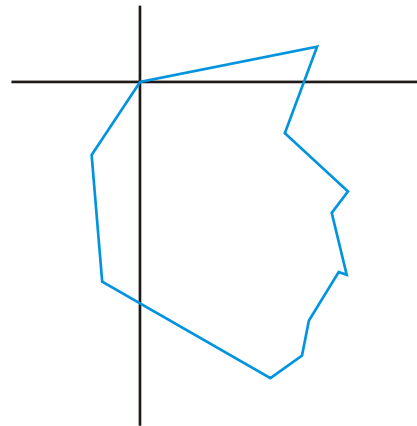


ATLAS DE CRECIMIENTO Y DESARROLLO CRANEOFACIAL DEL GUATEMALTECO INDIGENA

ATLAS OF CRANIOFACIAL GROWTH
AND DEVELOPMENT OF GUATEMALAN
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Estándares Cefalométricos del Grupo de Estudio de
Crecimiento del Aparato Estomatognático del Guatemalteco.

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Reconocimientos:

Este trabajo de investigación longitudinal, no hubiera sido posible realizarlo sin la cooperación y participación de muchas personas e Instituciones que también durante muchos años y con mucho entusiasmo han colaborado para poder terminarlo y así colaborar con el campo de la estomatología en la comprensión de algunos de los procesos de crecimiento y desarrollo Craneofacial de nuestra población.

Como se comprenderá, la lista es bastante extensa, pero quisiéramos expresar nuestra gratitud a las siguientes personas:

En primer lugar a todos los miembros de la muestra de población estudiada ya que ellos con mucho entusiasmo llegaron durante todos los años que duro el presente estudio longitudinal para que se pudieran tomar los registros pertinentes al mismo, y a sus respectivos padres de familia.

A los profesores del Departamento de Educación Odontológica y del Multicentro de Innovaciones Estomatológicas de la Facultad de Odontología de la Universidad de San Carlos que participaron en la toma de muestras del estudio

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Al Reverendo Gregorio Shaefer de la Parroquia de San Lucas Tolimán, Sololá
Dr. Chester Summners (capacitación de personal en Guatemala)

Al programa de Becas Fullbright para Investigación del Gobierno de los Estados Unidos de América que nos dio la oportunidad de ir a procesar las ciento ochenta y nueve variables cefalométricas, en el Centro de Crecimiento y Desarrollo Humano de la Universidad de Michigan en 1,987.

Al Ministerio de Educación, Ciencia y Cultura (MONBUSHO) del Gobierno de Japón, por medio de su programa de becas para investigación, y que también dio la oportunidad al Dr. José A. Andrino de efectuar la elaboración de diagramas de perfil del complejo craneofacial de la muestra de población guatemalteca no indígena en el Centro de Computo del Primer Departamento de Ortodoncia de la Facultad de Odontología de la Universidad Médica y Dental de Tokio, Japón, en 1,991.

A todo el personal del Centro de Crecimiento y Desarrollo Humano de la Universidad de Michigan, U.S.A.

A todo el personal del Centro de Computo del Primer Departamento de Ortodoncia de la Facultad de Odontología de Universidad Médica y Dental de Tokio, Japón.

José Andrino, dedico este Atlas :

A DIOS: Porque el Atlas tampoco sería posible
sin su intervención.

A MIS HIJOS: JOSE ERNESTO ANDRINO HERNANDEZ
ANA CAROLINA ANDRINO HERNANDEZ

Con cariño y como ejemplo de constancia.

A MI ESPOSA: ANA MARIA HERNANDEZ DE ANDRINO

Con amor y porque juntos lleguemos a la
meta que nos hemos propuesto.

A MIS PADRES: ESTEBAN ANDRINO ROCHE
LAURA CAROLINA ALVAREZ DE ANDRINO
Como un reconocimiento a sus esfuerzos y
sacrificios.

A GUATEMALA.

Al Prof. ROBERT E. MOYERS, D.D.S.; Ph. D.:
Center for Human Growth and Development
University of Michigan, U.S.A.

A su memoria y por su ejemplo
de lo que es ser un verdadero maestro.

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1. INTRODUCCION

En 1974, el Centro de Crecimiento y Desarrollo Humano de la Universidad de Michigan, Estados Unidos de América, publicó el primer Atlas de Crecimiento Craneofacial, de una muestra de población caucásica. (1) Este Atlas se ha empleado desde entonces como referencia en muchas partes del mundo para el estudio, Enseñanza-Aprendizaje y solución de problemas de crecimiento y desarrollo Craneofacial, dentro de ellos los tratamientos de Ortodoncia.

El Departamento de Educación Odontológica de la Facultad de Odontología de la Universidad de San Carlos de Guatemala, para evitar la dependencia y el uso de patrones cefalométricos que no corresponden a la población guatemalteca, A propuesta del Dr. Carlos Enrique Pomés, se realizó un estudio longitudinal de Crecimiento y Desarrollo Craneofacial en una muestra de población no indígena representativa de una comunidad rural de Guatemala.

Antes del inicio de este proyecto, en una Primera Fase se requirió y se recibió asistencia del Centro de Crecimiento y Desarrollo Humano de la Universidad de Michigan por medio del Prof. Robert E. Moyers y también del Dr. Chester Summers, en cuanto a planificación, ejecución y evaluación del Proyecto.

En la Segunda Fase, se obtuvieron dos Becas Fullbright de Investigación otorgadas por el gobierno de los Estados Unidos de América para procesar electrónicamente los datos de los cefalogramas, obteniéndose como resultado las tablas y gráficas de 189 variables cefalométricas de la muestra de estudio de la población.

Posteriormente en la Tercera Fase, como resultado de un proyecto cooperativo entre la Universidad Médica y Dental de Tokio, Japón y la Universidad de San Carlos de Guatemala, y con los recursos y equipos de computación del Primer Departamento de Ortodoncia de la Facultad de Odontología de la Universidad Medica y Dental de Tokio, Japón; y también por medio de una beca de investigación otorgada por el gobierno de Japón, se obtuvieron diagramas de tamaño natural promedio de los componentes craneofaciales estudiados.

2. FORMULACION DEL PROBLEMA

En nuestro medio, el tratamiento Odontológico y de Ortodoncia ofrecido a la población, es en base a medidas cefalométricas determinadas para otros grupos étnicos, y aplicadas a los pacientes de Guatemala. Dichas medidas, lógicamente no pueden ser referencia para el estudio, enseñanza-aprendizaje y solución de problemas de crecimiento y desarrollo craneofacial de la población de Guatemala.

3. PROPOSITO DEL ATLAS

Desde el punto de vista Académico:

Proporcionar material de referencia para el estudio, Enseñanza-Aprendizaje, Servicio y formulación de soluciones para los problemas del Sistema Estomatognático de la población de Guatemala, con datos propios y originales, que evitan la dependencia y el uso de patrones cefalométricos foráneos establecidos para otros grupos étnicos.

Desde el punto de vista Interdisciplinario:

La creación de nuevo conocimiento en Crecimiento Craneofacial del Guatemalteco tiene importancia significativa en otros campos como la Medicina, Antropología Física y Social, y teorías del origen del hombre en el continente Americano.

Desde el punto de vista Internacional:

Esta publicación es importante y significativa ya que con ella se podrán comparar la muestra guatemalteca con muestras extranjeras, para la búsqueda de posibles diferencias o similitudes, tanto en crecimiento como en el desarrollo craneofacial del ser humano.

4. METODO Y MATERIALES

MUESTRA DE LA POBLACION:

La comunidad seleccionada para el presente estudio de investigación longitudinal fue la de San Lucas Tolimán en el Departamento de Sololá. La muestra de población indígena corresponde a descendientes de los Mayas y actualmente del grupo étnico Tzutuhil; con las siguientes características antropológicas(3,4,): Nariz ancha y delgada, labios delgados, prognatismo pronunciado, ojos oblicuos, pelo lacio y ralo, sin barba ni vello en el cuerpo, cabeza redonda (braquicefalia), piel oscura o bronceada.

Por ser una comunidad rural de Guatemala, la proporción de indígenas es mayor en comparación con la población no indígena, motivo por el cual, la muestra representativa está compuesta por cuarenta y seis individuos, veintitrés del sexo masculino y veintitrés del sexo femenino. El rango de tiempo del estudio fué desde los cinco hasta los catorce años de edad.

Los materiales que se tomaron anualmente, comprenden: Radiografías cefalométricas laterales, modelos de estudio, radiografías de mano, modelos dentales del maxilar superior y del maxilar inferior, fotografías intraorales y faciales, y registros de la ficha clínica para el índice de necesidades del servicio estomatológico del Dr. Chester Summers. Los datos para el presente estudio fueron tomados exclusivamente de las radiografías cefalométricas laterales. Ninguno de los miembros de la muestra de población estudiados estuvo bajo tratamiento de ortodoncia durante el tiempo que duró esta investigación. Todos los registros fueron tomados anualmente y en fechas similares.

TRAZADO DE LOS CEFALOGRAMAS: Cada radiografía lateral cefalométrica, fue trazada siguiendo los lineamientos que se usaron en el Atlas publicado por el Centro de Crecimiento y Desarrollo Humano de la Universidad de Michigan, luego, se sometió a uno de los investigadores a un método de calibración estadística, para luego proceder a digitalizar las variables cefalométricas y almacenarlas electrónicamente en los equipos de computación de la Universidad de Michigan, bajo la supervisión del Ingeniero Richard Miller y del Bioestadista Tom Ten Have.

Luego que las variables cefalométricas se habian generado, se computaron mediciones angulares y lineales. Estas mediciones incluyen distancias, ángulos, distancias perpendiculares, diferencias, sumas, multiplicaciones y adiciones de las distintas variables cefalométricas que se incluyen en el presente estudio.

Para el análisis estadístico de las variables, se utilizó el paquete estadístico que emplean en la Universidad de Michigan (MIDAS) y así se procedió a obtener tablas estadísticas por edad y sexo. Luego se procedió a la elaboración de las gráficas correspondientes a cada tabla de valores para cada una de las 189 variables cefalométricas (las variables 1 a 74 son de tipo

angular y las del 75 a la 188 son lineales en mm.). Las muestras de población masculina y femenina fueron comparadas por medio de la prueba de “t” para evaluar la significancia de la diferencia entre dos medias. El nivel de significancia es de 0.05 y 0.02.

ERROR DEL METODO: La distancia del generador de rayos X al plano sagital medio de la cabeza de la persona ES de 152.25 cm. y la distancia del plano sagital hasta la película radiográfica es de 17.84. Estos factores produjeron un 12.7 % de agrandamiento de todas las mediciones lineales que se presentan en el Atlas.(1)

ELABORACION DE LOS DIAGRAMAS DEL COMPLEJO CRANEOFACIAL: Para la obtención de los diagramas, se utilizaron los datos digitalizados (raw data) en el Centro de Crecimiento y Desarrollo Humano de la Universidad de Michigan y se utilizo el equipo y programas de computación del Primer Departamento de Ortodoncia de la Facultad de Odontología de la Universidad Médica y Dental de Tokio, Japón; y se generaron diagramas del tamaño natural promedio del complejo Craneofacial, perfil del tamaño natural promedio del complejo Craneofacial, y los diagramas del tamaño natural promedio individuales de maxilar superior e inferior. Todos los diagramas están clasificados por edad y sexo respectivamente, y basados en los puntos de referencia cefalométricos del estudio del Dr. Sakamoto (2).

5. UTILIZACION DEL ATLAS

5.1 Cada una de las 189 variables cefalométricas, se presenta con sus componentes de manera similar al Atlas de la Universidad de Michigan (1), con la finalidad de que sus resultados y gráficas se puedan comparar de una manera fácil y rápida. La figura 1 es un ejemplo de una página reducida del Atlas. Cada página contiene algunos componentes que a continuación se describen:

(A) En la esquina superior derecha de cada página está la descripción de cada variable cefalométrica, también se define si es una variable angular o lineal.

(B) En la esquina superior izquierda de cada página, se presenta un diagrama para una mejor comprensión de la variable que se describe en la esquina superior derecha.

(C) En la porción media de cada página, se presentan las tablas estadísticas de cada variable, por edad, sexo y el análisis estadístico incluye el rango de valores mínimo y máximo, la media, desviación estándar, skewness y kurtosis para cada edad.

(D) Una columna de asteriscos puede aparecer entre las tablas, la presencia de un solo asterisco en la línea de una edad en particular indica que la prueba “t” que compara las muestras masculina y femenina es significativa a un nivel de 0.05. La presencia de dos asteriscos indica que dicha prueba es significativa a un nivel de 0.02. Algunas variables no presentan dimorfismo sexual y por lo tanto no aparecen asteriscos.

(E) La gráfica que aparece en la parte inferior de cada variable presentada, representa los valores del grupo masculino y femenino trazados por edad. El trazado del eje vertical ha sido separado para cada variable cefalométrica en intervalos de 0.5, 1,2, o hasta 5 unidades.

5.2 Los diagramas del complejo maxilofacial se clasificaron en grupos de acuerdo a edad y sexo, utilizando los cincuenta y siete puntos cefalométricos del atlas. Tomando como referencia para su presentación el plano 4 (plano de Frankfort) trasladado al punto No. 35 (Sella).

5.3 Los diagramas del maxilar superior se clasificaron en grupos de acuerdo a edad y sexo, utilizando 11 puntos cefalométricos y se presentan tomando como referencia el plano 5 (plano palatal).

5.4 Los diagramas del maxilar inferior se clasificaron en grupos de acuerdo a edad y sexo, utilizando 19 puntos cefalométricos y se presentan tomando como referencia el plano 8 (plano mandibular).

5.5 Los diagramas del perfil cefalométrico se clasificaron en grupos de acuerdo a edad y sexo, utilizando 12 puntos cefalométricos. Tomando como referencia para su presentación el plano 4 (plano de Frankfort) trasladado al punto No. 35 (Sella).

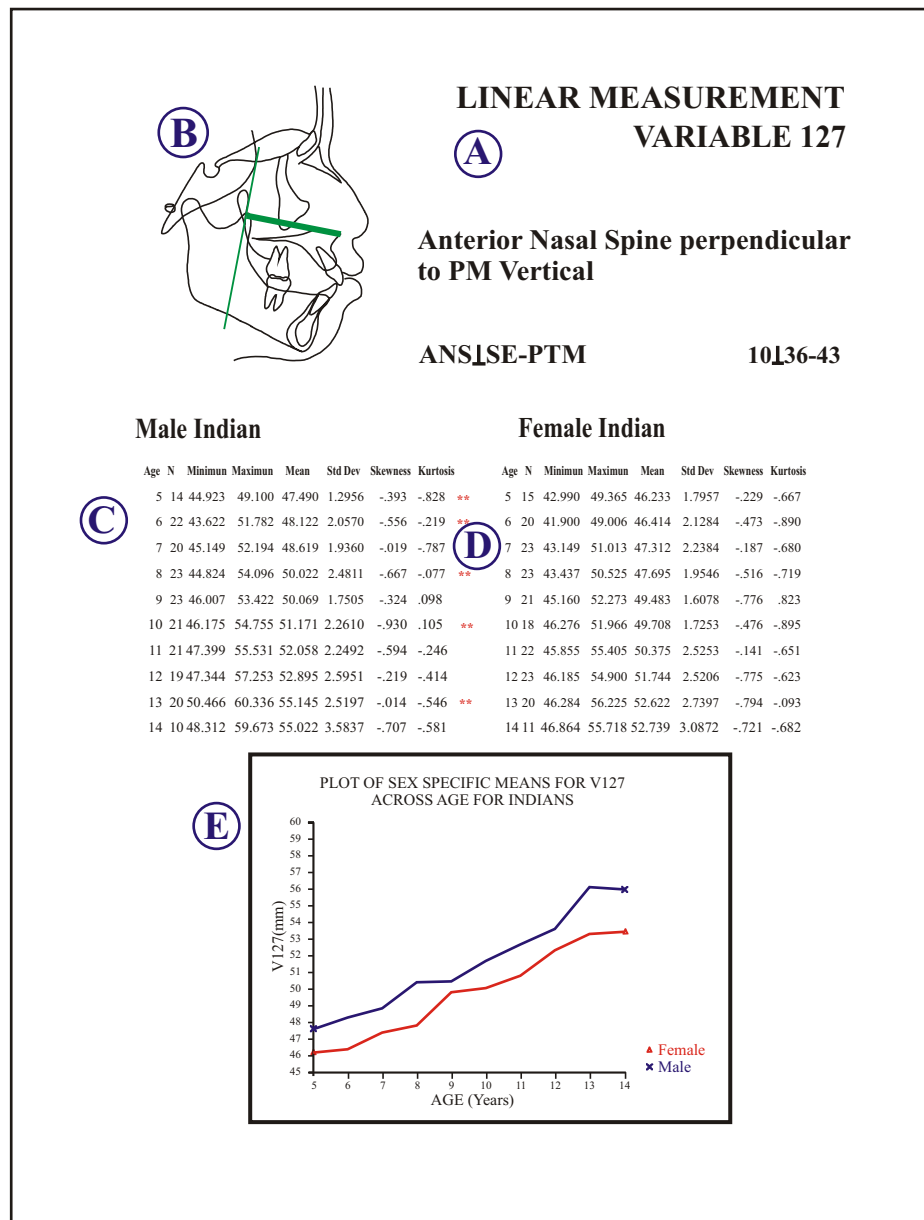
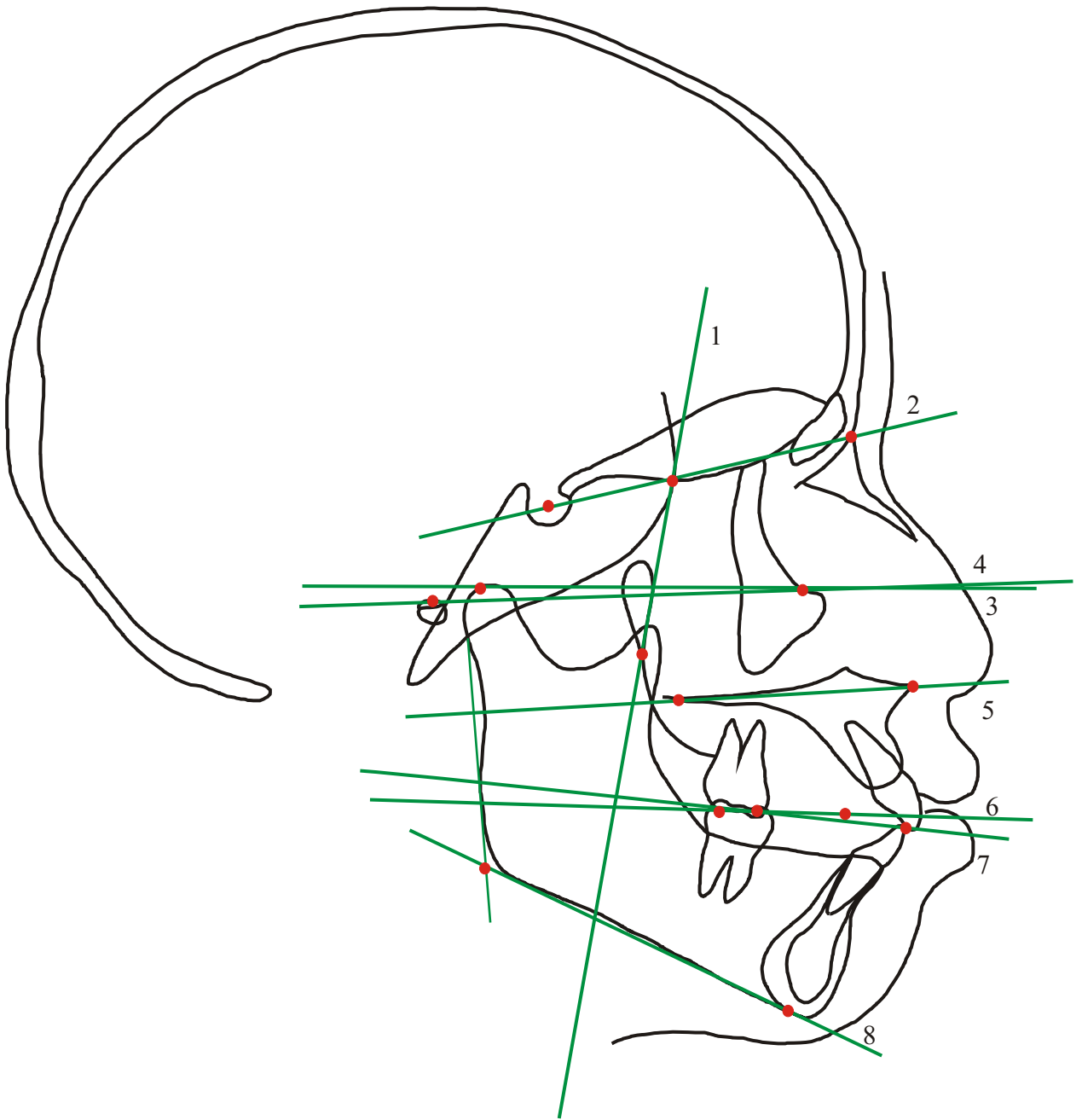


Figura 1. Muestra de una página del atlas

6. PLANOS CEFALOMETRICOS (1)

Los siguientes planos se han utilizado en todo el Atlas:

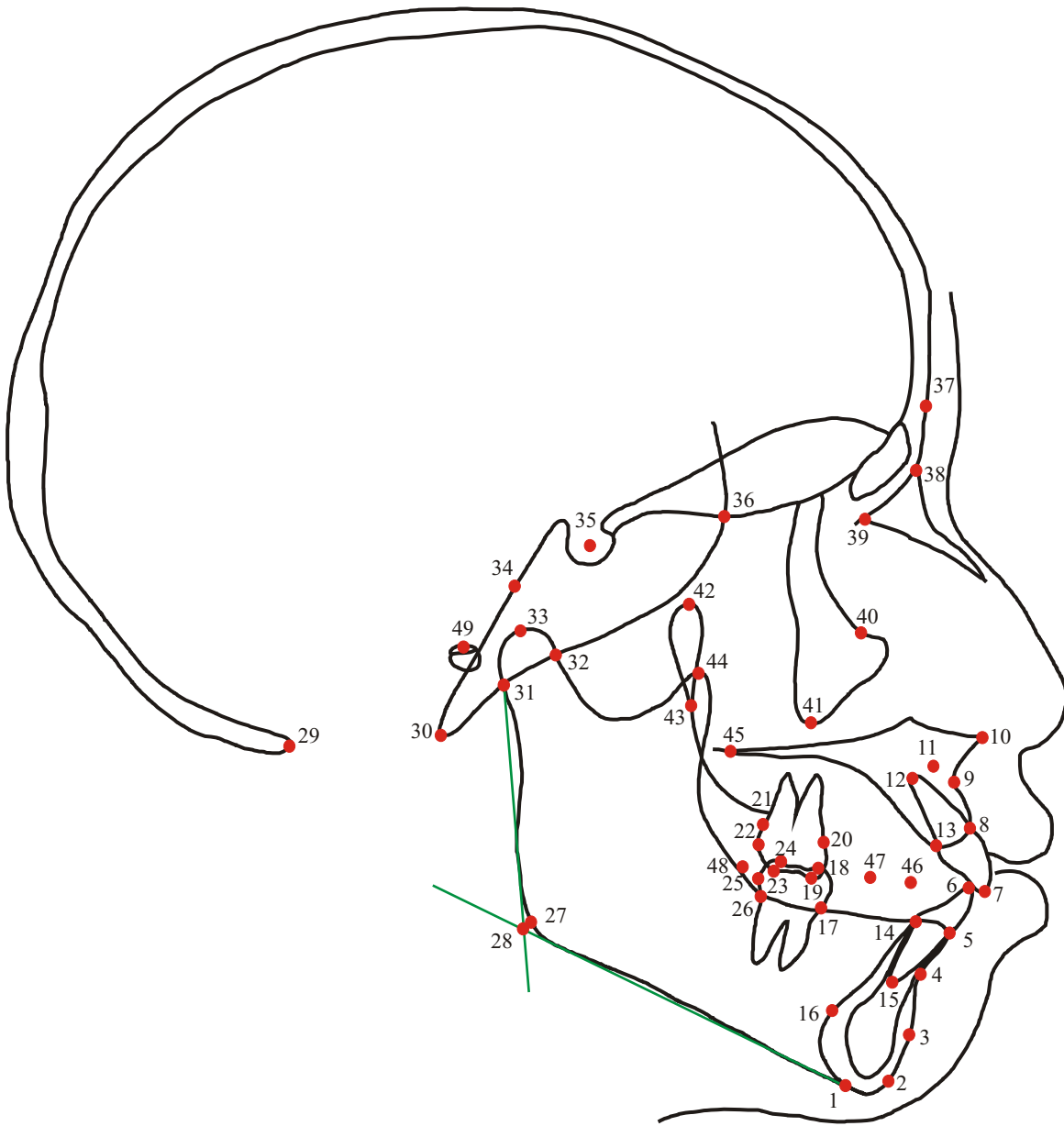
- | | |
|----------------------------|---|
| 1) PM VERTICAL | Fisura pterigomaxilar inferior - Punto de Registro del etmoides.
PTM-SE (43-36). |
| 2) PLANO SILLA-NASION | Silla - Nasion.
S - N (35-38). |
| 3) PLANO CONDILAR | Cóndilo - Orbital.
CO - OR (33-40). |
| 4) PLANO DE FRANKFORT | Porion - Orbital.
PO - OR (49-40). |
| 5) PLANO PALATAL | Espina nasal anterior - Espina nasal Posterior.
ANS - PNS (10-45). |
| 6) PLANO OCLUSAL FUNCIONAL | Punto de contacto mesial premolar - Vértice de la cúspide distal de molar Superior.
PMC - UDT (46-23). |
| 7) PLANO OCLUSAL DE DOWNS | Punto anterior de Downs - Punto posterior de Downs.
ADP - PDP (56-57). |
| 8) PLANO MANDIBULAR | Menton - Intersección gonial.
ME - GOI (1-28). |



**PLANOS CEFALOMÉTRICOS
(1-8)**

7. DEFINICION DE PUNTOS CEFALOMETRICOS DE REFERENCIA (1)

<u>Número</u>	<u>Código</u>	<u>Definición</u>
1	ME	MENTON: El punto más inferior del contorno de la sínfisis.
2	GN	GNATION: El punto más anterior de la Símfisis mandibular. Se determina bisectando el ángulo formado por el plano mandibular y la línea entre Pogonio y Nasion.
3	PG	POGONIO: Punto más anterior de la sínfisis mandibular Determinado por una tangente desde Nasion.
4	B	PUNTO "B": El punto más posterior a una línea desde Infradental a Pogonion en el contorno de la sínfisis de la mandíbula. El punto "B" debe estar entre el tercio apical de las raíces incisales. Cuando no hay concavidad en esta región y no se puede determinar el punto "B" por el método descrito, entonces se selecciona con la ayuda de radiografías anteriores y posteriores, dado que los dientes en erupción pueden en ocasiones ocultar la concavidad anterior de la mandíbula.
5	ID	INFRADENTAL: El punto superior y anterior en el hueso alveolar de la mandíbula en su contacto con el incisivo central mandibular.
6	LIE	BORDE INCISAL DEL INCISIVO INFERIOR: El vértice incisal del incisivo central mandibular.
7	UIE	BORDE INCISAL DEL INCISIVO SUPERIOR: El vértice incisal del incisivo central maxilar.
8	SD	SUPRADENTAL: El punto más anterior e inferior del hueso alveolar del maxilar en su contacto con el incisivo central superior.
9	A	PUNTO "A": El punto más posterior en la concavidad anterior del maxilar superior, desde la línea de la espina nasal anterior y supradental.
10	ANS	ESPINA NASAL ANTERIOR: La cresta del paladar duro en el margen inferior de la apertura nasal anterior.
11	L	PUNTO "L": Representa un punto en la superficie anterior de la imagen de la lámina labial en la región del ápice del incisivo central maxilar. Cuando los incisivos permanentes (antes de la erupción) están posicionados entre el hueso alveolar con sus coronas en la región de la base apical, el punto "L" se toma 1 o 2 milímetros anteriores a la altura de el contorno de la corona del diente y relacionada a una línea trazada desde supradental y paralela con el axis del incisivo central. Cuando los incisivos permanentes ya han erupcionado y sus raíces no están totalmente formadas, el punto "L" se localiza al final de la raíz y axialmente de una línea hasta supradental. Cuando la raíz está completa, se localiza desde la línea axial con el vértice radicular.

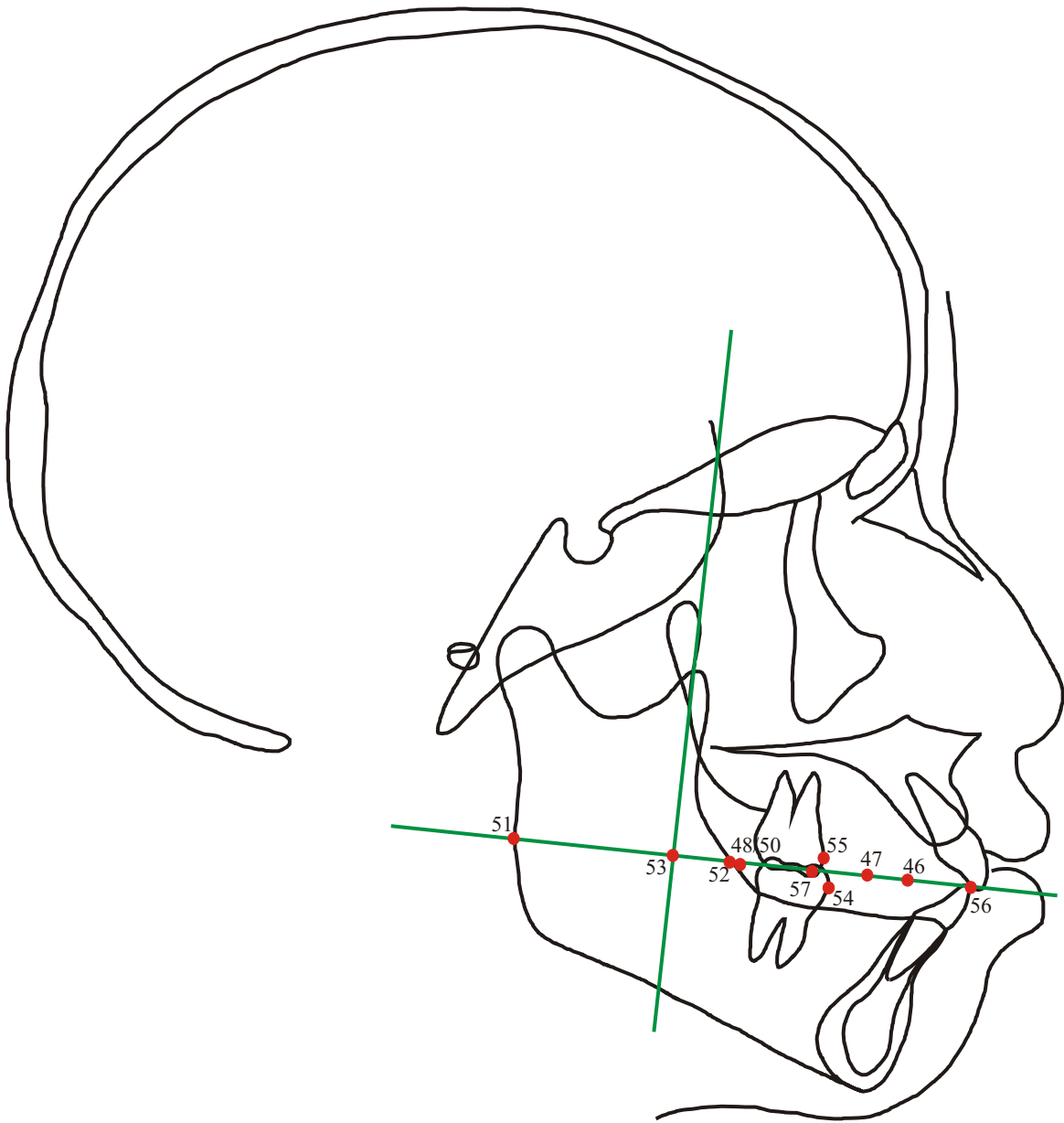


**PUNTOS CEFALOMÉTRICOS DE REFERENCIA
(1-49)**

Número	Código	Definición
12	UIA	APICE DEL INCISIVO SUPERIOR: El vértice de la raíz del incisivo central maxilar. En los casos en que la raíz no está completa, se marca el punto medio en el vértice de la raíz que se esta formando.
13	UIB	PUNTO DE CONTACTO CON EL HUESO LINGUAL DEL INCISIVO SUPERIOR: Punto de contacto del hueso alveolar lingual con el incisivo central maxilar. Este punto generalmente corresponde con la unión cemento-amelida lingual (CEJ).
14	LIB	PUNTO DE CONTACTO CON EL HUESO LINGUAL DEL INCISIVO INFERIOR: Punto de contacto del hueso alveolar lingual con el incisivo central inferior. Este punto generalmente corresponde con la unión cemento-amelida lingual (CEJ).
15	LIA	APICE DEL INCISIVO INFERIOR: El vértice de la raíz del incisivo central mandibular. Cuando la raíz no se ha completado de formar, se marca el punto medio de la raíz en crecimiento.
16	SYMP	PUNTO LINGUAL DE LA SINFISIS: Es un punto construido y utilizado para determinar el ancho de la sínfisis desde Pogonion. El punto SYMP se localiza en la intersección de una línea desde Pogonion y paralela con el plano mandibular con el borde posterior de la sínfisis de la mandíbula.
17	LMJ	UNION CEMENTO-AMELIDA MESIAL DE LA MOLAR INFERIOR: Es la unión cemento-amelida anterior de la primera molar mandibular.
18	LMT	VERTICE DE LA CUSPIDE MESIAL DE LA MOLAR INFERIOR: El vértice de la cúspide anterior de la primera molar mandibular.
19	UMT	VERTICE DE LA CUSPIDE MESIAL DE LA MOLAR SUPERIOR: El vértice de la cúspide anterior de la primera molar maxilar.
20	UMJ	UNION CEMENTO-AMELIDA MESIAL DE LA MOLAR SUPERIOR: Es la unión cemento-amelida anterior de la primera molar maxilar.
21	UDJ	UNION CEMENTO-AMELIDA DISTAL DE LA MOLAR SUPERIOR: Es la unión cemento-amelida posterior de la primera molar maxilar.
22	UDC	PUNTO DE CONTACTO DISTAL DE LA MOLAR SUPERIOR: El contacto posterior (del contorno de la altura) de la primera molar maxilar.
23	UDT	VERTICE DE LA CUSPIDE DISTAL DE LA MOLAR SUPERIOR: El vértice de la cúspide posterior de la primera molar maxilar.

Número	Código	Definición
24	LDT	VERTICE DE LA CUSPIDE DISTAL DE LA MOLAR INFERIOR: El vértice de la cúspide posterior de la primera molar mandibular.
25	LDC	PUNTO DE CONTACTO DISTAL DE MOLAR INFERIOR: El punto de contacto posterior de la primera molar mandibular.
26	LDJ	UNION CEMENTO-AMELIDA DISTAL DE LA MOLAR INFERIOR: Es la unión cemento-amelida posterior de la primera molar mandibular.
27	GO	GONION: Punto medio de el ángulo de la mandíbula. Se encuentra bisectando el ángulo formado por el plano mandibular y el plano hasta Articulare (AR). Este último plano es posterior y a lo largo del borde posterior de la rama mandibular, desde (AR) hasta su intersección con el plano mandibular.
28	GOI	INTERSECCION GONIAL: La intersección del plano mandibular con plano hasta Articulare(AR). Este último plano es posterior y a lo largo del borde posterior de la rama mandibular, desde (AR) hasta su intersección con el plano mandibular.
29	OP	OPISTHION: El punto sagital medio posterior en el margen posterior del foramen magnum.
30	BA	BASION: El punto más posterior e inferior en el margen anterior del foramen magnum.
31	AR	ARTICULARE (Articulare Posterior): El punto de intersección de la superficie inferior de la base craneal y el promedio de las superficies posteriores de los cóndilos mandibulares.
32	AA	ARTICULARE, ANTERIOR: El punto de intersección de la superficie inferior de la base craneal y el promedio de las superficies anteriores de los cóndilos mandibulares.
33	CO	CONDYLION: El punto más superior y posterior en la curvatura promedio de los contornos de las cabezas de los cóndilos mandibulares. Se determina como un punto tangente a una línea perpendicular a los bordes anterior y posterior de la cabeza del cóndilo. Entonces, el punto CO está localizado como el punto axial más superior de la cabeza condilar en lugar de que sea el punto más superior del cóndilo en si.
34	SOS	CENTRO DE LA SINCONDROSIS ESFENO-OCCIPITAL: El punto medio de la unión cartilaginosa del borde anterior de la porción basilar del hueso occipital y la superficie posterior del cuerpo del hueso esfenoides. En los casos en que no se aprecia bien la sincondrosis, se localiza comparando con cefalogramas previos o posteriores.
35	S	SILLA TURCA: El centro de la fosa pituitaria del hueso esfenoides. Se determina por inspección.

Número	Código	Definición
36	SE	PUNTO DE REGISTRO DEL ETMOIDES: La intersección del plano etmoidal con el promedio del ala mayor del esfenoides.
37	GB	GLABELLA: La altura de la curvatura del hueso que cubre el seno frontal. En los casos que no se aprecia bien este punto, se utiliza el perfil del tejido suave que recubre dicha región.
38	N	NASION: La unión de la sutura frontonasal, en el punto más posterior sobre la curva en el puente nasal.
39	FMN	SUTURA NASAL FRONTOMAXILAR: La unión de los huesos nasal maxilar y frontal.
40	OR	ORBITALE: El punto más inferior del promedio de los bordes derecho e izquierdo del hueso de la órbita.
41	IZ	ZIGOMA INFERIOR: El punto más inferior del promedio del contorno derecho e izquierdo del zigoma.
42	PTMS	FISURA PTERIGOMAXILAR, SUPERIOR: El punto más superior del promedio del contorno derecho e izquierdo de la fisura pterigomaxilar.
43	PTM	FISURA PTERIGOMAXILAR, INFERIOR: El punto más inferior del promedio del contorno derecho e izquierdo de la fisura pterigomaxilar.
44	CP	PROCESO CORONOIDES: El punto más superior del promedio del contorno derecho e izquierdo de el proceso coronoides. Determinado como el punto tangente a un trazo perpendicular al plano del borde anterior de la rama mandibular.
45	PNS	ESPINA NASAL POSTERIOR: El punto más posterior en el plano sagital en el paladar duro.
46	PMC	PUNTO DE CONTACTO MESIAL PREMOLAR: Punto establecido por la intersección de una línea a lo largo del contacto oclusal de las premolares superiores e inferiores y una línea perpendicular a ella hasta el promedio del contacto anterior de las primeras premolares maxilares con el canino maxilar.
47	PDC	PUNTO DE CONTACTO DISTAL PREMOLAR: Se localiza a lo largo de la misma línea de oclusión premolar como en el punto 46 (PMC) pero en el punto de una línea perpendicular entre el contacto distal de la primera premolar superior. La distancia de PMC a PCD deber ser igual al promedio del diámetro mesio-distal de la primera premolar superior.



**PUNTOS CEFALOMÉTRICOS DE REFERENCIA
(46-57)**

Número	Código	Definición
48	TP	PUNTO TRICHOTOMUS: Este punto tiene tres métodos de interpretaciones para su determinación: a) Cuando las primeras molares permanentes están ausentes (fuera de oclusión) y las segundas molares primarias son las que se han trazado, el punto 48 se selecciona en la línea formada por los puntos 46 y 47 y en la región del borde anterior de la rama mandibular. Su presencia en caso es para indicar que dientes primarios en lugar de dientes permanentes han sido trazados; b) Cuando las primeras molares permanentes han eruputado y se han trazado, el punto 48(TP) no se marca, excepto por lo que sigue; c) Cuando las segundas molares permanentes han eruputado y en completa oclusión, el punto 48 se marca en el punto de contacto distal de las mismas.
49	PO	PORION: El punto medio de la línea que conecta el punto más superior de la radiopacidad generada por cada uno de los rodos auriculares del cefalómetro.
50	FPP	PUNTO DEL PLANO OCLUSAL FUNCIONAL: Este punto es determinado lógicamente y por lo tanto no es una referencia trazada. Se usa para definir la localización posterior del plano de oclusión funcional, y consecuentemente su valor está relacionado con la presencia o ausencia del punto 48 (TP). a) Si el punto 48 está presente y la persona tiene menos de 9 años de edad, el punto 50 (FPP) asume el mismo que el punto 48. b) En todos los demás casos, el punto 50 (FPP) toma el valor de el punto 23 (UDT).
51	PB	BORDE POSTERIOR DE LA RAMA: Se define como la intersección de el plano oclusal funcional con el borde posterior de la rama mandibular.
52	AB	BORDE ANTERIOR DE LA RAMA: Se define como la intersección de el plano oclusal funcional con el borde anterior de la rama mandibular.
53	LT	TUBEROSIDAD LINGUAL: Se deriva por la extensión de la distancia entre los puntos 51 y 52 y anterior sobre el plano oclusal funcional desde la intersección de este último y la línea vertical RA (RAMUS en el análisis del Dr. Enlow).
54	LMC	CONTACTO MESIAL DE LA MOLAR INFERIOR: El contacto mesial (del contorno de la altura coronal) de la primera molar mandibular y es relacionado con el FOP (plano oclusal funcional).
55	UMC	CONTACTO MESIAL DE LA MOLAR SUPERIOR: El contacto mesial (del contorno de la altura coronal) de la primera molar maxilar y es relacionado con el FOP (plano oclusal funcional).
56	ADP	PUNTO DOWNS ANTERIOR: El punto medio en la línea que conecta los puntos de referencia 6 y 7 (LIE y UIE). Este representa el punto anterior por donde pasa el Plano Oclusal de Downs.

Número	Código	Definición
57	PDP	PUNTO DOWNS POSTERIOR: El punto medio en la línea que conecta los puntos de referencia 18 y 19 (LMT y UMT). Este representa el punto posterior por donde pasa el Plano Oclusal de Downs.

5. UTILIZATION OF ATLAS (1)

5.1- Figure 1 is a reduced example or a typical text page. Each such page contains several components which are described below with reference to the figure.

A) An identification block appears in the upper right corner. It contains the complete designation of the measurement (e.g., Anterior Nasal Spine perpendicular to PM Vertical), its abbreviation (ANS \perp SE-PTM), and the landmark numbers involved in its computation. In addition, it contains a designation of the type of measurement (i.e., linear or angular) and the variable number (i.e. 127 in the figure). This number is useful in locating other tabled references to this variable.

B) A drawing in the upper left corner illustrates diagrammatically where the measurement is made. For linear measurements, a green line designates the measurement; for angular measurements, lines are drawn to show the construction of the angle.

C) Tabulated data is given for each sex. The quantities tabulated are the age of measurement (i.e. 5 to 14 years), the sample size at each age, the minimum and maximum values (the range), the estimated mean value at each age, the estimated standard deviation, the estimated skewness and the estimated kurtosis.

D) A column of asterisks (* or **) may appear between the male and female tabulations. The presence of a single asterisk on the line for a particular age indicates that the 2 sample t-test comparing the male and female samples was significant at the 0.05 level of significance. Two asterisks indicate that it was significant at the 0.02 level of significance. Some measurements show no sexual dimorphism so consequently no asterisks appear (1).

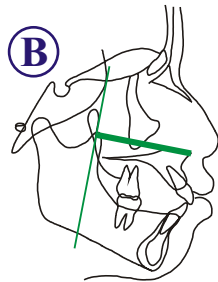
E) The graph at the bottom of the page shows the male and female mean values plotted against age. The plot characters for each sex are different. The scale on the vertical axis has been chosen separately for each variable with increments of 0.5, 1.2 or 5 units.

5.2- The maxilofacial complex diagrams were classified into groups according to age and sex. Using the 57 cephalometric landmarks. And they are presented utilizing as reference the cephalometric plane No.4 (Frankfort plane) and translated to the landmark number 35 (Sella).

5.3- The maxillary diagrams were classified into groups according to age and sex. Using 11 cephalometric landmarks and presented utilizing as reference the cephalometric plane number 5 (palatal plane).

5.4- The mandibular diagrams were classified into groups according to age and sex. Using 19 cephalometric landmarks and presented utilizing as reference the cephalometric plane number 8 (mandibular plane).

5.5- The profilograms were classified into groups according to age and sex. Using the 12 cephalometric landmarks. And they are presented utilizing as reference the cephalometric plane No.4 (Frankfort plane) and translated to the landmark number 35 (Sella).



**LINEAR MEASUREMENT
VARIABLE 127**

(A)

**Anterior Nasal Spine perpendicular
to PM Vertical**

ANSISE-PTM

10136-43

Male Indian

Female Indian

Male Indian								Female Indian								
Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis	Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis	
5	14	44.923	49.100	47.490	1.2956	-.393	-.828	**	5	15	42.990	49.365	46.233	1.7957	-.229	-.667
6	22	43.622	51.782	48.122	2.0570	-.556	-.219	**	6	20	41.900	49.006	46.414	2.1284	-.473	-.890
7	20	45.149	52.194	48.619	1.9360	-.019	-.787	**	7	23	43.149	51.013	47.312	2.2384	-.187	-.680
8	23	44.824	54.096	50.022	2.4811	-.667	-.077	**	8	23	43.437	50.525	47.695	1.9546	-.516	-.719
9	23	46.007	53.422	50.069	1.7505	-.324	.098		9	21	45.160	52.273	49.483	1.6078	-.776	.823
10	21	46.175	54.755	51.171	2.2610	-.930	.105	**	10	18	46.276	51.966	49.708	1.7253	-.476	-.895
11	21	47.399	55.531	52.058	2.2492	-.594	-.246		11	22	45.855	55.405	50.375	2.5253	-.141	-.651
12	19	47.344	57.253	52.895	2.5951	-.219	-.414		12	23	46.185	54.900	51.744	2.5206	-.775	-.623
13	20	50.466	60.336	55.145	2.5197	-.014	-.546	**	13	20	46.284	56.225	52.622	2.7397	-.794	-.093
14	10	48.312	59.673	55.022	3.5837	-.707	-.581		14	11	46.864	55.718	52.739	3.0872	-.721	-.682

(C)

(D)

(E)

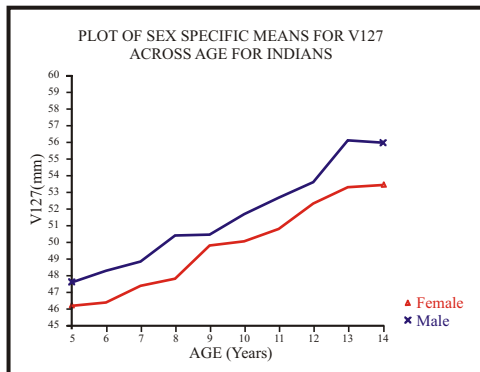
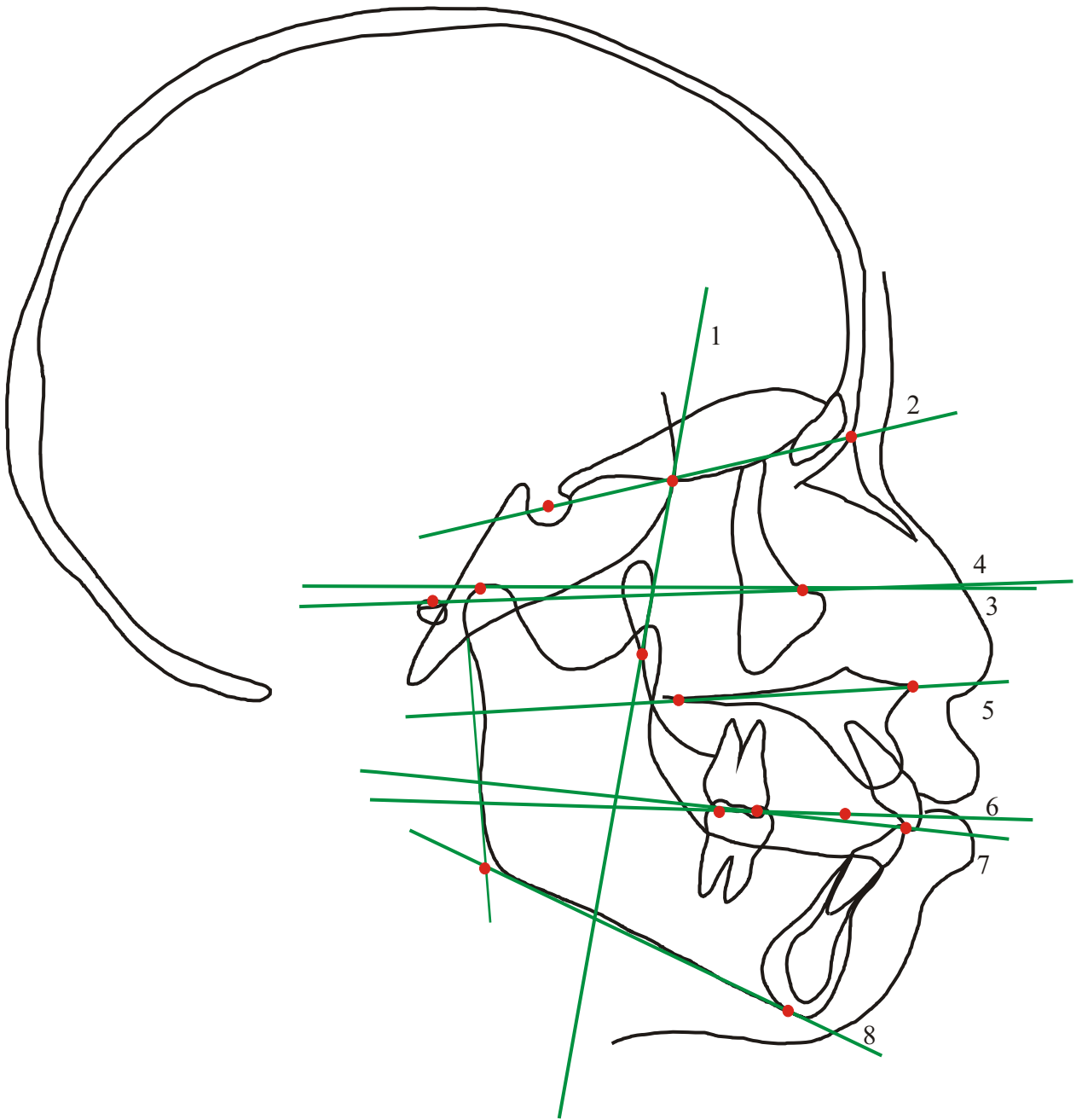


Figure 1. Sample page of Atlas.

6. CEPHALOMETRIC PLANES (1)

The following planes have been utilized throughout this atlas:

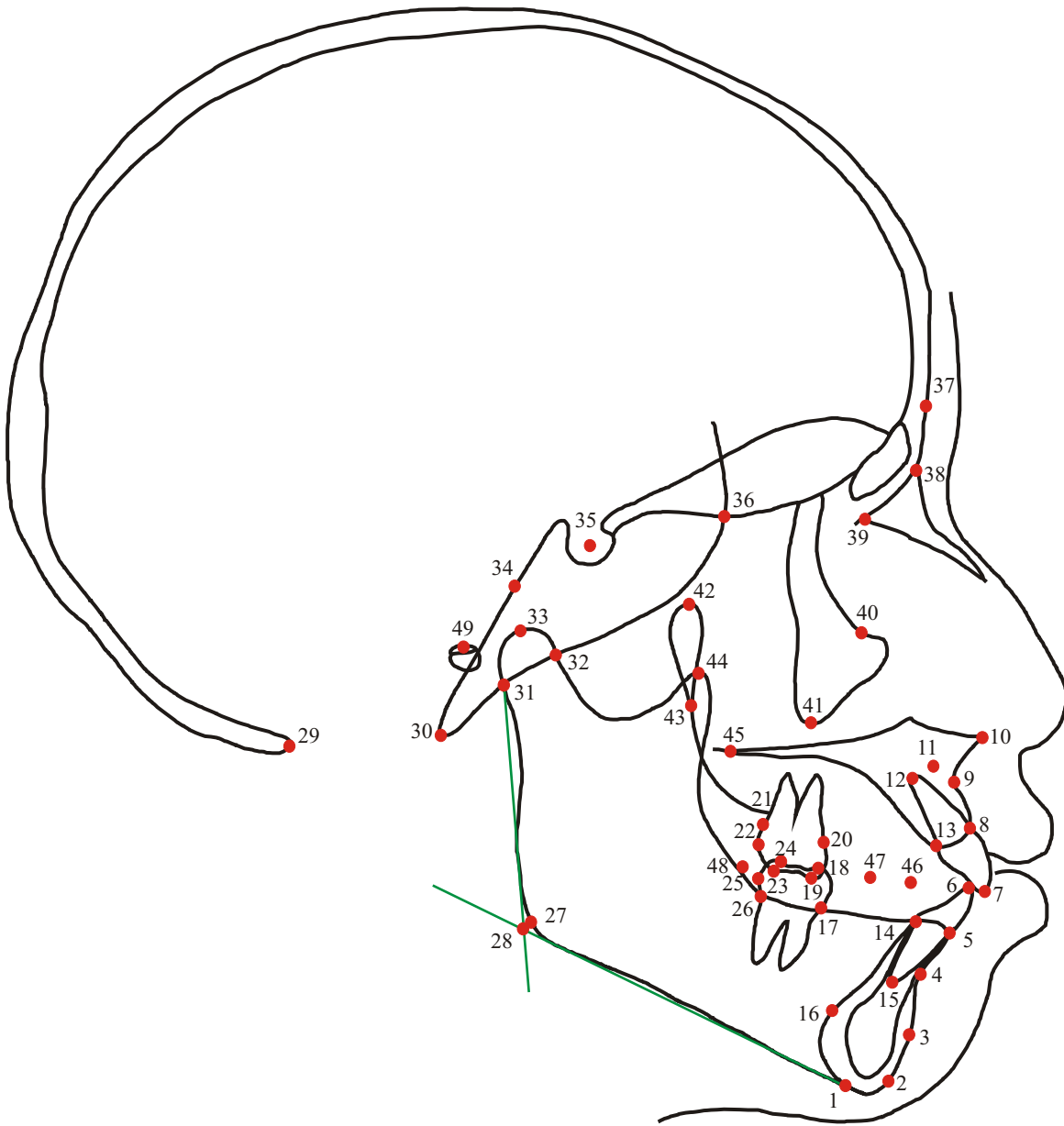
- | | |
|------------------------------|--|
| 1) PM VERTICAL | Pterygo-Maxillary Fissure, Inferior-Ethmoid Registration Point.
PTM-SE (43-36). |
| 2) SELLA-NASION PLANE | Sella-Nasion
S-N (35-38). |
| 3) CONDYLAR PLANE | Condylion-Orbitale
CO-OR (33-40). |
| 4) FRANKFORT PLANE | Porion-Orbitale
PO-OR (49-40). |
| 5) PALATAL PLANE | Anterior Nasal Spine-Posterior Nasal Spine
ANS-PNS (10-45). |
| 6) FUNCTIONAL OCCLUSAL PLANE | Premolar Mesial Contact Point- Upper Molar Distal Cusp Tip.
PMC-UDT (46-23). |
| 7) DOWNS OCCLUSAL PLANE | Anterior Downs Point-Posterior Downs Point
ADP-PDP (56-57). |
| 8) MANDIBULAR PLANE | Menton-Gonial Intersection
ME-GOI (1-28). |



**CEPHALOMETRIC PLANES
(1-8)**

7. LANDMARK DEFINITIONS (1)

<u>Number</u>	<u>Code</u>	<u>Definition</u>
1	ME	MENTON: The most inferior point on the symphyseal outline.
2	GN	GNATHION: The most anterior - inferior point on the contour of the bony chin symphysis. Determined by bisecting the angle formed by the mandibular plane and a line through Pogonion and Nasion.
3	PG	POGONION: The most anterior point on the contour of the bony chin. Determined by a tangent through Nasion.
4	B	B- POINT: The point most posterior to a line from Infradentale to Pogonion on the anterior surface of the symphyseal outline of the mandible. B-Point should be within the apical third of the incisor roots. When there is no curvature in this region and determination of B Point is not possible by the above method, it is chosen with the aid of preceding or succeeding films because erupting teeth obscure mandibular concavity on occasion.
5	ID	INFRADENTALE: The anterior superior point on the mandible at its labial contact with the mandibular central incisor.
6	LIE	LOWER INCISOR INCISAL EDGE: The incisal tip of the mandibular central incisor.
7	UIE	UPPER INCISOR INCISAL EDGE: The incisal tip of the maxillary central incisor.
8	SD	SUPRADENTALE: The most anterior inferior point on the maxilla at its labial contact with the maxillary central incisor.
9	A	A POINT: The most posterior point on the curve of the maxilla between the anterior nasal spine and supradentale.
10	ANS	ANTERIOR NASAL SPINE: The tip of the median, sharp bony process of the maxilla at the lower margin of the anterior nasal opening.



**CEPHALOMETRIC LANDMARKS
(1-49)**

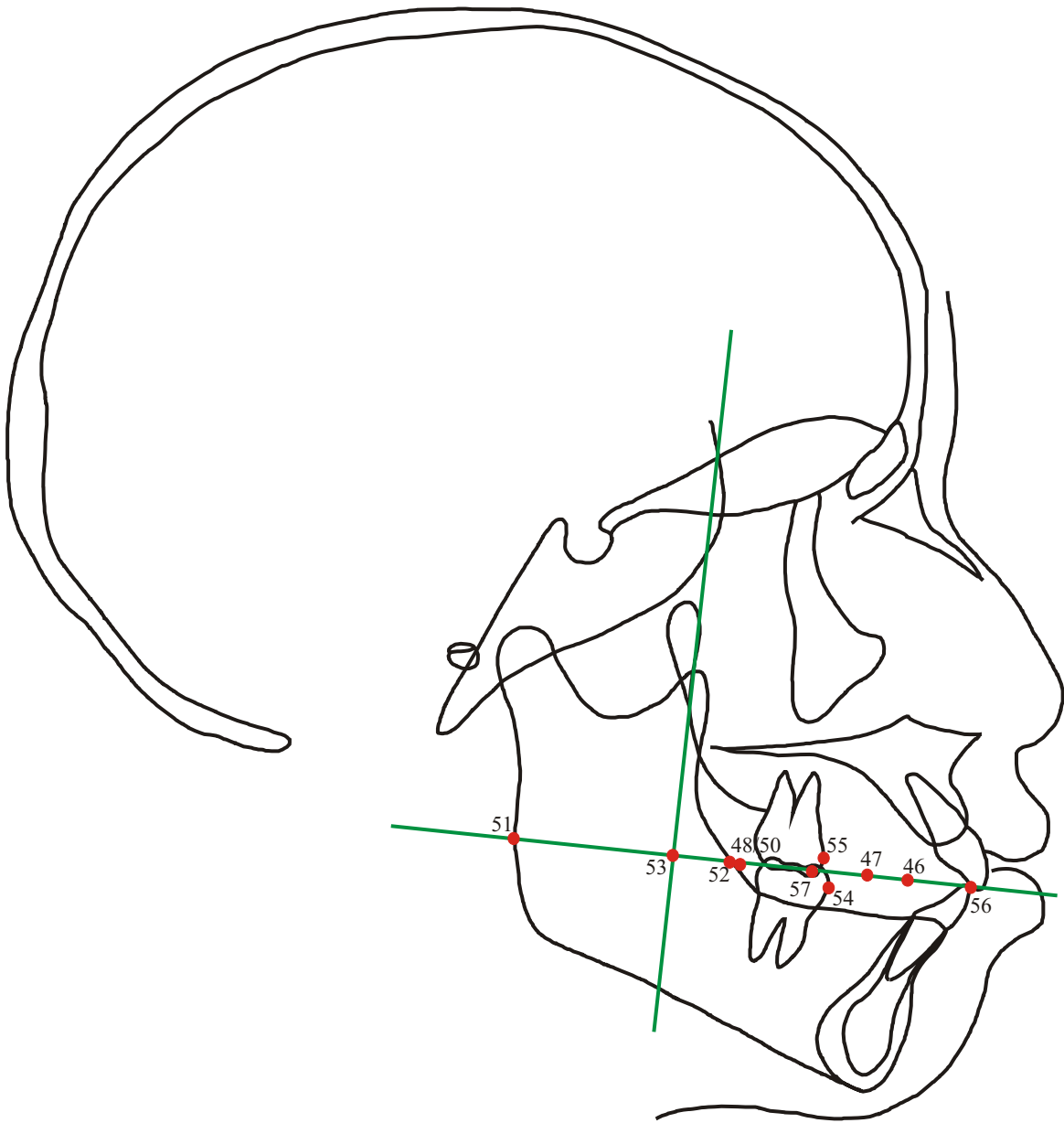
Number	Code	Definition
11	L	L POINT: Represents a point on the anterior surface on the image of the labial lamella at the apex region of the maxillary central incisor. When the permanent incisors (before eruption) are positioned within bone with their crown in the apical base region, L Point is taken 1-2 millimeters anterior to the height of contour of the crown relative to and on a line drawn through supradentale and parallel to the axis of the central incisor. When the permanent incisors are erupted and their roots are not fully formed, L Point is located at the root end along an axially placed line through supradentale. When the root is completed, L Point is located along the same axial line at the root tip. The procedure for locating L Point is well illustrated by Vander Linden, Amer. J. Orthodont., 59: 111-125,1971.
12	UIA	UPPER INCISOR APEX: The root tip of the maxillary central incisor. In cases where the root is not yet completed, the midpoint of the growing root tip is marked.
13	UIB	UPPER INCISOR LINGUAL BONY CONTACT POINT: The lingual contact of alveolar bone with the maxillary central incisor. This point generally corresponds with the lingual cemento enamel junction (CEJ).
14	LIB	LOWER INCISOR LINGUAL BONY CONTACT POINT: The lingual contact of alveolar bone with the mandibular central incisor. Generally corresponds with the lingual CEJ.
15	LIA	LOWER INCISOR APEX: The root tip of the mandibular central incisor. When the root is not yet completed, the midpoint of the growing root tip is marked.
16	SYMP	LINGUAL SYMPHYSEAL POINT: A constructed point used to determine symphyseal width at Pogonion. The SYMP Point is located at the intersection of a construction line through Pogonion and parallel with the mandibular plane with the posterior border of the mandibular symphysis.
17	LMJ	LOWER MOLAR MESIAL CEJ: The anterior cemento-enamel junction of the mandibular first molar.
18	LMT	LOWER MOLAR MESIAL CUSP TIP: The anterior cusp tip of the mandibular first molar.
19	UMT	UPPER MOLAR MESIAL CUSP TIP: The anterior cusp tip of the maxillary first molar.
20	UMJ	UPPER MOLAR MESIAL CEJ: The anterior cemento-enamel junction of the maxillary first molar.

Number	Code	Definition
21	UDJ	UPPER MOLAR DISTAL CEJ: The posterior cemento-enamel junction of the maxillary first molar.
22	UDC	UPPER MOLAR DISTAL CONTACT POINT: The posterior contact (height of contour) of the maxillary first molar.
23	UDT	UPPER MOLAR DISTAL CUSP TIP: The posterior cusp tip of the maxillary first molar.
24	LDT	LOWER MOLAR DISTAL CUSP TIP: The posterior cusp tip of the mandibular first molar.
25	LDC	LOWER MOLAR DISTAL CONTACT POINT: The posterior contact point of the mandibular first molar.
26	LDJ	LOWER MOLAR DISTAL CEJ: The posterior cemento-enamel junction of the mandibular first molar.
27	GO	GONION: The midpoint of the angle of the mandible. Found by bisecting the angle formed by the mandibular plane and a plane through Articulare, Posterior and along the portion of the mandibular ramus inferior to it.
28	GOI	GONIAL INTERSECTION: The intersection of the mandibular plane with a plane through Articulare, Posterior and along the portion of the mandibular ramus inferior to it.
29	OP	OPISTHION: The posterior midsagittal point on the posterior margin of foramen magnum.
30	BA	BASION: The most inferior, posterior point on the anterior margin of foramen magnum.
31	AR	ARTICULARE (Articulare Posterior): The point of intersection of the inferior cranial base surface and the averaged posterior surfaces of the mandibular condyles.
32	AA	ARTICULARE, ANTERIOR: The point of intersection of the inferior surface of the cranial base and the averaged anterior surfaces of the mandibular condyles.

Number	Code	Definition
33	CO	CONDYLION: The most posterior superior point on the curvature of the average of the right and left outlines of the condylar head. Determined as the point of tangency to a perpendicular construction line to the anterior and posterior borders of the condylar head. The CO point is, therefore, located as the most superior axial point of the condylar head rather than as the most superior point on the condyle.
34	SOS	CENTER OF THE SPHENO-OCCIPITAL SYNCHONDROSIS : The midpoint of the cartilaginous union of the anterior end of the basilar portion of the occipital bone and the posterior surface of the body of the sphenoid bone. In cases where the synchondrosis is not readily apparent, it is located by comparison with either previous or subsequent cephalograms.
35	S	SELLA TURCICA: The center of the pituitary fossa of the sphenoid bone. Determined by inspection.
36	SE	ETHMOID REGISTRATION POINT: Intersection of the sphenoidal plane with the averaged greater sphenoid wing.
37	GB	GLABELLA: The height of curvature of the bone overlying the frontal sinus. In cases where this point is not readily apparent, the overlying soft tissue is used to locate it.
38	N	NASION: The junction of the frontonasal suture at the most posterior point on the curve at the bridge of the nose.
39	FMN	FRONTOMAXILLARY NASAL SUTURE: The junction of the frontal, maxillary and nasal bones.
40	OR	ORBITALE: The lowest point on the average of the right and left borders of the bony orbit.
41	IZ	INFERIOR ZIGOMA: The lowest point on the average of the right and left outlines of the zygoma.
42	PTMS	PTERYGO - MAXILLARY FISSURE, SUPERIOR: The most superior point on the average of the right and left outlines of the pterygo-maxillary fissure.
43	PTM	PTERYGO - MAXILLARY FISSURE, INFERIOR: The most inferior point on the average of the right and left outlines of the pterygo-maxillary fissure.

Number	Code	Definition
44	CP	CORONOID PROCESS: The most superior point on the average of the right and left outlines of the coronoid process. Determined as the point of tangency to a perpendicular drawn to the plane of the anterior border of the ramus.
45	PNS	POSTERIOR NASAL SPINE: The most posterior point at the sagittal plane on the bony hard palate.
46	PMC	PREMOLAR MESIAL CONTACT POINT : A point established by the intersection of a line along the occlusal contact of the upper and lower premolars and a perpendicular line to it through the averaged anterior contact of the first maxillary premolars with the maxillary cuspid.
47	PDC	PREMOLAR DISTAL CONTACT POINT: Established along the same premolar occlusion line as point 46 but at the point of a perpendicular line through the distal contact of the maxillary first premolar. The distance from PMC to PCD should be equal to the averaged mesial-distal distance of the first maxillary premolar.
48	TP	TRICHOTOMOUS POINT: This point has three determinative methods and interpretations: (a) when the permanent first molars are absent (not in occlusion) and the deciduous second molars are traced, point 48 is chosen along a line through points 46 and 47 and in the region of the anterior border of the mandibular ramus. Its presence in this case is to indicate that deciduous, rather than permanent teeth were traced; (b) when the first permanent molars are erupted and traced, point 48 is not marked except as below; (c) when the second permanent molars are erupted and in full occlusion, point 48 is marked at their distal contact points.
49	PO	PORION: The midpoint of the line connecting the most superior point of the radiopacity generated by each of the two ear rods of the cephalostat.
50	FPP	FUNCTIONAL OCCLUSAL PLANE POINT: This point is logically determined and is therefore not a traced landmark. It is used to define the posterior location of the functional occlusal plane and consequently its value is related to the presence (or absence) of landmark 48. (a) If landmark 48 is present and the individual is less than 9 years of age, landmark 50 takes on the same value as landmark 48. (b) In all other cases, landmark 50 takes on the value of landmark 23.
51	PB	POSTERIOR BORDER OF THE RAMUS: This is defined as the intersection of the FOP with the posterior border of the mandibular ramus.

Number	Code	Definition
52	AB	ANTERIOR BORDER OF THE RAMUS: This is defined as the intersection of the FOP with the anterior border of the ramus.
53	LT	LINGUAL TUBEROSITY: The Lingual Tuberosity is derived by extending the distance between landmarks 51 and 52 anteriorly along the FOP from the intersection of the FOP and the RA Vertical Line.
54	LMC	LOWER MOLAR MESIAL CONTACT: The mesial contact (height of contour) of the mandibular first molar relative to the FOP.
55	UMC	UPPER MOLAR MESIAL CONTACT: The mesial contact (height of contour) of the maxillary first molar relative to the FOP.
56	ADP	ANTERIOR DOWNS POINT: The midpoint of the line connecting landmarks 6 and 7 (LIE and UIE). This represents the anterior point through which Downs Occlusal Plane passes.
57	PDP	POSTERIOR DOWNS POINT: The midpoint of the line connecting landmarks 18 and 19 (LMT and UMT). This represents the posterior point through which Downs Occlusal Plane passes.

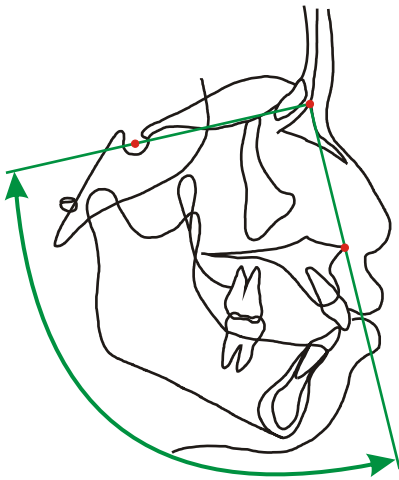


**CEPHALOMETRIC LANDMARKS
(46-57)**



**8. MEDIDAS ANGULARES
ANGULAR MEASUREMENTS
(Variables 1-74)**

ANGULAR MEASUREMENT VARIABLE 1



Sella-Nasion-Anterior Nasal Spine

ANS-N-S

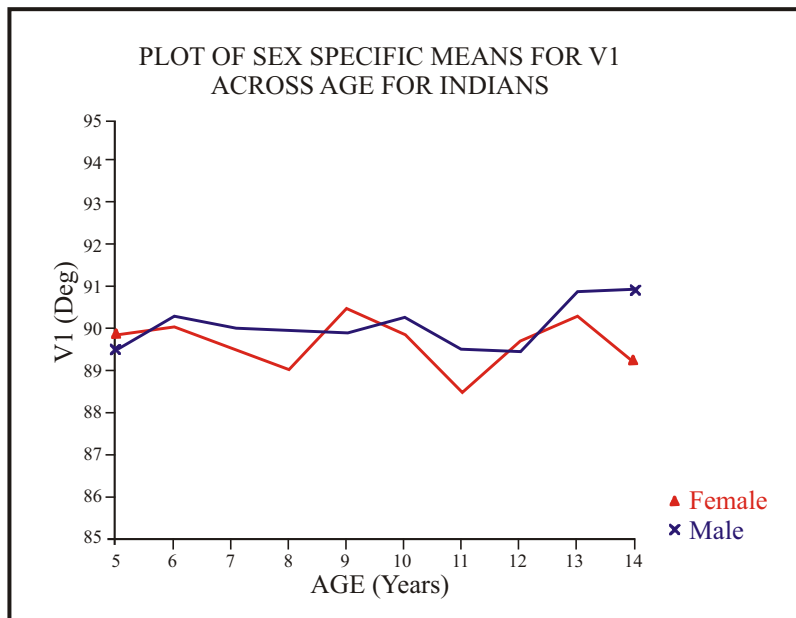
10-38-35

Male Indian

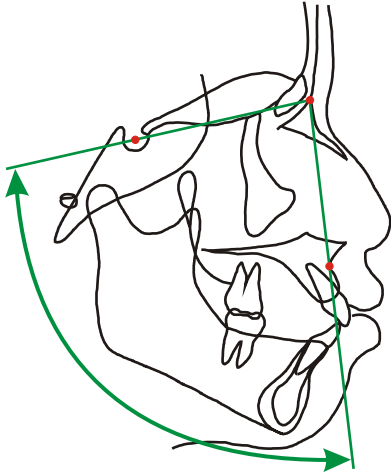
Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	14	84.845	93.890	89.461	2.9644	-.010	-1.322
6	22	84.066	95.473	90.256	3.2982	-.163	-.971
7	20	82.583	95.355	90.010	3.1991	-.473	-.189
8	23	82.199	97.281	89.957	3.8755	-.262	-.527
9	23	83.259	97.107	89.900	3.4090	.090	-.285
10	21	83.152	96.197	90.290	3.4505	-.156	-.566
11	21	82.190	96.035	89.496	3.9652	-.242	-.887
12	19	83.875	94.486	89.462	2.8740	-.019	-.591
13	20	84.549	96.371	90.896	3.4891	-.159	-.878
14	10	81.940	99.056	90.965	6.0952	-.204	-1.480

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	83.965	95.509	89.820	3.4614	-.343	-.771
6	20	85.686	95.291	90.027	3.0655	.098	-.932
7	23	79.692	95.792	89.494	4.0614	-.232	-.252
8	23	80.179	95.260	89.006	3.9250	-.283	-.428
9	21	85.067	95.548	90.487	2.9372	-.124	-1.021
10	18	84.190	95.177	89.841	2.9622	-.026	-.746
11	22	79.929	94.636	88.483	3.5671	-.379	-.090
12	22	84.890	95.865	89.686	2.9483	.243	-.709
13	19	86.989	94.689	90.326	2.2994	.217	-1.060
14	11	83.536	95.003	89.177	3.8432	.160	-1.217



ANGULAR MEASUREMENT VARIABLE 2



Sella-Nasion-A Point Steiner Analysis

A-N-S

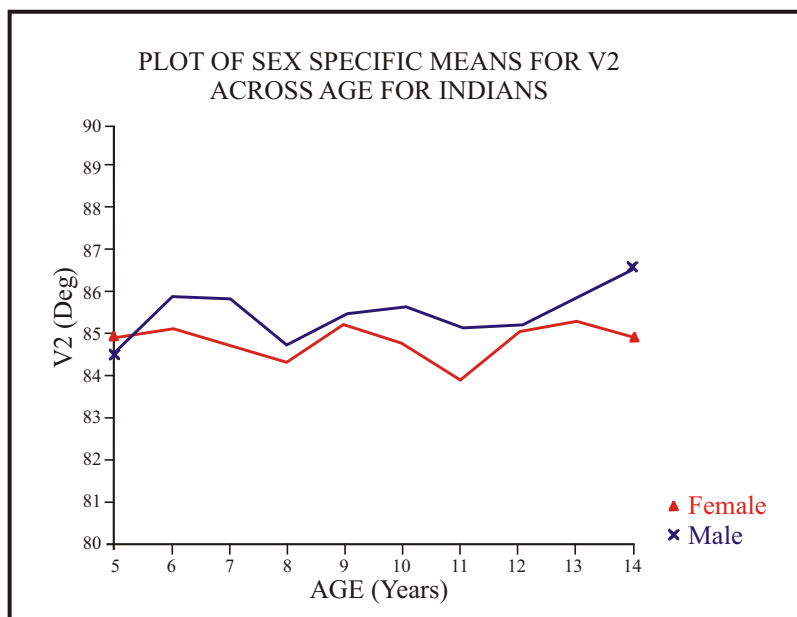
9-38-35

Male Indian

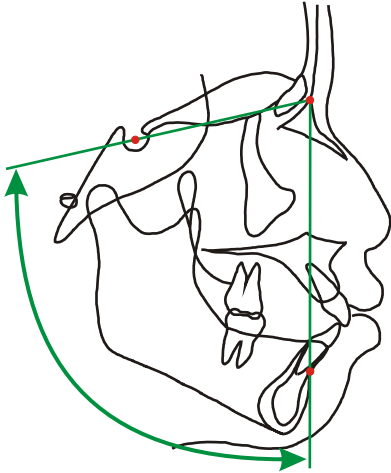
Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	14	80.938	89.174	84.693	2.6186	.180	-1.117
6	22	79.827	92.871	85.817	3.1000	.127	-.291
7	20	79.969	93.104	85.746	3.1932	.151	.011
8	22	78.603	89.024	84.744	3.0798	-.435	-.781
9	23	77.374	93.478	85.476	3.7179	-.028	.165
10	21	78.645	93.215	85.610	3.5643	.101	-.172
11	21	78.405	92.429	85.101	3.9415	-.011	-.908
12	19	79.710	91.938	85.131	3.3139	.366	-.587
13	21	78.448	93.845	85.766	3.8272	.026	-.299
14	10	78.556	94.808	86.485	5.0828	-.060	-1.020

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	79.175	90.165	84.999	3.2811	-.489	-.779
6	20	80.561	89.155	85.091	2.6557	-.263	-1.201
7	23	76.451	91.511	84.723	3.5756	-.051	-.136
8	23	75.629	90.274	84.295	3.8235	-.232	-.455
9	21	79.899	89.512	85.172	2.7448	-.344	-1.038
10	19	76.636	89.335	84.681	3.3203	-.602	.101
11	22	77.682	88.808	83.835	2.8505	-.156	-.546
12	22	80.958	90.591	85.023	2.6786	.274	-.988
13	19	82.523	88.665	85.270	1.9332	.386	-.853
14	11	78.861	90.024	84.932	3.5660	-.185	-.963



ANGULAR MEASUREMENT VARIABLE 3



Sella-Nasion-B Point Steiner Analysis

B-N-S

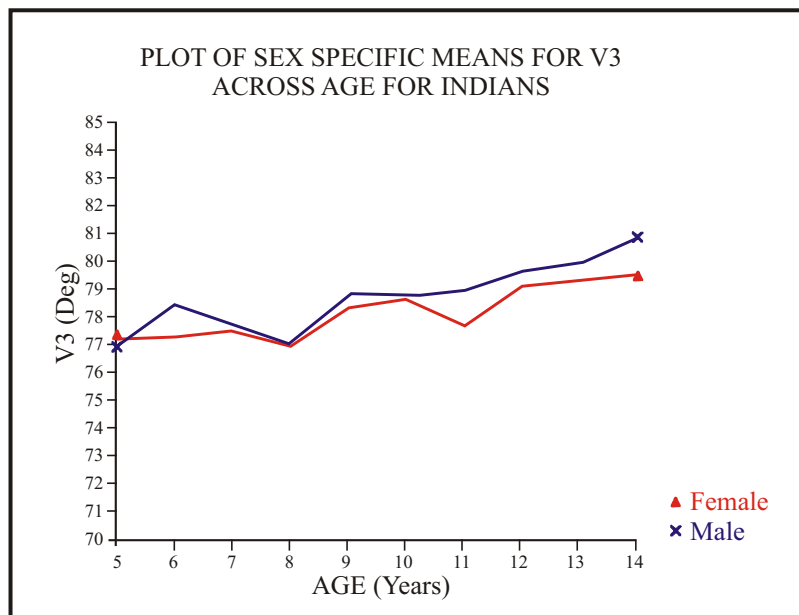
4-38-35

Male Indian

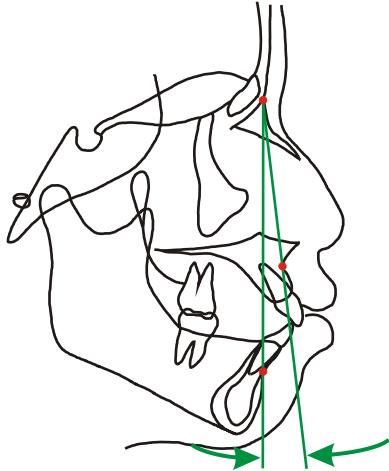
Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	14	72.733	81.681	77.146	2.5431	-.132	-.707
6	22	71.377	87.483	78.435	3.6650	.181	.389
7	19	72.004	83.865	77.829	3.1420	-.096	-.325
8	22	70.495	82.671	77.009	3.0884	-.552	-.213
9	23	70.102	88.106	78.839	3.9473	.194	.581
10	20	70.615	84.721	78.796	3.3344	-.313	.495
11	21	71.419	89.398	79.011	4.5954	.249	-.176
12	19	72.604	89.384	79.658	3.9294	.508	.722
13	21	71.442	88.889	79.966	4.1770	-.053	.169
14	10	72.193	89.593	80.823	4.7228	.021	-.019

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	73.513	82.802	77.347	2.6682	.160	-.724
6	20	73.667	82.822	77.334	2.3262	.361	-.136
7	22	73.338	82.711	77.547	2.4508	.384	-.247
8	23	69.798	82.761	77.013	3.1447	-.263	-.119
9	21	73.844	82.860	78.337	2.2525	-.220	-.264
10	18	75.732	83.318	78.694	2.1975	.712	-.432
11	22	72.187	81.908	77.709	2.3688	-.314	-.270
12	22	75.119	83.931	79.096	2.4429	.247	-.836
13	20	72.610	84.333	79.376	2.8544	-.721	.146
14	11	73.523	86.422	79.549	3.4535	.353	-.045



ANGULAR MEASUREMENT VARIABLE 4



A Point-Nasion-B Point Steiner Analysis

A-N-B

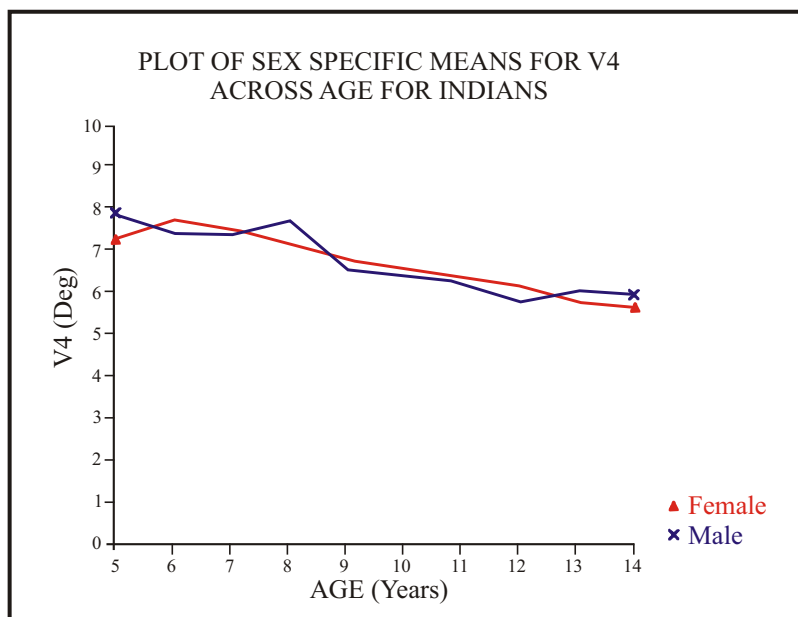
9-38-4

Male Indian

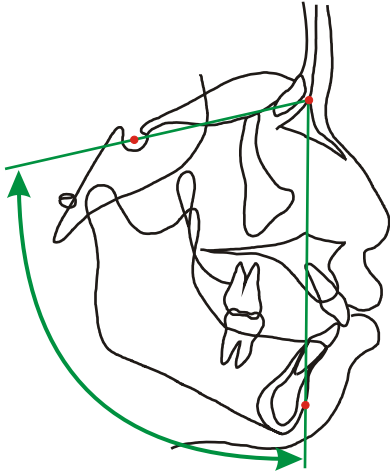
Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	5.0977	12.177	7.8556	1.8825	.513	-.042
6	22	5.2859	9.9851	7.3810	1.4152	.085	-1.165
7	20	4.5537	9.6768	7.4124	1.6702	-.158	-1.284
8	23	4.0176	11.305	7.6693	1.7732	.070	-.259
9	23	3.8787	9.4768	6.6371	1.6008	.064	-.990
10	21	2.7390	8.5305	6.3097	1.6116	-.317	-.551
11	21	3.0066	9.6055	6.0904	1.8610	-.032	-.771
12	19	2.2891	8.8601	5.4727	1.9805	.094	-.986
13	21	2.8479	9.8875	5.8002	1.8478	.333	-.448
14	10	3.5930	8.6506	5.6620	1.5625	.684	-.478

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	14	5.5820	10.144	7.3483	1.3927	.421	-.659
6	20	5.3621	11.601	7.7567	1.6084	.588	-.228
7	23	4.9036	10.576	7.5615	1.5211	-.059	-.679
8	23	5.5564	9.9236	7.2814	1.2723	.298	-.725
9	22	4.5146	9.8369	6.8175	1.3673	.081	-.382
10	19	3.7056	9.5918	6.4080	1.3672	.905	1.432
11	22	3.4570	8.3289	6.1267	1.4282	-.472	-.847
12	23	3.6572	8.4360	5.8844	1.2885	.410	-.695
13	20	2.9531	9.1450	5.4988	1.7648	.562	-.685
14	11	1.0359	7.6060	5.3824	2.1176	-.797	-.543



ANGULAR MEASUREMENT VARIABLE 5



Sella-Nasion-Pogonion

PG-N-S

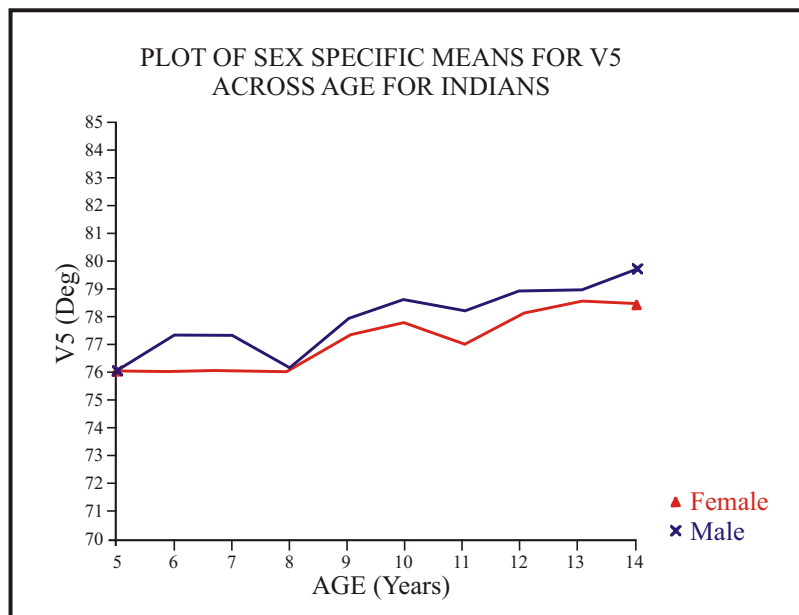
3-38-35

Male Indian

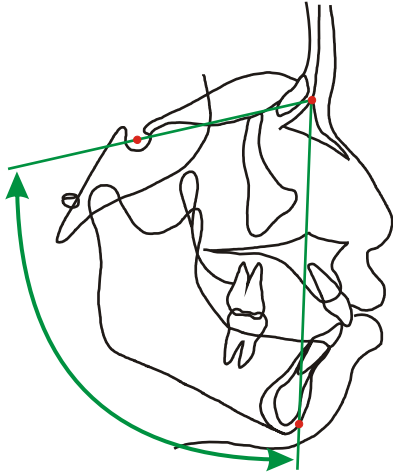
Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	14	71.064	80.629	76.096	2.8869	-.290	-.771
6	22	69.579	85.830	77.242	3.6461	.048	.239 *
7	20	70.456	85.975	77.293	3.7735	.271	.183
8	22	69.107	82.333	76.178	3.3018	-.524	-.163
9	23	68.422	86.886	77.974	4.0375	.054	.600
10	21	68.951	87.819	78.523	4.1218	.166	.615
11	21	69.903	87.998	78.240	4.6243	.205	-.251
12	19	71.678	87.447	78.829	3.8258	.277	.335
13	21	70.681	86.603	78.897	4.0968	-.146	.053
14	10	70.854	87.531	79.662	4.7074	-.108	-.241

Female Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	15	72.238	80.625	76.150	2.7556	-.020	-1.159
6	20	72.557	82.521	76.192	2.5575	.471	.057
7	23	69.097	82.675	76.107	2.8427	-.107	.855
8	23	69.093	82.735	76.118	3.1001	-.181	.112
9	21	72.781	81.943	77.375	2.3235	-.220	-.318
10	18	75.439	83.119	77.788	2.1635	1.183	.431
11	21	73.392	80.243	77.094	1.9287	-.090	-.870
12	22	74.800	82.614	78.138	2.3400	.425	-.890
13	20	71.586	83.662	78.507	2.9329	-.706	.128
14	11	72.308	85.476	78.515	3.5641	.326	-.131



ANGULAR MEASUREMENT VARIABLE 6



Sella-Nasion-Gnathion

GN-N-S

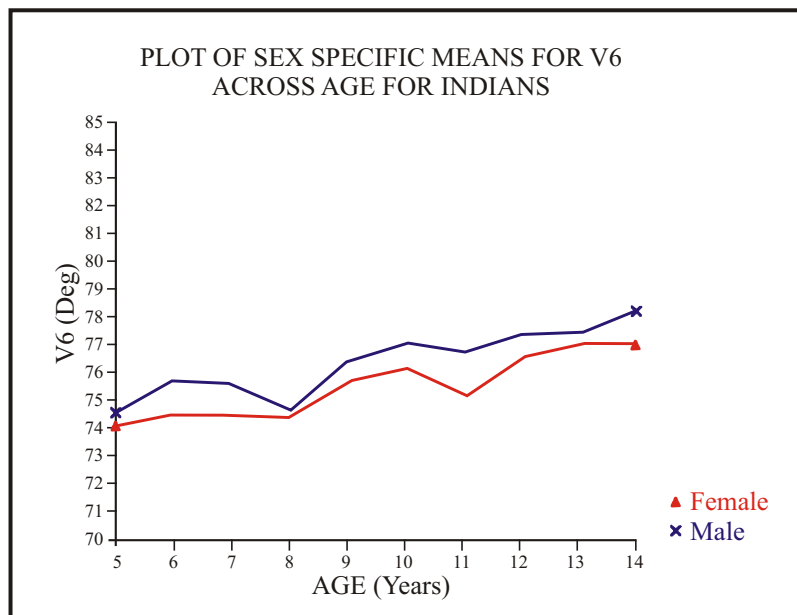
2-38-35

Male Indian

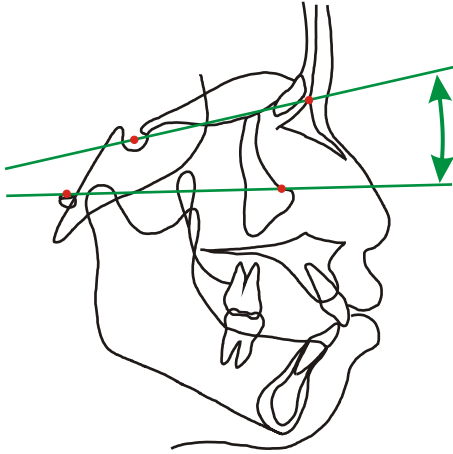
Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	14	69.443	79.250	74.577	2.9769	-.188	-.858
6	22	68.212	83.601	75.715	3.6291	-.092	-.132 *
7	20	68.865	83.580	75.694	3.7624	.151	-.180
8	22	67.708	80.728	74.614	3.2664	-.471	-.288
9	23	67.183	84.738	76.460	3.9712	-.007	.359
10	21	67.509	85.599	76.892	4.0677	.106	.370
11	21	68.497	85.978	76.614	4.5925	.156	-.394
12	19	70.088	85.300	77.203	3.8985	.146	.005
13	21	69.360	85.054	77.384	3.9693	-.133	.003
14	10	69.706	85.486	78.181	4.5710	-.162	-.421

Female Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	15	70.295	78.981	74.529	2.8066	-.085	-1.160
6	20	70.552	81.169	74.542	2.7005	.460	-.016
7	23	67.594	81.232	74.363	2.8578	.070	.820
8	23	67.851	81.111	74.486	3.0968	-.081	-.168
9	21	71.291	80.192	75.716	2.3615	-.236	-.491
10	18	73.525	81.385	76.112	2.1805	1.070	.239
11	22	69.507	78.659	75.168	2.2795	-.513	-.045
12	22	73.025	81.006	76.499	2.3442	.462	-.841
13	20	70.242	81.599	76.940	2.9078	-.741	-.111
14	11	71.080	84.077	76.992	3.6021	.411	-.284



ANGULAR MEASUREMENT VARIABLE 7



Sella-Nasion/Frankfort Plane

N-S/OR-PO

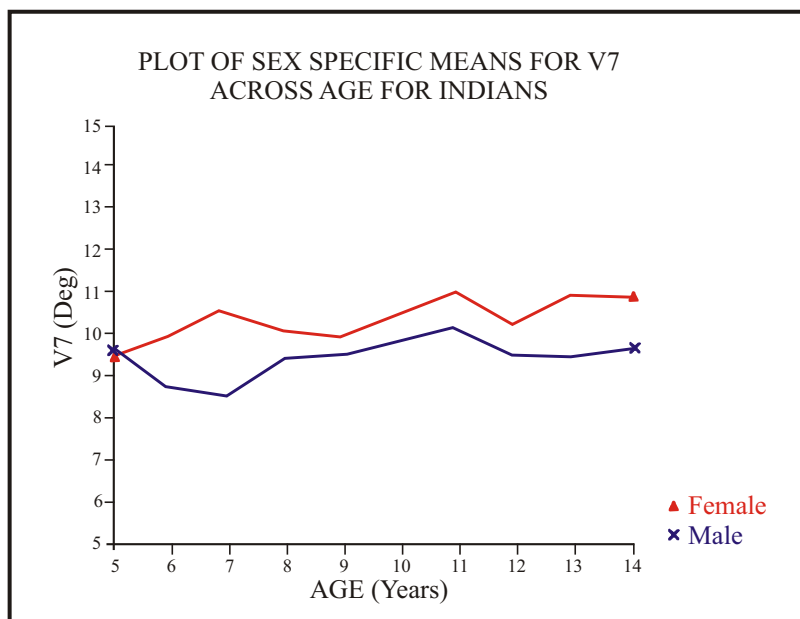
38-35/40-49

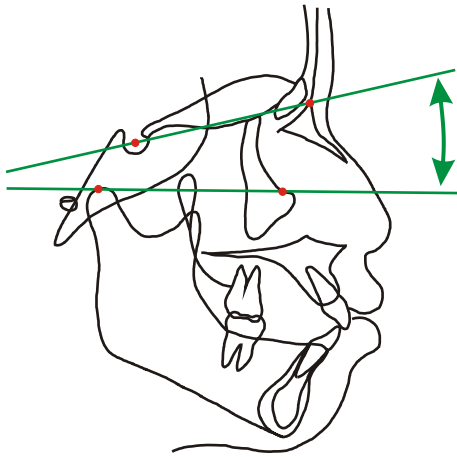
Male Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	14	5.0945	15.578	9.6132	3.0161	.580	-.529
6	22	5.7427	12.546	8.7342	2.0694	.272	-1.158 *
7	20	4.4124	13.931	8.5156	2.4917	.398	-.405 **
8	23	5.4673	14.587	9.3350	2.6117	.451	-.836
9	23	2.9241	15.128	9.4447	2.8922	.024	-.344
10	21	4.5215	15.753	9.7676	3.1253	.162	-1.112
11	21	4.6340	15.304	10.005	2.8859	-.213	-.678
12	19	4.7170	13.197	9.3820	2.5304	-.341	-.870
13	21	5.7307	13.243	9.3467	2.2428	.066	-1.241
14	10	5.9724	13.940	9.5491	2.5496	.245	-1.015

Female Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	15	4.7722	14.428	9.4066	2.8704	.423	-.747
6	20	5.9084	15.714	9.8473	2.7823	.612	-.563
7	23	5.7542	16.276	10.506	2.4930	.360	-.220
8	23	5.2830	14.626	10.003	2.5856	-.108	-.749
9	22	3.4587	17.159	9.8419	3.4763	.184	-.428
10	19	5.5845	16.539	10.375	2.8508	.207	-.536
11	22	4.3755	17.245	10.875	2.8428	-.150	.120
12	23	2.4812	14.192	10.089	3.0208	-.793	.105
13	20	4.0364	16.143	10.734	2.8517	-.355	-.052
14	11	6.8196	14.584	10.791	2.5455	-.397	-1.142





ANGULAR MEASUREMENT VARIABLE 8

Sella-Nasion/Condylar Plane

N-S/OR-CO

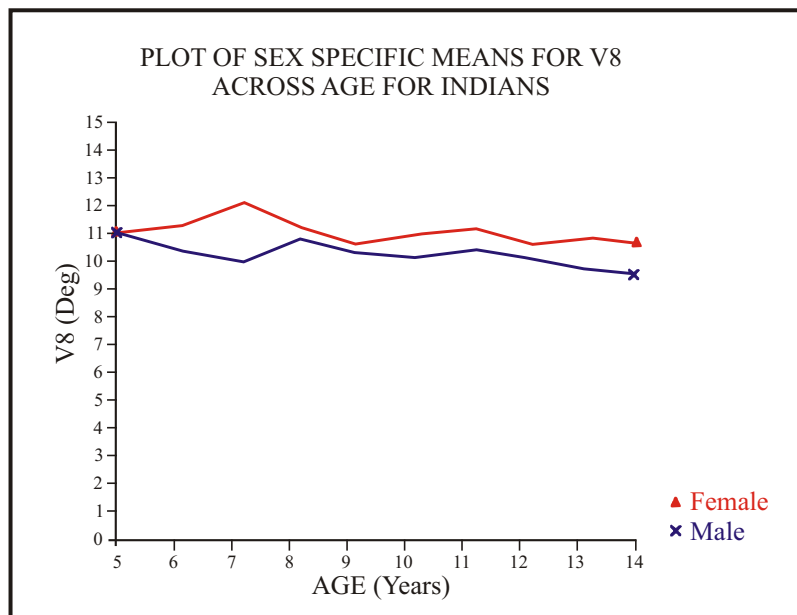
38-35/40-33

Male Indian

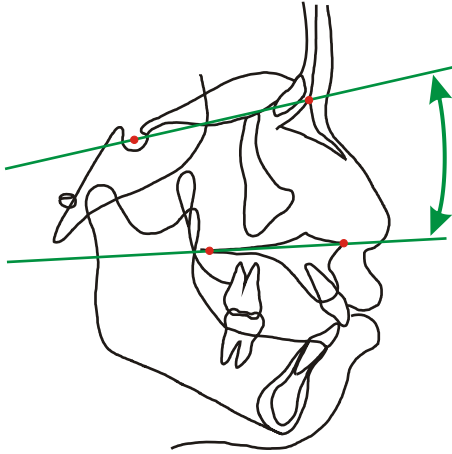
Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	14	6.1946	16.406	10.954	2.7103	.302	-.366
6	22	6.9390	14.966	10.383	2.5476	.266	-1.142 *
7	20	4.8892	15.837	9.9899	2.8908	.288	-.708 *
8	23	6.9185	15.278	10.828	2.6452	.309	-1.323
9	23	2.8132	16.074	10.370	3.3233	.013	-.337
10	21	5.9036	15.876	10.196	2.9499	.355	-1.095
11	21	5.5105	15.929	10.424	3.1366	-.156	-1.098
12	19	6.0242	14.660	10.104	2.5261	.106	-.833
13	21	5.4248	14.010	9.8158	2.5515	-.275	-1.087
14	10	6.4336	14.214	9.6479	2.9459	.397	-1.352

Female Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	15	5.2271	15.315	11.068	2.5483	-.329	.091
6	20	6.4893	16.116	11.308	2.8320	.081	-1.152
7	23	7.3574	17.286	12.049	2.7194	-.104	-.698
8	23	6.4998	14.969	11.227	2.7004	-.509	-1.083
9	22	5.2964	17.390	10.680	2.9710	.242	-.346
10	19	7.3066	15.318	10.975	2.4993	-.068	-1.164
11	22	4.7515	16.723	11.162	2.7514	-.111	-.059
12	23	3.9148	15.071	10.666	2.7180	-.412	-.134
13	20	6.1843	16.937	10.879	2.7057	.318	-.286
14	11	5.9990	15.391	10.654	2.7375	-.284	-.518



ANGULAR MEASUREMENT VARIABLE 9



Sella-Nasion/Palatal Plane

N-S/ANS-PNS

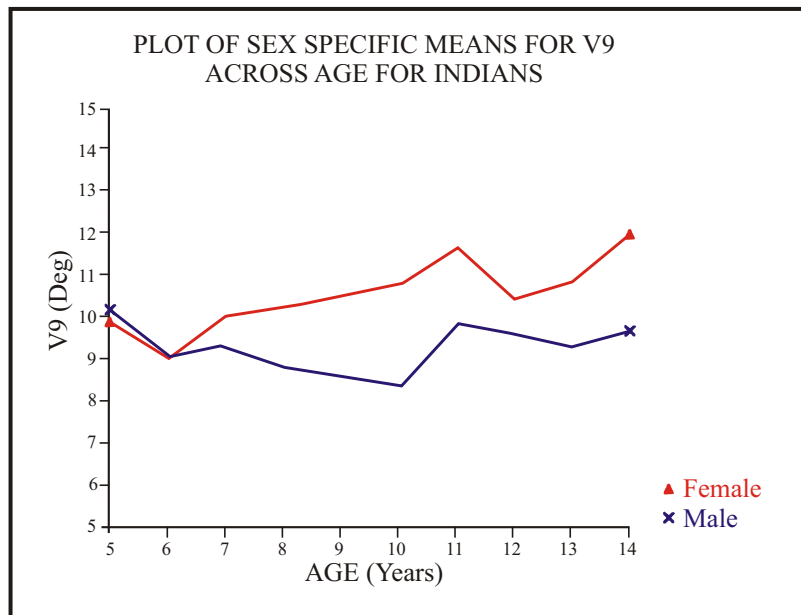
38-35/10-45

Male Indian

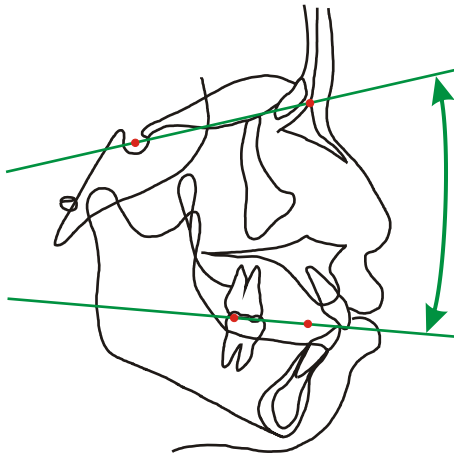
Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	14	5.5349	16.622	9.9976	3.4791	.627	-.575
6	21	4.2136	16.343	8.9058	3.1726	.992	.640
7	19	4.0168	13.368	9.2440	2.5714	-.535	-.183
8	22	4.1479	16.116	8.7137	2.8449	.594	.493
9	22	3.8984	11.978	8.4453	2.2618	-.355	-.594 *
10	21	3.3206	13.016	8.2606	2.6669	-.358	-.442 *
11	21	2.7222	15.992	9.6382	3.4981	-.379	-.505
12	18	4.5029	13.567	9.4985	1.9566	-.573	1.143
13	21	4.2764	12.293	9.1581	2.2173	-.791	-.284
14	10	6.8271	12.976	9.4993	2.0344	.178	-1.202

Female Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	15	3.1252	15.113	9.7803	3.2791	-.240	-.524
6	20	4.6238	16.105	8.9386	3.0246	.597	-.288
7	23	4.6450	14.819	9.9159	2.8174	.065	-.830
8	23	3.1428	17.521	10.151	3.5053	.189	-.489
9	22	4.4639	16.896	10.279	3.4987	.156	-.757
10	19	4.8523	18.012	10.684	3.7769	.358	-.810
11	22	6.1455	19.538	11.465	3.2469	.763	.250
12	22	4.3064	15.774	10.282	2.8777	-.215	-.317
13	20	3.9072	19.176	10.709	3.5671	.258	.359
14	11	6.0881	20.772	11.803	4.2827	.734	-.116



ANGULAR MEASUREMENT VARIABLE 10



**Sella-Nasion/Functional
Occlusal Plane**

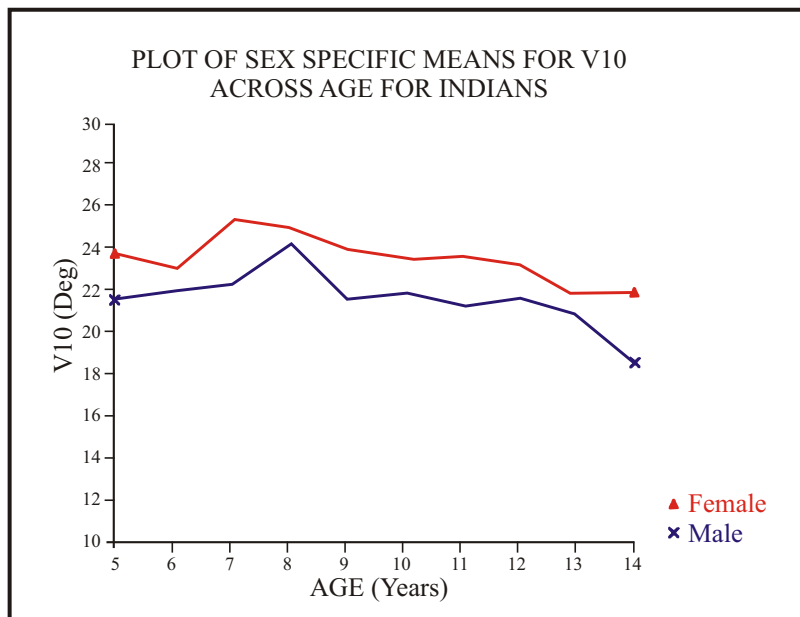
N-S/PMC-FPP 38-35/46-50

Male Indian

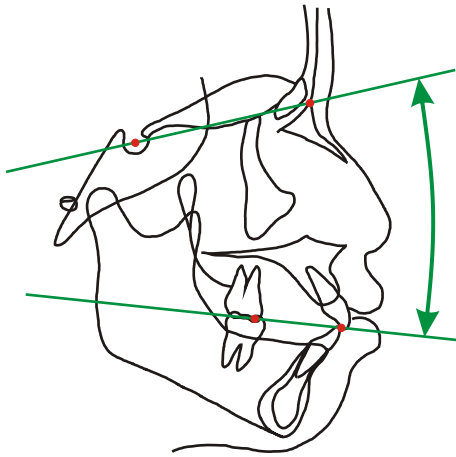
Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	15	11.725	27.568	21.506	3.9831	-.634	.774
6	22	13.980	32.189	21.889	4.7191	.411	-.477
7	20	13.066	31.901	22.281	5.3475	-.046	-.531 *
8	23	18.410	30.306	24.069	3.2084	.289	-.830
9	23	11.918	30.117	21.557	4.3383	.052	-.249
10	21	13.383	32.180	21.761	4.6307	.398	-.429
11	21	12.914	27.110	21.162	4.5568	-.218	-1.140
12	18	15.901	25.499	21.560	2.9557	-.334	-.925
13	21	11.905	30.332	20.667	4.2396	.640	.602
14	10	11.915	26.721	18.426	4.8204	.342	-1.128 *

Female Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	15	14.426	29.361	23.623	3.9083	-.971	.228
6	20	14.031	30.314	22.937	4.2734	-.094	-.544
7	23	21.336	30.827	25.210	2.8761	.658	-.734
8	23	18.611	34.129	24.941	4.2702	.412	-.620
9	22	17.622	30.328	23.898	3.2467	.181	-.393
10	19	13.494	30.982	23.416	4.1672	-.486	.222
11	22	16.201	28.916	23.475	3.0579	-.260	-.198
12	23	16.422	30.413	22.978	3.8234	.140	-.663
13	20	15.060	26.902	21.766	3.3581	-.143	-.636
14	11	16.756	27.972	21.856	3.9788	.481	-1.251



ANGULAR MEASUREMENT VARIABLE 11



**Sella-Nasion/Downs Occlusal Plane
Steiner Analysis**

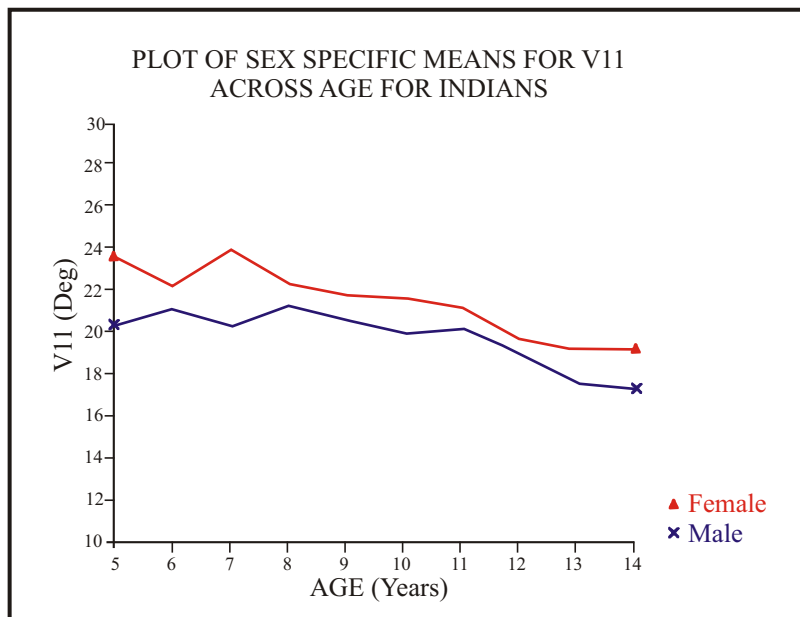
N-S/ADP-PDP 38-35/56-57

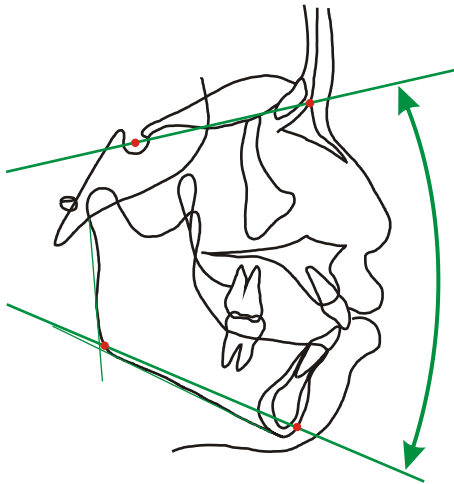
Male Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	15	10.387	34.105	20.234	6.8133	.592	-.559
6	22	13.790	31.101	21.009	4.5766	.346	-.464
7	20	9.6616	31.820	20.225	5.6990	.082	.034 *
8	23	10.581	30.634	21.181	4.6529	.167	.233
9	22	13.661	32.079	20.486	4.1752	.921	1.062
10	20	14.665	28.681	19.884	3.2895	.954	.972
11	21	9.8948	29.635	20.049	4.9843	-.097	-.503
12	19	10.718	27.393	18.919	4.1268	.075	-.197
13	20	10.186	26.797	17.477	3.9891	.241	-.104
14	10	10.917	28.135	17.228	5.4204	.590	-.361

Female Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	14	17.464	29.864	23.538	3.4147	.184	-.399
6	20	14.513	27.573	22.059	3.9836	-.639	-.716
7	23	17.092	29.402	23.813	3.0403	-.056	-.429
8	23	15.677	28.554	22.199	3.4963	-.156	-.916
9	22	12.913	28.577	21.658	3.8238	-.189	-.083
10	19	12.729	28.861	21.467	3.8146	-.361	.185
11	22	13.363	26.530	21.061	3.5872	-.291	-.401
12	23	11.417	25.134	19.577	4.0361	-.354	-.881
13	20	11.151	26.445	19.099	3.8614	.236	-.413
14	11	12.830	25.674	19.127	4.4170	.320	-1.246





ANGULAR MEASUREMENT VARIABLE 12

Sella-Nasion/Gonion-Gnathion Steiner Analysis

N-S/GN-GO

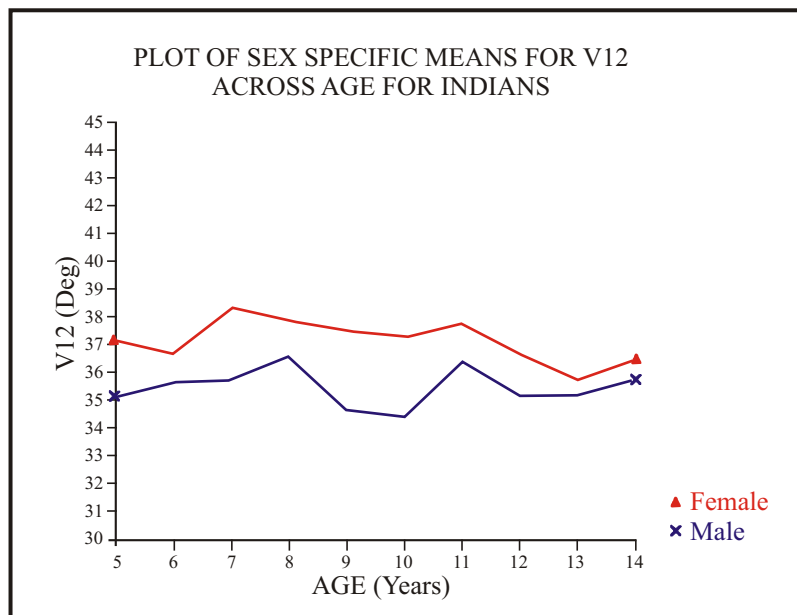
38-35/2-27

Male Indian

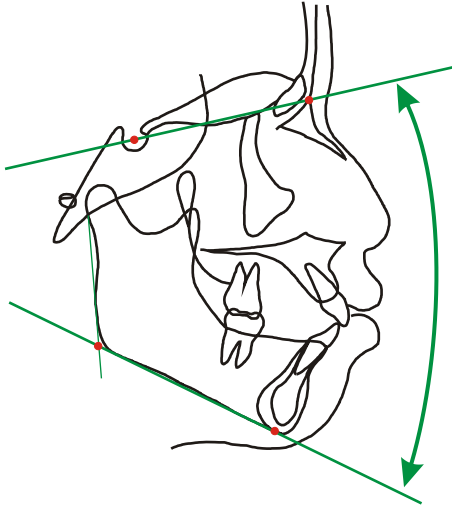
Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	15	23.614	43.323	35.096	6.0473	-.618	-.455
6	22	24.312	44.813	35.620	5.1371	-.318	-.211
7	20	26.427	48.369	35.701	5.6464	.235	-.201
8	22	26.446	44.328	36.511	4.5168	-.301	-.442
9	22	24.292	41.723	34.632	4.9016	-.534	-.434 *
10	20	24.766	42.122	34.375	4.9279	-.264	-.868 *
11	21	24.857	51.493	36.401	5.8027	.476	.723
12	19	25.463	44.112	35.087	5.2439	-.207	-.447
13	20	27.278	44.458	35.131	4.1278	.199	-.078
14	10	24.502	49.516	35.692	6.8505	.356	.096

Female Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	15	32.424	40.477	36.809	2.9033	-.136	-1.471
6	20	27.745	41.408	36.618	3.7121	-.749	-.316
7	23	31.243	44.364	38.209	3.3395	-.077	-.390
8	23	31.625	44.364	37.774	3.5214	.171	-.560
9	22	31.594	45.865	37.430	3.5540	.482	-.169
10	19	28.908	44.673	37.180	3.5323	-.265	.621
11	22	31.787	44.767	37.617	3.4366	.237	-.284
12	23	28.057	43.846	36.574	3.7843	-.419	-.283
13	20	27.127	44.250	35.630	4.1181	.300	-.022
14	11	29.325	42.440	36.401	4.3004	-.328	-.847



ANGULAR MEASUREMENT VARIABLE 13



Sella-Nasion/Mandibular Plane

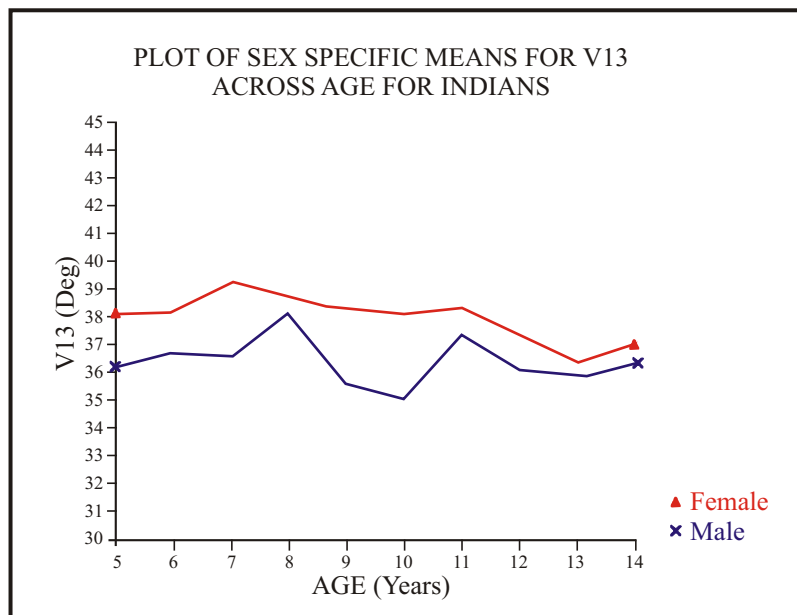
N-S/ME-GOI 38-35/1-28

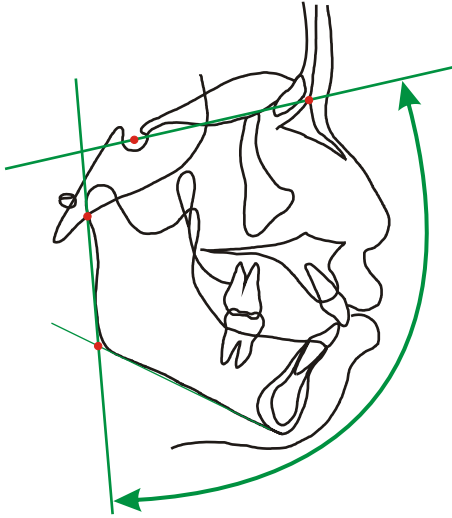
Male Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	15	22.307	44.074	36.101	6.4197	-.717	-.284
6	22	24.046	45.885	36.520	5.5652	-.454	-.087
7	20	25.644	49.728	36.490	6.2974	-.051	-.273
8	23	26.451	50.332	37.952	5.5950	-.056	-.081
9	22	25.019	43.103	35.492	5.4139	-.592	-.432
10	20	24.498	43.040	34.979	5.4498	-.318	-.825 *
11	21	25.205	51.486	37.367	5.9590	.229	.201
12	19	24.660	45.940	36.080	5.6661	-.238	-.581
13	20	27.385	44.068	35.806	4.3633	-.007	-.569
14	10	24.826	49.948	36.290	7.2104	.176	-.336

Female Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	15	32.607	42.611	37.768	3.1804	-.116	-1.266
6	20	32.551	46.495	38.561	3.8004	.022	-.634
7	23	31.410	46.805	39.253	3.6423	-.015	-.088
8	23	31.562	45.167	38.630	3.6696	.024	-.533
9	22	31.831	46.025	38.233	3.6187	.309	-.396
10	19	29.810	44.698	38.009	3.5963	-.284	.573
11	22	32.785	46.609	38.298	3.5674	.502	.134
12	23	28.820	43.835	37.236	3.8176	-.414	-.394
13	20	27.634	46.425	36.344	4.3947	.442	.234
14	11	29.903	44.246	36.969	4.5035	-.149	-.745





ANGULAR MEASUREMENT VARIABLE 14

Sella-Nasion/Gonial Inter-section-Articulare, Posterior

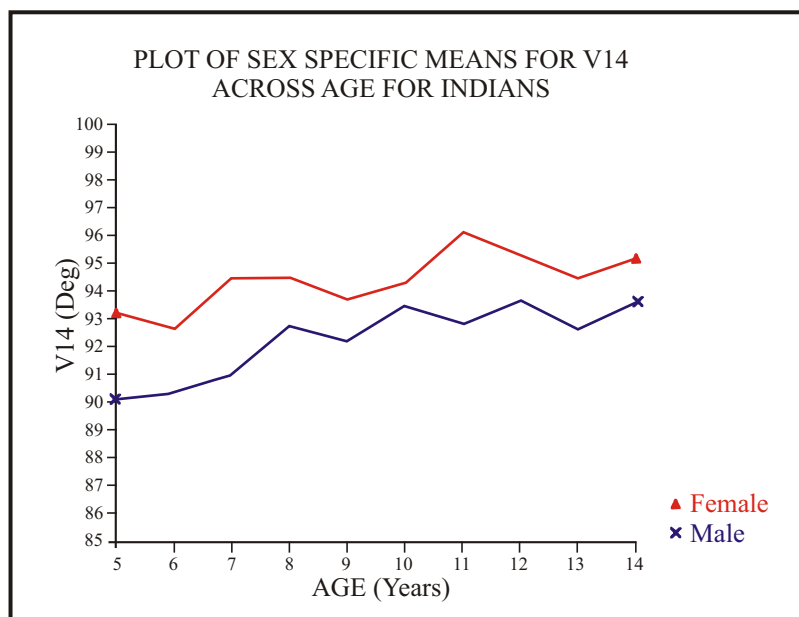
N-S/GOI-AR 38-35/28-31

Male Indian

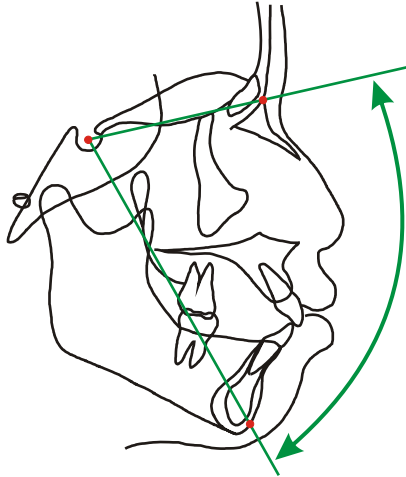
Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	14	76.863	97.379	90.124	6.3122	-.781	-.266
6	22	78.244	98.130	90.412	5.4710	-.437	-.477 *
7	20	80.036	99.841	91.079	5.3515	-.328	-.465 *
8	23	80.954	103.77	92.829	5.0030	.054	.305
9	23	79.940	103.27	92.242	5.4843	-.197	-.224
10	20	87.574	101.16	93.570	4.2461	.271	-1.184
11	21	79.707	102.85	92.940	5.7063	-.361	-.283
12	18	84.413	99.829	93.755	4.3805	-.417	-.802
13	21	79.396	103.73	92.766	5.4278	-.300	.473
14	10	86.743	103.94	93.718	5.4950	.561	-.629

Female Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	15	87.330	101.04	93.217	3.5351	.083	.231
6	20	86.175	100.03	92.679	3.1767	.119	.382
7	23	85.074	104.41	94.498	4.3845	-.002	.031
8	22	88.234	101.36	94.512	3.7961	.050	-.842
9	21	83.946	102.94	93.771	3.9127	-.149	1.234
10	19	82.905	103.71	94.348	4.8016	-.263	.335
11	22	89.603	104.71	96.160	3.9432	.705	-.056
12	23	88.616	103.13	95.344	3.7943	.304	-.731
13	20	86.833	101.74	94.610	3.5566	-.472	.222
14	11	87.971	100.07	95.338	3.4801	-.698	-.156



ANGULAR MEASUREMENT VARIABLE 15



Nasion-Sella/Gnathion

N-S-GN

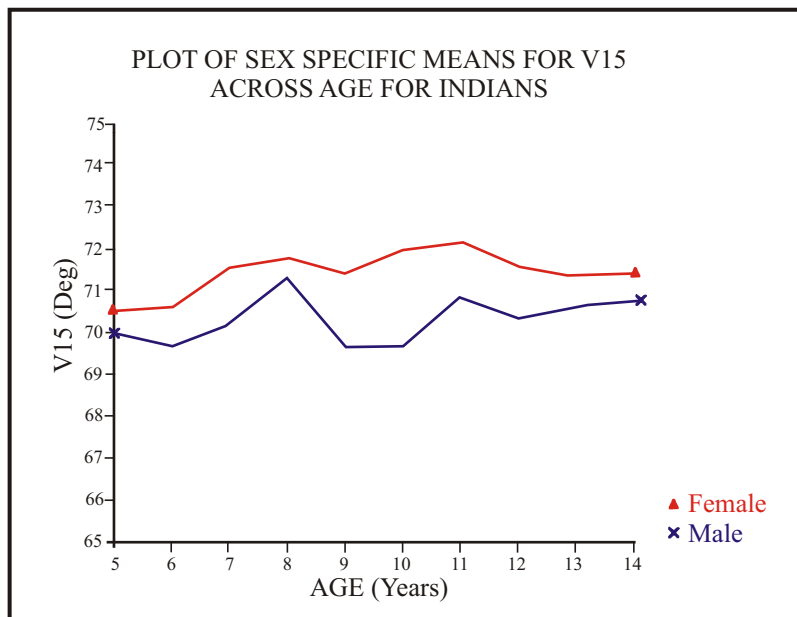
38-35-2

Male Indian

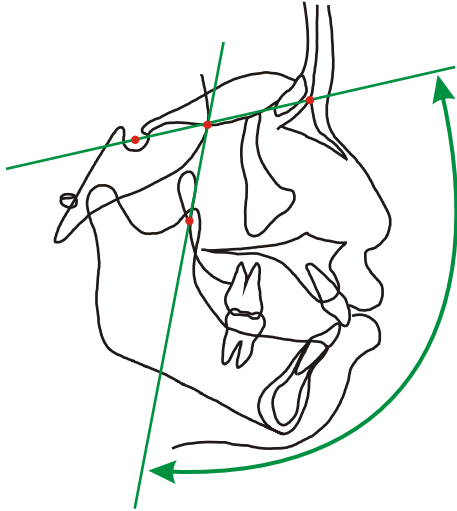
Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	15	64.252	76.971	69.978	3.7685	.325	-1.053
6	22	64.179	78.311	69.674	3.8291	.553	-.591
7	20	63.435	79.310	70.192	4.2177	.554	-.508
8	23	65.356	80.806	71.372	4.0569	.486	-.307
9	22	62.684	76.553	69.695	3.5783	-.017	-.734
10	20	63.171	76.303	69.704	3.7219	-.099	-1.125 *
11	21	62.751	81.326	70.968	4.8758	.289	-.535
12	19	62.835	78.351	70.403	4.0077	.354	-.355
13	21	62.769	81.041	70.657	4.4901	.631	.108
14	10	63.700	81.597	70.834	5.1693	.681	-.007

Female Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	15	65.779	73.901	70.277	2.5045	-.543	-.886
6	20	64.814	75.005	70.624	2.7571	-.415	-.454
7	23	64.674	78.151	71.531	3.0480	-.107	.186
8	23	64.616	78.249	71.787	3.3865	-.046	-.104
9	22	65.600	79.202	71.445	3.2901	.406	.329
10	18	65.679	78.433	72.006	2.6841	.211	1.355
11	22	65.826	77.779	72.238	2.7727	-.100	.219
12	23	65.230	78.592	71.646	3.2165	-.011	-.245
13	20	64.790	78.134	71.397	3.2773	.596	.361
14	11	64.461	77.693	71.494	3.9572	-.083	-.656



ANGULAR MEASUREMENT VARIABLE 16



Sella-Nasion/PM Vertical

N-S/PTM-SE

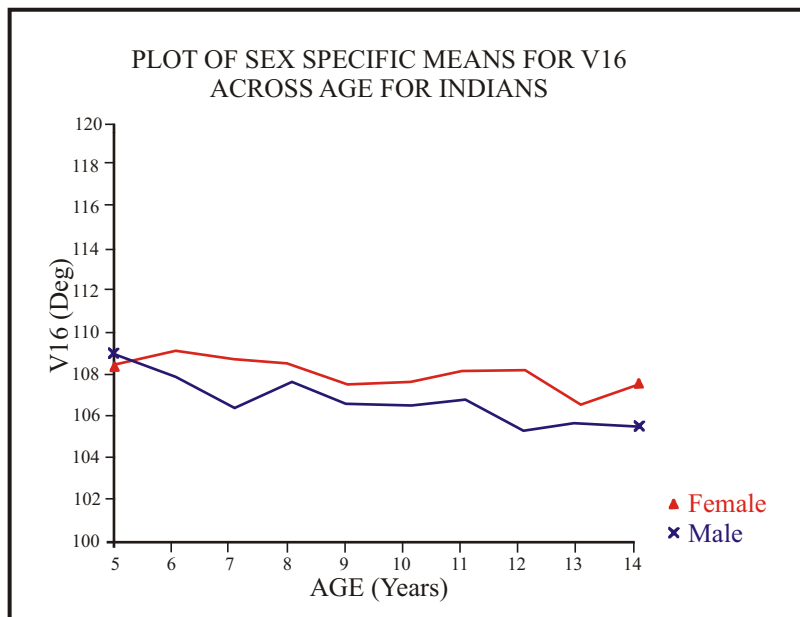
38-35/43-36

Male Indian

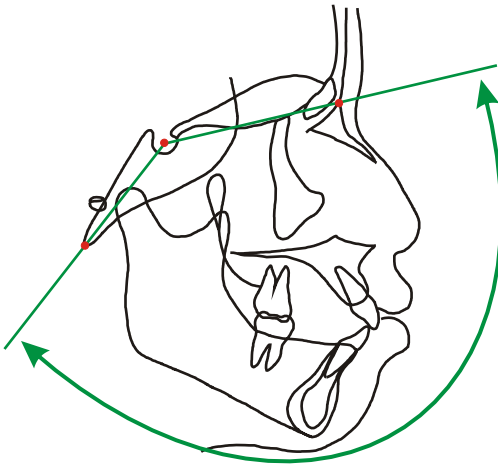
Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	14	104.25	115.88	108.88	3.2563	.543	-.321
6	21	102.22	116.41	107.78	3.5101	.657	-.043
7	20	98.572	114.58	106.35	3.7968	.106	.027
8	23	99.953	117.38	107.60	4.5129	.104	-.592
9	23	97.951	115.42	106.42	3.9443	.046	-.008
10	21	98.775	112.87	106.49	3.8022	-.324	-.678
11	21	100.15	116.20	106.73	4.4695	.276	-.765
12	18	98.339	111.14	105.34	3.5757	-.096	-.842 *
13	21	99.094	113.38	105.70	3.6220	-.009	-.483
14	10	97.815	110.76	105.58	3.9297	-.624	-.508

Female Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	14	102.12	115.56	108.33	3.6848	.263	-.512
6	20	98.158	119.07	109.13	4.8312	-.099	.018
7	23	97.303	118.08	108.72	5.1125	-.048	-.397
8	23	100.72	117.17	108.44	4.7529	.316	-.826
9	22	98.625	118.90	107.51	5.1260	.571	.083
10	19	101.96	118.57	107.60	4.7824	.752	-.140
11	22	100.89	116.18	108.19	4.1319	.357	-.583
12	23	102.56	116.17	108.24	4.1189	.577	-.604
13	19	101.08	113.78	106.57	2.8268	.355	.870
14	11	102.25	114.14	107.66	4.1726	.003	-1.176



ANGULAR MEASUREMENT VARIABLE 17



Sella-Nasion-Basion

N-S-BA

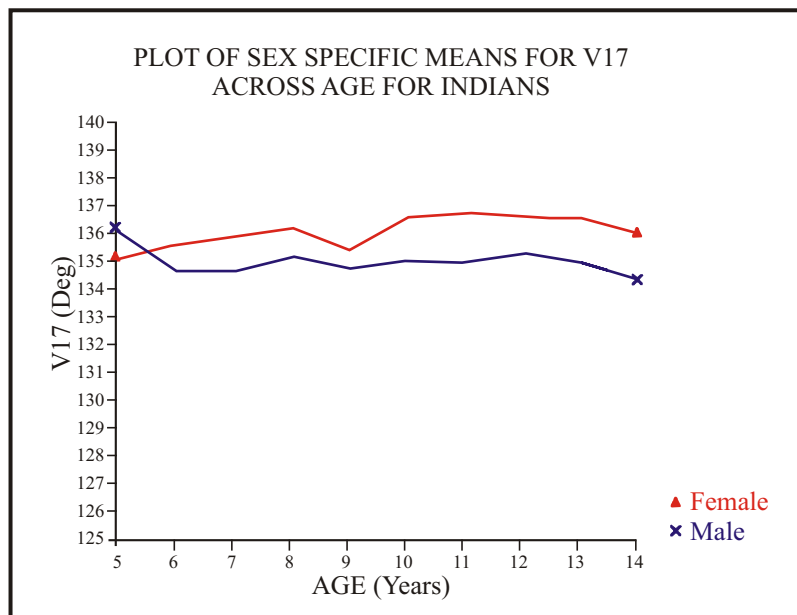
38-35-30

Male Indian

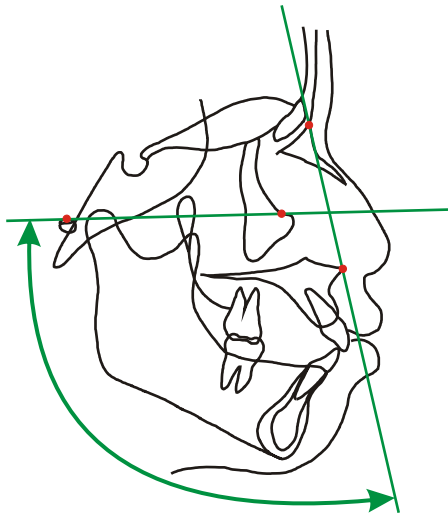
Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	15	127.07	142.44	135.98	5.0222	-.707	-.804
6	22	126.23	144.43	134.56	4.9846	-.058	-.689
7	20	126.59	144.08	134.56	5.1928	.029	-1.098
8	23	125.70	145.24	135.12	5.5442	.213	-.666
9	23	126.11	144.51	134.70	5.0379	.065	-.714
10	21	127.25	144.18	135.00	4.8253	-.202	-.843
11	21	125.50	143.42	134.89	5.1305	-.264	-.797
12	19	126.78	144.60	135.29	4.9929	-.113	-.868
13	21	126.18	143.61	134.91	4.4062	.178	-.322
14	10	128.35	144.34	134.30	4.8354	.542	-.006

Female Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	15	128.46	142.47	135.12	3.4418	.299	.149
6	20	128.13	144.15	135.92	4.1021	.497	-.097
7	23	125.34	143.75	135.85	4.0457	-.196	.612
8	23	126.15	146.83	136.15	4.5099	-.061	.493
9	21	126.71	141.52	135.41	3.8142	-.530	-.042
10	18	133.24	141.24	136.57	2.3550	.321	-.848
11	22	128.66	146.39	136.72	3.9672	-.002	.774
12	23	127.15	143.80	136.60	3.6874	-.547	.530
13	20	129.74	143.07	136.54	3.4659	.255	-.389
14	11	130.17	140.35	135.98	4.1094	-.479	-1.462



ANGULAR MEASUREMENT VARIABLE 18



**Frankfort Plane/Anterior Nasal
Spine-Nasion**

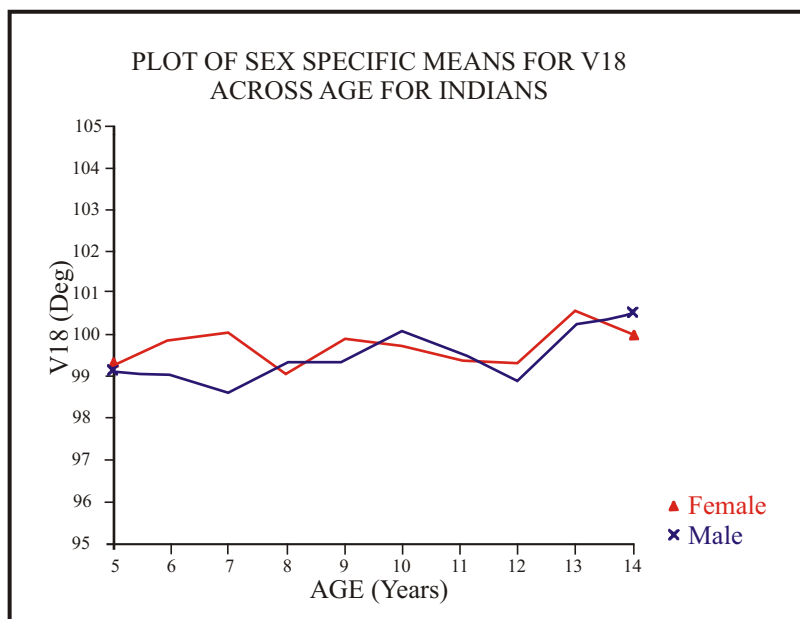
ANS-N/PO-OR 10-38/49-40

Male Indian

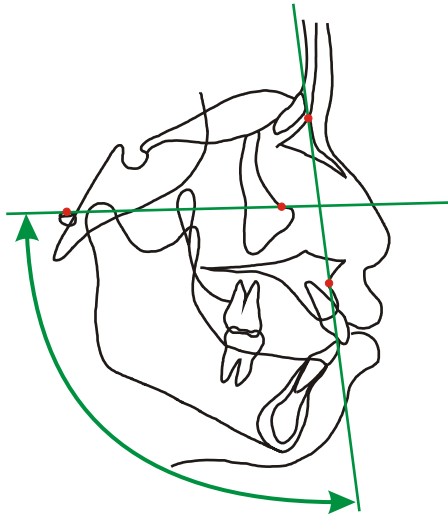
Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	14	91.057	104.23	99.074	3.8909	-.732	-.394
6	22	92.636	103.21	98.989	2.5680	-.500	.131
7	20	95.314	101.46	98.525	1.9883	-.320	-1.111
8	23	94.787	104.24	99.292	2.8628	.177	-1.113
9	23	95.046	103.36	99.344	1.9803	-.264	.149
10	21	95.682	104.58	100.06	2.1593	-.006	-.035
11	21	94.394	104.16	99.501	2.4644	-.295	-.653
12	19	94.622	102.40	98.844	2.2824	-.501	-.965
13	20	95.066	104.75	100.16	2.9364	-.071	-1.238
14	10	94.129	106.06	100.51	4.5758	-.168	-1.587

Female Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	15	93.899	103.42	99.226	2.9200	-.301	-.798
6	20	93.204	105.36	99.873	2.6811	-.425	.610
7	23	93.042	107.73	99.999	3.4686	-.005	-.317
8	23	90.874	105.90	99.008	3.6493	-.261	-.200
9	22	95.586	102.54	99.849	1.9687	-.467	-.732
10	19	93.234	104.85	99.698	3.3108	-.163	-1.016
11	22	93.208	105.22	99.358	3.2974	.183	-.408
12	23	90.899	106.40	99.281	3.7237	-.128	.143
13	20	95.991	106.84	100.55	2.6892	.204	-.023
14	11	97.646	103.28	99.968	2.0451	.311	-1.342



ANGULAR MEASUREMENT VARIABLE 19



Frankfort Plane/Nasion-A Point

A-N/PO-OR

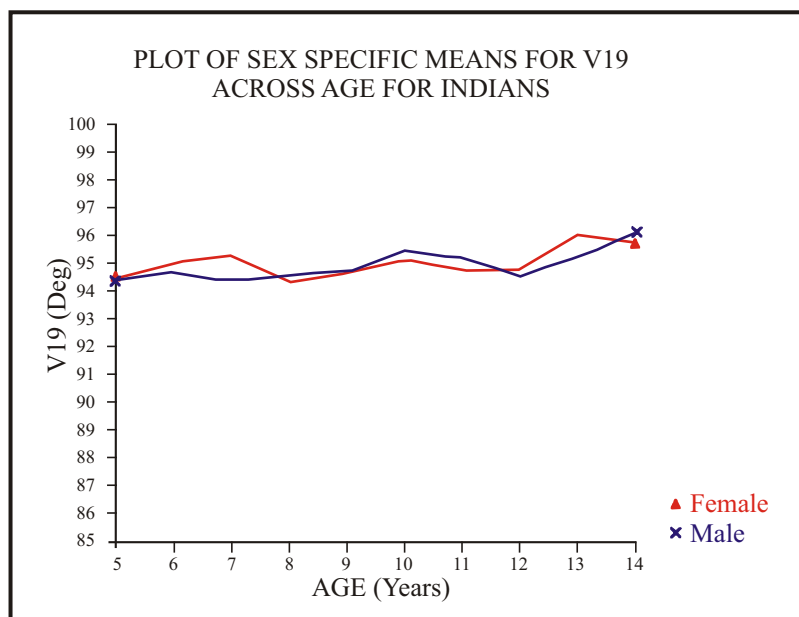
9-38/49-40

Male Indian

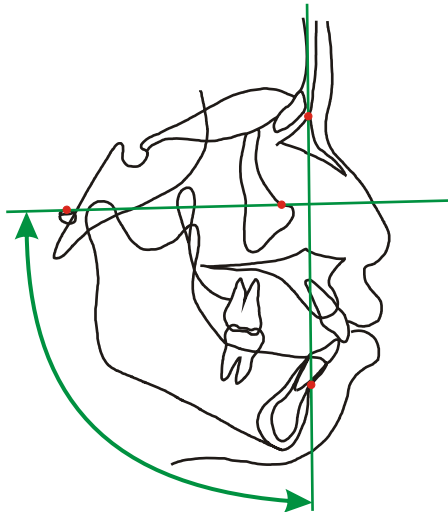
Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	14	86.914	98.608	94.306	3.5098	-.727	-.530
6	22	90.725	99.001	94.550	2.2360	.149	-.574
7	20	90.360	99.208	94.261	2.3614	.075	-.395
8	23	89.882	100.04	94.477	2.6365	.428	-.772
9	22	91.398	97.793	94.648	1.8675	-.008	-1.050
10	21	91.764	99.540	95.377	2.1530	.077	-.368
11	21	89.527	98.893	95.106	2.3818	-.408	-.331
12	19	88.964	97.547	94.513	2.4370	-.724	-.569
13	21	89.499	101.11	95.113	2.9965	.018	-.511
14	10	90.746	101.62	96.034	3.6197	-.060	-1.281

Female Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	15	90.445	98.338	94.405	2.4852	-.014	-1.079
6	20	89.666	98.644	94.938	2.2617	-.627	-.028
7	23	90.151	101.32	95.229	2.5847	.217	-.189
8	23	86.324	101.35	94.297	3.5723	-.180	-.236
9	22	91.170	98.030	94.564	1.9249	-.167	-.908
10	19	88.840	99.874	95.056	3.1700	-.156	-.902
11	22	90.407	100.60	94.710	2.9117	.604	-.589
12	23	87.323	102.09	94.721	3.5621	.127	.180
13	19	91.838	102.06	95.952	2.1291	.824	2.065
14	11	92.942	99.401	95.722	1.9187	.357	-.629



ANGULAR MEASUREMENT VARIABLE 20



Frankfort Plane/Nasion-B Point

B-N/PO-OR

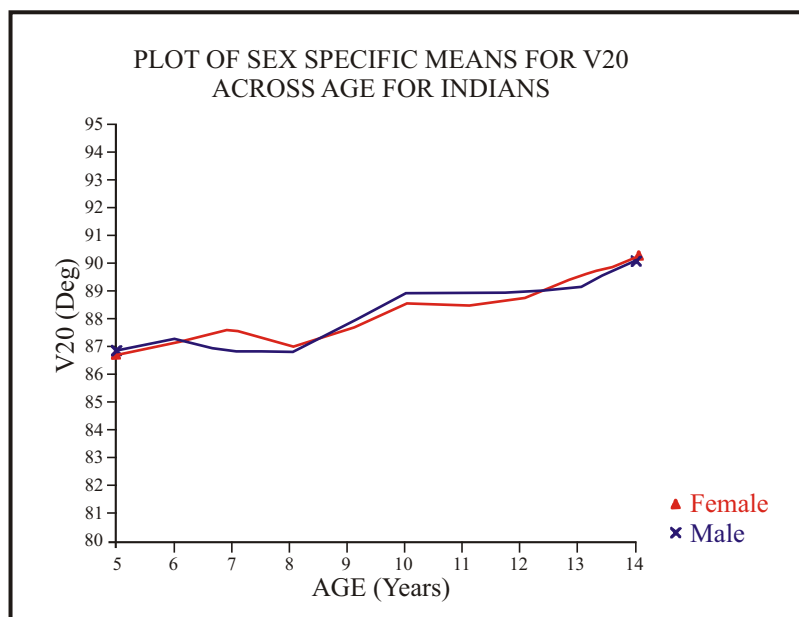
4-38/49-40

Male Indian

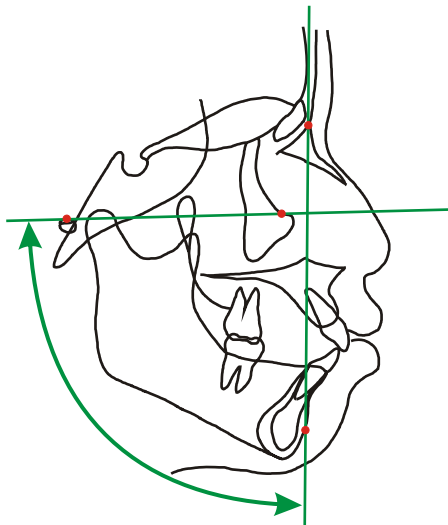
Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	14	79.241	91.188	86.759	3.0818	-.885	.580
6	22	81.734	93.226	87.169	2.9765	-.068	-.591
7	20	82.128	94.025	86.849	3.1079	.386	-.426
8	23	81.705	93.814	86.808	3.1059	.471	-.239
9	22	83.292	93.076	87.953	2.3017	.118	-.351
10	21	85.204	95.285	89.067	2.7566	.330	-.543
11	21	82.629	94.833	89.015	3.5383	.197	-.895
12	19	80.452	94.257	89.040	3.5332	-.666	.080
13	21	81.959	96.158	89.312	3.4242	-.180	-.070
14	10	84.382	96.408	90.372	3.6301	.099	-.868

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	83.544	90.716	86.754	2.2083	.120	-1.133
6	20	83.213	90.610	87.181	2.1986	-.112	-1.143
7	23	83.700	91.236	87.667	1.9884	-.331	-.666
8	23	80.493	91.740	87.016	3.0397	-.427	-.662
9	22	82.337	91.310	87.746	2.5327	-.418	-.771
10	19	83.936	93.557	88.648	2.7988	.237	-.912
11	22	83.993	92.806	88.584	2.7883	-.036	-1.066
12	23	82.944	96.011	88.836	3.3374	.082	-.257
13	19	83.957	93.277	89.709	2.2019	-.621	.585
14	11	88.107	93.851	90.340	1.6343	.833	.165



ANGULAR MEASUREMENT VARIABLE 21



Frankfort Plane/Nasion-Pogonion Ricketts Analysis

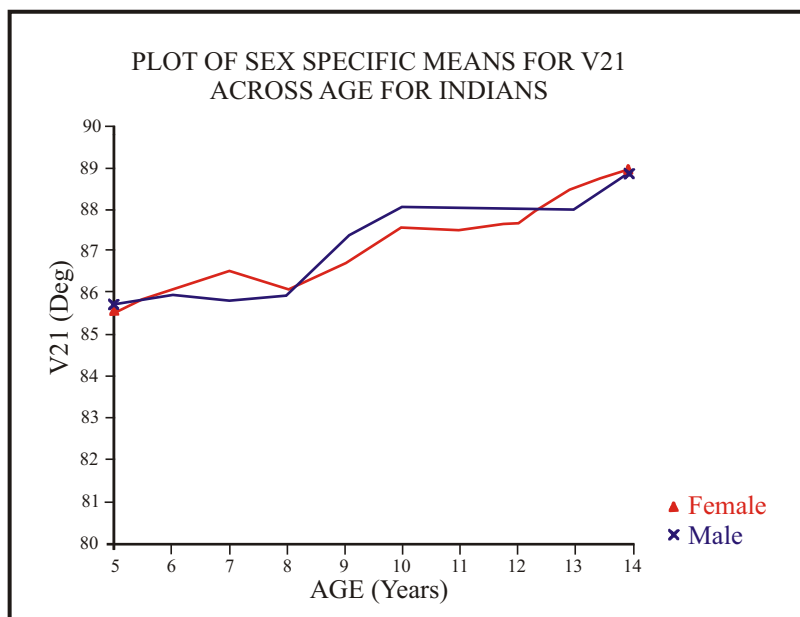
PG-N/PO-OR 3-38/49-40

Male Indian

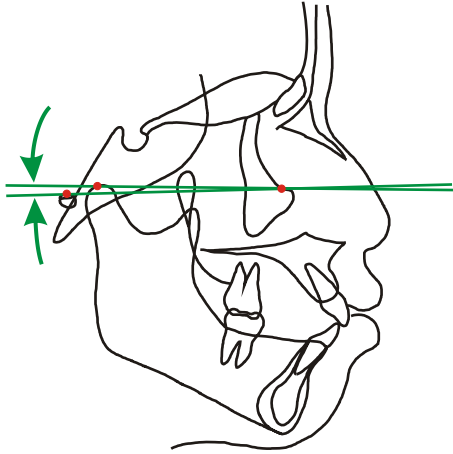
Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	14	78.827	90.198	85.709	3.1182	-.853	-.077
6	22	80.338	91.573	85.976	2.9671	-.145	-.783
7	20	80.785	92.079	85.808	3.1305	.106	-.931
8	23	81.027	92.773	85.968	3.2644	.455	-.311
9	23	81.918	94.322	87.418	2.8799	.482	.154
10	21	83.846	93.725	88.290	2.8969	.236	-.887
11	21	82.294	94.706	88.245	3.5393	.296	-.918
12	19	79.526	92.622	88.210	3.5147	-.815	.021
13	21	81.198	93.872	88.243	3.3234	-.319	-.113
14	10	83.044	94.346	89.211	3.6363	.018	-.877

Female Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	15	82.498	88.539	85.556	1.9039	-.089	-1.214
6	20	81.612	90.309	86.039	2.3041	-.035	-.845
7	23	82.582	90.514	86.613	1.9483	-.141	-.448
8	23	79.788	91.161	86.121	3.0129	-.387	-.679
9	22	82.196	90.859	86.811	2.5612	-.272	-.890
10	19	83.376	92.366	87.749	2.6201	.116	-.974
11	22	83.067	92.071	87.679	2.6871	-.109	-1.073
12	23	81.412	94.804	87.874	3.3138	-.110	-.322
13	19	83.987	92.216	88.829	2.1731	-.393	-.482
14	11	86.892	92.905	89.306	1.6284	.773	.398



ANGULAR MEASUREMENT VARIABLE 22



Frankfort Plane/Condylar Plane

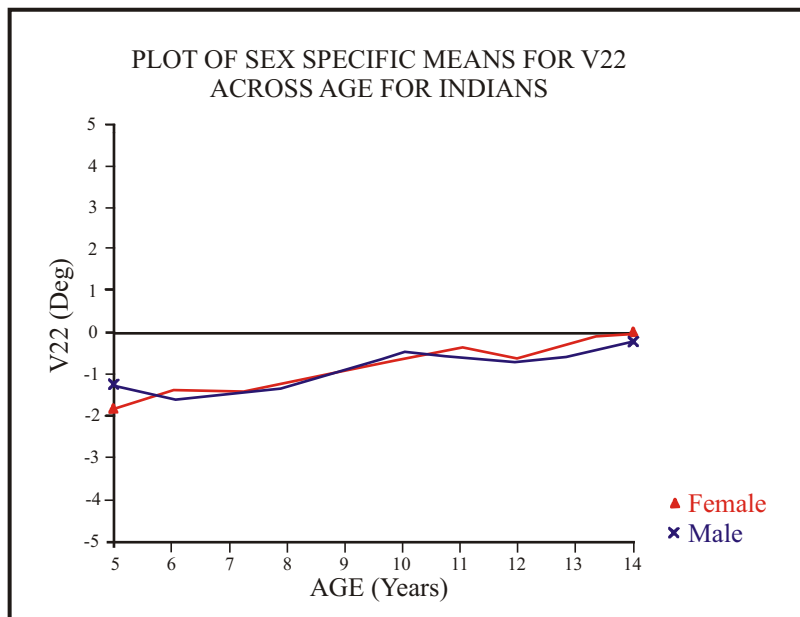
CO-OR/PO-OR 33-40/49-40

Male Indian

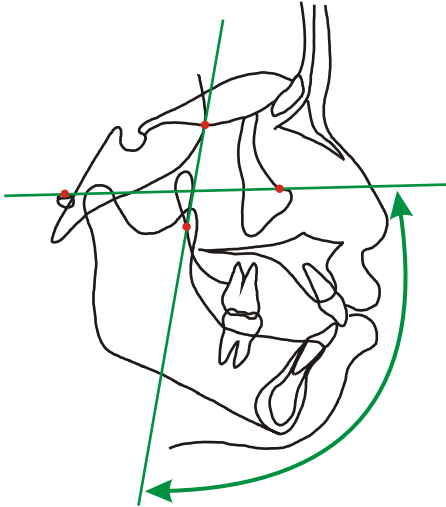
Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	14	-5.7974	1.1558	-1.3411	1.7358	-1.047	1.221
6	22	-4.0813	-.23682	-1.6486	1.1222	-.502	-.846
7	20	-4.8821	.87085	-1.4743	1.4725	-.594	-.277
8	22	-2.6272	.34814	-1.3363	.87700	.562	-.629
9	23	-4.2803	1.5598	-.92548	1.6747	-.647	-.534
10	21	-4.0967	2.1836	-.42828	1.6867	-.611	-.563
11	20	-2.8413	.62280	-.53724	.80238	-.988	1.448
12	19	-3.0200	1.5410	-.72195	1.2452	.202	-.798
13	21	-3.7112	1.8240	-.46905	1.5567	-.619	-.411
14	10	-2.0247	2.3386	-.98755	1.5252	.451	-.918

Female Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	14	-3.4170	-.45483	-1.8893	.86671	-.147	-1.013
6	20	-3.8469	1.4170	-1.4607	1.3556	.143	-.534
7	23	-4.3362	.83423	-1.5434	1.4893	-.452	-.930
8	23	-3.8318	1.3738	-1.2246	1.5849	.063	-1.103
9	22	-3.5994	1.5342	-.83808	1.2675	-.584	.156
10	19	-3.1807	2.5754	-.59946	1.6144	.028	-.768
11	22	-2.4766	2.0671	-.28684	1.2170	.050	-.780
12	23	-3.8159	3.0657	-.57722	1.6950	.192	-.597
13	20	-2.1479	1.5571	-.14441	.84562	-.303	.101
14	11	-1.7944	3.4558	.13725	1.4571	.866	.600



ANGULAR MEASUREMENT VARIABLE 23



Frankfort Plane/PM Vertical

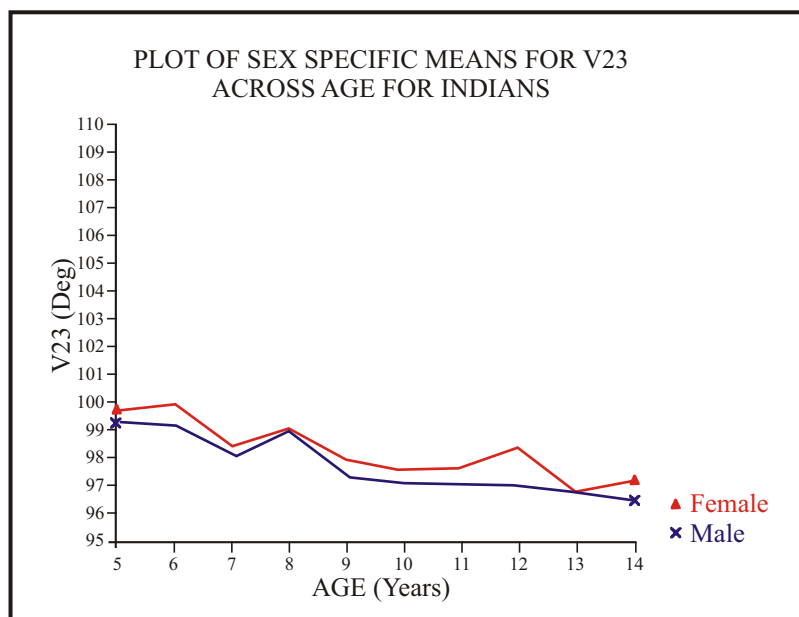
OR-PO/PTM-SE 40-49/43-36

Male Indian

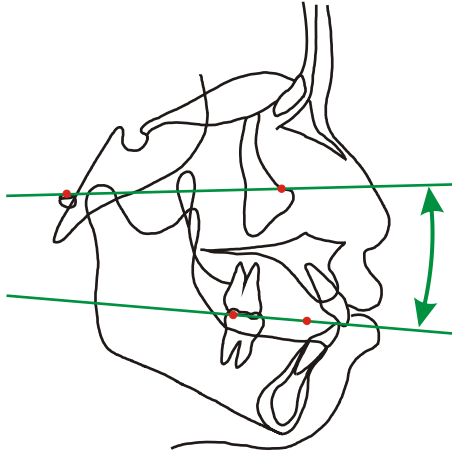
Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	14	89.868	110.78	99.262	5.2537	.111	.422
6	21	89.676	109.54	99.040	3.7387	.341	2.532
7	20	92.074	106.21	97.835	3.8955	.580	-.184
8	22	92.714	109.02	98.852	4.1745	.573	-.282
9	23	87.698	106.86	96.976	4.2629	.434	.318
10	21	88.393	102.87	96.722	4.2868	-.169	-1.050
11	21	89.409	104.97	96.726	3.9513	.253	-.152
12	19	89.667	107.45	96.590	4.3923	.652	.233
13	21	90.026	103.10	96.354	3.4714	.004	-.653
14	10	90.278	101.10	96.030	3.1660	-.002	-.335

Female Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	15	93.456	105.96	99.719	3.8598	-.274	-1.077
6	19	95.015	104.05	99.900	2.5466	-.404	-.801
7	23	87.339	106.57	98.216	4.3987	-.336	.103
8	22	94.800	106.11	98.906	3.4165	.699	-.571
9	22	90.546	102.78	97.670	3.1595	.043	-.276
10	19	91.272	103.66	97.226	3.7908	.335	-1.116
11	22	90.311	102.90	97.311	3.3503	-.074	-.493
12	23	92.684	103.71	98.153	3.2466	.145	-.872
13	20	91.457	100.87	96.358	2.6789	.216	-.910
14	11	89.988	101.14	96.872	3.1025	-.778	.252



ANGULAR MEASUREMENT VARIABLE 24



**Frankfort Plane/Functional
Occlusal Plane**

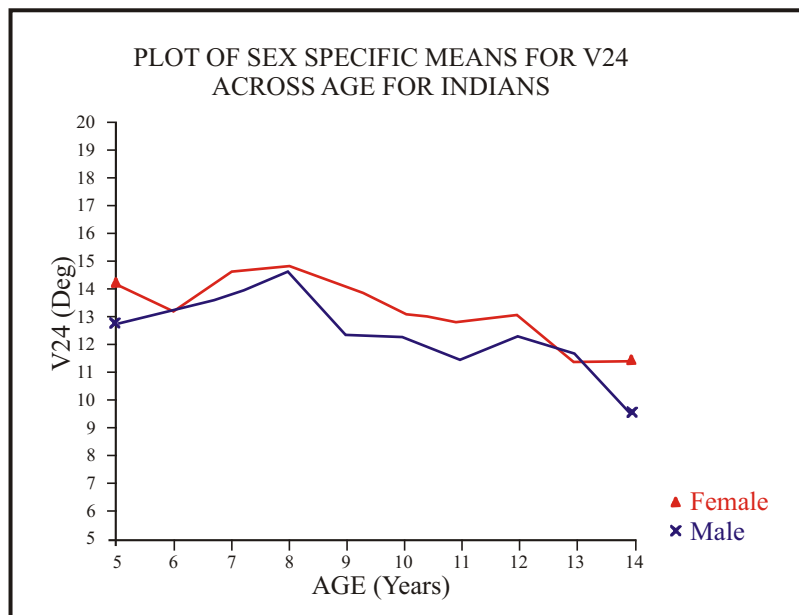
OR-PO/PMC-FPP 40-49/46-50

Male Indian

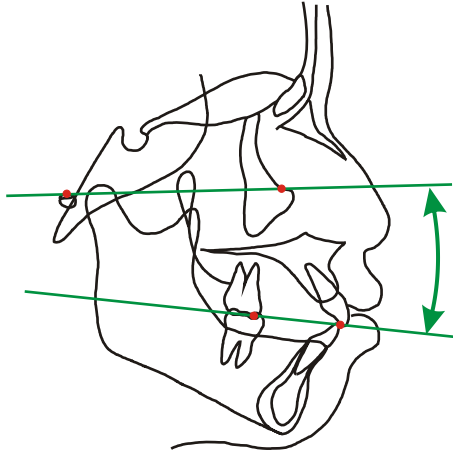
Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	14	5.1555	22.211	12.592	4.0931	.583	.655
6	22	6.9150	20.642	13.154	4.0995	.274	-.968
7	20	3.5786	22.960	13.766	4.9341	.031	-.469
8	23	8.2224	20.875	14.734	3.3549	-.090	-.805
9	23	5.2288	19.293	12.112	3.7637	.109	-.833
10	21	4.9976	21.208	11.994	3.7541	.174	.216
11	21	4.0879	16.899	11.157	3.7766	-.203	-1.029
12	18	6.2454	17.022	12.030	3.4163	-.048	-1.263
13	21	4.6560	19.280	11.320	3.6265	.496	-.101
14	10	2.6890	14.531	8.8767	4.0349	.035	-1.158

Female Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	15	8.4812	18.298	14.216	3.2990	-.306	-1.235
6	20	6.2427	19.662	13.090	3.8415	-.015	-.646
7	23	7.2874	19.541	14.704	3.0888	-.529	-.156
8	23	6.8896	23.719	14.938	3.5824	.106	.623
9	22	8.1736	19.270	14.056	3.0793	-.249	-.560
10	19	6.1145	20.384	13.041	3.6812	-.190	-.232
11	22	6.1035	19.034	12.600	3.6645	.073	-.832
12	23	6.1528	19.842	12.889	4.1919	.153	-1.168
13	20	4.7073	17.784	11.031	3.9012	-.014	-.893
14	11	7.6096	15.224	11.065	2.5406	.243	-1.241



ANGULAR MEASUREMENT VARIABLE 25



Frankfort Plane/Downs Occlusal Plane
Downs Analysis

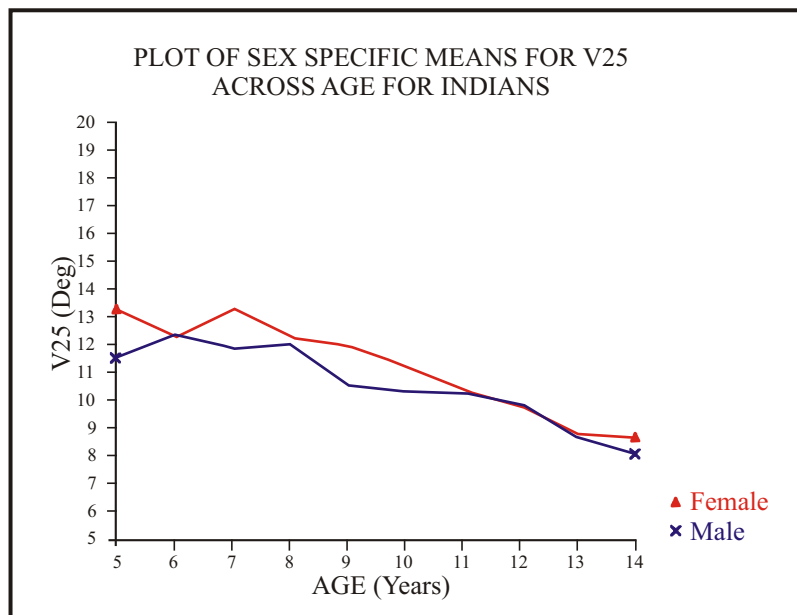
OR-PO/ADP-PDP 40-49/56-57

Male Indian

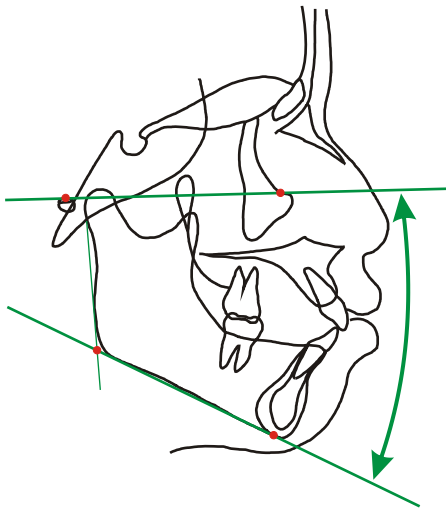
Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	14	3.5264	29.011	11.324	7.0328	1.156	.862
6	22	5.0139	19.308	12.274	3.8722	.010	-.651
7	20	2.3564	21.874	11.710	5.2765	-.041	-.676
8	23	1.5493	19.251	11.846	4.8248	-.453	-.506
9	23	.52612	16.951	10.301	4.3367	-.448	-.708
10	20	4.5303	14.938	10.048	2.9655	-.179	-.916
11	21	2.3889	16.548	10.044	3.8141	-.221	-.849
12	19	4.1897	19.544	9.5367	4.0438	.692	-.058
13	20	2.5752	16.280	8.2158	3.1403	.393	.676
14	10	1.6919	15.945	7.6793	4.3679	.622	-.515

Female Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	15	5.5330	18.580	13.249	3.4331	-.609	-.103
6	20	2.1721	19.588	12.211	4.3295	-.412	-.364
7	23	6.8857	18.654	13.307	3.3550	-.403	-.602
8	23	4.1951	18.938	12.196	3.6101	-.326	.012
9	22	7.4692	17.519	11.816	3.2449	.402	-1.245
10	19	6.9399	16.552	11.092	2.9052	-.160	-1.145
11	22	.40991	18.410	10.186	4.3323	-.415	-.173
12	23	1.5310	15.514	9.4875	4.1068	-.328	-.912
13	20	1.5759	16.943	8.3645	3.7934	.250	-.295
14	11	3.7852	13.539	8.3356	2.9261	.156	-.839



ANGULAR MEASUREMENT VARIABLE 26



**Frankfort Plane/Mandibular
Plane
Downs Analysis/Tweed Analysis**

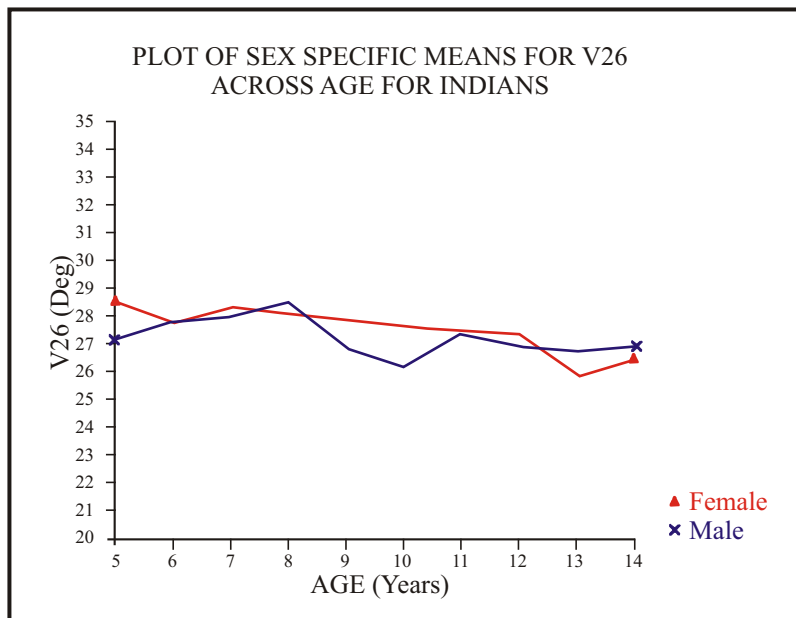
OR-PO/ME-GOI 40-49/1-28

Male Indian

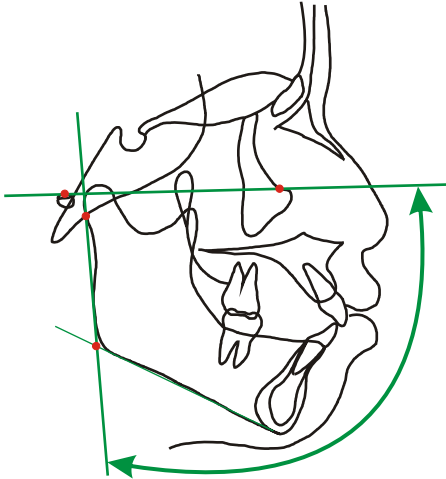
Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	14	15.448	36.256	27.071	6.4365	-.428	-.633
6	22	17.045	35.367	27.786	5.1349	-.561	-.199
7	20	14.324	38.572	27.975	6.3030	-.528	-.219
8	23	17.913	37.477	28.617	5.2283	-.407	-.435
9	23	13.532	36.882	26.766	5.5167	-.510	.297
10	21	14.059	36.876	26.052	6.0268	-.167	-.568
11	21	17.699	36.182	27.383	4.9995	-.238	-.530
12	19	14.085	36.832	26.698	6.0284	-.404	-.300
13	20	20.136	33.551	26.545	3.6780	.228	-.814
14	10	15.601	37.758	26.741	6.4314	-.182	-.527

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	25.593	33.927	28.371	2.3388	1.300	.892
6	20	19.561	34.127	27.740	3.5931	-.183	-.350
7	22	23.571	31.761	28.364	2.2257	-.363	-.567
8	22	23.139	33.988	28.179	2.8416	.403	-.275
9	21	22.442	34.349	27.981	3.0107	.085	-.437
10	19	22.646	34.308	27.634	3.1644	.109	-.598
11	22	21.511	34.978	27.423	3.7058	.163	-.820
12	23	21.588	35.262	27.147	3.7560	.131	-.784
13	20	18.059	34.081	25.610	3.8712	.226	-.168
14	11	22.801	31.938	26.178	2.5819	.721	.377



ANGULAR MEASUREMENT VARIABLE 27



Frankfort Plane/Gonial Inter-section -Articulare Posterior

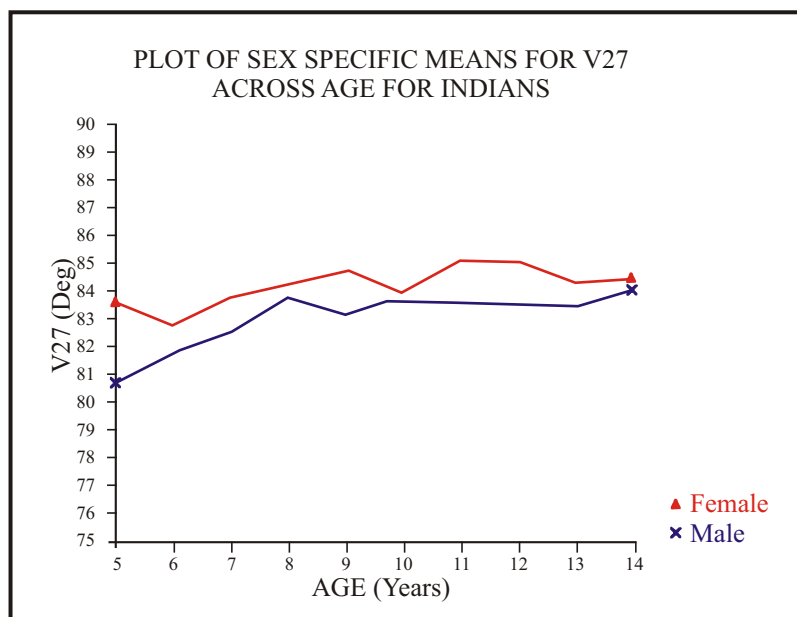
OR-PO/GOI-AR 40-49/28-31

Male Indian

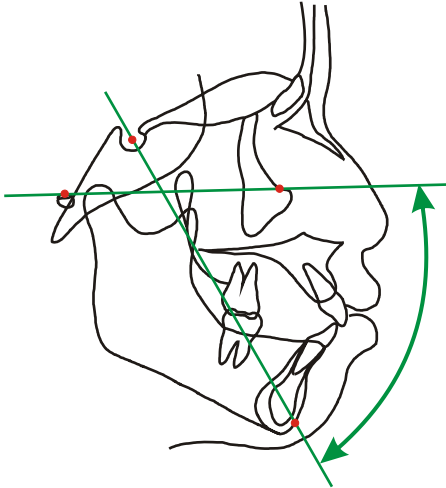
Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	14	68.751	91.625	80.511	6.8547	-.239	-.699
6	22	70.166	89.069	81.678	4.8687	-.781	.381
7	20	72.595	91.631	82.563	4.8672	-.455	-.061
8	22	77.516	90.915	84.021	3.8971	-.040	-.837
9	22	75.518	89.286	83.344	3.6405	-.538	-.296
10	20	76.887	91.637	83.666	3.3628	-.052	.395
11	20	76.641	88.188	83.611	3.6560	-.412	-1.065
12	19	72.134	91.844	83.589	5.1231	-.711	-.176
13	21	72.171	92.680	83.419	4.8748	-.514	.317
14	10	77.182	91.751	84.169	4.4393	-.201	-.517

Female Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	15	78.621	89.248	83.811	3.0153	.248	-.780
6	20	76.803	87.913	82.832	3.2966	-.298	-1.029
7	23	76.002	91.671	83.992	3.9142	-.245	-.484
8	22	77.630	90.946	84.557	3.7012	-.158	-.857
9	21	79.248	90.813	85.013	3.6477	-.211	-1.220
10	19	77.321	90.768	83.973	4.0447	.074	-.855
11	22	76.687	92.083	85.285	3.8297	-.187	-.371
12	23	74.424	95.477	85.255	4.5774	.051	.295
13	19	78.104	92.616	84.425	3.4544	.622	.261
14	11	80.542	88.228	84.547	2.8771	-.284	-1.330



ANGULAR MEASUREMENT VARIABLE 28



Frankfort Plane/Sella-Gnathion Downs Analysis

OR-PO/GN-S

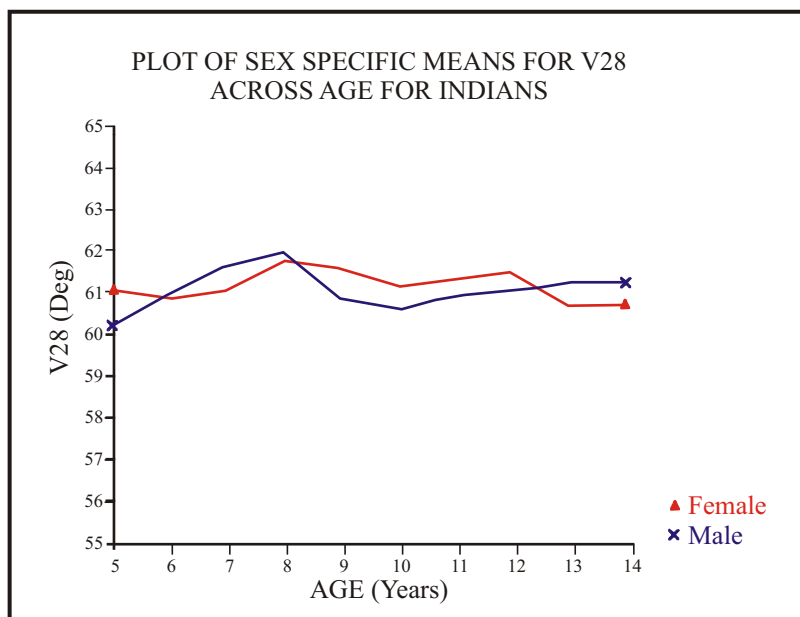
40-49/2-35

Male Indian

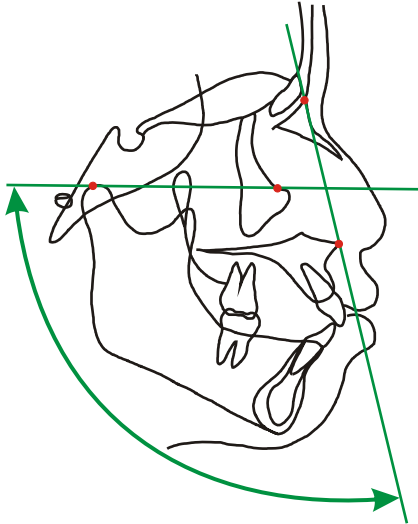
Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	14	53.709	67.426	60.028	3.9746	.541	-.607
6	22	56.127	67.051	60.940	3.2543	.475	-.939
7	20	56.124	68.155	61.677	3.7949	.350	-1.168
8	23	54.159	67.651	62.037	3.5529	-.193	-.443
9	23	55.212	66.853	60.784	3.2961	-.009	-.654
10	21	54.786	67.016	60.559	3.5040	.118	-.817
11	21	53.940	68.266	60.985	3.7934	-.166	-.591
12	19	55.557	70.502	61.021	4.0070	.625	-.136
13	21	55.544	69.990	61.311	3.7071	.854	.181
14	10	54.475	69.408	61.285	4.3229	.382	-.490

Female Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	15	57.709	65.104	60.881	1.9763	.307	-.327
6	20	55.730	65.121	60.777	2.7601	-.324	-.932
7	23	56.835	66.022	61.026	2.3089	.305	-.257
8	23	56.786	69.046	61.784	3.0024	.852	.467
9	22	56.417	67.586	61.604	3.2489	.148	-.943
10	19	56.917	65.865	61.161	2.8203	.144	-1.094
11	22	55.026	68.314	61.363	3.4890	.267	-.676
12	23	56.304	67.801	61.557	3.7676	.321	-1.224
13	20	55.215	66.591	60.663	3.4200	.049	-1.042
14	11	55.809	64.500	60.703	2.5935	-.557	-.515



ANGULAR MEASUREMENT VARIABLE 29



**Condylar Plane/Nasion-Anterior
Nasal Spine**

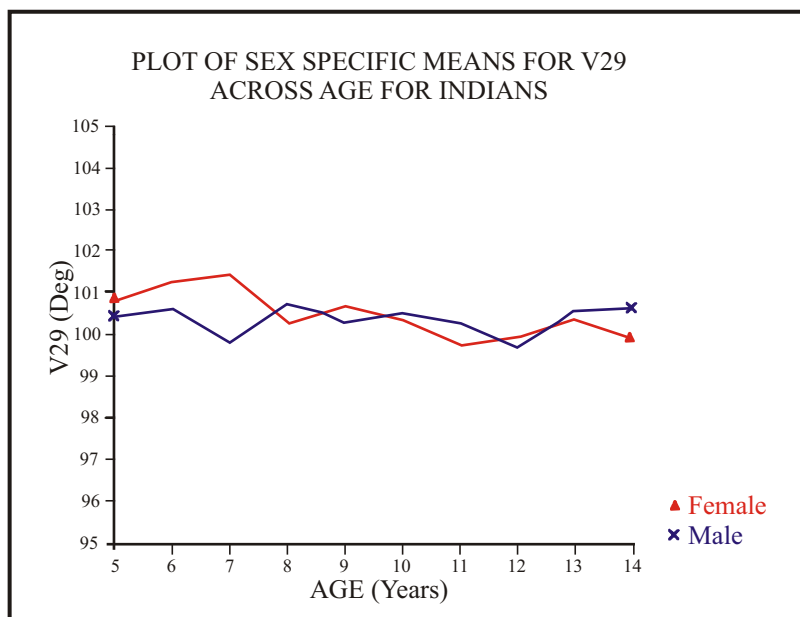
ANS-N/CO-OR 10-38/33-40

Male Indian

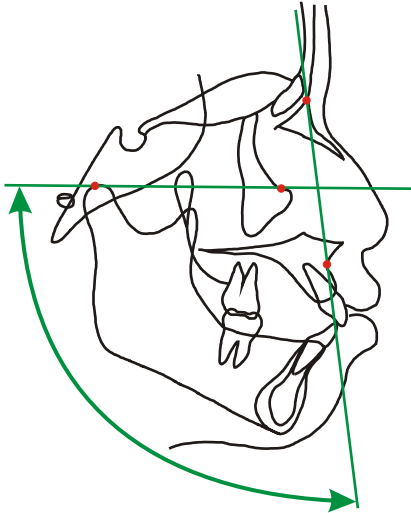
Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	14	93.948	105.51	100.42	3.5818	-.525	-.904
6	22	95.824	105.76	100.64	2.7661	.056	-.707
7	19	97.147	103.73	99.723	1.7035	.694	-.063 *
8	23	96.086	106.57	100.79	3.1524	.244	-1.034
9	23	97.250	105.20	100.27	1.9853	.558	.059
10	21	97.850	105.00	100.49	1.9159	.684	-.316
11	20	96.831	104.42	100.21	1.9646	.044	-.594
12	19	94.619	104.43	99.566	2.1656	-.037	.533
13	20	95.757	105.52	100.54	2.7222	-.030	-.811
14	10	95.998	107.61	100.61	4.0986	.199	-1.218

Female Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	15	96.130	105.71	100.89	2.8420	.158	-.692
6	20	94.029	106.72	101.33	3.1502	-.260	.020
7	23	94.402	107.54	101.54	3.6193	-.242	-.648
8	23	94.706	107.73	100.23	3.1892	.062	-.235
9	22	97.277	104.34	100.69	2.0925	-.095	-.920
10	19	94.051	107.92	100.30	3.6070	.223	-.475
11	22	93.369	103.80	99.645	2.9707	-.247	-.543
12	23	91.465	107.28	99.858	3.7195	-.070	-.242
13	19	96.353	105.07	100.33	2.1925	.054	-.410
14	11	96.747	104.22	99.830	2.3644	.553	-.553



ANGULAR MEASUREMENT VARIABLE 30



Condylar Plane/Nasion-A Point

A-N/CO-OR

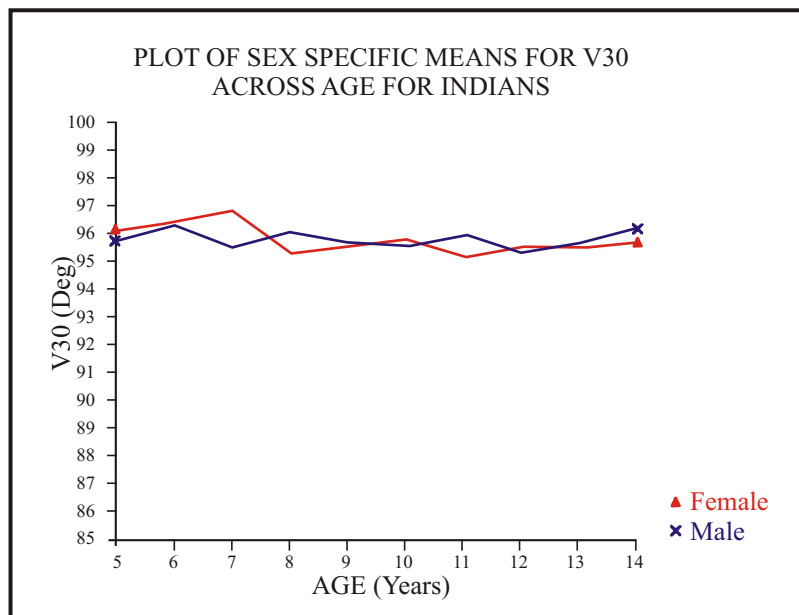
9-38/33-40

Male Indian

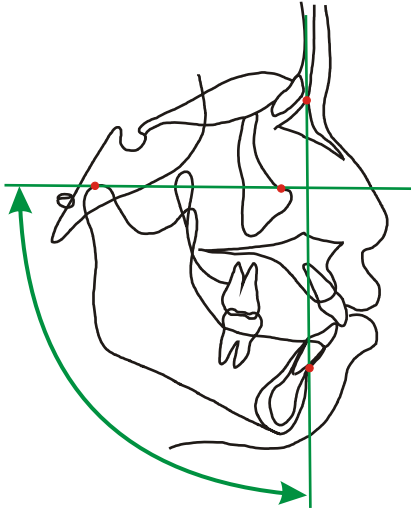
Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	14	89.805	99.883	95.647	2.9714	-.494	-.695
6	22	92.053	102.69	96.199	2.6598	.828	.196
7	19	92.529	98.858	95.354	1.8017	.377	-.531 *
8	23	91.679	102.57	95.971	2.9665	.566	-.408
9	22	91.546	98.938	95.532	1.8563	-.100	-.535
10	20	92.581	98.686	95.484	1.6043	.279	-.583
11	20	93.168	99.152	95.842	1.7391	-.081	-.918
12	19	90.398	98.895	95.235	2.3575	-.490	-.596
13	21	91.616	102.37	95.582	2.8446	.487	-.291
14	10	92.770	103.36	96.133	3.3978	.821	-.041

Female Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	15	92.201	101.76	96.066	2.6775	.621	-.330
6	20	90.491	100.83	96.399	2.8270	-.229	-.342
7	23	90.917	101.72	96.772	2.8432	-.092	-.595
8	22	90.156	99.109	95.173	2.6573	-.279	-.845
9	22	92.280	99.604	95.402	1.9132	-.041	-.484
10	19	89.656	102.94	95.656	3.3368	.219	-.286
11	22	90.154	99.407	94.997	2.6454	.019	-.672
12	23	89.177	102.97	95.298	3.3182	.419	-.120
13	19	91.092	98.531	95.379	1.8633	-.957	.721
14	11	92.637	99.495	95.585	2.3410	.250	-1.145



ANGULAR MEASUREMENT VARIABLE 31



Condylar Plane/Nasion-B Point

B-N/CO-OR

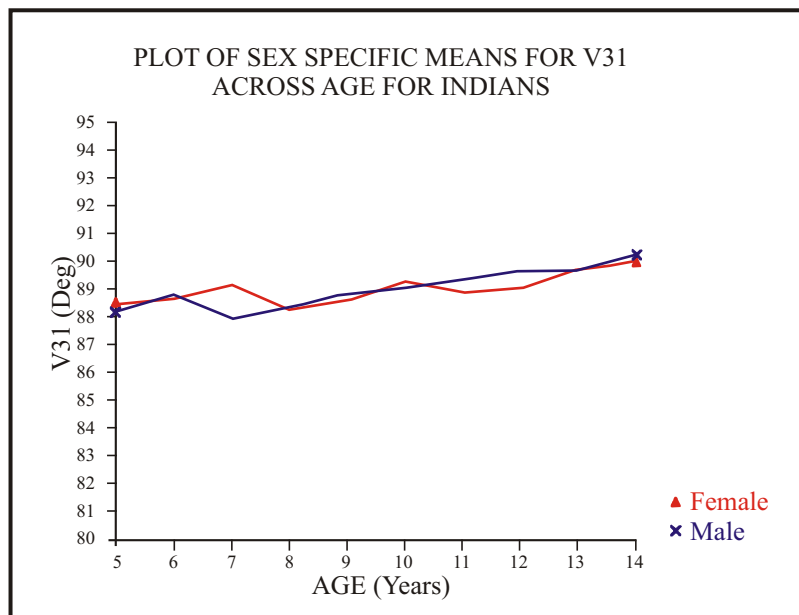
4-38/33-40

Male Indian

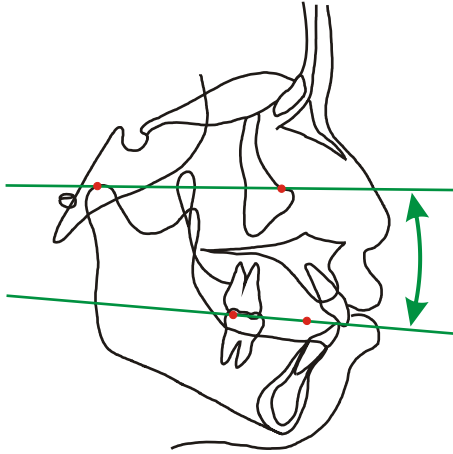
Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	14	82.132	91.301	88.100	2.8715	-.608	-.718
6	22	82.736	97.307	88.818	3.2890	.442	.559
7	19	83.870	91.511	87.824	2.4998	-.091	-1.341
8	23	83.477	96.347	88.301	3.3907	.461	-.382
9	22	83.805	93.652	88.837	2.6665	-.267	-.590
10	20	85.078	92.312	89.051	2.2880	-.294	-1.340
11	21	82.291	94.908	89.434	3.2685	-.100	-.389
12	19	82.648	95.720	89.762	3.5048	-.349	-.253
13	21	83.719	97.412	89.781	3.2297	.333	-.091
14	10	86.407	98.148	90.471	3.2984	1.220	1.039

Female Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	15	84.528	93.000	88.415	2.4621	.074	-.686
6	20	84.038	92.355	88.642	2.4487	-.320	-.922
7	23	84.819	93.363	89.211	2.4393	-.261	-.978
8	23	84.325	93.575	88.240	2.4152	.185	-.788
9	22	84.175	92.885	88.584	2.2718	-.079	-.748
10	19	84.752	96.626	89.248	3.0235	.718	.321
11	22	83.872	93.074	88.870	2.4092	-.334	-.562
12	22	84.218	93.594	89.074	2.4343	-.329	-.515
13	19	86.105	93.565	89.819	2.1109	.216	-.749
14	11	86.092	92.468	90.202	1.8537	-.722	.253



ANGULAR MEASUREMENT VARIABLE 32



**Condylar Plane/Functional
Occlusal Plane**

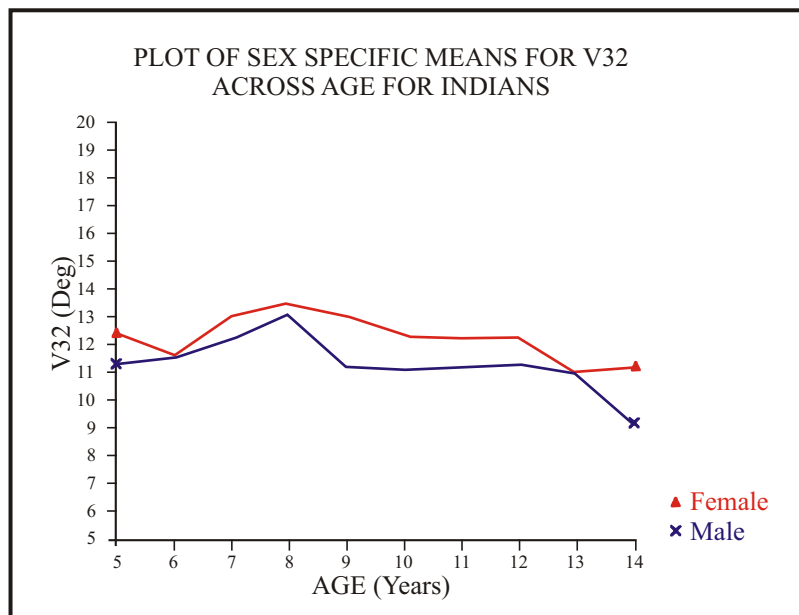
OR-CO/PMC-FPP 40-33/46-50

Male Indian

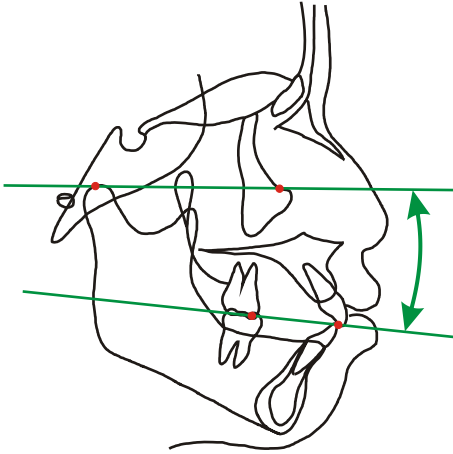
Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	14	5.0422	19.320	11.250	3.6223	.581	.124
6	22	4.3545	19.733	11.506	4.2120	.149	-.786
7	20	2.8457	22.706	12.291	4.8773	.258	-.232
8	23	5.8994	18.881	13.240	3.2526	-.162	-.524
9	23	1.3596	18.780	11.187	3.9327	-.278	.199 *
10	20	5.8516	16.303	11.063	3.1113	.086	-.984
11	20	5.2656	17.237	11.131	3.3648	.031	-.832
12	18	5.2554	17.019	11.272	3.5282	-.008	-1.190
13	21	6.4800	17.139	10.851	3.0795	.598	-.723
14	10	4.4517	12.900	8.7779	3.1184	-.121	-1.418 *

Female Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	15	6.8823	16.882	12.555	3.0909	-.366	-1.072
6	20	4.5242	20.117	11.629	4.2622	.333	-.664
7	23	7.2368	18.813	13.160	3.2655	-.176	-.752
8	23	5.9661	20.499	13.714	3.3529	-.289	.013
9	22	7.7783	19.171	13.218	2.6838	.216	.365
10	19	5.7493	18.411	12.442	3.6542	-.440	-.753
11	22	6.2693	18.813	12.313	3.6609	-.138	-.913
12	23	5.2737	19.213	12.312	3.6889	.103	-.778
13	20	3.9189	18.531	10.887	4.1618	-.174	-.877
14	11	7.7627	15.959	11.203	2.6384	.335	-.949



ANGULAR MEASUREMENT VARIABLE 33



**Condylar Plane/Downs Occlusal
Plane**

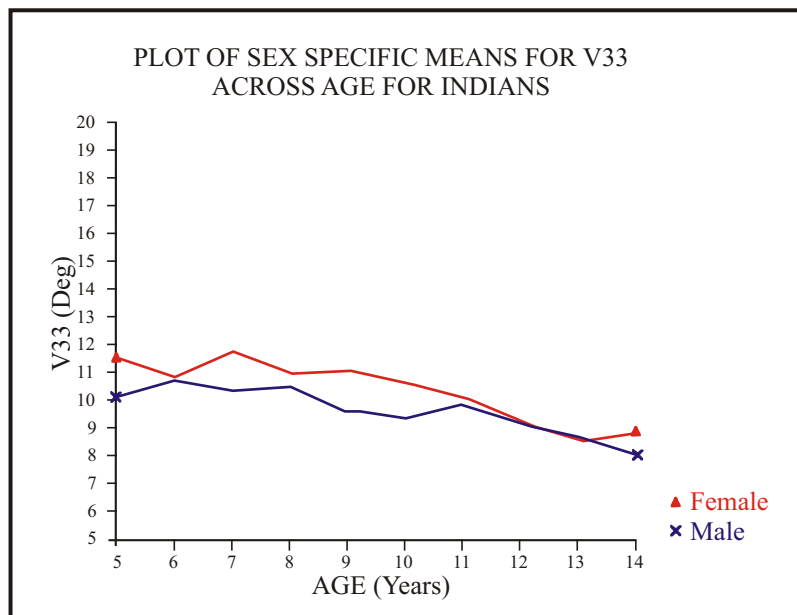
OR-CO/ADP-PDP 40-33/56-57

Male Indian

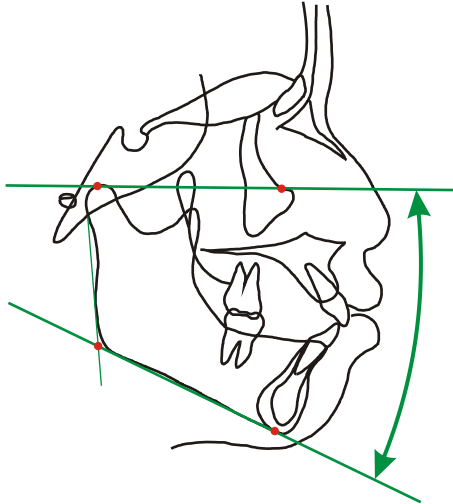
Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	14	2.0691	26.119	9.9830	6.9103	.962	.183
6	22	3.7957	17.122	10.626	3.7353	.042	-.715
7	20	2.2678	20.132	10.235	4.8528	.202	-.769
8	23	.93677	17.455	10.353	4.7290	-.234	-.798
9	23	.63696	17.907	9.3750	4.3159	-.039	-.654
10	21	.41064	15.049	9.1197	3.6002	-.475	-.293
11	21	4.0969	16.886	9.6252	3.5693	.109	-.889
12	19	3.4084	17.348	8.8148	4.1622	.540	-.810
13	21	2.3582	17.542	8.2928	3.7370	.530	.277
14	10	2.5884	13.921	7.5806	3.5545	.590	-.508

Female Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	15	5.0781	15.662	11.588	2.8785	-.677	-.014
6	20	.42212	18.763	10.751	4.5601	-.264	-.237
7	23	5.5469	17.337	11.763	3.3834	-.074	-1.105
8	23	4.2332	16.130	10.972	3.1836	-.381	-.191
9	22	7.1953	17.420	10.978	2.9563	.533	-.717
10	19	4.0752	16.839	10.493	3.0055	-.221	.123
11	22	.93188	18.531	9.8991	4.2767	-.119	-.323
12	23	1.2871	14.857	8.9103	3.6364	-.567	-.398
13	20	.36060	17.093	8.2201	4.0821	.218	-.217
14	11	4.0659	13.445	8.4729	2.7981	.247	-.829



ANGULAR MEASUREMENT VARIABLE 34



Condylar Plane/Mandibular Plane

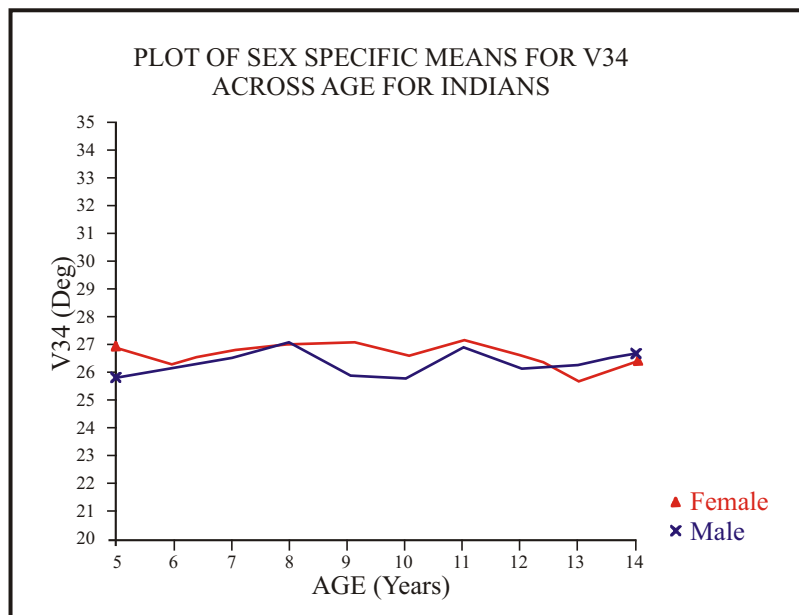
OR-CO/ME-GOI 40-33/1-28

Male Indian

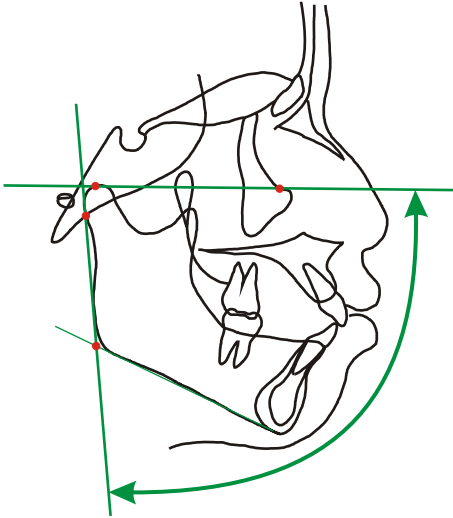
Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	14	16.112	34.115	25.730	5.5724	-.134	-.861
6	22	16.019	33.979	26.137	4.8956	-.469	-.391
7	20	13.930	36.030	26.500	5.8025	-.337	-.428
8	23	17.919	36.086	27.124	4.8838	-.016	-.753
9	23	13.733	37.838	25.840	5.4528	.076	.227
10	21	13.713	36.752	25.624	5.6864	-.029	-.192
11	21	19.283	36.064	26.969	4.6735	.042	-.418
12	19	15.161	36.536	25.976	5.7655	-.212	-.474
13	20	21.823	32.365	26.159	3.3795	.490	-.991
14	10	17.939	35.733	26.642	5.0829	.002	-.439

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	23.344	31.201	26.714	2.2900	.360	-.517
6	20	19.143	34.641	26.280	3.5765	.405	.117
7	22	23.060	30.365	26.779	2.3067	.053	-1.100
8	22	22.439	30.504	27.056	2.2381	-.253	-.729
9	21	22.168	31.975	27.124	2.5302	-.055	-.625
10	18	22.503	31.302	26.581	2.5357	.161	-.780
11	22	21.886	34.473	27.136	3.5687	.200	-.764
12	23	20.941	32.780	26.569	3.2109	.203	-.552
13	20	16.843	34.645	25.466	4.0620	.179	.333
14	11	23.245	32.673	26.315	2.9137	1.046	.193



ANGULAR MEASUREMENT VARIABLE 35



**Condylar Plane/Articulare,
Posterior-Gonial Intersection**

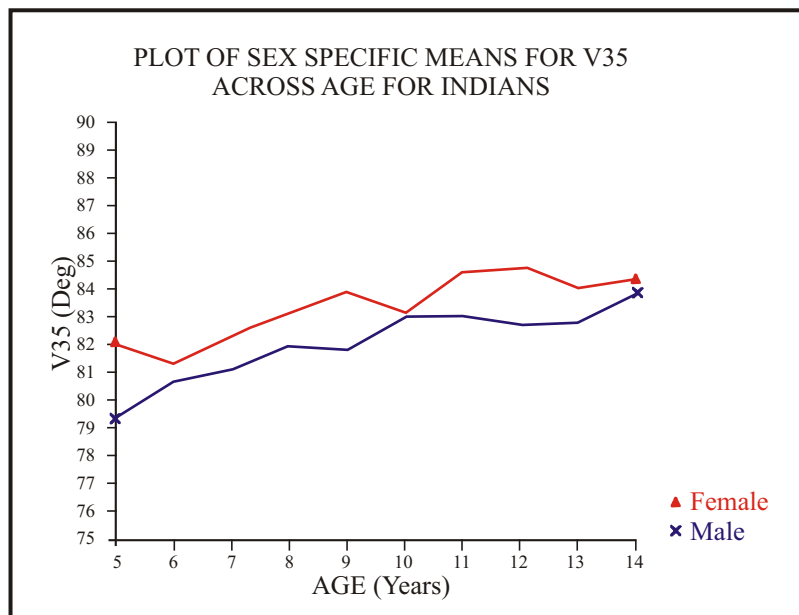
OR-CO/GOI-AR 40-33/28-31

Male Indian

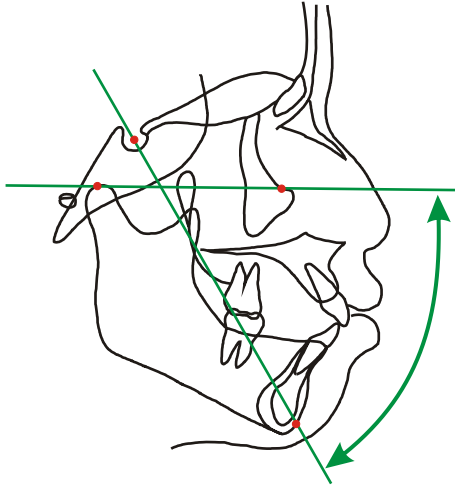
Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	14	67.752	88.734	79.170	6.8429	-.274	-1.017
6	21	69.165	87.759	80.582	4.1528	-.723	.975
7	20	70.954	89.217	81.089	4.7061	-.496	-.346
8	23	71.309	90.226	82.001	4.6887	-.272	-.248
9	23	71.594	89.098	81.872	4.3768	-.644	.027
10	20	76.070	87.540	83.178	2.9430	-.783	-.178
11	20	75.440	88.099	83.184	3.5602	-.622	-.519
12	19	72.061	88.824	82.867	4.7557	-1.046	.054
13	21	72.192	90.539	82.950	4.4053	-.671	.516
14	10	76.613	89.727	84.070	4.1213	-.294	-.798

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	77.657	86.841	82.149	2.7609	.094	-.762
6	20	75.068	86.201	81.371	3.0455	-.670	-.444
7	23	75.952	88.297	82.449	3.8814	-.169	-1.019
8	22	75.795	87.725	83.373	3.5935	-.396	-1.124
9	21	77.972	92.347	84.210	3.6847	.093	-.453
10	19	74.587	91.384	83.373	4.5532	-.201	-.563
11	22	76.083	91.918	84.998	4.0024	-.230	-.320
12	22	80.351	93.317	85.183	3.5097	.503	-.427
13	19	76.888	90.468	84.315	3.4185	-.047	-.339
14	11	80.093	87.963	84.684	2.4092	-.534	-.730



ANGULAR MEASUREMENT VARIABLE 36



Condylar Plane/Sella-Gnathion

OR-CO/GN-S

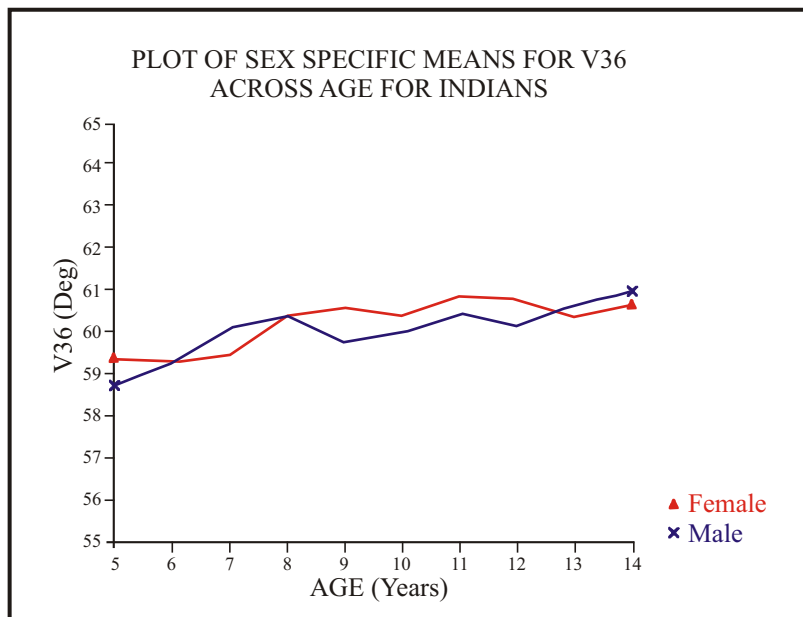
40-33/2-35

Male Indian

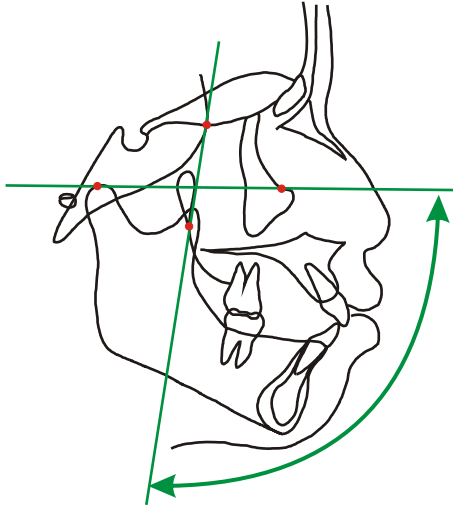
Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	14	53.596	65.422	58.687	3.5945	.685	-.640
6	22	53.708	65.241	59.291	3.2590	.351	-.965
7	20	55.652	66.204	60.202	3.5593	.477	-1.173
8	23	54.440	66.261	60.544	3.5411	.182	-1.095
9	23	55.443	67.809	59.859	3.3742	.757	-.158
10	21	55.640	66.892	60.130	3.3964	.562	-.852
11	21	53.682	68.604	60.570	3.6054	.102	-.007
12	19	55.282	68.306	60.299	3.8422	.686	-.190
13	21	55.225	67.848	60.841	3.3783	.529	-.321
14	10	56.813	67.383	61.186	3.3878	.536	-.815

Female Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	15	56.110	62.405	59.224	1.8971	-.075	-1.040
6	20	53.980	65.634	59.317	2.7298	.153	.219
7	23	55.839	65.382	59.482	2.4985	.550	-.164
8	23	57.066	65.592	60.560	2.3484	.371	-.755
9	22	55.174	67.136	60.766	3.0099	.165	-.357
10	19	55.665	66.447	60.562	2.9995	.295	-.371
11	22	54.421	67.938	61.076	3.4834	.122	-.338
12	23	55.425	67.351	60.980	3.2531	.200	-.942
13	20	54.000	66.354	60.518	3.5848	-.200	-.932
14	11	55.178	65.235	60.841	2.5611	-.631	.707



ANGULAR MEASUREMENT VARIABLE 37



Condylar Plane/PM Vertical

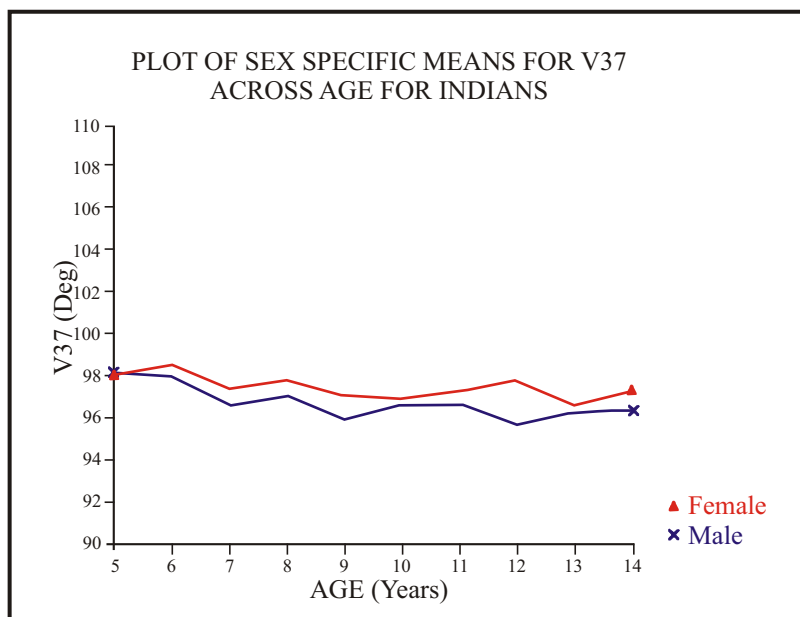
OR-CO/PTM-SE 40-33/43-36

Male Indian

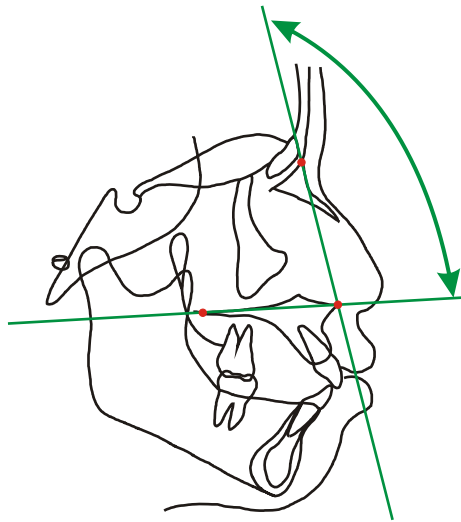
Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	89.755	107.89	98.090	4.7023	-.082	.036
6	22	87.256	108.53	97.905	4.6042	.560	1.454
7	20	88.730	105.44	96.361	3.9630	.626	.666
8	23	85.647	107.23	96.772	4.6974	-.033	.254
9	22	87.343	104.40	95.577	3.4896	.283	1.117
10	21	89.890	102.64	96.293	3.7130	.220	-.792
11	21	88.732	103.86	96.307	3.6728	.091	.302
12	18	88.445	100.30	95.257	3.2157	-.195	-.384 *
13	21	90.327	102.62	95.885	3.5344	.318	-.659
14	10	90.969	99.869	95.931	2.7775	-.224	-.683

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	90.670	105.00	98.058	4.0215	-.259	-.783
6	19	91.822	103.47	98.518	3.1629	-.376	-.666
7	22	87.661	103.61	97.246	3.9784	-.184	.017
8	22	91.903	103.98	97.668	3.5002	.396	-1.143
9	22	88.795	104.31	96.832	3.4467	.015	.366
10	19	88.345	103.25	96.627	4.2054	.162	-.842
11	22	91.750	102.25	97.024	2.9038	.246	-.877
12	23	91.824	103.04	97.576	3.2564	-.139	-.897
13	20	91.819	100.40	96.214	2.7254	.186	-1.261
14	11	90.723	102.64	97.010	3.3680	-.201	-.413



ANGULAR MEASUREMENT VARIABLE 38



**Palatal Plane/Nasion-Anterior
Nasal Spine**

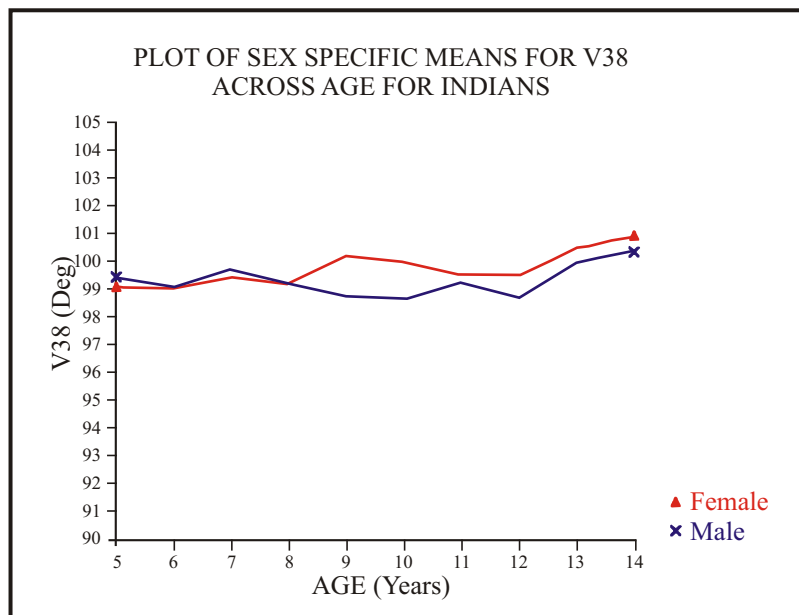
N-ANS/ANS-PNS 38-10/10-45

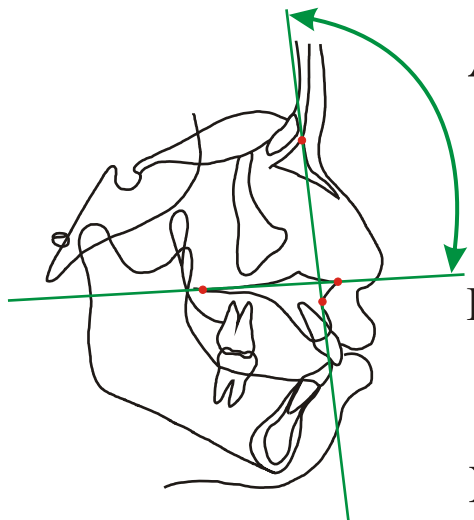
Male Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	14	93.341	103.62	99.459	2.7413	-.487	.112
6	22	92.729	106.57	99.390	3.1983	-.015	.373
7	20	92.121	107.67	99.749	3.5805	.150	.042
8	23	93.220	104.51	99.196	2.9644	-.143	-.533
9	23	94.017	103.85	98.652	2.6233	.003	-.702
10	21	93.783	103.02	98.550	2.6779	-.144	-.955
11	21	93.451	104.77	99.134	2.8754	-.009	.172
12	19	94.104	102.31	98.565	2.2785	-.150	-.824
13	20	95.084	105.12	99.939	2.8980	-.030	-.928
14	10	92.971	105.88	100.46	4.8980	-.414	-1.470

Female Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	14	95.522	102.42	99.073	2.1400	.125	-.822
6	20	94.279	103.78	98.965	2.5257	.002	-.604
7	23	93.518	104.04	99.410	3.2165	-.442	-1.062
8	23	91.638	104.31	99.157	3.2914	-.429	-.180
9	22	95.500	106.01	100.29	2.7732	.308	-.515
10	19	92.706	108.39	100.01	3.5464	.064	.434
11	21	93.518	104.70	99.491	3.1337	-.177	-.693
12	22	94.107	104.20	99.458	3.0092	-.115	-.967
13	20	92.458	108.97	100.53	4.0090	.150	-.290
14	11	92.481	106.15	100.98	3.9287	-.764	.033





ANGULAR MEASUREMENT VARIABLE 39

Palatal Plane/Nasion-A Point

N-A/ANS-PNS

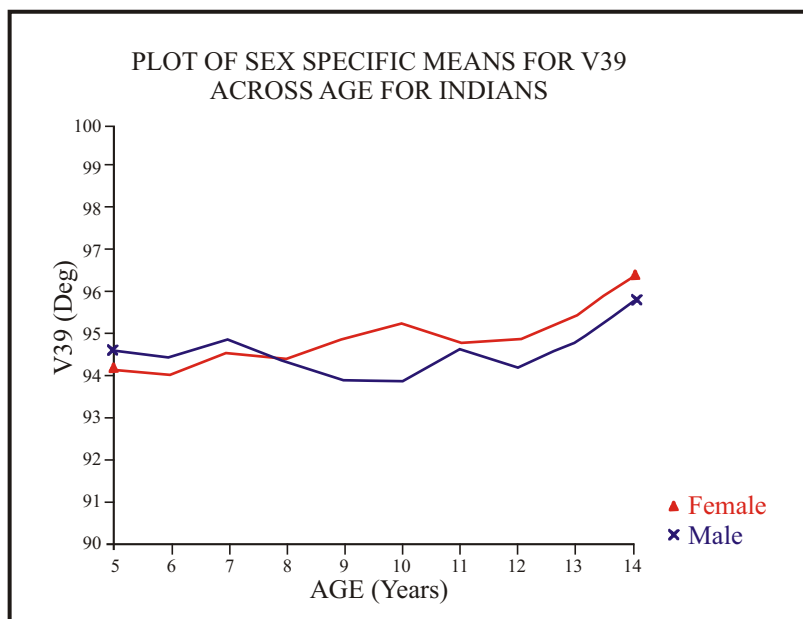
38-9/10-45

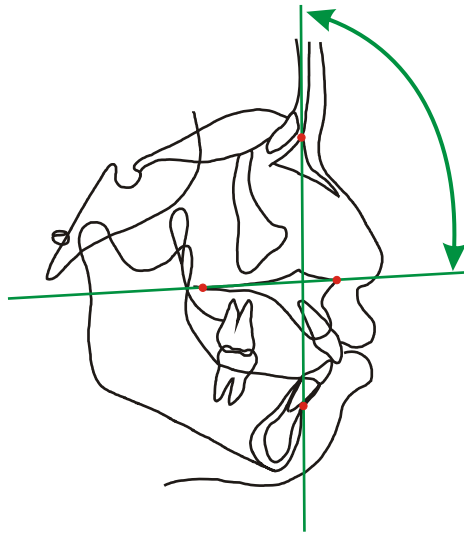
Male Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	14	90.003	98.377	94.691	2.5213	-.274	-.738
6	22	90.523	104.21	94.962	3.2228	.962	1.104
7	19	89.508	99.990	94.963	2.8566	-.182	-.778
8	23	89.624	101.15	94.382	3.0361	.340	-.445
9	22	90.338	97.865	93.901	2.0699	-.082	-.763
10	21	88.616	97.562	93.870	2.5276	-.382	-.857
11	21	89.788	100.40	94.740	2.7568	.152	-.335
12	19	89.939	99.167	94.234	2.1295	.155	.241
13	21	89.920	99.571	94.924	2.9328	.046	-.942
14	10	89.607	101.64	95.985	3.9270	-.324	-1.098

Female Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	14	91.470	97.021	94.188	1.8035	.202	-.941
6	20	88.985	99.551	94.030	2.4582	.160	-.015
7	23	88.474	98.647	94.639	2.5987	-.569	-.223
8	23	87.834	99.914	94.446	3.2787	-.220	-.553
9	22	88.919	99.003	95.001	2.6953	-.332	-.358
10	19	88.312	102.09	95.366	3.2591	-.238	.060
11	21	89.476	100.28	94.892	2.8660	-.132	-.798
12	22	90.642	99.839	94.958	2.6997	.060	-1.102
13	20	88.270	104.14	95.584	3.7876	.109	.154
14	11	89.202	102.28	96.735	3.8102	-.388	-.447





ANGULAR MEASUREMENT VARIABLE 40

Palatal Plane/Nasion-B Point

N-B/ANS-PNS

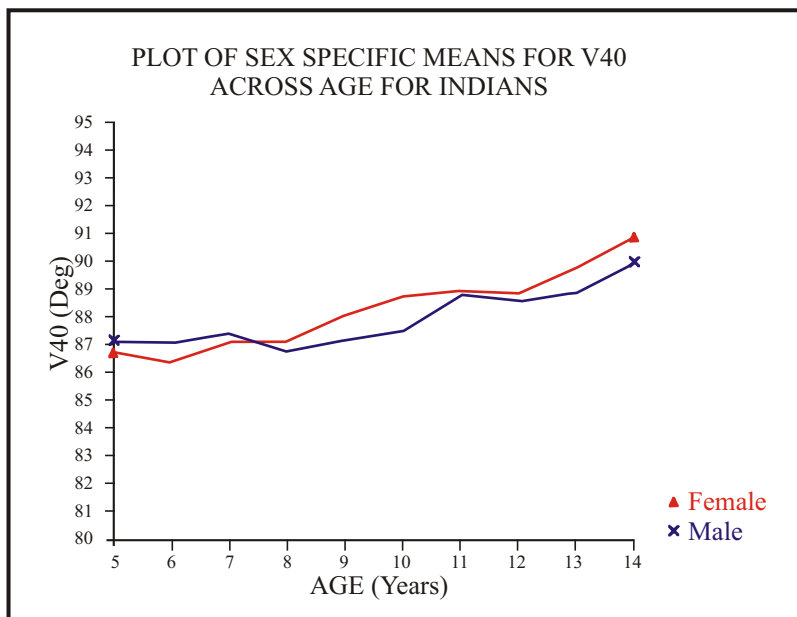
38-4/10-45

Male Indian

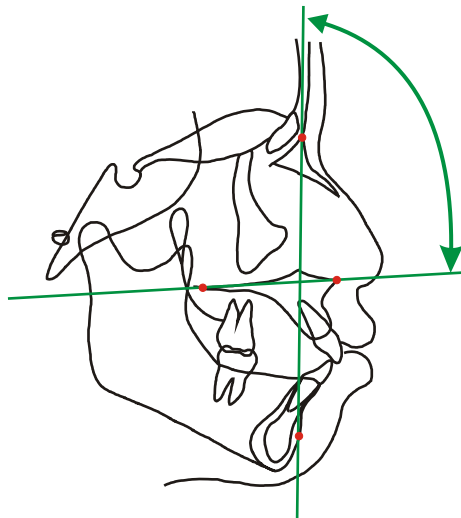
Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	14	83.448	89.663	87.144	1.7941	-.597	-.467
6	22	83.075	99.081	87.593	3.3339	1.845	4.442 *
7	19	83.553	91.331	87.433	2.3513	-.071	-1.116
8	23	81.494	92.786	86.712	2.8787	.314	-.580
9	22	82.822	90.763	87.207	1.9060	-.056	-.387
10	21	82.080	92.780	87.560	2.6460	-.048	-.487
11	20	84.973	93.875	88.994	2.6151	.251	-1.004
12	19	83.613	92.220	88.761	2.1873	-.755	.119
13	21	82.493	94.615	89.124	2.9978	-.485	-.198
14	10	85.082	96.421	90.323	3.4722	-.117	-.528

Female Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	14	83.117	88.749	86.715	1.6462	-.527	-.419
6	20	83.400	90.077	86.273	1.9055	.563	-.559
7	23	82.512	91.879	87.078	2.3859	-.216	-.477
8	23	82.213	91.956	87.164	2.7504	.177	-.706
9	22	83.343	93.533	88.183	2.5627	-.016	-.422
10	19	83.408	95.882	88.958	3.0130	.320	.138
11	22	83.866	96.448	89.173	3.0299	.431	-.264
12	22	85.019	92.780	89.084	2.3725	-.143	-1.120
13	20	83.829	98.767	90.085	3.7138	.208	-.125
14	11	85.220	95.251	91.352	3.1651	-.502	-.768



ANGULAR MEASUREMENT VARIABLE 41



Palatal Plane/Nasion-Pogonion

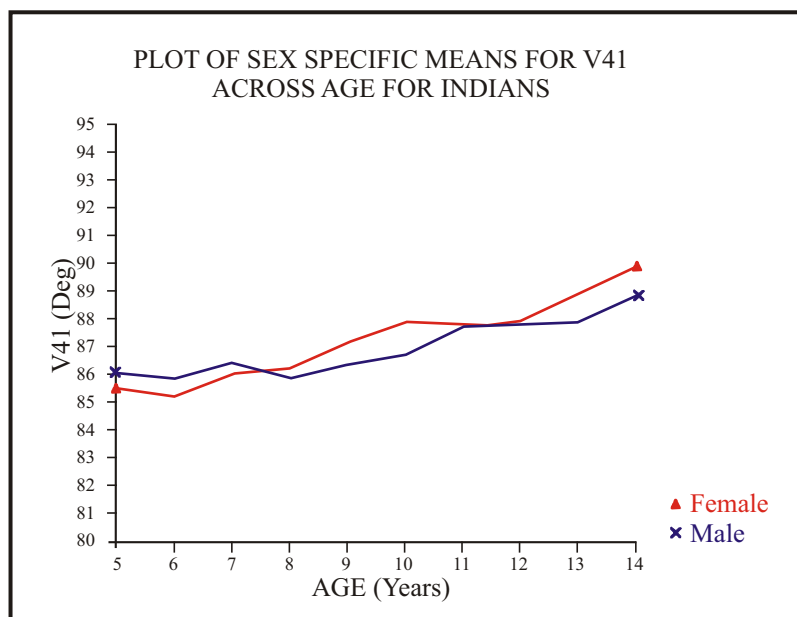
N-PG/ANS-PNS 38-3/10-45

Male Indian

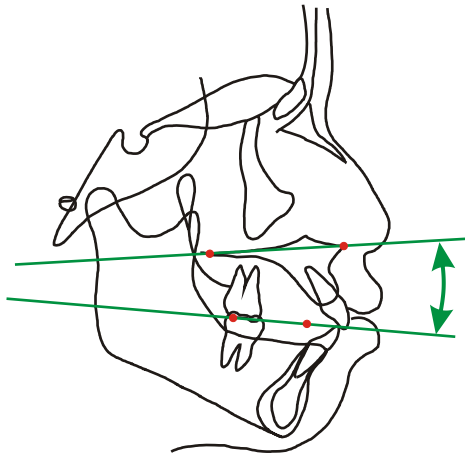
Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	14	82.104	88.649	86.094	1.9446	-.967	-.180
6	22	81.509	96.970	86.379	3.1750	1.600	3.682
7	19	82.478	89.988	86.440	2.3052	-.188	-1.184
8	23	80.729	91.745	85.873	2.7922	.196	-.603
9	22	82.007	89.187	86.358	1.9240	-.272	-.623
10	21	81.462	91.220	86.783	2.6021	-.278	-.497
11	21	81.013	92.378	87.878	2.9277	-.396	-.364
12	19	82.688	90.585	87.931	2.1866	-.966	.100
13	21	81.732	92.329	88.055	2.8178	-.712	-.110
14	10	83.830	94.359	89.162	3.3849	-.326	-.682

Female Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	14	82.822	89.536	85.492	1.7327	.689	.243
6	20	81.875	89.008	85.131	1.9768	.617	-.484
7	23	82.227	91.331	86.023	2.2048	.096	-.019
8	23	81.542	91.397	86.269	2.6697	.239	-.533
9	22	83.057	93.401	87.248	2.5728	.229	-.047
10	19	82.848	94.670	88.058	2.9817	.213	-.191
11	21	83.987	92.937	87.922	2.4674	.127	-1.080
12	22	84.419	91.702	88.099	2.2923	-.113	-1.260
13	20	83.428	97.598	89.216	3.5756	.271	-.201
14	11	84.767	93.749	90.318	3.0185	-.521	-.940



ANGULAR MEASUREMENT VARIABLE 42



Palatal Plane/Functional
Occlusal Plane

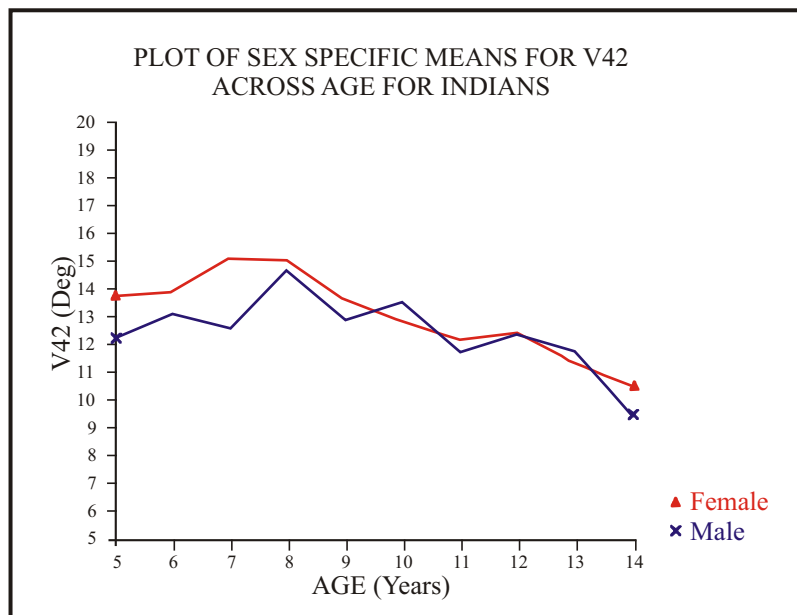
ANS-PNS/PMC-FPP 10-45/46-50

Male Indian

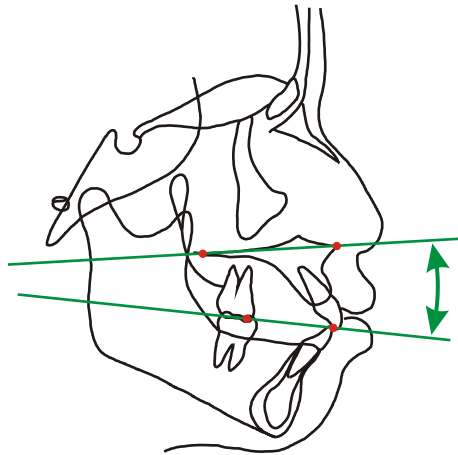
Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	14	8.5159	14.868	12.207	1.9339	-.353	-.965
6	22	4.5137	22.596	12.693	3.8142	.121	1.048
7	20	2.7517	20.254	12.542	4.7842	-.298	-.380 *
8	23	9.5115	20.687	14.830	3.0437	.058	-.856
9	23	8.0200	19.451	12.805	3.2429	.528	-.673
10	21	8.3086	19.164	13.501	3.5890	.037	-1.140
11	21	6.4470	16.749	11.524	2.9634	.038	-.896
12	18	8.7229	15.834	12.202	2.0109	-.063	-.926
13	21	4.2732	18.860	11.509	3.3155	.316	.371
14	10	4.3679	13.840	8.9265	3.6239	.264	-1.551

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	5.0681	20.627	13.842	4.0249	-.387	-.110
6	20	6.9861	20.444	13.999	3.5468	.014	-.611
7	23	9.2749	21.393	15.294	2.6492	-.096	.261
8	22	10.590	19.840	15.240	2.1385	-.140	.030
9	22	8.1265	18.696	13.619	2.7484	.217	-.433
10	19	7.2876	18.646	12.732	3.1452	.290	-.839
11	22	4.6062	19.612	12.011	3.1938	.150	.493
12	23	6.3735	17.483	12.282	2.7613	.301	-.180
13	20	5.7048	17.620	11.056	3.1556	.519	-.019
14	11	6.7136	16.482	10.053	2.8035	1.100	.604



ANGULAR MEASUREMENT VARIABLE 43



Palatal Plane/Downs Occlusal Plane

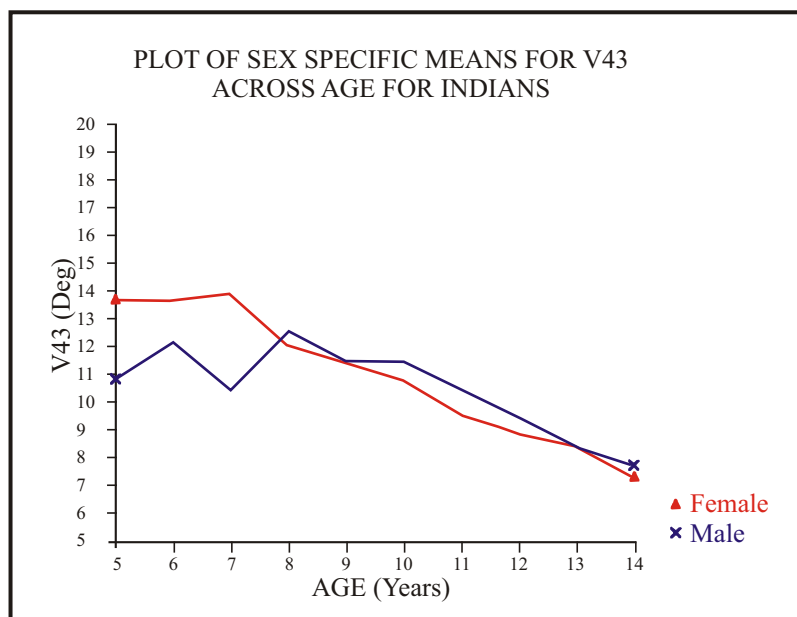
ANS-PNS/ADP-PDP 10-45/56-57

Male Indian

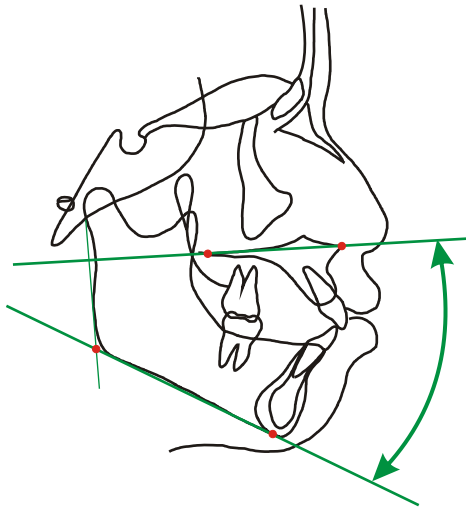
Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	14	4.0217	20.895	10.940	4.8535	.501	-.300
6	22	4.8445	19.985	12.005	3.7275	1.158	-.585
7	20	3.5930	17.321	10.486	3.7465	-.126	-.531 **
8	22	1.2927	21.332	12.517	4.0763	-.514	1.544
9	22	8.2446	17.188	11.514	2.5401	.624	-.378
10	20	8.6575	16.911	11.464	2.0294	1.263	1.271
11	21	4.7395	16.753	10.411	2.7596	.134	.071 *
12	18	5.7236	14.380	9.4514	2.1376	.615	.428
13	20	4.8430	15.747	8.4347	2.6698	.997	.917
14	10	3.3708	15.159	7.7292	3.6501	.686	-.333

Female Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	14	10.180	16.751	13.727	2.1641	-.306	-.850
6	19	7.9580	18.224	13.659	3.0651	-.409	-.880
7	23	8.4155	19.917	13.897	2.9250	.027	-.200
8	23	5.6426	16.870	12.048	2.8333	-.420	-.203
9	22	8.4280	16.957	11.379	2.4243	.973	.103
10	19	6.6899	17.074	10.783	2.6631	.447	-.135
11	22	2.8459	15.412	9.5967	3.5162	-.228	-.815
12	23	4.9397	14.342	8.8802	2.6738	.400	-.493
13	20	3.0269	14.454	8.3895	3.1262	.199	-.936
14	11	4.0474	12.355	7.3235	2.5255	.717	-.458



ANGULAR MEASUREMENT VARIABLE 44



Palatal Plane/Mandibular Plane

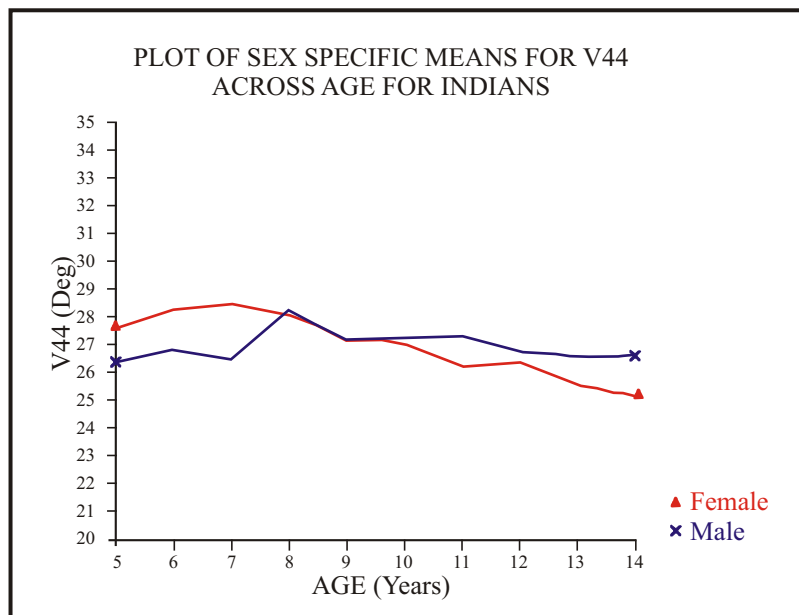
ANS-PNS/ME-GOI 10-45/1-28

Male Indian

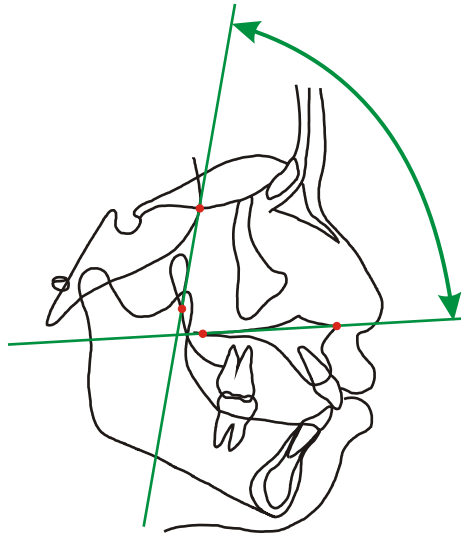
Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	14	14.662	35.440	26.687	5.5495	-.991	.542
6	22	15.625	35.275	27.152	4.8304	-.660	-.097
7	20	16.246	36.360	26.751	5.4340	-.026	-.523
8	23	18.176	35.760	28.713	4.4225	-.509	-.173
9	23	17.542	36.518	27.459	4.7058	-.484	-.070
10	21	18.273	39.613	27.559	5.4936	.075	-.444
11	21	20.050	35.494	27.750	3.9726	-.113	-.412 **
12	19	15.129	35.503	26.978	4.9996	-.435	.127
13	20	19.753	33.258	26.764	3.5298	.128	-.409
14	10	17.280	36.972	26.791	6.0980	.076	-.799

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	23.253	34.656	27.996	3.0751	.224	-.246
6	20	20.927	34.967	28.649	3.4354	-.285	-.348
7	22	25.647	31.216	28.892	1.7885	-.426	-1.139
8	23	22.561	35.349	28.479	3.2087	-.080	-.431
9	21	23.327	33.031	27.534	2.2882	.357	.059
10	19	22.152	34.158	27.325	3.5642	.402	-.967
11	21	20.497	32.002	26.407	2.8142	-.046	-.267
12	23	18.313	34.234	26.539	3.5508	.151	.586
13	20	16.180	36.225	25.635	4.7439	.153	-.189
14	11	18.644	33.196	25.166	4.2839	.456	-.491



ANGULAR MEASUREMENT VARIABLE 45



PM Vertical/Palatal Plane

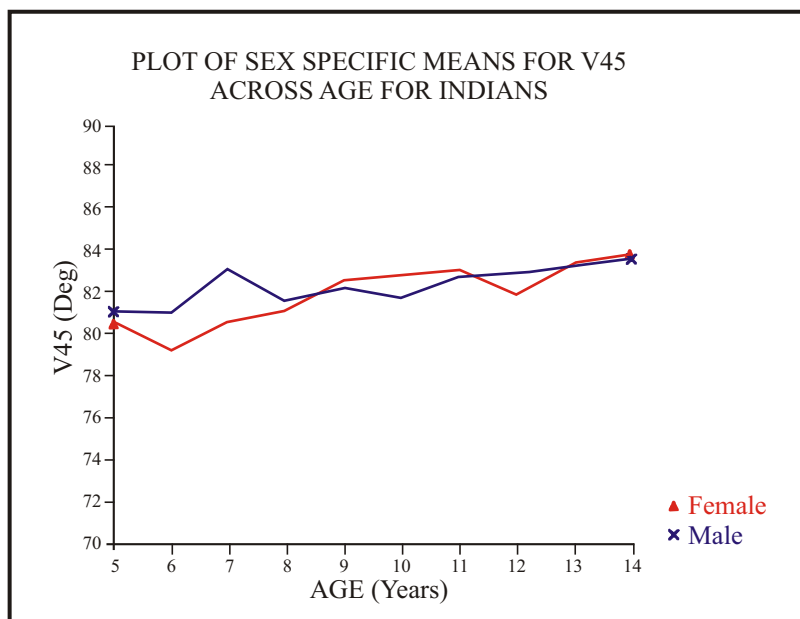
SE-PTM/ANS-PNS 36-43/10-45

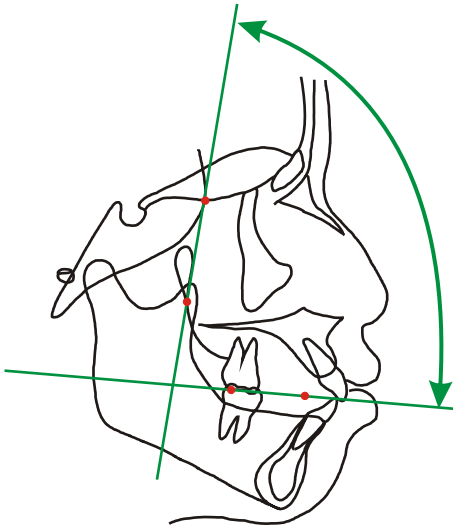
Male Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	14	75.919	89.780	81.122	4.1247	.560	-.581
6	22	73.358	90.187	81.080	3.9861	.264	-.187
7	20	77.204	89.894	83.388	3.7972	.234	-.997 *
8	23	74.562	90.845	81.638	4.7470	.365	-.884
9	23	74.354	89.567	82.331	3.5669	-.100	-.178
10	21	75.327	87.714	81.771	3.2213	-.172	-.531
11	21	76.883	87.933	82.907	3.5927	-.370	-.906
12	19	76.236	89.240	83.130	3.2855	-.218	-.527
13	21	76.116	89.181	83.457	3.1694	-.462	.412
14	10	79.752	89.704	83.920	2.9629	.326	-.354

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	71.980	90.628	80.654	4.4416	.342	.347
6	19	69.353	84.425	79.055	3.6231	-.812	.818
7	22	69.690	86.653	80.542	3.9500	-.850	.906
8	22	73.468	86.614	81.158	3.6728	-.493	-.841
9	22	74.792	93.206	82.767	4.4887	.479	-.020
10	19	73.533	94.749	83.083	4.8723	.343	.367
11	22	74.577	89.671	83.278	3.8132	-.421	-.333
12	22	74.283	87.788	81.940	3.5891	-.380	-.686
13	20	79.048	91.239	83.617	3.1628	.548	-.063
14	11	77.358	88.754	84.139	3.8727	-.702	-.991





ANGULAR MEASUREMENT VARIABLE 46

**PM Vertical/ Functional Occlusal
Plane**

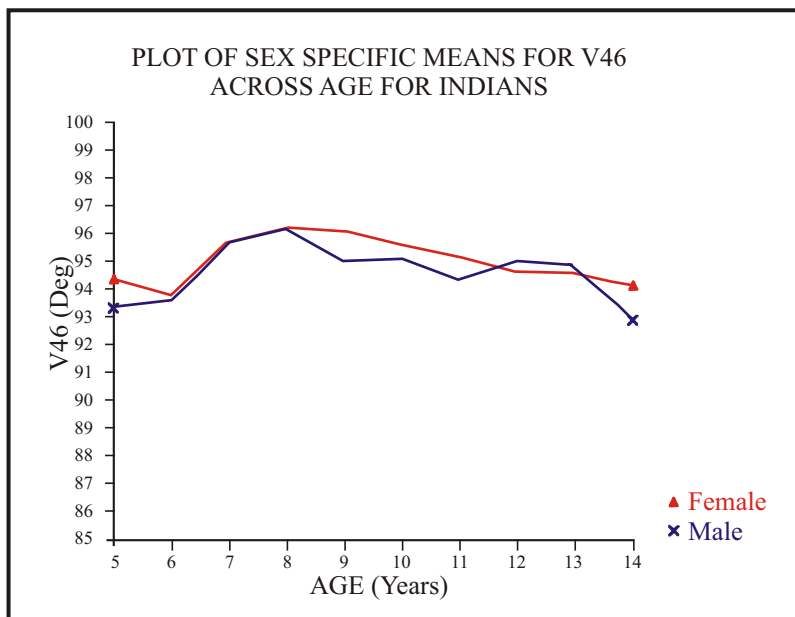
SE-PTM/PMC-FPP 36-43/46-50

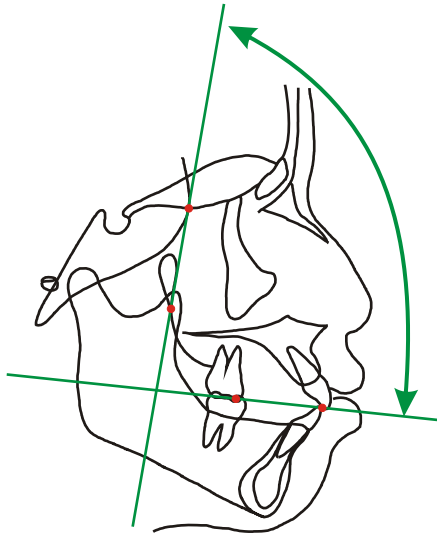
Male Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	14	89.345	99.474	93.329	2.6882	.487	.082
6	22	86.393	104.90	93.601	4.9491	.614	-.436
7	20	85.236	104.17	95.930	4.6223	-.308	.025
8	23	87.685	103.90	96.468	4.2402	-.306	-.677
9	23	85.336	102.46	95.136	4.4415	-.081	-.484
10	21	87.163	104.23	95.272	4.0723	.066	-.181
11	21	87.852	100.52	94.431	3.5732	-.076	-.957
12	18	87.093	101.30	95.164	3.9700	-.210	-.603
13	21	88.496	104.01	94.967	3.9273	.267	-.319
14	10	88.503	99.186	92.847	3.4312	.636	-.454

Female Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	15	86.763	100.58	94.497	4.5453	-.358	-1.090
6	20	84.718	105.57	93.812	5.9731	.266	-.847
7	22	85.720	103.11	95.902	4.4242	-.494	-.028
8	23	88.227	106.45	96.505	4.1752	-.017	.151
9	22	88.252	103.84	96.386	4.8525	-.111	-1.013
10	19	83.996	103.73	95.815	5.0113	-.369	-.270
11	22	87.039	103.61	95.289	4.6531	-.070	-.696
12	23	85.494	104.03	94.736	5.3490	.177	-1.036
13	20	84.963	100.45	94.673	3.9645	-.675	.046
14	11	88.303	105.24	94.193	4.6240	1.015	1.162





ANGULAR MEASUREMENT VARIABLE 47

**PM Vertical/Downs Occlusal
Plane**

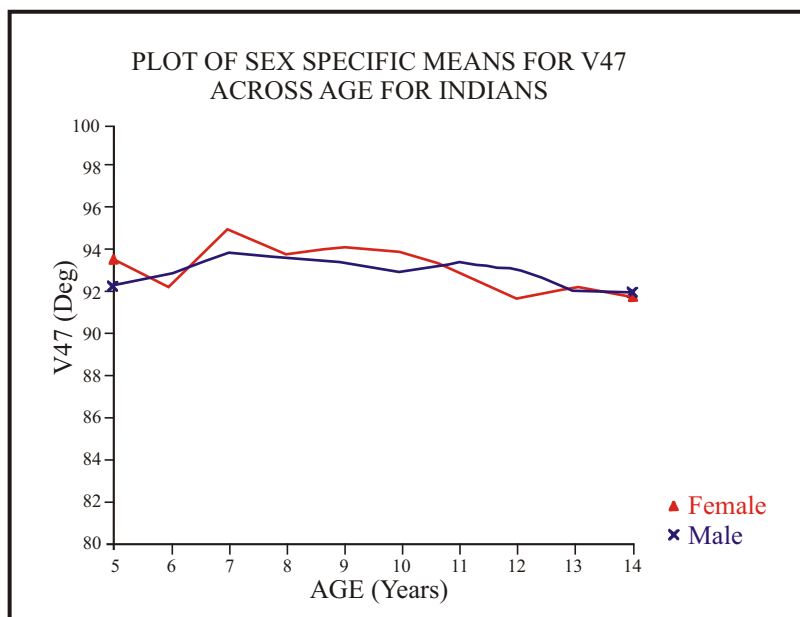
SE-PTM/ADP-PDP36-43/56-57

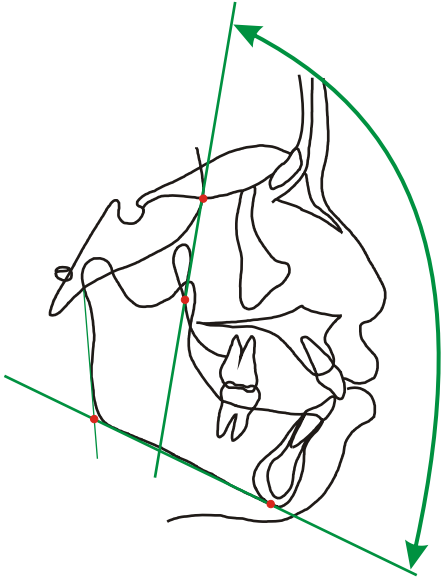
Male Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	14	83.897	101.38	92.062	5.8559	.195	-1.411
6	22	82.282	102.29	92.721	4.9760	-.147	-.431
7	20	84.715	102.96	93.874	4.8031	.322	-.427
8	23	84.855	101.34	93.581	4.3179	.055	-.661
9	23	85.499	103.43	93.325	4.3011	.437	.012
10	21	86.669	100.73	92.827	3.6968	.270	-.445
11	21	87.753	101.35	93.318	3.7473	.553	-.729
12	19	86.375	101.10	92.947	3.9442	.268	-.766
13	20	82.026	96.464	91.808	3.6164	-1.031	.758
14	10	87.506	100.60	91.650	3.7853	1.326	1.176

Female Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	15	83.059	104.49	93.530	5.4083	-.130	-.044
6	19	80.615	101.22	92.066	5.6140	-.209	-.777
7	23	83.974	108.88	95.091	5.7035	.193	.134
8	23	83.038	104.01	93.763	4.8672	-.040	-.156
9	22	86.594	104.09	94.146	4.8620	.433	-.725
10	19	84.767	102.16	93.866	5.1289	.087	-1.029
11	22	82.615	103.33	92.875	5.1277	-1.103	-.157
12	23	79.224	100.63	91.334	5.5050	-.127	-.566
13	20	84.854	97.651	92.006	3.4024	-.409	-.514
14	11	85.673	101.11	91.463	4.6856	.779	-.155





ANGULAR MEASUREMENT VARIABLE 48

PM Vertical/Mandibular Plane

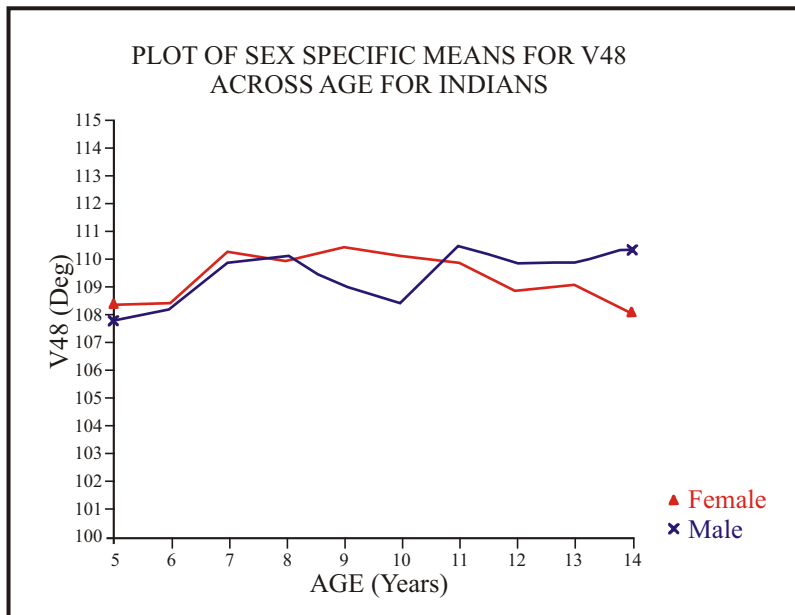
SE-PTM/ME-GOI 36-43/1-28

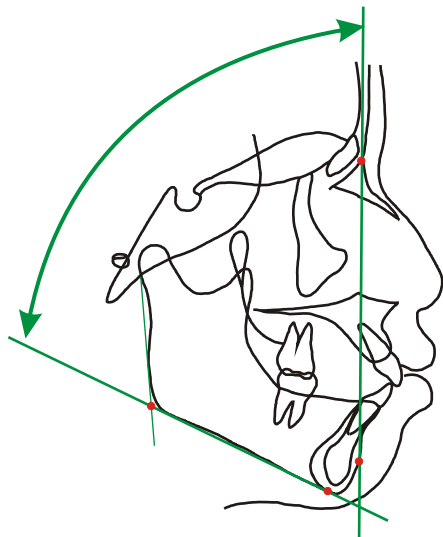
Male Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	14	94.196	116.74	107.81	5.8863	-.952	.399
6	22	99.607	114.72	108.23	4.3652	-.475	-.712
7	20	100.70	122.00	110.14	5.2496	-.011	-.008
8	23	102.47	121.31	110.35	4.6162	.229	-.150
9	22	99.593	117.31	109.17	4.5898	-.276	-.341
10	20	101.33	115.47	108.56	3.7693	.130	-.768
11	21	104.04	123.20	110.65	4.6109	.922	.847 **
12	19	101.68	118.39	110.11	4.6148	-.271	-.707
13	20	104.28	115.65	110.14	3.3249	-.100	-.815
14	10	101.41	122.41	110.71	5.7286	.433	.130

Female Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	15	102.30	116.44	108.66	4.4346	.371	-1.093
6	20	96.664	120.70	108.46	6.0383	.249	-.379
7	23	100.52	122.96	110.53	5.2728	.335	.381
8	23	103.11	118.53	110.19	4.2116	.300	-.461
9	22	101.57	120.55	110.72	4.7486	.189	-.541
10	19	100.07	119.52	110.41	4.8597	-.172	-.338
11	22	100.95	119.65	110.11	4.5492	-.108	-.430
12	23	100.28	118.35	108.99	4.8505	.115	-.678
13	20	100.84	119.42	109.25	4.2142	.031	.411
14	10	102.73	111.39	108.04	2.9036	-.685	-.555





ANGULAR MEASUREMENT VARIABLE 49

Nasion-Pogonion/Mandibular Plane

GOI-ME/N-PG

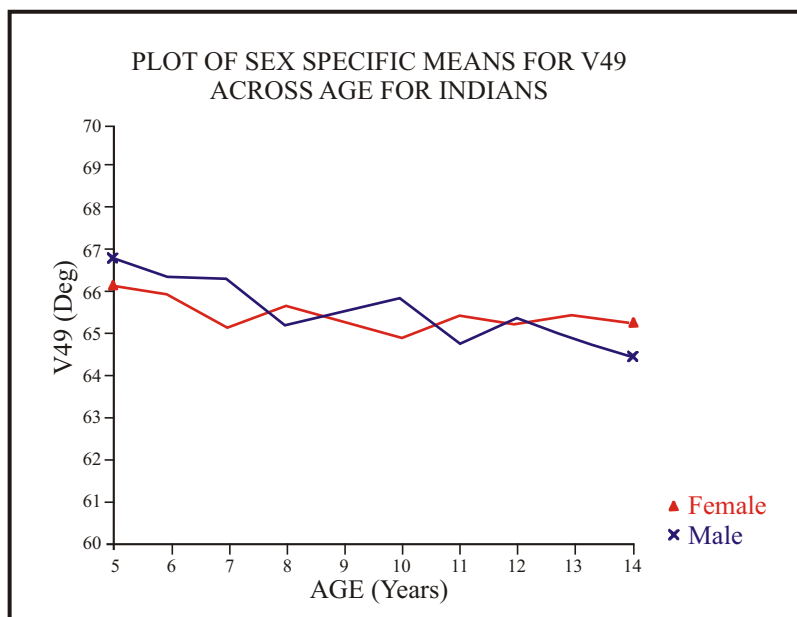
28-1/38-3

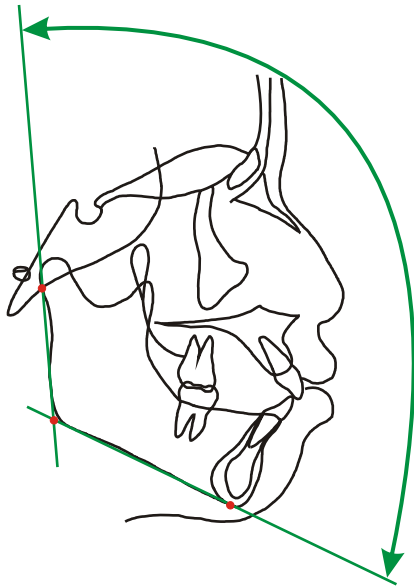
Male Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	60.887	77.722	66.798	4.8531	1.192	.616
6	22	58.565	76.034	66.238	3.9484	.789	.921
7	20	57.909	77.112	66.216	4.6168	.668	.529
8	22	58.215	74.867	64.954	3.3674	.770	2.049
9	22	57.519	73.542	65.318	3.5779	.172	.426
10	21	57.347	75.896	65.658	4.3662	.274	.215
11	21	57.617	69.427	64.376	3.0273	-.406	-.080 **
12	19	56.879	75.122	65.091	4.2913	.698	.573
13	21	57.317	69.923	64.582	3.1215	-.481	.408
14	10	56.080	70.081	64.048	4.5389	-.125	-.777

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	59.888	70.629	66.061	2.5888	-.417	.715
6	20	61.425	70.239	65.749	2.5359	-.027	-.749
7	22	62.219	69.311	64.913	1.6809	.681	.182
8	22	62.963	69.986	65.480	1.6599	.988	.660
9	21	62.473	68.185	65.018	1.6086	.360	-.771
10	19	59.400	68.740	64.617	2.3399	-.349	-.226
11	21	62.905	68.200	65.173	1.5694	.335	-.948
12	23	60.513	70.147	64.979	2.0948	.068	.476
13	20	59.277	70.506	65.149	2.6242	-.289	.218
14	10	63.357	67.685	64.965	1.1334	1.230	1.631





ANGULAR MEASUREMENT VARIABLE 50

**Menton-Gonial Intersection-
Articulare, Posterior**

AR-GOI -ME

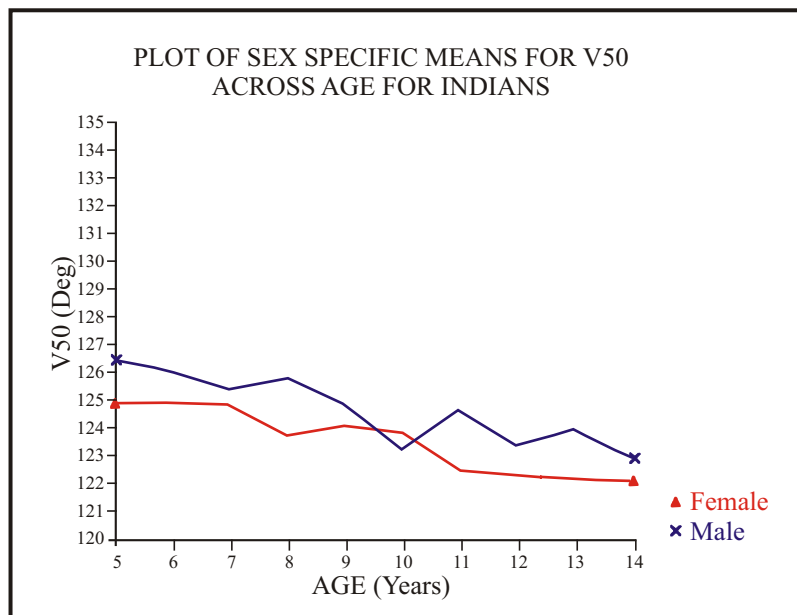
31-28-1

Male Indian

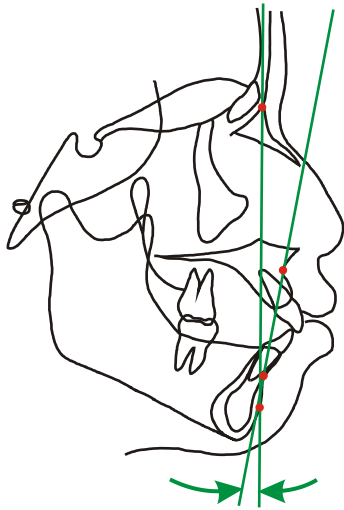
Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	14	111.91	139.79	126.56	7.7139	-.405	.079
6	22	113.69	136.18	126.11	5.9369	-.539	-.053
7	20	108.30	134.78	125.41	7.0815	-.917	.229
8	22	113.55	132.53	125.84	4.6137	-.746	.583 *
9	22	112.99	133.82	124.77	5.2566	-.252	-.273
10	21	107.30	131.58	122.95	6.6127	-.620	-.403
11	21	113.19	131.62	124.43	4.9474	-.500	-.526 **
12	19	108.55	134.92	123.11	6.8251	-.393	-.446
13	21	114.73	132.56	123.76	4.6760	-.126	-.750
14	10	112.55	131.53	122.57	6.0232	-.189	-1.116

Female Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	15	120.21	129.64	124.55	2.6604	.052	-.677
6	20	116.26	131.63	124.91	3.7055	-.314	.031
7	23	120.07	130.74	124.75	3.0251	.387	-.697
8	23	115.31	129.24	123.53	3.5873	-.320	-.384
9	22	117.82	132.98	123.92	3.6662	.603	.120
10	19	114.91	131.83	123.66	4.1805	.007	-.334
11	22	114.13	129.39	122.14	3.8980	.029	-.758
12	23	115.43	128.50	121.89	3.5026	.283	-.660
13	20	116.50	128.99	121.73	4.2098	.364	-1.185
14	11	116.83	126.87	121.63	3.3372	.174	-1.156



ANGULAR MEASUREMENT VARIABLE 51



A Point-B Point/Nasion- Pogonion Downs Analysis

A-B/N-PG

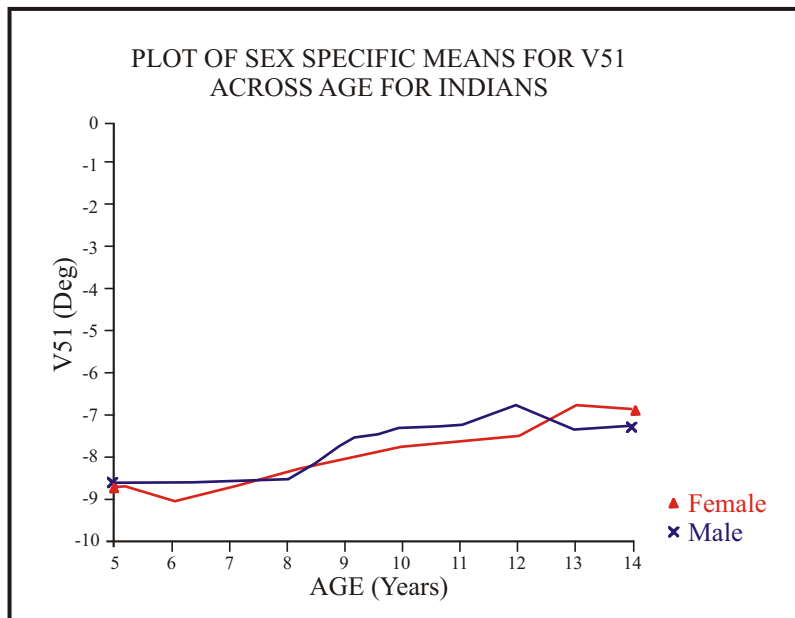
9-4/38-3

Male Indian

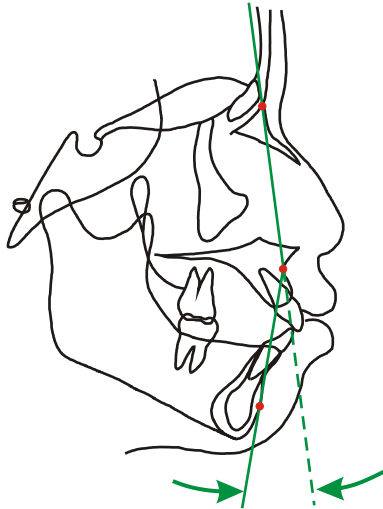
Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	14	-11.029	-7.1904	-8.6941	1.3706	-.400	-1.295
6	22	-11.077	-6.3337	-8.6372	1.6051	-.125	-1.493
7	20	-11.525	-5.8237	-8.6501	1.8104	-.103	-1.290
8	23	-12.150	-5.5891	-8.5706	1.9795	-.242	-1.030
9	23	-10.382	-4.0662	-7.6816	1.7330	.066	-.772
10	21	-10.466	-3.8977	-7.4028	1.7992	.057	-.751
11	21	-10.820	-4.3489	-7.3355	2.1108	-.114	-1.219
12	19	-11.457	-3.8682	-6.9027	2.3209	-.539	-.911
13	21	-11.873	-4.3982	-7.4472	2.1981	-.538	-.723
14	10	-10.723	-4.8945	-7.3875	1.8046	-.348	-.648

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	14	-11.020	-6.7483	-8.6769	1.3070	-.252	-.819
6	20	-12.730	-6.0063	-9.0899	1.6576	-.089	-.238
7	23	-12.232	-6.0205	-8.7480	1.4270	-.136	.071
8	23	-10.269	-6.0205	-8.3970	1.3326	.224	-1.235
9	22	-11.014	-5.3518	-8.0774	1.4114	.066	-.451
10	19	-11.468	-3.9265	-7.8238	1.7266	-.149	.545
11	22	-10.975	-4.4238	-7.7043	1.6993	.090	-.536
12	23	-11.055	-5.2688	-7.6003	1.5685	-.624	-.493
13	20	-10.939	-3.9177	-6.8860	2.1394	-.458	-.837
14	11	-10.527	-2.0999	-6.9919	2.7215	.467	-1.057



ANGULAR MEASUREMENT VARIABLE 52



Nasion-A Point-Pogonion Downs Analysis

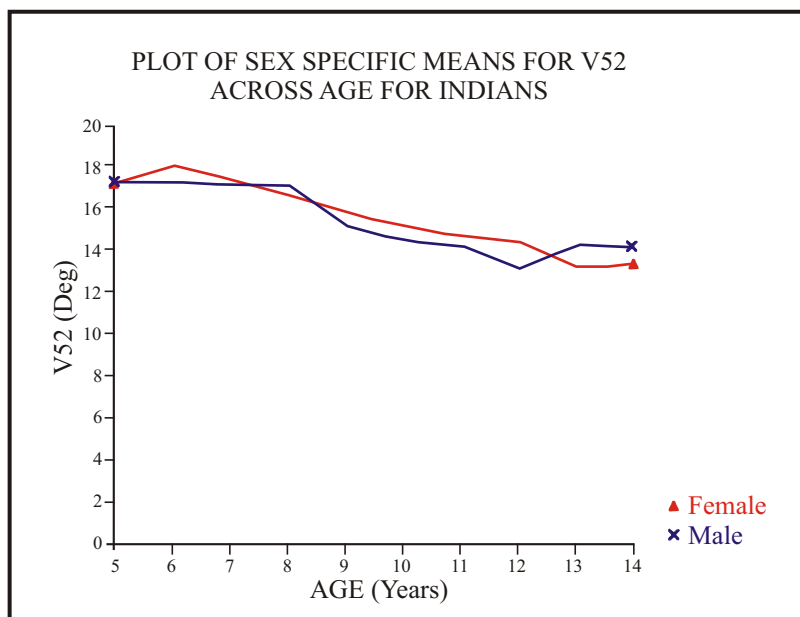
N-A-PG 180 deg - (38-9-3)

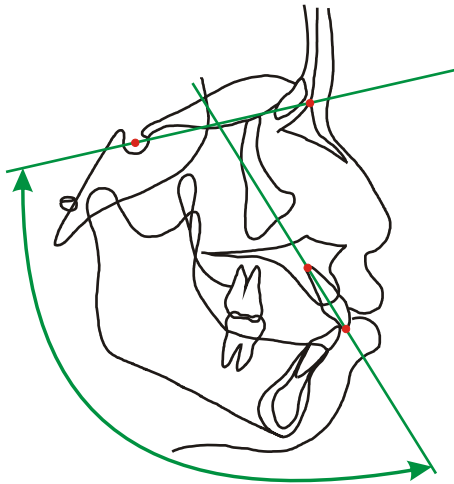
Male Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	14	13.871	22.637	17.291	2.8472	.474	-.995
6	22	12.490	22.837	17.211	3.1131	.113	-1.269
7	20	12.008	22.495	17.103	3.4073	.089	-1.387
8	23	10.634	24.689	17.079	3.8640	.346	-.649
9	23	8.4362	21.233	15.183	3.4038	-.028	-.664
10	21	7.2067	20.160	14.490	3.5221	-.142	-.662
11	21	8.5363	21.494	14.197	3.9275	.132	-1.085
12	19	7.0821	21.124	13.205	4.2063	.431	-.982
13	21	8.0705	23.217	14.317	4.2102	.516	-.563
14	10	9.0429	20.894	14.210	3.4889	.414	-.446

Female Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	14	13.686	22.009	17.233	2.4139	.238	-.842
6	20	11.669	24.830	17.988	3.1595	.062	-.145
7	23	12.380	24.072	17.364	2.9652	.121	-.261
8	23	11.923	20.881	16.573	2.7045	-.047	-1.164
9	22	10.321	22.856	15.830	2.9932	.103	-.137
10	19	7.6112	22.403	15.131	3.3140	.304	.993
11	22	8.6823	21.051	14.735	3.1914	-.181	-.453
12	23	9.8647	20.812	14.447	3.0389	.594	-.575
13	20	7.7105	21.176	13.254	4.1340	.560	-.748
14	11	4.0822	20.326	13.408	5.2655	-.408	-1.070





ANGULAR MEASUREMENT VARIABLE 53

Upper Incisor/Sella-Nasion

UIE-UIA/S-N

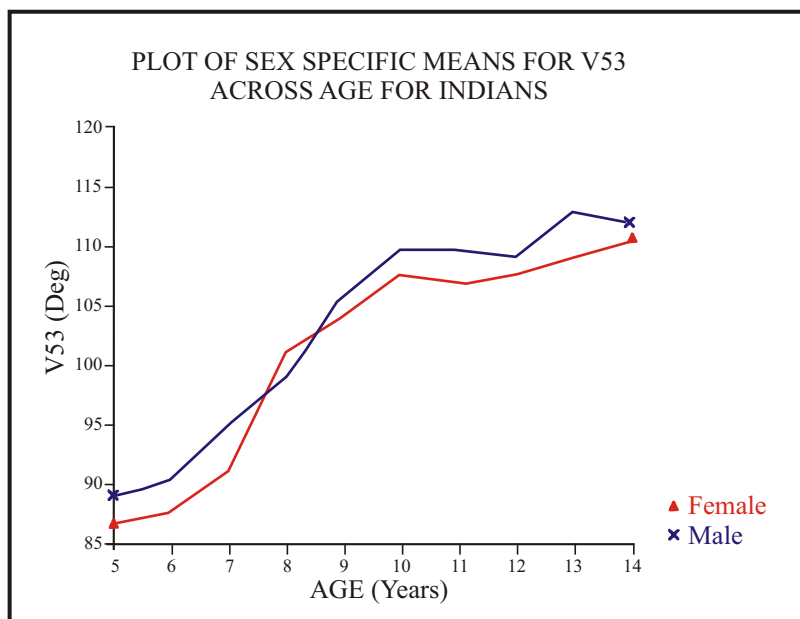
7-12/38-35

Male Indian

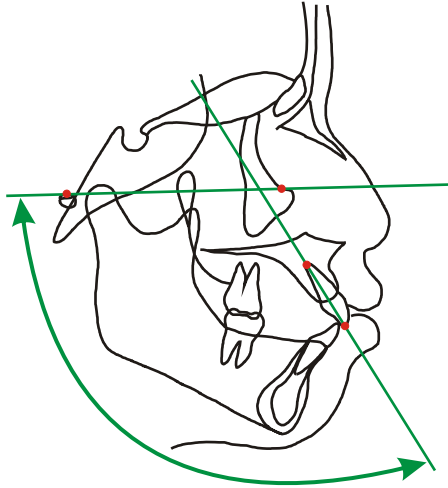
Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	14	80.542	101.79	89.319	6.5157	.561	-.608
6	21	81.573	104.47	90.815	7.2938	.492	-.943 *
7	18	81.966	107.48	95.191	7.6217	-.196	-1.058
8	22	77.932	111.24	99.066	9.0336	-.999	.440
9	22	92.931	118.71	105.82	5.7584	-.013	.208
10	21	98.842	124.83	109.56	6.4117	.465	-.075
11	20	96.854	120.17	109.38	6.1304	-.269	-.051
12	19	97.428	122.25	108.84	5.9241	.082	.180
13	20	102.03	122.12	112.59	4.8953	.050	.038 **
14	10	100.17	122.99	111.46	6.3527	.148	-.126

Female Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	15	76.048	98.764	87.174	6.5439	-.020	-.952
6	18	77.820	95.764	88.180	5.0414	-.543	-.476
7	22	77.352	107.56	91.522	7.7261	.101	-.693
8	23	88.715	117.47	101.11	6.5086	.400	.224
9	21	90.801	112.40	103.90	4.7732	-.947	1.310
10	19	97.846	115.76	107.52	4.1087	-.284	.484
11	21	97.943	113.15	106.78	3.7986	-.750	.461
12	22	98.655	112.33	107.38	3.7750	-.624	-.375
13	20	99.822	116.26	108.86	4.2546	-.474	-.369
14	10	104.23	113.02	110.10	2.7178	-1.027	.141



ANGULAR MEASUREMENT VARIABLE 54



Upper Incisor/Frankfort Plane

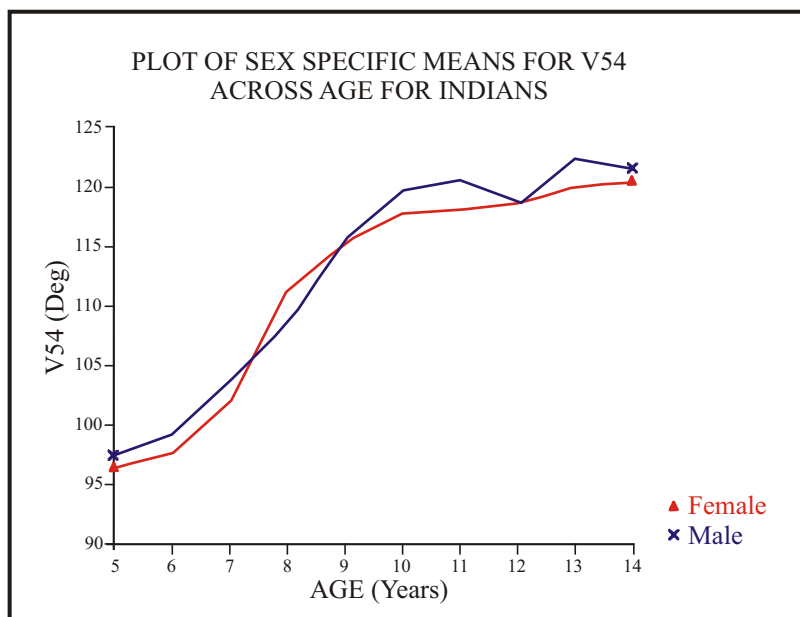
UIE-UIA/PO-OR 7-12/49-40

Male Indian

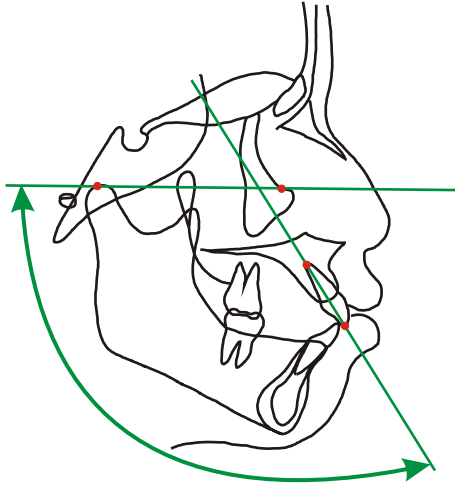
Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	13	87.400	107.04	97.606	5.3076	-.099	-.201
6	21	88.954	112.34	99.368	6.8605	.458	-.951
7	18	90.666	121.41	103.77	8.0391	.148	-.374
8	22	86.447	125.83	108.41	9.3851	-.627	.167
9	22	104.01	126.49	115.36	5.6206	.256	-.286
10	21	107.71	130.74	119.33	5.7146	.231	-.512
11	21	107.47	131.25	120.16	6.5770	-.156	-.695 *
12	19	105.28	127.32	118.22	5.5776	-.275	-.030
13	20	112.29	129.39	121.88	4.2887	-.114	-.178 *
14	10	111.00	129.80	121.01	5.6535	-.101	-.534

Female Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	15	85.423	106.68	96.580	5.6951	-.454	-.198
6	18	89.021	103.73	97.844	4.7782	-.546	-.987
7	22	90.091	113.32	101.93	7.5905	-.120	-1.331
8	23	94.348	126.16	111.11	6.4135	-.319	1.182
9	21	106.39	126.09	115.07	4.2376	.397	.956
10	18	113.27	121.35	117.45	2.5408	.071	-1.071
11	21	111.22	120.85	117.67	2.8080	-1.040	.222
12	23	108.25	126.33	118.19	4.4594	-.231	-.426
13	20	111.90	128.94	119.59	4.3419	.369	-.357
14	11	113.69	125.30	119.89	3.2843	-.223	-.445



ANGULAR MEASUREMENT VARIABLE 55



Upper Incisor/Condylar Plane

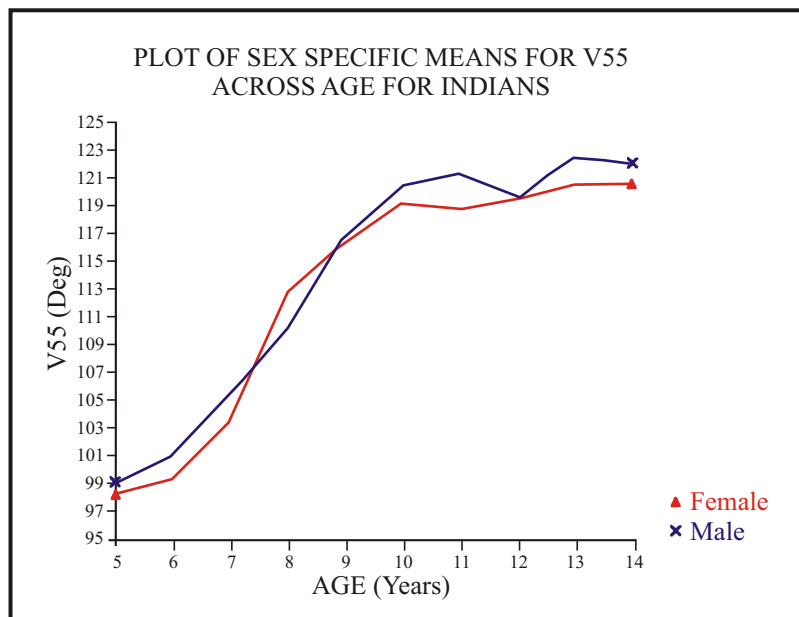
UIE-UIA/CO-OR 7-12/33-40

Male Indian

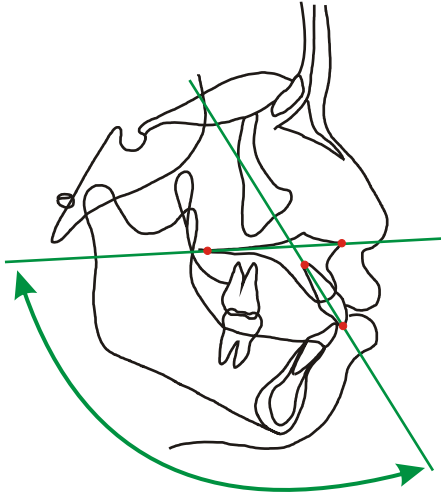
Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	13	86.736	112.84	99.041	6.3546	.342	.601
6	21	89.980	113.40	100.98	6.9775	.399	-1.073
7	18	91.958	123.32	105.22	8.6376	.162	-.632
8	22	86.480	125.55	109.95	9.5695	-.808	.204
9	22	103.10	129.48	116.24	6.2098	.237	.057
10	21	108.43	133.84	119.75	5.9880	.351	-.216
11	21	107.13	131.33	120.58	6.5029	-.234	-.615 *
12	19	107.47	128.78	118.94	6.0298	-.092	-.641
13	21	109.18	131.38	121.66	5.5317	-.154	.022
14	10	111.23	131.54	121.11	5.5908	.076	-.079

Female Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	15	86.406	108.96	98.241	6.1201	-.344	-.383
6	18	91.050	105.92	99.297	4.2407	-.349	-.732
7	22	93.465	116.45	103.55	7.5237	.150	-1.311
8	23	95.612	125.39	112.34	6.3032	-.511	.944
9	21	108.23	125.99	115.95	3.8973	.203	1.125
10	19	113.16	123.97	118.50	3.2106	-.064	-.695
11	21	112.78	122.02	118.04	2.7629	-.561	-.633
12	23	110.41	127.77	118.76	4.2843	.119	-.444
13	20	113.33	128.58	119.74	4.3106	.435	-.470
14	11	113.08	125.02	119.75	3.7401	-.447	-.817



ANGULAR MEASUREMENT VARIABLE 56



Upper Incisor/Palatal Plane

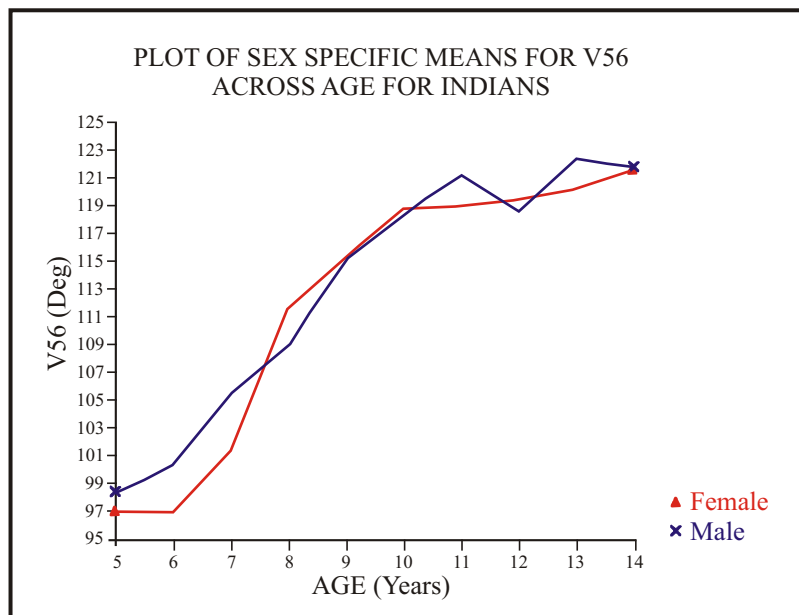
UIE-UIA/PNS-ANS 7-12/45-10

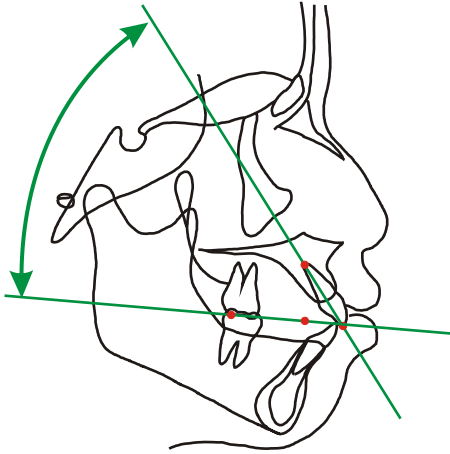
Male Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	13	86.806	110.36	98.278	5.5412	.166	.866
6	21	88.973	115.68	100.21	8.1481	.386	-1.106 *
7	18	92.500	117.02	105.21	7.2095	-.185	-.968
8	22	86.929	128.46	108.54	10.295	-.452	.007
9	22	104.91	123.75	114.61	5.0247	.074	-.673
10	21	108.74	128.23	117.82	5.1762	.019	-.199
11	20	111.51	129.79	120.46	4.5829	.250	-.132 *
12	19	108.44	125.28	117.94	5.0877	-.456	-.813
13	20	111.52	130.83	121.65	4.6443	-.245	-.071
14	10	107.98	129.81	120.96	5.8882	-.657	.798

Female Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	15	85.371	103.87	96.954	6.0815	-.792	-.790
6	18	89.263	103.77	96.922	4.8124	-.259	-1.165
7	22	87.965	114.25	101.27	7.6535	.065	-1.025
8	23	94.447	124.02	111.26	6.0316	-.757	1.433
9	22	104.37	125.32	114.87	4.6248	-.116	.297
10	19	113.60	124.17	118.21	3.3410	.311	-1.209
11	21	112.49	125.79	118.36	2.9386	.314	.729
12	23	110.29	129.33	118.79	4.2633	.465	.477
13	20	111.77	127.65	119.57	4.2521	.045	-.492
14	11	115.07	127.71	120.90	3.2698	.420	.391





ANGULAR MEASUREMENT VARIABLE 57

**Upper Incisor/Functional
Occlusal Plane**

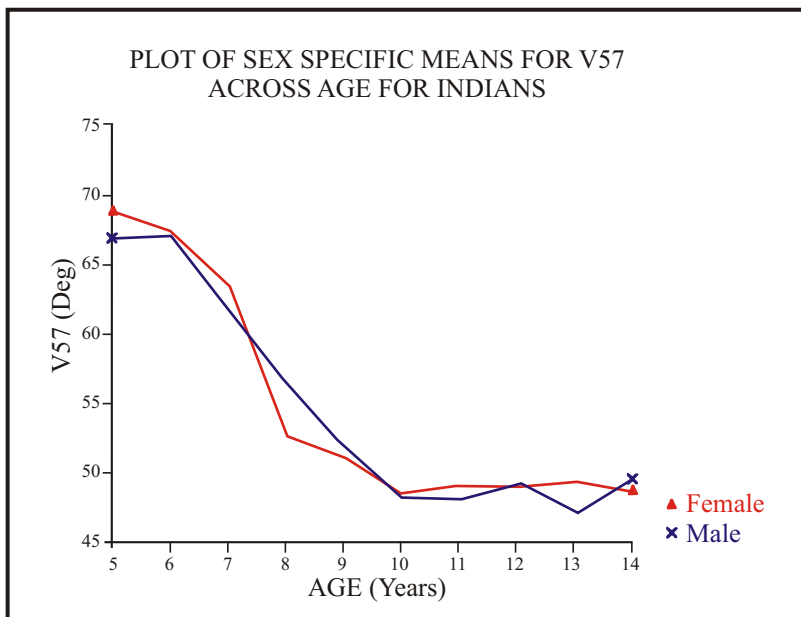
FPP-PMC/UIA-UIE 50-46/12-7

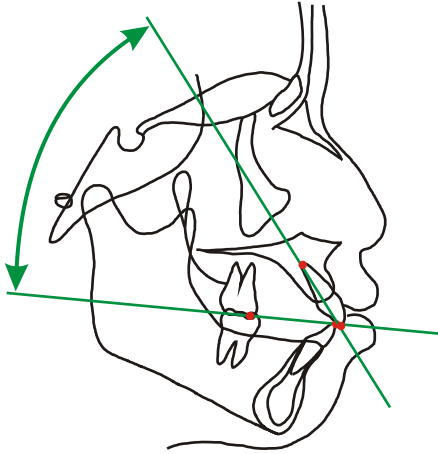
Male Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	14	54.915	75.305	67.001	6.3831	-.335	-.998
6	21	54.104	77.862	67.098	7.5749	-.311	-1.125
7	18	47.158	74.747	62.109	7.6199	-.134	-.769
8	22	41.956	75.150	56.629	8.9222	.538	-.284
9	22	43.208	61.788	52.281	5.0460	.162	-.507
10	21	38.842	58.973	48.650	5.1631	.270	-.390
11	21	41.537	57.157	48.590	4.7305	.391	-.822
12	18	40.989	58.606	49.587	5.2720	.303	-.902
13	21	39.795	54.849	47.490	4.6739	.016	-1.006 *
14	10	43.098	58.135	49.996	5.1416	.111	-1.390

Female Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	15	59.433	80.808	68.953	6.7220	.283	-1.058
6	19	53.141	78.873	67.436	6.5966	-.259	-.333
7	22	49.086	75.097	63.554	7.7418	.019	-1.132
8	23	41.036	68.651	53.714	6.1270	.282	.280
9	20	46.412	58.570	51.484	3.0933	.582	-.034
10	19	42.047	54.730	48.918	3.2694	-.163	-.607
11	21	44.806	55.436	49.494	3.2818	.226	-1.179
12	22	43.561	56.968	49.316	3.4994	-.020	-.477
13	19	43.907	57.694	49.803	3.2548	.458	.153
14	11	42.251	55.722	49.023	4.0383	-.379	-.414





ANGULAR MEASUREMENT VARIABLE 58

Upper Incisor/Downs Occlusal
Plane

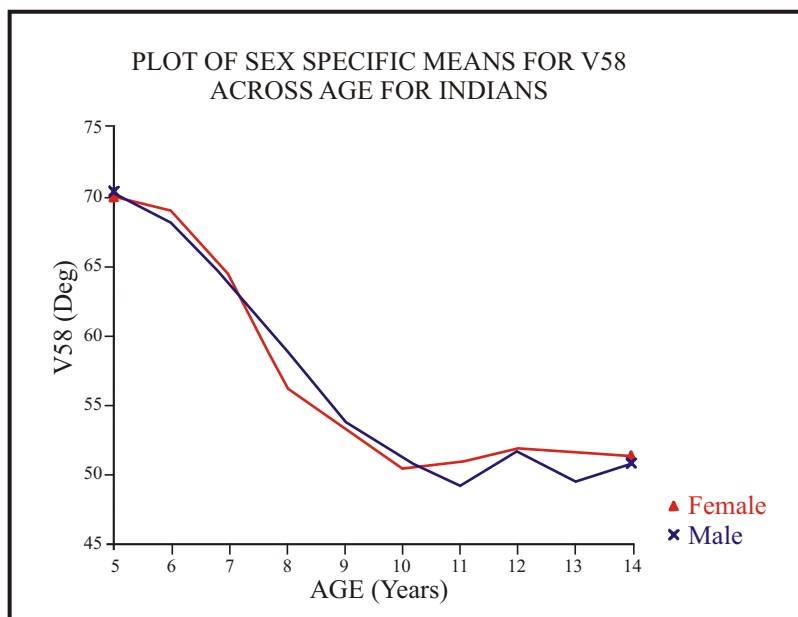
PDP-ADP/UIA-UIE 57-56/12-7

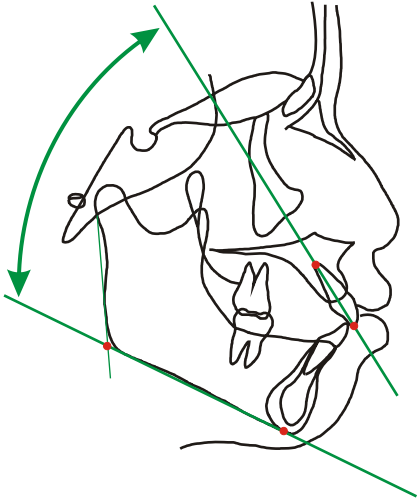
Male Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	14	60.350	82.044	70.286	5.9669	.432	-.449
6	21	55.382	82.151	68.268	7.3276	.075	-.886
7	18	48.445	76.656	64.096	7.7514	-.367	-.755
8	22	50.290	76.349	59.271	7.3012	.706	-.258
9	22	47.154	62.536	54.301	4.8000	.010	-1.117
10	20	45.022	60.037	51.710	3.6863	.564	.475
11	21	41.870	57.758	49.791	4.7558	.149	-1.135 **
12	19	45.152	61.981	52.241	4.3558	.550	-.242
13	21	43.246	56.300	50.048	4.0574	.047	-.923
14	10	45.871	62.214	51.312	5.3153	.837	-.332

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	62.143	79.946	70.171	6.1889	.177	-1.371
6	19	54.656	80.653	69.089	7.6817	.043	-.992
7	22	52.595	76.806	64.586	7.8094	.157	-1.193
8	23	44.265	75.608	56.690	6.6177	.773	1.218
9	22	43.928	64.565	53.748	5.1403	.424	-.104
10	19	45.658	57.404	51.008	2.9226	.309	-.280
11	22	43.131	60.961	51.400	4.3688	.111	-.311
12	23	43.341	59.481	52.325	4.1932	-.217	-.525
13	20	44.073	57.113	52.043	3.4789	-.550	-.384
14	11	46.635	58.086	51.775	3.8264	-.051	-1.135





ANGULAR MEASUREMENT VARIABLE 59

Upper Incisor/Mandibular Plane

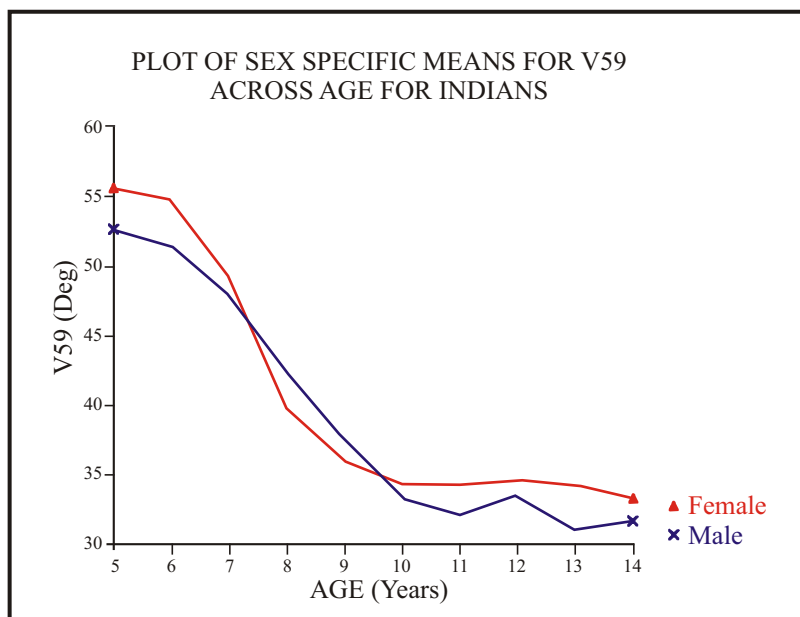
GOI-ME/UIA-UIE 28-1/12-7

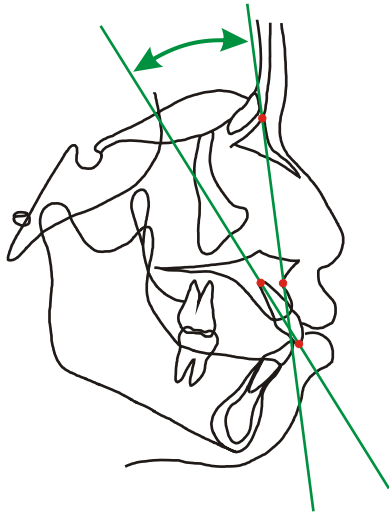
Male Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	13	42.366	62.067	52.694	5.0003	-.362	.209
6	20	42.065	70.166	51.531	7.2508	.765	.236
7	18	28.873	62.351	48.079	9.5408	-.445	-.754
8	22	27.326	60.298	42.779	9.3358	.198	-.845
9	22	27.727	53.373	37.938	6.8329	.660	.199
10	20	20.335	45.391	33.762	5.5260	-.398	.537
11	21	19.800	40.269	32.460	5.4058	-.403	-.317 **
12	18	22.073	50.513	34.063	5.9061	.801	2.015
13	21	21.801	40.579	31.636	5.3160	-.036	-.798
14	10	20.626	42.286	32.251	6.5876	-.279	-.672

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	44.415	66.934	55.079	6.5886	.149	-.640
6	18	42.458	63.104	54.787	6.2299	-.437	-.771
7	22	38.075	61.626	49.368	8.1876	.133	-1.349
8	23	26.937	56.577	40.259	6.6791	.224	.199
9	21	26.852	42.623	36.494	4.1197	-.691	.081
10	18	31.155	40.312	34.879	2.3671	.593	.154
11	21	26.233	39.861	34.724	3.3246	-.908	.681
12	22	29.744	41.036	35.093	3.1792	.138	-.676
13	20	28.350	41.515	34.798	3.7558	-.149	-1.051
14	11	25.794	39.703	33.933	4.2915	-.478	-.769





ANGULAR MEASUREMENT VARIABLE 60

Upper Incisor/Nasion-A Point Steiner Analysis

UIA-UIE/N-A

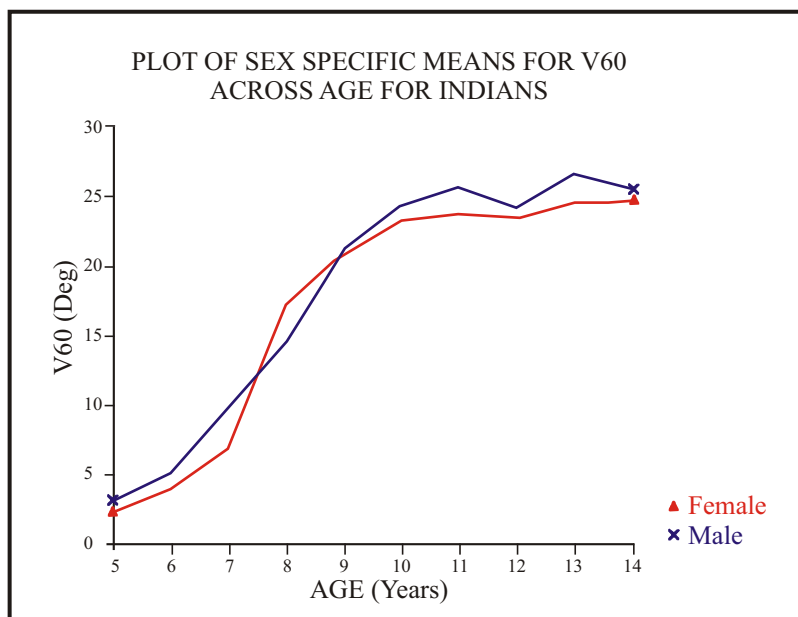
12-7/38-9

Male Indian

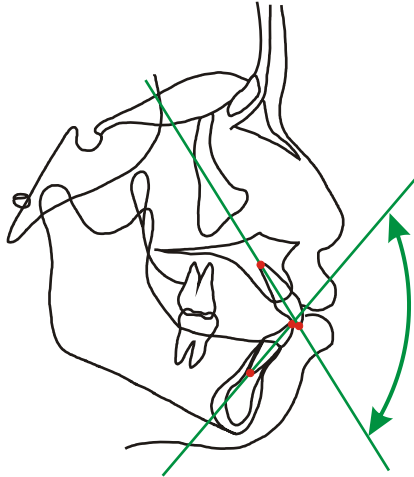
Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	14	-8.6318	15.850	2.9336	6.2483	.159	-.128
6	21	-4.9875	19.353	4.8780	6.3277	.434	.405
7	18	-6.1223	27.514	9.4676	8.5886	.180	-.475
8	22	-5.8835	27.581	14.100	9.5203	-.566	-.474
9	22	9.6101	31.095	20.712	5.5772	.372	-.329
10	21	14.109	31.616	23.949	4.7547	.026	-.693
11	21	16.054	33.386	25.059	5.2686	.029	-.976 *
12	19	15.723	30.771	23.709	4.8993	-.019	-1.203
13	21	17.564	35.367	26.077	4.6579	-.006	-.380
14	10	18.370	30.630	24.974	3.8442	-.160	-1.031

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	-10.011	11.063	2.1752	6.5181	-.404	-.991
6	19	-4.4937	16.368	3.7658	5.7584	.133	-.548
7	22	-6.3596	18.282	6.6879	7.2420	-.213	-1.045
8	23	1.9028	27.829	16.817	5.8698	-.377	.220
9	21	15.217	29.658	20.563	3.8141	.640	.062
10	19	18.712	27.510	22.843	2.7526	.073	-1.265
11	21	18.479	27.974	23.180	2.6080	-.069	-.529
12	22	15.412	27.773	23.021	2.8269	-.821	.745
13	20	17.550	31.212	23.983	3.7646	.268	-.560
14	11	19.796	30.908	24.167	3.9945	.512	-.973



ANGULAR MEASUREMENT VARIABLE 61



**Lower Incisor/Upper Incisor
Downs-Steiner Analysis**

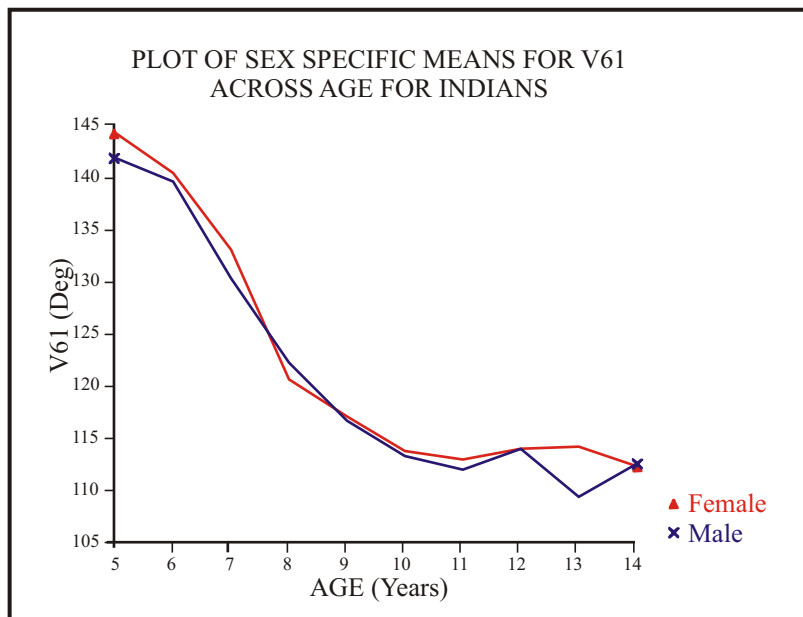
LIA-LIE/UIA-UIE 15-6/12-7

Male Indian

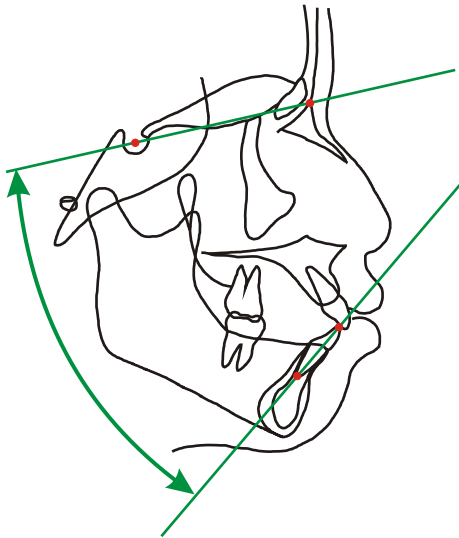
Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	14	128.26	157.29	141.98	7.0256	.156	.320
6	21	121.15	158.21	139.71	9.0496	-.026	-.401
7	18	111.95	146.10	130.45	10.119	-.273	-1.008
8	22	101.47	149.99	122.39	11.724	.324	-.096
9	22	103.61	133.01	116.84	7.6926	.283	-.483
10	21	105.25	126.45	113.46	6.0466	.395	-.515
11	21	102.67	127.01	112.16	6.9892	.308	-.910
12	19	102.38	126.56	114.15	6.3702	.140	-.725
13	20	98.806	122.20	109.56	5.9882	.223	-.635 **
14	10	104.25	126.46	112.72	6.3247	.710	.434

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	130.35	160.96	144.38	7.8993	.325	-.188
6	19	121.55	160.13	140.53	8.9834	-.142	.239
7	22	117.38	150.74	133.19	11.804	.126	-1.508
8	23	102.43	148.28	120.79	10.125	.753	.821
9	22	102.34	131.91	117.25	7.5453	.173	-.341
10	19	102.60	125.83	113.94	5.1293	.041	.797
11	22	95.070	128.41	113.13	7.0068	-.245	.828
12	23	100.67	127.46	114.16	5.9591	-.195	.222
13	20	104.85	128.35	114.36	6.4439	.384	-.599
14	11	102.91	120.62	112.49	6.3055	-.389	-1.235



ANGULAR MEASUREMENT VARIABLE 62



Lower Incisor/Sella-Nasion

LIA-LIE/S-N

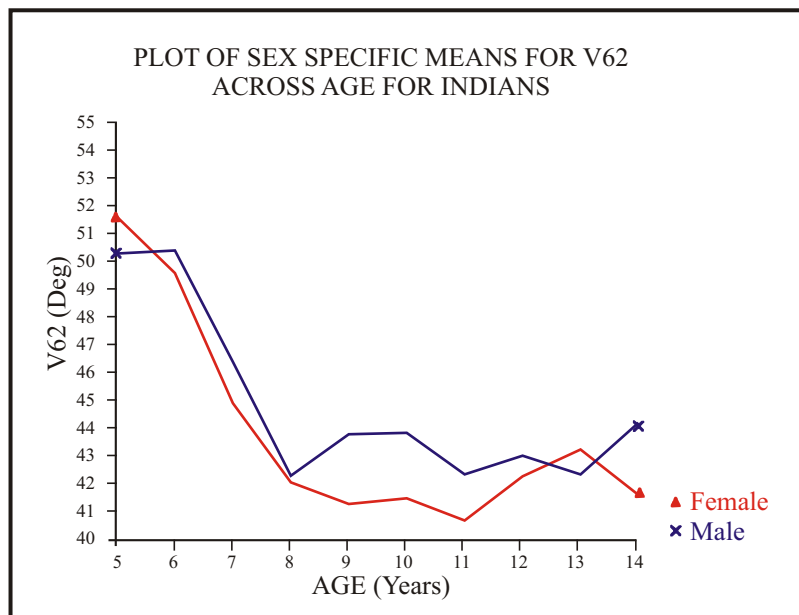
15-6/35-38

Male Indian

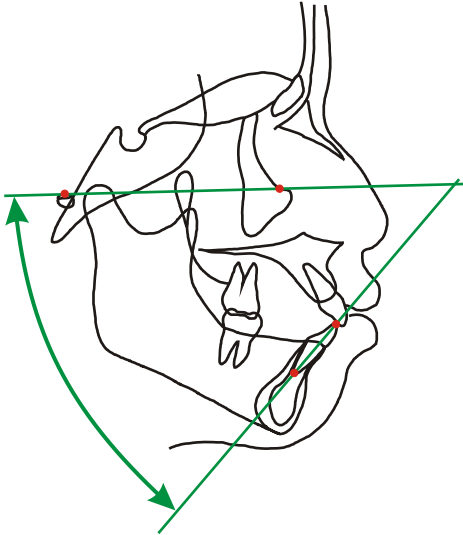
Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	14	41.627	56.980	50.245	4.4107	-.334	-.732
6	22	38.149	65.247	50.354	7.2714	.218	-.721
7	20	31.757	61.719	46.360	7.3215	.125	.193
8	23	28.406	60.225	42.275	7.5848	.218	.070
9	22	36.139	57.179	43.763	5.2246	.588	.260
10	20	34.736	55.473	43.814	5.0171	.543	.010
11	21	29.497	58.826	42.324	6.7621	.356	.218
12	19	23.513	58.373	42.994	6.1662	.469	.465
13	21	29.013	58.653	42.322	6.4209	.242	.641
14	10	31.204	54.980	44.176	6.3846	-.490	.292

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	47.493	59.734	51.559	3.5440	1.153	.344
6	20	40.002	63.938	49.544	6.1528	.488	-.253
7	23	32.750	56.575	44.877	6.0101	-.037	-.041
8	23	29.860	60.078	42.038	6.7842	.653	.651
9	21	30.483	46.479	41.262	3.9835	-.957	.765
10	19	32.546	46.886	41.466	4.1642	-.661	-.486
11	22	31.949	49.794	40.670	4.6212	.071	.097
12	23	34.172	50.128	42.254	4.6385	-.258	-1.094
13	20	30.915	55.335	43.216	6.2089	-.085	-.448
14	11	31.104	50.798	41.586	6.2428	-.348	-.994



ANGULAR MEASUREMENT VARIABLE 63



**Lower Incisor/Frankfort Plane
Tweed Analysis**

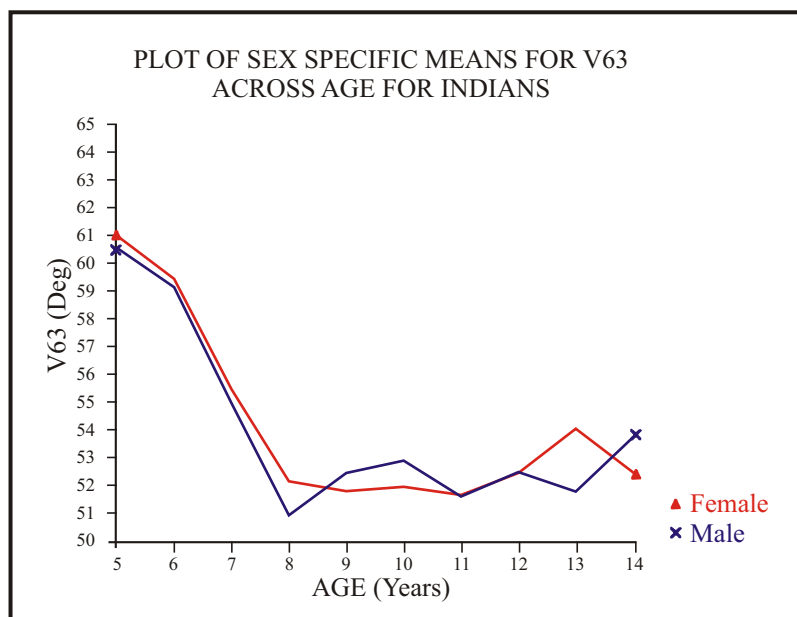
LIA-LIE/PO-OR 15-6/49-40

Male Indian

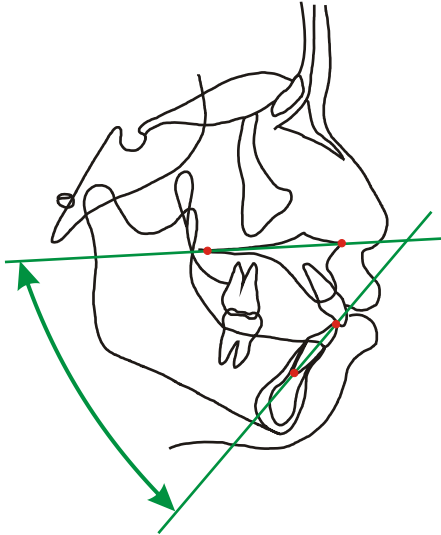
Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	14	53.024	74.357	60.520	5.9465	.715	.042
6	22	47.517	73.324	59.088	7.0901	.244	-.788
7	20	41.618	67.823	54.876	6.8829	-.039	-.222
8	22	40.761	60.612	50.808	5.8420	-.248	-.820
9	23	39.005	66.337	52.343	5.6343	-.151	.904
10	21	42.269	62.514	52.791	4.9272	-.419	.069
11	20	43.593	61.084	51.489	4.8619	.078	-.769
12	19	39.886	65.102	52.376	6.2249	-.139	-.091
13	21	40.064	65.878	51.668	5.9544	.158	.086
14	10	43.394	61.795	53.725	6.2069	-.481	-1.154

Female Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	15	55.735	67.605	60.965	3.2949	.304	-.665
6	20	48.913	70.211	59.391	5.8189	.148	-.449
7	23	42.366	66.421	55.383	5.9536	-.014	-.431
8	23	38.813	65.711	52.041	6.5533	-.138	-.108
9	22	41.448	57.464	51.683	4.4236	-.563	-.460
10	19	47.231	60.574	51.841	3.4968	.579	.068
11	22	43.580	67.039	51.545	5.4643	1.082	1.042
12	23	42.813	59.790	52.343	4.2860	-.256	-.606
13	20	42.679	65.442	53.950	5.8371	-.279	-.269
14	11	43.113	59.646	52.376	5.7749	-.354	-1.331



ANGULAR MEASUREMENT VARIABLE 64



Lower Incisor/Palatal Plane

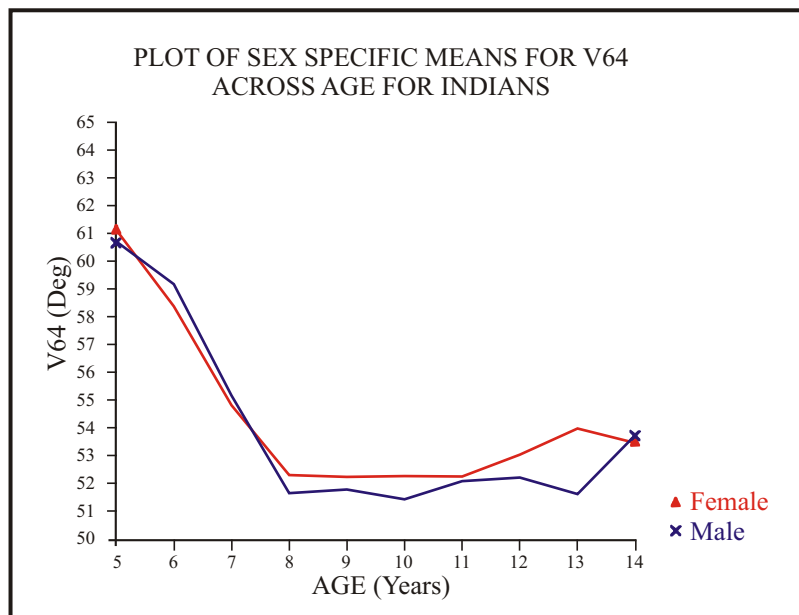
LIA-LIE/PNS-ANS 15-6/45-10

Male Indian

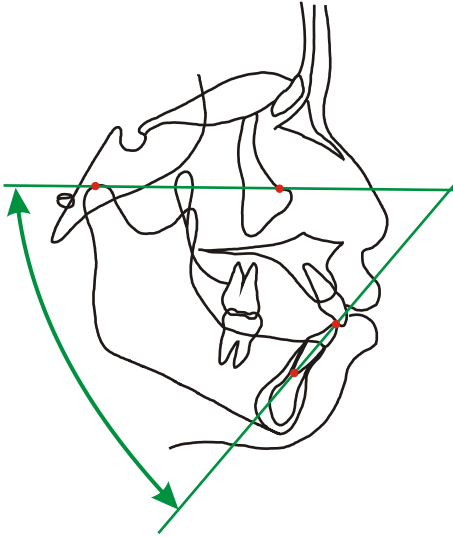
Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	14	53.036	71.779	60.904	4.5998	.404	.842
6	22	49.917	69.460	59.309	5.5175	.228	-.683
7	19	42.117	63.807	55.156	5.2388	-.925	-.705
8	23	41.819	64.372	51.514	5.5221	.353	-.363
9	23	39.369	61.550	51.650	5.2847	-.213	-.129
10	21	40.215	58.794	51.284	4.5517	-.668	.061
11	21	43.399	63.147	51.962	5.0836	.384	-.409
12	19	42.229	62.875	52.096	4.8993	.143	-.010
13	21	40.484	63.577	51.480	5.2116	.070	.109
14	10	44.179	61.807	53.675	4.9050	-.455	-.094

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	52.242	67.324	61.339	3.9846	-.681	.000
6	20	48.074	69.410	58.483	5.2487	-.052	-.480
7	23	40.426	67.358	54.793	6.3636	-.172	-.267
8	23	41.941	65.810	52.189	6.1126	.244	-.565
9	22	41.678	58.469	52.120	4.6954	-.407	-.856
10	19	46.645	59.733	52.151	4.1980	.448	-.970
11	22	42.761	64.603	52.135	4.9620	.464	.177
12	23	43.842	60.504	52.950	4.2585	-.216	-.648
13	20	41.116	63.537	53.925	5.4261	-.534	.123
14	11	43.923	59.228	53.388	5.0206	-.765	-.657



ANGULAR MEASUREMENT VARIABLE 65



Lower Incisor/Condylar Plane

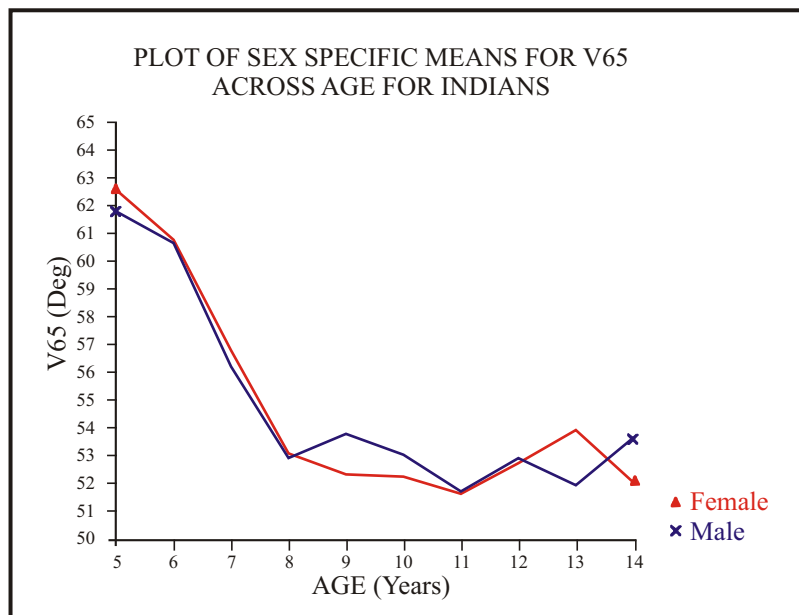
LIA-LIE/CO-OR 15-6/33-40

Male Indian

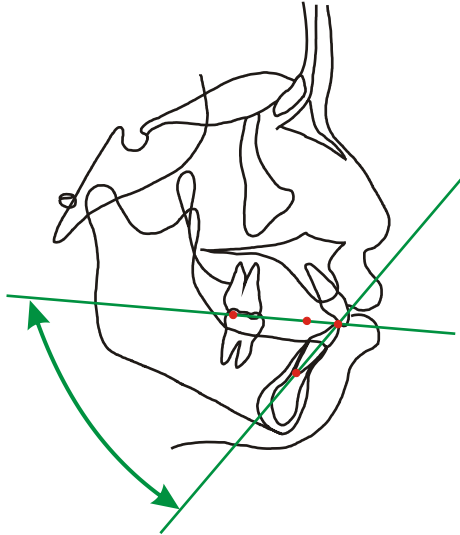
Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	14	52.966	75.355	61.861	5.7743	.601	.254
6	22	48.520	74.325	60.736	7.0028	.251	-.715
7	20	44.031	71.601	56.350	6.6777	.258	.162
8	23	42.123	69.869	53.103	6.9619	.378	-.050
9	22	44.559	65.525	53.960	5.0144	.045	.043
10	21	43.076	61.752	53.219	4.9846	-.197	-.761
11	20	44.702	62.284	51.916	4.5143	.310	-.329
12	19	42.906	65.175	53.098	5.8714	.088	-.394
13	21	42.206	65.857	52.137	5.5615	.347	.142
14	10	45.418	63.535	53.823	5.7652	.036	-1.031

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	58.133	69.042	62.627	2.6282	.586	.728
6	20	48.400	72.957	60.852	6.1164	.050	-.337
7	23	43.006	67.825	56.926	6.1741	-.320	-.491
8	23	42.267	66.975	53.266	6.3189	.097	-.403
9	22	41.898	59.302	52.521	4.4921	-.425	-.319
10	19	46.079	59.217	52.441	3.6963	.147	-.612
11	22	44.085	66.517	51.832	5.3989	.951	.722
12	23	45.296	60.669	52.920	3.8245	-.098	-.572
13	20	42.529	66.180	54.095	6.1138	-.249	-.209
14	11	43.207	59.365	52.239	5.4552	-.439	-1.132



ANGULAR MEASUREMENT VARIABLE 66



**Lower Incisor/Functional
Occlusal Plane**

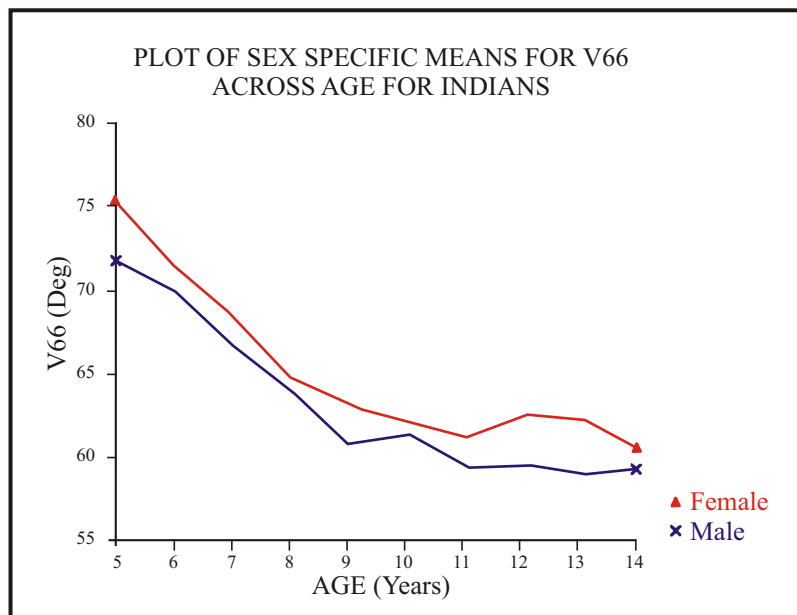
LIA-LIE/FPP-PMC 15-6/50-46

Male Indian

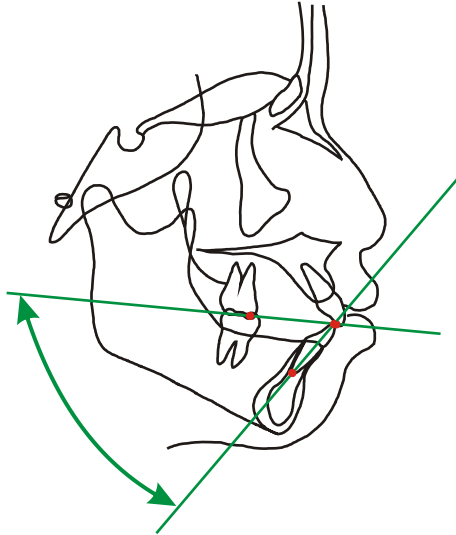
Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	15	65.940	83.331	72.818	4.5599	.599	.014
6	21	58.984	83.107	71.327	5.7114	-.247	-.110
7	20	58.719	76.787	68.642	5.2074	-.291	-.686
8	23	57.546	79.822	66.343	5.9527	.385	-.439
9	22	53.993	71.746	63.824	4.0514	-.329	.518
10	20	56.279	69.640	64.237	3.5334	-.331	-.481
11	20	55.735	70.455	62.739	4.0795	.390	-.728 **
12	18	54.181	72.486	63.699	4.6332	-.046	-.512
13	20	56.508	68.218	62.339	3.5769	-.314	-.983
14	10	57.925	68.959	62.601	4.2237	.679	-1.248

Female Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	15	67.436	85.086	75.181	4.6275	.280	.039
6	20	64.456	82.193	72.481	5.8502	.177	-1.163
7	23	61.819	83.078	70.087	5.5126	.475	-.257
8	23	55.248	78.689	66.979	6.8899	.186	-.968
9	22	57.908	74.257	65.739	4.8406	.238	-1.145
10	19	55.286	74.121	64.883	4.7845	-.276	-.465
11	22	56.614	76.680	64.145	5.2161	.597	-.039
12	23	58.119	75.203	65.232	4.2389	.378	-.344
13	20	54.950	73.003	64.982	5.0845	-.557	-.821
14	11	55.020	69.064	63.442	4.8065	-.688	-.831



ANGULAR MEASUREMENT VARIABLE 67



**Lower Incisor/Downs Occlusal
Plane**

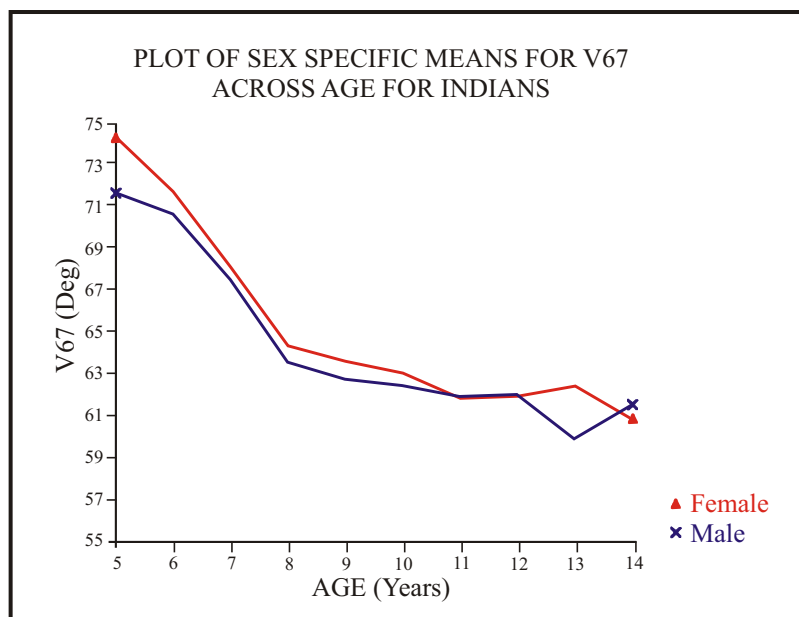
LIA-LIE/PDP-ADP 15-6/57-56

Male Indian

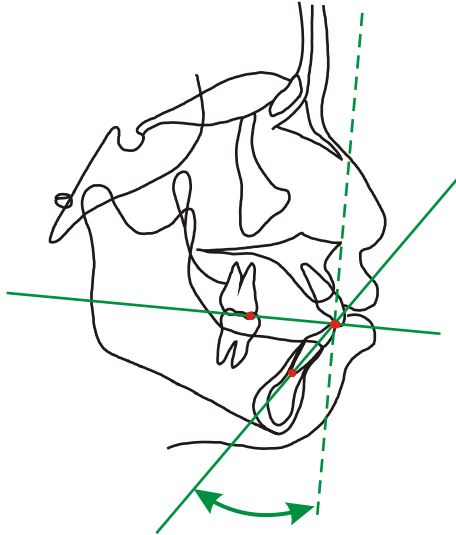
Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	15	63.177	84.472	71.545	6.6021	.664	-.512
6	21	59.337	79.167	70.529	5.1276	-.145	-.412
7	19	60.319	78.055	67.399	4.3623	.420	.062
8	23	49.244	73.643	63.456	5.9880	-.325	-.230
9	23	54.369	71.000	62.643	4.5329	.277	-.436
10	21	54.243	71.531	62.339	4.1005	.177	-.110
11	20	55.167	68.888	61.818	3.5646	.195	-.669
12	19	52.303	70.822	61.913	4.4382	.170	.166
13	20	53.589	66.907	59.796	3.9872	.382	-.819
14	10	55.178	67.206	61.404	4.0848	-.165	-1.093

Female Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	15	66.581	83.051	74.214	4.3187	-.024	-.130
6	20	60.354	80.865	71.603	5.0720	.009	-.229
7	22	60.343	73.667	68.007	4.2918	-.289	-1.356
8	23	55.561	75.951	64.237	5.6372	.579	-.413
9	22	56.877	71.535	63.499	4.1176	-.057	-1.052
10	19	54.521	68.575	62.934	3.7889	-.344	-.345
11	22	51.939	69.641	61.731	4.5017	-.211	-.552
12	23	53.693	68.923	61.830	4.1567	-.065	-.935
13	20	54.390	72.824	62.315	4.5789	.129	.031
14	11	54.683	64.801	60.712	3.7702	-.491	-1.483



ANGULAR MEASUREMENT VARIABLE 68



**Lower Incisor/Downs Occlusal Plane
(Downs Analysis)**

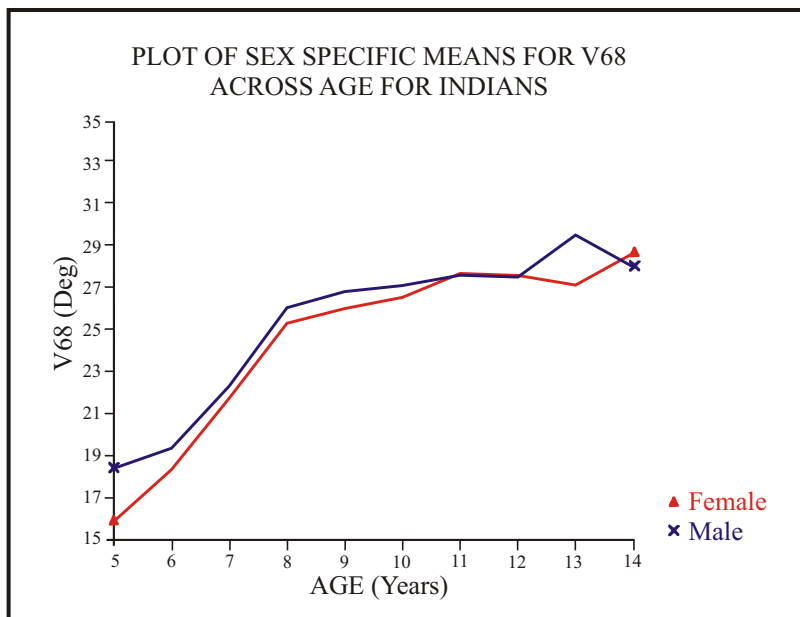
LIA-LIE/PDP-ADP (15-6/57-56)

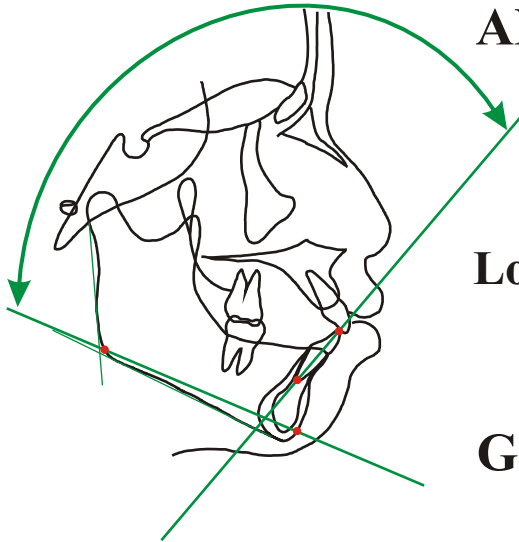
Male Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	5.5273	26.823	18.454	6.6021	-.664	-.512
6	21	10.832	30.663	19.471	5.1276	.145	-.412
7	19	11.945	29.680	22.601	4.3622	-.420	.062
8	23	16.356	40.755	26.544	5.9880	.325	-.230
9	23	19.000	35.631	27.356	4.5329	-.277	-.436
10	21	18.469	35.756	27.661	4.1005	-.177	-.110
11	20	21.112	34.832	28.182	3.5646	-.195	-.669
12	19	19.177	37.697	28.087	4.4382	-.170	.166
13	20	23.093	36.411	30.204	3.9872	-.382	-.819
14	10	22.794	34.822	28.596	4.0848	.165	-1.093

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	6.9492	23.418	15.785	4.3187	.024	-.130
6	20	9.1345	29.646	18.397	5.0719	-.009	-.229
7	22	16.332	29.656	21.992	4.2917	.289	-1.356
8	23	14.049	34.438	25.762	5.6372	-.579	-.413
9	22	18.465	33.123	26.501	4.1176	.057	-1.052
10	19	21.424	35.479	27.066	3.7889	.344	-.345
11	22	20.359	38.061	28.268	4.5017	.211	-.552
12	23	21.076	36.306	28.169	4.1567	.065	-.935
13	20	17.176	35.610	27.685	4.5789	-.129	.031
14	11	25.199	35.317	29.288	3.7703	.491	-1.483





ANGULAR MEASUREMENT VARIABLE 69

Lower Incisor/Gonion-Gnathion

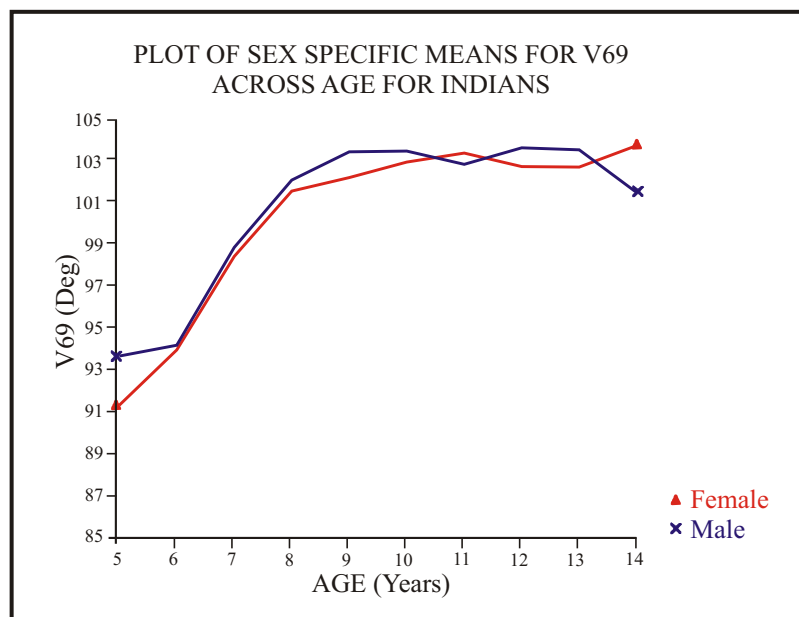
GO-GN/LIE-LIA 27-2/6-15

Male Indian

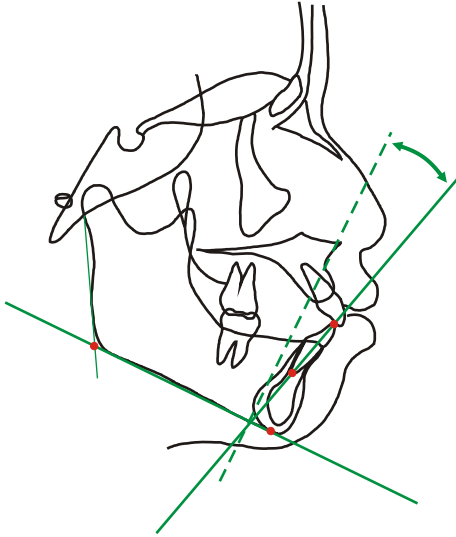
Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	15	78.823	109.61	93.593	7.0166	.160	.936
6	22	79.178	109.06	94.026	7.0225	-.260	-.034
7	20	84.115	109.96	97.938	6.1252	-.381	.157
8	23	88.001	113.41	100.63	5.6432	-.238	.193
9	23	90.025	110.75	101.76	4.9292	-.543	.025
10	21	94.508	110.19	101.79	4.4745	-.025	-.983
11	21	91.426	107.74	101.26	4.9055	-.349	-.855
12	19	92.947	111.83	101.92	5.5761	-.035	-1.051
13	21	91.992	108.98	101.84	4.7163	-.319	-.717
14	10	90.326	106.95	100.13	5.8403	-.333	-1.146

Female Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	15	85.378	98.373	91.626	3.4878	.450	-.290
6	20	82.776	104.44	93.838	5.8734	-.133	-.961
7	22	89.368	106.89	97.578	4.7107	-.035	-.716
8	23	85.474	112.15	100.19	6.6052	-.461	-.355
9	22	91.201	107.55	100.73	4.5783	-.336	-.888
10	19	94.681	109.31	101.35	4.3027	.476	-.726
11	22	92.040	108.46	101.71	4.6739	-.331	-.659
12	23	92.481	108.27	101.17	3.9963	-.201	-.455
13	20	88.941	110.74	101.15	5.2128	-.283	.070
14	11	94.867	109.53	102.01	4.7800	.327	-1.003



ANGULAR MEASUREMENT VARIABLE 70



**Lower Incisor/Mandibular Plane
Downs Analysis**

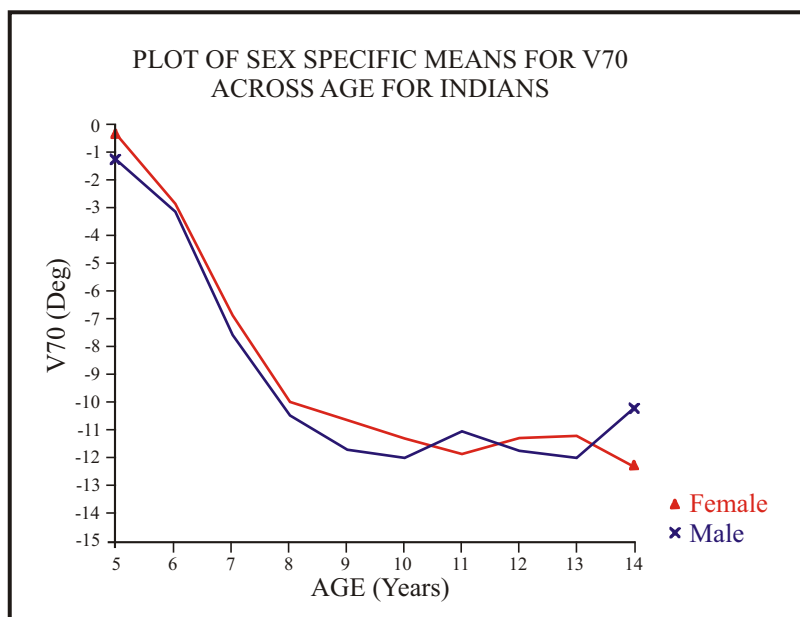
**GOI-ME/LIE-LIA 28-1/6-15|
-90 deg**

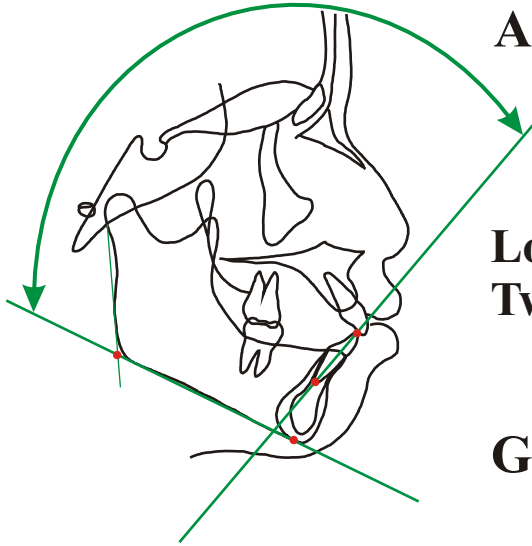
Male Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	14	-12.909	12.902	-1.2773	5.8751	.573	1.289
6	22	-19.331	11.289	-3.1263	7.3231	.115	-.119
7	20	-21.142	7.8352	-7.1491	6.8397	.213	.151
8	23	-23.402	3.7134	-9.7729	6.0739	.233	.153
9	23	-20.808	.93750	-10.891	5.3600	.309	-.180
10	21	-20.491	-2.5469	-11.157	4.9914	-.038	-.923
11	21	-18.014	-.50805	-10.291	5.0856	.263	-.894
12	19	-22.733	-2.0669	-10.926	5.8853	-.113	-.908
13	21	-19.678	-1.6936	-11.157	5.0889	.145	-.903
14	10	-16.807	1.3691	-9.5341	6.4971	.352	-1.201

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	-7.4451	5.3987	-.66757	3.5869	-.506	-.505
6	20	-12.670	7.0281	-2.8681	5.9533	.062	-1.206
7	22	-15.894	.99585	-6.5084	4.6980	-.067	-.695
8	23	-21.361	4.7861	-9.3315	6.5588	.387	-.346
9	22	-16.717	-1.5530	-9.9254	4.4880	.233	-1.105
10	19	-18.556	-4.4839	-10.524	4.2830	-.446	-.832
11	22	-17.881	-1.4502	-11.031	4.5283	.276	-.712
12	23	-17.402	-3.3855	-10.510	3.8607	.076	-.759
13	20	-20.555	1.7732	-10.439	5.0455	.264	.491
14	11	-19.845	-4.5828	-11.446	4.9150	-.471	-.890





ANGULAR MEASUREMENT VARIABLE 71

**Lower Incisor/Mandibular Plane
Tweed Analysis**

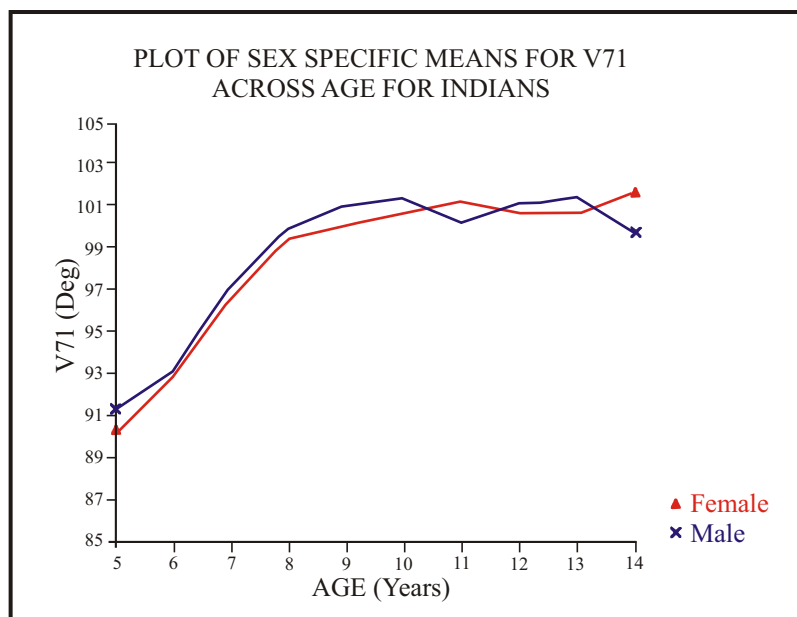
GOI-ME/LIE-LIA 28-1/6-15

Male Indian

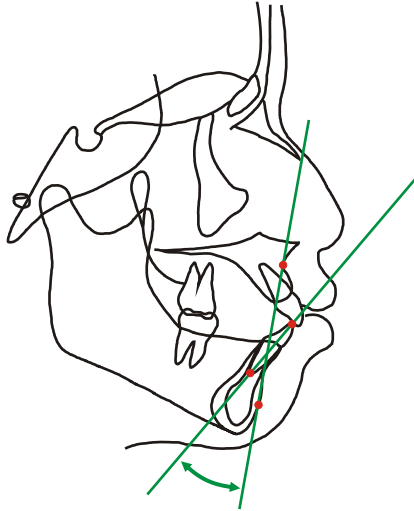
Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	14	77.098	102.91	91.277	5.8752	-.573	1.289
6	22	78.711	109.33	93.126	7.3230	-.115	-.119
7	20	82.165	111.14	97.149	6.8397	-.213	.151
8	23	86.287	113.40	99.773	6.0740	-.233	.153
9	23	89.063	110.81	100.89	5.3600	-.309	-.181
10	21	92.547	110.49	101.16	4.9914	.038	-.923
11	21	90.508	108.01	100.29	5.0856	-.263	-.894
12	19	92.067	112.73	100.93	5.8853	.113	-.908
13	21	91.694	109.68	101.16	5.0890	-.145	-.902
14	10	88.631	106.81	99.534	6.4971	-.352	-1.201

Female Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	15	84.602	97.445	90.668	3.5869	.506	-.505
6	20	82.972	102.67	92.868	5.9533	-.062	-1.206
7	22	89.004	105.89	96.508	4.6980	.067	-.695
8	23	85.214	111.36	99.332	6.5588	-.387	-.346
9	22	91.553	106.72	99.926	4.4880	-.233	-1.105
10	19	94.484	108.56	100.52	4.2830	.446	-.832
11	22	91.450	107.88	101.03	4.5283	-.276	-.712
12	23	93.386	107.40	100.51	3.8607	-.076	-.759
13	20	88.227	110.56	100.44	5.0455	-.264	.491
14	11	94.583	109.85	101.45	4.9150	.471	-.890



ANGULAR MEASUREMENT VARIABLE 72



**Lower Incisor/A Point-Pogonion
Ricketts Analysis**

PG-A/LIA-LIE

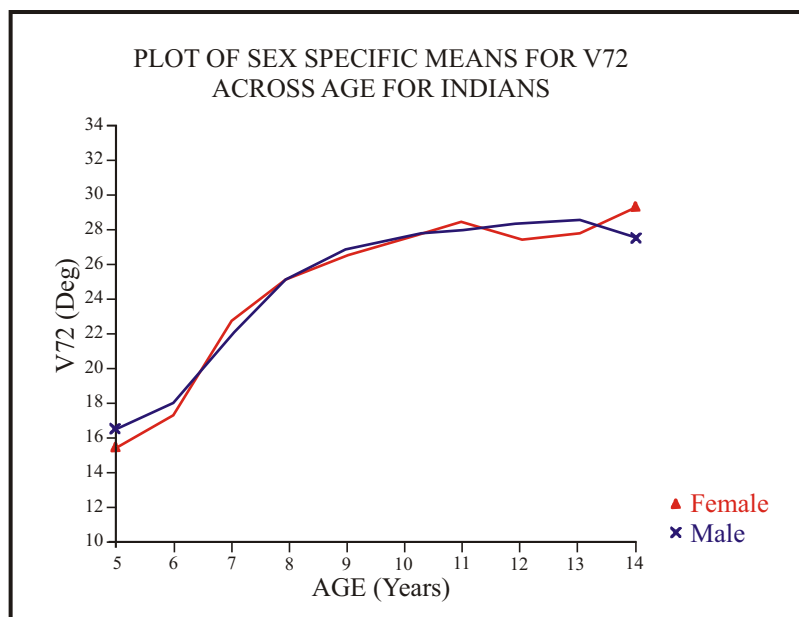
3-9/15-6

Male Indian

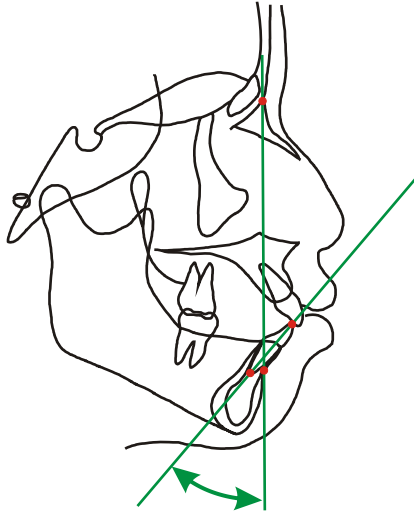
Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	7.1382	23.710	16.716	4.1584	-.449	.186
6	22	8.7654	26.152	18.251	5.3066	-.058	-.954
7	20	15.707	33.104	22.283	4.4307	.614	.051
8	23	15.571	35.723	25.788	4.7514	-.037	-.397
9	23	19.525	34.449	27.394	3.8250	-.244	-.367
10	21	23.279	35.027	28.096	3.0792	.339	-.574
11	21	21.245	35.172	28.581	3.8329	-.412	-.692
12	19	22.418	37.498	28.932	3.5349	.289	.257
13	21	22.605	34.541	29.128	3.3291	-.183	-.737
14	10	24.142	31.571	28.099	2.7084	-.084	-1.519

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	7.3582	22.844	15.572	4.2733	-.484	-.163
6	20	5.6650	25.894	17.558	4.9699	-.437	-.004
7	22	14.750	31.897	23.086	4.6287	-.154	-.907
8	23	10.732	34.156	25.683	6.1327	-.715	-.319
9	22	16.755	32.558	27.050	4.3884	-.551	-.483
10	19	20.815	34.242	28.083	3.4285	.025	-.309
11	22	19.703	33.404	28.641	3.7349	-1.015	.503
12	23	19.316	32.802	27.931	3.4926	-.531	-.237
13	20	19.215	34.510	28.404	4.7749	-.413	-.778
14	11	23.640	35.961	29.937	4.0238	-.150	-1.307



ANGULAR MEASUREMENT VARIABLE 73



**Lower Incisor/Nasion-B Point
Steiner Analysis**

B-N/LIA-LIE

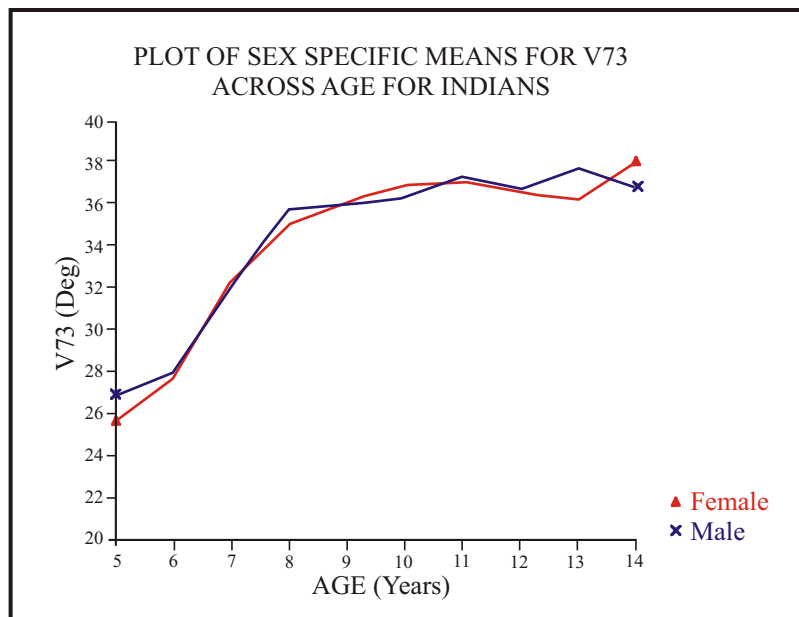
4-38/15-6

Male Indian

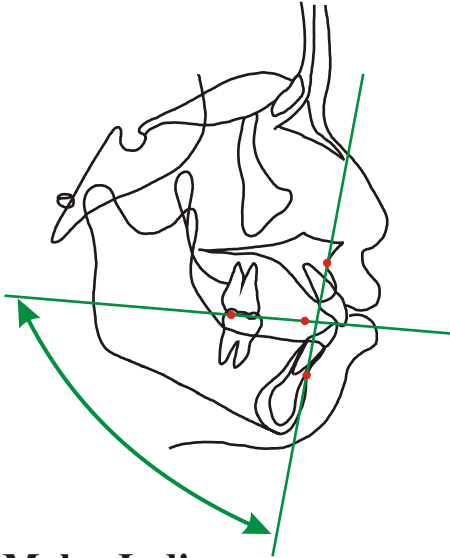
Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	15	15.437	37.321	26.978	5.3100	-.136	.140
6	22	17.042	35.674	28.081	5.2749	-.514	-.536
7	20	22.855	41.436	31.973	4.7318	.219	-.414
8	22	27.687	43.094	35.778	4.3407	.040	-.961
9	23	26.738	46.225	35.940	4.3898	-.088	.328
10	21	29.248	43.468	36.276	3.6295	.149	-.204
11	20	28.366	43.409	37.250	3.5208	-.554	.396
12	19	27.848	45.715	36.664	4.1771	-.363	.506
13	21	28.220	43.722	37.644	4.0457	-.436	-.174
14	10	30.644	43.076	36.647	3.8461	.139	-.891

Female Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	15	16.782	33.684	25.788	4.3351	-.089	-.307
6	20	14.475	36.384	27.790	5.5952	-.444	-.140
7	23	18.267	43.113	32.284	5.8004	-.348	.057
8	23	18.785	43.558	34.974	6.5870	-.772	-.115
9	22	24.873	43.383	36.063	4.6230	-.477	-.091
10	19	29.130	46.092	36.807	4.2049	.222	-.047
11	22	25.767	46.126	37.038	4.9701	-.551	.220
12	23	27.264	45.461	36.493	4.3669	.096	-.288
13	20	25.571	45.242	36.160	5.4809	.092	-.698
14	11	30.761	49.260	37.963	5.7279	.687	-.640



ANGULAR MEASUREMENT VARIABLE 73.1



**A Point-B Point/Functional
Occlusal Plane**

A-B/PMC-FPP

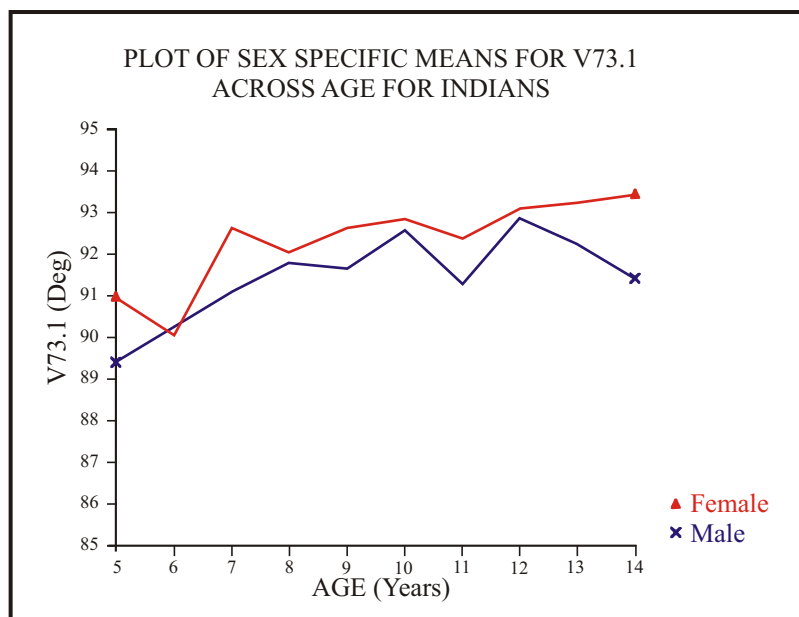
9-4/46-50

Male Indian

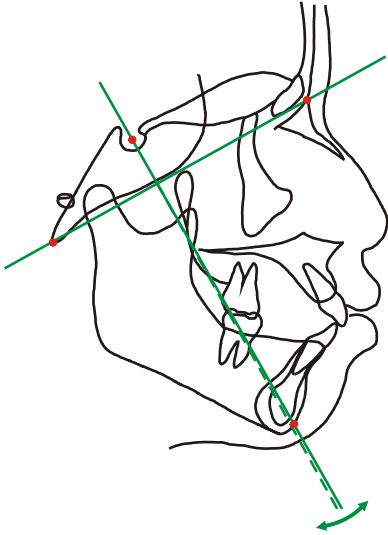
Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	86.195	93.679	89.372	2.3481	.234	-.979
6	21	86.105	96.207	90.242	2.9809	.283	-1.002
7	20	86.143	95.323	91.039	2.7359	-.091	-1.010 *
8	23	86.000	98.385	91.743	3.2868	.340	-.380
9	23	87.602	100.38	91.627	3.8957	1.082	.007
10	21	88.318	101.25	92.620	3.6840	1.000	-.125
11	20	85.886	98.474	91.251	3.9702	.700	-.756 *
12	18	84.336	102.60	92.851	4.8255	.495	-.082
13	21	86.014	99.008	92.239	3.6561	.161	-.845
14	10	86.384	96.426	90.994	3.3551	.436	-.906

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	82.321	96.547	90.999	4.2383	-.725	-.158
6	20	84.425	95.068	90.031	3.2909	-.033	-1.109
7	21	89.471	95.425	92.560	1.6138	.021	-.561
8	22	85.943	97.037	92.073	2.5302	-.251	.231
9	22	88.579	98.138	92.593	2.7327	.493	-.509
10	19	87.662	98.383	92.847	2.9582	.035	-.824
11	22	86.154	96.966	92.399	2.7603	-.459	.030
12	23	88.570	99.249	93.053	2.8385	.691	-.234
13	20	87.096	101.17	93.191	3.6695	.258	-.527
14	11	87.236	101.65	93.436	4.3905	.419	-.532



ANGULAR MEASUREMENT VARIABLE 74



Gnathion-Sella/Basion-Nasion Ricketts Analysis

N-BA/GN-S

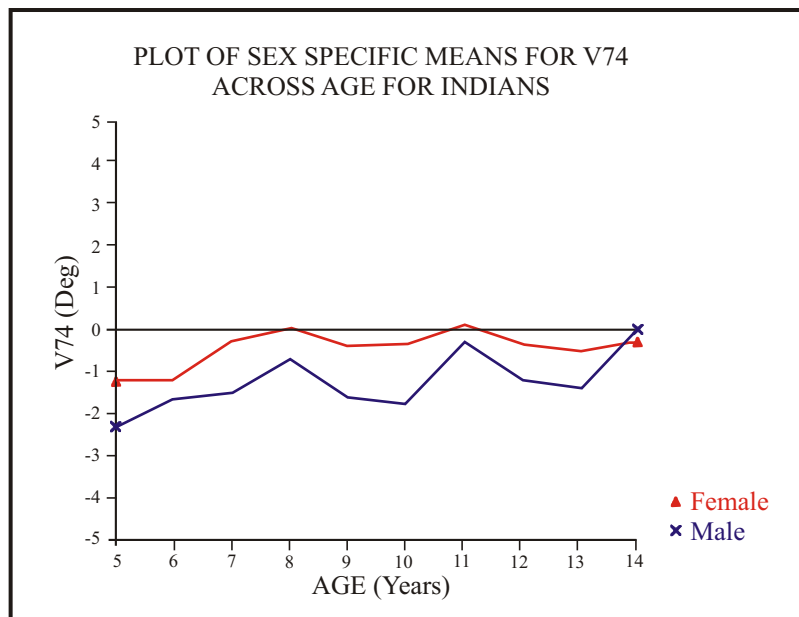
**38-30/2-35
-90 deg**

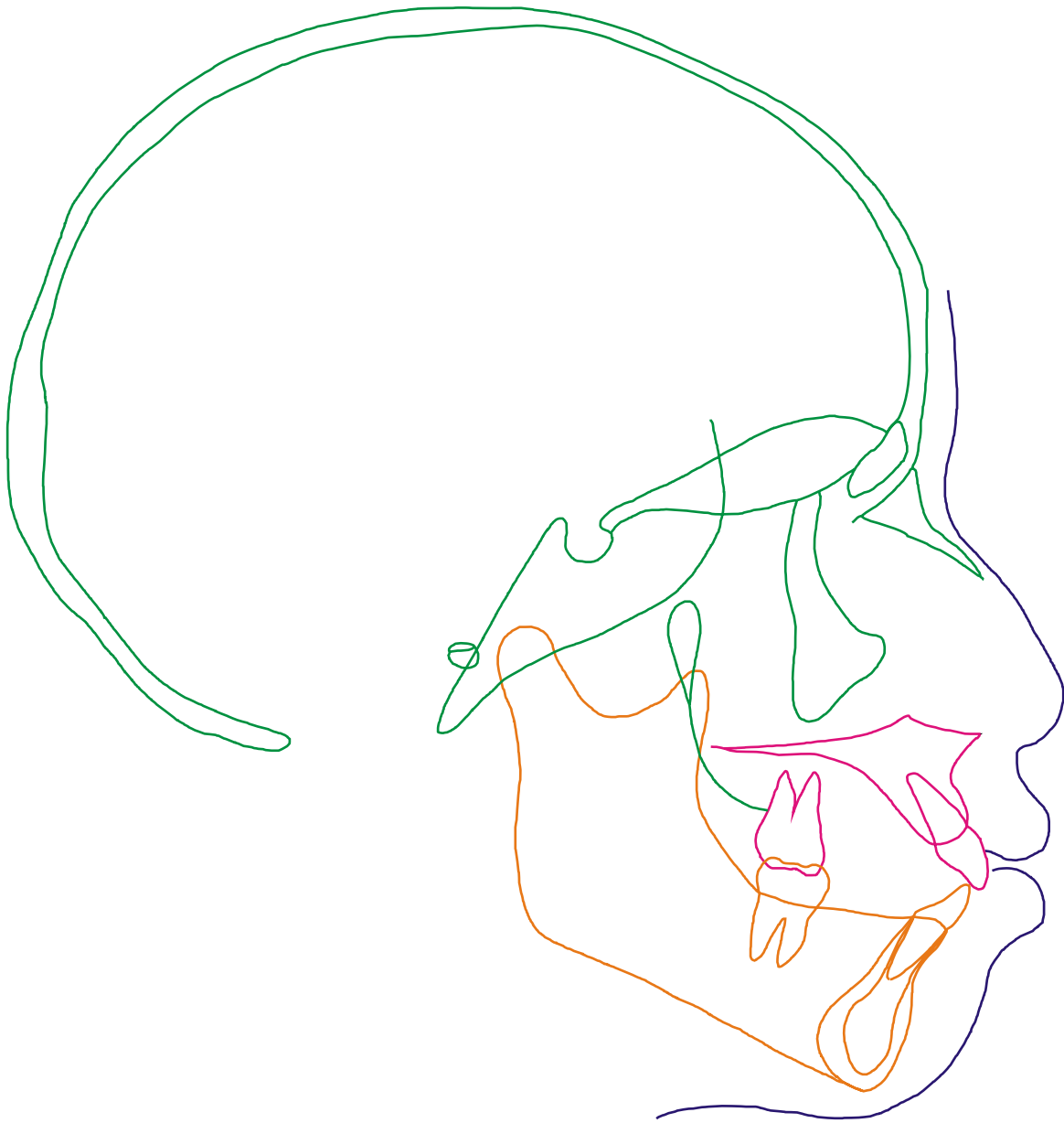
Male Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	14	-7.7805	2.4627	-2.3737	2.9889	-.228	-.925
6	22	-6.5361	2.5830	-1.6784	2.6443	.125	-.870
7	19	-6.4519	3.7007	-1.5110	2.8837	.055	-.950
8	22	-5.1372	4.6563	-.74116	2.9034	.373	-.894
9	22	-6.5764	3.8936	-1.6197	2.9854	.575	-.541
10	20	-6.0618	4.9966	-1.7619	3.0055	.626	-.380
11	21	-6.0247	8.6211	-.38231	3.8902	.689	-.116
12	19	-6.0215	5.5984	-1.1946	3.4719	.657	-.396
13	20	-5.0110	7.3992	-1.3665	3.3460	1.089	.573
14	10	-6.0117	11.617	.17435	5.0493	1.156	.842

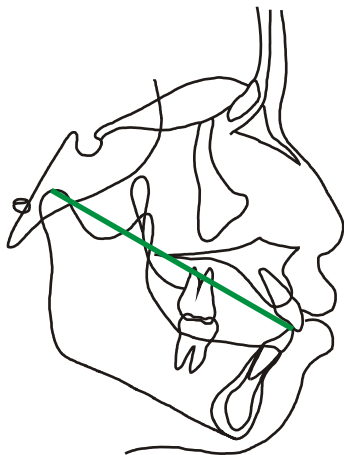
Female Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	15	-7.0608	1.9194	-1.3790	2.5056	-.648	-.198
6	20	-6.0347	2.5142	-1.2207	2.7661	-.459	-1.178
7	23	-5.1902	5.0161	-.31226	2.4958	.017	-.012
8	22	-4.9446	4.3423	.95808	2.4298	.105	-.292
9	22	-7.9114	5.2097	-.43990	2.9462	-.560	.540
10	18	-5.6167	4.6397	-.34232	2.7142	.078	-.490
11	22	-7.6294	5.0291	.83522	3.1975	-.346	-.199
12	23	-8.3403	5.4944	-.33524	3.3431	-.197	.023
13	20	-6.4705	4.4363	-.50200	2.9148	.144	-.367
14	11	-4.6619	4.9465	-.25901	2.8581	.324	-.607





**9. MEDIDAS LINEALES
LINEAR MEASUREMENTS
(75-188)**



LINEAR MEASUREMENT VARIABLE 75

**Condylion-Lower Incisor Incisal
Edge**

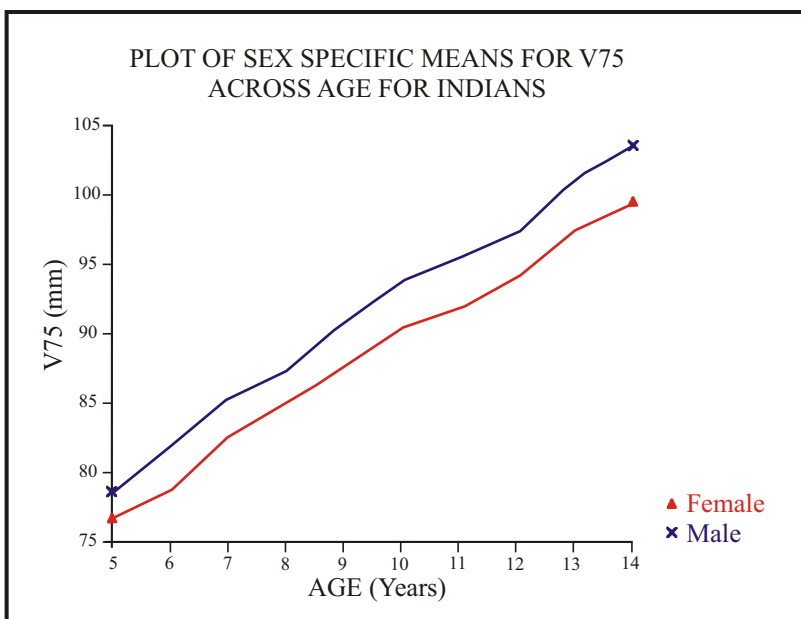
CO-LIE

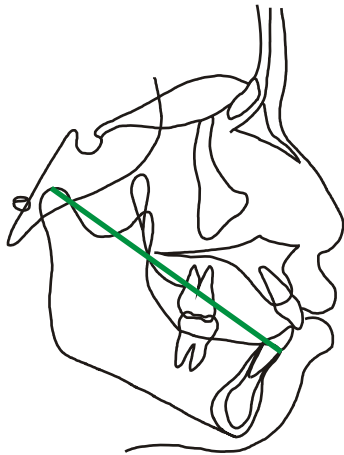
33-6

Male Indian

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis		Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	14	74.406	83.711	78.375	2.6060	.556	-.233		5	15	70.114	83.667	76.499	3.7809	.071	-.782
6	22	78.051	88.081	81.654	2.4622	.627	.296	**	6	19	74.489	84.118	78.549	2.7941	.380	-.813
7	20	79.928	92.205	84.923	3.0626	.828	.267	*	7	23	76.491	87.454	82.306	3.2807	-.248	-1.181
8	22	83.729	91.091	87.006	2.3477	.305	-1.251	**	8	23	78.132	90.333	84.555	3.6445	.094	-1.243
9	22	86.259	97.047	90.410	2.4463	.544	.860	**	9	22	80.805	93.375	87.321	3.2805	.119	-.563
10	21	88.715	99.057	93.209	2.8286	.602	-.186	**	10	19	82.719	97.171	89.902	3.8524	.131	-.833
11	21	89.003	101.41	94.919	3.2266	.031	-.422	**	11	22	83.313	97.445	91.333	3.8571	-.134	-.727
12	19	91.732	101.89	96.632	2.8470	-.047	-.595	**	12	23	85.646	100.95	93.509	3.9898	.227	-.489
13	21	95.251	108.34	100.41	3.3377	1.049	.662	**	13	20	88.227	105.58	96.913	4.7919	.157	-.731
14	10	97.246	107.93	102.66	3.1199	.017	-.618	**	14	11	92.244	106.69	98.690	4.6462	.066	-1.032





LINEAR MEASUREMENT VARIABLE 76

Condylion-Infradentale

CO-ID

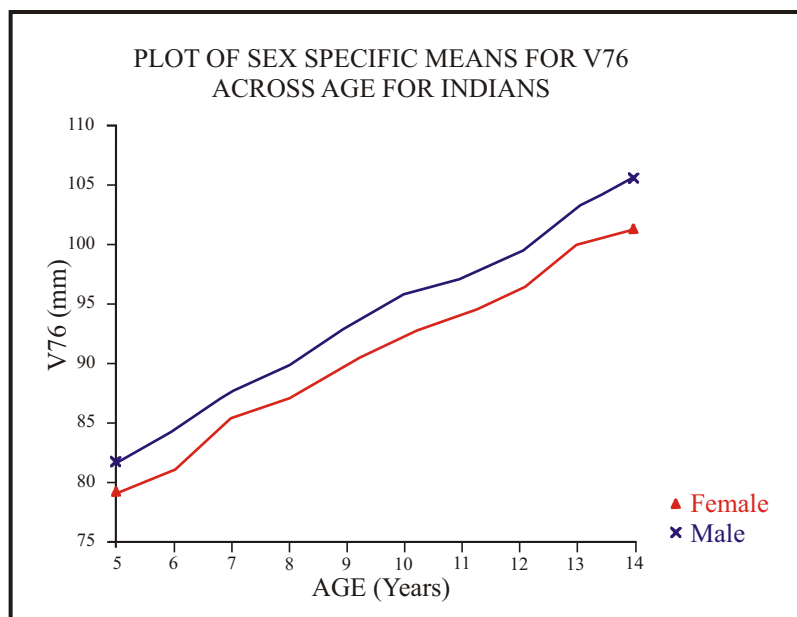
33-5

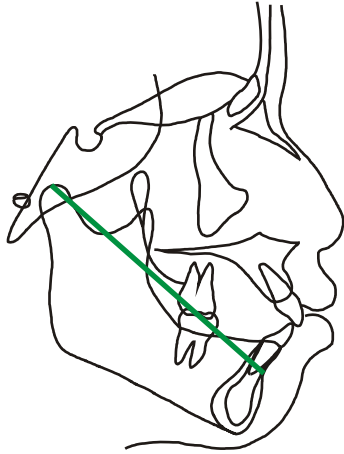
Male Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis	
5	15	76.813	91.817	81.752	3.9668	1.088	.883	*
6	22	79.853	90.520	84.386	2.5318	.408	.108	**
7	20	82.736	94.312	87.672	3.1871	.649	-.192	*
8	23	85.725	96.960	89.830	3.1201	.603	-.613	**
9	22	88.393	98.950	93.002	2.5356	.291	-.051	**
10	21	90.708	102.05	95.822	3.0061	.624	-.463	**
11	20	91.801	103.83	97.082	3.2440	.395	-.568	**
12	19	93.338	106.06	99.296	3.3437	.125	-.584	**
13	21	98.033	113.14	103.00	3.7720	1.179	1.046	**
14	10	100.15	110.80	105.49	2.9990	.065	-.374	**

Female Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis	
5	15	72.656	86.090	79.160	3.7976	.096	-.853	
6	19	76.975	86.965	81.169	2.7184	.345	-.556	
7	23	78.735	91.401	85.493	3.1296	-.276	-.588	
8	23	81.609	92.093	87.112	3.4609	.077	-1.234	
9	22	85.024	95.389	89.917	3.0644	.253	-.871	
10	19	87.273	98.795	92.314	3.7686	.238	-1.103	
11	22	85.616	99.417	94.000	3.5565	-.401	-.223	
12	23	87.836	102.50	96.274	3.6912	-.012	-.291	
13	20	90.457	109.57	99.842	4.7060	.262	-.058	
14	11	94.783	107.41	101.17	4.1702	-.107	-1.267	





LINEAR MEASUREMENT VARIABLE 77

Condylion-B Point

CO-B

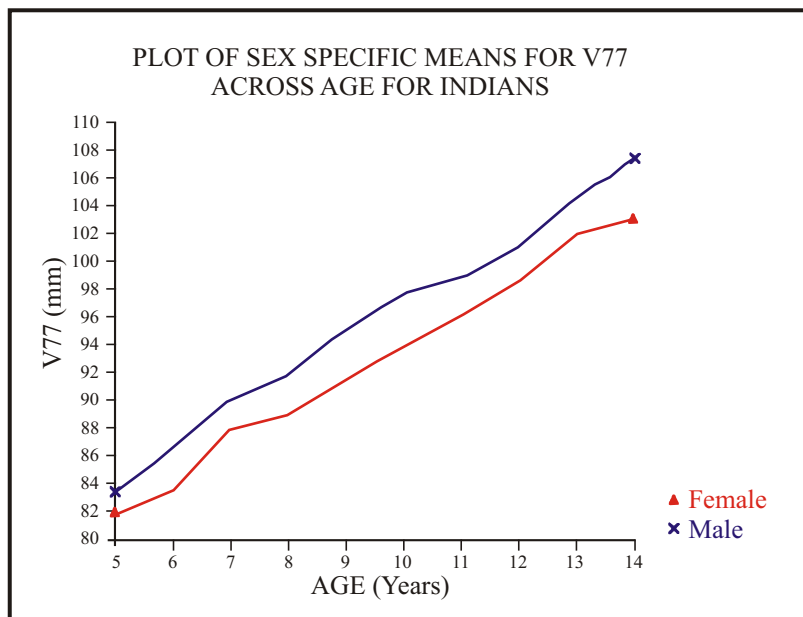
33-4

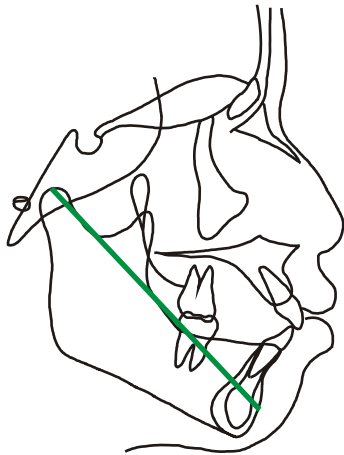
Male Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	14	79.539	89.705	83.309	2.9358	.535	-.265
6	22	81.419	91.966	86.537	2.6529	.473	.202 **
7	20	83.966	96.294	89.924	3.4642	.405	-.810 *
8	23	86.997	99.622	91.672	3.3440	.653	-.301 **
9	23	89.841	102.97	94.757	3.4157	.513	-.143 **
10	21	92.483	103.63	97.372	3.2088	.539	-.892 **
11	20	93.965	106.52	98.461	3.4395	.653	-.346 *
12	19	94.036	107.89	100.72	3.8240	.307	-.472 *
13	21	97.867	116.26	104.10	4.0997	1.313	2.033 **
14	10	100.17	111.75	106.92	3.6903	-.375	-.774 **

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	76.560	89.042	81.760	3.5700	.279	-.591
6	19	78.160	88.464	83.456	2.8109	.007	-.872
7	22	83.041	92.500	87.753	2.6689	-.074	-.894
8	23	81.937	95.828	88.826	3.6325	-.009	-.658
9	22	85.539	96.004	91.321	2.7300	-.064	-.609
10	19	88.657	99.633	93.786	3.6268	.135	-1.305
11	21	88.965	101.60	95.812	2.9506	-.149	-.160
12	22	94.049	103.66	98.244	2.9345	.364	-.938
13	20	91.429	111.43	101.48	4.6407	.314	.539
14	11	96.194	107.75	102.60	3.7817	-.227	-1.099





LINEAR MEASUREMENT VARIABLE 78

Condylion-Pogonion

CO-PG

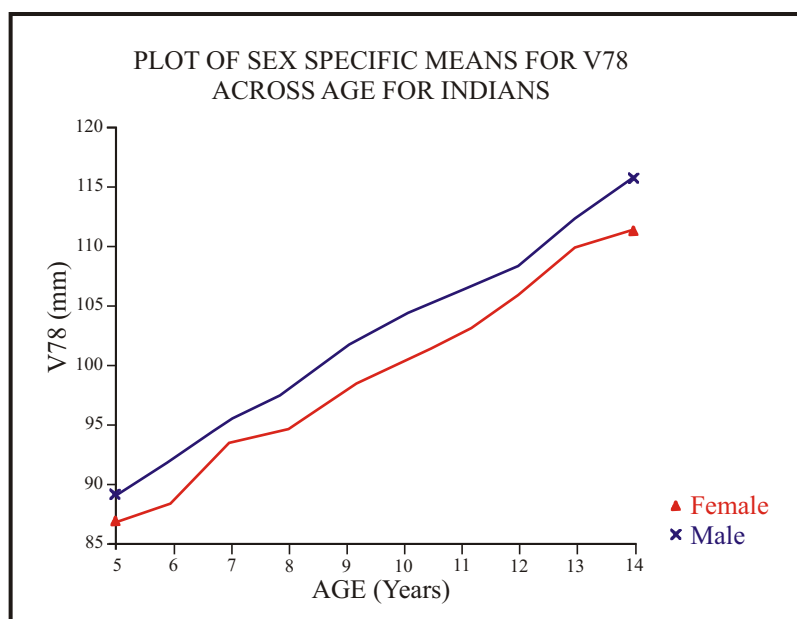
33-3

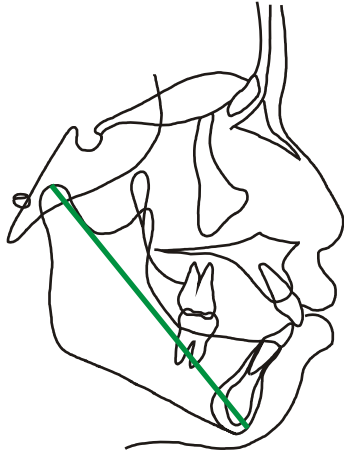
Male Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	14	84.992	93.757	88.992	2.9530	.312	-1.079
6	22	86.739	99.954	92.052	3.1669	.764	.513 **
7	20	89.239	102.71	95.245	3.6508	.635	-.473
8	23	92.973	104.72	97.664	3.3074	.632	-.595 **
9	23	95.578	108.62	101.23	3.5531	.580	-.242 **
10	21	98.101	111.64	103.95	3.7467	.418	-.807 **
11	21	101.07	113.98	105.95	4.2508	.525	-1.039 **
12	19	100.69	114.11	107.87	3.8319	.111	-.941
13	21	105.68	124.00	111.90	4.5915	1.151	1.135 *
14	10	105.96	120.90	115.22	4.3835	-.691	.035 **

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	81.575	93.312	86.853	3.6495	.197	-1.036
6	20	79.010	94.763	88.367	3.9036	-.548	.104
7	22	87.389	100.21	93.440	3.3387	-.062	-.618
8	23	85.420	101.10	94.599	4.0505	-.152	-.541
9	22	90.190	102.95	97.697	3.2147	-.256	-.209
10	19	94.304	107.37	100.20	4.0473	.172	-1.149
11	22	93.287	109.36	102.34	3.7396	-.833	1.075
12	22	100.61	112.88	105.56	3.3008	.250	-.516
13	20	99.358	120.43	109.57	5.0504	.374	.242
14	11	104.35	116.26	110.97	3.9988	-.187	-1.224





LINEAR MEASUREMENT VARIABLE 79

Condylion-Gnathion

CO-GN

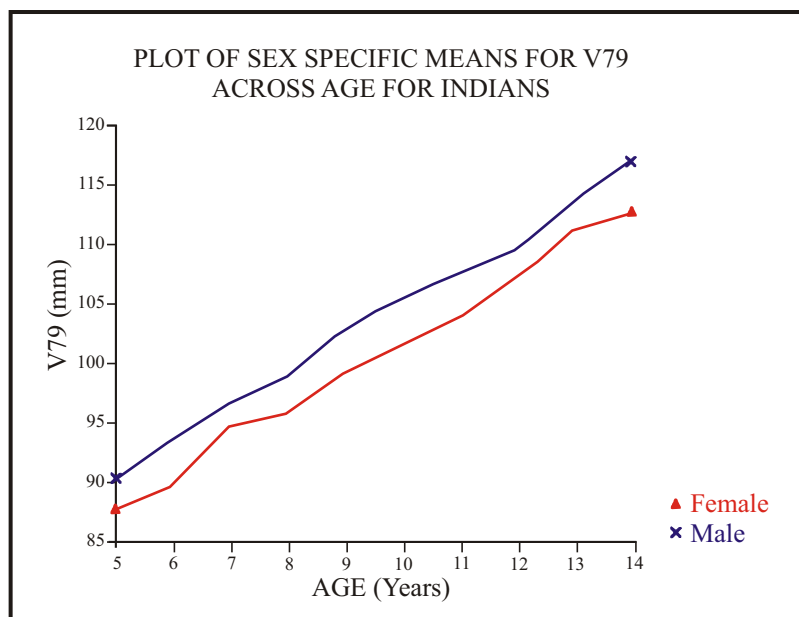
33-2

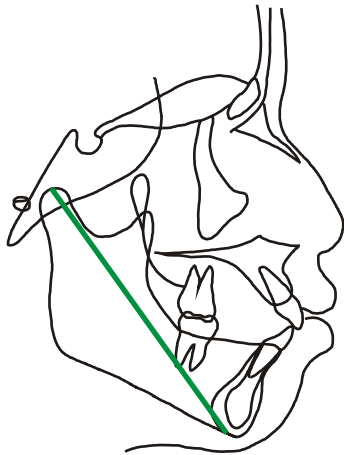
Male Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis	
5	14	86.287	94.640	90.057	2.8102	.274	-1.110	*
6	22	87.931	100.27	93.370	2.9371	.578	.254	**
7	20	90.378	103.65	96.330	3.7147	.584	-.766	
8	23	94.083	105.32	98.617	3.2984	.484	-.785	**
9	23	96.922	110.20	102.39	3.5177	.523	-.199	**
10	21	99.474	112.37	105.10	3.6438	.413	-.810	**
11	21	101.61	114.93	106.93	4.2404	.442	-1.092	**
12	19	102.04	115.84	109.15	4.0436	.038	-1.095	*
13	21	106.70	124.81	112.99	4.5528	1.217	1.260	*
14	10	107.83	121.95	116.37	4.2910	-.523	-.437	**

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis	
5	15	82.333	94.497	88.202	3.8299	.223	-.930	
6	20	80.108	95.919	89.507	3.9374	-.506	.046	
7	22	88.819	101.01	94.434	3.3131	-.011	-.734	
8	23	87.523	101.91	95.624	3.9672	-.039	-.838	
9	22	92.077	104.05	98.806	3.0522	-.151	-.431	
10	19	95.716	108.78	101.35	4.0977	.261	-1.185	
11	22	94.529	111.05	103.45	3.7091	-.612	.918	
12	22	101.97	113.29	106.74	3.2076	.200	-.789	
13	20	100.58	121.61	110.68	5.0428	.400	.292	
14	11	105.70	117.27	112.00	4.1269	-.137	-1.358	





LINEAR MEASUREMENT VARIABLE 80

Condylion-Menton

CO-ME

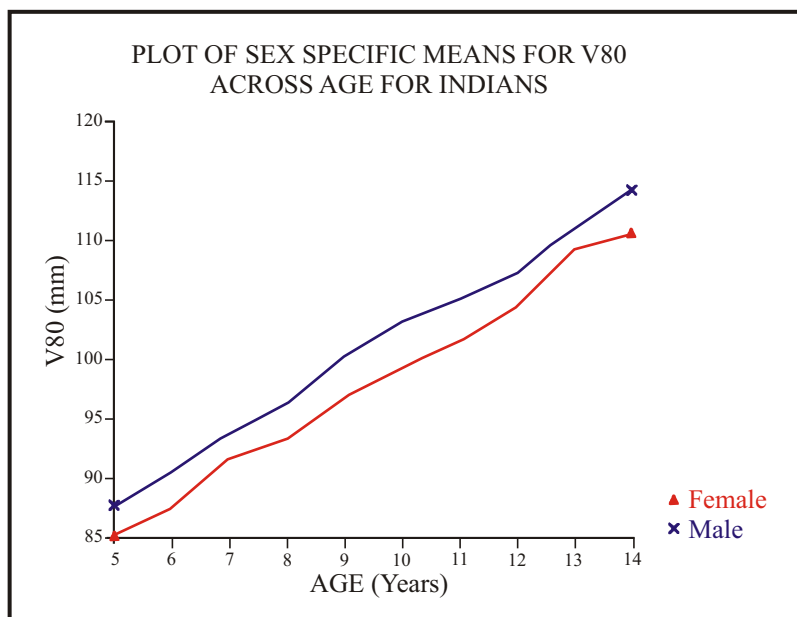
33-1

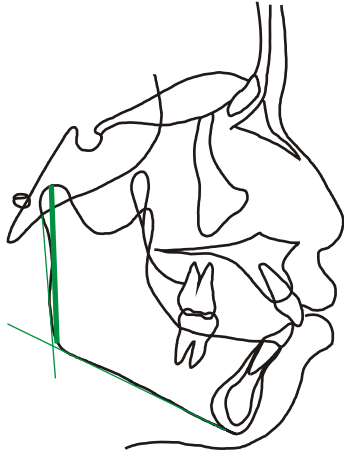
Male Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	14	83.747	92.535	87.294	3.0098	.547	-.873
6	22	84.592	98.156	90.552	3.4058	.571	-.184 **
7	20	86.987	101.22	93.432	4.0440	.485	-.929
8	23	89.807	102.13	95.954	3.5948	.266	-.994 **
9	23	94.346	108.10	99.722	3.6205	.606	-.037 **
10	21	95.351	110.52	102.44	4.1664	.284	-.790 **
11	21	98.287	112.68	104.28	4.3908	.446	-1.056 **
12	19	100.07	114.51	106.56	4.3771	.208	-1.065 *
13	21	102.67	122.18	110.25	4.8947	1.106	1.101
14	10	104.32	120.10	113.31	4.6768	-.306	-.498 *

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	78.862	91.752	85.548	3.9965	-.013	-.892
6	19	81.978	93.688	87.342	3.0772	.089	-.584
7	23	82.098	98.112	91.261	3.9385	-.412	-.362
8	23	85.178	99.895	93.045	3.9621	.111	-.755
9	22	88.749	102.90	96.382	3.3884	-.106	-.204
10	19	92.879	107.06	98.808	4.3607	.425	-1.054
11	22	91.677	108.72	101.01	3.8647	-.509	.495
12	23	94.364	111.39	103.86	4.0225	-.297	-.233
13	20	98.336	120.63	108.40	5.4235	.533	.248
14	11	103.95	115.69	109.79	4.4740	-.066	-1.495





LINEAR MEASUREMENT VARIABLE 81

Condylion-Gonion

CO-GO

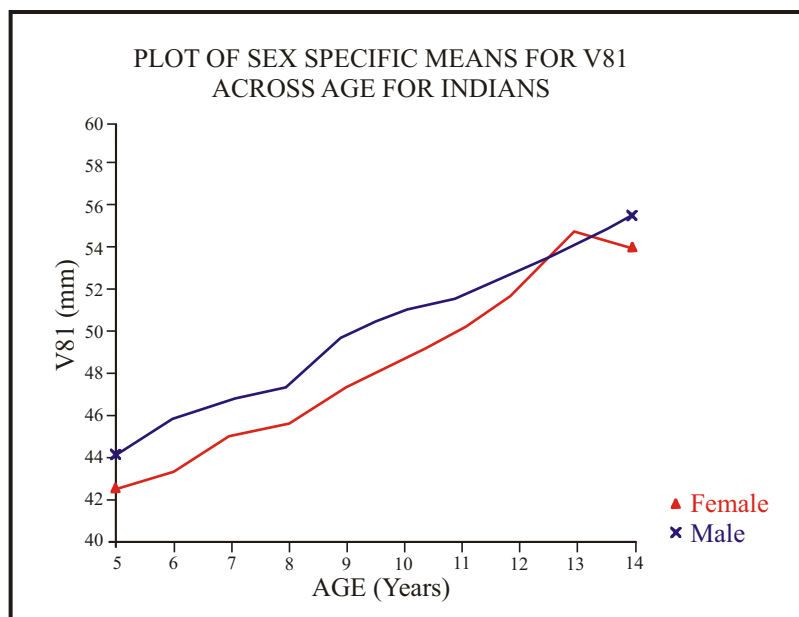
33-27

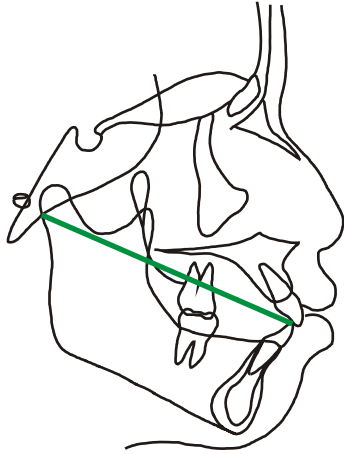
Male Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	14	38.535	47.488	44.038	2.6098	-.618	-.193
6	22	40.160	51.496	45.748	2.9099	.086	-.599 **
7	20	41.794	52.991	46.680	3.6819	.400	-1.114
8	23	42.169	53.120	47.330	3.1577	.113	-1.051 *
9	23	44.146	56.886	49.704	3.5562	.259	-.711 **
10	21	45.925	58.852	50.866	3.6769	.567	-.677 *
11	21	44.473	59.683	51.534	3.8313	.271	-.377
12	19	45.600	61.113	52.669	4.0866	.067	-.559
13	21	48.118	60.692	53.916	3.7053	.255	-.935
14	10	49.973	63.504	55.278	3.5611	.993	1.186

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	37.271	48.579	42.483	2.5545	.312	1.027
6	20	39.914	47.329	43.249	2.2368	.185	-.935
7	23	39.537	50.676	44.932	2.6923	.129	.110
8	22	41.287	51.170	45.530	2.5289	.601	-.260
9	22	42.558	51.924	47.208	2.7016	.117	-.919
10	19	44.770	55.026	48.523	3.0829	.852	-.288
11	22	42.248	57.440	49.922	3.2765	.041	.531
12	22	47.753	57.416	51.826	2.7019	.429	-.506
13	20	48.227	62.461	54.606	4.1656	.161	-.910
14	11	47.821	60.390	53.771	3.4040	.218	-.184





LINEAR MEASUREMENT VARIABLE 82

**Articulare-Lower Incisor
Incisal Edge**

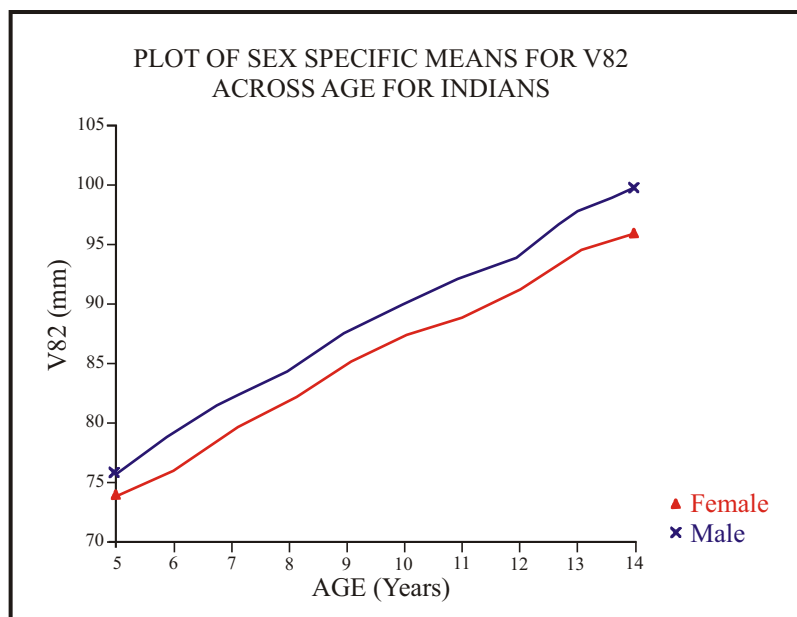
AR-LIE

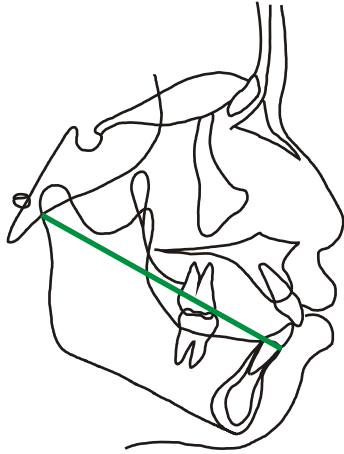
31-6

Male Indian

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis		Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	71.628	79.911	75.854	2.3883	.028	-.709		5	15	68.066	78.869	74.149	3.0981	-.117	-.736
6	22	76.104	84.630	79.426	2.3450	.406	-.553	**	6	19	72.167	82.146	76.309	2.9054	.313	-.850
7	20	78.427	88.727	82.241	2.8349	.951	.057	**	7	23	73.577	84.180	79.461	3.1223	-.072	-.955
8	22	80.627	90.564	84.489	2.4919	.480	-.225	**	8	23	77.252	86.969	82.033	3.2709	.065	-1.356
9	22	82.656	92.994	87.698	2.3074	.040	.207	**	9	22	79.703	90.577	84.947	3.2651	.155	-1.038
10	20	86.155	94.492	89.896	2.2168	.243	-.628	**	10	19	81.485	93.709	87.377	3.2071	.109	-.541
11	21	85.792	97.058	91.993	3.1293	-.117	-.558	**	11	22	80.079	93.999	88.728	3.8233	-.541	-.334
12	19	87.817	100.96	93.878	3.3163	.168	-.276	**	12	23	83.869	95.674	91.065	3.4038	-.402	-.569
13	21	91.970	103.34	97.432	3.2196	.246	-.884	**	13	20	87.948	102.18	94.057	4.1737	.504	-.706
14	10	95.469	106.61	99.473	3.5083	.566	-.274	**	14	11	89.340	101.91	95.775	4.2548	-.121	-1.303





LINEAR MEASUREMENT VARIABLE 83

Articulare -Infradentale

AR-ID

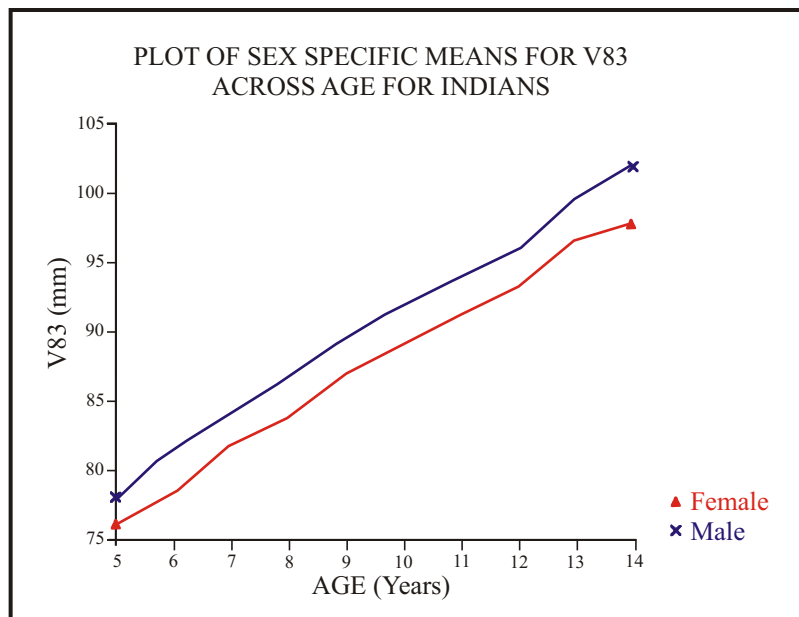
31-5

Male Indian

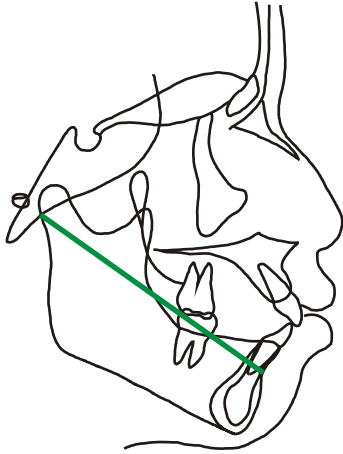
Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	15	74.179	81.961	77.861	2.4202	.420	-.739
6	22	77.009	86.397	81.445	2.3670	.067	-.538 **
7	20	79.907	89.967	84.150	2.9274	.775	-.260 **
8	23	81.266	93.992	86.423	3.2503	.484	-.178 **
9	22	85.091	93.705	89.338	2.3900	-.181	-.649 **
10	20	87.664	95.345	91.501	2.2759	.254	-.908 **
11	21	87.971	99.632	93.543	3.3250	.068	-.710 **
12	19	88.226	104.20	95.576	3.7742	.178	.052 **
13	21	93.839	106.09	99.069	3.4734	.503	-.464 **
14	10	97.228	108.62	101.41	3.3301	.899	.236 **

Female Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	15	70.098	80.476	76.157	3.0390	-.172	-.713
6	19	74.530	84.254	78.265	2.7816	.505	-.780
7	23	77.200	86.825	81.778	2.9346	.129	-1.062
8	23	78.854	89.126	83.726	3.0652	.075	-1.040
9	22	81.510	92.083	86.632	3.0450	.232	-1.146
10	19	83.715	94.315	88.875	3.1323	.225	-.790
11	21	85.804	95.104	90.891	2.8878	-.134	-.960
12	23	85.454	97.179	92.925	3.0847	-.477	-.109
13	20	89.425	105.22	96.074	3.9923	.649	.101
14	11	91.086	102.91	97.339	3.8743	-.137	-1.151



LINEAR MEASUREMENT VARIABLE 84



Articulare-B Point

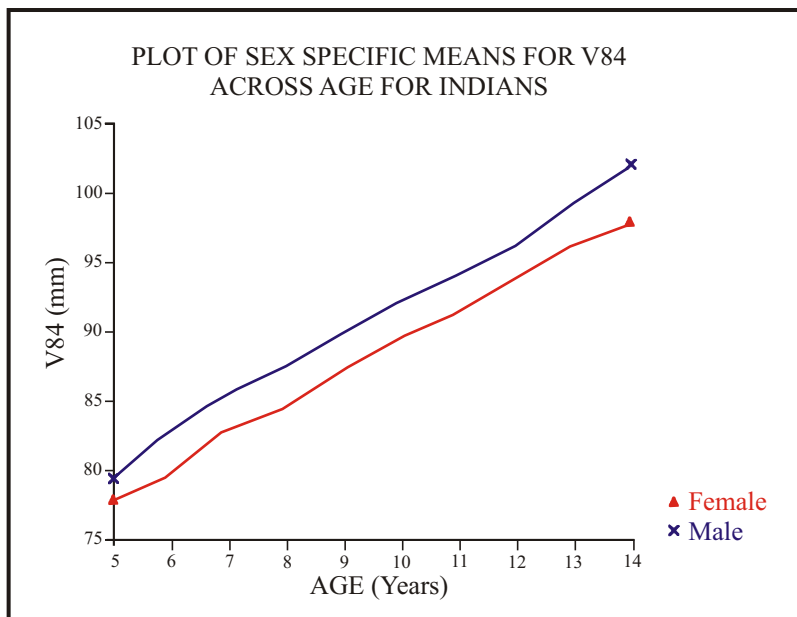
AR-B

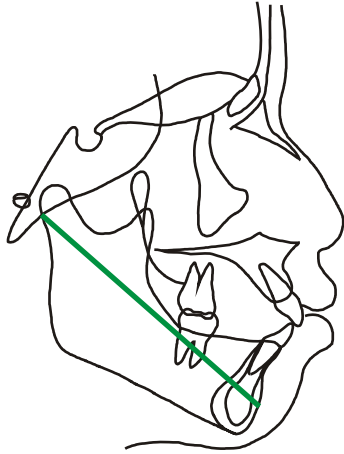
31-4

Male Indian

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis		Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	76.756	82.990	79.388	2.1063	.553	-1.194		5	15	73.184	82.405	77.927	2.7654	-.046	-.893
6	22	78.069	87.179	82.792	2.4797	-.233	-.519	**	6	19	76.254	83.933	79.722	2.6959	.269	-1.504
7	20	79.904	92.144	85.526	3.2213	.399	-.531	**	7	23	78.323	88.418	82.958	2.9240	-.006	-.855
8	23	81.720	93.911	87.464	3.4139	.124	-.637	**	8	23	79.867	90.319	84.704	2.9468	.085	-.853
9	22	85.635	94.104	89.936	2.8454	-.103	-1.263	**	9	22	82.316	91.897	87.275	2.6821	.128	-1.056
10	20	87.533	97.201	92.210	2.6736	.246	-.724	**	10	19	84.865	94.362	89.586	2.8390	.169	-.839
11	21	88.156	101.18	94.112	3.5342	.215	-.708	*	11	21	86.610	95.761	91.463	2.6435	-.055	-.965
12	19	88.032	105.10	96.153	4.1570	.232	-.027		12	22	90.029	97.653	93.997	2.3278	.108	-.906
13	21	92.612	108.62	99.293	3.7816	.664	.331	**	13	19	89.756	104.79	96.324	3.2385	.512	1.155
14	10	95.567	108.89	101.91	3.8558	.319	-.434	**	14	11	91.938	104.22	97.866	3.4813	.073	-.579





LINEAR MEASUREMENT VARIABLE 85

Articulare-Pogonion

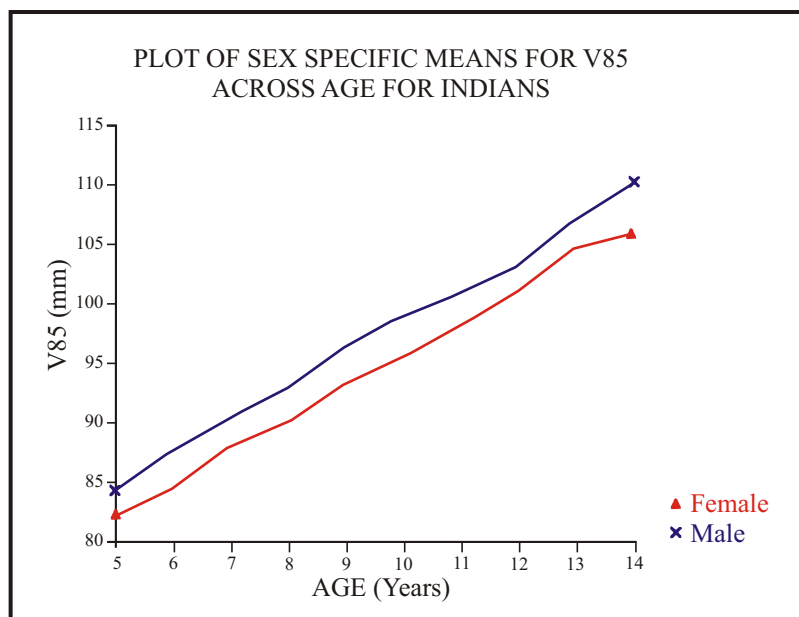
AR-PG

31-3

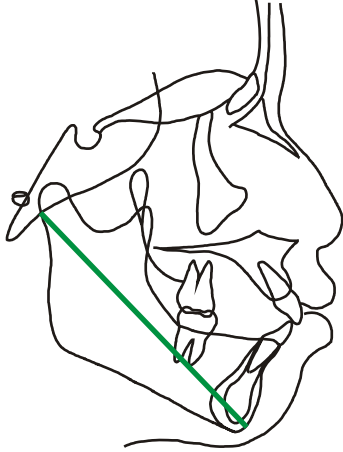
Male Indian

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis		Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	81.311	89.333	84.267	2.1869	.994	.078	*	5	15	76.828	86.500	82.258	2.8536	-.357	-.353
6	22	82.467	94.196	87.527	2.9532	.226	-.348	**	6	19	80.372	90.408	84.350	3.0838	.425	-1.051
7	20	85.412	97.318	90.122	3.3402	.708	-.180	*	7	23	81.281	94.289	87.812	3.5443	.026	-.762
8	23	86.930	99.322	92.724	3.4335	.348	-.555	**	8	23	84.166	95.868	89.799	3.2984	-.041	-.645
9	23	91.181	104.10	96.048	3.3446	.687	-.142	**	9	22	87.157	98.413	92.895	3.0554	.156	-.722
10	21	93.492	106.83	98.481	3.5079	.721	-.328	**	10	19	90.197	101.22	95.283	3.2472	.243	-.746
11	21	93.943	107.30	100.38	3.7965	.262	-.884	*	11	21	90.540	102.72	97.652	2.9461	-.397	.002
12	19	93.751	110.63	102.49	4.1959	.064	-.390		12	22	96.341	105.43	100.49	2.6263	.410	-.725
13	21	100.96	115.74	106.21	4.1869	.881	-.158		13	20	96.882	114.32	104.05	4.2468	.765	.454
14	10	104.31	117.13	109.33	4.1136	.532	-.688	**	14	11	99.367	112.33	105.30	3.7605	.126	-.615



LINEAR MEASUREMENT VARIABLE 86



Articulare-Gnathion

AR-GN

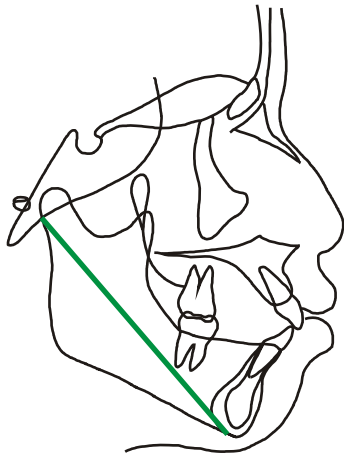
31-2

Male Indian

Female Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis		Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	15	82.092	89.601	85.044	2.1331	.637	-.306	*	5	15	77.522	88.891	83.191	3.1026	-.133	-.277
6	22	83.263	94.230	88.456	2.8723	.010	-.704	**	6	19	81.262	91.283	85.092	3.2002	.384	-1.044
7	20	85.666	98.196	90.808	3.3664	.637	-.271	*	7	23	82.543	94.798	88.433	3.4741	.092	-.858
8	23	87.599	100.16	93.300	3.4191	.355	-.592	**	8	23	84.892	96.200	90.459	3.2935	.031	-.921
9	23	91.695	104.39	96.833	3.3091	.506	-.299	**	9	22	88.677	98.914	93.622	2.9880	.218	-.806
10	21	94.389	107.81	99.231	3.4840	.712	-.123	**	10	19	91.148	102.31	96.056	3.2793	.339	-.788
11	21	94.788	108.35	100.98	3.8102	.183	-.928	*	11	21	91.738	104.02	98.372	2.9792	-.207	-.257
12	19	94.521	111.84	103.36	4.3425	.003	-.464		12	22	96.747	105.88	101.29	2.6304	.213	-.853
13	21	101.68	116.29	106.94	4.1413	.859	-.216		13	20	97.714	114.99	104.77	4.3014	.700	.321
14	10	105.15	117.75	110.12	4.0568	.529	-.744	**	14	11	100.33	112.99	105.96	3.8185	.190	-.792





LINEAR MEASUREMENT VARIABLE 87

Articulare-Menton

AR-ME

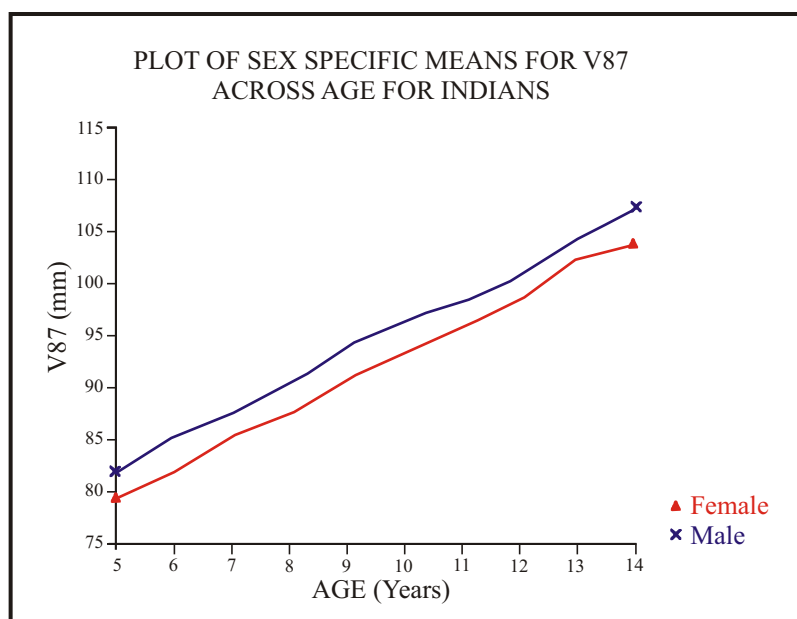
31-1

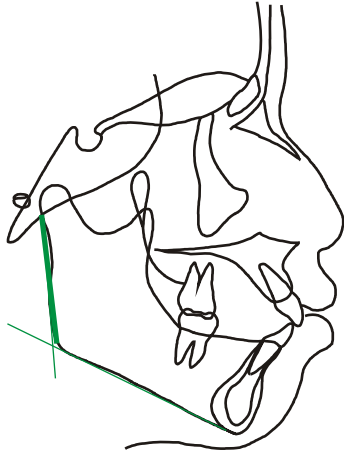
Male Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	79.245	86.479	81.997	2.3844	.676	-.704 *
6	22	79.614	91.851	85.332	3.3923	.164	-.895 **
7	20	82.564	94.822	87.597	3.6032	.585	-.632
8	23	84.505	97.949	90.332	3.6286	.334	-.664 **
9	23	88.215	101.87	93.859	3.4706	.467	-.199 **
10	21	89.923	105.76	96.261	3.9386	.544	-.158 **
11	21	92.059	105.58	98.003	3.9042	.234	-1.005 *
12	19	92.176	110.19	100.44	4.6426	.282	-.429
13	21	98.483	113.42	103.88	4.4758	.865	-.234
14	10	102.01	115.63	106.76	4.4946	.721	-.528 *

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	73.094	86.044	79.598	3.8538	-.228	-.728
6	19	78.459	88.837	82.120	3.0556	.616	-.733
7	23	80.082	91.641	85.382	3.5672	.118	-.963
8	23	81.220	93.527	87.583	3.3589	.108	-.660
9	22	85.286	97.476	90.900	3.3656	.309	-.714
10	19	87.990	100.37	93.211	3.6307	.490	-.663
11	21	89.720	101.42	95.650	3.2635	-.046	-.897
12	23	89.731	103.67	98.145	3.5528	-.369	-.281
13	20	95.180	113.59	102.18	4.7038	.785	.306
14	11	97.833	111.12	103.44	4.1748	.255	-.921





LINEAR MEASUREMENT VARIABLE 88

Articulare-Gonion

AR-GO

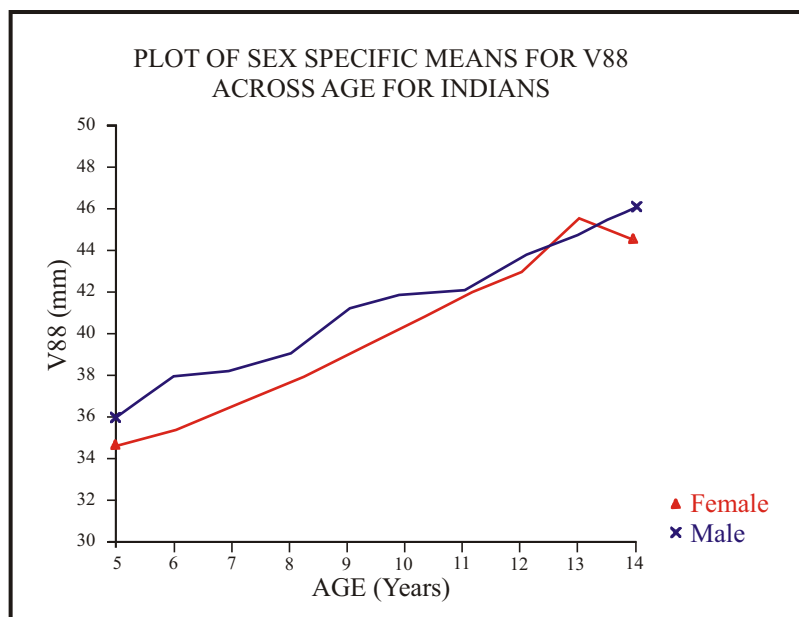
31-27

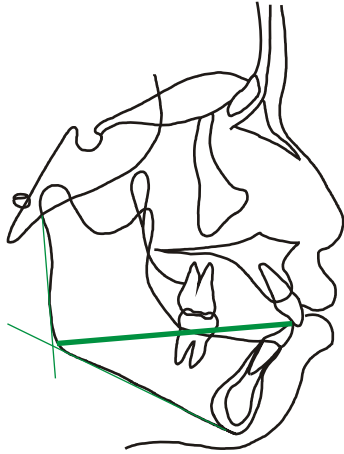
Male Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	14	31.106	39.256	35.936	2.3509	-.633	-.357
6	22	32.125	43.056	37.920	3.1945	-.048	-.907 **
7	20	33.607	44.227	38.206	3.2787	.303	-1.178
8	23	32.890	44.343	38.997	3.2514	-.018	-.942
9	23	34.955	46.233	41.103	3.3109	-.201	-1.087 *
10	21	35.633	47.264	41.886	3.4296	-.187	-1.239
11	20	36.359	47.023	41.966	3.1561	-.116	-1.199
12	19	36.443	50.863	43.570	3.7874	-.173	-.575
13	21	39.105	49.995	44.712	3.4880	-.284	-1.177
14	10	41.585	52.598	45.960	3.1881	.566	.000

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	30.177	37.648	34.608	2.1449	-.450	-.619
6	20	30.965	39.736	35.349	2.3523	-.012	-.295
7	23	31.189	42.459	36.484	2.7495	.406	-.258
8	22	33.681	42.664	37.634	2.2873	.461	.008
9	22	35.250	44.181	39.021	2.6881	.536	-.566
10	19	35.953	45.966	40.328	3.0044	.480	-.674
11	21	35.894	47.524	41.708	2.5380	.149	.484
12	23	35.724	47.333	42.847	3.1953	-.306	-.721
13	20	38.014	52.165	45.447	3.9284	.039	-.978
14	11	39.973	50.131	44.380	2.7280	.362	.221





LINEAR MEASUREMENT VARIABLE 89

**Gonion-Lower Incisor Incisal
Edge**

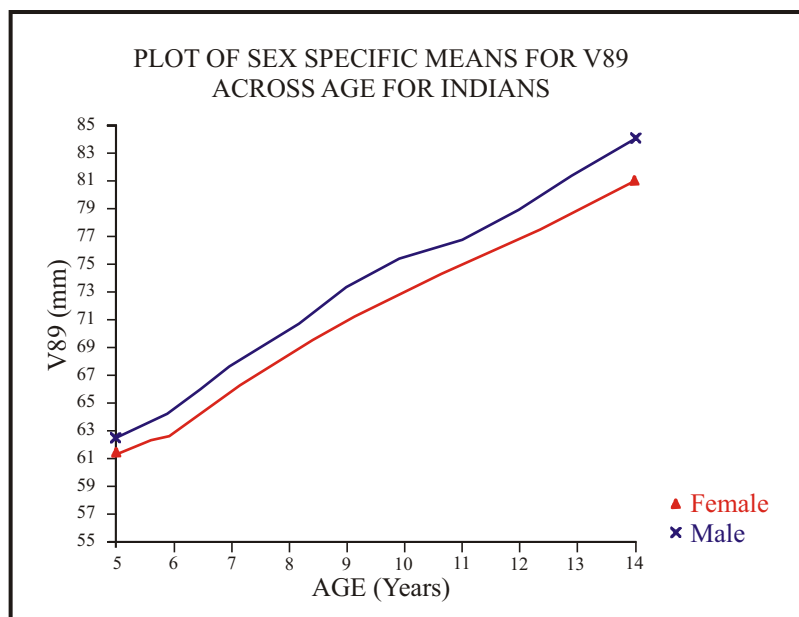
GO-LIE

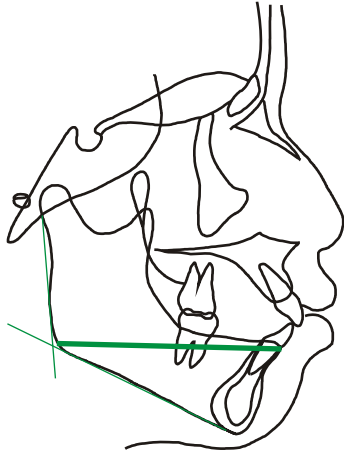
27-6

Male Indian

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis		Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	54.908	70.558	62.432	3.9398	.002	.053		5	15	55.949	66.705	61.401	2.7215	-.129	-.090
6	22	56.051	69.928	64.467	3.5168	-.435	.027	*	6	19	59.207	66.910	62.880	2.1386	-.057	-.806
7	20	61.457	73.944	67.692	3.8464	.229	-1.019		7	23	61.011	70.716	65.856	3.0049	.074	-1.307
8	23	64.089	74.696	70.052	2.9151	.095	-.730	*	8	23	62.928	74.823	68.357	2.7833	.187	-.088
9	23	67.319	79.212	73.158	2.9655	-.161	-.283	**	9	22	66.367	76.853	70.835	2.8531	.678	-.611
10	21	68.594	81.012	75.423	3.1438	-.295	-.540	**	10	19	67.896	77.886	72.776	2.7353	.110	-.965
11	19	72.394	79.634	76.498	2.3813	-.325	-1.253	**	11	22	69.914	80.189	74.776	3.0040	.109	-.985
12	19	72.575	85.107	78.612	3.3609	-.036	-.877	*	12	23	71.760	82.431	76.464	2.8994	.329	-.445
13	21	76.978	86.640	81.239	2.8720	.318	-.785	**	13	20	72.501	86.106	78.624	3.4711	.226	-.504
14	10	80.141	85.343	83.639	1.7507	-.970	-.405	**	14	11	74.178	85.953	80.579	4.1620	-.133	-1.318





LINEAR MEASUREMENT VARIABLE 90

Gonion-Infradentale

GO-ID

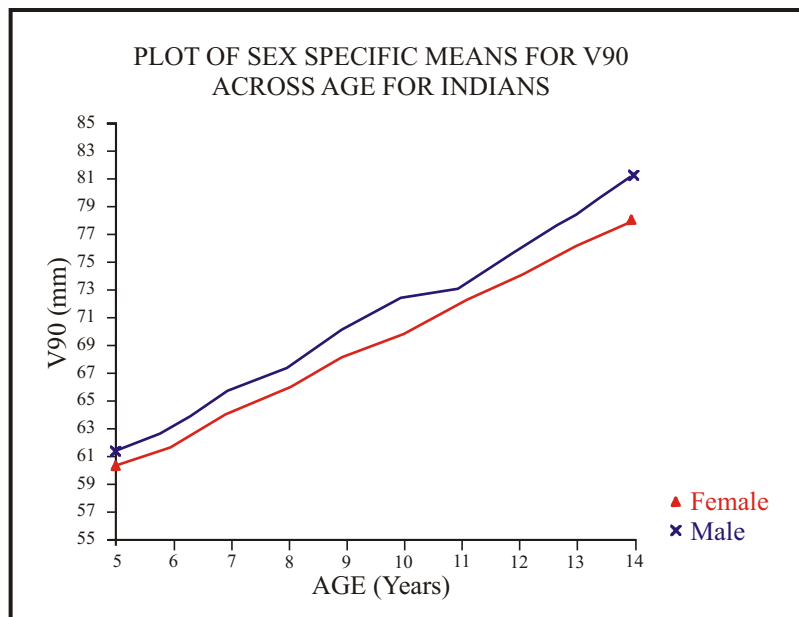
27-5

Male Indian

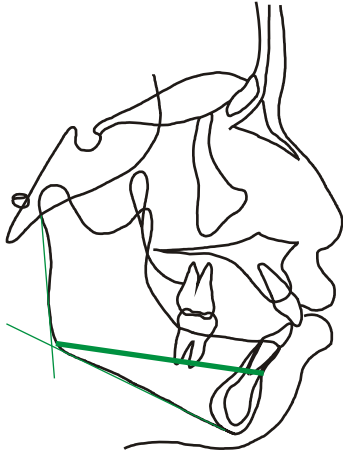
Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	55.123	69.349	61.242	3.7787	.218	.078
6	22	56.209	67.617	62.880	3.0220	-.503	-.212 *
7	20	58.998	70.644	65.541	3.3735	.125	-.742
8	23	63.264	72.225	67.189	2.6879	.401	-.942 *
9	23	65.527	74.089	69.947	2.4459	-.117	-.757 **
10	21	66.937	76.569	72.147	2.6442	-.074	-.807 **
11	20	68.202	77.354	72.794	2.6127	-.110	-.895
12	19	70.427	80.912	75.434	3.2320	-.119	-1.195 *
13	21	73.867	82.559	77.932	2.7200	.375	-1.282 **
14	10	78.294	84.071	80.688	1.8132	.368	-.744 **

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	55.769	64.026	60.265	2.3965	-.168	-.689
6	19	58.021	65.024	61.591	1.9226	-.203	-.931
7	23	59.023	68.852	64.020	2.8554	-.219	-.917
8	23	60.800	71.679	65.620	2.6116	-.014	-.135
9	22	63.678	72.818	67.958	2.5030	.362	-.706
10	19	64.949	74.507	69.546	2.7053	-.262	-.859
11	22	67.169	76.206	71.701	2.6898	-.057	-1.070
12	23	68.681	78.869	73.556	2.6721	.116	-.327
13	20	69.716	83.218	75.728	3.2280	.195	-.107
14	11	71.088	82.461	77.517	3.6983	-.359	-1.120



LINEAR MEASUREMENT VARIABLE 91



Gonion-B Point

GO-B

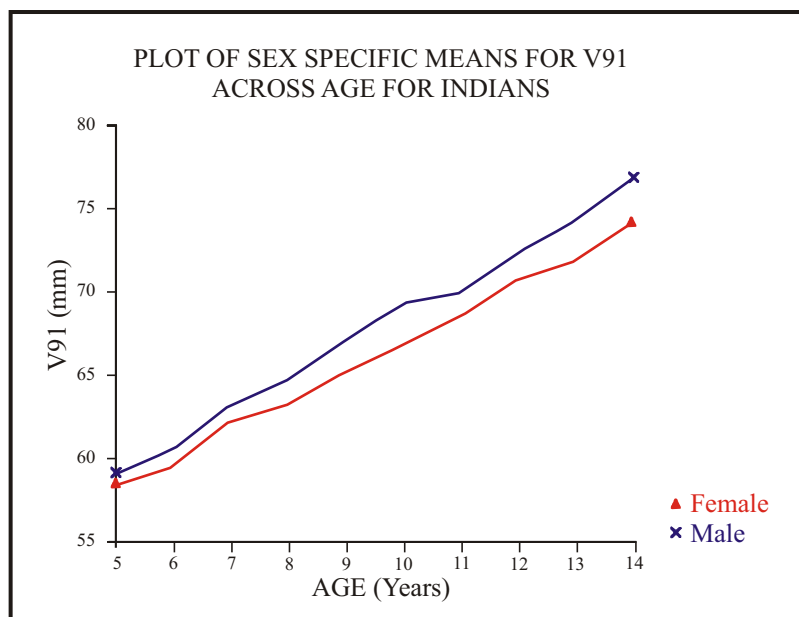
27-4

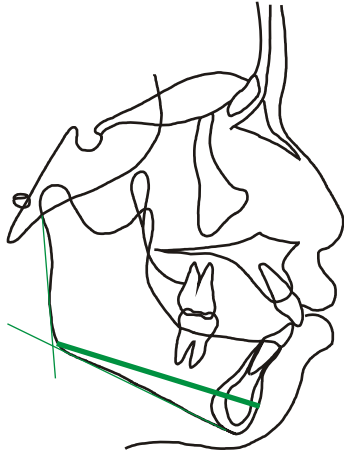
Male Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	52.602	66.587	58.734	3.4535	.340	.382
6	22	53.586	64.899	60.310	2.9164	-.497	-.350 **
7	20	56.956	68.656	62.763	3.0278	.222	-.650
8	23	61.401	68.853	64.360	2.3193	.438	-.962 *
9	23	62.033	71.392	66.668	2.5618	.033	-.865 **
10	21	63.597	73.910	68.708	2.8382	-.129	-1.032 **
11	21	64.092	74.688	69.400	2.7941	.202	-.633
12	19	66.764	76.075	71.791	3.0623	-.147	-1.180 *
13	21	69.066	78.269	73.689	3.1025	-.026	-1.374 **
14	10	70.299	81.335	76.216	2.9322	-.235	.322 **

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	53.362	62.320	58.175	2.3989	-.043	-.157
6	19	56.470	62.119	59.173	1.8573	.098	-1.341
7	23	55.909	66.676	61.860	2.7998	-.363	-.712
8	23	58.094	66.355	62.855	2.3084	-.285	-.792
9	22	61.584	68.556	64.840	2.2944	.203	-1.155
10	19	61.641	70.649	66.302	2.6902	-.329	-.971
11	22	63.812	71.016	68.007	2.3035	-.287	-1.209
12	22	66.072	74.177	70.159	2.1412	.046	-.783
13	19	66.588	75.001	71.335	2.3956	-.211	-.968
14	11	68.508	78.947	73.548	3.3392	-.012	-1.010





LINEAR MEASUREMENT VARIABLE 92

Gonion-Pogonion

GO-PG

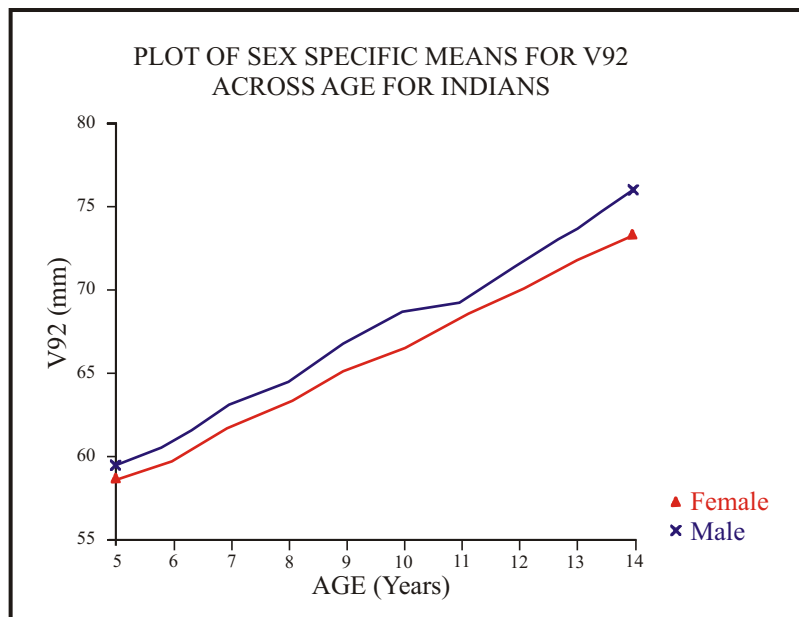
27-3

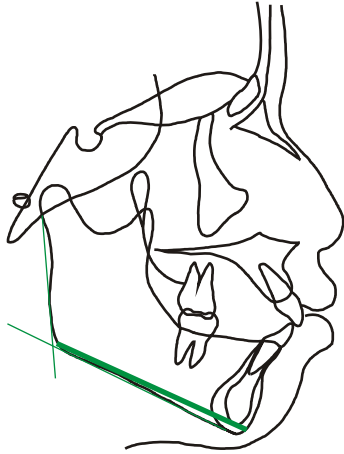
Male Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	52.292	65.314	59.397	3.3354	-.268	-.086
6	21	56.547	66.469	61.323	2.6951	-.072	-.781 **
7	20	56.996	69.650	63.622	3.2661	.120	-.598
8	23	61.674	70.428	65.732	2.6005	.154	-.880 *
9	23	63.090	73.120	68.089	2.6043	-.021	-.524 **
10	21	65.402	75.706	70.316	2.9021	-.128	-.976 **
11	21	65.510	75.884	71.330	2.6739	-.073	-.425
12	19	67.688	78.180	73.528	3.0209	-.344	-.675
13	21	69.730	81.764	75.544	3.5885	-.006	-.804 *
14	10	73.695	83.161	78.247	2.8525	.287	-.602 *

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	54.734	63.331	58.750	2.5018	.100	-.951
6	20	53.045	64.046	59.575	2.7697	-.339	-.161
7	23	57.960	66.299	62.942	2.6276	-.482	-1.226
8	23	58.554	68.734	64.126	2.4973	-.441	-.243
9	22	63.152	70.630	66.316	2.3040	.270	-.981
10	19	62.537	71.670	67.832	2.8032	-.429	-1.058
11	22	65.911	72.710	69.683	2.2802	-.270	-1.451
12	22	68.500	74.947	71.858	2.1660	-.100	-1.413
13	20	68.832	80.437	73.686	2.8916	.317	-.129
14	11	70.092	81.771	75.620	3.3679	-.075	-.432





LINEAR MEASUREMENT VARIABLE 93

Gonion-Gnathion

GO-GN

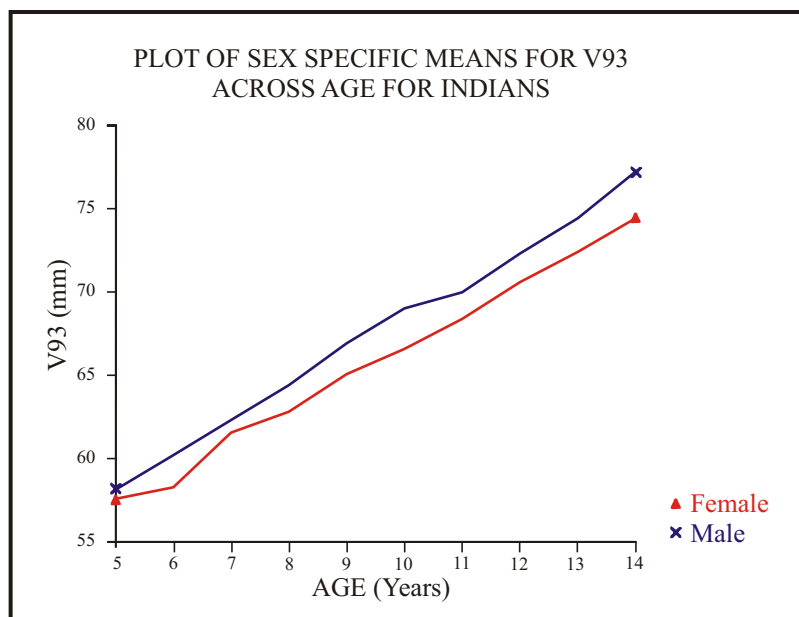
27-2

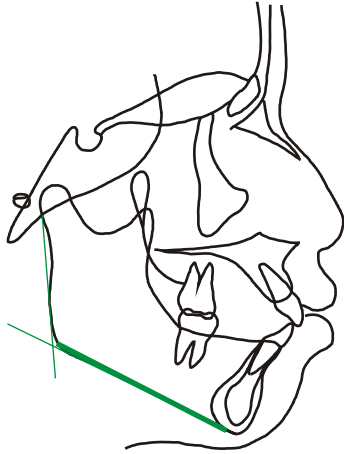
Male Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis	
5	15	51.189	64.229	58.372	3.4159	-.192	-.195	
6	21	55.785	65.523	60.411	2.6924	-.041	-.842	**
7	20	56.172	68.220	62.486	3.1990	.212	-.701	
8	23	60.995	69.335	64.544	2.4639	.339	-.833	*
9	23	62.080	71.551	67.014	2.5366	-.023	-.530	**
10	21	64.347	74.614	69.075	2.7668	.084	-.697	**
11	21	64.559	74.565	70.027	2.6295	.127	-.374	
12	19	66.913	77.359	72.313	3.0759	-.222	-.752	
13	21	68.618	81.115	74.394	3.5467	.149	-.635	**
14	10	72.862	81.932	77.144	2.6428	.376	-.367	**

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis	
5	15	53.833	63.290	57.832	2.6895	.300	-.713	
6	20	51.937	63.605	58.514	2.9413	-.165	-.262	
7	23	56.971	65.601	61.743	2.5975	-.423	-1.289	
8	23	57.867	68.123	62.976	2.5757	-.173	-.428	
9	22	61.920	69.369	65.194	2.2953	.242	-.936	
10	19	61.355	71.095	66.682	2.8729	-.283	-1.016	
11	22	64.547	71.868	68.454	2.2658	-.207	-1.410	
12	22	67.695	74.109	70.624	2.0654	.020	-1.412	
13	20	67.645	78.977	72.408	2.8157	.313	-.148	
14	11	69.348	80.811	74.394	3.3704	.086	-.383	





LINEAR MEASUREMENT VARIABLE 94

Gonion-Menton

GO-ME

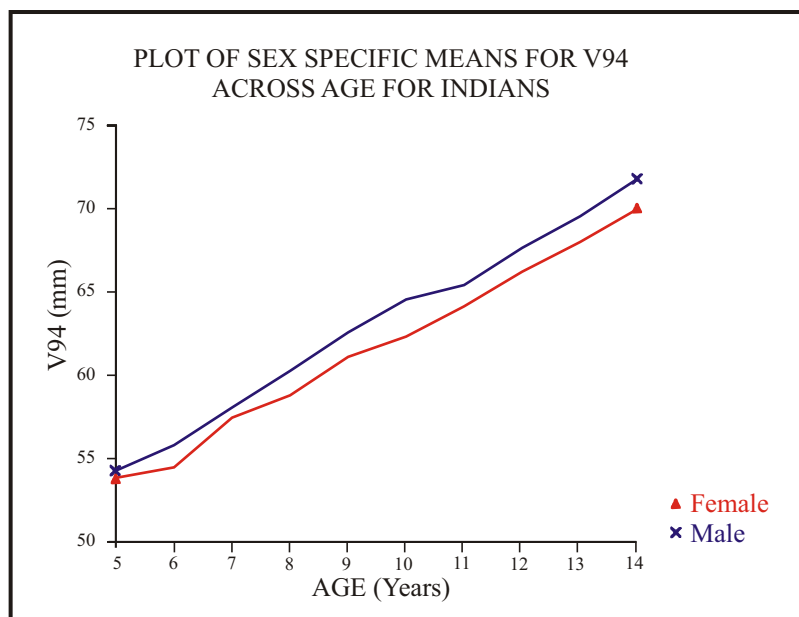
27-1

Male Indian

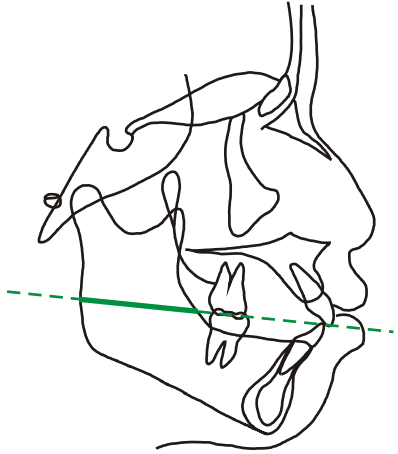
Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	46.339	60.912	54.207	3.8295	-.128	-.357
6	22	48.043	62.840	55.789	3.5893	-.043	-.244
7	20	51.551	66.446	58.128	3.6266	.411	-.263
8	23	55.840	66.952	60.405	3.0776	.389	-.619
9	23	57.537	68.358	62.797	2.7956	.223	-.278 *
10	21	60.403	71.468	64.845	3.2600	.437	-.666 *
11	21	58.762	72.043	65.742	3.0108	.118	.462
12	19	62.830	74.378	68.052	3.4131	.244	-.761
13	21	63.913	78.664	70.017	3.9915	.424	-.212
14	10	68.583	77.343	72.373	2.9508	.640	-.572

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	48.644	59.271	53.758	2.9606	-.015	-.823
6	20	47.793	59.139	54.409	3.0057	-.118	-.542
7	23	53.138	61.508	57.498	2.8068	-.212	-1.438
8	23	53.207	63.774	58.886	2.7145	-.391	-.171
9	22	56.263	67.123	61.276	2.4881	.149	-.014
10	19	57.015	67.718	62.538	3.1202	-.228	-1.157
11	22	59.733	68.745	64.419	2.6002	-.108	-1.057
12	22	63.393	70.499	66.571	2.4051	.117	-1.379
13	20	63.346	75.323	68.420	3.1809	.311	-.499
14	11	65.197	77.721	70.495	3.6714	.334	-.460



LINEAR MEASUREMENT VARIABLE 95



**Anterior Ramus Border-
Posterior Ramus Border**

AB-PB

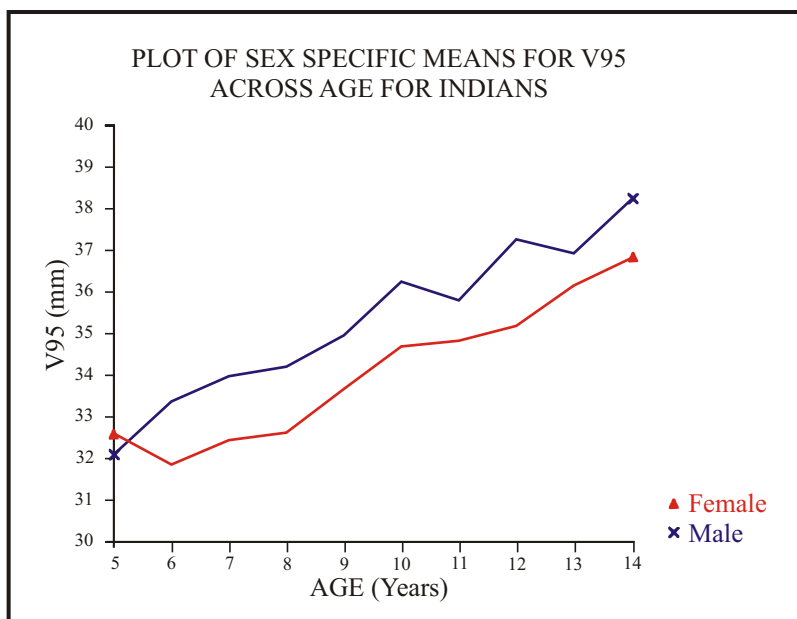
52-51

Male Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	14	29.505	34.855	32.027	1.6741	.136	-1.074
6	22	29.619	36.182	33.371	1.7511	-.174	-.594 **
7	20	29.587	38.888	34.013	2.4499	.118	-.538
8	23	29.998	38.990	34.255	2.2659	.236	-.542 **
9	23	31.763	38.422	35.051	1.7868	.255	-.768 **
10	21	30.817	40.648	36.416	2.3484	-.377	.033 *
11	21	32.990	39.884	35.941	1.8814	-.019	-.822
12	19	32.937	41.680	37.491	2.6360	-.122	-1.254 **
13	21	33.859	40.863	37.136	1.7426	.515	-.256
14	10	33.004	42.897	38.501	3.2316	-.278	-.904

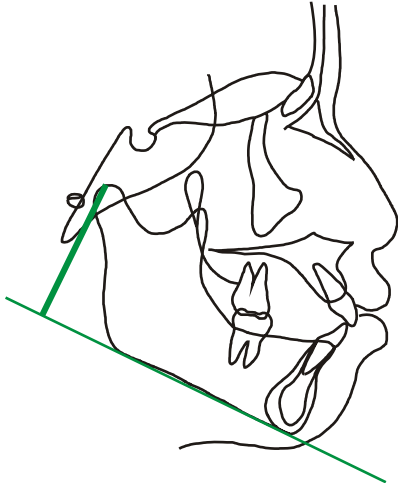
Female Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	15	29.565	36.442	32.557	1.8281	.368	-.433
6	20	29.363	35.855	31.768	1.8767	.680	-.523
7	23	27.923	37.604	32.388	2.3670	.475	.274
8	23	27.654	36.361	32.579	2.0963	-.226	.009
9	22	30.597	36.794	33.688	1.8881	-.094	-1.032
10	19	30.809	38.654	34.769	2.3562	-.012	-1.087
11	22	32.398	39.276	34.914	2.0261	.501	-.841
12	23	31.963	40.211	35.292	2.2349	.613	-.455
13	20	31.880	42.783	36.317	2.6786	.381	.006
14	11	32.760	41.782	37.014	2.4601	-.043	.122



LINEAR MEASUREMENT

VARIABLE 96



Condylion Perpendicular to Mandibular Plane

CO₁GOI-ME

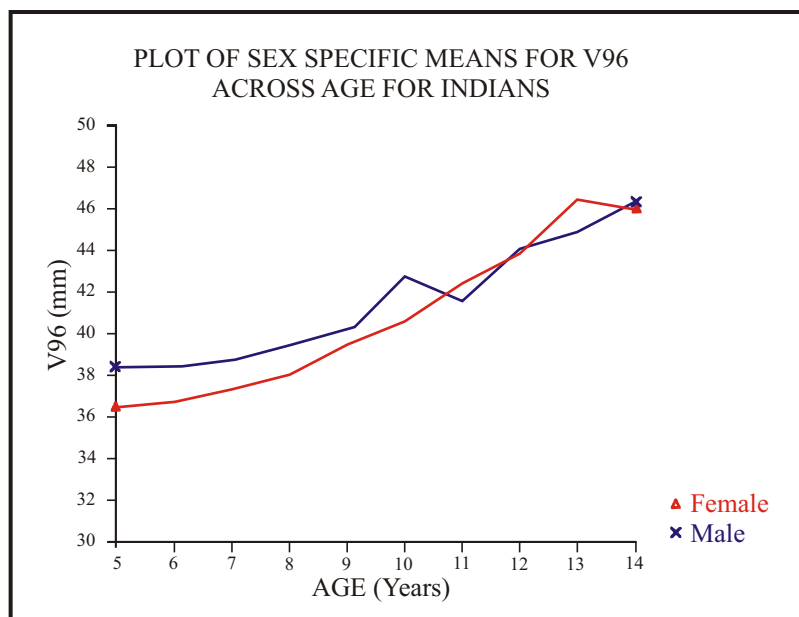
33₁28-1

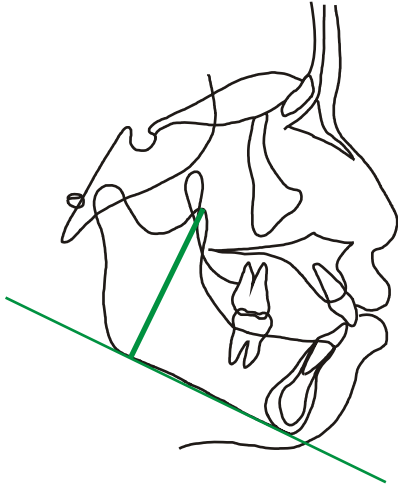
Male Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	30.550	48.781	38.506	4.8883	.668	-.099
6	22	34.155	48.443	39.275	4.0489	.988	.122
7	20	33.508	53.818	40.304	5.4451	.982	.072
8	23	34.927	51.615	40.986	4.2226	.749	.091
9	22	36.354	51.147	42.779	4.5659	.426	-.845
10	21	37.063	57.970	44.903	5.5604	.740	-.092
11	20	33.644	51.438	43.653	4.5862	-.274	-.551
12	19	36.823	56.661	46.305	5.5930	.308	-.716
13	21	40.451	54.834	47.163	4.0879	.155	-.951
14	10	41.761	58.386	48.691	4.9026	.536	-.340

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	32.221	39.845	36.545	2.0522	-.501	-.436
6	20	33.585	44.502	37.715	3.0686	.787	-.518
7	23	32.510	45.840	39.023	2.9596	-.014	.205
8	22	36.030	43.928	39.915	2.3743	.098	-1.126
9	22	36.752	47.447	41.440	2.8623	.306	-.702
10	19	37.125	49.184	42.620	3.3292	.142	-.698
11	22	38.767	52.887	44.551	3.7019	.350	-.468
12	23	40.077	51.825	46.063	3.0825	-.018	-.643
13	20	41.857	55.753	48.812	4.6811	-.043	-1.290
14	11	41.576	56.843	48.307	3.8606	.527	.787





LINEAR MEASUREMENT VARIABLE 97

**Coronoid Process perpendicular
to Mandibular Plane**

CP_⊥GOI-ME

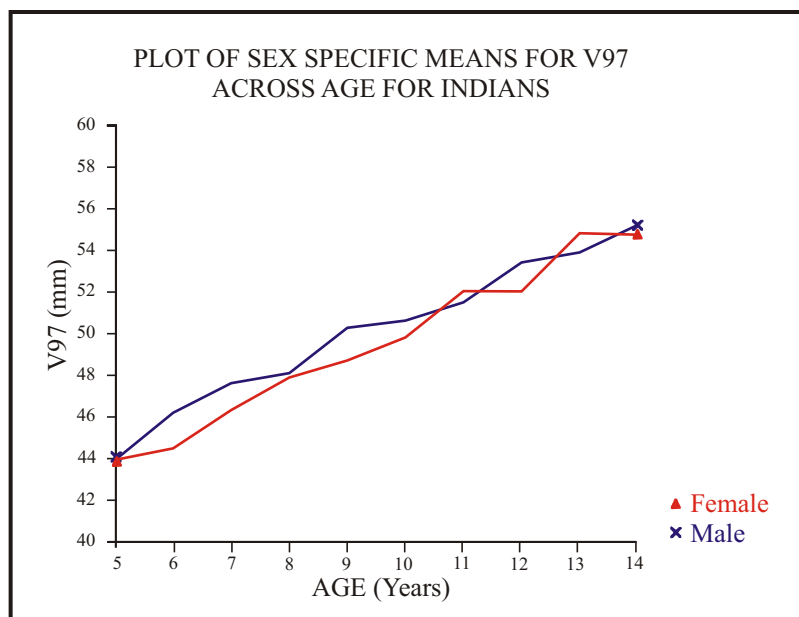
44_⊥28-1

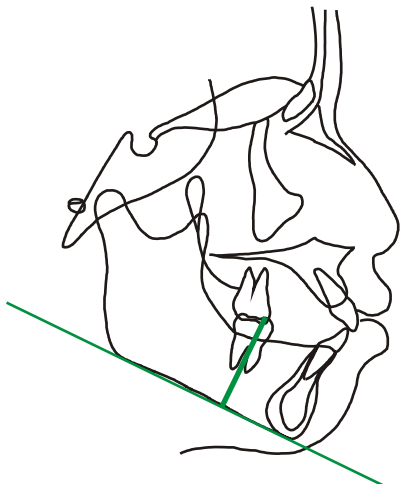
Male Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	38.873	48.327	44.490	2.6443	-.436	-.343
6	22	42.789	52.440	46.871	2.7054	.478	-.683 *
7	20	42.983	57.173	48.360	3.5273	.847	.253
8	23	44.535	53.934	48.864	2.8066	.362	-.470
9	23	44.439	59.229	51.145	3.2721	.634	.806
10	21	46.610	57.101	51.507	2.9231	.351	-.643
11	21	47.106	60.783	52.427	3.1119	.813	.921
12	19	47.357	60.982	54.432	3.4211	.284	-.041
13	21	48.932	60.319	54.937	2.9393	-.202	-.286
14	10	51.842	61.291	56.319	3.0370	.038	-1.023

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	40.468	49.458	44.500	2.4204	-.025	-.315
6	20	40.907	50.200	45.080	2.7010	-.025	-1.193
7	23	41.448	51.656	47.007	3.1414	-.212	-1.182
8	23	44.840	53.768	48.643	2.5738	.287	-.549
9	22	46.366	54.650	49.502	2.4522	.487	-.959
10	19	47.387	55.111	50.660	2.5289	.418	-.905
11	22	49.520	58.662	52.990	2.8002	.718	-.605
12	23	48.992	58.447	52.977	2.5909	.175	-.612
13	20	49.165	62.180	55.903	3.6810	.046	-.845
14	11	49.400	60.869	55.829	3.3070	-.570	-.277





LINEAR MEASUREMENT VARIABLE 98

**Lower Molar Mesial Cusp Tip
perpendicular to Mandibular
Plane**

LMT₁GOI-ME

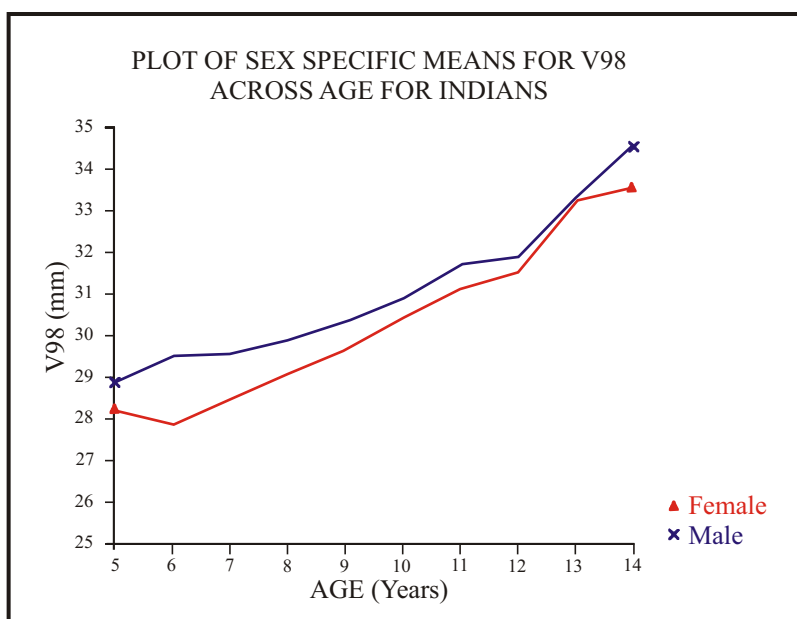
18₁28-1

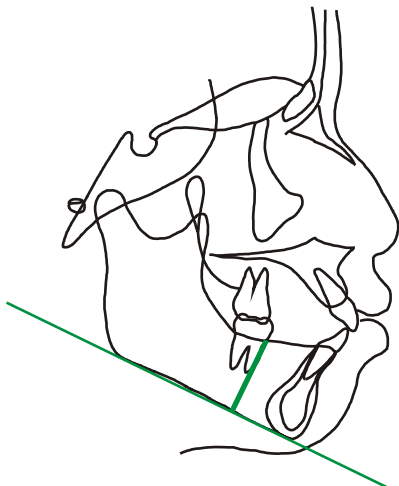
Male Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	24.788	31.645	28.984	1.6822	-.499	1.006
6	22	26.597	31.984	29.525	1.4827	-.043	-.925 **
7	20	26.452	32.339	29.633	1.5402	-.038	-.452
8	23	27.216	33.667	29.954	1.7155	.480	-.274
9	23	26.801	33.772	30.415	1.7322	-.111	-.404
10	21	27.558	34.047	30.984	1.5872	.026	-.230
11	21	28.618	36.229	31.749	1.6706	.622	.931
12	19	28.296	35.795	31.940	1.7519	.005	.036
13	21	29.582	36.389	33.178	1.5671	.102	.275
14	10	30.998	37.821	34.480	1.7381	-.090	.719

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	24.239	30.455	28.181	1.5977	-.628	.635
6	20	24.995	30.807	27.931	1.6352	-.151	-1.062
7	23	25.224	33.666	28.550	2.2392	.616	-.211
8	23	26.569	31.732	29.074	1.5918	.045	-1.071
9	22	25.900	33.830	29.756	2.0053	-.099	-.673
10	19	26.350	34.010	30.448	2.1484	.068	-.833
11	22	27.341	34.125	31.081	2.0791	-.203	-1.131
12	23	27.968	36.494	31.560	2.1002	.378	-.548
13	20	27.875	37.566	33.213	2.3743	-.199	-.177
14	11	30.115	38.396	33.442	2.7016	.660	-.773





LINEAR MEASUREMENT VARIABLE 99

Lower Molar Mesial Cemento-Enamel Junction perpendicular to Mandibular Plane

LMJ⊥GOI-ME

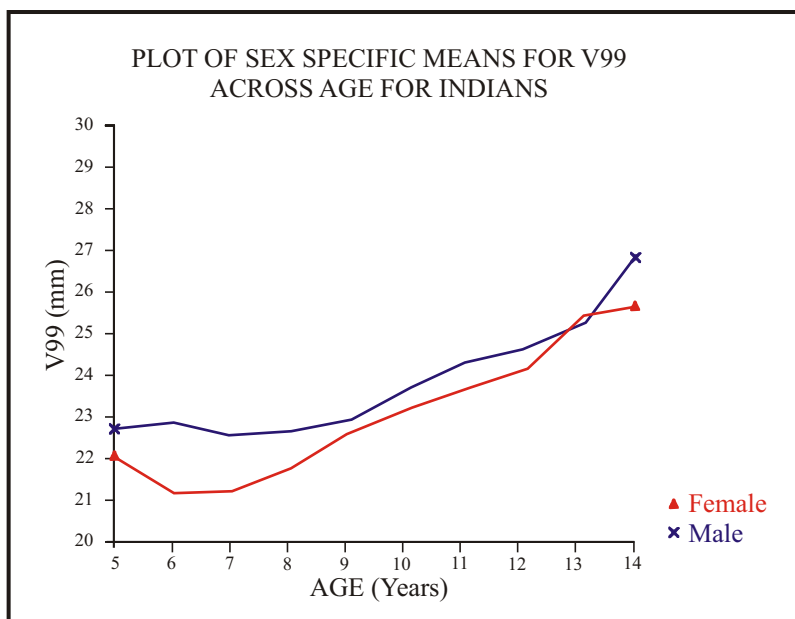
17⊥28-1

Male Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	18.374	25.512	22.784	1.7651	-.773	.697
6	22	20.143	26.259	22.940	1.6835	-.024	-.684
7	20	18.081	25.746	22.615	1.8407	-.428	.271 *
8	23	19.897	25.723	22.720	1.4670	-.137	-.305
9	23	19.109	25.596	22.991	1.9302	-.413	-.716
10	21	20.468	26.236	23.737	1.7029	-.400	-.644
11	21	21.420	27.591	24.481	1.6722	-.001	-.533 **
12	19	21.090	27.457	24.740	1.6941	-.239	-.517
13	21	22.185	30.406	25.542	1.8954	.616	.496
14	10	23.155	29.827	27.194	1.7956	-.910	.839

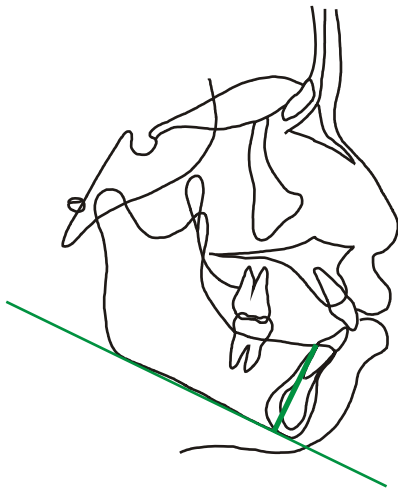
Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	17.839	24.516	22.079	1.7034	-.870	.639
6	20	18.201	25.095	21.176	2.1057	.256	-1.214
7	22	18.224	25.843	21.236	2.1085	.536	-.026
8	23	18.151	26.736	21.741	2.0094	.261	.188
9	22	19.533	26.002	22.666	1.9728	-.155	-1.103
10	19	20.162	26.536	23.260	1.9039	.334	-.905
11	22	19.760	27.556	23.724	2.1725	-.181	-.926
12	22	20.132	27.100	24.269	1.9683	-.448	-.640
13	20	20.720	30.034	25.625	2.3230	-.195	-.413
14	11	22.184	31.061	25.874	2.7941	.491	-.823



LINEAR MEASUREMENT

VARIABLE 100



**Lower Incisor Lingual Bony
Contact Point perpendicular
to Mandibular Plane**

LIB⊥GOI-ME

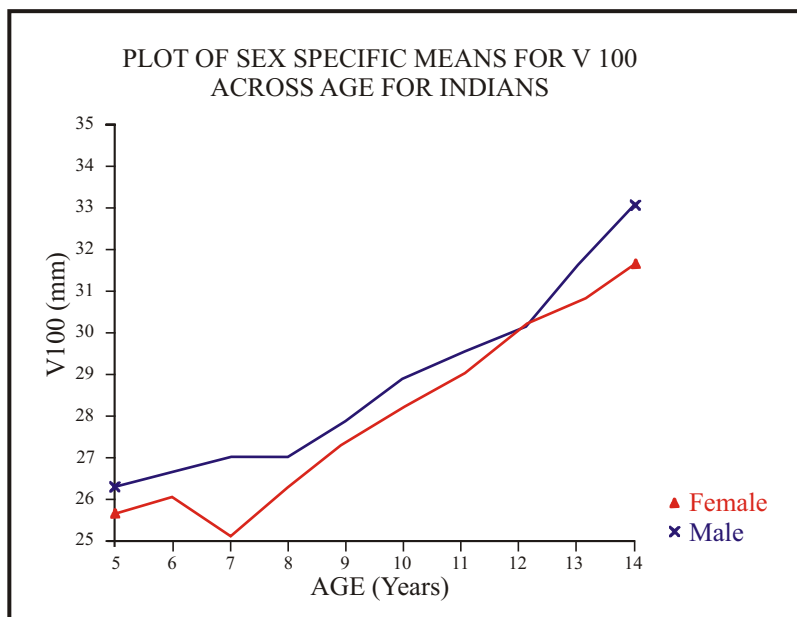
14⊥28-1

Male Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	24.287	29.030	26.334	1.3621	.596	-.434
6	22	23.191	30.356	26.697	1.7951	-.032	-.528
7	20	22.711	32.207	27.058	2.1247	.325	.388 **
8	23	23.249	30.871	27.082	2.0544	.383	-.706
9	23	23.545	32.215	28.033	2.0433	.191	-.019
10	21	23.749	33.323	29.049	2.1867	-.260	.279
11	21	24.850	32.807	29.664	2.0107	-.337	-.046
12	19	25.447	35.514	30.337	2.1589	.385	1.122
13	21	27.255	36.950	32.035	2.2142	.076	.018
14	10	31.607	36.710	33.590	1.6759	.676	-.770 *

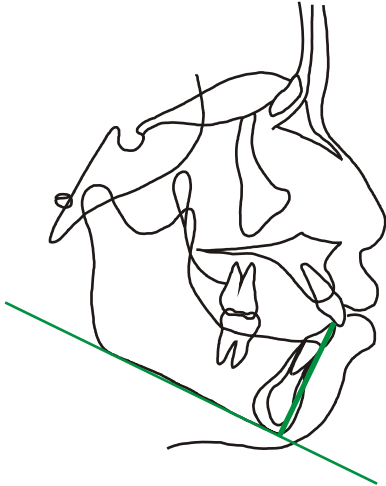
Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	23.575	28.356	25.665	1.2229	.441	-.179
6	20	23.234	28.739	26.063	1.6291	-.405	-.960
7	23	21.263	28.801	25.102	2.2488	-.160	-1.050
8	22	22.483	29.317	26.329	1.6604	-.237	-.184
9	22	23.300	31.374	27.479	2.1628	-.024	-.599
10	19	24.553	32.892	28.321	2.0616	.046	-.285
11	22	25.368	34.017	29.178	2.4170	.109	-.659
12	23	25.992	35.583	30.314	2.2728	.201	-.138
13	19	26.242	34.609	30.945	2.2613	-.358	-.280
14	11	28.174	38.243	31.982	2.9724	.686	-.021



LINEAR MEASUREMENT

VARIABLE 101



**Lower Incisor Incisal Edge
perpendicular to Mandibular
Plane**

LIE_⊥GOI-ME

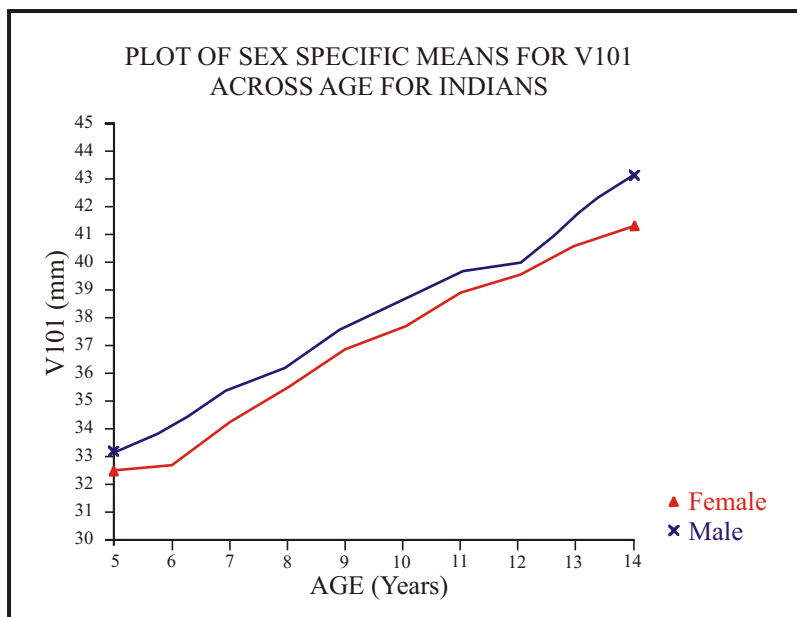
6_⊥28-1

Male Indian

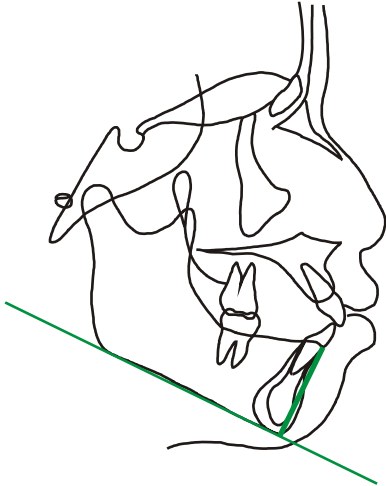
Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	29.769	36.440	33.182	1.6346	.188	.288
6	22	31.526	37.240	34.180	1.4873	.244	-.512 **
7	20	33.027	38.919	35.683	1.8109	.368	-1.090
8	23	34.006	39.779	36.514	1.6380	.337	-.334
9	23	34.368	42.550	37.939	2.1661	.297	-.356
10	21	34.927	43.456	39.026	2.3099	-.012	-.657
11	21	36.059	44.118	40.054	2.1243	-.109	-.509 *
12	19	36.889	45.254	40.411	2.0494	.326	.086
13	21	39.242	46.862	42.333	2.0896	.336	-.597 *
14	10	41.161	47.198	43.866	1.9589	.316	-1.069 **

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	30.609	35.360	32.571	1.5068	.629	-.869
6	19	29.794	35.743	32.759	1.5207	-.022	-.551
7	23	30.046	37.880	34.444	2.0254	-.362	-.402
8	23	30.911	39.259	35.617	1.9724	-.430	.150
9	22	32.913	41.487	37.161	2.2321	-.048	-.648
10	18	34.533	40.757	37.954	1.9156	-.400	-.951
11	22	35.194	44.065	39.286	2.3891	.033	-.597
12	23	36.283	45.454	40.059	2.1819	.422	.161
13	19	36.562	45.344	40.995	2.1853	-.233	-.075
14	11	38.223	47.892	41.809	2.7961	.767	.135



LINEAR MEASUREMENT VARIABLE 102



**Infradentale perpendicular to
Mandibular Plane**

ID⊥GOI-ME

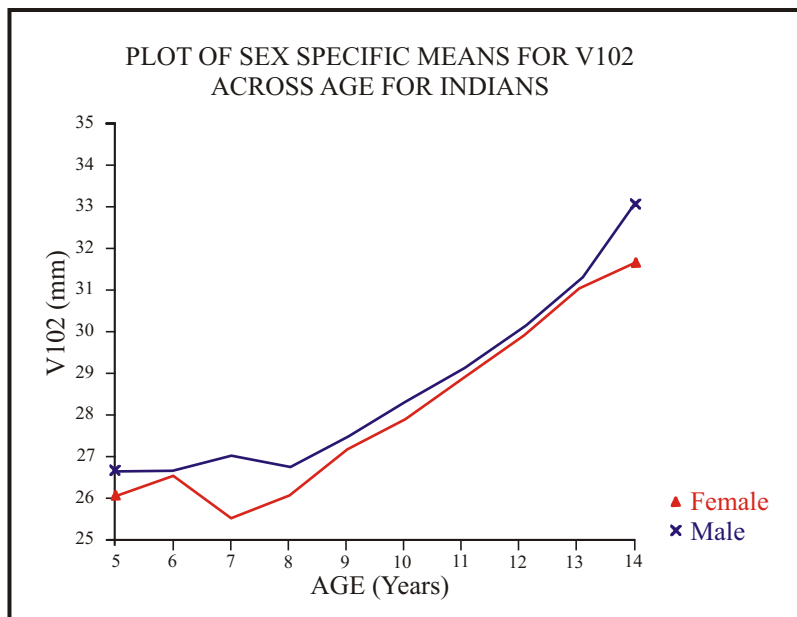
5⊥28-1

Male Indian

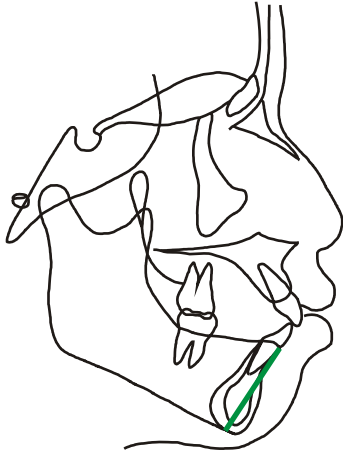
Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	15	24.296	30.703	26.751	1.7247	.684	-.004
6	22	23.022	30.673	26.813	1.8998	-.150	-.384
7	20	22.348	32.022	27.113	2.2651	.105	-.158
8	23	23.988	31.366	26.865	2.0485	.751	-.226
9	23	24.082	31.570	27.622	1.9011	.143	-.466
10	21	23.957	32.814	28.493	2.3566	.007	-.558
11	21	25.152	34.292	29.348	2.0982	.286	.172
12	19	25.724	34.655	29.985	2.2139	.208	-.262
13	21	27.632	35.887	31.629	2.0508	.276	-.529
14	10	30.736	37.295	33.493	2.2425	.539	-1.161

Female Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	15	23.288	28.809	26.141	1.4255	-.061	-.348
6	19	23.972	28.661	26.641	1.4795	-.507	-.884
7	23	20.931	30.713	25.583	2.4291	-.155	-.305
8	23	21.852	28.991	26.145	1.8181	-.775	.290
9	22	24.086	30.484	27.334	1.7625	-.354	-.969
10	19	24.669	32.360	28.077	2.0473	.014	-.639
11	22	25.419	34.037	29.132	2.3071	-.002	-.650
12	23	25.722	34.804	30.115	2.2486	.023	-.350
13	20	26.880	37.181	31.380	2.5531	.216	-.128
14	11	28.548	37.658	31.963	2.6403	.640	.040



LINEAR MEASUREMENT VARIABLE 103



Infradentale-Menton

ID-ME

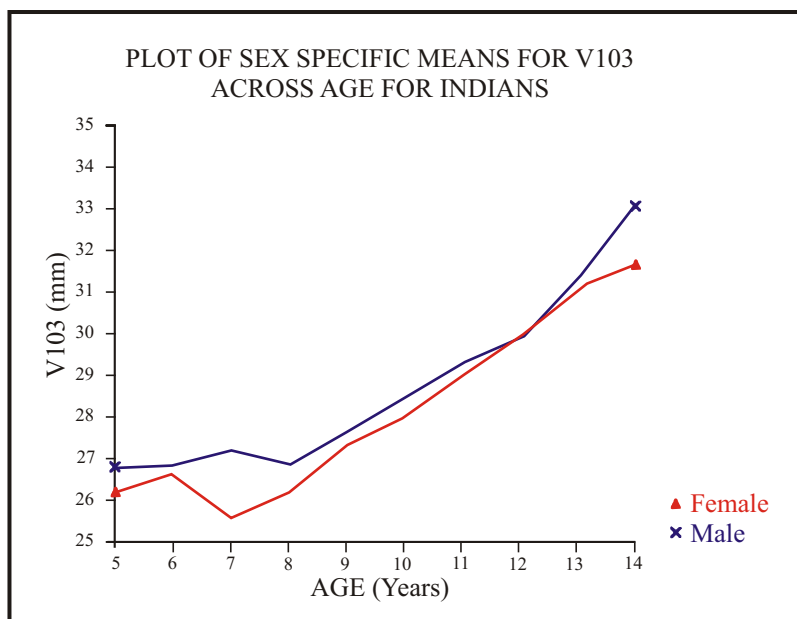
5-1

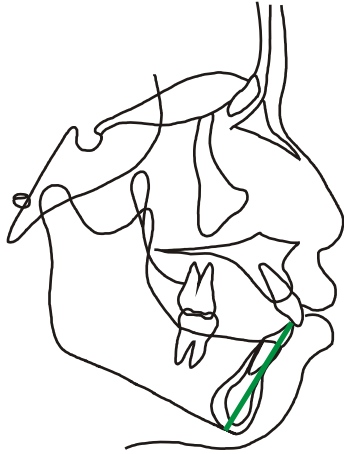
Male Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	15	24.375	30.766	26.868	1.7130	.657	-.036
6	22	23.202	30.732	26.944	1.8831	-.209	-.339
7	20	22.616	32.126	27.305	2.2215	.042	-.134 *
8	23	24.071	31.374	26.995	2.0013	.802	-.181
9	23	24.102	31.588	27.788	1.8647	.097	-.434
10	21	23.962	32.861	28.651	2.3464	-.083	-.473
11	21	25.184	34.352	29.501	2.0661	.243	.309
12	19	25.760	34.707	30.145	2.1951	.156	-.132
13	21	27.647	36.324	31.802	2.0857	.252	-.332
14	10	30.774	37.327	33.673	2.1584	.475	-1.099 *

Female Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	15	23.313	28.810	26.266	1.3927	-.156	-.105
6	19	24.165	28.882	26.730	1.4866	-.451	-.886
7	23	21.096	30.794	25.686	2.4031	-.154	-.284
8	23	22.115	29.099	26.283	1.8318	-.707	.199
9	22	24.086	30.620	27.451	1.7635	-.319	-.886
10	19	24.950	32.551	28.184	2.0316	.078	-.551
11	22	25.568	34.106	29.257	2.2940	.000	-.627
12	23	25.751	34.978	30.214	2.2664	.032	-.319
13	20	26.917	37.226	31.466	2.5148	.222	-.051
14	11	28.548	37.712	32.040	2.6632	.578	-.051





LINEAR MEASUREMENT VARIABLE 104

**Lower Incisor Incisal Edge-
Menton**

LIE-ME

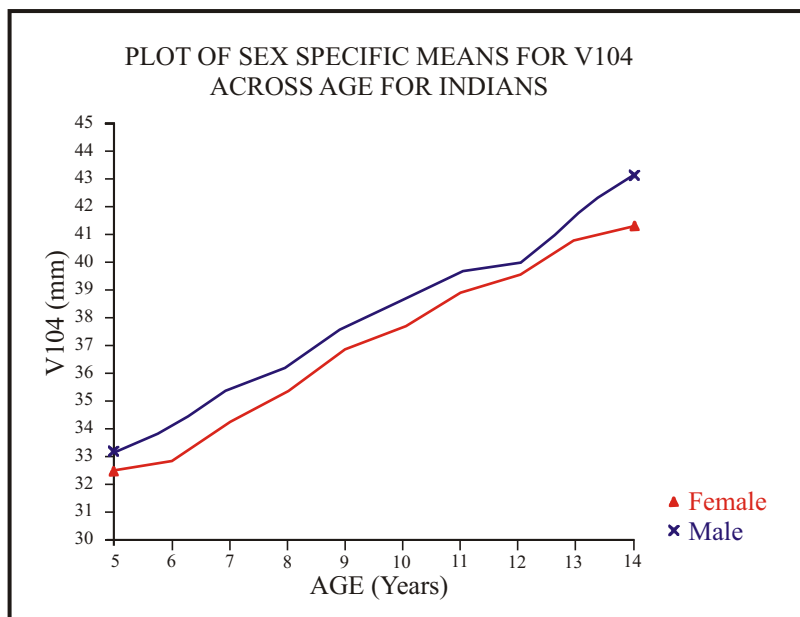
6-1

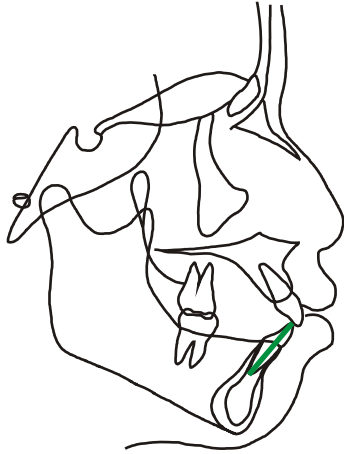
Male Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	15	29.811	36.440	33.274	1.6012	.068	.447
6	22	31.534	37.270	34.268	1.4650	.172	-.466 **
7	20	33.057	38.952	35.781	1.7785	.311	-1.052
8	23	34.010	39.853	36.583	1.6010	.385	-.263
9	23	34.373	42.574	38.040	2.1260	.281	-.302
10	21	34.929	43.468	39.125	2.2835	-.059	-.608
11	21	36.275	44.149	40.154	2.0765	-.090	-.480 *
12	19	36.957	45.269	40.544	2.0351	.275	.064
13	21	39.257	47.107	42.449	2.0936	.351	-.501
14	10	41.167	47.203	44.015	1.9559	.286	-1.145 **

Female Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	15	30.707	35.470	32.671	1.5048	.681	-.812
6	20	29.803	37.645	33.063	1.8517	.550	.308
7	23	30.047	37.889	34.494	2.0196	-.365	-.428
8	23	30.912	39.540	35.689	1.9777	-.377	.233
9	22	32.925	41.542	37.235	2.2378	-.026	-.644
10	18	34.548	40.759	38.013	1.8821	-.396	-.968
11	22	35.195	44.088	39.357	2.3811	.023	-.546
12	23	36.286	45.525	40.117	2.1941	.404	.159
13	20	36.563	47.748	41.418	2.6108	.337	.464
14	11	38.240	47.922	41.894	2.7953	.731	.077





LINEAR MEASUREMENT

VARIABLE 105

**Lower Incisor Incisal Edge-
Lower Incisor Apex**

LIE-LIA

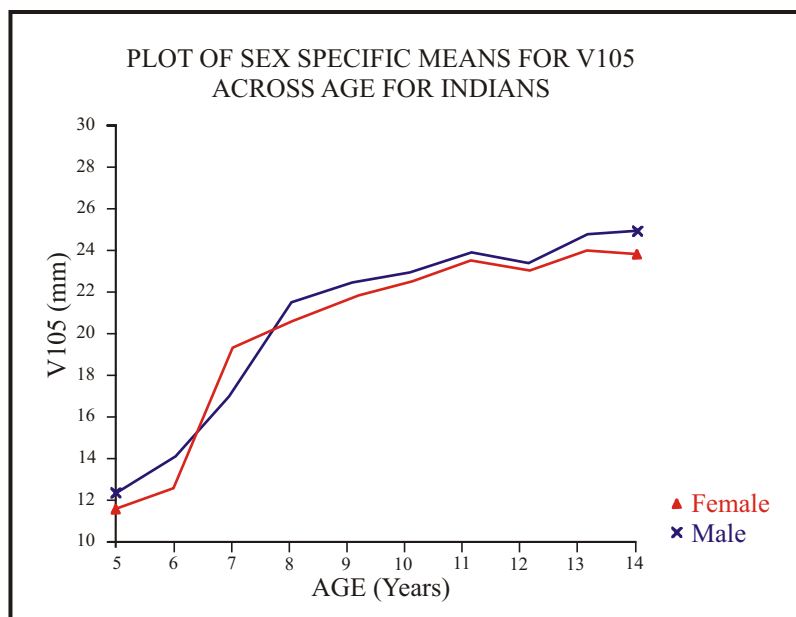
6-15

Male Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	14	9.3810	15.199	12.428	1.3787	-.016	.722
6	22	8.3732	20.895	14.190	3.5496	.553	-.791
7	20	7.1042	23.503	17.530	5.7642	-.785	-.977
8	22	20.066	23.858	21.882	1.1397	.068	-1.051
9	23	19.719	25.862	22.862	1.3077	.152	.787
10	21	20.762	25.631	23.316	1.2878	-.062	-.459
11	21	22.348	26.272	24.332	1.1293	.117	-.865
12	19	21.149	25.995	23.863	1.4140	-.060	-1.039
13	21	21.654	28.381	25.343	1.6207	-.247	-.392 *
14	10	24.357	27.231	25.516	1.0329	.411	-1.200 *

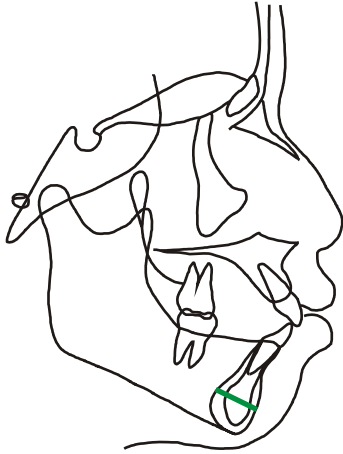
Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	8.4310	17.494	11.755	2.6087	.822	-.249
6	20	7.4585	21.713	12.710	3.9218	.343	-.538
7	21	9.5202	23.380	19.715	2.9798	-2.089	4.658
8	22	15.942	23.799	21.000	1.7989	-1.182	1.293
9	22	18.902	25.960	22.016	1.6565	.341	-.121
10	19	20.829	25.834	22.928	1.3978	.326	-.631
11	22	21.735	26.752	23.918	1.2788	.490	-.366
12	23	21.056	25.243	23.499	1.0214	-.466	-.180
13	20	20.981	27.309	24.406	1.5217	-.271	.098
14	11	22.112	27.749	24.342	1.5323	.652	.508



LINEAR MEASUREMENT

VARIABLE 106



Pogonion-Lingual Symphyseal Point

PG-SYMP

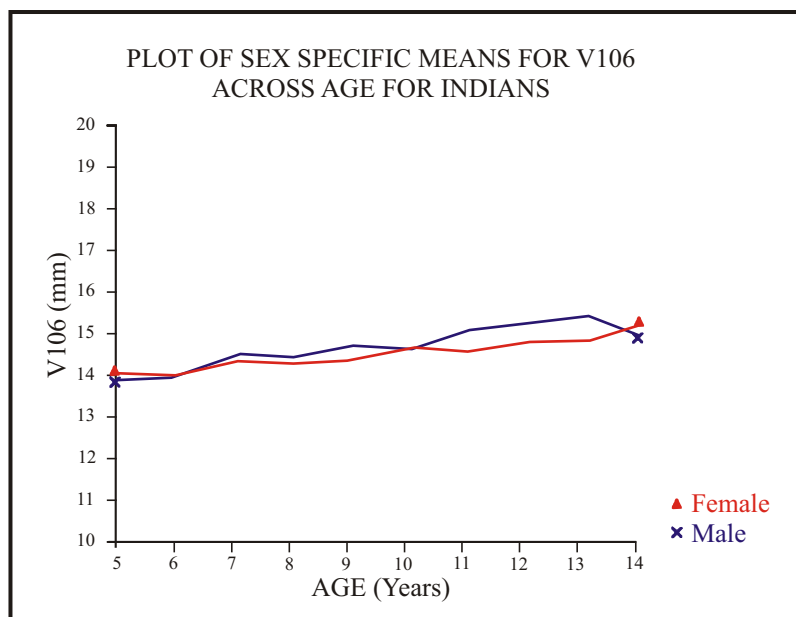
3-16

Male Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	15	11.744	15.140	13.901	1.1527	-.717	-.896
6	22	12.317	15.574	13.925	.95254	-.290	-.907
7	20	12.773	16.145	14.459	.89468	.130	-.747
8	23	12.215	16.313	14.446	1.1185	-.314	-.493
9	22	12.528	16.488	14.705	1.1184	-.176	-.603
10	21	11.585	16.577	14.643	1.5804	-.685	-.770
11	21	11.289	16.704	15.069	1.3309	-1.240	1.378
12	18	12.391	17.517	15.260	1.2725	-.654	.360
13	21	12.267	17.411	15.413	1.2604	-.551	-.014
14	10	12.334	17.834	14.971	1.5589	.254	-.348

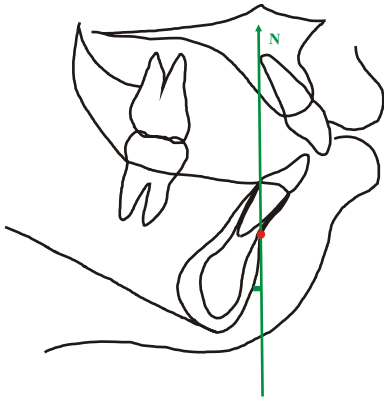
Female Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	15	12.669	15.276	13.956	.85436	.163	-.966
6	20	12.454	15.411	13.999	.92358	-.166	-1.315
7	23	12.934	16.493	14.363	.93259	.649	-.304
8	23	12.949	16.017	14.271	.86347	.260	-.797
9	22	12.239	16.774	14.375	1.1216	.304	-.215
10	19	12.821	16.875	14.611	1.2052	.609	-.677
11	22	11.593	17.607	14.613	1.3079	.386	.806
12	23	11.646	17.320	14.784	1.3017	-.109	.034
13	19	13.601	16.891	14.881	.89773	.800	.229
14	11	11.940	18.358	15.260	1.7645	-.055	-.368



LINEAR MEASUREMENT

VARIABLE 107



Pogonion perpendicular to Nasion-B Point

PG \perp N-B

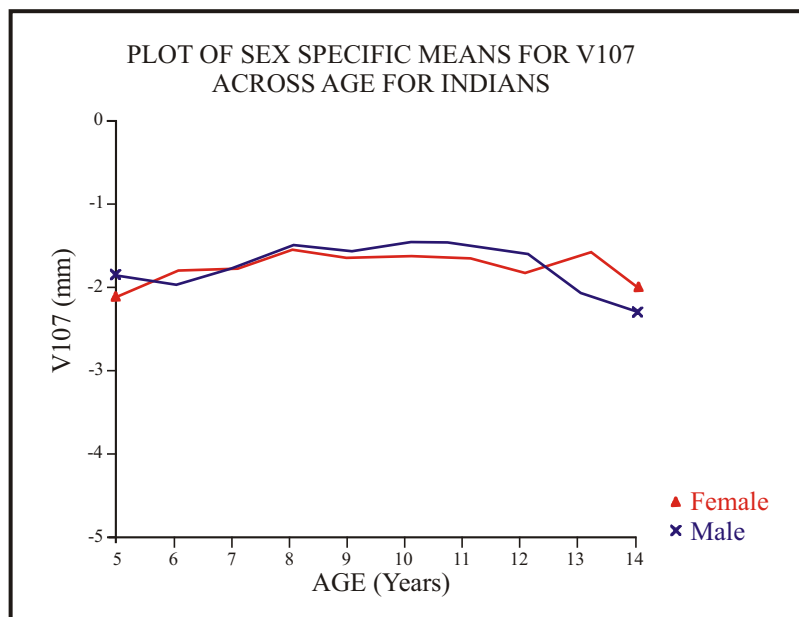
3 \perp 38-4

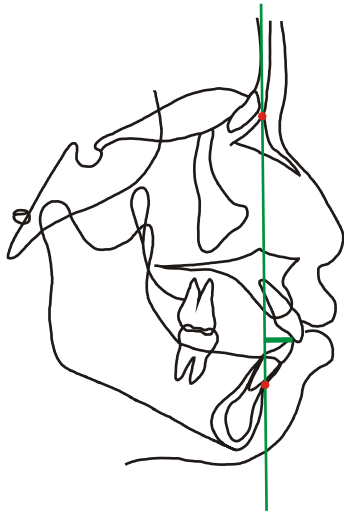
Male Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	15	-4.8297	.30094	-1.8858	1.5529	-.481	-.684
6	22	-3.3122	.29882	-1.9545	.98959	.544	-.746
7	20	-3.4300	.27041	-1.7634	.98155	.244	-.470
8	23	-3.2105	.36433	-1.4870	.89684	.184	-.561
9	23	-3.3610	-.84296	-1.5564	.95627	-.090	-.998
10	21	-3.3824	.31340	-1.4339	1.1532	-.145	-1.310
11	21	-3.1273	.30134	-1.4490	.88967	.028	-.625
12	19	-3.4988	.88835	-1.5668	1.1018	-.068	-.173
13	21	-4.4469	1.3977	-2.0828	1.4943	.413	-.256
14	10	-4.0946	.87165	-2.3375	1.4611	.989	.334

Female Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	14	-3.4481	-.43259	-2.1042	.74517	.330	.290
6	20	-3.1190	-.44295	-1.8023	.78010	.273	-.790
7	23	-4.1193	.72135	-1.7595	1.0187	.142	.804
8	23	-3.0409	-.41686	-1.5238	.74022	-.416	.033
9	22	-3.5968	.59148	-1.6353	1.1452	-.142	-.743
10	19	-3.9097	.35434	-1.6156	1.0008	-.648	.167
11	22	-3.2600	.22853	-1.6616	.86592	-.305	-.083
12	23	-3.7351	-.24676	-1.8055	.98458	-.239	-.735
13	19	-3.4327	.60081	-1.5500	.74235	-.493	1.122
14	11	-5.4218	-.41105	-2.0545	1.5063	-1.214	.435





LINEAR MEASUREMENT VARIABLE 108

**Lower Incisor Incisal Edge
Perpendicular to Nasion-
B Point**

LIE⊥N-B

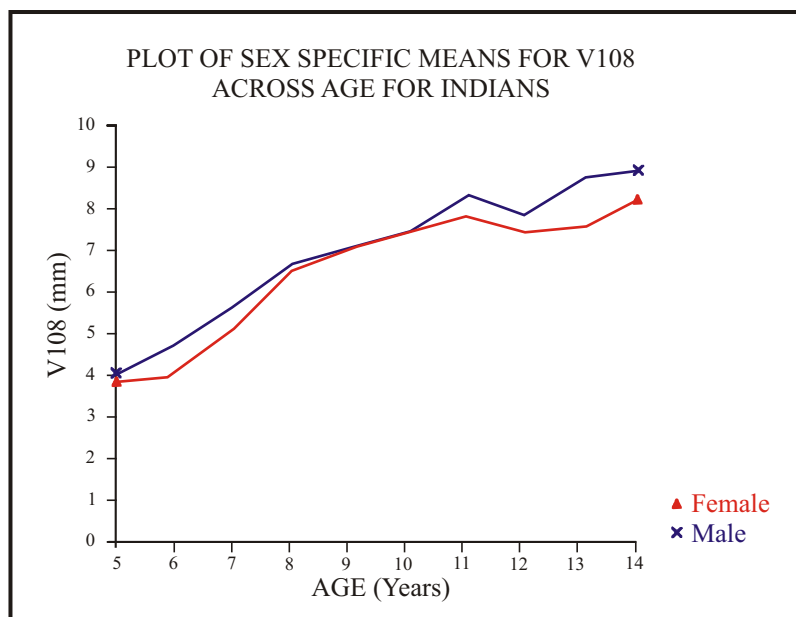
6138-4

Male Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	1.0342	5.7680	3.9761	1.2547	-.673	.225
6	22	.87460	6.8401	4.6910	1.6205	-.504	-.405
7	20	1.6675	9.1692	5.6409	1.8567	.154	.076
8	23	2.2353	10.579	6.7045	1.9340	-.141	.522
9	22	4.4378	9.8871	7.1359	1.4803	-.030	-.457
10	20	4.4362	10.544	7.5140	1.5574	.185	-.076
11	21	4.1023	12.503	8.4305	1.9059	.007	.113
12	19	4.7312	11.005	7.9791	1.6311	-.242	-.458
13	21	4.7539	13.365	8.8927	2.1223	.314	-.226
14	10	5.8741	13.671	9.0424	2.3292	.712	-.200

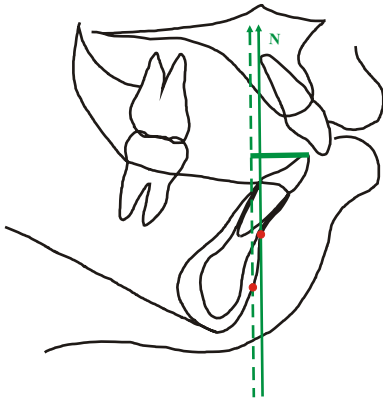
Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	.89450	6.0909	3.7671	1.2985	-.363	.141
6	19	2.3707	7.9854	3.9447	1.3782	1.362	1.894
7	23	2.6062	8.7572	5.1044	1.8182	.518	-.630
8	23	3.8276	10.909	6.5522	1.8963	.719	-.136
9	22	4.9275	11.265	7.0914	1.7614	.764	-.177
10	18	4.7724	9.9003	7.4665	1.2755	-.125	-.249
11	22	4.8002	12.020	7.8973	1.7512	.425	-.296
12	22	5.2016	10.110	7.5050	1.4458	.239	-.901
13	19	4.9481	10.765	7.6302	1.5763	.299	-.389
14	11	4.7867	13.054	8.3646	2.5720	.249	-.937



LINEAR MEASUREMENT

VARIABLE 109



**Lower Incisor Incisal Edge
Perpendicular to Pogonion
parallel to Nasion-B Point**

LIE \perp N-B/PG \perp N-B

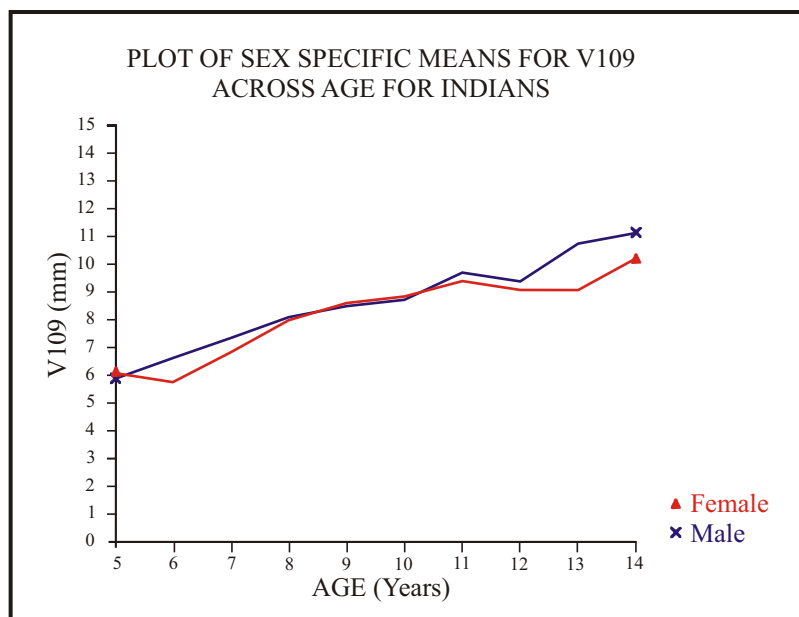
**6 \perp 38-4/
3 \perp 38-4**

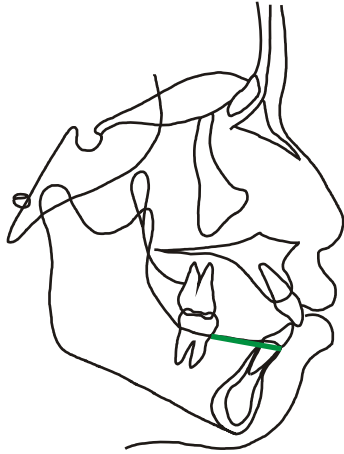
Male Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	2.6349	10.379	5.8623	2.3975	.373	-.942
6	22	2.7670	9.6622	6.6459	2.0538	-.426	-.800
7	20	3.7540	11.928	7.4046	2.3485	.329	-.685
8	23	2.8165	13.257	8.1919	2.4179	-.024	.011
9	22	4.6398	12.593	8.6105	2.1650	-.101	-.734
10	20	4.6408	13.581	8.8506	2.3749	.292	-.621
11	21	3.8009	15.630	9.8797	2.4914	-.069	.811 **
12	19	5.6566	13.444	9.5461	2.3854	-.056	-1.028
13	21	5.7437	16.520	10.976	3.0488	.384	-.862 *
14	10	7.3404	16.628	11.380	3.0349	.345	-.957

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	14	2.8504	8.9106	6.0770	1.4257	-.323	.684
6	19	3.0049	9.6355	5.7344	1.6648	.547	.134
7	23	2.6940	10.952	6.8642	2.1239	.382	-.230
8	23	4.7447	13.401	8.0764	2.3380	.804	.076
9	22	4.4661	14.862	8.7270	2.6349	.744	.199
10	18	5.7618	13.810	8.9761	1.9543	.480	.451
11	22	6.0571	15.054	9.5593	2.3339	.665	-.014
12	22	6.1008	13.770	9.2231	2.0510	.520	-.482
13	19	6.3778	14.943	9.2197	2.1757	.898	.524
14	11	6.5268	17.239	10.419	3.6804	.647	-.722





LINEAR MEASUREMENT

VARIABLE 110

**Infradentale perpendicular to
Lower Molar Mesial Cemento-
Enamel Junction**

ID-LMJ

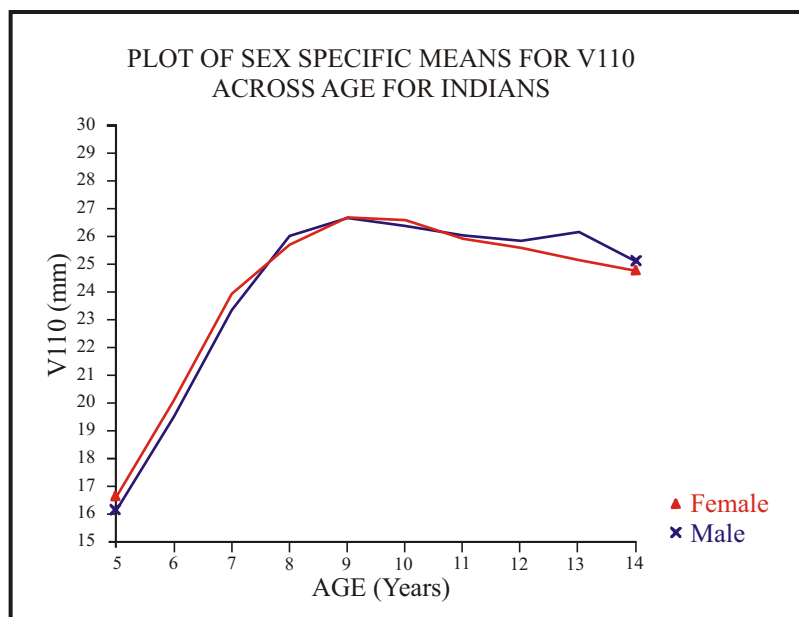
5-17

Male Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	13.792	18.837	16.098	1.4209	.340	-.801
6	22	14.917	28.386	19.663	5.0866	.780	-1.200
7	20	15.168	29.017	23.700	5.2171	-.725	-1.239
8	23	16.427	29.157	26.511	2.5309	-2.807	9.166
9	22	25.287	28.644	27.189	.81050	-.259	-.025
10	21	25.355	29.057	26.888	1.0661	.388	-.885
11	21	23.189	28.793	26.530	1.4264	-.303	-.158
12	19	23.638	28.768	26.325	1.3079	-.257	-.399
13	21	23.650	28.944	26.660	1.5599	-.109	-1.051 **
14	9	23.927	27.674	25.524	1.5022	.497	-1.399

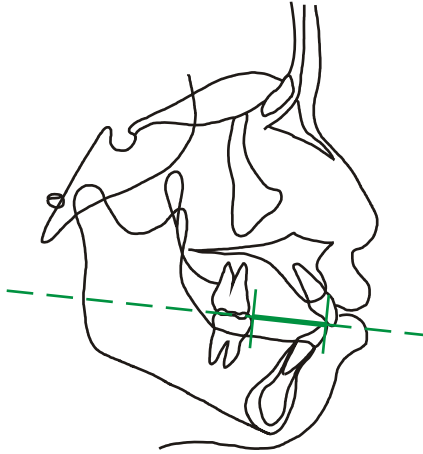
Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	14.134	20.404	16.606	1.7467	.626	-.307
6	20	14.449	30.665	20.284	5.5901	.497	-1.465
7	23	15.306	29.857	24.317	4.2634	-.945	-.478
8	23	20.803	29.385	26.177	1.8523	-.866	1.589
9	21	23.980	29.604	27.211	1.4400	-.330	-.602
10	19	23.408	31.950	27.110	2.0299	.379	.085
11	21	21.721	29.258	26.402	1.9930	-.379	-.217
12	22	22.902	30.106	26.060	1.8751	.155	-.755
13	19	23.863	28.087	25.596	1.2398	.489	-.912
14	11	22.109	26.465	25.183	1.3398	-1.203	.494



LINEAR MEASUREMENT

VARIABLE 111



**Lower Molar Mesial Contact
Point perpendicular to Lower
Incisor Incisal Edge
on Downs Occlusal Plane**

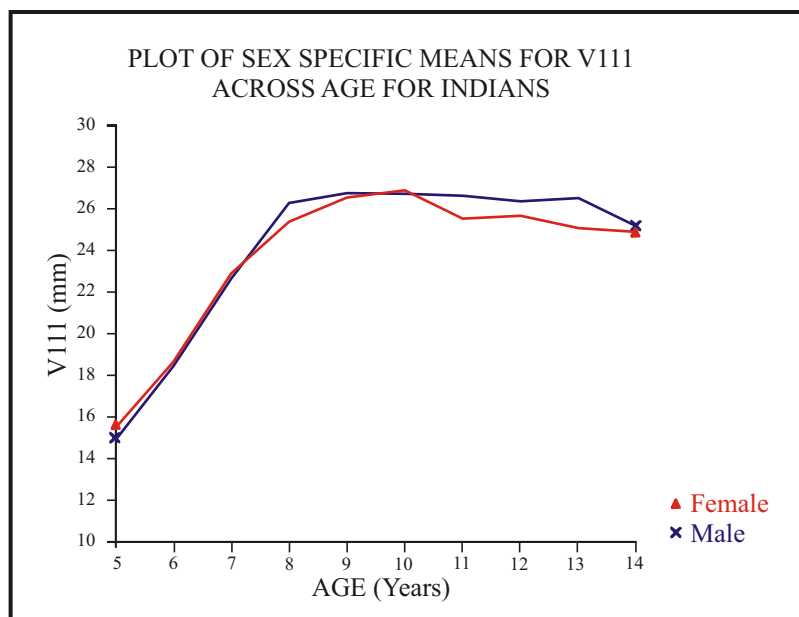
**ADP-PDP \perp LMC- 56-57 \perp 54-
ADP-PDP \perp LIE 56-57 \perp 6**

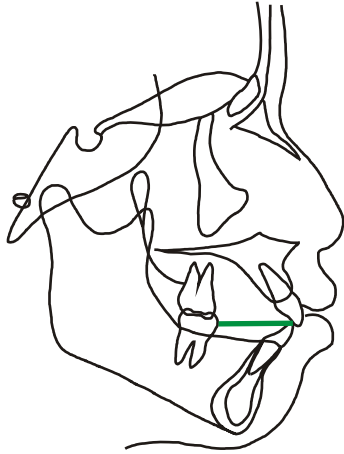
Male Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	12.597	17.087	14.855	1.2818	.240	-.594
6	22	12.675	27.029	18.583	5.1270	.671	-1.275
7	20	13.941	28.194	23.001	5.5087	-.788	-1.182
8	22	24.200	29.326	26.825	1.2646	.012	-.255
9	22	25.435	28.940	27.322	1.0525	-.271	-.936
10	21	25.217	28.909	27.290	.87243	-.333	.224
11	20	26.077	28.674	27.191	.85360	.244	-1.369 *
12	19	24.501	29.116	26.910	1.3622	-.073	-.859
13	21	23.286	30.071	27.073	1.7444	-.192	-.449 **
14	9	23.056	27.207	25.651	1.3153	-.710	-.311

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	12.666	19.021	15.469	1.9111	.083	-.972
6	20	13.006	29.519	18.804	5.4478	.568	-1.227
7	23	12.235	30.399	23.267	4.9218	-.979	-.198
8	23	20.064	28.736	25.879	2.1490	-1.133	.883
9	21	22.946	29.672	27.100	1.5776	-.620	.492
10	18	25.618	31.094	27.464	1.4357	.911	.380
11	22	20.297	30.245	26.035	2.5032	-.608	.118
12	22	22.156	29.764	26.180	1.8986	-.116	-.445
13	20	20.879	30.052	25.557	2.1446	-.259	.255
14	11	23.132	28.567	25.366	1.7869	.383	-1.139





LINEAR MEASUREMENT VARIABLE 112

**Lower Incisor Incisal Edge-
Lower Molar Mesial Contact
Point**

LIE-LMC

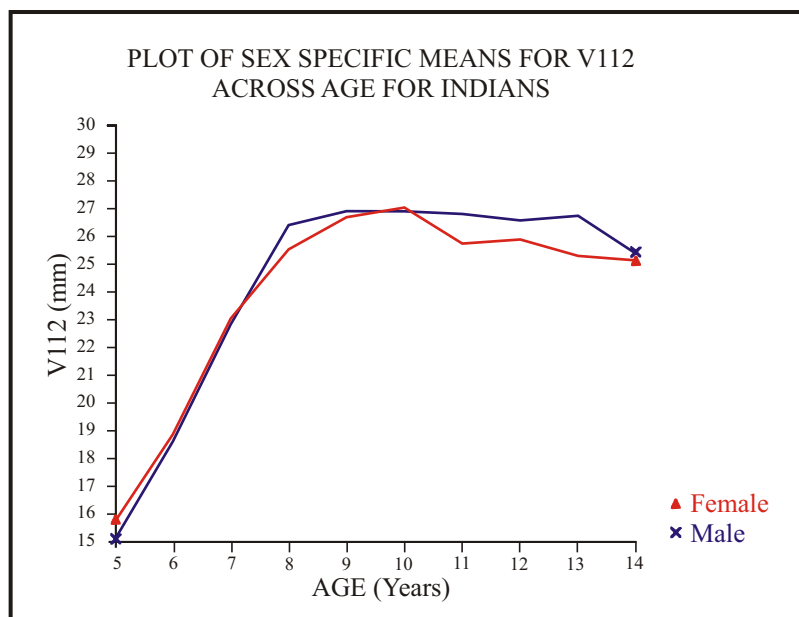
6-54

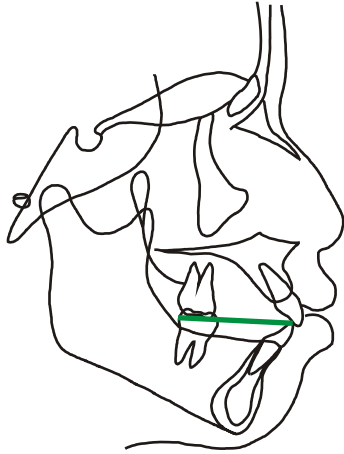
Male Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	12.736	17.209	15.037	1.2795	.218	-.613
6	22	12.931	27.149	18.742	5.1124	.680	-1.274
7	20	14.207	28.262	23.177	5.4692	-.786	-1.183
8	22	24.336	29.326	26.932	1.2390	-.045	-.321
9	22	25.482	29.057	27.459	1.0514	-.234	-.932
10	21	25.426	29.136	27.453	.88480	-.170	.232
11	20	26.200	28.794	27.353	.84970	.213	-1.371 *
12	19	24.672	29.236	27.108	1.3421	-.121	-.817
13	21	23.420	30.345	27.284	1.7601	-.230	-.431 **
14	9	23.241	27.355	25.849	1.3279	-.744	-.357

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	12.877	19.221	15.712	1.8376	.131	-.922
6	20	13.367	29.621	19.011	5.4323	.560	-1.289
7	23	12.490	30.569	23.396	4.9064	-.976	-.201
8	23	20.547	28.829	26.013	2.0587	-1.081	.736
9	21	23.080	29.816	27.230	1.5629	-.618	.603
10	18	25.808	31.172	27.595	1.4176	.905	.331
11	22	20.687	30.355	26.232	2.4336	-.546	.023
12	22	22.480	29.951	26.387	1.8722	-.114	-.415
13	20	21.123	30.233	25.766	2.1147	-.253	.313
14	11	23.532	28.791	25.596	1.7485	.410	-1.083





LINEAR MEASUREMENT VARIABLE 113

**Lower Incisor Incisal Edge-
Lower Molar Distal Contact
Point**

LIE -LDC

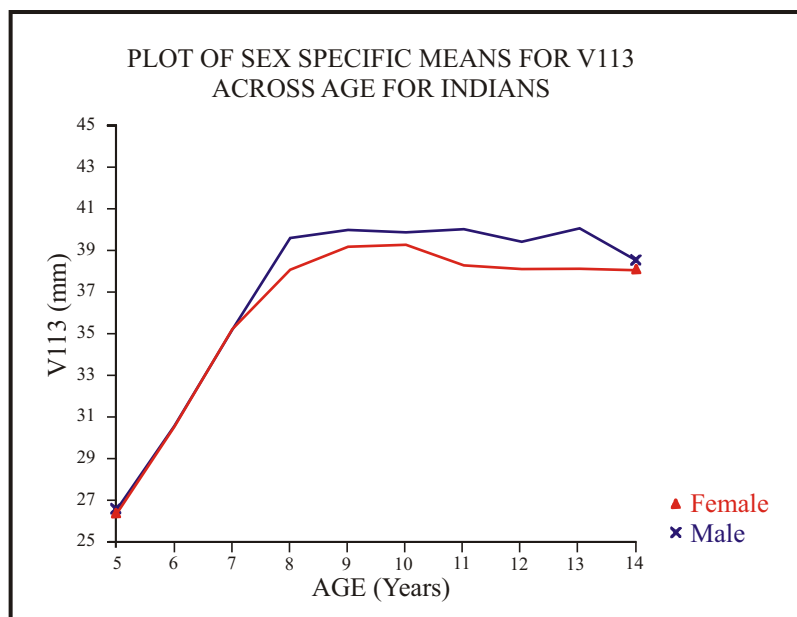
6-25

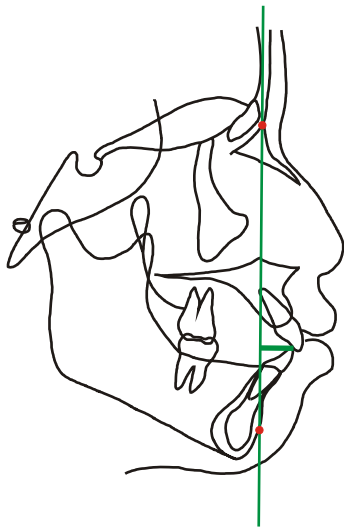
Male Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	24.041	29.094	26.449	1.5651	.311	-1.067
6	22	24.315	40.445	30.687	5.6103	.676	-1.273
7	20	25.160	42.015	35.544	6.1243	-.739	-1.181
8	22	37.948	43.510	40.171	1.4804	.513	-.258 **
9	22	38.540	42.692	40.578	1.1143	-.303	-.661
10	21	38.005	42.909	40.457	1.2304	-.411	-.091
11	20	38.927	42.212	40.616	1.0226	-.161	-1.171 **
12	19	36.234	42.272	39.982	1.6465	-.737	-.370 **
13	21	36.633	43.183	40.659	1.8813	-.503	-.709 **
14	9	37.547	40.795	39.004	1.1080	.371	-1.189

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	23.050	30.339	26.243	2.0328	.180	-.510
6	20	23.982	41.997	30.647	6.0654	.530	-1.281
7	23	24.927	43.045	35.567	5.0334	-.916	-.349
8	23	32.147	42.862	38.569	2.3571	-.819	.990
9	21	35.446	42.860	39.730	1.8014	-.275	.044
10	19	34.685	44.158	39.829	2.0752	-.183	.840
11	22	32.419	43.143	38.790	2.7253	-.767	.022
12	22	34.362	41.860	38.604	2.0748	-.131	-.809
13	20	33.658	43.335	38.619	2.1952	-.217	.524
14	11	35.940	41.647	38.543	1.7974	.210	-1.111





LINEAR MEASUREMENT

VARIABLE 114

**Lower Incisor Incisal Edge
perpendicular to Nasion-
Pogonion**

LIE⊥N-PG

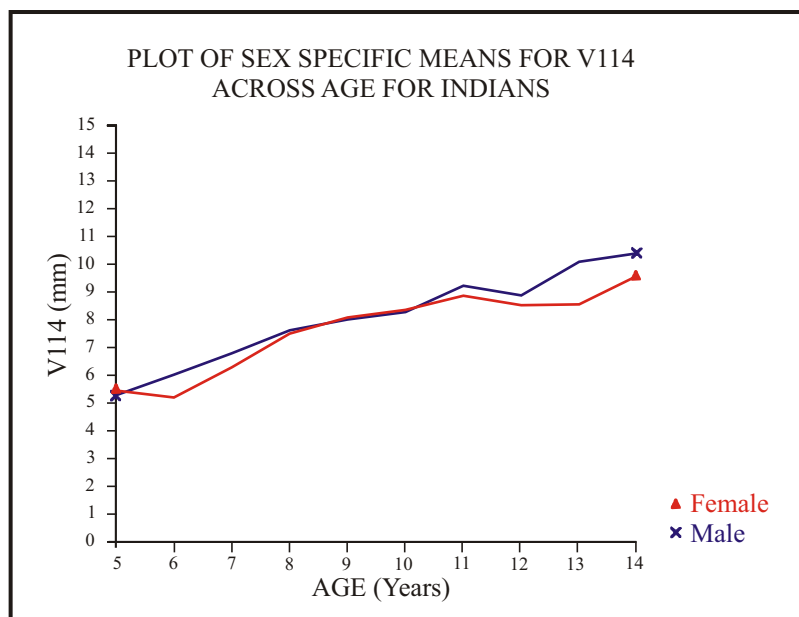
6138-3

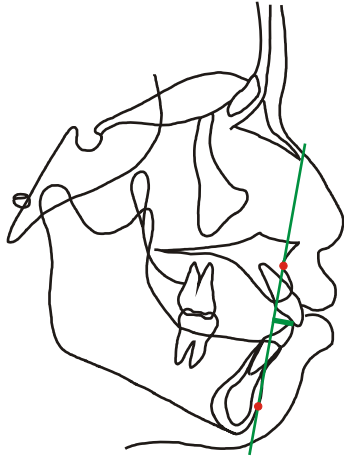
Male Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	2.1617	8.9655	5.3224	2.0171	.213	-.968
6	22	2.2150	8.8125	6.0994	1.9017	-.468	-.693
7	20	3.1157	11.156	6.9093	2.1849	.312	-.520
8	23	2.6497	12.524	7.7779	2.2612	-.059	.199
9	22	4.6123	11.824	8.1889	1.9535	-.100	-.642
10	20	4.5816	12.668	8.4700	2.1154	.282	-.456
11	21	3.8872	14.754	9.4657	2.3057	-.042	.728 **
12	19	5.3855	12.760	9.1004	2.1421	-.101	-.934
13	21	5.4547	15.636	10.373	2.7271	.399	-.668 *
14	10	7.5589	15.754	10.693	2.7620	.525	-.777

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	14	2.7198	7.9447	5.4994	1.2941	-.244	.229
6	19	2.8699	9.1774	5.2370	1.5582	.780	.531
7	23	2.6777	10.387	6.3778	1.9954	.448	-.232
8	23	4.6331	12.536	7.6539	2.2072	.796	-.002
9	22	4.6327	13.853	8.2641	2.3671	.789	.194
10	18	5.4830	12.827	8.5523	1.7605	.417	.369
11	22	5.7025	14.225	9.0877	2.1521	.637	-.038
12	22	5.8412	12.805	8.7293	1.8589	.508	-.511
13	19	5.9336	13.789	8.7610	1.9943	.766	.235
14	11	6.0722	16.076	9.8382	3.3566	.555	-.810





LINEAR MEASUREMENT

VARIABLE 115

**Lower Incisor Incisal Edge
perpendicular to A Point-
Pogonion
Ricketts Analysis**

LIE⊥A-PG

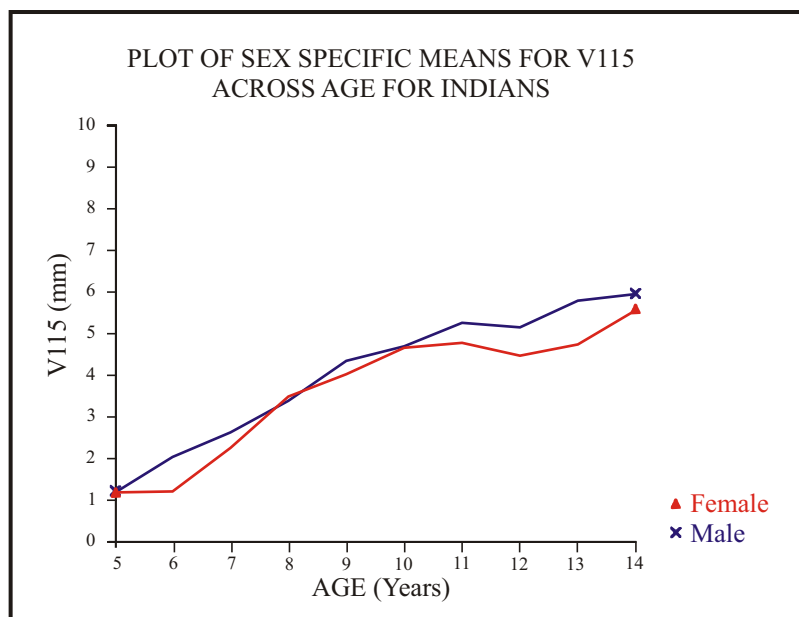
6⊥9-3

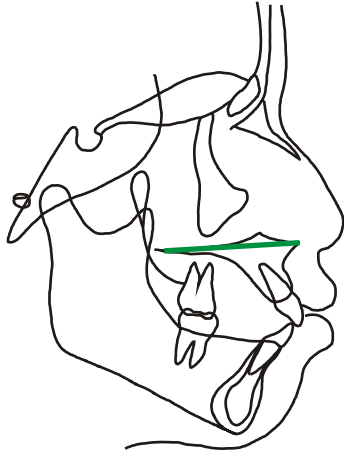
Male Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	15	-1.1759	4.9017	1.1769	1.7086	.400	-.385
6	22	-.95534	5.3979	2.0818	1.6763	.120	-.142 *
7	20	-.32395	7.0433	2.7015	2.0058	.467	-.607
8	23	-.57438	8.6233	3.4984	2.1188	.342	.125
9	23	.43006	9.3196	4.5061	2.0681	.401	.254
10	21	2.0018	9.4456	4.8733	2.0278	.588	-.423
11	21	1.6341	9.0590	5.4657	1.9554	.023	-.459 **
12	19	2.6973	9.0887	5.3514	2.0454	.607	-.725
13	21	2.5298	10.692	6.0242	2.1267	.705	.020 *
14	10	4.0494	10.317	6.1916	1.9223	.809	.077

Female Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	15	-3.5266	4.0025	1.1864	1.8793	-1.036	.854
6	19	-.41187	3.9133	1.2118	1.1942	.457	-.490
7	23	-1.1287	5.9046	2.3103	1.6313	-.054	.088
8	23	.74008	7.5958	3.6058	1.9392	.591	-.458
9	22	.70074	8.0438	4.1692	1.9783	.321	-.152
10	19	1.7185	8.2512	4.8359	1.6295	.469	.342
11	22	.68185	9.0452	4.9605	1.8102	-.329	.742
12	22	1.8156	7.1889	4.6365	1.3388	-.040	-.191
13	19	1.6694	7.6840	4.9205	1.6496	-.436	-.412
14	11	1.9075	10.119	5.7840	2.2539	.367	-.136





LINEAR MEASUREMENT VARIABLE 116

**Posterior Nasal Spine-Anterior
Nasal-Spine**

PNS-ANS

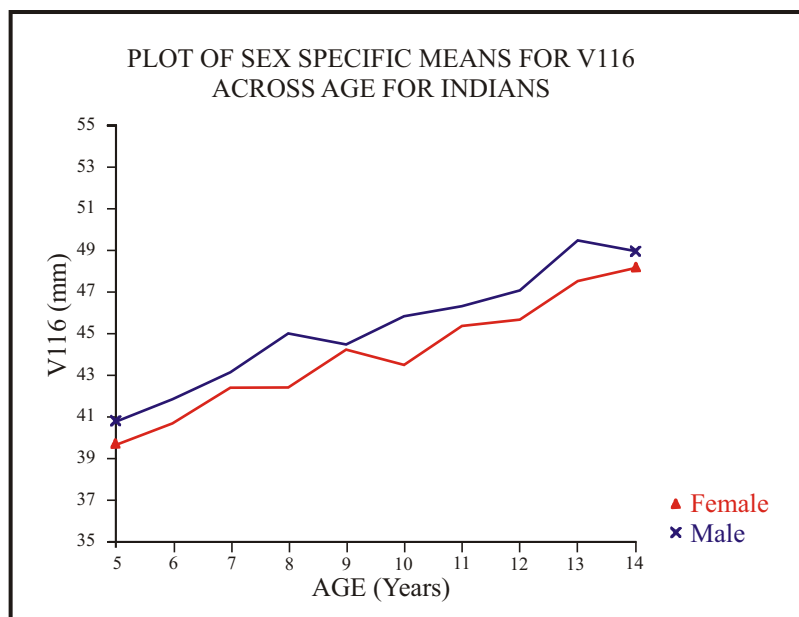
45-10

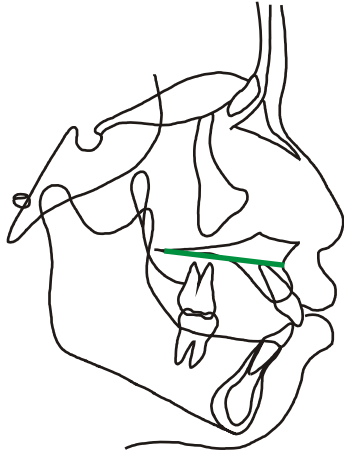
Male Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	14	36.011	44.677	40.822	2.5025	-.724	-.279
6	22	35.410	48.035	41.980	3.1494	-.256	-.542
7	20	36.817	47.382	43.340	2.9027	-.365	-.641
8	22	42.902	49.362	45.300	1.6632	.734	.243 **
9	22	38.219	49.579	44.744	2.3448	-.686	1.389
10	20	43.088	50.628	46.167	2.4230	.436	-1.282 **
11	21	41.846	50.703	46.676	2.7652	-.386	-1.250
12	19	41.832	54.363	47.471	3.1174	.367	-.196
13	21	41.546	56.890	49.994	3.7501	-.337	-.288 *
14	10	44.178	53.985	49.452	3.4214	-.006	-1.199

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	33.984	44.297	39.649	2.9251	-.285	-.823
6	20	35.795	44.412	40.761	2.4298	-.622	-.159
7	23	38.665	46.427	42.562	2.0146	-.024	-.746
8	23	37.715	46.635	42.574	2.2130	.036	-.350
9	22	40.205	49.230	44.484	2.6327	.299	-.832
10	19	40.388	48.337	43.712	2.2809	.355	-.634
11	22	41.101	50.209	45.678	2.1367	.133	-.212
12	23	39.047	51.766	45.997	3.2540	-.411	-.375
13	20	39.609	53.369	47.942	3.6539	-.707	-.328
14	11	45.183	53.040	48.605	2.7194	.183	-1.255





LINEAR MEASUREMENT VARIABLE 117

Posterior Nasal Spine-A Point

PNS-A

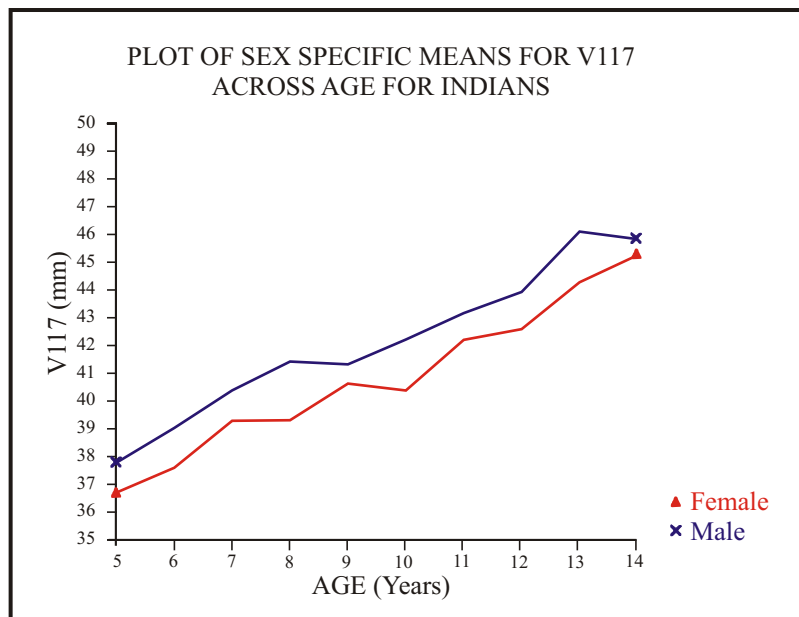
45-9

Male Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	14	33.824	41.158	37.823	1.9580	-.433	-.146
6	22	34.315	43.962	39.137	2.4696	-.032	-.655
7	20	35.814	44.518	40.559	2.4954	-.076	-.887
8	23	37.603	46.402	41.651	1.8524	.260	.757 **
9	22	36.068	45.097	41.545	2.0653	-.558	.700
10	21	36.953	45.918	42.484	2.3210	-.329	-.356 **
11	21	39.312	46.363	43.484	2.3314	-.541	-.984
12	19	40.339	50.636	44.285	2.5710	.555	.006
13	21	40.129	53.114	46.569	3.1061	.054	-.199 **
14	10	41.679	50.398	46.283	2.9706	.037	-1.170

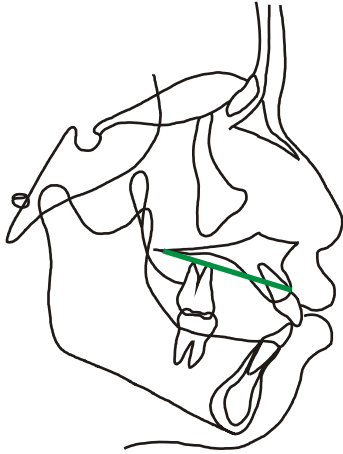
Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	30.830	40.717	36.692	3.0340	-.351	-1.017
6	20	32.923	41.975	37.631	2.4872	-.181	-.671
7	23	35.832	43.023	39.409	1.9678	.218	-.819
8	23	34.626	43.902	39.431	2.2090	.183	.021
9	22	37.055	44.492	40.817	2.1771	.214	-1.022
10	19	36.865	45.309	40.556	2.2836	.439	-.520
11	22	38.429	45.756	42.472	1.7191	-.267	.003
12	23	36.196	48.309	42.878	2.9693	-.380	-.386
13	20	38.253	48.268	44.351	2.9016	-.753	-.402
14	11	41.731	48.729	45.675	2.2976	-.294	-1.067



LINEAR MEASUREMENT

VARIABLE 118



Posterior Nasal Spine-Supradentale

PNS-SD

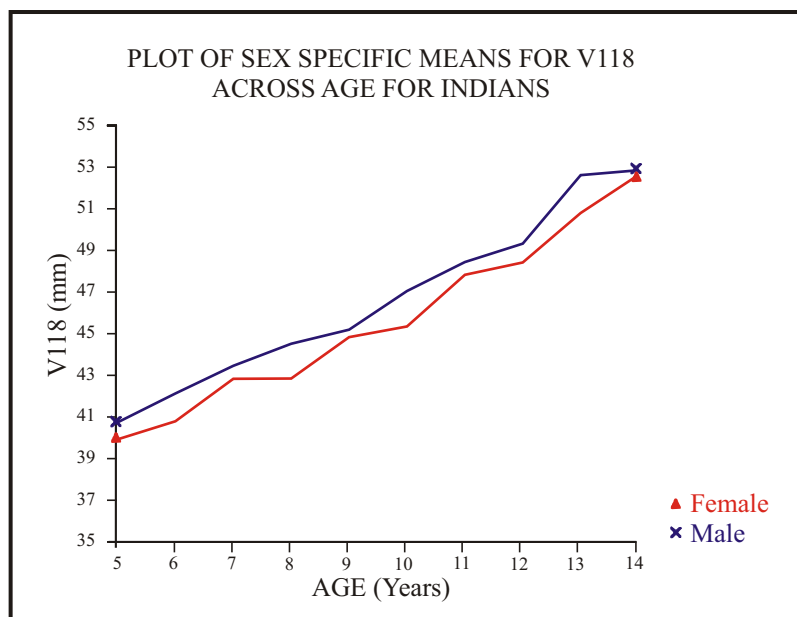
45-8

Male Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	14	36.485	43.823	40.746	1.9793	-.616	-.100
6	22	37.251	47.362	42.206	2.0977	.405	1.404 *
7	20	37.935	47.585	43.602	2.7189	-.319	-.859
8	23	40.686	47.711	44.715	2.0092	-.312	-.719 **
9	23	40.389	50.333	45.425	2.4339	.114	-.318
10	21	43.866	51.507	47.375	2.4903	.097	-1.138 *
11	21	44.707	52.402	48.837	2.1693	-.144	-.967
12	18	47.530	53.884	49.767	1.6992	.759	-.036
13	21	46.294	57.681	53.223	3.1163	-.715	-.066 *
14	10	49.563	58.303	53.471	2.7974	.238	-.810

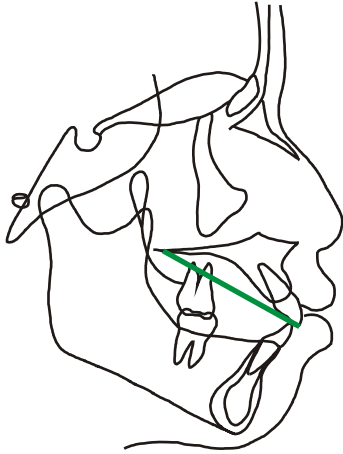
Female Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	15	34.434	45.231	39.890	2.8508	-.108	-.493
6	20	36.091	44.946	40.803	2.3214	-.125	-.291
7	23	38.764	46.213	42.946	2.0196	-.133	-.759
8	23	38.228	48.999	42.960	2.4911	.585	.035
9	22	38.547	51.003	45.048	3.0150	-.123	-.141
10	19	41.725	50.955	45.587	2.5593	.631	-.381
11	22	44.589	53.896	48.193	2.3807	.390	-.269
12	23	41.551	55.504	48.817	3.0975	-.190	.319
13	20	44.661	56.759	51.313	3.2298	-.332	-.438
14	11	47.141	58.056	53.238	2.8501	-.495	.345



LINEAR MEASUREMENT

VARIABLE 119



Posterior Nasal Spine-Upper Incisor Incisal Edge

PNS-UIE

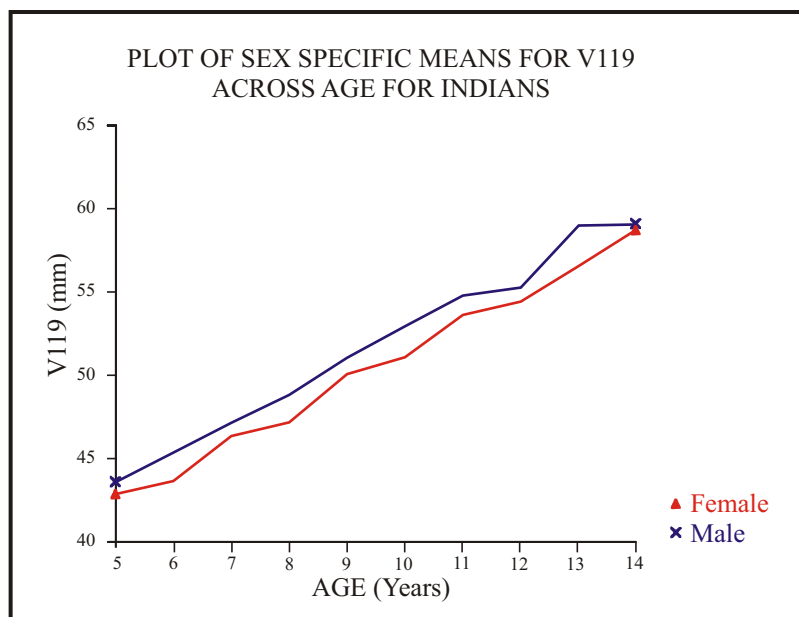
45-7

Male Indian

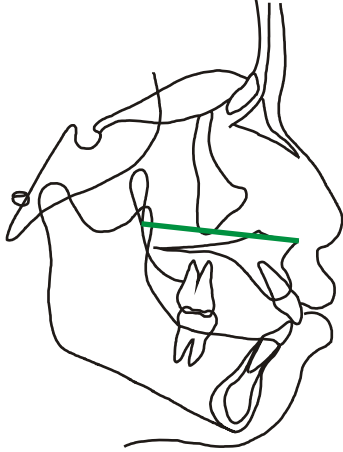
Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	13	37.659	46.705	43.377	2.2406	-1.137	1.334
6	21	42.225	50.504	45.246	2.3826	.596	-.629 **
7	18	40.820	51.055	47.124	2.9175	-.514	-.653
8	22	44.709	53.367	48.885	2.5209	-.153	-1.060 **
9	21	46.812	54.852	51.227	2.4103	-.157	-1.027
10	21	49.182	58.285	53.211	2.8018	.269	-.967 *
11	21	50.206	60.034	55.149	2.3824	.098	-.363
12	18	51.686	59.524	55.654	1.9969	.118	-.132
13	21	52.708	64.728	59.567	3.1280	-.610	-.082 **
14	10	54.165	65.210	59.634	3.4038	.127	-.561

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	37.448	47.961	42.627	2.8310	-.059	-.300
6	19	38.423	48.135	43.452	2.6328	-.038	-.696
7	22	42.731	52.076	46.289	2.1459	.791	.667
8	22	40.584	51.113	47.152	2.3360	-.624	1.109
9	22	43.721	56.756	50.196	3.2672	.166	-.298
10	19	47.599	58.032	51.260	2.9489	.712	-.281
12	22	49.437	60.877	53.928	2.9117	.552	-.163
12	23	48.019	62.729	54.770	3.2444	.228	.322
13	20	52.107	62.681	57.013	3.0660	.362	-.940
14	11	54.320	65.239	59.318	2.9544	.278	-.108



LINEAR MEASUREMENT VARIABLE 120



**Pterygo-Maxillary Fissure,
Inferior-Anterior Nasal Spine**

PTM-ANS

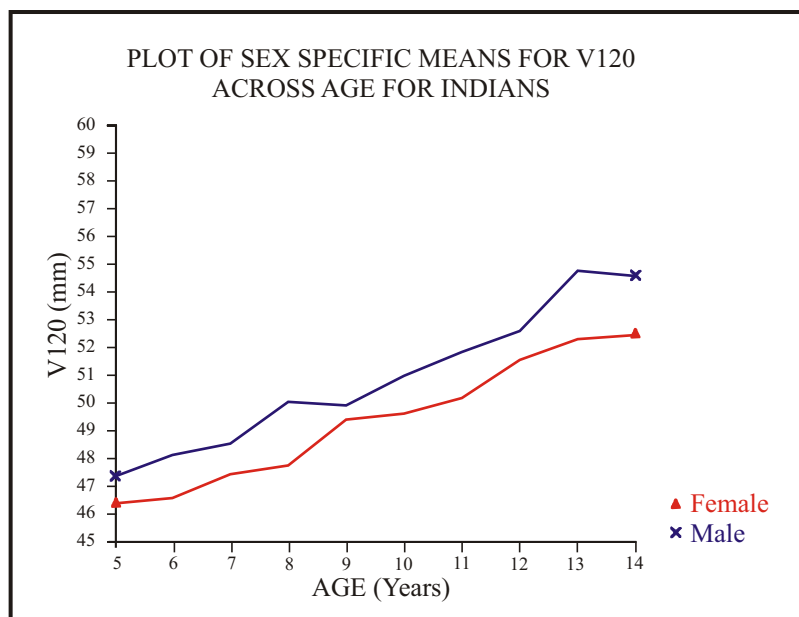
43-10

Male Indian

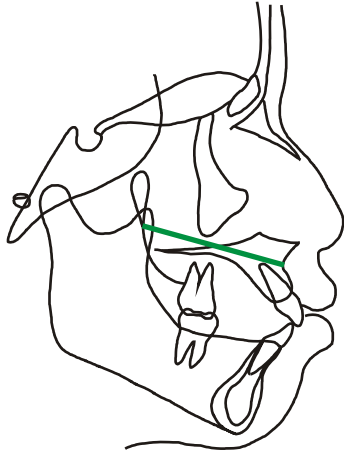
Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis	
5	15	44.282	49.304	47.500	1.5513	-.605	-.738	*
6	22	43.991	51.783	48.318	2.0648	-.638	-.367	**
7	20	45.153	52.857	48.749	2.0166	.091	-.602	
8	23	44.862	54.851	50.329	2.6660	-.588	-.131	**
9	23	46.006	53.572	50.194	1.8255	-.245	.051	
10	21	46.244	54.780	51.314	2.2948	-.964	.096	**
11	21	47.409	55.814	52.216	2.3245	-.596	-.293	
12	19	47.344	57.416	53.011	2.5865	-.183	-.317	
13	20	50.475	60.342	55.290	2.5590	-.073	-.638	**
14	10	48.313	59.751	55.090	3.6344	-.692	-.609	

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis	
5	15	43.158	49.478	46.484	1.7122	-.416	-.164	
6	20	42.298	49.309	46.698	2.0231	-.475	-.663	
7	23	43.307	51.252	47.590	2.1791	-.230	-.659	
8	23	43.502	50.526	47.922	1.9467	-.698	-.546	
9	21	45.201	52.398	49.657	1.5911	-.977	1.342	
10	18	46.292	51.971	49.884	1.7080	-.671	-.632	
11	22	45.869	55.423	50.474	2.5063	-.184	-.581	
12	23	46.185	55.237	51.916	2.6152	-.731	-.673	
13	20	46.328	56.243	52.702	2.7492	-.796	-.073	
14	11	46.905	56.347	52.858	3.1566	-.678	-.709	



LINEAR MEASUREMENT VARIABLE 121



Pterygo-Maxillary Fissure Inferior-A Point

PTM-A

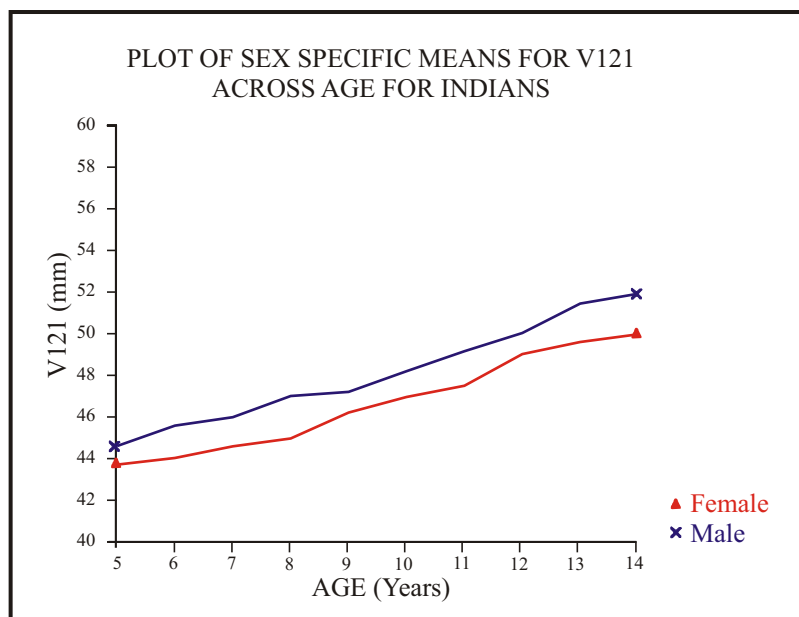
43-9

Male Indian

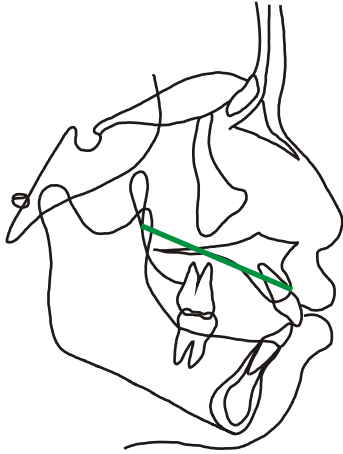
Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis	
5	15	42.246	46.646	44.825	1.3139	-.625	-.653	*
6	22	42.838	48.070	45.855	1.4128	-.696	-.484	**
7	20	42.764	48.969	46.281	1.5865	-.322	-.337	**
8	23	41.908	52.749	47.350	2.5236	-.236	-.014	**
9	23	43.843	49.936	47.558	1.6003	-.534	-.409	*
10	21	44.202	51.034	48.601	1.7610	-.797	.158	**
11	21	45.027	53.185	49.609	2.1694	-.659	.024	
12	19	46.672	55.707	50.529	2.1944	.457	-.061	
13	21	46.162	56.997	52.014	2.6412	-.115	-.256	**
14	10	46.388	55.885	52.510	2.9857	-.911	-.110	

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis	
5	15	40.119	46.635	43.887	1.7697	-.275	-.313	
6	19	41.793	46.390	44.223	1.3758	-.210	-.988	
7	23	40.627	47.342	44.810	1.7388	-.470	-.417	
8	23	40.898	47.951	45.207	1.7923	-.662	-.177	
9	21	42.483	48.777	46.514	1.5128	-.743	.462	
10	18	43.662	49.651	47.300	1.7031	-.524	-.587	
11	22	43.011	52.104	47.867	2.0173	-.382	.338	
12	23	44.560	54.102	49.465	2.1697	-.314	-.099	
13	19	45.991	53.110	50.075	2.0489	-.135	-.773	
14	11	43.955	53.964	50.464	3.1026	-.742	-.161	



LINEAR MEASUREMENT VARIABLE 122



**Pterygo-Maxillary Fissure,
Inferior-Supradentale**

PTM-SD

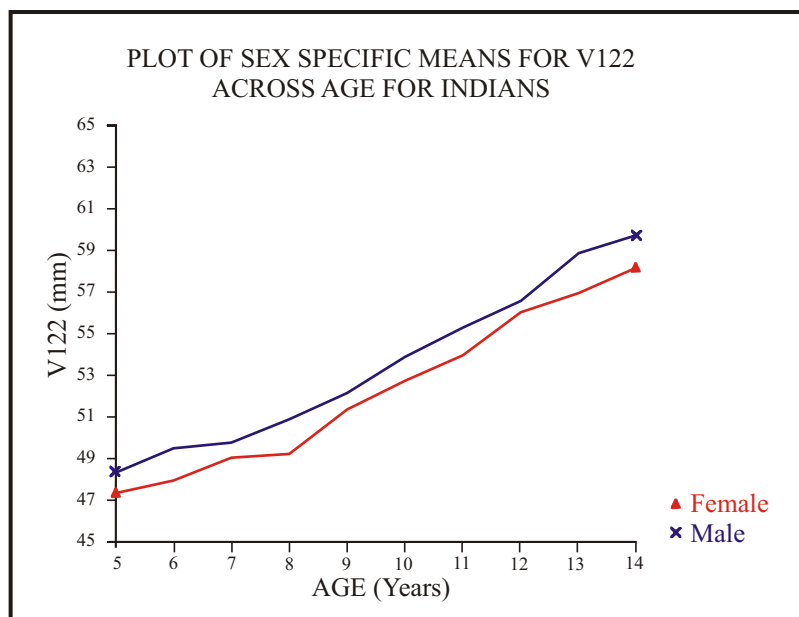
43-8

Male Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis	
5	15	45.803	50.811	48.360	1.4801	-.167	-.628	*
6	22	46.148	52.758	49.591	1.9471	-.133	-.976	**
7	20	45.454	54.188	49.880	2.1972	-.157	-.060	
8	23	47.587	54.865	51.055	2.2339	.144	-1.193	**
9	23	48.332	55.636	52.382	1.9662	-.400	-.591	
10	21	49.662	57.373	54.205	2.0348	-.583	-.380	*
11	21	51.687	59.425	55.682	1.9462	-.326	-.195	
12	18	54.109	59.534	57.028	1.4065	-.305	-.306	
13	21	55.447	65.141	59.438	2.3951	.423	-.050	**
14	10	56.242	63.054	60.349	2.2076	-.660	-.796	

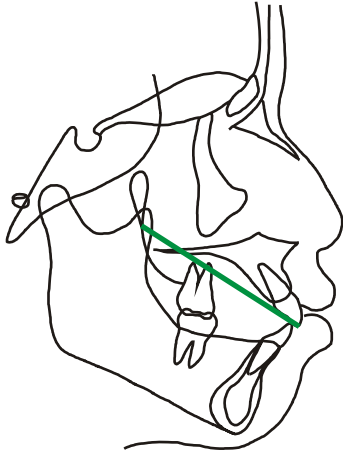
Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis	
5	14	44.713	50.570	47.330	1.6923	.226	-.876	
6	20	43.860	51.393	47.966	2.1071	-.094	-.480	
7	23	44.576	53.335	49.118	2.4650	-.214	-.937	
8	23	45.290	54.349	49.307	2.4074	-.009	-.455	
9	21	45.831	56.618	51.551	2.4908	-.212	.328	
10	18	49.301	57.830	52.998	2.0615	.234	.244	
11	22	48.330	59.033	54.287	2.6040	-.251	-.084	
12	22	52.678	60.423	56.458	2.2953	.252	-.939	
13	20	49.642	62.407	57.426	3.2072	-.353	.065	
14	11	50.160	64.449	58.711	3.6953	-.820	.951	



LINEAR MEASUREMENT

VARIABLE 123



**Pterygo-Maxillary Fissure,
Inferior-Upper Incisor Incisal
Edge**

PTM-UIE

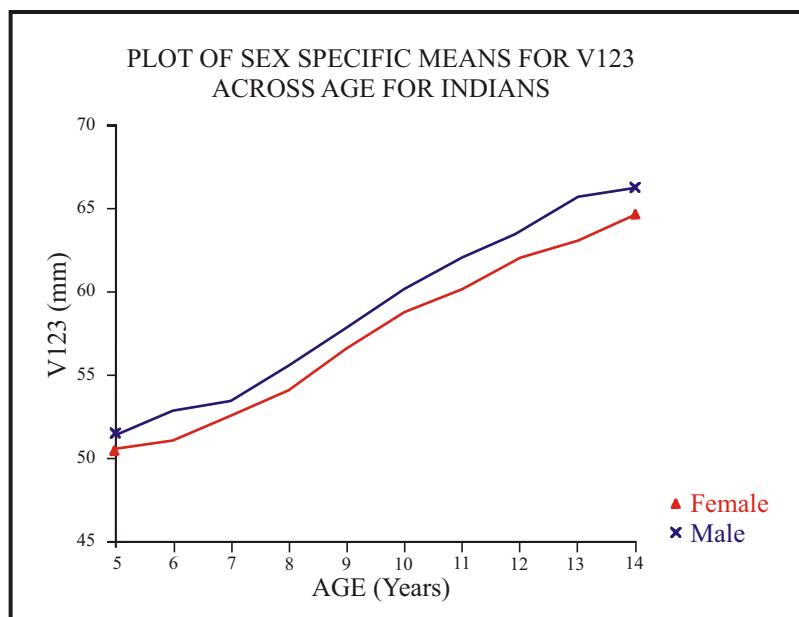
43-7

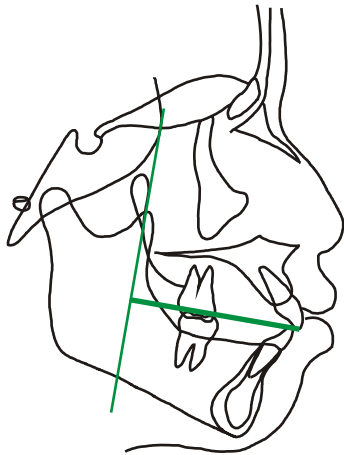
Male Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	14	47.115	53.754	51.295	1.6768	-.892	.955
6	21	47.737	56.547	52.852	2.2918	-.148	-.570 **
7	18	48.315	57.290	53.466	2.2433	-.420	-.173
8	22	50.553	60.939	55.395	2.7105	.099	-.593
9	22	51.908	61.805	58.088	2.7008	-.740	-.333
10	21	56.147	65.646	60.534	2.5540	.163	-.631
11	21	57.208	67.371	62.522	2.4654	.020	.032
12	19	59.013	68.333	63.833	2.3204	-.057	-.082
13	21	61.024	72.053	66.346	2.5326	.402	.168 **
14	10	63.127	70.044	66.915	2.8220	-.304	-1.442

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	46.645	55.495	50.446	2.3446	.357	-.381
6	19	45.346	56.059	50.972	2.3991	.032	.488
7	22	47.469	56.236	52.535	2.4524	-.322	-.696
8	23	48.888	60.075	54.141	3.0360	.150	-.566
9	22	49.119	63.607	56.779	3.3899	-.135	.021
10	18	53.730	65.206	59.069	2.5459	.286	.662
11	22	54.431	67.094	60.521	3.1645	.166	-.262
12	23	55.211	68.004	62.499	3.1058	.049	-.073
13	20	57.573	69.661	63.581	3.3128	.275	-.544
14	11	57.846	71.156	65.238	3.4745	-.313	.406





LINEAR MEASUREMENT VARIABLE 124

**Upper Incisor Incisal Edge
perpendicular to PM Vertical**

UIE_⊥SE-PTM

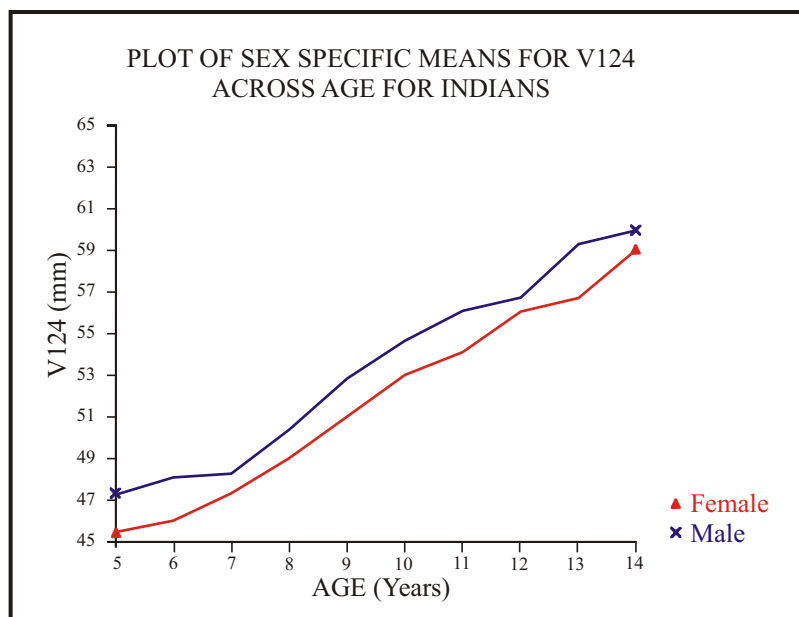
7_⊥36-43

Male Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis	
5	14	43.094	53.176	47.342	2.8751	.197	-.462	*
6	21	42.744	52.648	48.220	2.7138	-.201	-.477	**
7	18	44.327	53.066	48.409	2.4704	.254	-.825	
8	22	43.653	57.684	50.626	3.4120	.097	-.407	*
9	21	48.727	58.192	53.204	2.9762	.035	-1.288	
10	21	48.363	61.206	55.115	3.5651	-.389	-.764	
11	21	48.516	61.277	56.626	3.4924	-.577	-.305	
12	19	50.745	61.750	57.293	3.3300	-.536	-.985	
13	21	52.223	67.338	59.992	3.6623	-.351	.279	**
14	10	54.481	65.616	60.698	4.2643	-.469	-1.361	

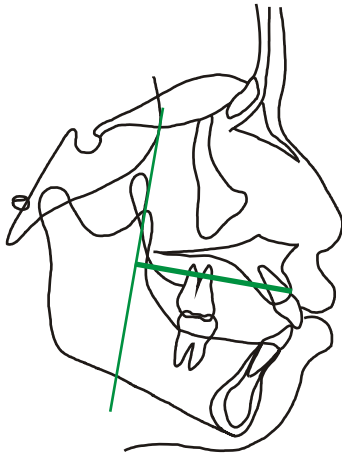
Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis	
5	15	40.891	48.484	45.461	2.1650	-.609	-.514	
6	19	39.367	50.768	46.038	2.8951	-.295	-.207	
7	22	40.873	51.958	47.419	3.0406	-.509	-.617	
8	23	44.301	55.195	49.189	2.8841	-.156	-.537	
9	22	45.178	55.902	51.286	2.9709	-.212	-.771	
10	18	48.865	57.299	53.392	2.2652	-.011	-.745	
11	22	48.628	59.578	54.545	2.9151	-.209	-.703	
12	23	49.652	62.400	56.588	3.1466	-.415	-.151	
13	20	50.881	62.280	57.275	2.9716	-.034	-.480	
14	10	57.172	63.142	59.721	2.1279	.653	-1.033	



LINEAR MEASUREMENT

VARIABLE 125



**Supradentale perpendicular to
PM Vertical**

SD_⊥SE-PTM

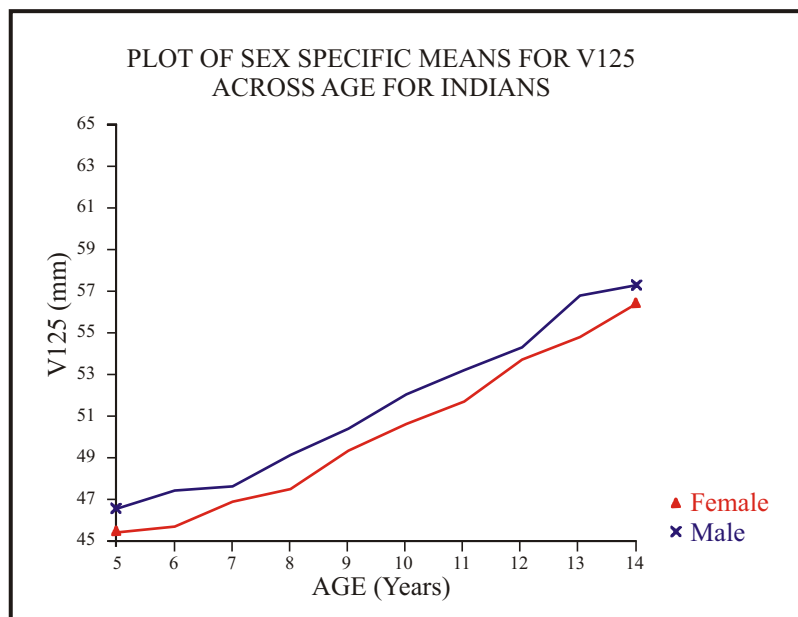
8_⊥36-43

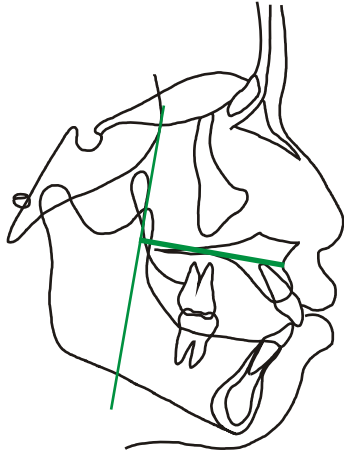
Male Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis	
5	15	43.532	49.791	46.683	1.8677	-.062	-1.089	**
6	22	43.917	50.380	47.599	2.0943	-.263	-1.075	**
7	20	43.831	52.732	47.809	2.1813	.266	.050	
8	23	44.877	53.582	49.392	2.5453	-.256	-.882	**
9	23	45.753	53.997	50.720	2.3071	-.532	-.409	
10	21	46.080	55.991	52.450	2.6777	-.849	-.119	*
11	21	48.398	56.647	53.673	2.3979	-.837	-.006	
12	19	51.063	58.646	54.824	2.1380	-.301	-.833	
13	20	52.439	62.570	57.436	2.4530	.400	.240	**
14	10	52.835	61.832	57.975	3.0053	-.460	-1.021	

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis	
5	15	41.887	48.770	45.485	1.8486	-.266	-.416	
6	20	40.947	50.305	45.780	2.3113	-.057	-.163	
7	23	41.387	51.308	47.036	2.7960	-.350	-.836	
8	23	43.540	52.812	47.674	2.2608	.014	-.295	
9	21	44.824	53.064	49.610	2.2523	-.428	-.442	
10	18	48.211	54.499	50.957	2.0601	.172	-1.283	
11	22	46.042	56.561	52.090	2.4812	-.451	-.043	
12	22	49.707	59.117	54.206	2.3998	-.024	-.680	
13	19	50.245	59.775	55.344	2.5212	-.024	-.625	
14	10	53.612	60.787	57.069	2.4075	.302	-1.086	





LINEAR MEASUREMENT

VARIABLE 126

**A Point perpendicular to PM
Vertical**

A₁SE-PTM

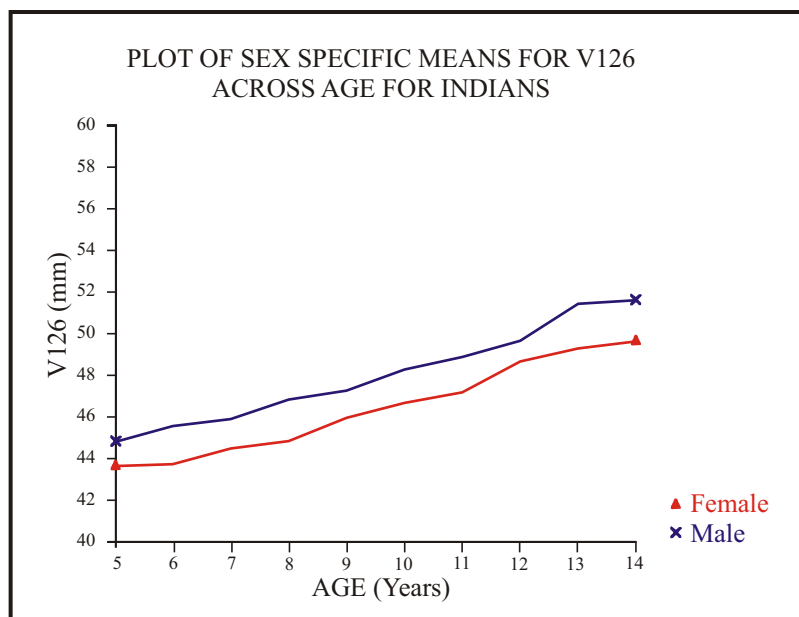
9₁36-43

Male Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis	
5	14	42.532	46.578	44.944	1.1478	-.619	-.459	**
6	22	42.809	47.948	45.748	1.4307	-.653	-.660	**
7	20	42.471	48.793	46.101	1.5604	-.415	-.124	**
8	23	41.853	50.853	47.084	2.3937	-.605	-.335	**
9	22	44.900	49.932	47.536	1.4578	-.209	-.852	**
10	20	45.018	50.770	48.599	1.5629	-.728	-.068	**
11	21	44.309	52.546	49.234	2.1868	-.867	.102	
12	19	46.334	55.134	50.051	2.2783	.235	-.349	
13	20	47.906	56.704	51.917	2.3203	.264	-.605	**
14	10	45.742	55.515	52.097	3.1271	-.820	-.212	

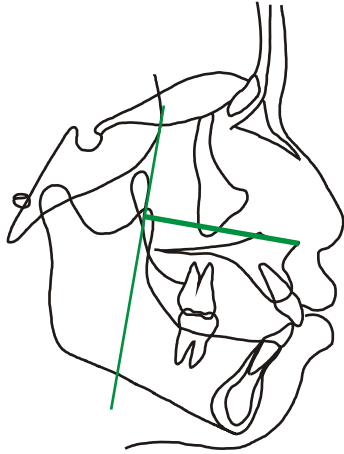
Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis	
5	15	40.016	46.635	43.729	1.7180	-.351	-.239	
6	20	39.690	46.389	43.825	1.7854	-.673	-.273	
7	23	40.602	47.243	44.616	1.8810	-.628	-.416	
8	23	40.891	47.661	44.989	1.7781	-.479	-.434	
9	21	42.406	48.197	46.162	1.5638	-.813	-.011	
10	18	43.090	49.170	46.915	1.7622	-.497	-.625	
11	22	42.419	51.554	47.450	2.0336	-.456	.440	
12	23	43.956	54.031	49.007	2.2201	-.187	.174	
13	19	45.047	52.723	49.664	2.0585	-.364	-.395	
14	11	43.400	53.939	50.021	3.1099	-.733	-.023	



LINEAR MEASUREMENT

VARIABLE 127



**Anterior Nasal Spine
perpendicular to PM Vertical**

ANS₁SE-PTM

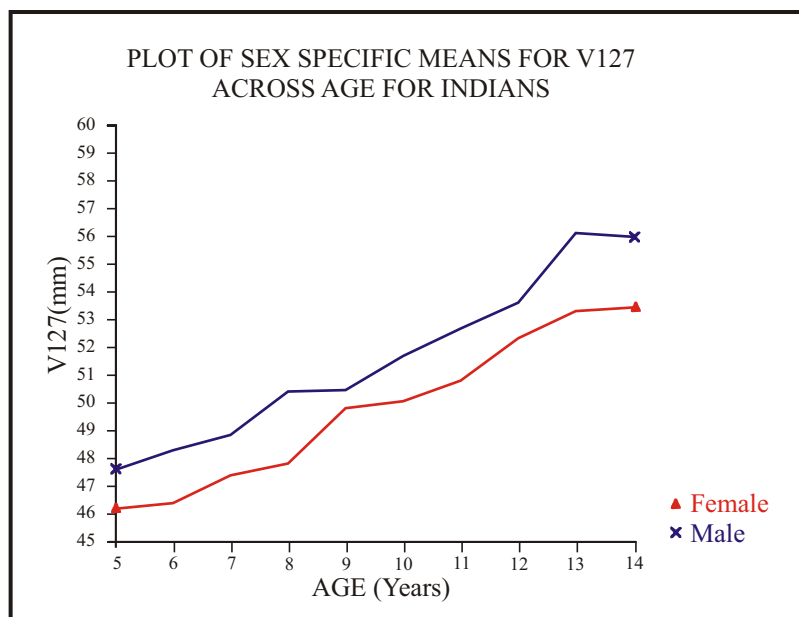
10₁36-43

Male Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis	
5	14	44.923	49.100	47.490	1.2956	-.393	-.828	**
6	22	43.622	51.782	48.122	2.0570	-.556	-.219	**
7	20	45.149	52.194	48.619	1.9360	-.019	-.787	
8	23	44.824	54.096	50.022	2.4811	-.667	-.077	**
9	23	46.007	53.422	50.069	1.7505	-.324	.098	
10	21	46.175	54.755	51.171	2.2610	-.930	.105	**
11	21	47.399	55.531	52.058	2.2492	-.594	-.246	
12	19	47.344	57.253	52.895	2.5951	-.219	-.414	
13	20	50.466	60.336	55.145	2.5197	-.014	-.546	**
14	10	48.312	59.673	55.022	3.5837	-.707	-.581	

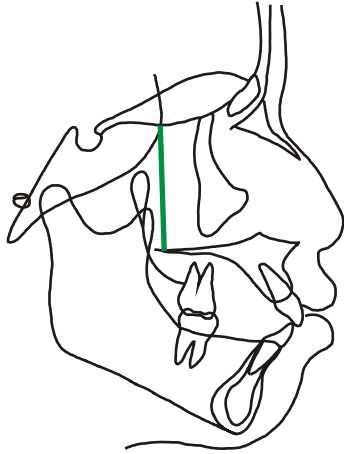
Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	42.990	49.365	46.233	1.7957	-.229	-.667
6	20	41.900	49.006	46.414	2.1284	-.473	-.890
7	23	43.149	51.013	47.312	2.2384	-.187	-.680
8	23	43.437	50.525	47.695	1.9546	-.516	-.719
9	21	45.160	52.273	49.483	1.6078	-.776	.823
10	18	46.276	51.966	49.708	1.7253	-.476	-.895
11	22	45.855	55.405	50.375	2.5253	-.141	-.651
12	23	46.185	54.900	51.744	2.5206	-.775	-.623
13	20	46.284	56.225	52.622	2.7397	-.794	-.093
14	11	46.864	55.718	52.739	3.0872	-.721	-.682



LINEAR MEASUREMENT

VARIABLE 128



Ethmoid Registration Point- Posterior Nasal Spine

SE-PNS

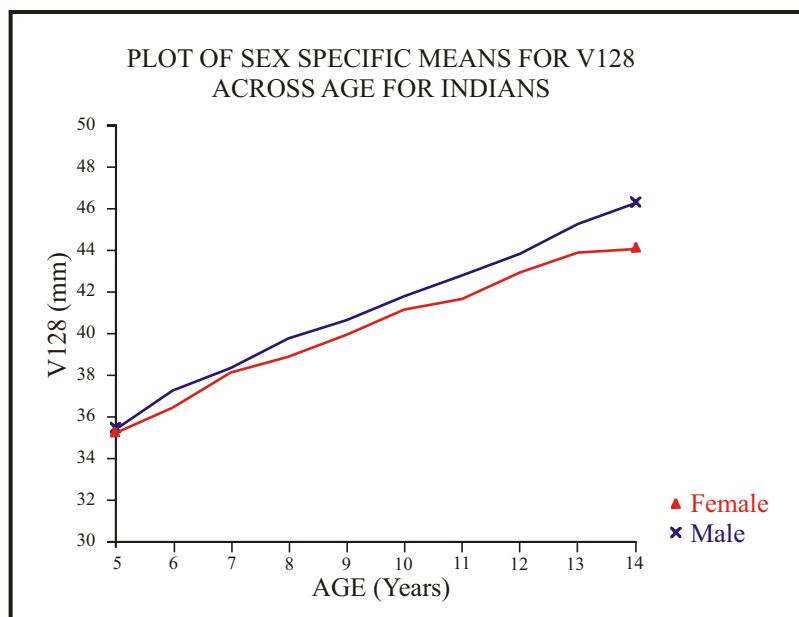
36-45

Male Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	14	31.280	40.316	35.439	2.1165	.267	.826
6	22	33.864	41.794	37.428	1.9434	.166	-.433
7	20	35.041	41.024	38.562	1.8361	-.552	-1.003
8	23	36.354	43.256	40.060	1.8890	-.375	-.681
9	23	38.277	44.383	40.976	1.5780	.357	-.211
10	21	39.356	45.572	42.187	1.9329	.232	-1.145
11	21	39.382	47.283	43.239	2.1437	.006	-.678 **
12	18	40.346	48.190	44.331	1.9667	-.036	-.297
13	21	42.293	50.934	45.835	2.2629	.433	-.537 *
14	10	43.510	50.775	46.892	2.5286	.204	-1.288 *

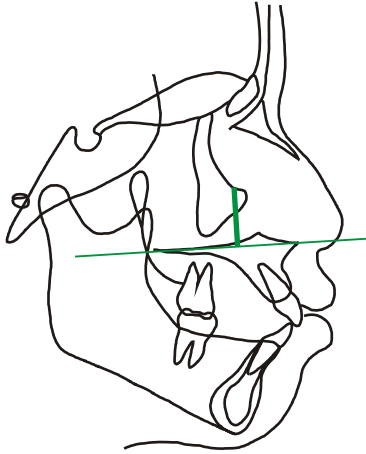
Female Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	15	32.211	40.951	35.268	2.5703	.765	-.343
6	20	30.728	40.012	36.565	2.4943	-.787	-.273
7	23	34.715	43.982	38.333	2.3301	.512	-.050
8	23	34.692	44.725	39.136	2.2899	.206	.208
9	22	35.895	43.160	40.239	2.1951	-.527	-.937
10	19	36.329	46.302	41.514	2.5805	-.265	-.395
11	22	37.867	46.986	42.050	2.3726	.106	-.579
12	23	39.987	48.097	43.389	2.2639	.357	-.821
13	20	38.953	48.832	44.389	2.6789	-.410	-.678
14	11	39.908	48.373	44.569	3.2256	-.261	-1.466



LINEAR MEASUREMENT

VARIABLE 129



**Orbitale perpendicular to
Palatal Plane**

OR_⊥PNS-ANS

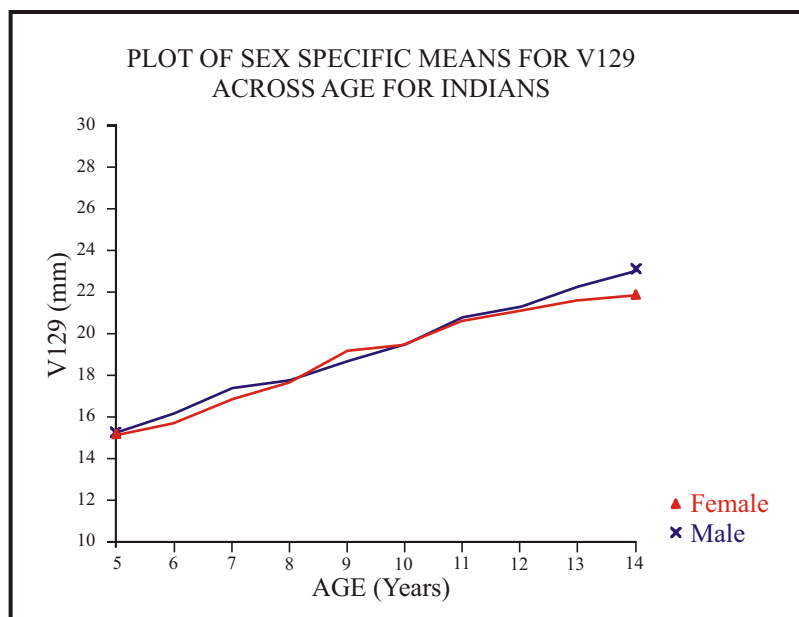
40_⊥45-10

Male Indian

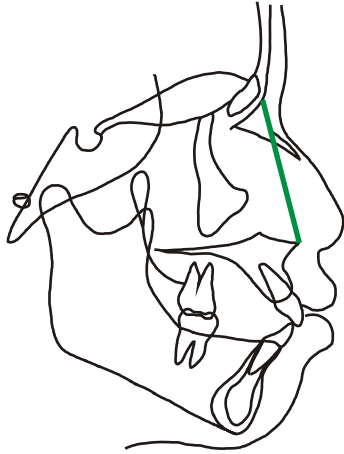
Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	14	10.369	19.012	15.303	2.5813	-.218	-.828
6	22	12.202	19.892	16.204	1.7864	.047	.042
7	20	14.570	20.854	17.363	1.6859	.216	-.771
8	23	14.940	20.776	17.830	1.5681	.248	-.620
9	23	14.957	21.272	18.737	1.5717	-.267	-.238
10	21	16.744	22.433	19.469	1.4216	.192	-.175
11	21	18.095	24.344	20.881	1.7293	.331	-.929
12	19	18.611	25.196	21.400	1.6510	.408	-.264
13	20	19.480	24.792	22.223	1.5289	-.094	-1.029
14	10	20.644	26.210	22.986	1.7478	.304	-.789

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	12.502	18.593	15.253	1.7172	.087	-.808
6	20	12.260	19.371	15.815	1.6460	-.306	.186
7	23	13.554	19.551	16.883	1.5710	-.243	-.698
8	23	15.074	20.646	17.731	1.6423	-.182	-1.107
9	22	15.817	22.069	19.027	1.9151	-.376	-.933
10	19	16.598	23.315	19.433	1.7734	.274	-.591
11	22	17.294	24.114	20.665	1.8710	-.143	-.983
12	23	18.007	23.988	21.205	1.7210	-.057	-.950
13	20	17.717	24.566	21.658	1.9666	-.222	-1.077
14	11	19.526	24.744	21.999	1.7582	-.010	-1.265



LINEAR MEASUREMENT VARIABLE 130



Anterior Nasal Spine-Nasion

ANS-N

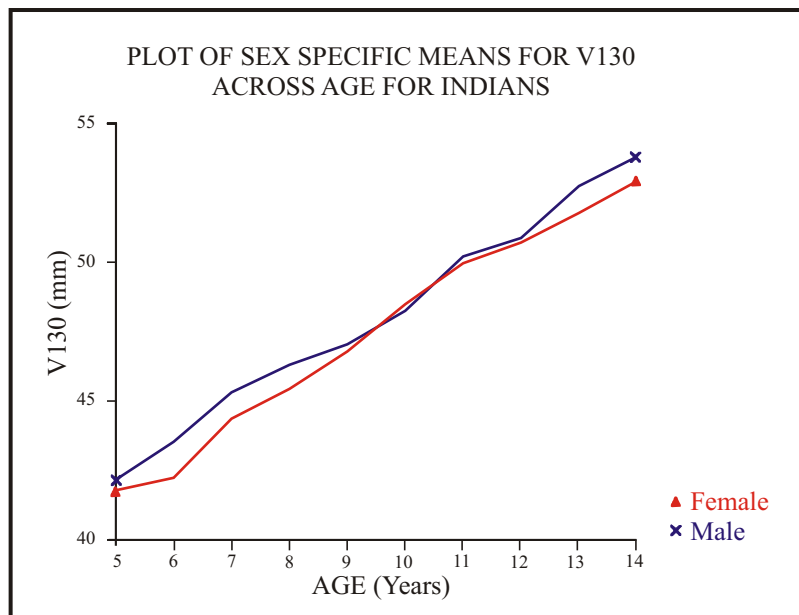
10-38

Male Indian

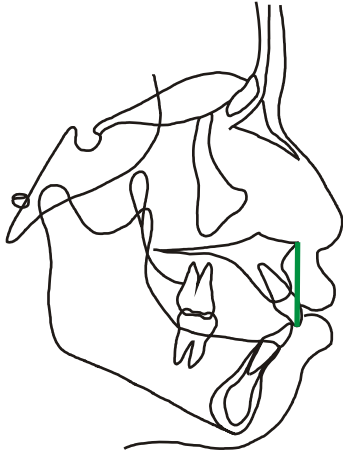
Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	40.189	45.528	42.368	1.9355	.342	-1.476
6	22	40.692	48.833	43.805	2.3621	.575	-.542
7	20	40.698	50.434	45.676	2.7493	.022	-1.042
8	22	43.505	51.565	46.717	2.3208	.556	-.695
9	22	43.637	52.024	47.494	2.1816	.189	-.651
10	21	45.292	53.769	48.761	2.5338	.402	-.892
11	21	45.834	58.043	50.818	3.1438	.237	-.418
12	19	46.892	56.302	51.517	2.5402	-.083	-.575
13	21	49.658	59.197	53.482	2.6612	.380	-.830
14	10	50.519	58.733	54.592	2.7391	-.006	-1.166

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	37.066	45.220	41.968	2.3499	-.277	-.658
6	20	38.053	46.789	42.442	2.5879	.268	-.984
7	23	39.632	48.332	44.680	2.2740	-.395	-.688
8	23	41.323	50.580	45.806	2.5503	.300	-.842
9	22	41.473	52.498	47.224	2.7080	-.017	-.262
10	18	44.012	53.015	49.010	2.6387	-.283	-.980
11	21	46.155	54.737	50.561	2.1149	-.068	-.178
12	23	46.358	56.442	51.345	2.5705	.089	-.365
13	20	47.936	57.193	52.464	2.8697	.129	-1.241
14	11	49.704	58.731	53.666	2.6162	.462	-.477



LINEAR MEASUREMENT VARIABLE 131



**Anterior Nasal Spine-Upper
Incisor Incisal Edge**

ANS-UIE

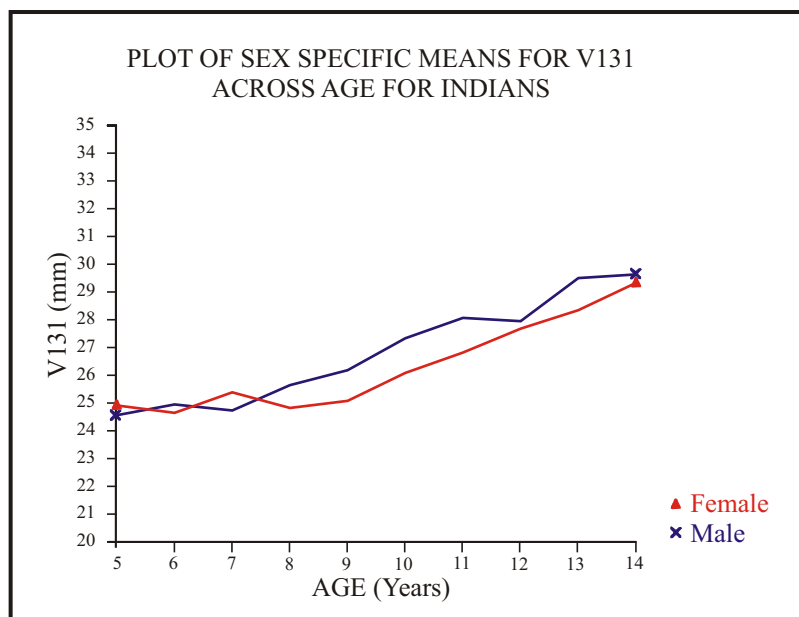
10-7

Male Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	14	22.150	28.118	24.564	1.7619	.563	-.592
6	21	18.196	28.764	24.911	2.6742	-.916	.699
7	18	18.543	28.118	24.716	2.7360	-.814	.099
8	21	17.905	31.555	25.535	2.9681	-.418	.824
9	22	19.484	30.620	26.018	2.6269	-.676	.391
10	21	22.529	32.103	27.050	2.6334	.022	-.600
11	20	24.340	33.045	27.709	2.1985	.894	.331 **
12	18	23.321	31.832	27.603	1.9560	.121	.552
13	21	22.948	35.217	28.996	2.8621	.310	.339
14	10	26.302	33.503	29.114	2.7466	.613	-1.234

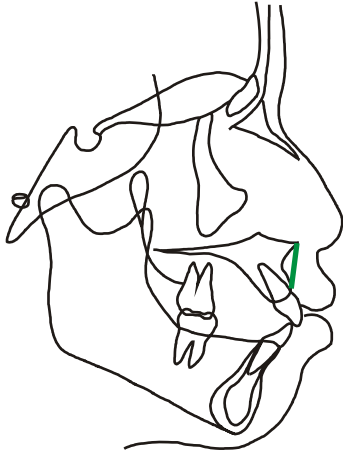
Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	22.328	27.356	24.942	1.5658	-.145	-1.053
6	18	20.904	27.630	24.640	1.4116	-.459	1.599
7	21	22.817	28.778	25.303	1.4892	.613	-.074
8	23	18.927	28.953	24.798	2.4857	-.169	-.129
9	21	20.361	27.926	25.027	1.9806	-.448	-.477
10	19	21.687	30.969	25.930	2.4494	.104	-.575
11	21	21.789	29.498	26.589	2.0098	-.618	-.158
12	22	24.508	30.848	27.361	1.9096	.044	-1.201
13	19	24.382	31.163	27.958	2.0665	-.348	-.761
14	11	25.575	35.219	28.841	2.8977	.966	.142



LINEAR MEASUREMENT

VARIABLE 132



Anterior Nasal Spine-Supradentale

ANS-SD

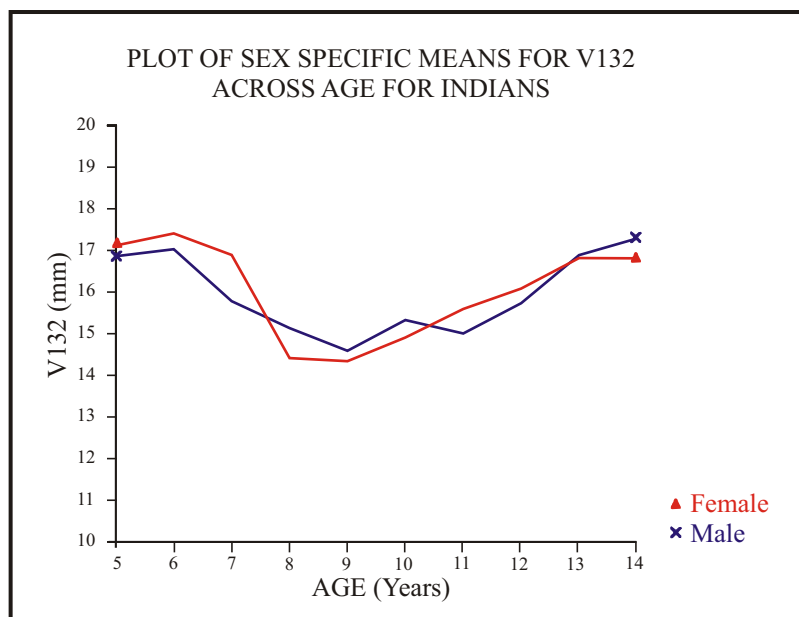
10-8

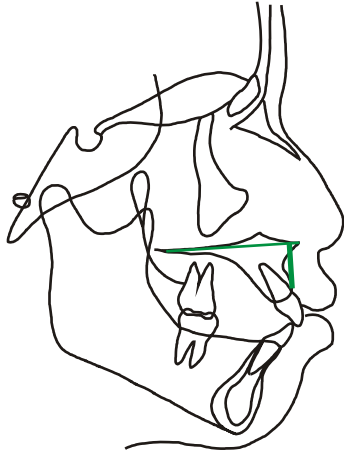
Male Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	13.414	20.498	16.873	1.6775	.147	.347
6	21	11.367	21.298	17.050	2.2762	-.537	.396
7	20	8.3913	20.604	15.739	3.4082	-.615	-.672
8	23	8.1473	23.009	15.060	3.8554	.197	-.661
9	23	10.229	18.067	14.487	2.0635	-.177	-.296
10	21	11.921	19.125	15.263	2.0540	.423	-.666
11	20	11.741	18.378	14.924	1.7295	.351	-.495
12	18	13.334	19.131	15.688	1.4816	.657	-.210
13	21	12.772	22.327	16.901	2.4815	.469	-.560
14	10	14.293	21.777	17.321	2.5133	.551	-1.129

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	14.472	19.091	17.144	1.5464	-.237	-1.291
6	19	15.223	21.415	17.448	1.4606	.973	.951
7	23	12.805	21.597	16.905	2.4582	-.141	-.924
8	23	10.164	17.758	14.303	2.2377	-.048	-.840
9	22	10.072	19.903	14.225	2.3557	.273	-.194
10	19	11.785	18.880	14.822	2.0099	.192	-.888
11	22	11.363	20.186	15.542	1.8714	.356	.793
12	22	13.296	19.422	16.057	1.5399	.304	-.509
13	19	14.175	20.325	16.827	1.5891	-.036	-.263
14	10	14.938	19.600	16.820	1.5303	.689	-.605





LINEAR MEASUREMENT

VARIABLE 133

Supradentale perpendicular to Palatal Plane

SD_LANS-PNS

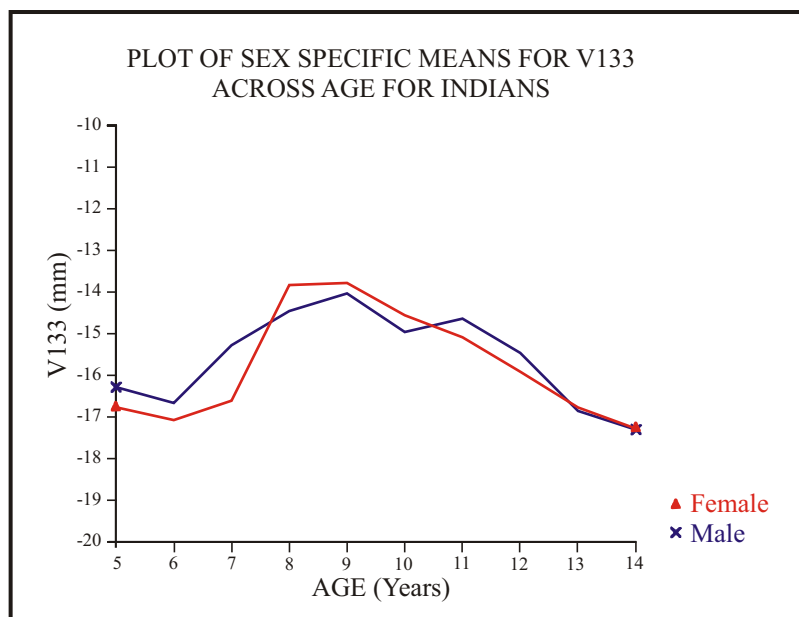
8_L10-45

Male Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	14	-20.381	-12.692	-16.312	1.7476	-.375	1.124
6	21	-20.565	-11.189	-16.653	2.1294	.671	.651
7	20	-20.028	-7.8955	-15.409	3.3502	.680	-.507
8	23	-22.500	-8.0014	-14.672	3.7665	-.143	-.647
9	23	-17.606	-9.8539	-14.293	2.0407	.290	-.138
10	21	-18.976	-11.732	-15.124	2.0313	-.327	-.766
11	20	-18.374	-11.562	-14.836	1.7400	-.340	-.465
12	18	-19.104	-13.325	-15.575	1.4391	-.805	.174
13	21	-22.172	-12.762	-16.825	2.4737	-.431	-.637
14	10	-21.762	-14.293	-17.228	2.4943	-.603	-1.048

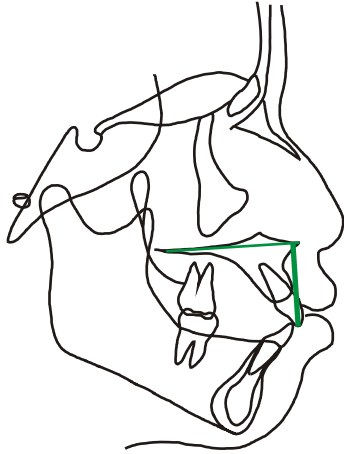
Female Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	15	-18.557	-14.334	-16.746	1.4346	.185	-1.256
6	19	-21.271	-15.111	-17.022	1.4567	-1.345	1.848
7	23	-21.461	-12.464	-16.604	2.4929	.128	-.819
8	23	-17.742	-9.9692	-14.112	2.2734	.037	-.872
9	22	-19.902	-9.6501	-14.067	2.4372	-.245	-.201
10	19	-18.821	-11.568	-14.763	2.0132	-.181	-.855
11	21	-18.116	-11.201	-15.238	1.5865	.319	.619
12	22	-19.184	-13.285	-15.980	1.5206	-.281	-.635
13	19	-20.181	-14.133	-16.750	1.5553	.013	-.262
14	11	-22.826	-14.786	-17.205	2.3672	-1.320	.842



LINEAR MEASUREMENT

VARIABLE 134



**Upper Incisor Incisal Edge
perpendicular to Palatal
Plane**

UIE_⊥ANS-PNS

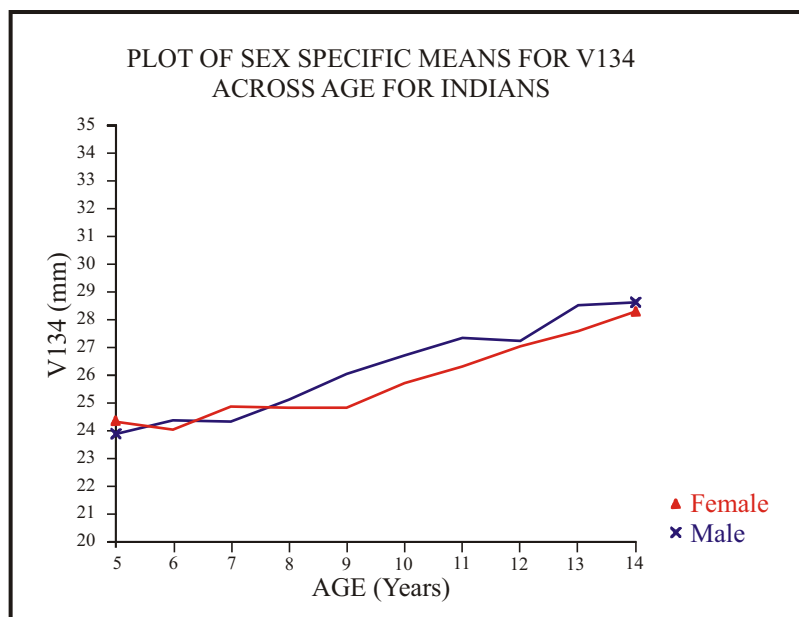
7_⊥10-45

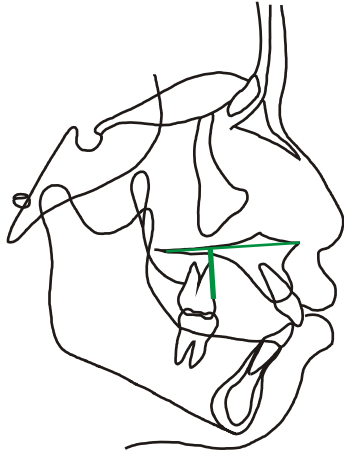
Male Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	13	21.699	27.867	23.931	1.7548	.791	.065
6	21	18.017	27.783	24.455	2.5634	-1.048	.898
7	18	18.459	27.887	24.408	2.6381	-.898	.289
8	21	17.826	30.557	25.234	2.7555	-.637	1.116
9	21	21.291	30.256	26.211	2.1917	-.408	.140 *
10	21	22.525	31.728	26.911	2.6324	-.066	-.672
11	20	23.485	32.884	27.574	2.2826	.699	.217 **
12	18	23.253	31.708	27.461	1.9764	.214	.386
13	21	22.866	35.071	28.811	2.9135	.209	.166
14	10	26.282	33.465	28.920	2.7768	.650	-1.217

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	21.935	26.579	24.405	1.4800	-.013	-1.158
6	18	20.736	26.905	24.103	1.2945	-.263	1.680
7	21	22.468	27.982	24.976	1.3545	.442	-.213
8	22	21.362	28.939	24.932	2.1635	.370	-.732
9	21	20.360	27.910	24.933	1.9989	-.381	-.599
10	19	21.567	30.789	25.863	2.4356	.081	-.579
11	21	21.726	29.466	26.493	1.9938	-.593	-.122
12	22	24.155	30.758	27.256	1.8828	.020	-1.113
13	19	24.253	30.967	27.831	2.0510	-.321	-.780
14	11	25.419	34.901	28.580	2.8672	.975	.173





LINEAR MEASUREMENT

VARIABLE 135

Upper Molar Mesial Cemento-Enamel Junction perpendicular to Palatal Plane

UMJ \perp ANS-PNS

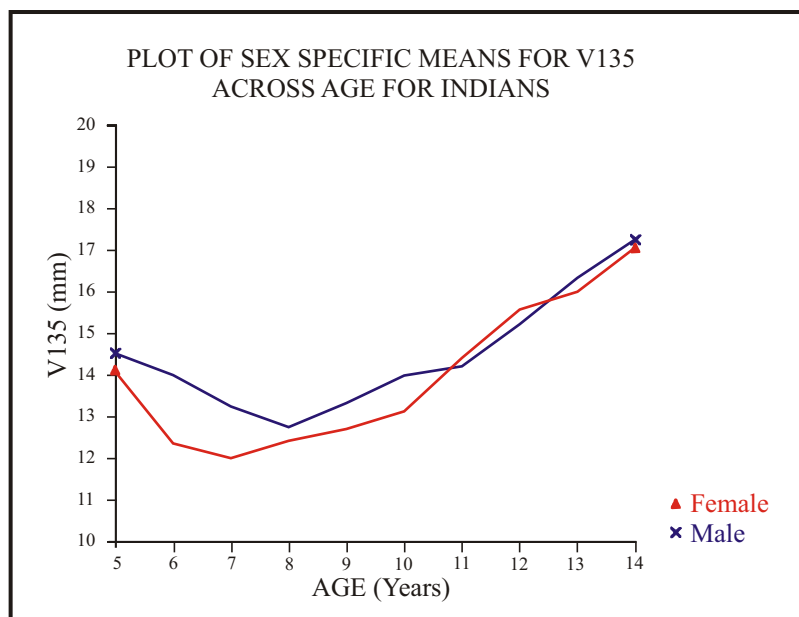
20 \perp 10-45

Male Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	14	11.001	17.009	14.500	1.7498	-.190	-.684
6	22	9.4922	17.611	14.032	2.0848	-.512	-.369
7	20	9.7735	17.325	13.356	2.1180	.049	-.747
8	23	10.172	17.452	12.911	1.8711	.842	.394
9	23	10.547	15.727	13.430	1.3343	-.147	-.343
10	21	10.831	17.487	14.023	1.8949	.094	-.668
11	21	10.983	17.409	14.222	1.8100	-.247	-.810
12	19	12.223	18.483	15.129	1.6259	.397	-.063
13	21	13.943	19.064	16.129	1.4297	.378	-.995
14	10	14.126	21.080	16.957	1.8974	.755	.478

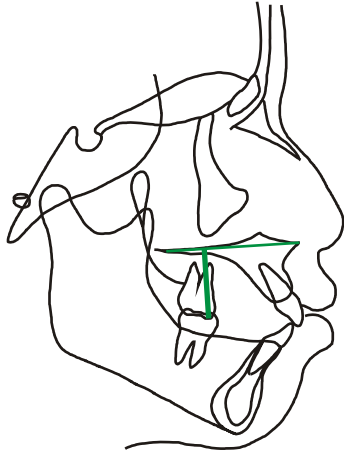
Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	12.567	16.568	14.103	1.3263	.668	-1.045
6	20	7.3196	16.417	12.560	2.6092	-.494	-.871
7	23	8.7360	16.137	12.242	2.2261	.142	-1.112
8	23	8.8083	15.973	12.616	2.0223	-.117	-.678
9	22	10.940	16.297	12.871	1.5883	.813	-.327
10	19	10.859	16.601	13.251	1.5054	.950	.137
11	22	11.126	17.662	14.402	2.0078	.265	-1.107
12	23	12.012	18.830	15.445	1.7291	.271	-.505
13	20	12.922	19.074	15.829	1.6437	.363	-.433
14	11	13.751	19.776	16.782	1.9945	.332	-1.083



LINEAR MEASUREMENT

VARIABLE 136



**Upper Molar Mesial Cusp Tip
perpendicular to Palatal
Plane**

UMT \perp ANS-PNS

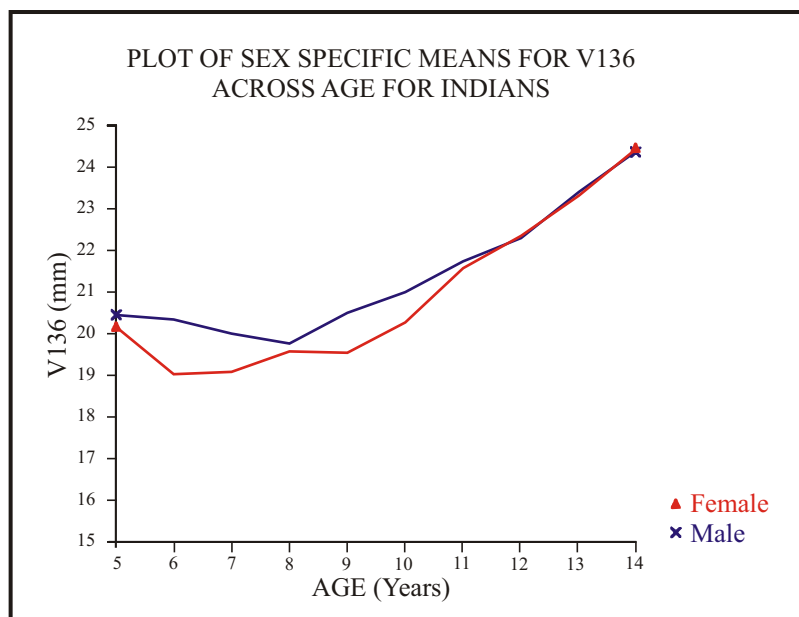
19 \perp 10-45

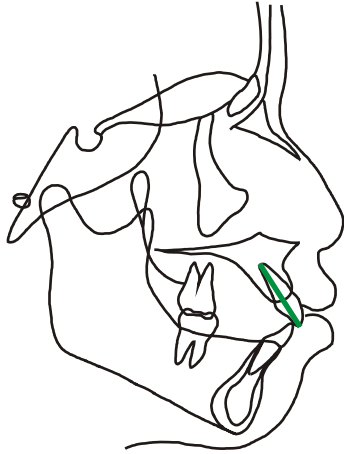
Male Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	14	17.492	22.998	20.468	1.7159	-.052	-1.124
6	22	16.434	23.011	20.354	1.8829	-.573	-.676 *
7	20	15.323	23.709	19.998	2.0664	-.241	-.278
8	23	16.790	23.961	19.748	1.7273	.665	.491
9	23	17.942	22.686	20.522	1.2643	-.115	-.775 **
10	21	17.241	23.720	21.045	1.7488	-.461	-.552
11	21	19.149	24.635	21.822	1.4660	-.139	-.728
12	19	19.336	26.175	22.409	1.5946	.149	.300
13	21	20.192	26.425	23.573	1.4910	-.206	-.112
14	10	21.219	28.287	24.610	1.9065	.224	.121

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	17.791	22.915	20.174	1.4431	.197	-.847
6	20	14.534	22.268	18.974	2.3809	-.381	-1.034
7	23	15.479	22.826	19.033	2.1086	.051	-1.085
8	23	16.618	23.366	19.549	1.8338	.238	-.674
9	22	17.313	23.185	19.515	1.6575	.615	-.406
10	19	17.481	23.924	20.280	1.6762	.782	-.070
11	22	19.100	25.228	21.649	1.9672	.515	-1.025
12	23	18.694	26.185	22.464	1.8695	.190	-.530
13	20	19.625	26.881	23.481	1.9379	-.194	-.271
14	11	20.087	27.996	24.673	2.2537	-.236	-.074





LINEAR MEASUREMENT

VARIABLE 137

**Upper Incisor Incisal Edge-
Upper Incisor Apex**

UIE-UIA

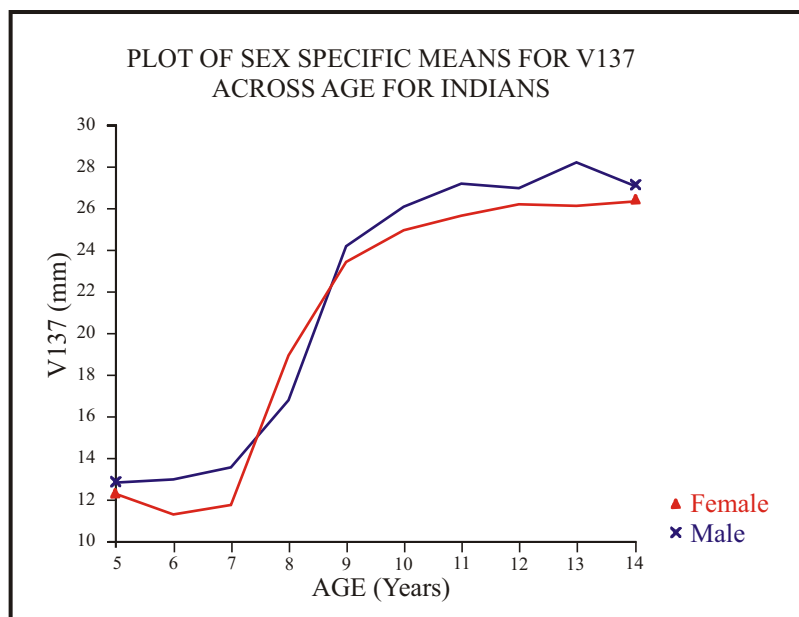
7-12

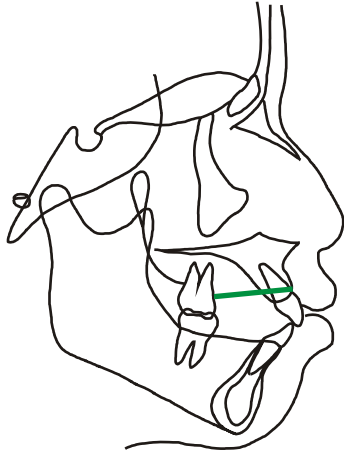
Male Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	14	9.8606	16.002	12.968	1.9572	.291	-1.032
6	21	7.6115	17.430	13.105	2.3763	-.495	-.109 **
7	18	7.4384	21.244	13.625	4.1586	.411	-.594
8	22	7.5583	25.121	16.521	6.1217	-.315	-1.528
9	21	17.795	26.450	23.156	2.1063	-.590	.160
10	20	21.737	27.247	24.858	1.4692	-.399	-.539 *
11	20	23.849	27.462	25.853	.99610	-.032	-.848 **
12	19	21.930	28.098	25.658	1.7775	-.834	-.273
13	21	23.578	29.429	26.769	1.4225	-.213	-.036 **
14	10	23.739	27.668	25.767	1.2236	-.257	-.883

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	14	11.250	13.550	12.481	.83395	-.151	-1.414
6	19	7.6129	13.991	11.595	1.7608	-.682	-.452
7	22	6.2073	23.356	12.004	5.0158	1.237	.311
8	23	6.2172	24.339	18.450	5.9724	-1.001	-.539
9	21	15.148	26.880	22.478	2.7332	-.967	1.142
10	18	21.903	26.462	23.844	1.4501	.388	-1.081
11	21	21.655	28.144	24.471	1.9967	.153	-1.174
12	22	21.453	28.364	24.963	1.8178	.066	-.619
13	20	20.528	27.756	24.896	2.1246	-.305	-.927
14	11	21.720	27.454	25.083	1.6693	-.725	-.359





LINEAR MEASUREMENT VARIABLE 138

Supradentale-Upper Molar Mesial Cemento-Enamel Junction

SD-UMJ

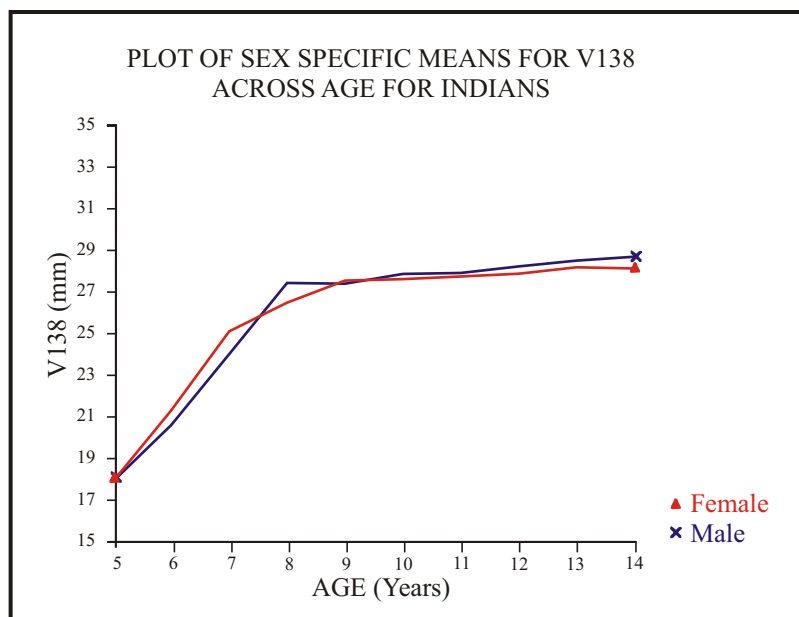
8-20

Male Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	15.985	21.153	18.073	1.2799	.665	.641
6	22	14.306	29.025	20.902	4.2423	.554	-1.009
7	20	16.675	29.456	24.477	4.6546	-.706	-1.200
8	22	24.710	31.098	28.069	1.4819	-.052	.055 *
9	22	26.808	30.789	28.032	1.0052	1.035	.831
10	21	26.429	30.357	28.525	1.2247	-.028	-1.290
11	21	26.981	30.677	28.574	1.0389	.397	-.506
12	19	26.423	31.033	28.904	1.1966	.259	-.244
13	21	27.375	32.824	29.197	1.6130	.599	-.691
14	10	26.730	31.440	29.394	1.2987	-.410	.173

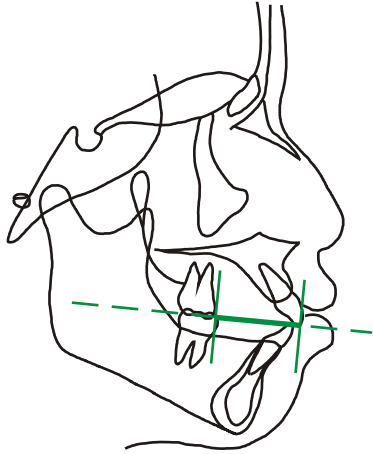
Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	14	16.383	20.170	18.079	1.2396	.289	-1.088
6	20	15.217	31.176	21.643	4.7308	.514	-1.109
7	23	15.497	31.658	25.626	4.5389	-.893	-.375
8	23	24.250	29.622	27.076	1.5826	-.042	-1.066
9	22	23.222	31.772	28.188	2.1147	-.607	.063
10	19	24.466	30.200	28.263	1.4874	-.944	.580
11	22	23.327	32.096	28.397	2.3974	-.425	-.506
12	23	24.783	31.632	28.536	1.9751	-.189	-.988
13	20	24.319	32.284	28.860	2.2344	-.145	-.806
14	11	24.748	30.970	28.800	2.1647	-.772	-.792



LINEAR MEASUREMENT

VARIABLE 139



**Upper Molar Mesial Contact
Point perpendicular to Upper
Incisor Incisal Edge
on Downs Occlusal Plane**

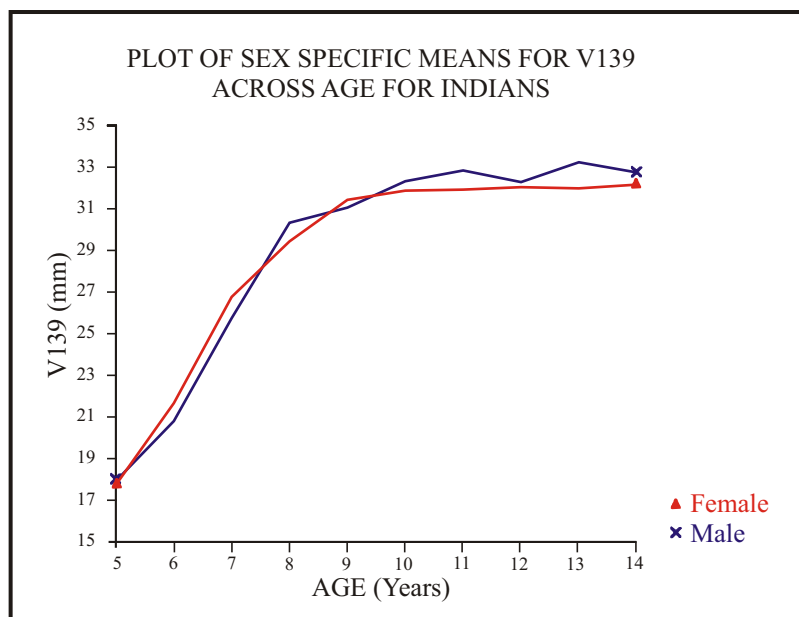
**ADP-PDP ⊥ UMC- 56-57 ⊥ 55-
ADP-PDP ⊥ UIE 56-57 ⊥ 7**

Male Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	14	16.497	20.719	18.068	1.3205	.702	-.752
6	21	15.793	30.788	20.642	4.5213	.850	-.552
7	18	15.378	30.510	25.081	5.0074	-.878	-.781
8	22	25.382	32.061	29.192	1.7204	-.184	-.291
9	22	25.387	33.312	29.844	2.0150	-.364	-.324
10	21	28.437	34.522	30.981	1.8971	.302	-1.043
11	20	28.760	34.276	31.445	1.4797	.373	-.603
12	19	28.577	33.405	30.945	1.4096	.137	-.948
13	21	28.145	35.122	31.799	1.8384	-.273	-.352 *
14	10	25.905	34.177	31.360	2.3564	-1.087	1.009

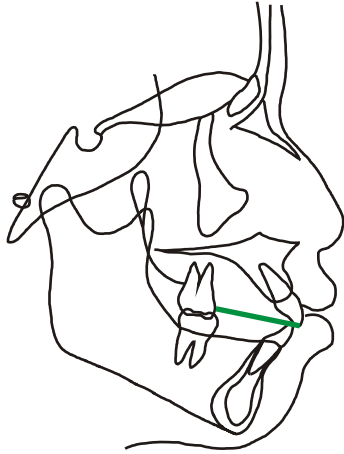
Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	14	15.471	19.522	17.900	1.3334	-.379	-1.261
6	19	15.759	31.604	21.415	5.1960	.605	-1.163
7	22	15.526	33.857	25.997	5.0351	-.761	-.531
8	23	24.406	31.792	28.391	1.9377	-.538	-.621
9	22	24.868	36.216	30.179	2.6493	-.159	.350
10	19	26.399	32.636	30.576	1.9242	-1.002	-.122
11	22	26.017	34.809	30.620	2.6423	-.263	-.922
12	23	27.181	35.234	30.726	2.4053	.258	-1.135
13	20	27.026	34.376	30.674	2.3032	.022	-1.230
14	11	27.992	33.419	30.835	1.8794	-.360	-1.096



LINEAR MEASUREMENT

VARIABLE 140



**Upper Incisor Incisal Edge-
Upper Molar Mesial Contact
Point**

UIE-UMC

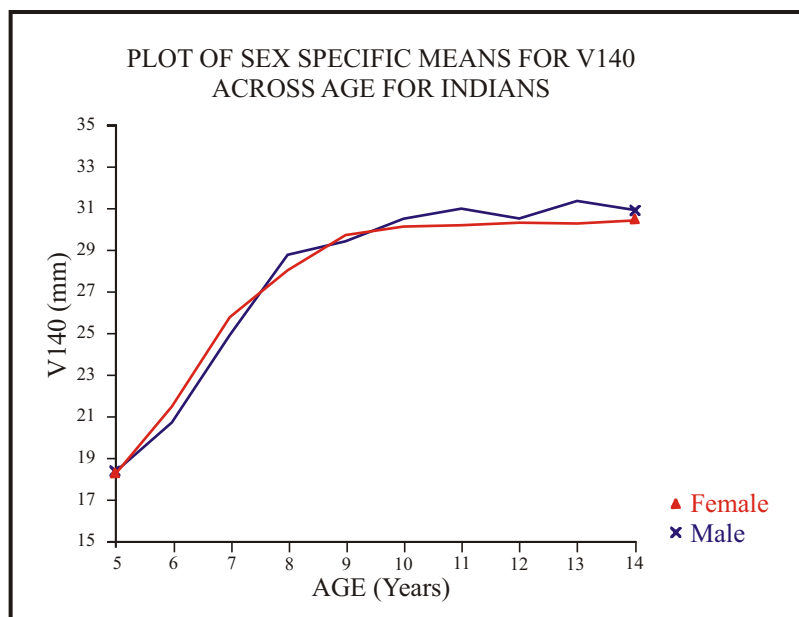
7-55

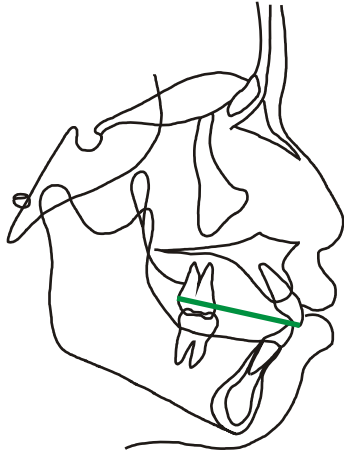
Male Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	14	16.663	20.988	18.285	1.3158	.706	-.620
6	21	15.943	30.829	20.838	4.4918	.836	-.576
7	18	15.599	30.626	25.249	4.9585	-.883	-.765
8	22	25.546	32.130	29.299	1.6916	-.168	-.287
9	22	25.426	33.524	29.981	2.0324	-.377	-.279
10	21	28.590	34.777	31.118	1.9041	.333	-1.017
11	20	28.923	34.380	31.629	1.4789	.354	-.608
12	19	28.793	33.554	31.131	1.4317	.165	-1.045
13	21	28.511	35.375	32.017	1.8354	-.236	-.368 *
14	10	26.203	34.393	31.555	2.3424	-1.025	.853

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	14	15.795	20.060	18.148	1.3623	-.245	-1.332
6	19	16.146	31.743	21.642	5.1391	.610	-1.154
7	22	15.758	33.938	26.149	4.9723	-.762	-.520
8	23	24.650	31.929	28.517	1.8942	-.511	-.596
9	22	25.062	36.408	30.294	2.6499	-.143	.405
10	19	26.598	32.817	30.724	1.9178	-1.000	-.124
11	22	26.140	34.898	30.791	2.6300	-.271	-.891
12	23	27.413	35.342	30.919	2.3782	.263	-1.141
13	20	27.289	34.859	30.878	2.3151	.049	-1.199
14	11	28.042	33.558	31.034	1.8456	-.430	-1.027





LINEAR MEASUREMENT

VARIABLE 141

**Upper Incisor Incisal Edge-
Upper Molar Distal Contact
Point**

UIE-UDC

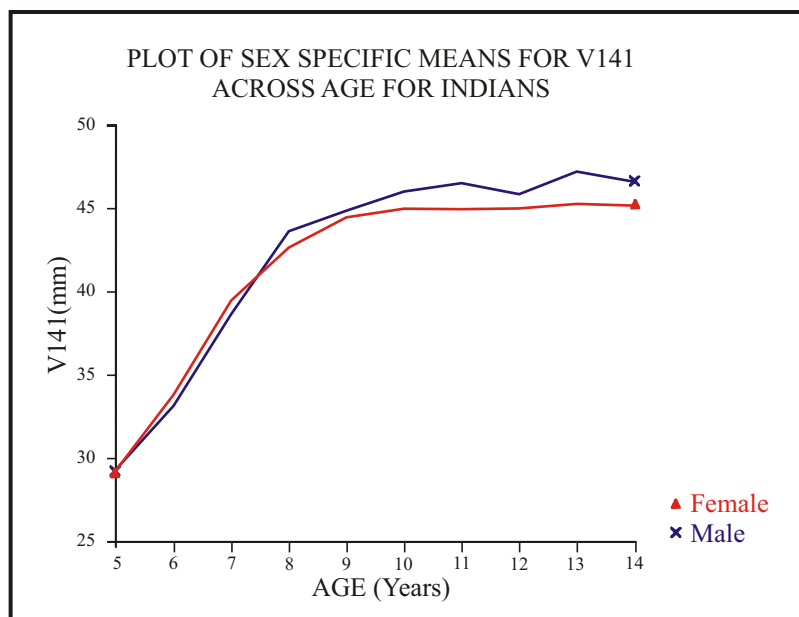
7-22

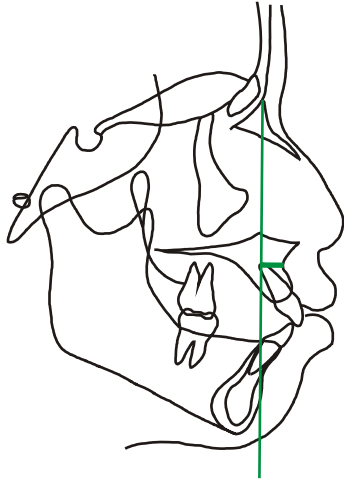
Male Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	14	26.029	31.816	29.022	1.5370	-.036	-.314
6	21	27.546	44.217	32.448	5.1491	.957	-.452
7	18	26.950	44.151	37.384	5.7414	-.794	-.934
8	22	38.452	44.476	41.850	1.4952	-.346	-.317
9	22	39.334	46.924	42.957	2.0409	-.078	-.824
10	21	41.052	47.805	43.990	1.8708	.199	-.880
11	20	42.336	47.506	44.442	1.5015	.592	-.748 **
12	19	41.088	46.439	43.847	1.6975	-.049	-1.386
13	21	41.759	48.128	45.064	2.1119	-.306	-1.354 **
14	10	40.395	48.155	44.515	2.3641	-.059	-.668

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	25.560	33.735	28.969	2.1390	.434	-.220
6	19	26.549	43.911	33.048	5.8554	.669	-1.058
7	22	27.578	45.401	38.120	5.3034	-.836	-.587
8	23	37.061	46.126	40.970	2.1972	.009	-.201
9	22	37.706	48.675	42.599	2.7072	.092	.239
10	19	38.712	45.945	43.065	2.1790	-.572	-.647
11	22	38.325	47.377	43.039	2.7479	-.190	-1.037
12	23	39.654	48.116	43.079	2.5902	.474	-1.166
13	20	39.171	48.427	43.324	2.5122	.212	-.988
14	11	39.659	46.709	43.232	2.0881	-.126	-.895





LINEAR MEASUREMENT VARIABLE 142

**A Point perpendicular to
Nasion-Pogonion
Ricketts Analysis**

A ⊥ N-PG

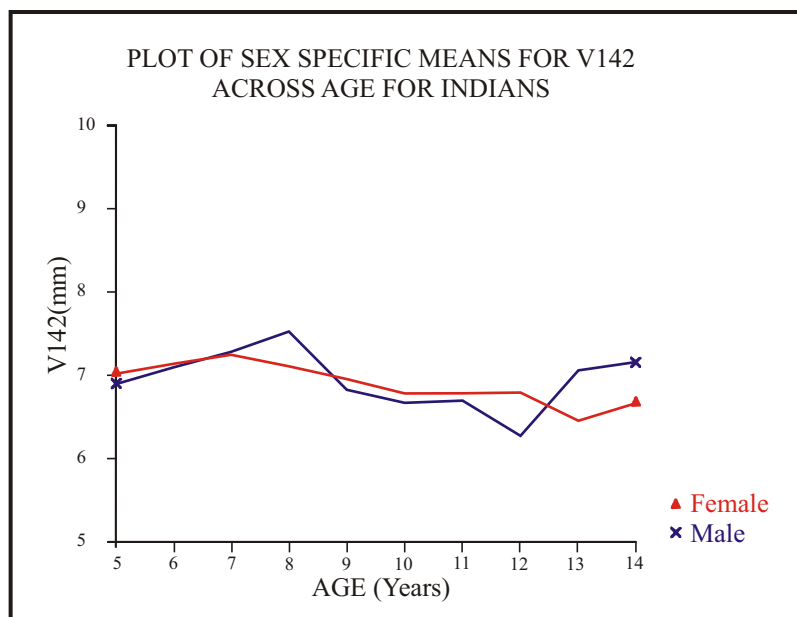
9 ⊥ 38-3

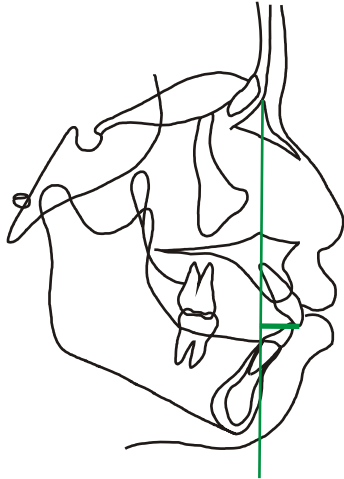
Male Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	14	5.2895	9.0188	6.8843	1.2011	.501	-.965
6	22	5.0456	9.6639	7.0964	1.4542	.147	-1.238
7	20	4.7690	9.8866	7.2933	1.6550	.173	-1.315
8	23	4.8164	11.137	7.5497	1.8758	.511	-.724
9	23	3.6727	10.012	6.8150	1.7026	.245	-.733
10	21	3.3791	10.338	6.6505	1.8773	.249	-.685
11	21	3.8491	10.434	6.6784	2.0018	.216	-1.070
12	19	3.3926	10.281	6.2343	2.0822	.535	-.880
13	21	4.0301	11.700	7.0598	2.1995	.472	-.693
14	10	4.6258	11.047	7.1656	1.9041	.683	-.228

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	5.1561	10.021	7.0159	1.3816	.718	-.276
6	20	4.4810	9.4319	7.1419	1.4175	-.047	-.794
7	23	4.8841	10.034	7.2568	1.3547	.047	-.550
8	23	4.8060	9.3484	7.1112	1.3532	-.104	-1.123
9	22	4.3448	10.376	6.9500	1.5160	.003	-.394
10	19	3.2958	10.496	6.7690	1.6845	.444	.517
11	22	3.9912	9.6989	6.7709	1.5811	-.220	-.619
12	23	4.2885	9.8751	6.7801	1.6038	.380	-.880
13	20	3.4776	10.547	6.4245	2.1678	.610	-.625
14	11	1.9520	10.326	6.6471	2.7677	-.303	-1.129





LINEAR MEASUREMENT

VARIABLE 143

**Upper Incisor Incisal Edge
perpendicular to Nasion-
Pogonion**

UIE ⊥ N-PG

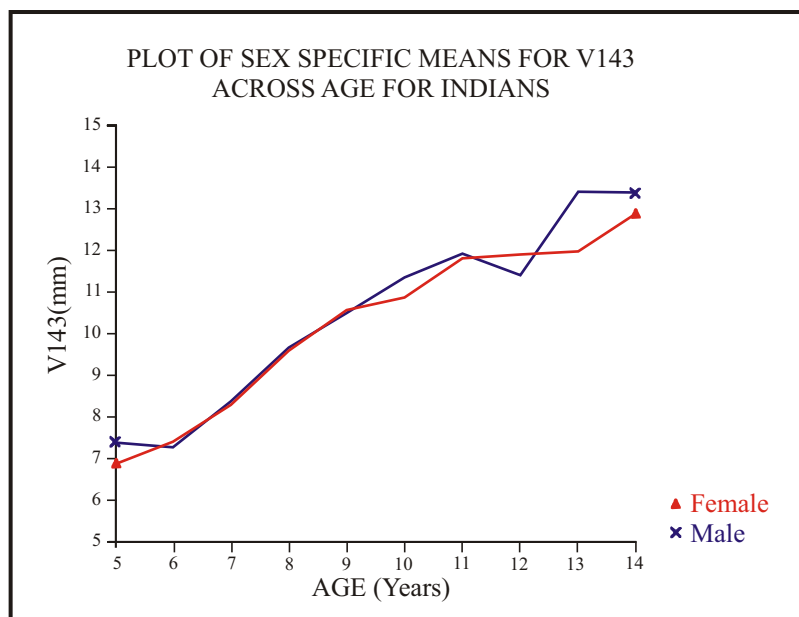
9 ⊥ 38-3

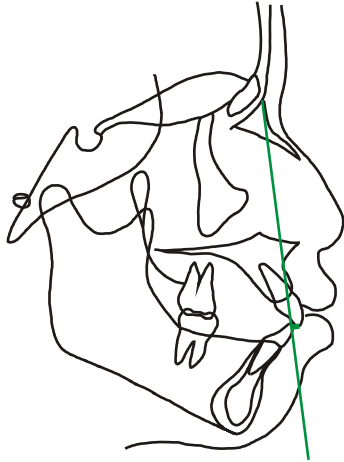
Male Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	14	4.5629	10.963	7.4391	1.7549	.314	-.516
6	21	3.6265	11.050	7.6199	2.0878	-.371	-.888
7	18	5.4632	12.849	8.4793	1.8856	.781	.037
8	22	5.1713	14.291	9.8345	2.0126	.180	.626
9	22	4.1655	16.574	10.707	2.9149	-.139	-.085
10	21	7.0971	17.052	11.605	2.6262	.217	-.560
11	21	7.1030	16.784	12.205	2.3726	.067	-.160
12	19	8.3708	15.297	11.662	2.1192	.099	-1.235
13	21	9.0797	18.298	13.767	2.6621	.217	-.739
14	10	10.089	18.471	13.748	2.8421	.631	-.807

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	4.3596	9.2031	6.8934	1.2333	.126	.333
6	19	4.5947	11.584	7.4606	1.7816	1.151	.881
7	22	4.4201	12.876	8.3899	2.2488	.577	-.297
8	23	5.5628	14.965	9.7569	2.4300	.517	-.319
9	22	6.6123	17.752	10.782	2.9103	.623	-.186
10	18	7.5718	13.768	11.099	1.9320	-.378	-1.010
11	22	8.3159	18.152	12.087	2.6012	.714	-.013
12	23	8.6237	17.771	12.184	2.6893	.609	-.635
13	20	8.3241	18.918	12.262	2.7816	.574	-.060
14	11	7.3478	19.249	13.220	3.6971	-.031	-.836





LINEAR MEASUREMENT

VARIABLE 144

**Upper Incisor Incisal Edge
perpendicular to Nasion-
A Point
Steiner Analysis**

UIE ⊥ N-A

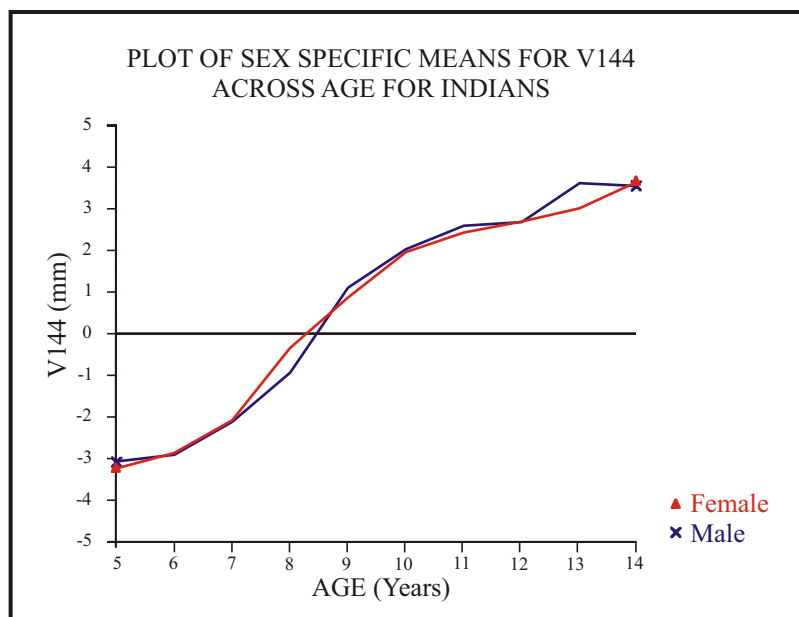
7 ⊥ 38-9

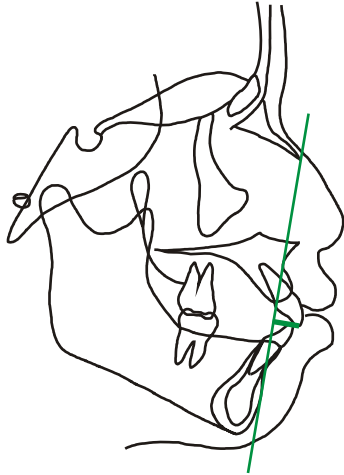
Male Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	14	-6.3150	.62202	-3.0970	1.9562	.241	-.596
6	20	-5.2925	-.51190	-1.29272	1.3501	.507	-.265
7	18	-6.6691	2.0684	-2.0969	2.1825	-.314	-.344
8	22	-6.0105	2.6902	-.85609	2.4545	-.497	-.542
9	21	-.93628	4.7797	1.2976	1.7638	.767	-.657
10	21	-2.9451	6.6130	2.2582	2.1231	-.198	.454
11	21	.15028	6.7087	2.8502	1.8260	.282	-.771
12	19	-.79896	7.5199	2.9428	2.1220	.461	-.559
13	21	-.19258	7.0821	3.9252	1.8698	-.138	-.527
14	10	1.0237	6.3912	3.8522	1.6897	-.216	-.802

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	-7.2422	-.98728	-3.2723	1.7725	-.559	-.433
6	19	-5.9365	-.77227	-2.8814	1.4061	-.414	-.735
7	22	-4.3989	.38508	-2.0572	1.4040	.088	-.988
8	23	-3.3219	3.7965	-.23079	1.7947	.381	-.202
9	22	-1.7522	4.1131	1.0403	1.6439	.182	-.669
10	18	-.17773	3.6000	2.1850	1.0941	-.541	-.693
11	22	-.75028	6.2361	2.6789	1.6122	.074	.192
12	22	1.2624	5.4031	2.9559	1.2317	.535	-.644
13	20	-.72916	6.2900	3.2916	1.5896	-.355	.682
14	11	1.5256	7.5794	3.9632	1.5251	.900	1.286





LINEAR MEASUREMENT

VARIABLE 145

**Upper Incisor Incisal Edge
perpendicular to A Point-
Pogonion
Ricketts Analysis**

UIE ⊥ A-PG

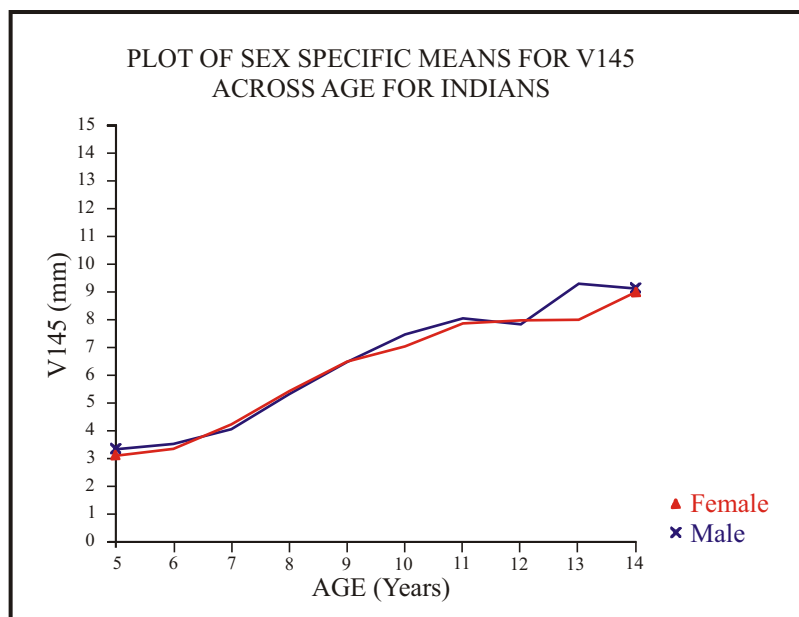
7 ⊥ 9-3

Male Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	14	1.5183	5.8717	3.3328	1.3164	.263	-.857
6	21	.56054	7.0956	3.5363	1.7697	.042	-.937
7	18	1.0234	7.1702	4.0926	1.6097	.288	-.528
8	21	2.5693	8.1269	5.4202	1.5340	.014	-.942
9	22	1.8202	10.684	6.6370	2.3303	-.349	-.366
10	21	3.7509	10.677	7.6788	1.9557	-.259	-1.021
11	21	4.9711	10.779	8.2882	1.6671	-.186	-.967
12	19	5.8458	10.917	8.0621	1.5561	.312	-.945
13	21	6.3706	13.004	9.5987	1.7595	-.022	-.414 **
14	10	6.7160	12.994	9.4130	1.9665	.439	-.771

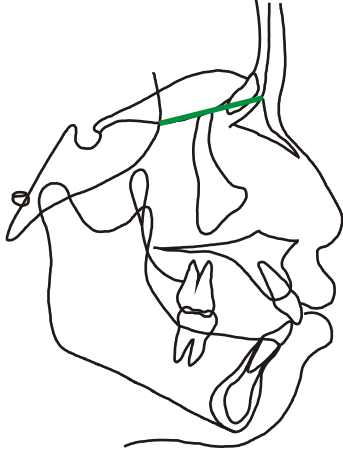
Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	.92517	5.2565	3.0882	1.1014	.021	-.194
6	18	1.8121	6.5028	3.3500	1.0712	1.341	2.296
7	22	1.7780	7.7018	4.2748	1.6828	.559	-.542
8	23	2.4810	10.007	5.5219	2.0403	.618	-.243
9	22	3.4630	11.639	6.6529	2.2503	.598	-.470
10	18	4.2751	9.3356	7.2271	1.4005	-.366	-.592
11	22	4.5700	12.962	8.0966	2.0262	.551	.307
12	23	5.6446	12.301	8.2124	2.0440	.545	-.749
13	19	5.4703	10.776	8.2352	1.5478	.227	-.901
14	11	6.2264	13.118	9.2975	2.3219	.230	-1.149



LINEAR MEASUREMENT

VARIABLE 146



Ethmoid Registration Point-Nasion

SE-N

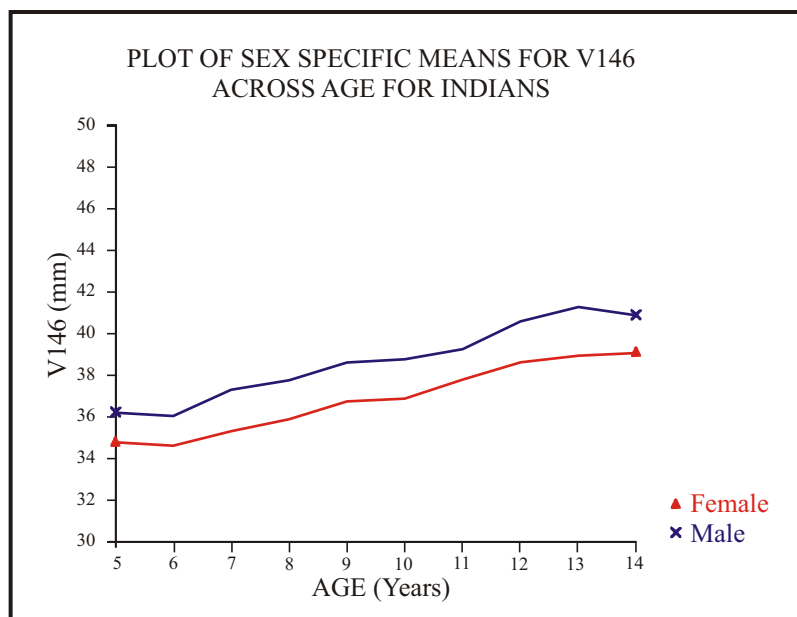
36-38

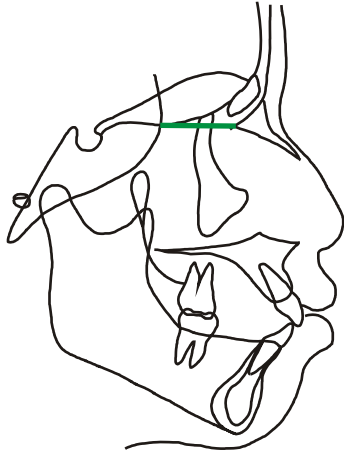
Male Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	14	33.532	40.771	36.301	1.9590	.517	.010
6	22	29.632	41.285	36.133	2.4907	-.435	.787
7	20	30.107	42.887	37.458	2.9680	-.483	.444 **
8	23	31.172	44.061	37.936	3.3373	.105	-.526
9	22	34.763	44.080	38.833	2.3204	.363	-.048 **
10	21	31.476	47.131	38.996	3.3259	.236	.714 *
11	20	33.915	43.950	39.507	2.5087	-.614	.363 **
12	19	35.098	47.236	40.910	3.1199	.179	-.604 **
13	21	35.278	48.484	41.634	3.4610	.055	-.416 **
14	10	36.511	48.653	41.212	3.5134	.789	.097

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	30.571	37.529	34.807	1.9665	-.376	-.443
6	20	30.332	37.495	34.635	2.0818	-.659	-.735
7	23	31.216	38.748	35.366	1.9585	-.205	-.567
8	23	32.207	39.051	35.969	2.1483	-.289	-1.106
9	22	32.562	39.862	36.869	2.1972	-.577	-.771
10	19	32.306	41.824	37.011	2.2861	-.223	.038
11	22	33.169	41.045	37.971	2.2974	-.593	-.615
12	23	34.583	41.847	38.543	2.1112	-.196	-.992
13	20	34.578	44.120	39.178	2.2406	.172	-.027
14	11	35.773	42.238	39.311	1.9012	-.161	-.660





LINEAR MEASUREMENT

VARIABLE 147

Ethmoid Registration Point- Fronto-Maxillary Nasal Suture

SE-FMN

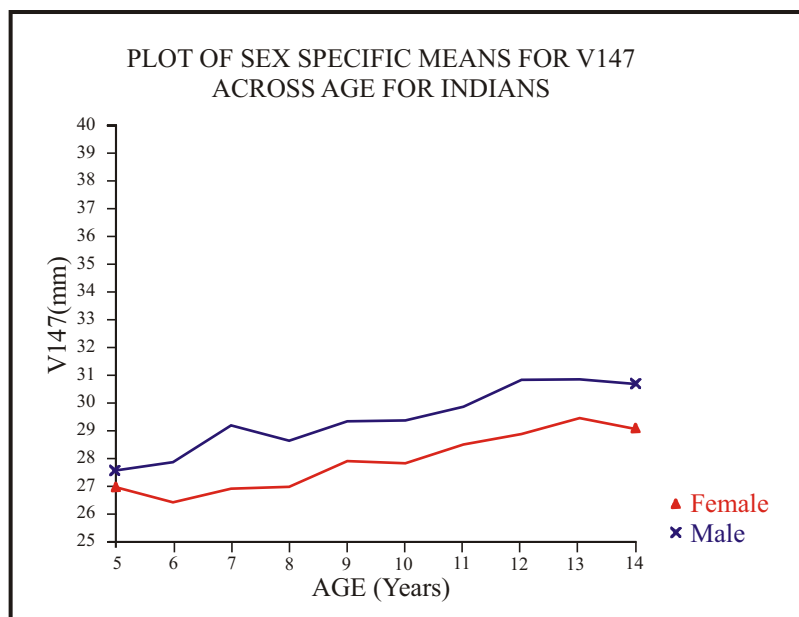
36-39

Male Indian

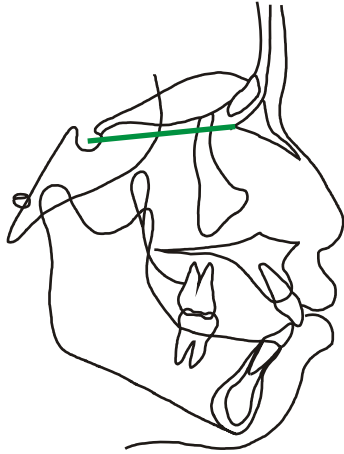
Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	14	24.129	33.371	27.574	2.2737	.947	1.229
6	22	20.679	34.001	27.883	3.0297	-.363	.213
7	19	23.560	33.834	29.234	2.4298	-.166	.117 **
8	23	22.229	34.968	28.671	3.4588	.003	-.790
9	22	25.071	33.705	29.384	2.4552	-.140	-.858
10	21	21.940	34.391	29.416	3.1499	-.359	-.133
11	21	23.161	35.873	29.920	3.5671	-.375	-.679
12	19	23.945	36.949	30.908	3.7862	-.166	-.982
13	21	23.688	37.904	30.926	3.8036	-.152	-.517
14	10	24.854	37.173	30.756	3.6482	.025	-.610

Female Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis
5	15	22.395	30.786	26.972	2.6185	-.180	-1.069
6	20	19.844	31.609	26.407	3.0167	-.617	-.346
7	23	22.610	30.719	26.909	2.2328	-.179	-.913
8	23	20.977	30.754	26.977	2.7175	-.514	-.647
9	22	22.946	31.577	27.922	2.6223	-.549	-.824
10	19	22.465	31.979	27.842	2.7853	-.300	-.906
11	22	22.110	32.629	28.532	2.7579	-.646	-.253
12	23	23.570	32.645	28.917	2.5209	-.484	-.790
13	20	26.244	34.177	29.502	2.2652	.488	-.654
14	11	25.839	32.032	29.082	2.1136	-.192	-1.320



LINEAR MEASUREMENT VARIABLE 148



Sella-Fronto-Maxillary Nasal Suture

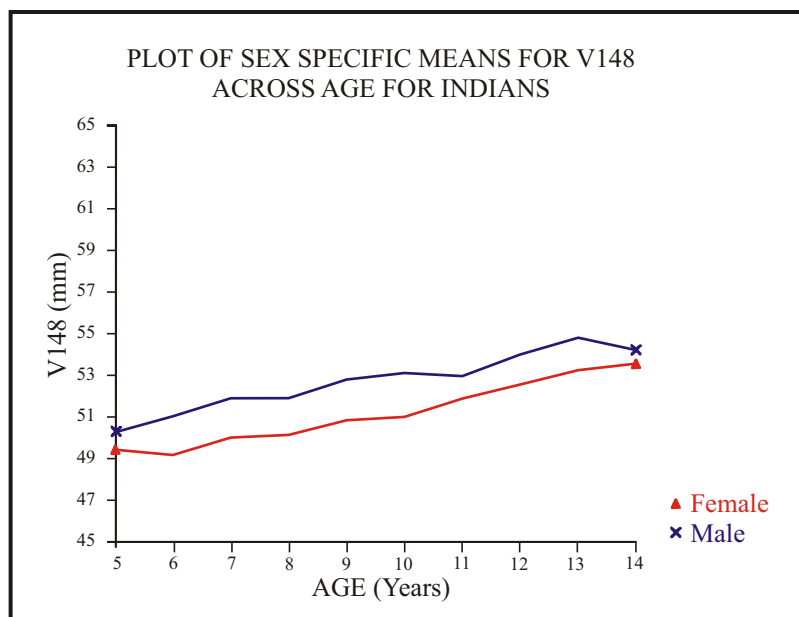
S-FMN

35-39

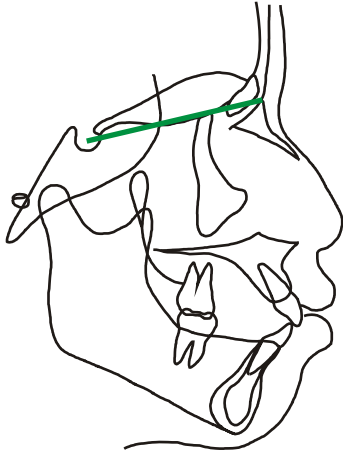
Male Indian

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis		Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	14	47.259	54.167	50.345	2.2096	.259	-1.073		5	15	46.387	54.276	49.466	2.3222	.474	-.759
6	22	44.025	55.864	51.153	2.5303	-.689	1.188	**	6	19	44.265	54.064	49.199	2.3739	.098	.140
7	19	47.337	55.666	52.062	2.1966	-.267	-.696	**	7	23	46.061	53.591	50.079	1.9317	-.235	-.588
8	22	48.391	55.640	52.067	2.1320	-.073	-1.065	**	8	23	46.406	54.274	50.213	2.2318	-.134	-1.033
9	22	48.875	56.312	53.006	1.9378	-.105	-.487	**	9	22	45.806	54.144	50.951	2.3152	-.525	-.496
10	20	49.717	56.449	53.336	1.8691	-.073	-.813	**	10	19	46.582	54.761	51.121	2.3668	-.254	-.643
11	21	45.574	57.564	53.180	3.1424	-.702	-.152		11	22	46.341	55.527	52.046	2.5463	-.569	-.581
12	18	49.192	57.970	54.271	2.3505	-.347	-.344	*	12	23	48.325	56.038	52.756	2.0132	-.498	-.255
13	20	50.502	61.188	55.117	2.9912	.258	-.889	*	13	20	50.308	57.355	53.479	2.2429	.060	-1.315
14	10	50.747	59.123	54.492	2.7879	.517	-.659		14	11	49.208	58.317	53.810	2.7805	-.107	-.994



LINEAR MEASUREMENT VARIABLE 149



Sella-Nasion

S-N

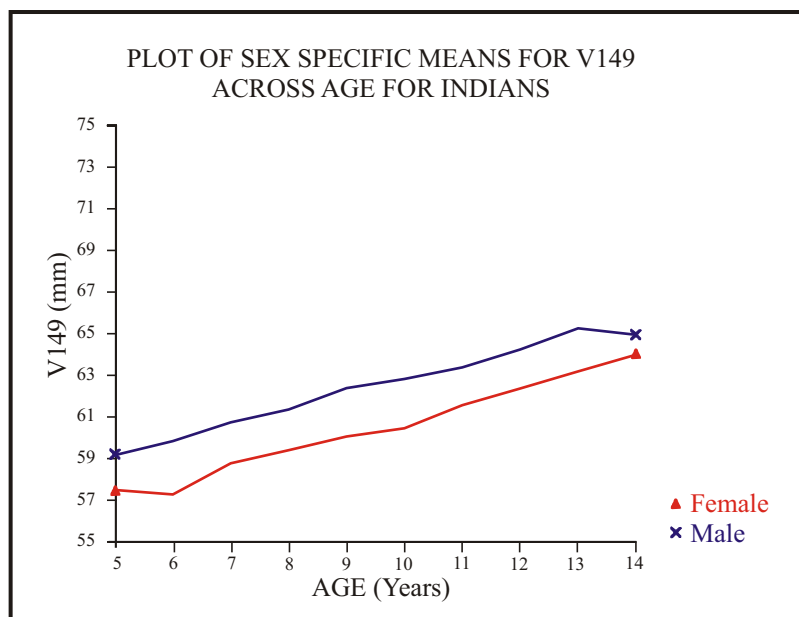
35-38

Male Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	14	56.177	62.147	59.154	1.8935	.231	-1.187 **
6	21	57.160	62.763	59.861	1.7005	.299	-1.112 **
7	19	57.581	64.190	60.807	2.1735	.165	-1.185 **
8	22	57.977	64.854	61.455	2.1439	.028	-1.260 **
9	22	59.169	66.394	62.535	1.8859	.129	-.639 **
10	20	59.701	67.317	62.996	2.0952	.137	-.608 **
11	20	60.216	68.287	63.581	2.0372	.446	-.335 **
12	18	61.191	68.182	64.484	2.0910	.156	-.924 **
13	21	58.067	73.562	65.552	3.3511	.141	.443 **
14	10	61.634	70.495	65.224	2.8736	.442	-.898

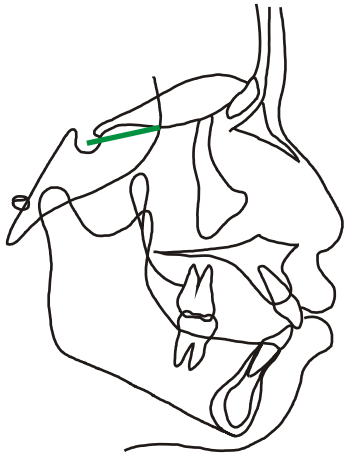
Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	54.632	61.079	57.395	1.9415	.358	-1.026
6	20	52.470	62.402	57.169	2.1864	.006	.765
7	23	54.767	62.402	58.741	2.1843	.041	-.935
8	23	55.353	62.285	59.402	1.9861	-.345	-.748
9	22	56.393	63.674	60.093	2.0725	.080	-.979
10	19	57.511	63.657	60.508	2.0349	.230	-1.286
11	22	57.622	64.789	61.674	2.0775	-.237	-1.025
12	23	58.805	65.855	62.516	1.8685	-.074	-1.028
13	20	58.716	66.819	63.378	2.1669	-.074	-.618
14	11	59.104	67.458	64.220	2.2951	-.901	.362



LINEAR MEASUREMENT

VARIABLE 150



Sella-Ethmoid Registration Point

S-SE

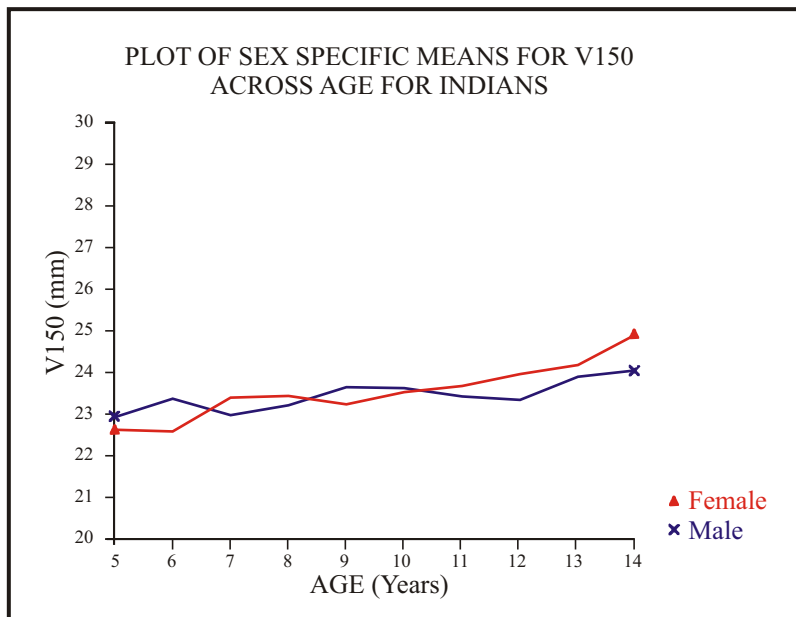
35-36

Male Indian

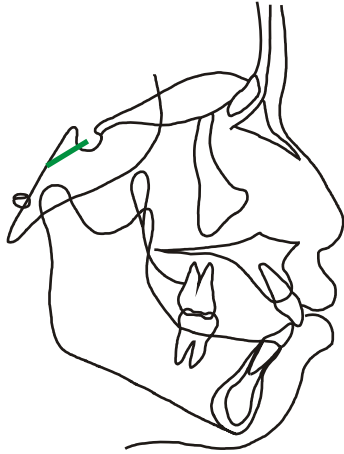
Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	14	19.986	26.804	22.964	2.3340	.250	-1.247
6	22	19.933	26.892	23.430	2.0702	-.003	-1.068
7	20	19.403	27.793	23.015	2.2670	.383	-.602
8	23	19.572	27.440	23.264	2.2664	.283	-.935
9	23	20.378	27.071	23.721	2.0118	.153	-1.028
10	21	20.018	28.097	23.697	2.3322	.141	-.872
11	21	20.919	27.378	23.487	1.9010	.585	-.743
12	19	19.599	27.501	23.400	2.2048	.414	-.646
13	21	20.519	27.783	23.984	2.2249	.171	-1.098
14	10	21.916	29.047	24.145	2.2114	1.045	.342

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	19.189	26.533	22.647	1.9400	.135	-.370
6	20	19.866	27.258	22.604	1.9147	.872	.202
7	23	19.607	28.273	23.457	2.4193	.461	-.537
8	23	19.962	27.326	23.500	1.9391	.095	-.630
9	22	19.794	26.865	23.288	2.0018	.074	-.731
10	19	19.472	27.473	23.596	2.2092	.097	-.779
11	22	20.134	27.670	23.751	2.1972	-.099	-1.057
12	23	20.348	27.542	24.051	2.1701	-.143	-.785
13	20	20.882	27.921	24.280	2.1363	.112	-1.198
14	11	21.792	28.573	25.051	2.3267	.025	-1.266



LINEAR MEASUREMENT VARIABLE 151



**Sella- Spheno-Occipital
Synchondrosis**

S-SOS

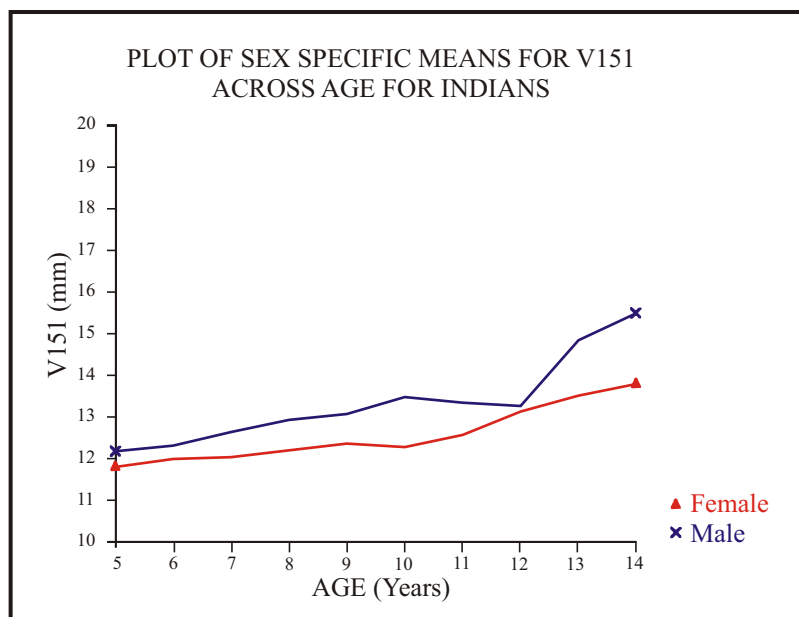
35-34

Male Indian

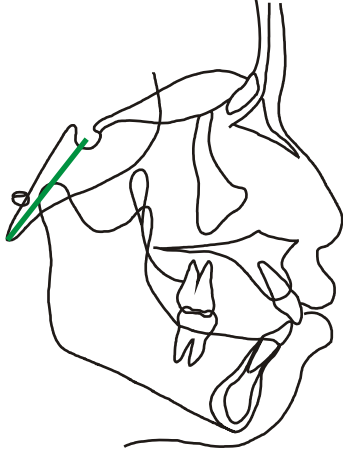
Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	14	10.298	14.004	12.236	1.0195	-.391	-.090
6	22	10.105	14.389	12.379	1.2424	.030	-1.108
7	20	9.9183	14.844	12.722	1.1586	-.173	.391
8	23	10.949	15.917	13.028	1.2818	.538	-.203
9	23	10.627	15.360	13.177	1.1838	-.020	-.317 *
10	21	11.076	15.919	13.604	1.3021	.110	-.551 **
11	21	10.525	15.759	13.462	1.2953	-.419	-.184
12	19	10.523	16.116	13.379	1.2472	-.129	.413
13	21	12.473	18.820	15.037	1.7002	.421	-.582 **
14	10	12.588	18.995	15.720	1.9848	.160	-.935

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	9.7854	14.655	11.840	1.4232	.174	-.679
6	19	10.725	14.885	12.042	.97701	1.052	1.842
7	22	10.299	14.228	12.088	1.0298	.499	-.475
8	22	10.319	15.552	12.260	1.1112	1.028	1.866
9	21	10.485	15.160	12.430	1.1537	.494	-.217
10	18	10.286	16.388	12.342	1.4832	.992	1.013
11	21	9.9209	15.266	12.649	1.3818	.281	-.606
12	22	10.995	16.550	13.238	1.4406	.408	-.421
13	20	10.243	17.254	13.640	1.9346	.302	-.693
14	11	10.076	19.236	13.934	2.4556	.611	.286



LINEAR MEASUREMENT VARIABLE 152



Sella-Basion

S-BA

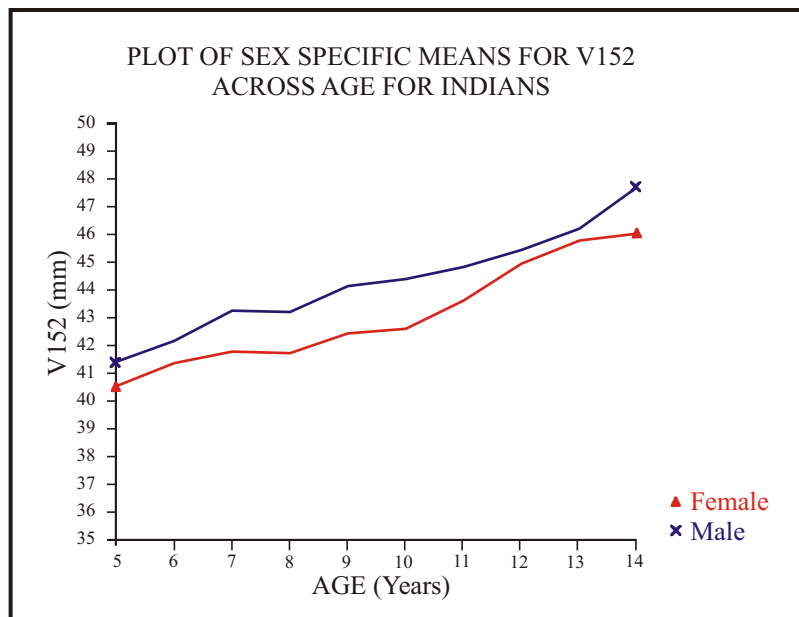
35-30

Male Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	38.307	46.709	41.398	1.9792	1.107	1.649
6	22	38.271	46.617	42.179	2.1512	.151	-.172
7	20	39.539	45.479	43.324	1.8725	-.496	-.982 **
8	22	40.242	46.337	43.273	1.5124	.106	-.163 **
9	23	40.998	47.949	44.253	1.8450	.034	-.652 **
10	21	40.063	47.289	44.521	1.9517	-.896	.288 **
11	20	42.935	49.378	44.978	1.7522	.939	.127 *
12	19	42.615	50.318	45.623	2.0880	.584	-.431
13	21	40.154	53.490	46.728	3.4008	-.340	-.150
14	10	45.427	50.023	48.007	1.5441	-.246	-1.100 **

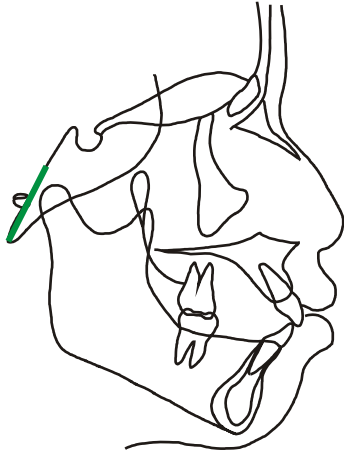
Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	35.290	45.267	40.467	3.3267	-.221	-1.291
6	20	36.136	47.942	41.338	2.8928	.575	.200
7	23	37.237	45.119	41.774	1.9113	-.498	.040
8	23	38.174	46.381	41.716	2.2236	.177	-.831
9	21	37.926	47.072	42.463	1.9572	.023	.699
10	19	37.841	49.049	42.637	2.6050	.528	.313
11	21	39.904	47.553	43.708	2.0494	.202	-.726
12	23	40.715	50.148	45.104	2.2684	-.044	-.303
13	20	42.340	49.946	45.977	2.3357	.049	-1.005
14	11	42.578	49.114	46.240	2.1284	-.191	-1.107



LINEAR MEASUREMENT

VARIABLE 153



Basion-Spheno-Occipital Synchondrosis

BA-SOS

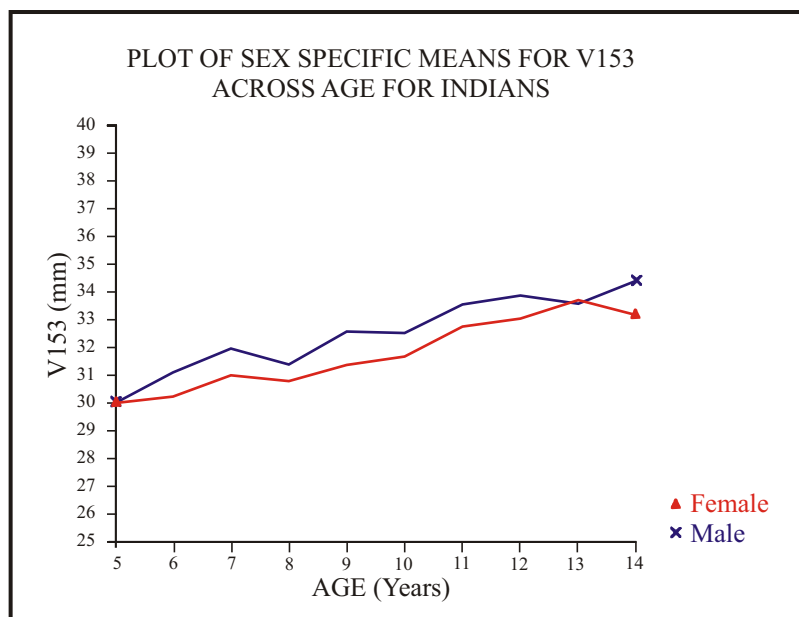
30-34

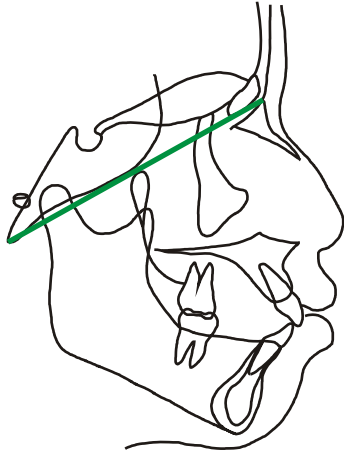
Male Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	26.053	35.969	30.039	2.6936	.408	-.125
6	22	25.605	35.021	31.202	2.4315	-.431	-.288
7	20	28.868	36.016	32.105	1.7956	.152	-.267
8	23	26.446	35.341	31.502	2.2960	-.280	-.538
9	23	28.774	35.852	32.749	2.0416	-.520	-.630 *
10	21	27.527	36.848	32.693	2.6157	-.178	-.760
11	21	29.779	39.314	33.774	2.7894	.481	-.727
12	19	30.282	38.935	34.112	2.6277	.360	-1.150
13	20	27.507	37.464	33.802	2.7581	-.695	-.354
14	9	33.738	36.954	34.671	1.0451	1.189	.463

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	25.396	34.984	30.043	3.1660	-.162	-1.313
6	19	26.705	35.881	30.288	2.1811	.582	.462
7	23	26.434	35.644	31.093	2.3204	-.277	-.477
8	23	25.030	37.189	30.873	2.9205	-.001	-.398
9	21	27.819	36.121	31.485	2.0356	.594	.544
10	19	26.607	37.425	31.803	2.9380	-.125	-.564
11	22	28.785	39.545	32.937	2.9084	.576	-.395
12	23	29.276	37.880	33.239	2.2894	.304	-.396
13	20	30.658	39.464	33.939	2.2563	.573	-.025
14	11	30.887	37.408	33.672	2.2820	.602	-1.110





LINEAR MEASUREMENT VARIABLE 154

Basion-Nasion

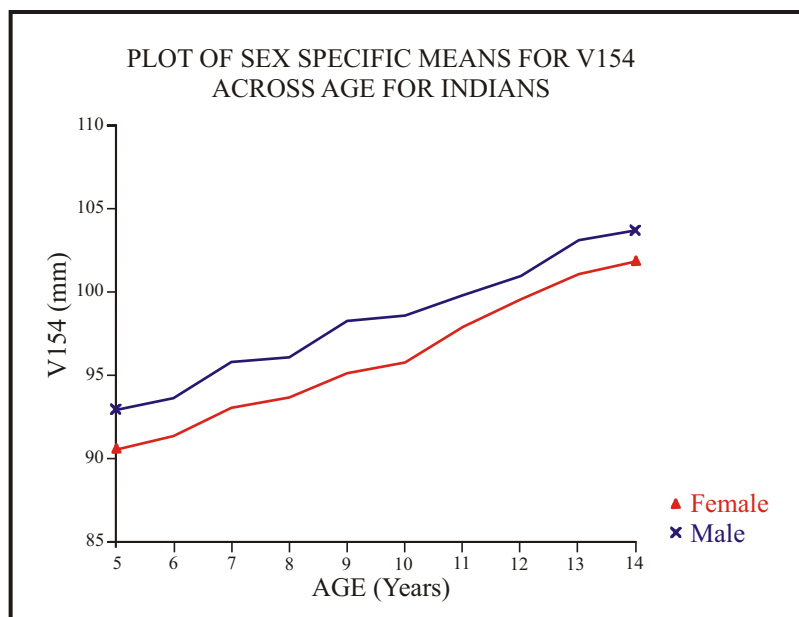
BA-N

30-38

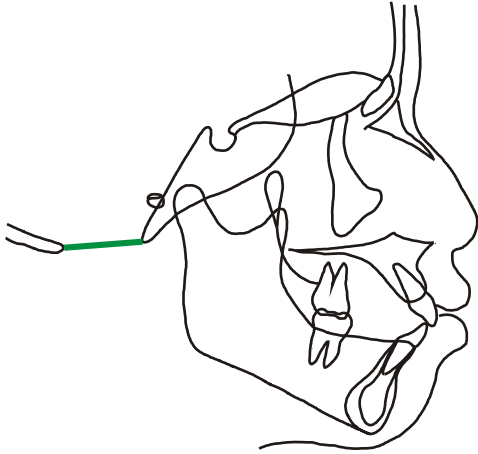
Male Indian

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis		Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	14	90.169	100.19	93.167	2.7991	1.289	.959	**	5	15	85.564	95.335	90.660	3.0339	-.014	-1.181
6	22	86.791	98.168	93.918	2.6989	-.700	.397	*	6	20	85.834	100.93	91.527	3.5467	.938	.817
7	19	90.297	100.80	96.199	2.4857	-.329	.302	**	7	23	89.632	99.009	93.308	2.3739	.575	-.187
8	21	92.547	99.919	96.493	2.2127	-.166	-1.008	**	8	23	88.223	98.643	93.961	2.9048	-.281	-.773
9	22	94.672	106.03	98.788	2.5116	.720	1.490	**	9	22	90.714	101.33	95.490	3.1012	.601	-.871
10	21	90.234	108.82	99.126	3.9451	.195	.822	**	10	19	92.316	101.55	96.168	3.3397	.361	-1.607
11	19	96.266	108.18	100.41	2.8122	1.097	1.236	*	11	22	91.794	104.51	98.410	2.7108	.050	.781
12	19	91.421	111.48	101.62	4.3085	.031	.870		12	23	94.969	104.12	100.15	2.5511	-.173	-.795
13	21	94.584	117.30	103.88	5.4262	.279	.260		13	20	94.793	108.29	101.74	2.9412	-.274	.700
14	10	97.371	112.91	104.51	3.9349	.449	.941		14	11	97.284	105.97	102.55	2.4616	-.999	.255



LINEAR MEASUREMENT VARIABLE 155



Basion-Opisthion

BA-OP

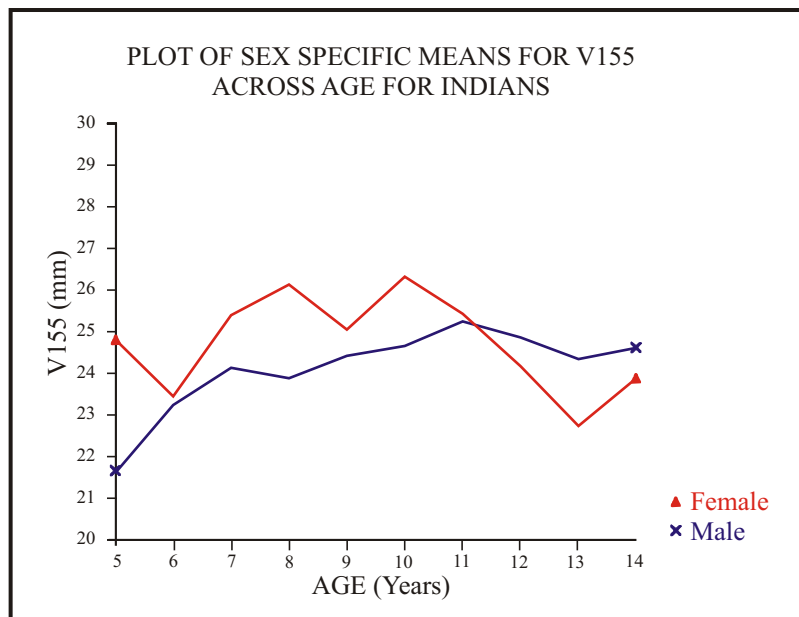
30-29

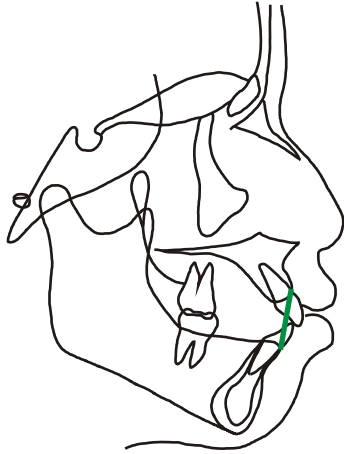
Male Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	14	16.660	27.008	21.670	3.0773	-.008	-.746
6	21	17.717	31.518	23.094	3.8258	.181	-.698
7	20	17.188	34.059	24.033	4.5760	.607	-.380
8	22	16.758	32.548	23.770	3.7891	.299	.194
9	22	19.511	34.161	24.335	3.7459	.630	.129
10	20	19.936	34.451	24.584	3.4776	1.203	1.423
11	21	16.712	37.604	25.203	5.7605	.512	-.602
12	18	19.087	34.947	24.799	3.9652	1.126	.820
13	20	19.030	31.289	24.253	3.2077	.453	-.399
14	10	18.535	30.695	24.537	3.4230	.051	-.417

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	16.323	39.844	24.748	7.2468	.817	-.354
6	19	18.231	33.069	23.313	4.2918	1.095	.071
7	23	19.007	39.840	25.360	6.3110	.856	-.466
8	23	18.534	36.748	26.133	5.8729	.568	-1.050
9	22	18.329	37.774	24.997	6.0326	.828	-.716
10	19	19.079	36.719	26.332	5.8684	.506	-1.161
11	22	13.197	37.951	25.396	6.7126	.481	-.711
12	22	17.856	37.024	24.073	4.9900	1.035	.317
13	19	17.593	32.485	22.566	3.9126	1.116	.569
14	11	20.309	29.796	23.772	3.0691	1.275	.253





LINEAR MEASUREMENT VARIABLE 156

Supradentale-Infradentale

SD-ID

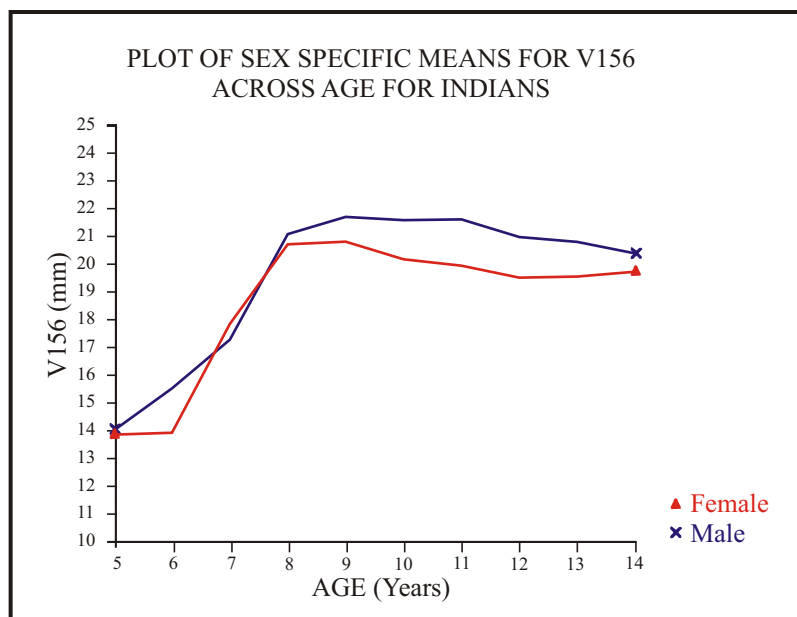
8-5

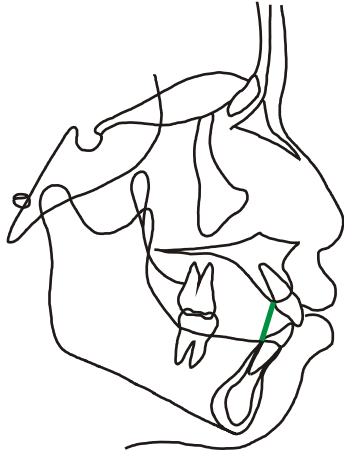
Male Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	10.449	17.388	14.093	2.1408	-.024	-1.049
6	21	11.750	22.011	15.678	2.6492	1.043	.337 *
7	19	13.033	21.754	17.522	2.5668	-.102	-1.263
8	23	14.889	28.567	21.517	3.7042	.067	-.684
9	23	17.875	26.364	22.168	2.2485	-.225	-.493
10	21	19.473	24.260	22.045	1.2012	.071	-.224 **
11	21	20.058	23.920	22.074	1.0605	-.039	-.882 **
12	18	19.232	23.691	21.406	1.1844	.233	-.286 **
13	21	18.544	24.064	21.222	1.4312	-.056	-.727 **
14	10	18.506	22.753	20.786	1.1189	-.365	.375

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	11.162	16.003	13.928	1.4402	-.602	-.210
6	20	9.6232	18.734	14.000	2.2088	.194	.333
7	23	12.283	24.444	18.118	3.0631	.136	-.327
8	23	16.459	24.249	21.131	1.9497	-.837	-.451
9	22	17.006	26.124	21.231	2.0091	.310	.497
10	18	19.152	22.172	20.564	.97587	.178	-1.355
11	21	18.445	22.645	20.322	.98432	.232	.048
12	23	17.907	22.065	19.869	1.0728	.234	-.528
13	20	18.513	21.806	19.911	.87735	.158	-.641
14	11	18.367	22.462	20.094	1.2069	.490	-.533





LINEAR MEASUREMENT

VARIABLE 157

**Upper Incisor Lingual Bony
Contact Point-Lower Incisor
Lingual Bony Contact Point**

UIB-LIB

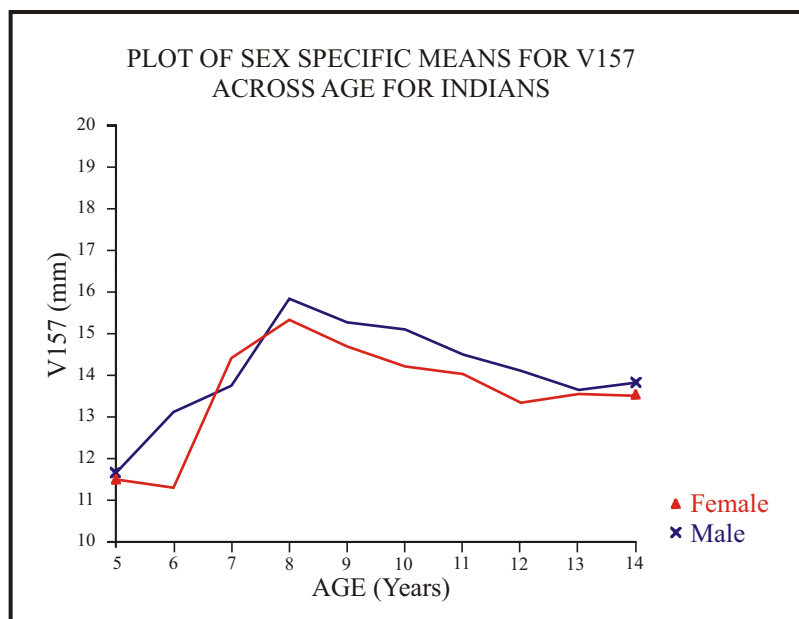
13-14

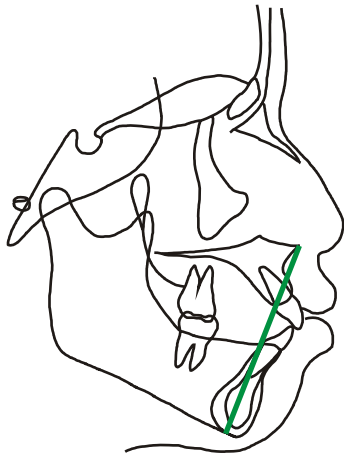
Male Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	9.7171	14.685	11.709	1.5857	.409	-1.151
6	22	9.9970	18.369	13.256	2.2957	.648	-.602
7	19	10.921	17.103	13.920	1.8145	-.091	-1.100
8	23	11.945	21.829	16.114	2.4252	.306	-.186
9	22	13.093	18.512	15.518	1.5359	.460	-.763
10	21	13.567	18.184	15.339	1.3587	.561	-.822 *
11	20	12.670	16.590	14.707	1.1466	.180	-1.019
12	19	12.334	16.729	14.297	1.0131	.298	.226
13	20	11.309	16.071	13.813	1.3055	-.008	-.794
14	10	11.585	15.243	13.999	1.0762	-1.003	.536

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	9.7349	14.519	11.556	1.3431	.759	-.095
6	20	7.9468	14.583	11.346	1.6571	-.230	-.130
7	23	10.945	18.247	14.618	2.0653	-.030	-1.048
8	23	13.066	17.775	15.582	1.5131	-.014	-1.395
9	22	11.821	18.977	14.909	1.9003	.670	-.246
10	18	12.510	17.217	14.406	1.1605	.519	.369
11	22	11.891	16.678	14.214	1.3001	.156	-.549
12	23	11.171	16.007	13.490	1.2894	-.317	-.631
13	20	12.279	15.814	13.711	.88403	1.002	.474
14	11	12.259	15.771	13.664	1.0969	.535	-.740





LINEAR MEASUREMENT VARIABLE 158

Menton-Anterior Nasal Spine

ME-ANS

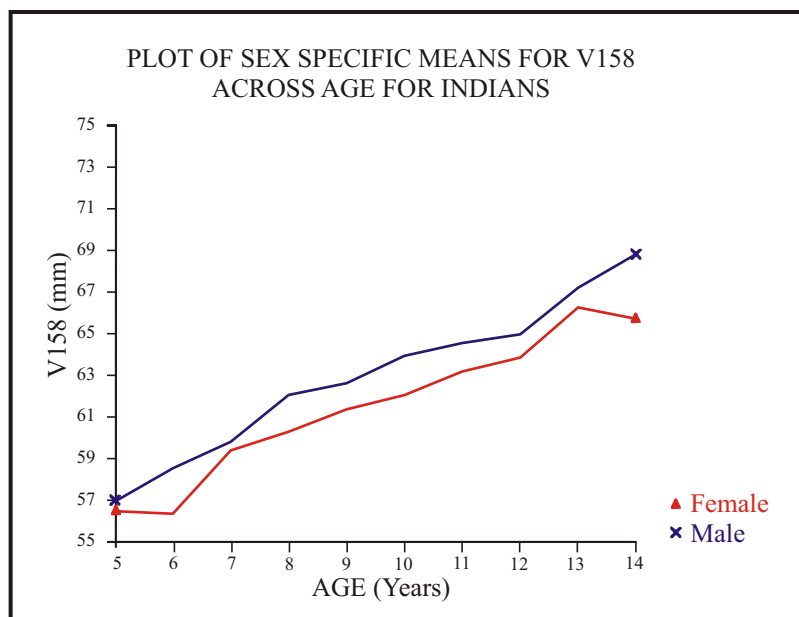
1-10

Male Indian

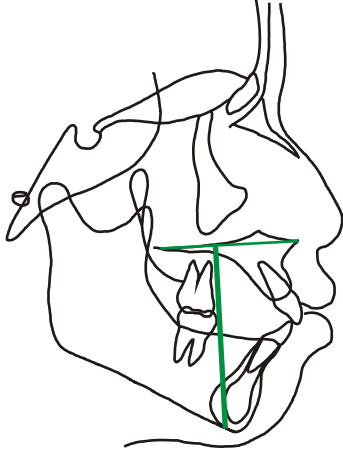
Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	52.573	61.591	57.031	2.4757	-.002	-.887
6	22	50.496	64.364	58.706	3.2308	-.666	.199
7	20	52.574	65.966	60.045	3.7086	-.341	-.892
8	23	57.734	67.892	62.408	3.1374	.034	-.983 *
9	23	57.708	69.742	62.999	3.6190	.258	-1.042
10	21	57.657	70.852	64.381	4.1971	.154	-1.174
11	21	58.064	72.421	65.027	3.7306	.194	-.613 *
12	19	59.245	74.025	65.466	3.9439	.600	-.189
13	21	60.912	73.891	67.816	3.4540	.214	-.606
14	10	64.370	76.855	69.511	4.2292	.647	-.925 *

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	52.961	60.832	56.543	2.8140	.099	-1.529
6	19	49.762	60.363	56.413	2.6889	-.505	.094
7	23	53.843	66.401	59.608	3.4479	-.170	-.725
8	23	53.182	67.881	60.552	3.1554	-.282	.476
9	22	56.464	70.320	61.680	3.6495	.322	-.337
10	19	55.248	69.934	62.401	3.8349	-.102	-.784
11	22	58.060	72.275	63.592	3.7560	.005	-.442
12	22	58.633	69.016	64.292	2.9472	-.371	-.973
13	20	58.739	76.601	66.823	4.0819	.183	.230
14	10	60.780	70.081	66.248	2.9930	-.363	-.823



LINEAR MEASUREMENT VARIABLE 159



**Menton perpendicular to
Palatal Plane**

ME ⊥ ANS-PNS

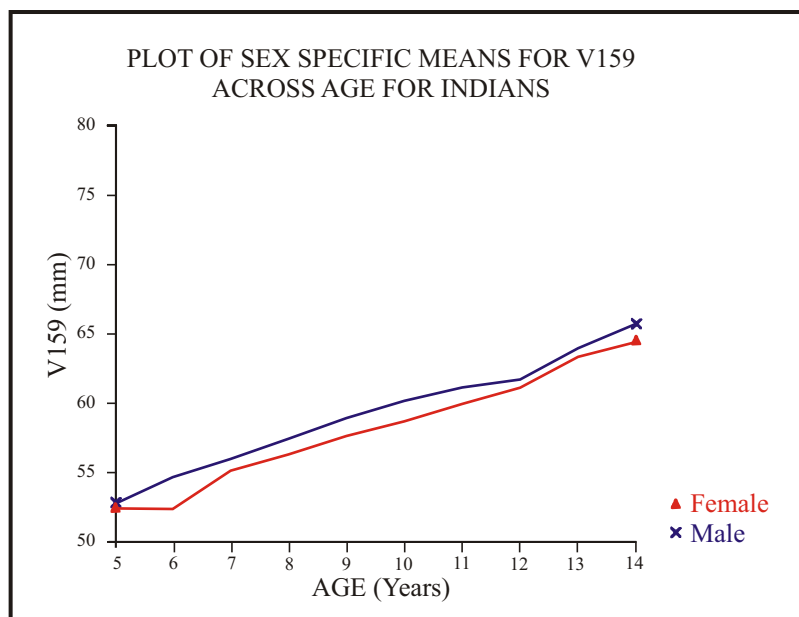
1 ⊥ 10-45

Male Indian

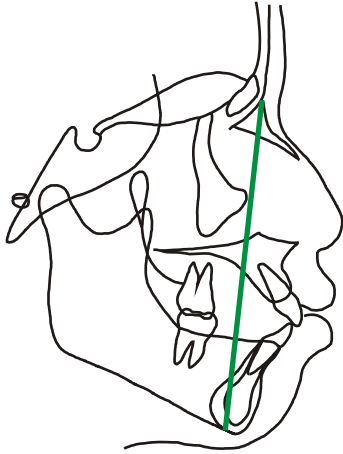
Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	14	49.809	55.093	52.695	1.8083	-.165	-1.271
6	22	50.137	58.965	54.720	2.2990	-.050	-.668
7	20	51.729	61.626	56.099	2.8389	-.114	-1.006
8	22	54.227	61.052	57.627	2.0819	.021	-1.032
9	23	55.082	64.035	59.192	2.7808	.301	-.959
10	21	54.638	65.787	60.496	3.1084	-.014	-.675
11	21	56.136	66.753	61.509	2.8893	-.099	-.757
12	19	57.459	68.469	62.112	2.9711	.429	-.350
13	21	59.067	69.513	64.276	2.5740	.067	-.090
14	10	61.184	72.799	66.323	3.6714	.417	-.928

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	48.412	56.568	52.354	2.7826	.102	-1.588
6	20	46.655	60.060	52.311	3.0648	.649	.553
7	23	49.278	60.140	55.211	3.1332	-.331	-1.048
8	23	49.796	62.183	56.441	2.8454	-.371	-.033
9	22	52.593	63.813	57.836	3.1985	-.037	-.825
10	19	51.898	64.564	58.945	3.5811	-.276	-.872
11	22	54.198	66.969	60.263	3.5561	-.298	-.849
12	23	55.487	68.938	61.492	3.1525	.024	-.082
13	20	56.335	70.935	63.825	3.7788	-.008	-.615
14	11	58.580	74.646	64.946	4.2298	.889	.723



LINEAR MEASUREMENT VARIABLE 160



Menton-Nasion

ME-N

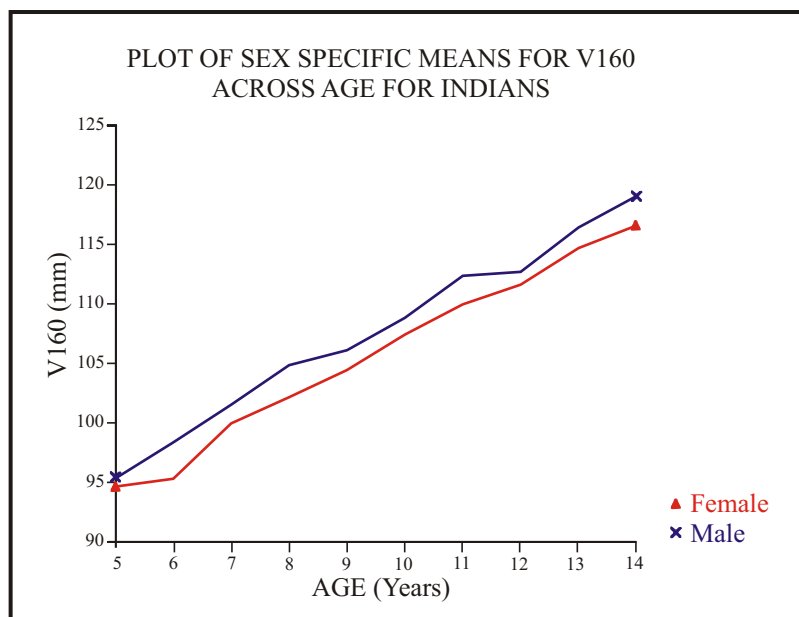
1-38

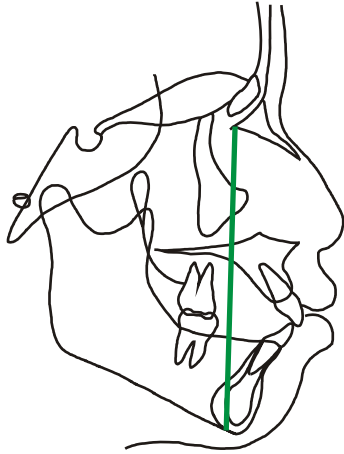
Male Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	90.948	99.925	95.557	2.7813	-.126	-1.088
6	22	92.610	107.56	98.943	3.5093	.416	.443 *
7	20	93.801	110.01	102.07	4.4686	.098	-.618
8	23	99.258	115.50	105.56	4.1971	.691	.072 **
9	22	100.36	114.77	106.88	3.9351	.429	-.852
10	21	102.60	120.16	109.74	5.1212	.389	-.851
13	21	104.95	122.43	112.45	4.9562	.252	-.819 **
11	19	106.99	122.35	113.80	4.5188	.247	-1.103
12	21	110.93	127.84	117.72	4.7065	.514	-.410
14	10	110.58	130.10	120.49	5.8820	-.076	-.753

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	88.305	101.70	94.837	4.0113	-.135	-1.045
6	20	86.875	102.87	95.530	4.2371	-.097	-.591
7	23	90.322	106.52	100.42	4.5054	-.448	-.705
8	23	91.767	108.47	102.73	4.5009	-.527	-.335
9	22	95.065	112.79	105.13	4.5434	-.462	-.396
10	18	100.29	114.15	108.26	4.1774	-.363	-.959
11	21	102.56	118.02	110.93	4.2210	-.368	-.899
12	23	104.20	118.19	112.67	4.3119	-.615	-.688
13	20	107.37	124.06	115.90	5.3970	-.143	-1.202
14	11	110.48	128.70	117.89	5.2525	.668	-.208





LINEAR MEASUREMENT VARIABLE 161

Menton-Fronto-Maxillary Nasal Suture

ME-FMN

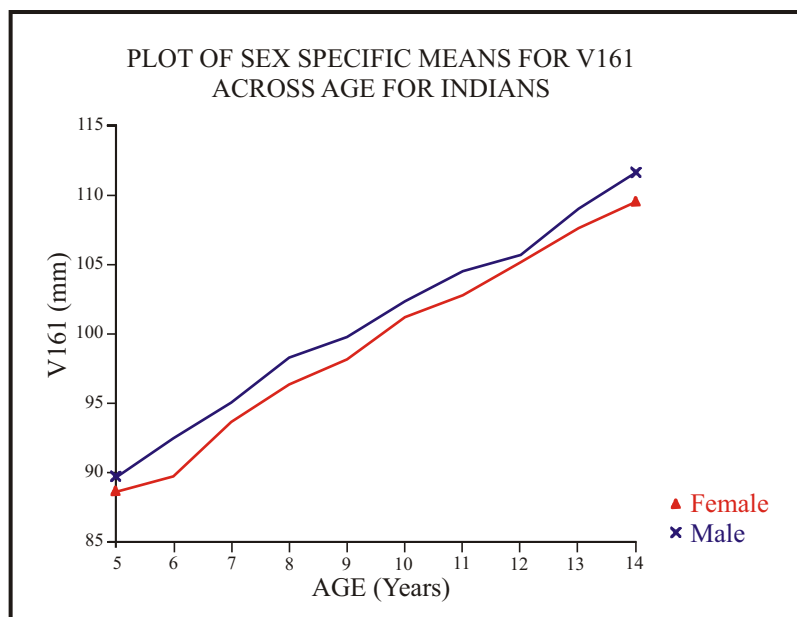
1-39

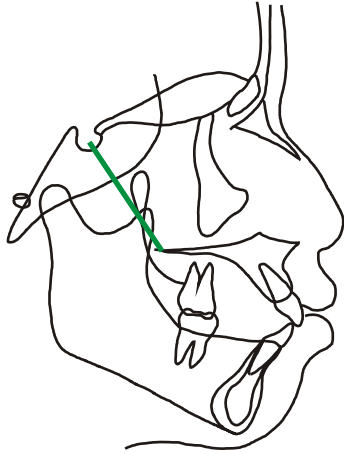
Male Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	14	85.683	93.961	89.598	2.6117	.045	-1.237
6	22	87.846	98.896	92.592	2.8296	.463	.219 *
7	20	88.977	102.28	95.297	3.6794	.222	-.610
8	23	93.540	107.06	98.700	3.4366	.972	.491 *
9	22	95.150	105.76	100.26	3.0320	.160	-.803
10	21	96.409	112.16	102.96	4.4951	.396	-.789
11	21	98.984	113.31	105.24	4.0139	.295	-.901 **
12	19	100.53	112.60	106.47	3.8341	.199	-1.139
13	21	102.99	117.69	109.97	4.2990	.306	-.708
14	10	104.64	120.50	112.74	5.0309	-.016	-1.022

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	83.931	96.221	88.526	3.6707	.470	-.606
6	20	81.836	96.307	89.710	3.9422	-.272	-.792
7	23	83.902	102.02	93.831	4.4186	-.230	-.410
8	22	89.748	103.71	96.666	3.6847	-.004	-.731
9	22	89.100	105.63	98.566	4.5525	-.280	-.653
10	18	93.305	108.97	101.76	4.1854	-.193	-.571
11	22	93.383	109.25	103.42	4.5674	-.498	-.739
12	23	95.762	112.58	105.92	4.4117	-.531	-.392
13	20	100.68	118.05	108.50	5.1350	.018	-.996
14	11	103.49	120.32	110.51	4.6932	.544	-.062





LINEAR MEASUREMENT VARIABLE 162

Sella-Posterior Nasal Spine

S-PNS

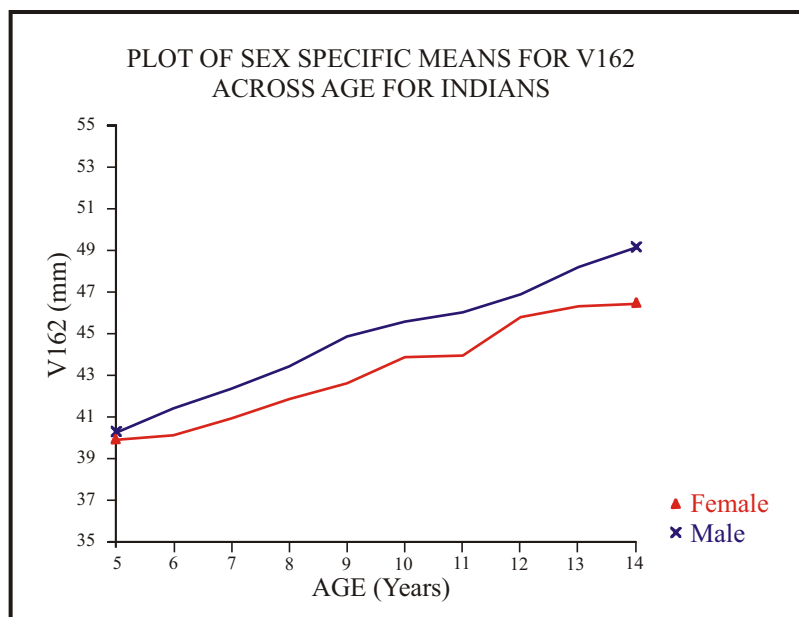
35-45

Male Indian

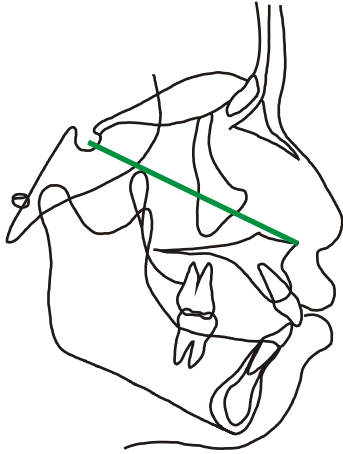
Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	14	36.461	46.190	40.076	2.7047	.687	-.175
6	22	36.672	47.572	41.316	2.5637	.322	.347 *
7	20	36.855	47.884	42.308	3.0005	-.093	-1.018
8	22	39.498	48.391	43.435	2.1936	-.014	-.272
9	23	41.013	49.424	44.945	1.9881	.122	-.310 **
10	21	41.636	49.412	45.696	2.1650	-.168	-.827 **
11	21	42.874	49.180	46.164	1.9466	-.118	-1.052 **
12	19	42.952	50.901	47.074	2.2062	-.050	-.609
13	21	44.869	53.336	48.448	2.4627	.278	-1.139 *
14	10	47.262	51.963	49.442	1.6896	-.113	-1.448 **

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	36.319	43.640	39.728	2.2754	.430	-1.032
6	20	33.147	43.406	39.960	2.8405	-.661	-.321
7	23	36.883	44.276	40.808	2.2835	-.127	-1.089
8	23	36.408	46.174	41.785	2.8420	-.064	-1.068
9	22	38.545	46.326	42.584	2.3888	-.043	-1.006
10	19	39.773	48.638	43.903	2.5086	.052	-.920
11	22	39.185	48.431	43.982	2.3207	.045	-.243
12	23	41.453	49.769	45.923	2.3929	-.285	-.605
13	20	41.389	50.429	46.470	2.9645	-.537	-.904
14	11	40.915	50.531	46.591	3.2701	-.556	-1.017



LINEAR MEASUREMENT VARIABLE 163



Sella-Anterior Nasal Spine

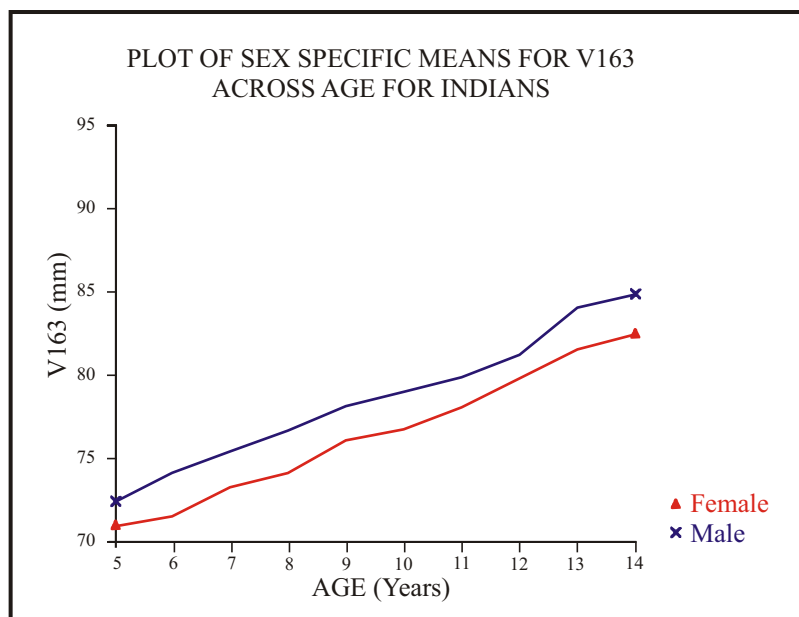
S-ANS

35-10

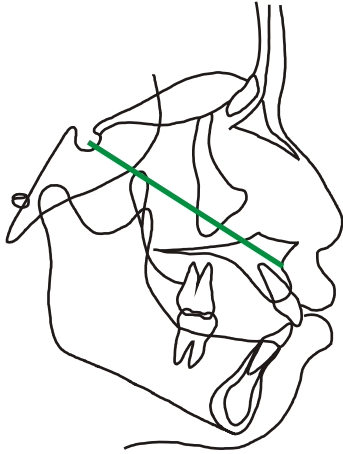
Male Indian

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis		Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	14	67.074	76.346	72.506	2.3795	-.606	.219		5	15	66.247	75.206	70.986	2.3709	-.309	-.309
6	21	69.935	80.151	74.368	2.4314	.434	.088	**	6	19	66.989	76.399	71.623	2.4923	-.122	-.466
7	20	69.664	81.814	75.717	2.9964	-.131	-.264	*	7	23	69.206	79.655	73.458	2.9685	.133	-.957
8	23	73.213	82.524	77.033	2.6700	.183	-.928	**	8	23	69.130	78.742	74.357	2.6717	-.208	-.806
9	22	74.569	82.376	78.574	1.7777	.189	.306	**	9	22	71.482	82.640	76.417	2.8587	.284	-.145
10	21	74.627	83.007	79.478	2.6402	-.422	-1.041	**	10	19	72.186	81.877	77.113	2.8376	-.057	-1.124
11	20	75.860	83.570	80.398	2.5067	-.265	-1.321		11	22	73.276	85.601	78.500	2.9804	.303	.053
12	19	76.470	88.048	81.813	3.1934	-.155	-.482		12	23	74.359	85.650	80.325	2.9062	.001	-.381
13	21	76.052	92.406	84.788	4.2007	.009	-.525	**	13	20	75.397	86.856	82.152	2.8249	-.332	-.079
14	10	79.021	90.763	85.618	4.4684	-.251	-1.286		14	11	75.695	87.543	83.105	3.5351	-.619	-.157



LINEAR MEASUREMENT VARIABLE 164



Sella-A Point

S-A

35-9

Male Indian

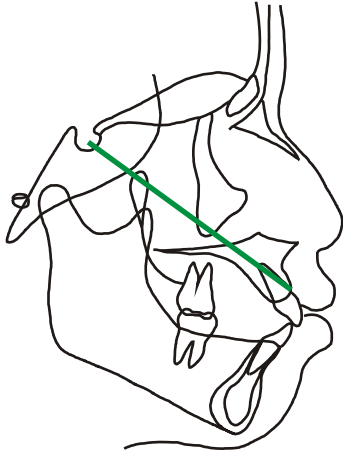
Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	14	67.179	74.721	71.570	2.0791	-.421	-.288
6	22	67.671	78.019	73.341	2.6065	-.080	-.289
7	20	69.409	81.135	75.145	3.0753	.023	-.433 **
8	23	71.865	81.478	76.111	2.5438	.142	-.717 **
9	23	73.151	81.554	77.819	2.0177	-.254	-.205 **
10	21	74.979	81.875	79.198	2.2367	-.325	-1.266 **
11	21	76.093	85.659	80.447	2.6415	.047	-1.016 **
12	19	76.849	87.739	81.696	2.9471	.217	-.538
13	21	80.285	91.905	84.739	3.6411	.458	-.898 **
14	10	80.527	90.974	85.948	3.6283	-.143	-1.316

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	64.575	74.391	70.106	2.6425	-.538	-.347
6	19	65.653	75.167	70.724	2.4726	-.108	-.463
7	23	68.506	77.134	72.629	2.7447	-.056	-1.298
8	23	68.330	78.232	73.677	2.8181	-.088	-.965
9	22	69.878	80.990	75.427	2.8066	-.295	-.189
10	19	70.507	81.335	76.690	2.9294	-.344	-.703
11	22	72.833	84.236	78.236	2.6003	-.091	.486
12	23	75.478	86.274	80.408	2.7414	.178	-.291
13	19	79.080	86.406	82.159	2.2328	.602	-.854
14	11	74.789	88.242	83.280	3.5618	-1.045	1.137



LINEAR MEASUREMENT VARIABLE 165



Sella-Supradentale

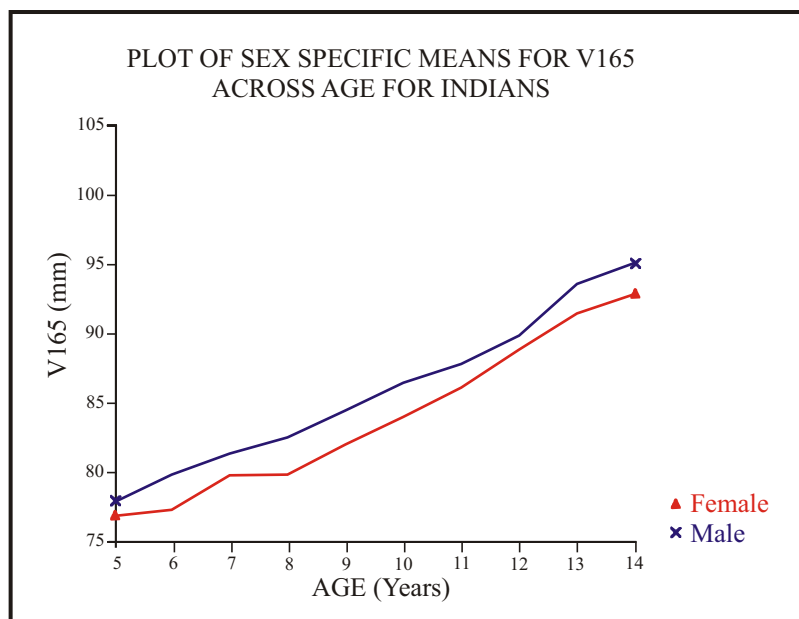
S-SD

35-8

Male Indian

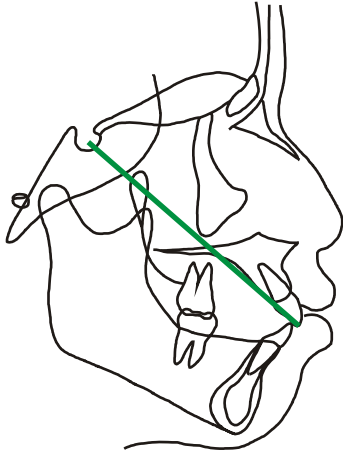
Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis		Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	14	74.211	82.245	78.170	2.5546	-.048	-1.017		5	15	71.498	81.963	77.142	3.0955	.032	-.752
6	22	73.406	85.514	80.274	3.1781	-.328	-.271	**	6	20	70.610	83.029	77.611	3.5296	-.383	-.712
7	20	72.440	88.729	81.865	3.8130	-.442	.662		7	23	74.044	88.181	80.221	3.6920	.123	-.650
8	22	79.296	88.007	83.090	2.4534	.200	-.772	**	8	23	72.282	87.831	80.275	3.5969	.046	-.006
9	23	81.313	89.035	85.127	2.0891	-.286	-.738	**	9	22	73.497	90.374	82.554	3.9329	-.269	.062
10	21	82.403	90.409	87.226	2.1118	-.425	-.480	**	10	19	77.981	88.659	84.644	3.2285	-.640	-.596
11	20	85.193	93.514	88.649	2.1537	.102	-.404	**	11	22	79.938	95.238	86.860	3.3820	.113	.723
12	19	86.706	96.193	90.797	2.3360	.210	.005		12	22	85.281	96.415	89.736	2.6788	.517	.140
13	21	90.342	103.20	94.705	3.3932	.847	-.053	**	13	19	87.856	97.854	92.473	2.7840	.241	-.853
14	10	93.220	102.02	96.305	2.8118	.713	-.392		14	11	83.254	98.755	93.944	4.4676	-1.195	.995



LINEAR MEASUREMENT

VARIABLE 166



Sella-Upper Incisor Incisal Edge

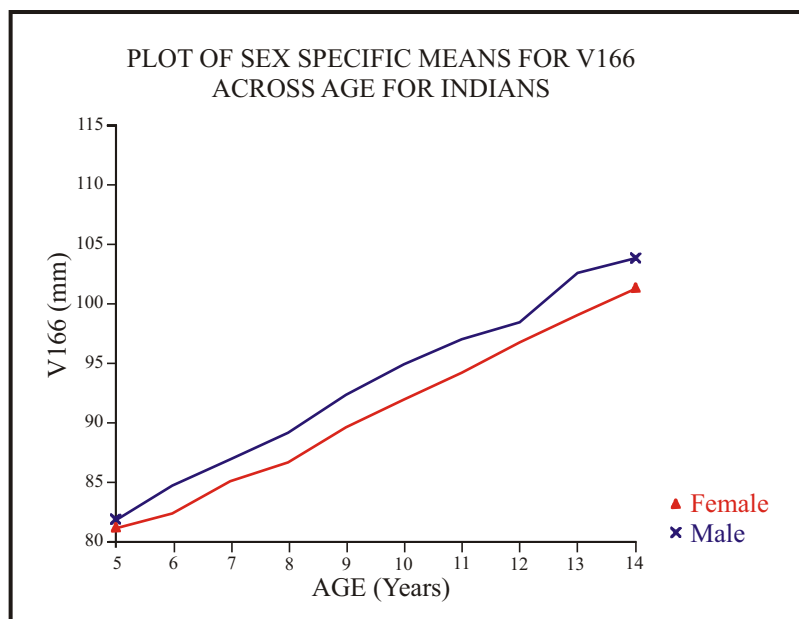
S-UIE

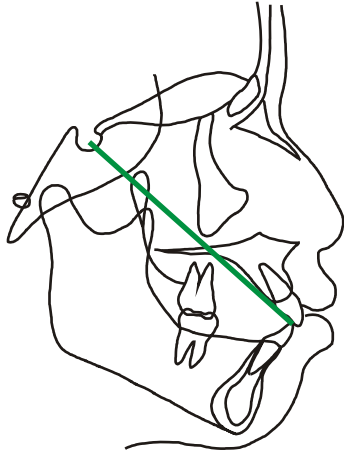
35-7

Male Indian

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis		Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	14	74.928	86.378	81.893	3.0171	-.629	.152		5	15	75.359	87.181	81.224	3.4831	-.027	-.683
6	21	78.814	91.128	85.030	3.1755	.170	-.538	**	6	18	77.399	87.013	82.570	3.0710	-.083	-1.123
7	18	78.735	92.937	87.345	3.5678	-.533	.237		7	22	79.637	92.353	85.415	3.3706	.034	-.742
8	21	84.291	94.911	89.698	2.5491	.040	-.299	**	8	23	80.595	95.679	87.080	3.8338	-.076	-.363
9	22	87.341	97.501	93.045	2.4398	-.282	.025	**	9	22	81.814	98.662	90.178	4.2309	-.048	-.306
10	21	90.829	100.40	95.740	2.6116	-.012	-.648	**	10	19	85.290	97.420	92.627	3.8820	-.470	-.902
11	21	92.899	104.07	97.953	2.9573	.354	-.354	**	11	22	87.280	104.70	94.999	4.0547	.163	.313
12	19	94.863	105.04	99.452	2.6279	.398	-.153		12	23	89.159	106.42	97.677	3.7109	.058	.393
13	21	98.690	112.16	103.81	3.5883	.819	-.185	**	13	20	91.775	106.51	100.09	3.6668	-.288	-.321
14	10	100.10	111.35	105.11	3.3915	.409	-.675		14	11	92.245	107.82	102.41	4.5758	-.942	.252





LINEAR MEASUREMENT

VARIABLE 167

Sella-Lower Incisor Incisal Edge

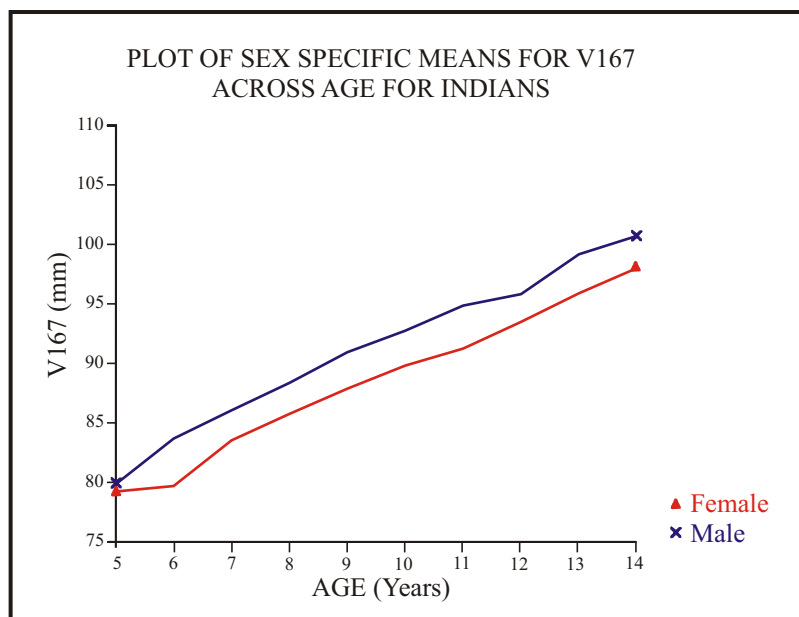
S-LIE

35-6

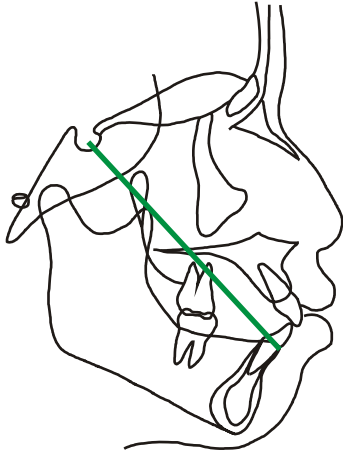
Male Indian

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis		Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	72.466	86.082	79.876	3.2928	-.329	.326		5	15	73.018	85.900	79.233	4.1632	-.102	-.989
6	22	79.458	90.091	83.906	2.7614	.413	-.499	**	6	20	68.990	86.635	79.718	4.4867	-.529	-.152
7	20	80.566	91.503	86.402	2.7656	.164	-.224	*	7	23	76.162	90.891	83.750	3.7093	-.062	-.712
8	23	83.664	95.356	88.824	2.9324	.186	-.204	**	8	23	78.191	93.755	86.086	3.7224	.137	-.305
9	23	85.908	95.284	91.532	2.4647	-.366	-.499	**	9	22	81.014	96.543	88.313	3.9465	.203	-.581
10	21	88.972	98.958	93.432	2.4170	.276	-.332	**	10	19	82.903	96.544	90.352	3.7189	-.037	-.725
11	20	91.713	99.843	95.649	2.3242	.032	-.671	**	11	22	83.076	98.520	91.954	3.8278	-.385	-.361
12	19	91.584	101.19	96.662	2.5147	-.168	-.340	**	12	23	88.796	101.52	94.212	3.2943	.233	-.562
13	21	94.793	106.12	100.18	2.9712	.233	-.253	**	13	20	88.613	104.57	96.735	3.9884	-.157	-.569
14	10	97.174	107.03	101.80	3.2258	.277	-.811		14	11	91.545	105.98	98.958	4.7035	-.312	-.915



LINEAR MEASUREMENT VARIABLE 168



Sella-Infradentale

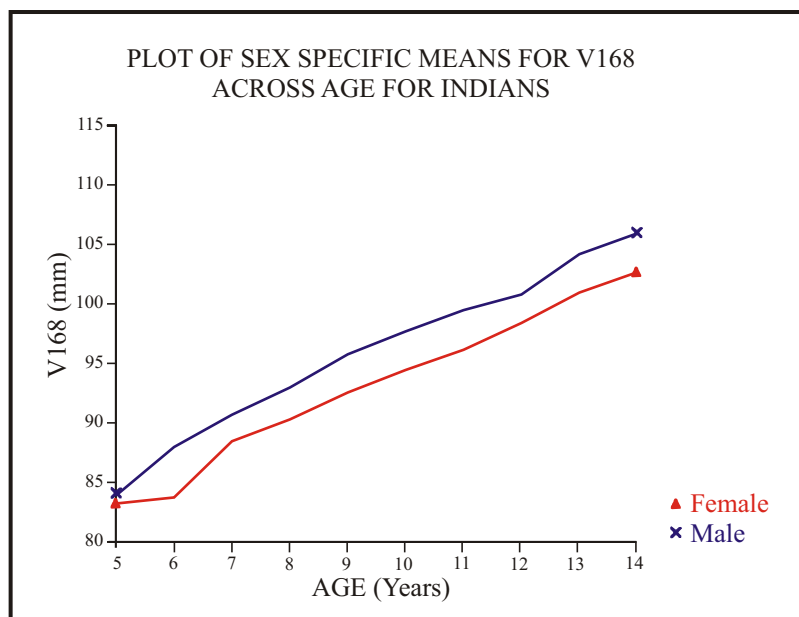
S-ID

35-5

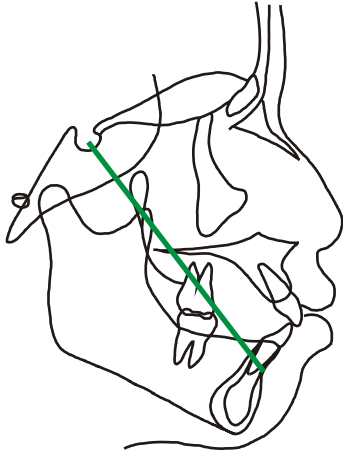
Male Indian

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis		Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	77.163	90.815	83.852	3.4489	.244	-.054		5	15	76.398	90.126	83.133	4.2959	-.040	-.932
6	22	83.978	94.126	88.123	2.9037	.241	-.927	**	6	20	72.782	90.930	83.669	4.6483	-.418	-.257
7	20	85.013	97.405	90.973	2.9204	.229	.150		7	23	82.656	95.846	88.633	3.5546	.218	-.612
8	23	87.490	99.631	93.375	3.1719	.025	-.431	**	8	23	84.568	98.897	90.558	3.4633	.444	-.202
9	23	91.978	100.18	96.308	2.4796	-.021	-1.090	**	9	22	86.593	101.24	92.936	3.7841	.288	-.611
10	21	95.025	102.79	98.333	2.4470	.359	-1.047	**	10	19	89.673	100.50	94.926	3.6072	.096	-1.152
11	21	95.205	105.41	100.21	3.0030	-.131	-.968	**	11	22	89.919	103.48	96.708	3.5076	-.311	-.567
12	19	96.417	107.50	101.59	2.9982	.087	-.708	**	12	23	92.741	106.42	99.076	3.1667	.087	.001
13	21	99.083	113.01	105.15	3.2270	.704	.378	**	13	20	93.993	110.45	101.76	3.9109	-.044	-.081
14	10	103.23	112.66	106.99	2.9557	.655	-.453	**	14	11	96.514	109.02	103.56	4.2689	-.333	-1.101



LINEAR MEASUREMENT VARIABLE 169



Sella-B Point

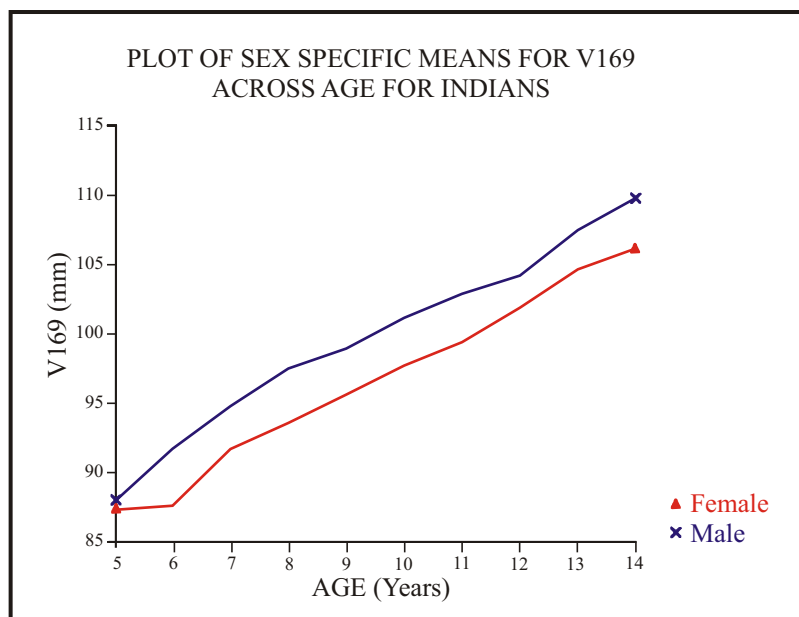
S-B

35-4

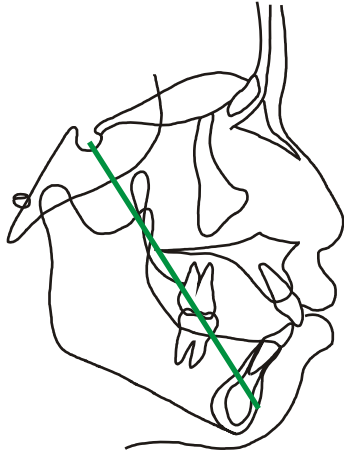
Male Indian

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis		Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	83.823	94.903	87.998	3.2013	.698	-.429		5	15	81.207	93.923	87.369	3.8130	.096	-.752
6	22	87.867	97.630	91.992	2.8906	.124	-1.167	**	6	20	77.150	93.701	87.681	4.6762	-.478	-.662
7	20	90.028	102.61	95.216	3.1965	.458	.023	**	7	23	86.411	98.945	91.971	3.6334	.218	-.676
8	23	90.051	103.06	97.065	3.2517	-.046	-.294	**	8	23	87.676	101.28	93.946	3.6075	.296	-.291
9	23	95.159	103.76	99.576	2.6972	.124	-1.116	**	9	22	89.056	103.88	96.092	3.7160	.119	-.631
10	21	98.123	106.70	101.90	2.7433	.322	-1.031	**	10	19	91.786	103.27	98.287	3.5661	-.199	-.893
11	21	98.897	108.52	103.72	3.0710	-.029	-1.267	**	11	22	93.587	105.86	100.06	3.7764	-.360	-.836
12	19	99.016	113.28	105.10	3.4925	.411	-.144	*	12	23	94.459	108.99	102.67	3.3309	-.613	.394
13	21	103.54	117.89	108.54	3.3540	1.241	1.167	**	13	20	97.775	114.16	105.57	4.1918	-.237	-.107
14	10	105.76	117.74	110.97	3.5352	.757	-.133	**	14	11	99.653	112.20	107.15	4.1973	-.573	-.685



LINEAR MEASUREMENT VARIABLE 170



Sella-Pogonion

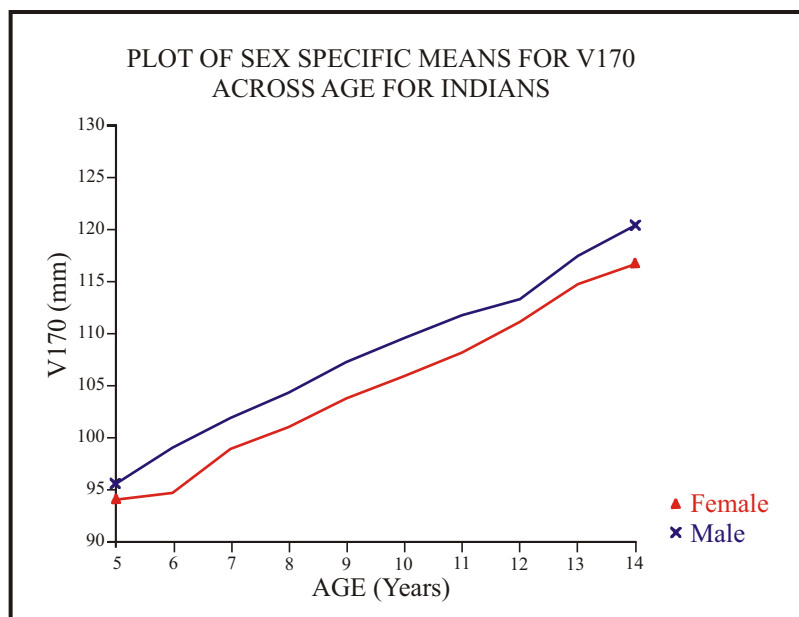
S-PG

35-3

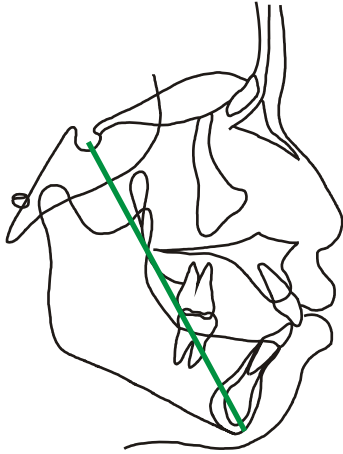
Male Indian

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis		Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	92.187	100.81	95.414	2.6869	.689	-.707		5	15	86.548	100.04	93.879	4.1298	-.169	-.781
6	22	94.433	105.73	99.142	3.1329	.217	-.841	**	6	20	82.890	101.98	94.578	4.9696	-.594	-.438
7	20	96.267	109.90	102.14	3.3072	.576	.018	**	7	23	90.873	106.66	99.012	4.4181	-.016	-.784
8	23	98.447	111.51	104.68	2.8854	.235	.598	**	8	23	92.964	106.96	101.21	4.0663	-.293	-.613
9	23	102.80	113.69	107.78	2.8399	.352	-.631	**	9	22	95.220	110.82	104.11	4.2827	-.163	-.662
10	21	105.53	115.01	110.20	2.9882	.247	-1.084	**	10	19	98.100	112.82	106.36	4.2818	-.295	-.642
11	21	106.99	119.66	112.51	3.4708	.167	-.650	**	11	22	100.03	115.38	108.74	4.3563	-.610	-.513
12	19	107.53	120.99	114.13	3.3317	.232	-.153		12	23	102.50	119.32	111.84	3.9284	-.397	.162
13	21	114.43	127.52	118.49	3.4926	1.379	1.114	*	13	20	107.05	124.92	115.64	4.8216	-.081	-.550
14	10	113.90	127.08	121.60	3.6608	-.581	.309	**	14	11	109.90	123.30	117.68	4.4472	-.216	-1.074



LINEAR MEASUREMENT VARIABLE 171



Sella-Gnathion

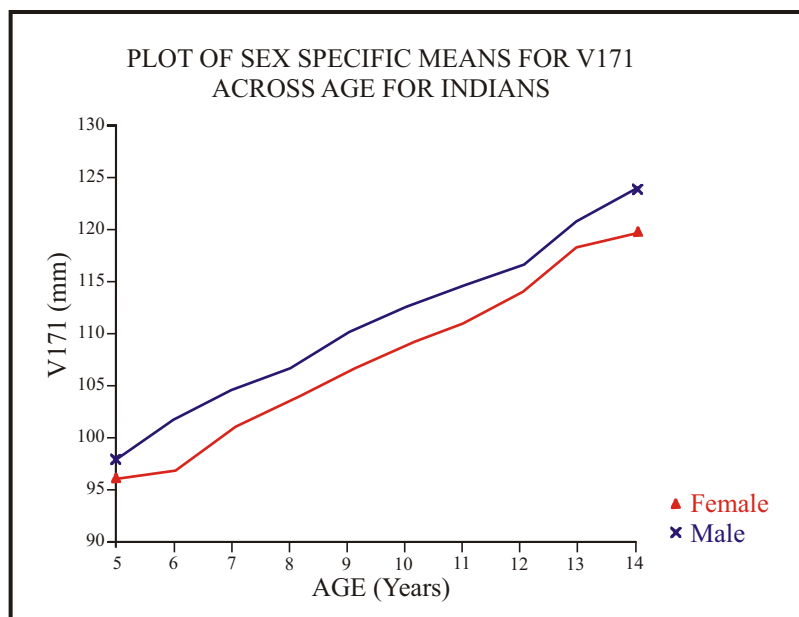
S-GN

35-2

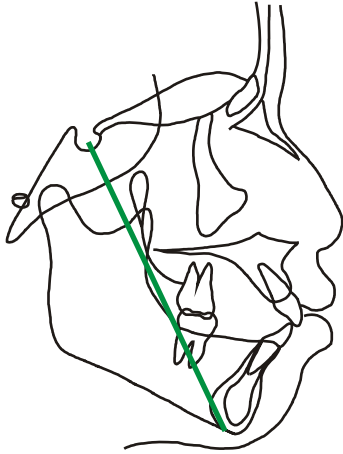
Male Indian

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis		Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	93.613	101.78	97.447	2.5865	.265	-1.213		5	15	88.749	103.99	96.079	4.4100	-.043	-.623
6	22	97.155	106.81	101.33	2.9351	.093	-1.102	**	6	20	84.747	103.71	96.578	5.0204	-.602	-.423
7	20	98.829	111.91	104.17	3.2491	.545	.015	**	7	23	93.619	108.27	100.90	4.2619	0.25	-.840
8	22	100.62	110.82	106.22	2.4745	-.126	.252	**	8	23	95.685	108.96	103.10	4.0423	-.275	-.692
9	23	105.14	115.24	109.86	2.7134	.336	-.628	**	9	22	97.079	112.73	106.12	4.1823	-.123	-.554
10	21	107.61	116.67	112.36	2.8234	.146	-.968	**	10	19	100.51	114.98	108.48	4.2960	-.209	-.726
11	21	109.21	120.32	114.49	3.2790	.164	-.893	**	11	22	101.89	117.33	110.78	4.4069	-.514	-.580
12	19	110.19	122.78	116.47	3.3506	.144	-.724		12	23	104.65	121.49	114.00	3.8681	-.415	.224
13	21	116.50	129.23	120.58	3.4190	1.442	1.276	*	13	20	108.95	127.26	117.70	4.9164	-.102	-.589
14	10	116.79	129.44	123.77	3.5002	-.377	.012	**	14	11	112.52	125.24	119.65	4.6434	-.092	-1.278



LINEAR MEASUREMENT VARIABLE 172



Sella-Menton

S-ME

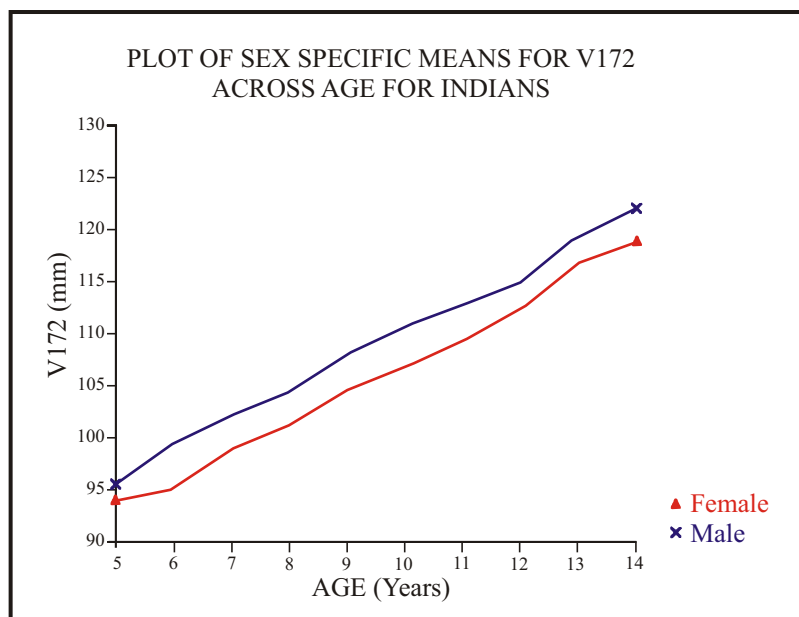
35-1

Male Indian

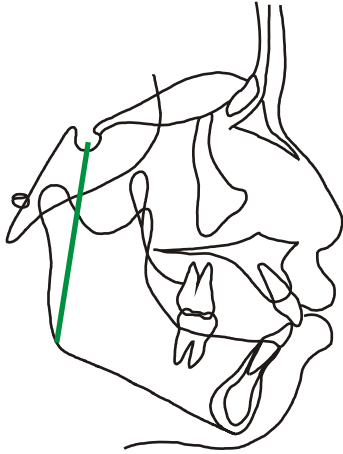
Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	91.167	99.715	95.482	2.7203	.037	-1.286
6	22	94.525	105.51	99.270	3.1125	.077	-.945 **
7	20	95.357	109.82	102.11	3.4888	.276	-.162 *
8	22	98.248	108.69	104.35	2.6000	-.442	-.030 **
9	23	102.86	113.40	108.04	2.8615	.110	-.758 **
10	21	104.52	115.37	110.58	3.1424	.033	-.784 **
11	21	108.18	118.64	112.73	3.1806	.315	-1.030 **
12	19	109.16	121.60	114.80	3.5246	.275	-.769
13	21	113.63	127.88	118.79	3.6470	1.305	1.214
14	10	114.35	127.95	121.75	3.6845	-.411	.127 *

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	86.224	102.15	94.128	4.6749	-.209	-.678
6	19	87.801	101.97	95.296	4.1009	-.156	-1.087
7	23	92.015	106.30	98.937	4.3287	-.014	-.932
8	23	93.360	107.16	101.30	4.0998	-.263	-.778
9	22	94.662	112.03	104.49	4.5267	-.103	-.540
10	19	98.466	113.90	106.81	4.6252	-.129	-.770
11	22	99.475	115.79	109.17	4.6710	-.430	-.799
12	23	102.57	120.18	112.41	4.1417	-.368	-.043
13	20	107.27	127.28	116.32	5.3324	.025	-.599
14	11	111.64	124.55	118.35	4.9825	.025	-1.444



LINEAR MEASUREMENT VARIABLE 173



Sella-Gonion

S-GO

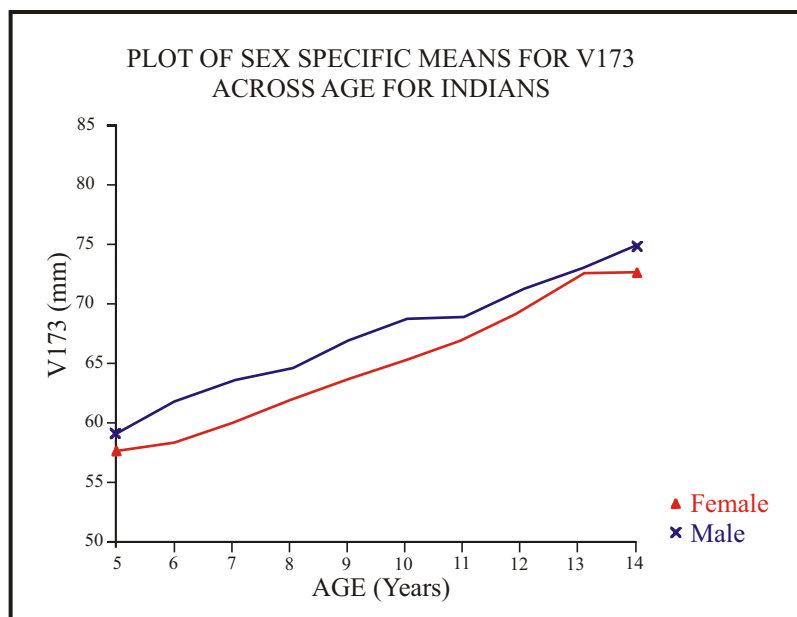
35-27

Male Indian

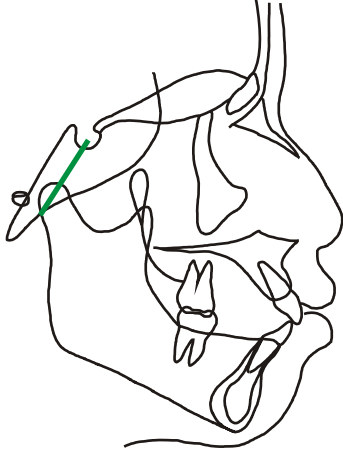
Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	14	54.229	66.703	58.971	3.0580	.947	1.080
6	22	55.396	69.040	61.687	3.4504	.396	-.291 **
7	20	57.424	71.044	63.607	3.5530	.362	-.466 **
8	23	59.284	70.099	64.543	2.9534	.309	-.699 **
9	23	61.844	74.538	67.058	3.2388	.560	-.110 **
10	21	62.397	74.764	68.700	3.3576	.052	-.765 **
11	20	64.577	75.467	69.028	2.9565	.343	-.666
12	19	65.994	78.162	71.174	3.4100	.471	-.669
13	21	67.841	79.009	73.187	3.0406	.181	-.600
14	10	72.329	81.271	75.231	2.9721	.832	-.439

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	52.063	62.368	57.481	2.9562	.048	-.780
6	20	51.273	63.657	58.174	3.5251	-.339	-.761
7	23	54.729	67.620	59.879	3.3846	.736	-.236
8	23	57.628	69.400	61.919	3.3498	.476	-.693
9	22	58.138	70.545	63.633	3.8323	.454	-1.076
10	19	60.509	71.639	65.374	3.3478	.383	-.913
11	22	60.461	74.145	66.964	3.9882	.113	-1.048
12	23	63.338	77.864	69.454	4.0259	.129	-.824
13	20	62.476	79.259	72.630	4.8897	-.201	-.870
14	11	65.792	81.531	72.721	4.5590	.331	-.580



LINEAR MEASUREMENT VARIABLE 174



Sella-Articulare, Posterior

S-AR

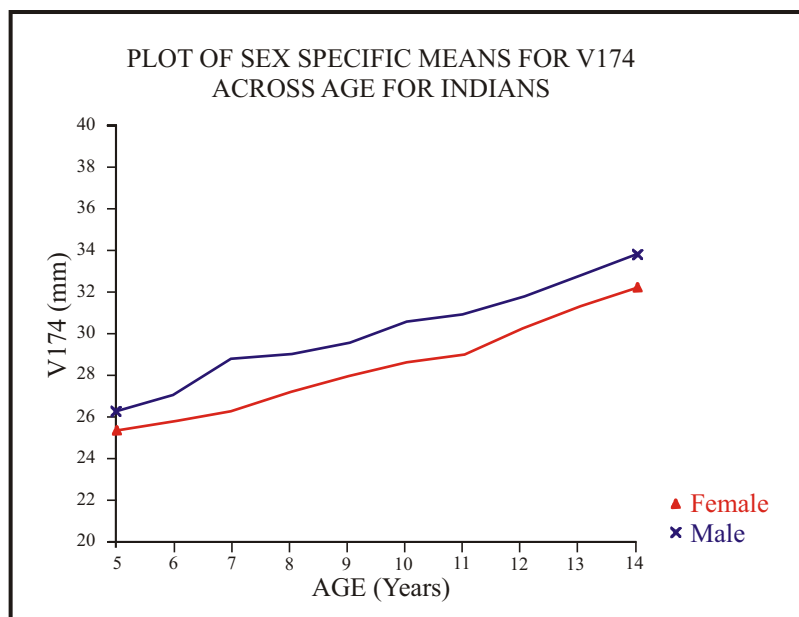
35-31

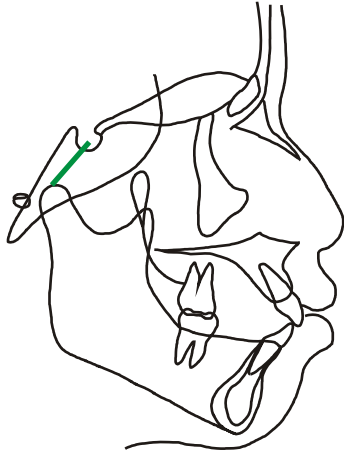
Male Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	14	23.919	30.177	26.237	1.6924	.822	.245
6	22	24.962	29.080	27.006	1.4931	.052	-1.476 **
7	20	25.648	32.019	28.871	1.8060	-.205	-.943 **
8	23	24.586	32.660	29.054	1.7792	-.215	.428 **
9	23	24.782	33.572	29.657	2.1437	-.398	-.105 **
10	21	27.061	34.869	30.705	1.9764	.515	-.117 **
11	21	26.293	34.862	30.904	2.2331	-.394	-.472 *
12	19	27.643	35.510	31.759	2.3447	-.268	-.880 *
13	21	30.101	36.498	32.900	1.9404	.252	-.937 **
14	10	29.803	39.588	33.902	2.7876	.567	-.016

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	20.375	30.243	25.259	2.4152	-.170	.246
6	20	22.579	29.013	25.750	1.6341	-.275	-.243
7	23	22.174	29.908	26.214	1.6844	-.068	.336
8	22	24.158	30.278	27.220	1.6074	-.345	-.304
9	22	23.880	32.962	27.936	2.1944	.237	-.175
10	19	25.754	33.334	28.645	1.9957	.573	-.178
11	22	23.827	33.392	29.055	2.5376	-.196	-.682
12	23	26.839	34.087	30.265	2.0616	-.104	-1.036
13	20	27.044	34.054	31.291	1.8778	-.557	-.643
14	11	29.173	35.007	32.246	2.2086	-.055	-1.553





LINEAR MEASUREMENT VARIABLE 175

Sella-Condylion

S-CO

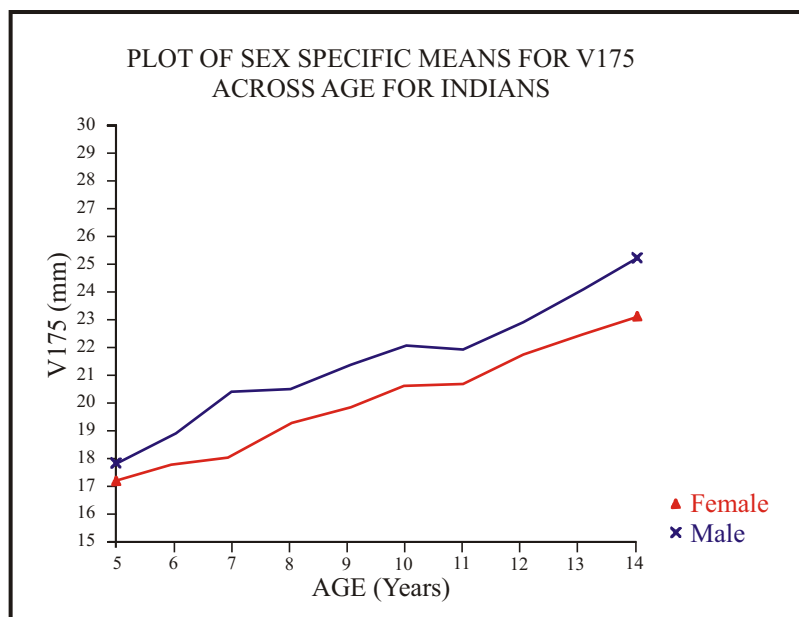
35-33

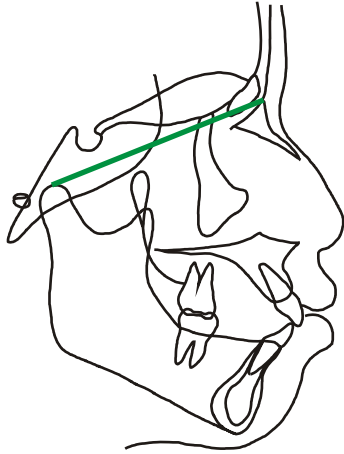
Male Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	14	14.648	21.166	17.773	1.8829	.232	-.694
6	22	16.009	21.880	18.894	2.0787	.120	-1.544 **
7	20	17.840	23.435	20.432	1.8004	.208	-1.343 **
8	22	18.027	23.135	20.534	1.3123	-.018	-.424 **
9	23	17.247	25.111	21.240	2.0765	.068	-.917 **
10	21	19.098	26.897	22.116	2.2027	.548	-.615 *
11	20	18.360	24.662	21.883	1.8824	-.426	-.838
12	19	18.339	27.674	22.855	2.4755	.307	-.361
13	21	20.298	27.402	24.095	2.1619	-.200	-1.010 *
14	10	21.019	31.781	25.232	2.8229	1.015	1.242 *

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	13.751	20.599	17.195	1.9976	.156	-.738
6	20	14.042	20.309	17.768	1.8157	-.454	-.742
7	22	15.248	20.846	18.089	1.3468	.029	.087
8	22	14.876	21.628	19.292	1.6034	-.849	.572
9	22	15.927	23.909	19.799	1.9830	-.091	-.429
10	19	17.714	24.225	20.641	1.9694	.168	-.933
11	22	16.179	27.740	20.652	2.9531	.402	-.070
12	23	17.607	25.201	21.746	2.1503	-.137	-.774
13	20	19.001	25.431	22.534	1.9008	-.230	-1.032
14	11	20.047	25.946	23.139	2.1866	-.148	-1.491





LINEAR MEASUREMENT VARIABLE 176

Nasion- Condylion

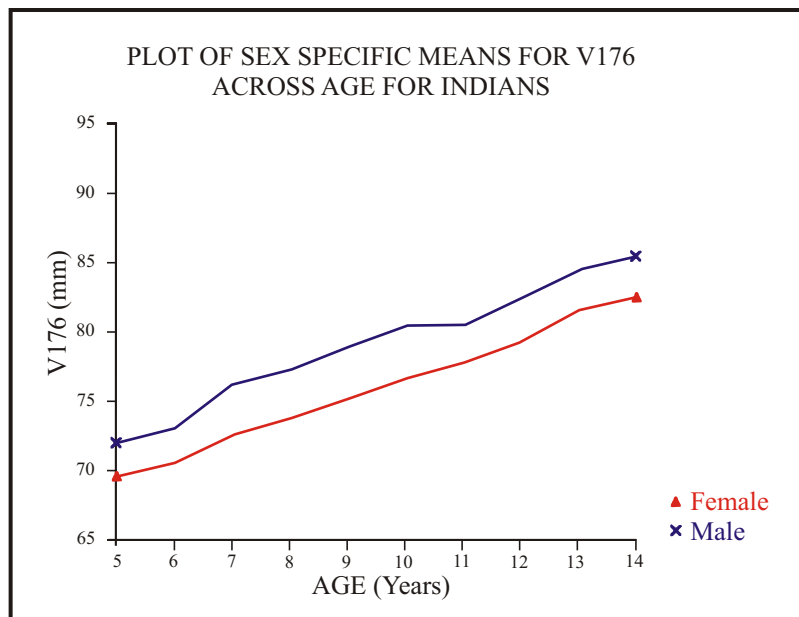
N-CO

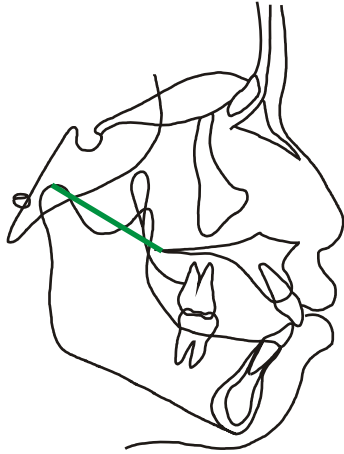
38-33

Male Indian

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis		Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	14	69.186	74.853	71.784	1.7907	-.146	-.991	**	5	15	64.008	72.663	69.305	2.3416	-.467	-.109
6	22	63.356	77.867	72.996	3.0606	-1.256	2.648	**	6	19	67.090	73.914	70.557	1.8222	-.082	-.701
7	19	71.349	82.819	76.079	3.0692	.471	-.519	**	7	22	68.869	75.217	72.478	1.8228	-.221	-.872
8	22	71.934	83.514	77.211	3.0044	.089	-.486	**	8	23	69.946	77.299	73.732	2.2771	-.059	-1.086
9	22	73.094	87.354	78.828	3.0061	.565	1.469	**	9	22	71.528	79.204	75.218	2.0556	.115	-.821
10	20	75.446	88.517	80.410	3.2195	.669	.180	**	10	19	72.304	80.734	76.689	2.1365	.055	-.547
11	19	75.177	84.661	80.529	3.0254	-.188	-1.025	**	11	22	73.582	81.270	77.832	2.3682	-.394	-.993
12	18	77.775	89.986	82.672	3.2182	.328	-.260	**	12	23	75.167	81.709	79.456	1.7733	-.685	-.318
13	21	74.243	94.498	84.632	4.4830	.138	.401	**	13	19	78.915	87.372	81.745	2.1357	.985	.670
14	10	75.904	93.882	85.536	4.8192	-.375	.191	*	14	11	79.753	84.801	82.561	2.0752	-.266	-1.558





LINEAR MEASUREMENT VARIABLE 177

Condylion-Posterior Nasal Spine

CO-PNS

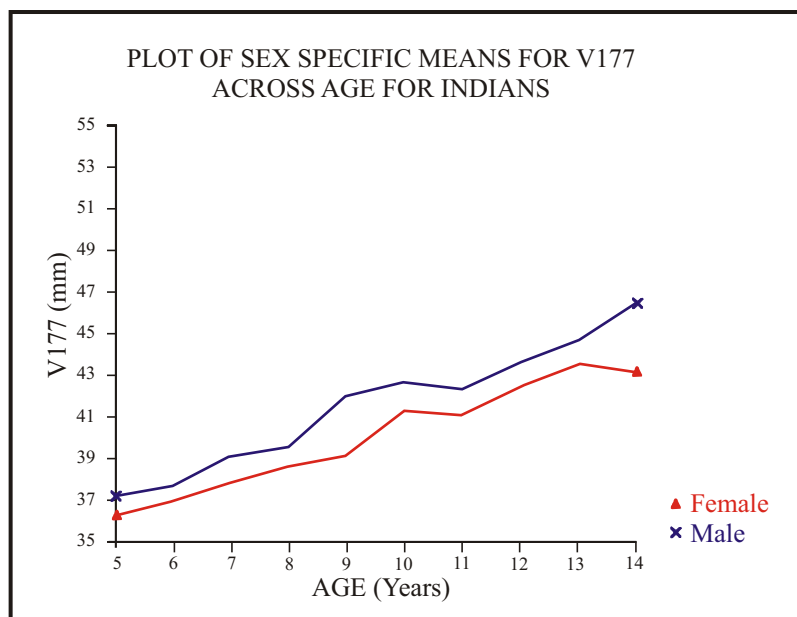
33-45

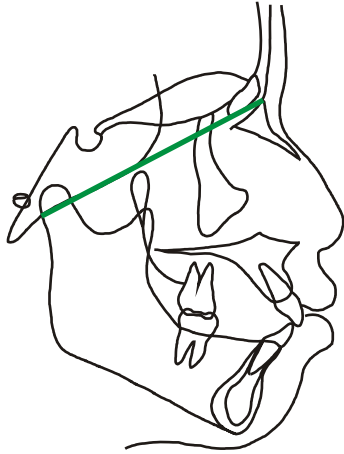
Male Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	14	33.579	42.150	37.158	2.1959	.394	.297
6	22	32.601	42.942	37.624	2.6066	.051	-.291
7	20	31.942	45.476	39.125	3.5481	.389	-.314
8	23	33.350	45.321	39.567	3.2653	.082	-.753
9	23	36.446	47.859	41.958	3.1811	.416	-.805 **
10	21	35.605	50.091	42.677	3.2472	-.190	.277
11	20	38.724	46.962	42.259	1.9042	.185	.345
12	19	39.075	47.140	43.641	2.2368	-.241	-.824
13	21	38.895	50.554	44.710	2.9123	.061	-.211
14	10	42.465	52.755	46.592	3.5348	.400	-1.116 **

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	32.436	41.425	36.205	2.4674	.427	-.384
6	20	31.251	41.370	36.905	2.5649	-.382	.018
7	23	33.581	43.147	37.825	2.6031	.477	-.416
8	23	33.489	44.747	38.617	3.0097	.272	-.470
9	21	35.508	42.559	39.105	2.0016	-.242	-.625
10	19	37.524	45.918	41.275	2.4358	.110	-.962
11	21	36.692	44.017	41.131	2.2445	-.592	-.832
12	23	36.169	50.332	42.417	3.3216	-.030	.149
13	20	37.102	48.224	43.508	3.2997	-.263	-.933
14	11	39.133	46.347	43.112	2.5935	-.458	-1.283





LINEAR MEASUREMENT VARIABLE 178

Nasion- Articulare, Posterior

N-AR

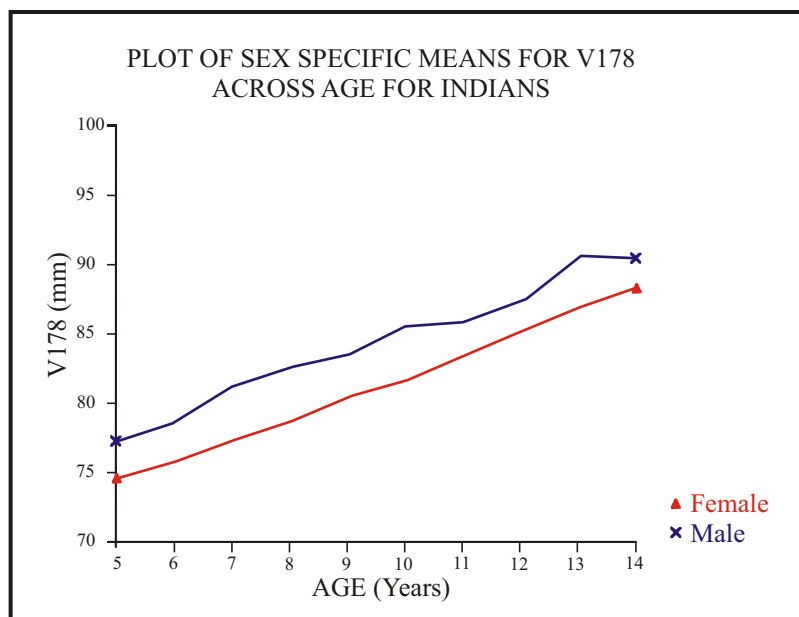
38-31

Male Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis	
5	14	73.746	79.835	76.953	1.9309	-.239	-.970	**
6	21	74.707	81.731	78.403	2.0100	-.035	-.731	**
7	19	76.037	88.054	81.018	3.1224	.532	-.267	**
8	22	77.185	89.154	82.352	2.9639	.343	-.148	**
9	21	78.173	86.835	83.387	2.3438	-.403	-.488	**
10	20	80.444	93.951	85.421	3.0936	.903	1.035	**
11	19	80.704	90.349	85.713	3.0358	-.020	-1.012	**
12	19	77.287	96.400	87.427	4.2257	-.285	.520	**
13	20	85.020	99.048	90.341	3.5927	.885	.209	**
14	10	80.762	99.650	90.587	4.9764	-.214	.312	

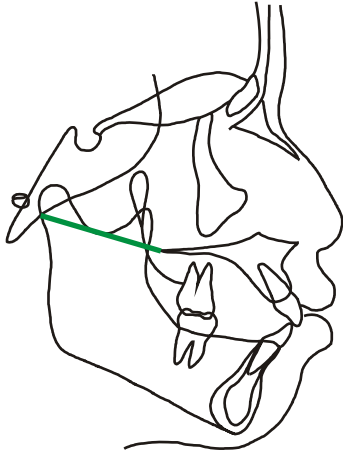
Female Indian

Age	N	Minimun	Maximun	Mean	Std Dev	Skewness	Kurtosis	
5	15	70.071	77.446	74.171	1.9277	-.254	-.387	
6	19	72.224	79.516	75.464	1.6282	.248	.766	
7	23	73.311	80.533	77.160	2.0103	-.325	-.822	
8	23	74.636	82.346	78.504	2.3014	-.230	-.888	
9	22	76.243	84.123	80.276	2.1852	.016	-.605	
10	19	77.962	85.229	81.555	2.0897	.175	-.765	
11	22	79.547	86.713	83.038	2.0961	-.249	-1.041	
12	23	81.534	87.311	84.837	1.7201	-.222	-1.064	
13	20	81.211	92.325	86.772	2.4984	.115	.313	
14	11	84.450	91.303	88.147	2.3271	-.265	-1.295	



LINEAR MEASUREMENT

VARIABLE 179



**Articulare, Posterior-
Posterior Nasal Spine**

AR-PNS

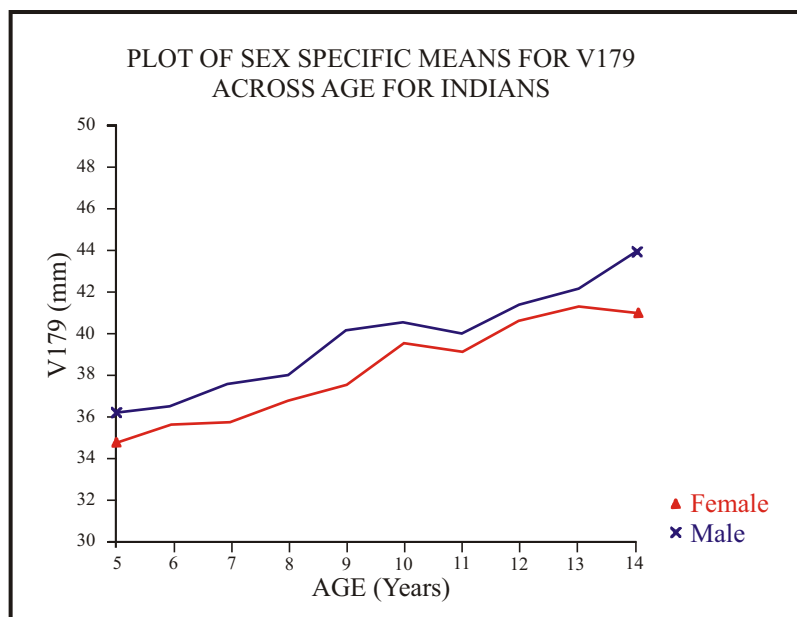
31-45

Male Indian

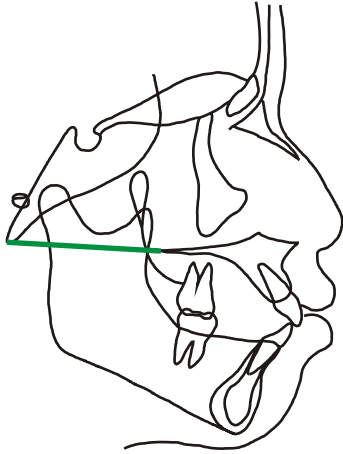
Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	14	33.285	42.424	36.060	2.5965	1.238	.752
6	22	31.385	41.290	36.410	2.5485	.255	-.345
7	20	31.782	43.719	37.419	3.3157	.477	-.286 *
8	23	33.523	43.476	37.904	2.9510	.137	-.956
9	23	34.068	46.382	40.014	2.8377	.474	.089 **
10	21	35.918	45.289	40.395	2.5123	.284	-.609
11	20	36.152	43.301	39.926	2.0755	-.350	-.910
12	19	36.071	45.130	41.305	2.3340	-.218	-.422
13	21	36.041	46.406	42.070	2.7785	-.341	-.607
14	10	37.689	51.515	43.874	3.8766	.290	-.021 **

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	14	31.027	38.098	34.525	1.6605	-.192	-.320
6	20	30.404	39.748	35.470	2.4901	-.334	-.117
7	22	30.075	39.647	35.548	2.0967	-.465	.953
8	22	32.767	40.820	36.605	2.1051	.283	-.623
9	21	34.354	40.005	37.409	1.6647	-.159	-.838
10	19	35.854	43.046	39.432	2.1509	-.194	-.954
11	21	36.115	42.063	39.030	1.7753	-.005	-.966
12	23	34.171	45.582	40.524	2.7242	-.401	-.189
13	20	36.254	46.460	41.182	3.0102	-.174	-.991
14	11	37.391	44.585	40.888	2.5179	-.192	-1.219



LINEAR MEASUREMENT VARIABLE 180



Basion-Posterior Nasal Spine

BA-PNS

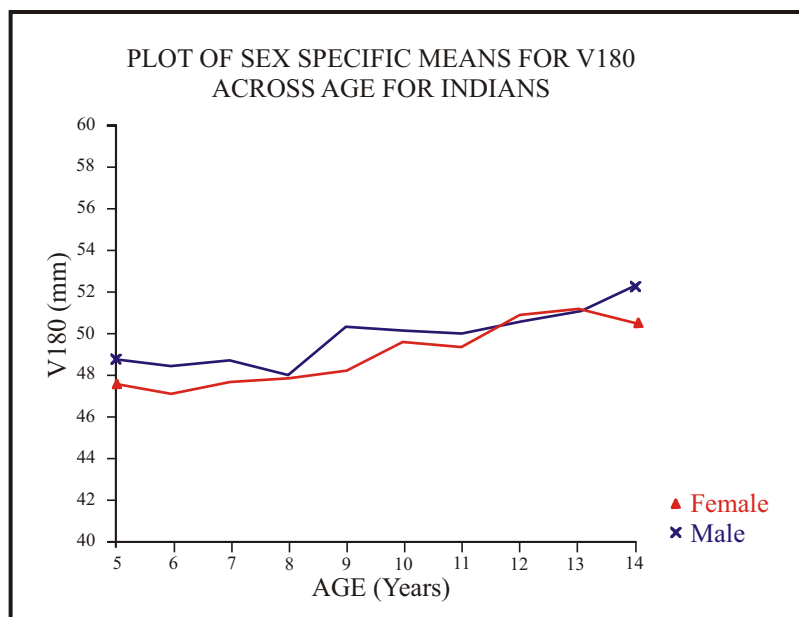
30-45

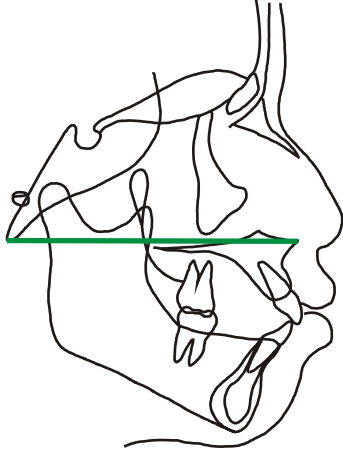
Male Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	14	44.639	56.904	48.498	3.4717	1.050	.401
6	22	42.952	53.196	48.363	2.7594	-.429	-.623
7	20	40.919	55.946	48.600	3.5331	.122	.000
8	23	43.185	53.702	48.002	2.8173	.298	-.731
9	23	43.696	54.946	50.213	2.7960	-.226	-.353 **
10	21	45.484	55.705	50.098	2.7583	.273	-.785
11	21	44.949	55.533	49.852	3.0859	.146	-.929
12	19	45.187	55.255	50.540	2.7066	-.123	-.616
13	21	42.839	58.694	50.979	3.9256	-.129	-.541
14	10	44.654	59.230	52.187	3.9387	-.256	.115

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	42.018	51.454	47.384	2.9268	-.348	-.710
6	20	40.895	51.792	47.009	3.1993	-.207	-1.080
7	22	43.040	52.525	47.458	2.2062	.339	-.171
8	23	42.730	52.212	47.689	2.4020	.018	-.154
9	22	44.436	51.742	48.008	2.0825	.264	-.873
10	19	45.756	53.254	49.535	2.3100	-.026	-1.166
11	21	45.796	53.068	49.268	2.1571	-.010	-1.136
12	23	44.056	54.948	50.752	2.8966	-.821	-.120
13	20	46.116	54.656	50.937	2.7970	-.325	-1.219
14	11	46.781	55.127	50.519	2.5809	.318	-.673





LINEAR MEASUREMENT VARIABLE 181

Basion-Anterior Nasal Spine

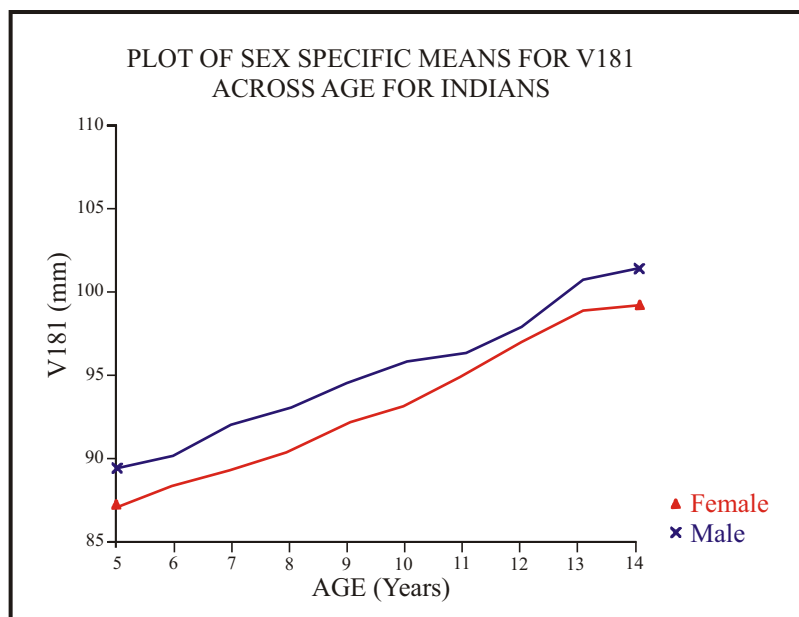
BA-ANS

30-10

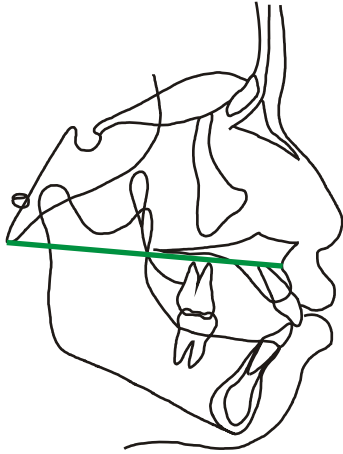
Male Indian

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis		Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	14	85.254	94.850	89.268	2.8613	.395	-.926	*	5	15	83.330	92.869	86.962	3.0369	.563	-.906
6	22	85.220	95.605	90.268	2.6749	-.171	-.596	*	6	20	81.811	97.723	88.114	4.0069	.668	-.027
7	20	85.423	97.898	91.880	3.3429	-.557	-.017	**	7	22	83.351	92.634	89.280	2.4878	-.664	-.201
8	23	85.160	97.877	92.961	3.2522	-.504	-.076	**	8	23	83.424	94.861	90.221	2.8452	-.290	-.023
9	23	87.340	100.99	94.495	2.9903	-.133	.292	**	9	21	85.058	97.883	92.025	2.8582	-.012	.490
10	21	88.070	103.73	95.797	3.7204	-.035	-.246	**	10	19	86.099	97.901	93.147	2.9655	-.506	-.016
11	21	88.724	103.56	96.453	3.5734	.004	-.263		11	21	89.718	100.31	94.953	3.1899	-.067	-1.172
12	19	88.935	105.57	97.887	3.9692	.227	.370		12	22	91.092	101.54	97.049	2.8306	-.257	-.850
13	21	87.378	110.27	100.83	5.4083	-.591	.321		13	20	90.616	104.59	98.774	3.4177	-.686	.021
14	10	91.903	107.60	101.55	4.7393	-.561	-.222		14	11	91.931	102.46	99.025	3.2328	-1.011	.059



LINEAR MEASUREMENT VARIABLE 182



Basion-A Point

BA-A

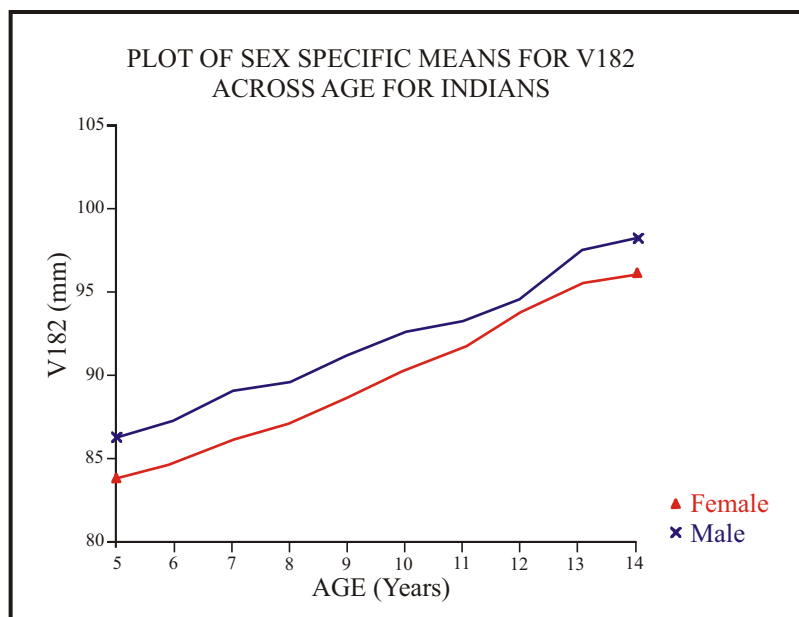
30-9

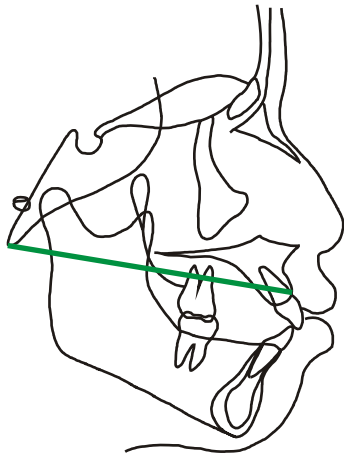
Male Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis	
5	14	82.474	91.255	86.053	2.8768	.458	-.989	*
6	22	83.385	91.377	87.273	2.2745	-.193	-1.160	**
7	20	81.794	94.366	88.943	3.1466	-.516	-.180	**
8	23	83.303	95.053	89.536	3.0811	-.082	-.440	**
9	23	85.963	96.858	91.328	2.9131	.026	-.779	**
10	21	86.716	99.391	92.509	3.3671	.085	-.583	**
11	21	86.289	100.41	93.243	3.5458	.080	-.518	
12	19	87.774	101.98	94.740	3.6288	.398	-.381	
13	21	87.188	106.12	97.478	4.7926	-.168	-.308	
14	10	89.141	105.48	98.351	4.4523	-.398	.308	

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis	
5	15	80.214	89.305	83.805	2.8719	.328	-.974	
6	20	78.693	91.470	84.560	3.1184	.203	-.259	
7	22	81.637	88.991	86.075	2.1325	-.488	-.721	
8	23	80.492	91.854	86.984	2.8177	-.109	-.172	
9	22	81.593	94.807	88.680	2.9624	.058	.462	
10	18	85.522	94.706	90.361	2.3817	.026	-.462	
11	21	87.472	96.373	91.648	2.4903	-.074	-.936	
12	22	89.150	97.296	93.839	2.6309	-.348	-1.157	
13	19	90.453	100.73	95.584	2.7468	-.060	-.809	
14	11	88.198	99.170	95.970	3.3202	-1.204	.644	





LINEAR MEASUREMENT VARIABLE 183

Basion-Supradentale

BA-SD

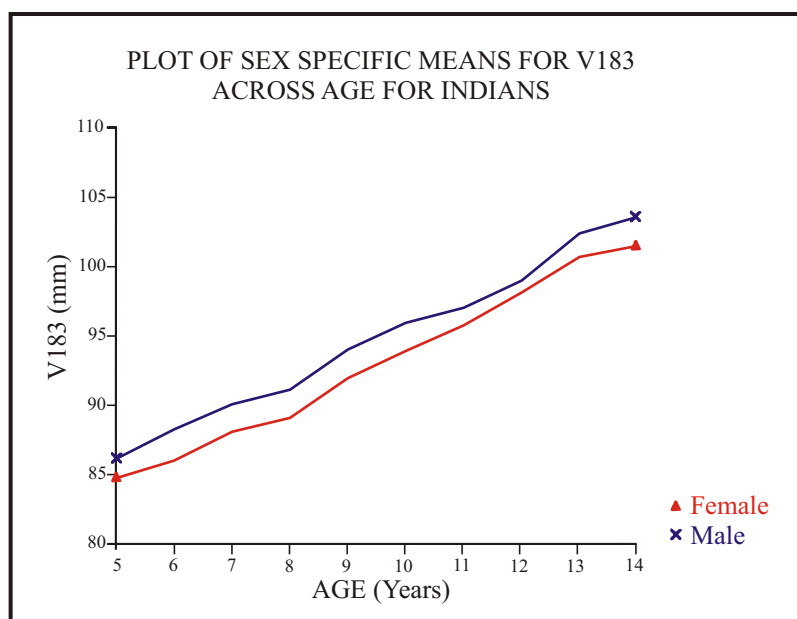
30-8

Male Indian

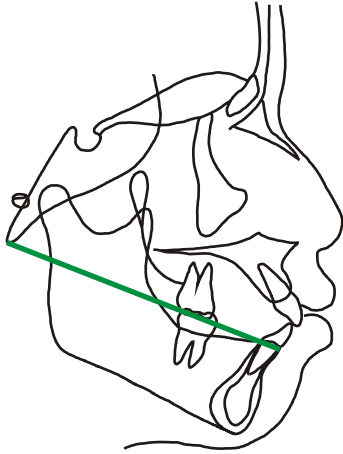
Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	78.065	91.707	86.356	3.6673	-.309	.021
6	22	84.017	93.163	88.582	2.5631	-.192	-.968 **
7	20	83.912	98.455	90.480	3.4409	.328	-.100 *
8	23	86.733	97.938	91.584	3.3786	.212	-.876 **
9	23	89.932	99.341	94.623	3.0101	.074	-1.308 **
10	21	91.017	104.44	96.644	3.6319	.442	-.830 **
11	21	92.863	105.36	97.784	3.3640	.322	-.559
12	19	95.178	107.55	99.838	3.4441	.592	-.521
13	21	93.895	112.01	103.41	4.7014	-.017	-.496 *
14	10	97.144	110.59	104.66	3.8587	-.152	.007

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	80.258	90.117	84.893	3.0517	-.017	-1.042
6	20	80.954	94.509	86.222	3.6785	.408	-.505
7	23	82.120	94.327	88.401	2.7036	-.486	.510
8	23	82.711	95.451	89.451	2.8744	-.171	.042
9	21	87.708	98.734	92.458	2.7198	.331	-.304
10	18	91.157	97.486	94.514	2.0485	-.224	-1.256
11	21	90.254	101.93	96.454	2.7718	-.199	-.311
12	22	92.966	103.40	98.936	2.8257	-.582	-.680
13	19	95.987	107.50	101.63	2.9529	.049	-.412
14	11	92.207	107.47	102.47	4.2987	-1.204	.945



LINEAR MEASUREMENT VARIABLE 184



Basion-Infradentale

BA-ID

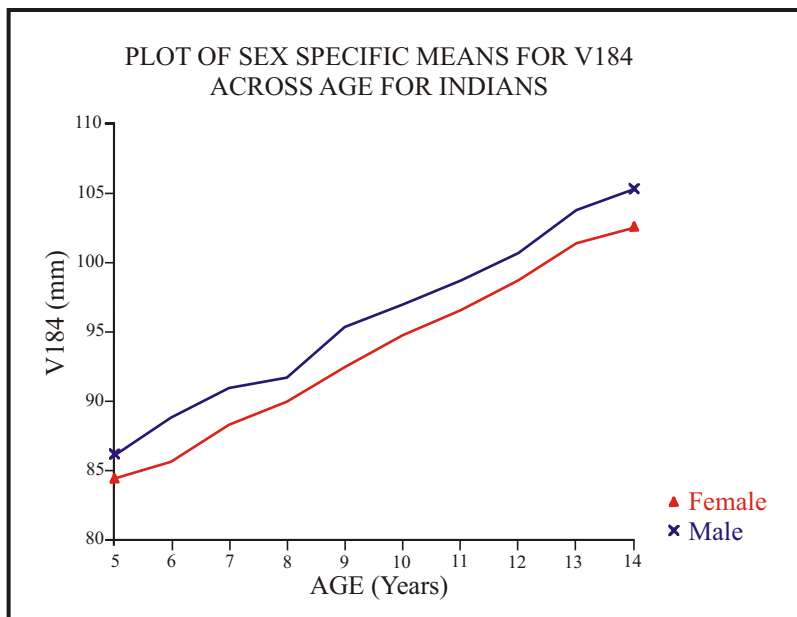
30-5

Male Indian

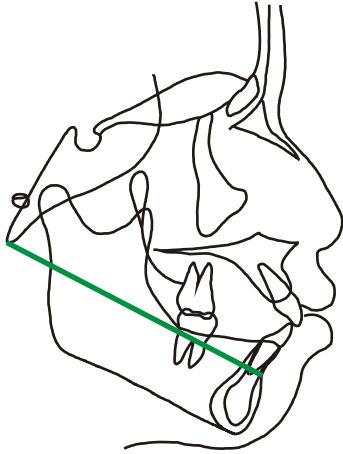
Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	79.817	92.340	85.984	3.3839	.252	-.589
6	22	83.473	93.915	88.918	2.6312	-.382	-.248 **
7	20	83.876	97.610	91.155	3.2463	-.029	-.214 **
8	22	87.200	100.55	91.942	3.5114	.653	-.239 *
9	23	90.110	103.14	95.774	3.2146	.304	-.128 **
10	20	92.461	102.32	97.471	2.8560	-.167	-.811 **
11	21	92.156	106.39	99.282	3.8427	-.239	-.491
12	19	93.333	110.42	101.37	4.2452	-.039	-.355
13	21	96.091	112.25	104.62	4.3991	-.093	-.735 *
14	10	98.719	113.89	106.21	4.2062	.124	-.202 *

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	77.558	90.946	84.272	3.7691	-.329	-.623
6	20	78.425	91.135	85.574	3.6705	-.181	-1.065
7	23	83.841	94.341	88.372	2.5578	.068	-.312
8	23	85.203	94.471	90.119	2.7757	-.234	-1.139
9	22	86.242	97.891	92.733	3.1982	-.210	-.896
10	19	89.549	99.207	95.148	2.6617	-.319	-.794
11	21	88.904	101.08	97.038	2.9941	-.720	.643
12	23	90.541	104.21	99.308	3.6463	-.820	-.163
13	20	95.245	109.96	102.11	3.6508	.178	-.158
14	11	96.664	108.75	103.29	3.8149	-.298	-.949



LINEAR MEASUREMENT VARIABLE 185



Basion-B Point

BA-B

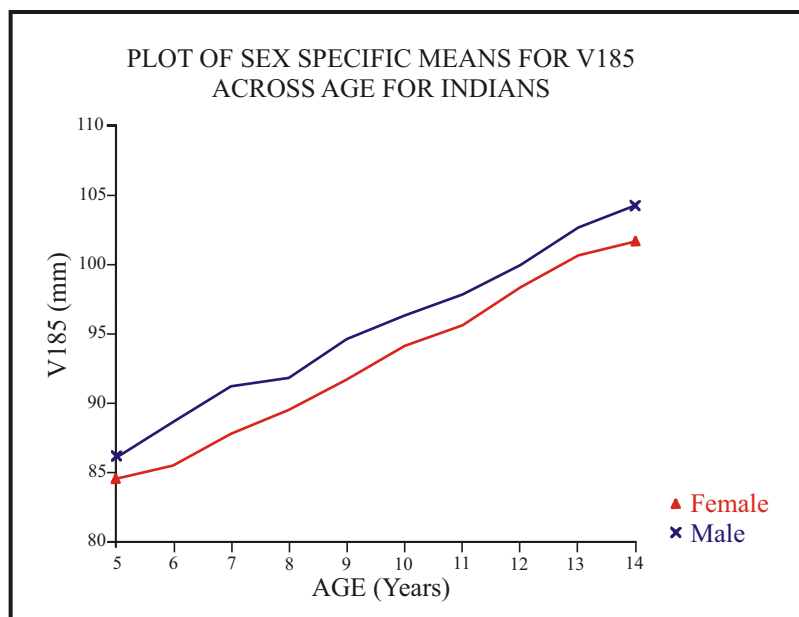
30-4

Male Indian

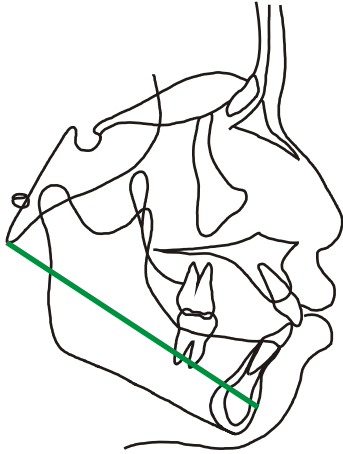
Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis	
5	15	81.903	91.481	85.975	2.9087	.430	-.959	
6	22	83.098	93.214	88.730	2.5914	-.314	-.690	**
7	19	87.360	96.348	91.431	2.8539	.313	-1.171	**
8	23	84.913	101.68	92.068	4.2062	.473	-.368	**
9	23	87.890	103.37	95.005	3.7678	.067	-.312	**
10	20	89.629	102.48	96.789	3.2946	-.432	-.389	**
11	21	90.817	105.60	98.382	3.9862	-.241	-.676	
12	19	91.622	109.84	100.61	4.5025	-.120	-.355	
13	21	92.913	111.64	103.45	4.6402	-.204	-.124	
14	10	94.332	113.13	105.15	5.0406	-.533	.576	

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis	
5	15	77.880	90.728	84.418	3.5131	-.364	-.384	
6	20	78.702	91.166	85.434	3.6026	-.150	-1.076	
7	22	83.008	90.894	87.836	2.2720	-.862	-.398	
8	23	85.917	95.718	89.649	2.6283	.233	-.567	
9	22	85.905	97.082	91.944	2.8863	-.238	-.569	
10	19	90.090	97.864	94.489	2.4830	-.350	-1.170	
11	21	89.024	100.77	96.049	2.8391	-.333	.251	
12	22	92.417	103.27	98.920	3.0017	-.480	-.614	
13	20	94.519	109.69	101.34	3.6084	.432	.144	
14	11	96.602	108.02	102.41	3.3661	-.026	-.718	



LINEAR MEASUREMENT VARIABLE 186



Basion-Pogonion

BA-PG

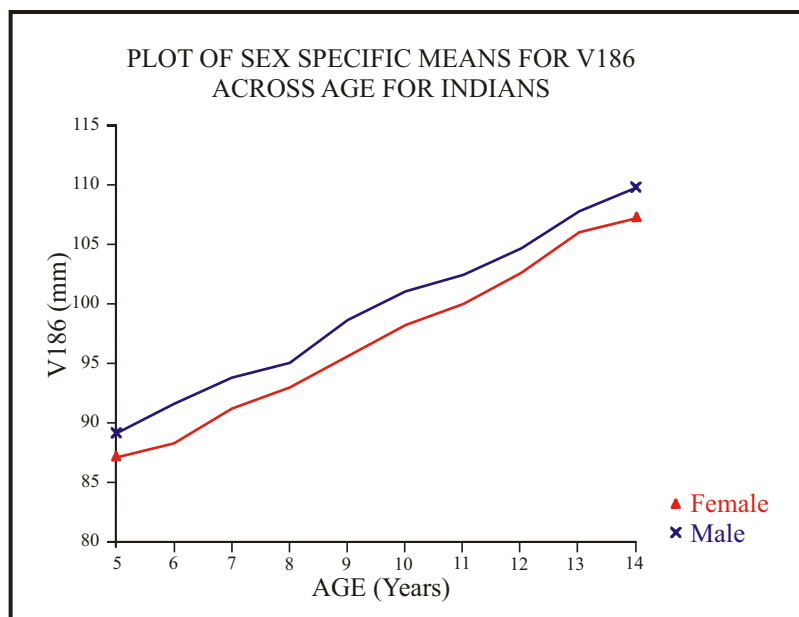
30-3

Male Indian

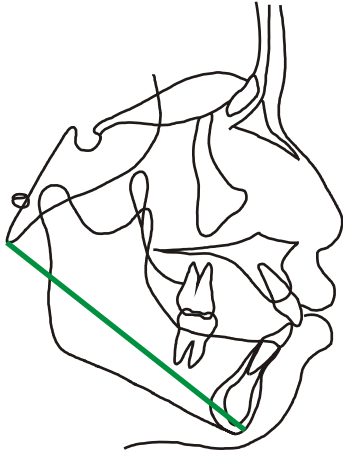
Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	86.210	93.277	89.106	2.7010	.505	-1.443
6	22	86.584	95.678	91.725	2.6524	-.049	-1.190 **
7	20	85.810	100.48	94.040	3.5505	-.044	.075 **
8	22	89.439	103.28	95.345	3.6590	.400	-.643 *
9	23	92.039	107.20	99.127	3.7814	.303	-.256 **
10	21	93.939	111.15	101.66	3.9848	.327	.056 **
11	21	95.136	109.83	103.12	4.0834	-.189	-.844
12	19	95.448	114.12	105.46	4.4563	-.269	-.114
13	21	99.149	117.49	108.73	4.8273	.143	-.489
14	10	100.95	119.84	110.85	5.0339	-.151	.210

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	79.693	93.388	86.987	3.5876	-.451	-.191
6	20	80.813	93.599	88.237	3.8123	-.155	-1.113
7	23	85.442	98.282	91.306	3.0126	-.038	-.121
8	23	88.302	98.646	93.175	2.8511	.256	-.749
9	22	89.622	101.63	95.927	2.9916	.007	-.209
10	19	94.268	103.20	98.686	2.7208	-.069	-1.285
11	21	95.677	105.85	100.55	2.8044	.285	-.780
12	23	94.639	109.70	103.30	3.7092	-.446	-.369
13	20	100.13	116.31	106.88	3.8646	.550	.254
14	11	102.65	114.41	108.13	3.6043	.047	-.870



LINEAR MEASUREMENT VARIABLE 187



Basion-Gnathion

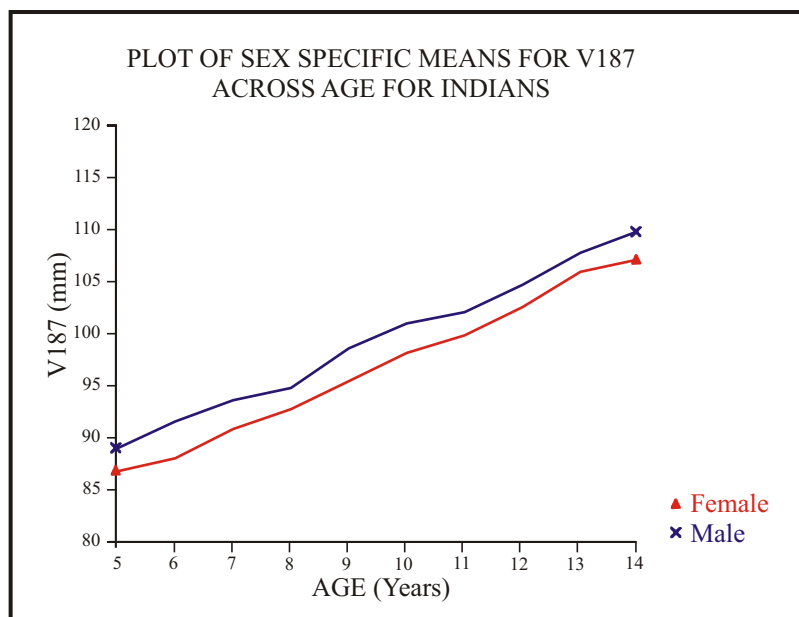
BA-GN

30-2

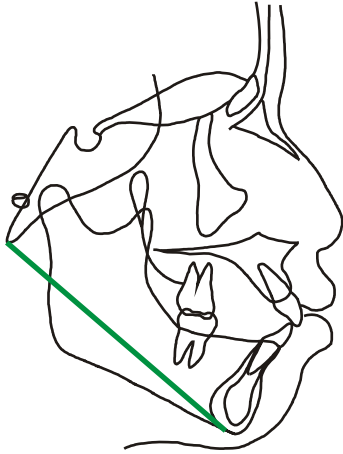
Male Indian

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis		Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	86.213	93.233	89.023	2.6202	.443	-1.418		5	15	79.683	94.141	86.707	3.5918	-.105	.114
6	22	86.604	95.730	91.736	2.6972	-.109	-1.195	**	6	20	80.472	93.592	88.020	3.9198	-.185	-1.117
7	20	85.277	100.39	93.880	3.6785	-.045	.124	**	7	23	85.338	97.623	90.971	3.0309	-.045	-.426
8	22	89.424	102.59	95.120	3.6360	.347	-.793	*	8	23	88.169	98.586	92.978	2.8920	.332	-.824
9	23	92.230	106.72	99.118	3.8204	.233	-.449	**	9	22	90.083	101.64	95.807	2.9277	.050	-.314
10	21	93.543	111.26	101.63	4.0001	.243	.259	**	10	19	94.546	103.07	98.656	2.7772	.013	-1.318
11	21	95.151	109.03	102.77	4.1946	-.186	-1.164		11	21	95.571	106.29	100.43	2.8368	.367	-.585
12	19	94.997	114.37	105.53	4.6802	-.359	-.154		12	23	94.619	109.16	103.28	3.7047	-.486	-.468
13	21	99.326	116.75	108.76	4.7827	.121	-.520		13	20	100.21	116.14	106.84	3.9695	.447	-.096
14	10	100.77	119.71	110.95	5.0180	-.279	.342		14	11	102.85	114.46	108.09	3.6734	.141	-.991



LINEAR MEASUREMENT VARIABLE 188



Basion-Menton

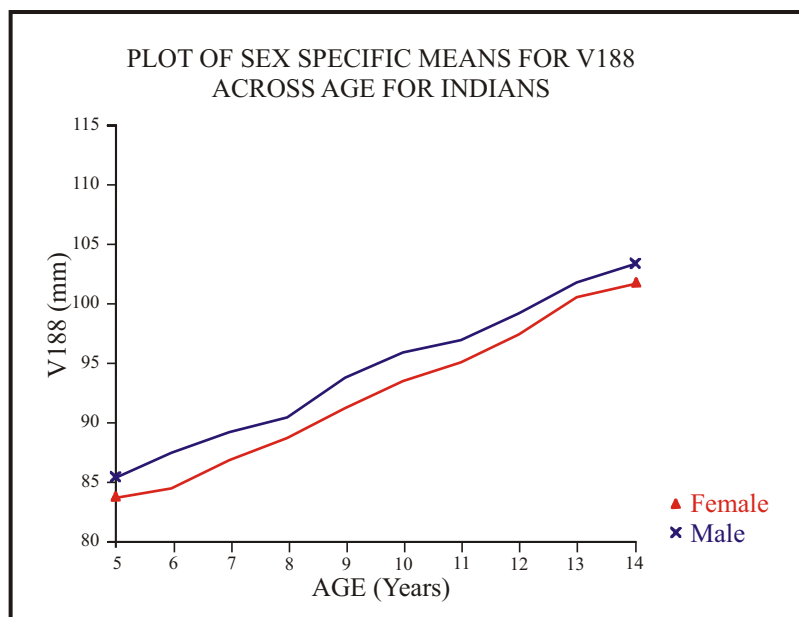
BA-ME

30-1

Male Indian

Female Indian

Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis		Age	N	Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
5	15	81.546	90.170	85.331	2.8653	.378	-1.236		5	15	75.189	90.391	83.361	4.0816	-.421	-.473
6	22	82.827	92.724	87.951	3.2211	.019	-1.358	**	6	20	76.756	89.715	84.358	3.9008	-.151	-1.049
7	20	82.756	96.718	90.033	3.7763	.235	-.593	**	7	23	82.094	93.781	87.207	3.0631	.052	-.684
8	22	86.953	98.909	91.520	3.7083	.347	-1.081	*	8	23	83.807	95.088	89.444	3.0596	.252	-.685
9	23	89.369	103.69	95.528	3.9584	.339	-.389	**	9	22	86.755	99.730	92.457	3.3052	.249	-.295
10	21	90.249	108.68	98.075	4.3703	.247	.146	**	10	19	90.591	100.93	95.188	3.0962	.160	-1.113
11	21	92.784	105.55	99.321	4.1346	-.062	-1.313		11	21	91.824	103.11	97.076	3.2017	.274	-.839
12	19	91.883	112.16	102.02	4.9180	-.106	-.184		12	23	91.012	106.42	99.892	4.2083	-.389	-.814
13	21	96.471	114.31	105.14	5.0246	.300	-.665		13	20	27.165	114.03	103.65	4.4202	.526	-.224
14	10	97.011	117.11	106.99	5.3233	.078	.244		14	11	99.255	112.08	104.98	4.0398	.185	-1.039

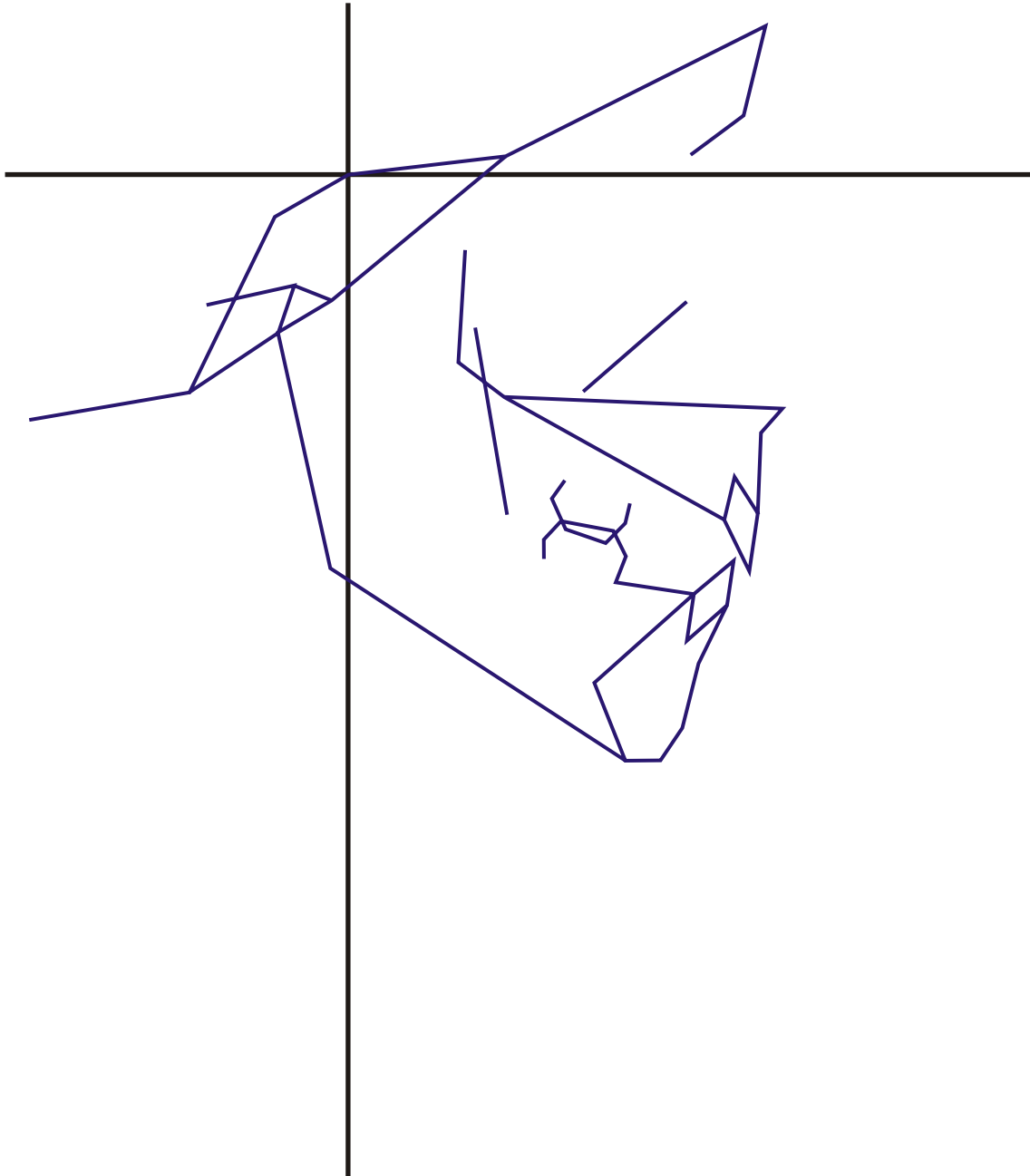




**10. DIAGRAMAS DEL COMPLEJO CRANEOFACIAL
CRANIOFACIAL COMPLEX DIAGRAMS**

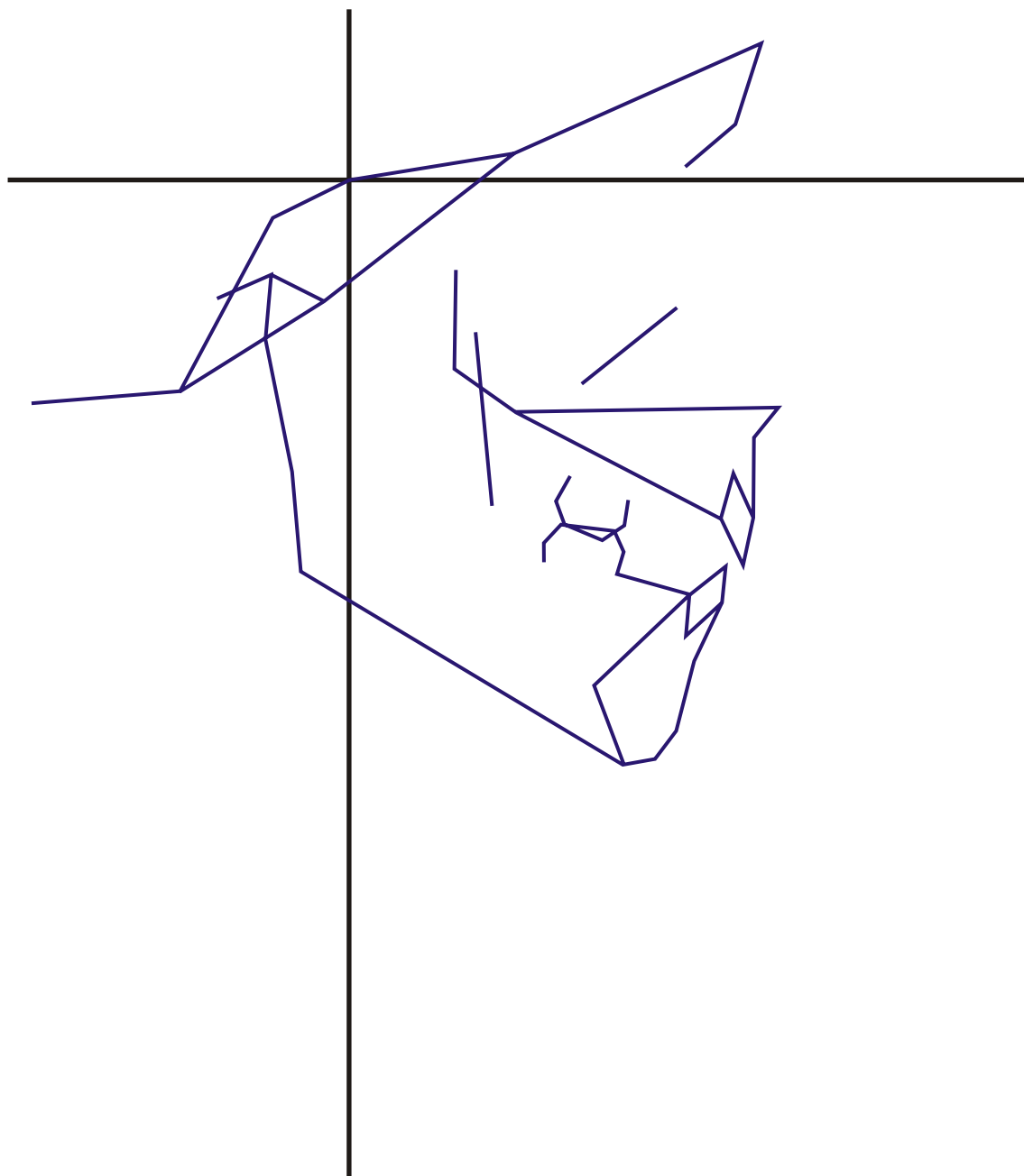
Guatemalan Indian Male

Age: 4.56 - 5.55 years



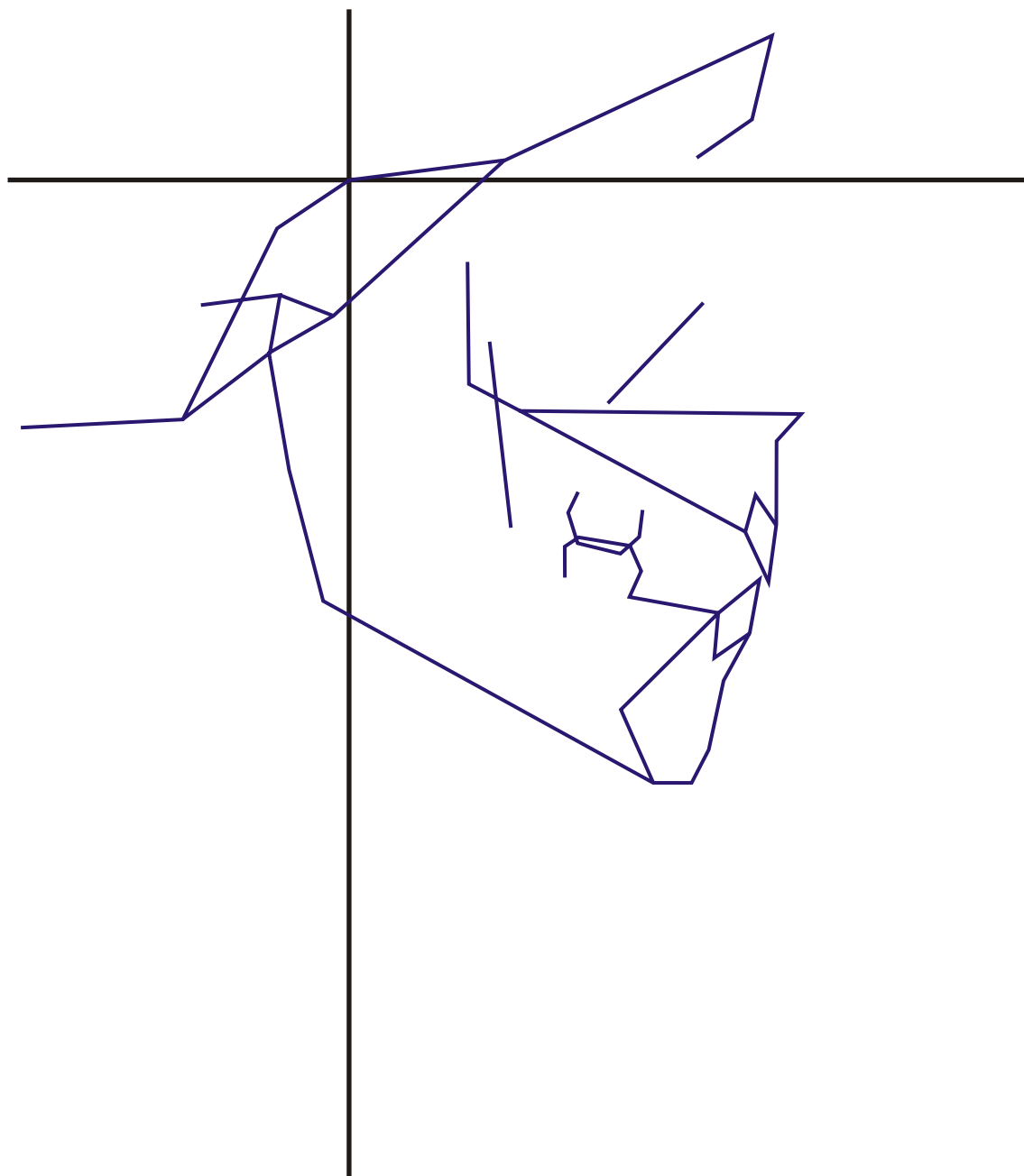
Guatemalan Indian Male

Age: 5.56 - 6.55 years



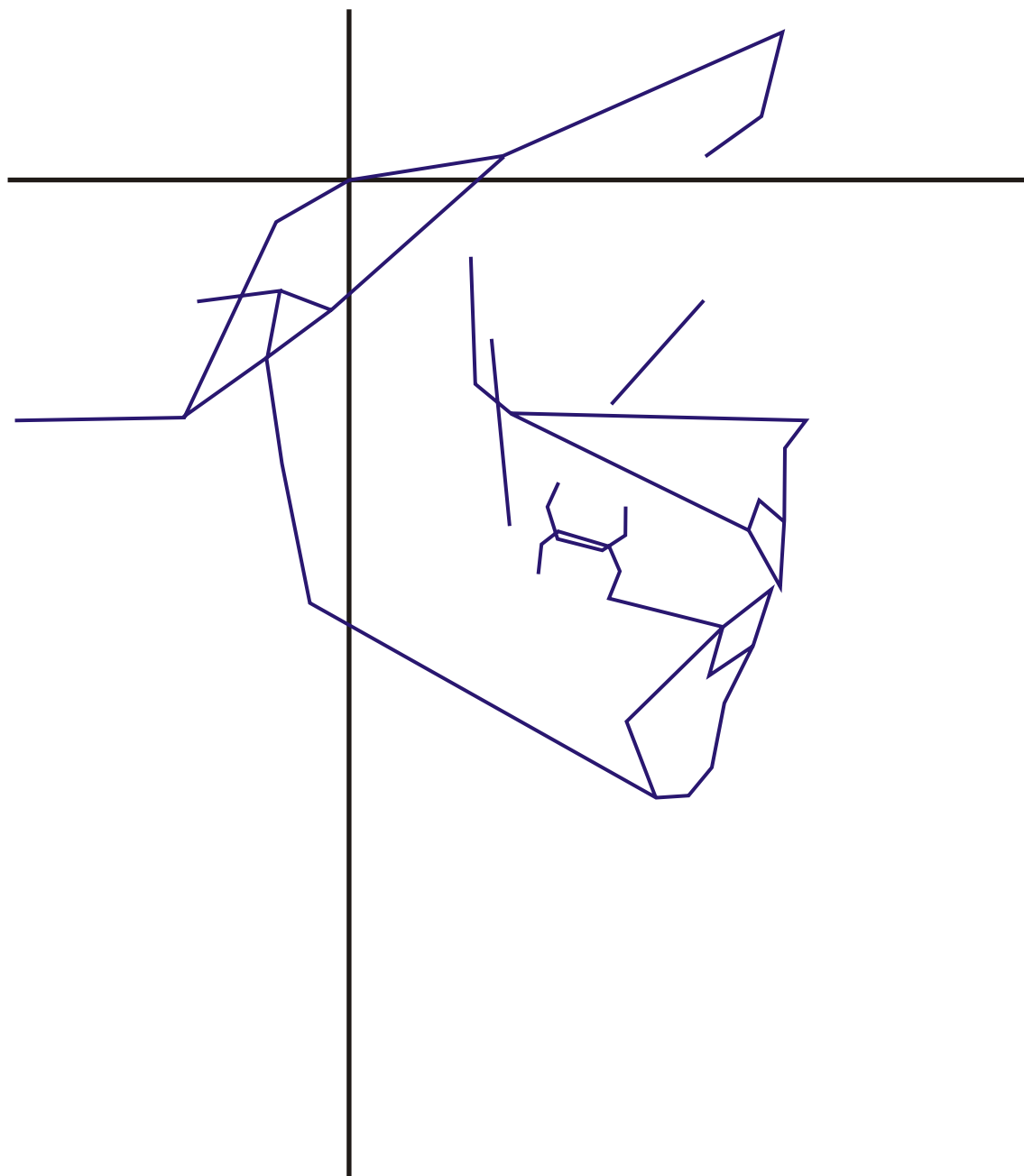
Guatemalan Indian Male

Age: 6.56 - 7.55 years



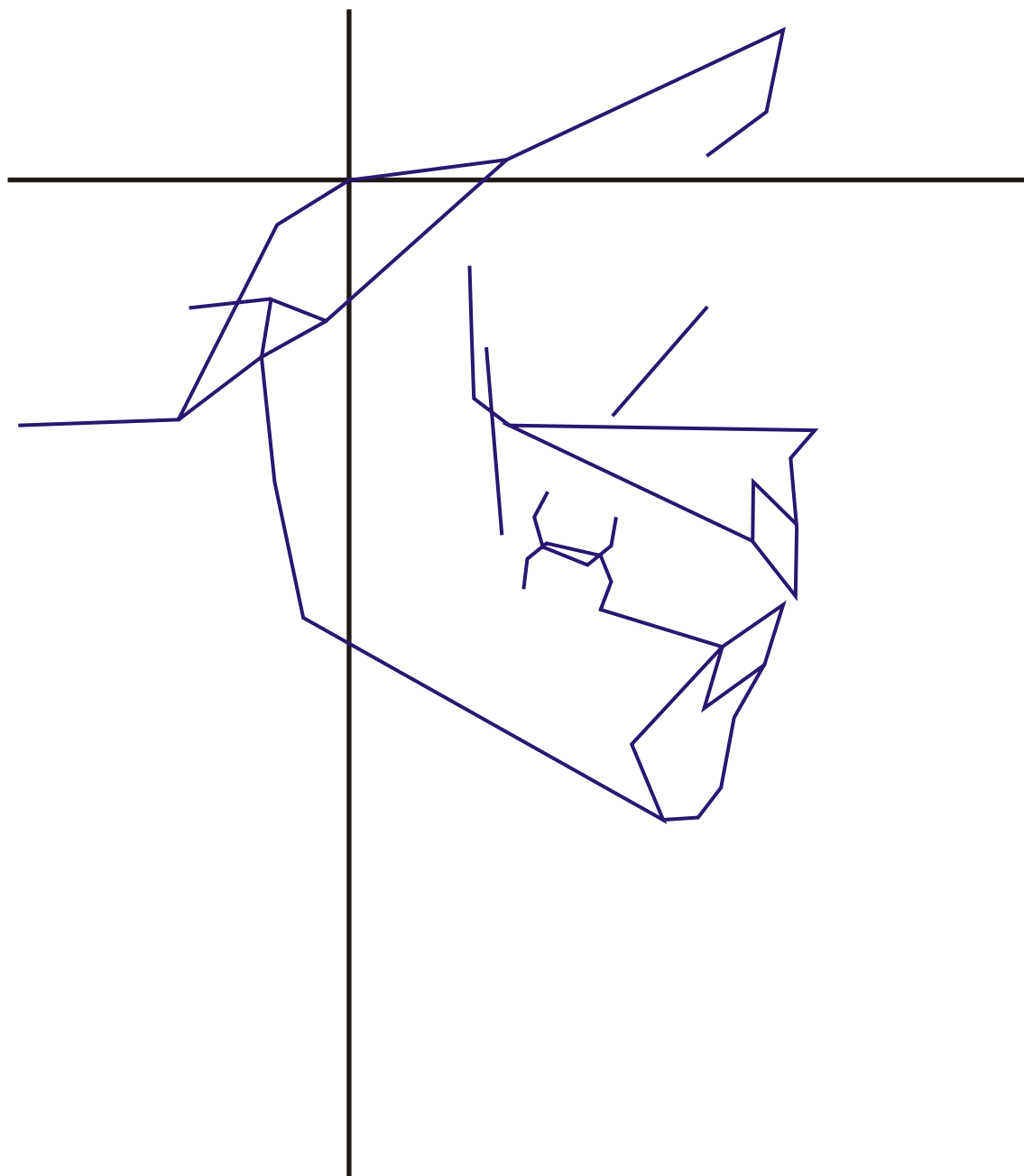
Guatemalan Indian Male

Age: 7.56 - 8.55 years



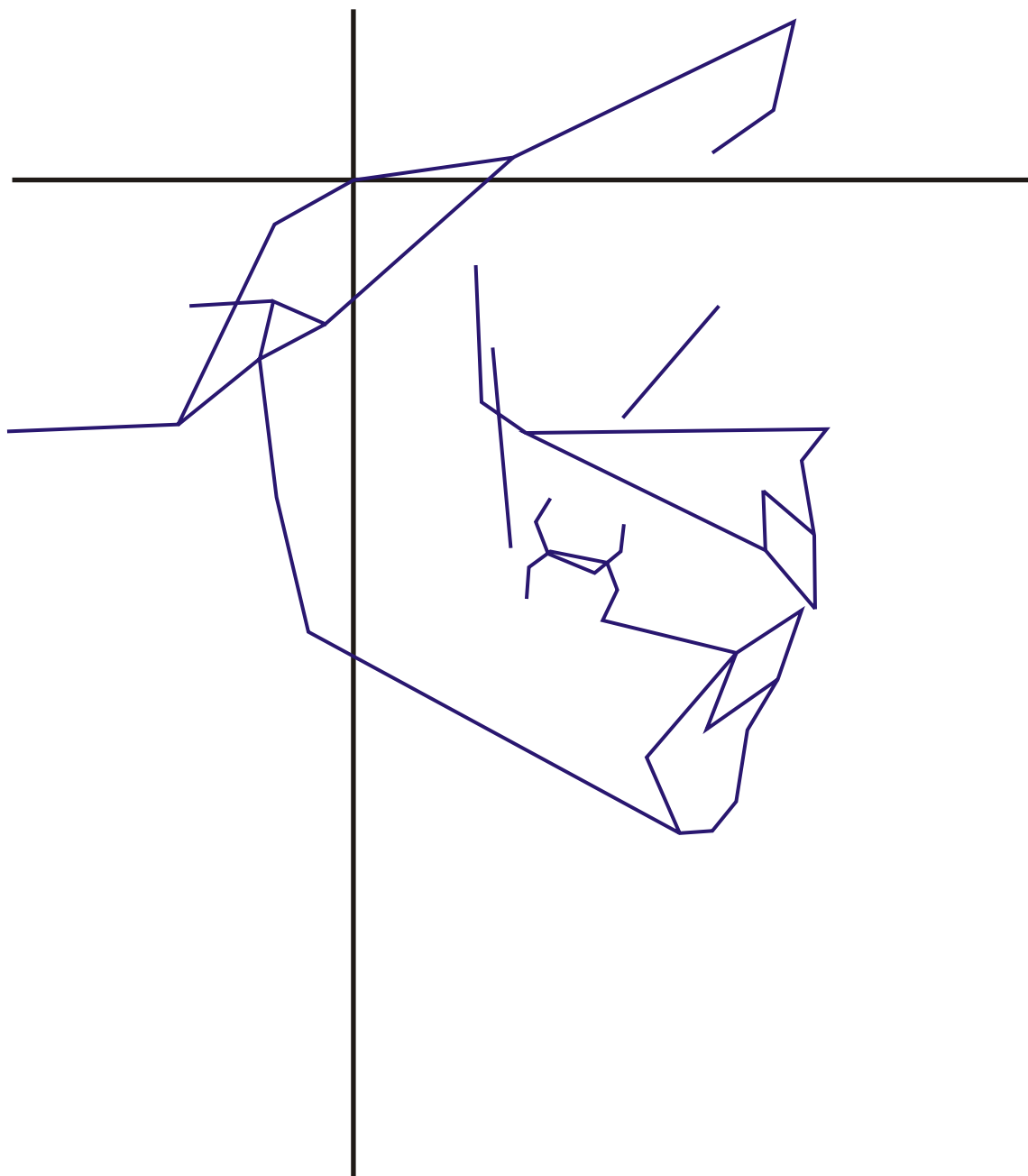
Guatemalan Indian Male

Age: 8.56 - 9.55 years



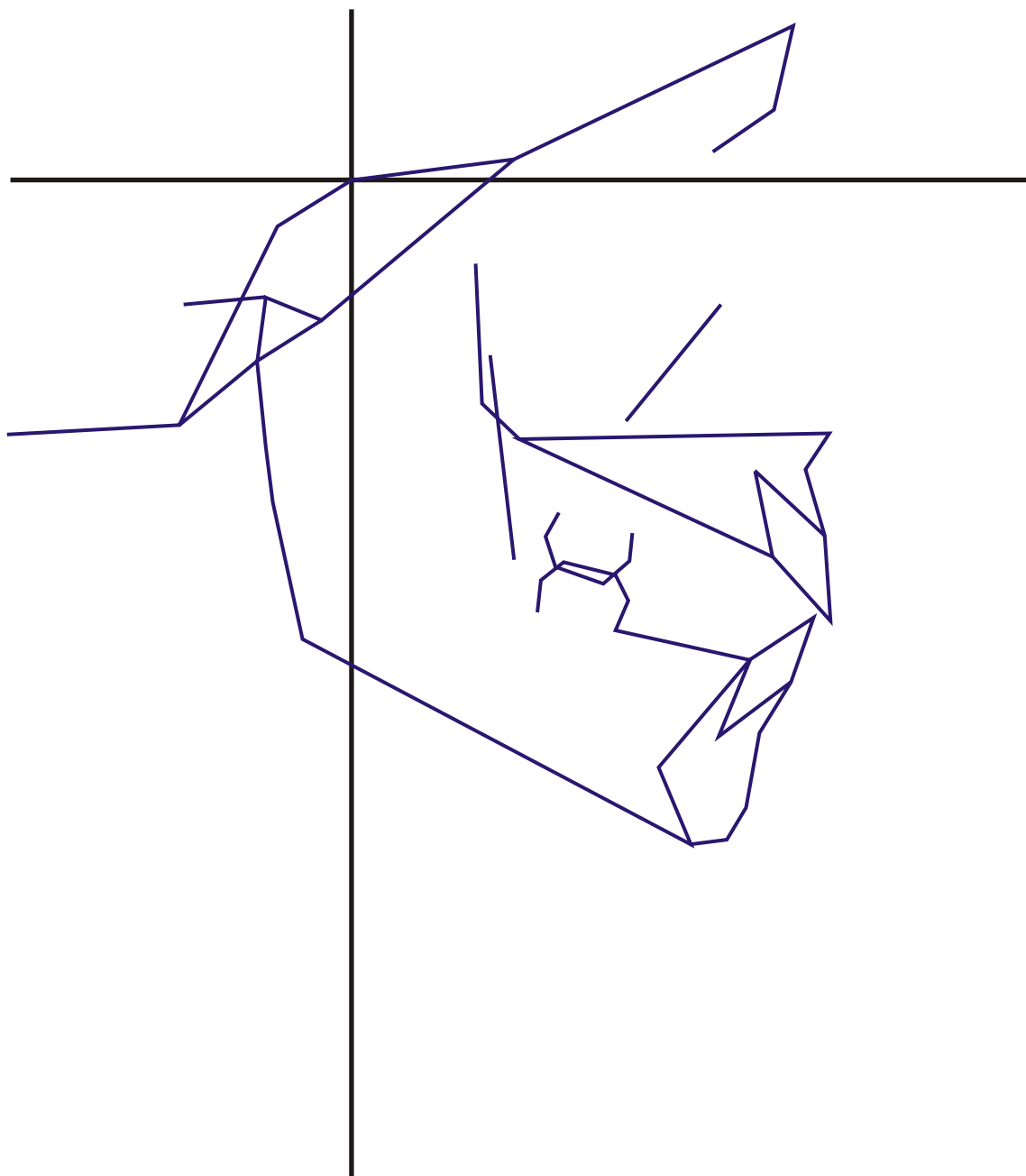
Guatemalan Indian Male

Age: 9.56 - 10.55 years



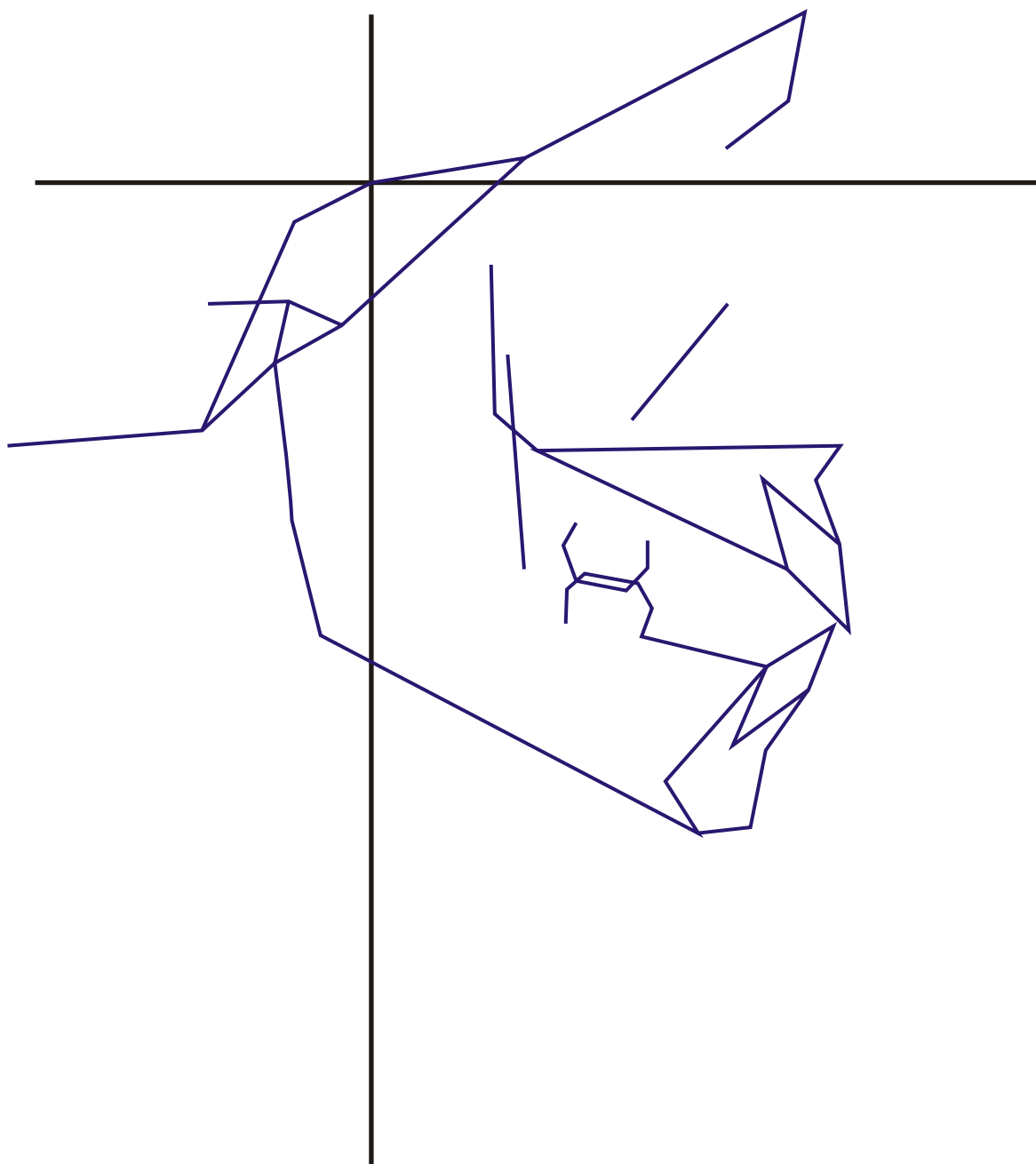
Guatemalan Indian Male

Age: 10.56 - 11.55 years



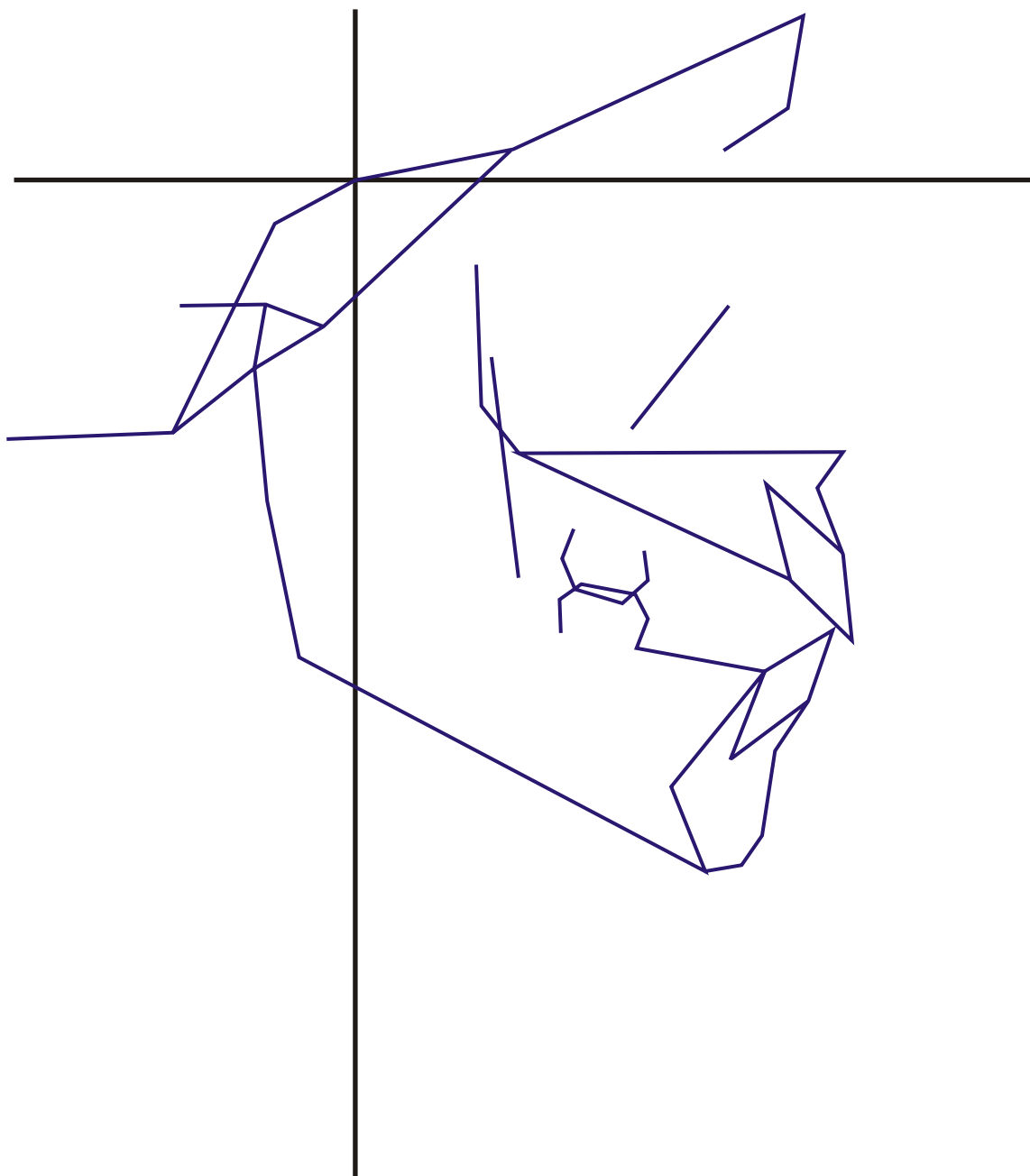
Guatemalan Indian Male

Age: 11.56 - 12.55 years



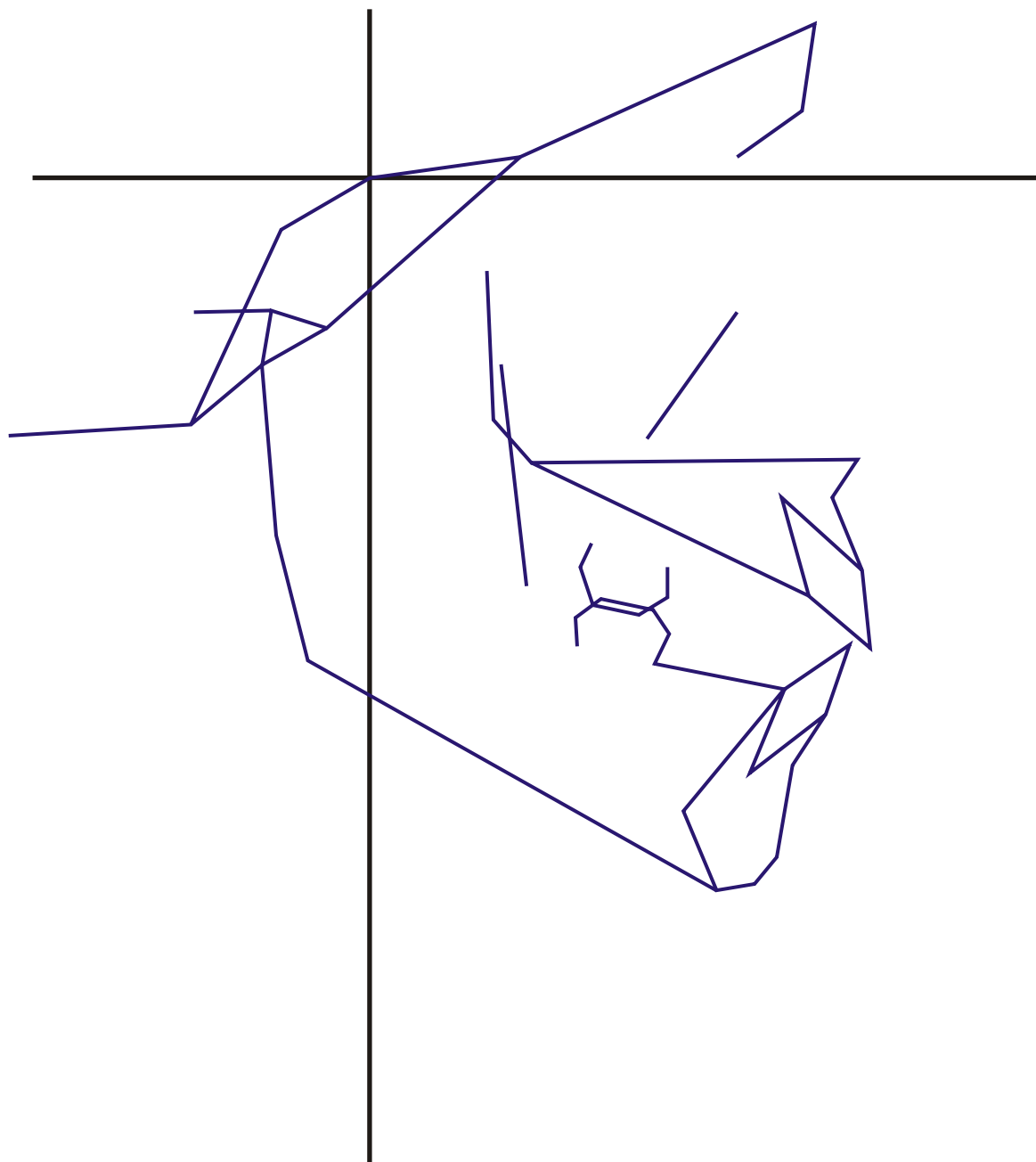
Guatemalan Indian Male

Age: 12.56 - 13.55 years



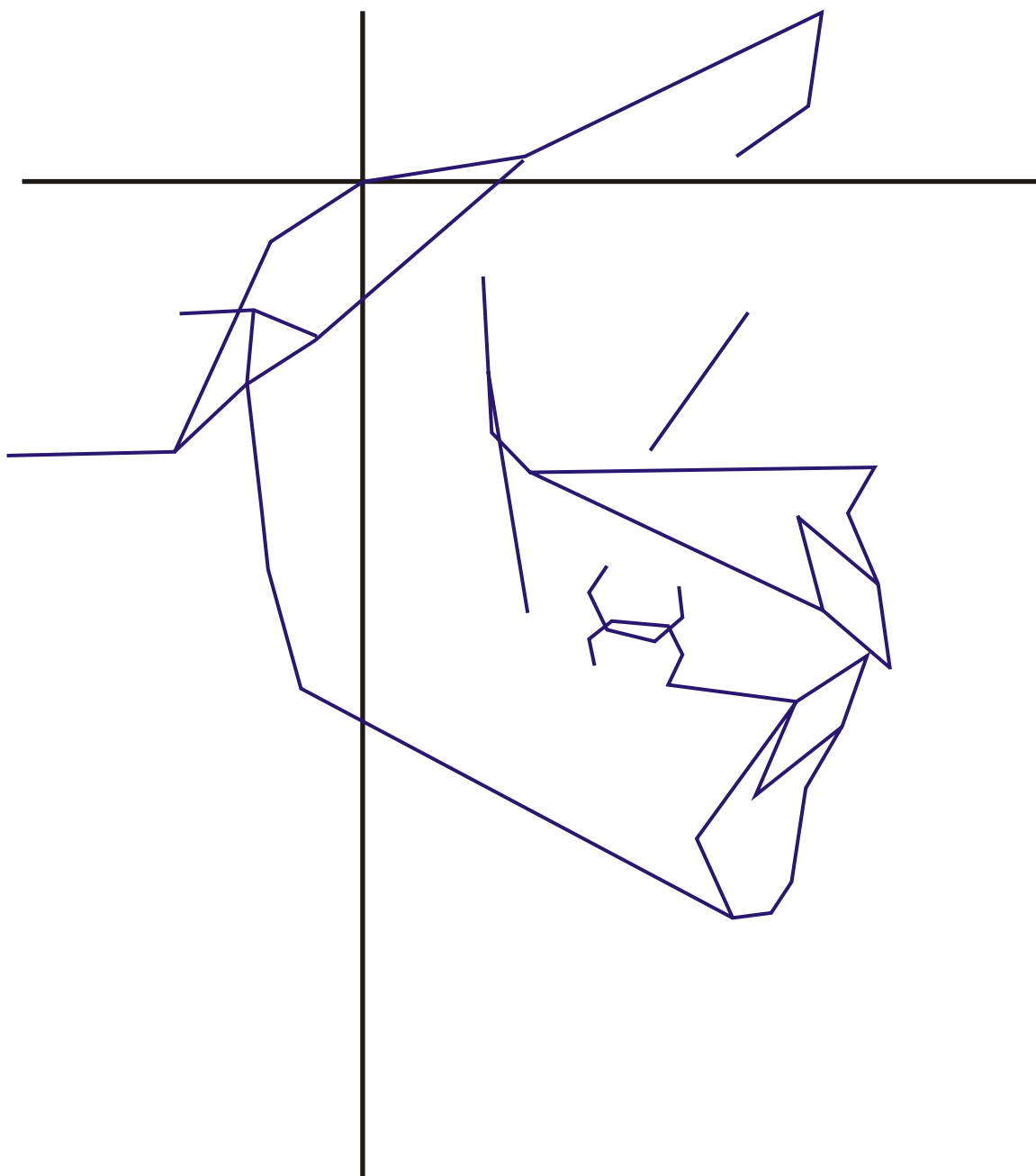
Guatemalan Indian Male

Age: 13.56 - 14.55 years



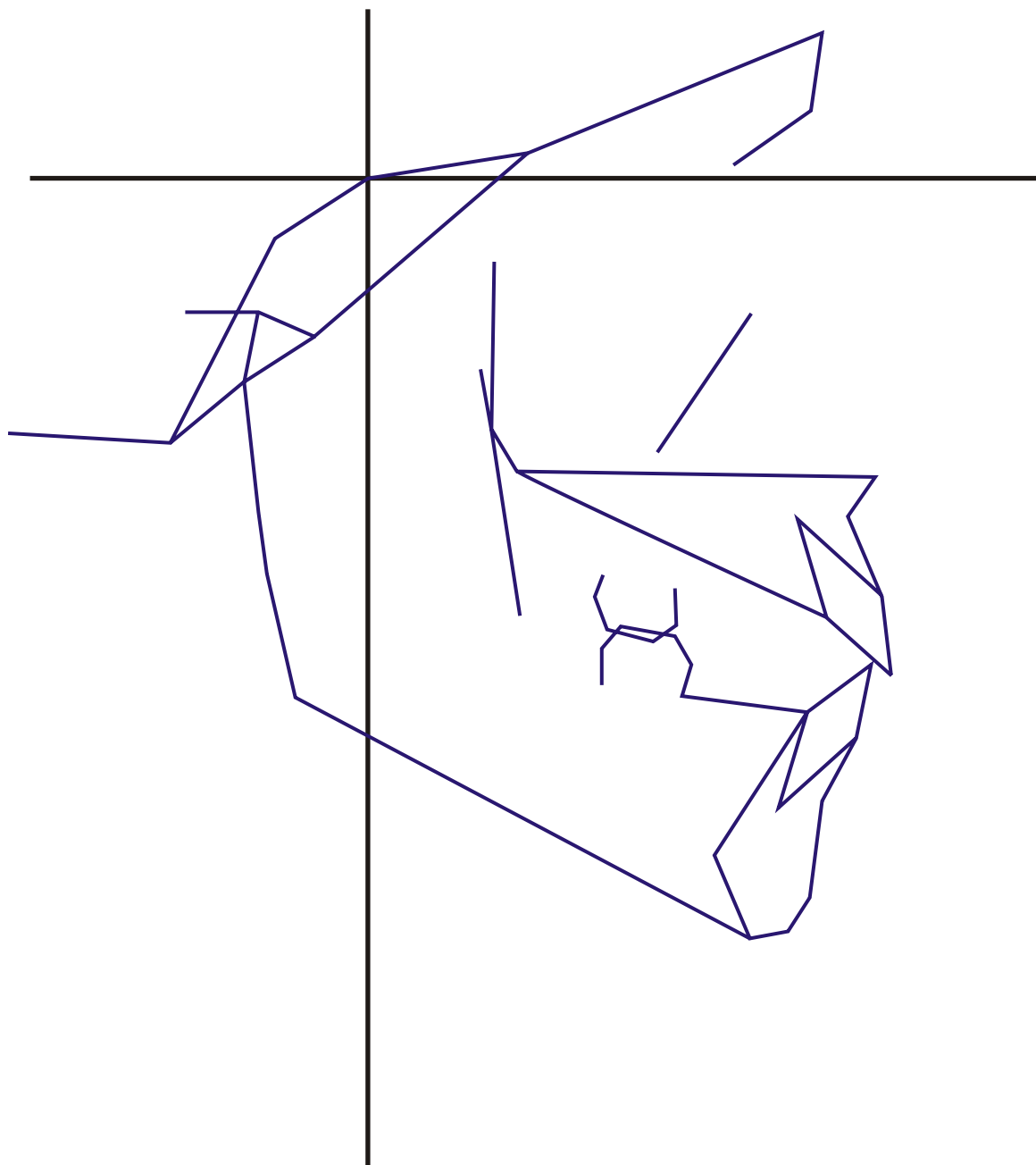
Guatemalan Indian Male

Age: 14.56 - 15.55 years



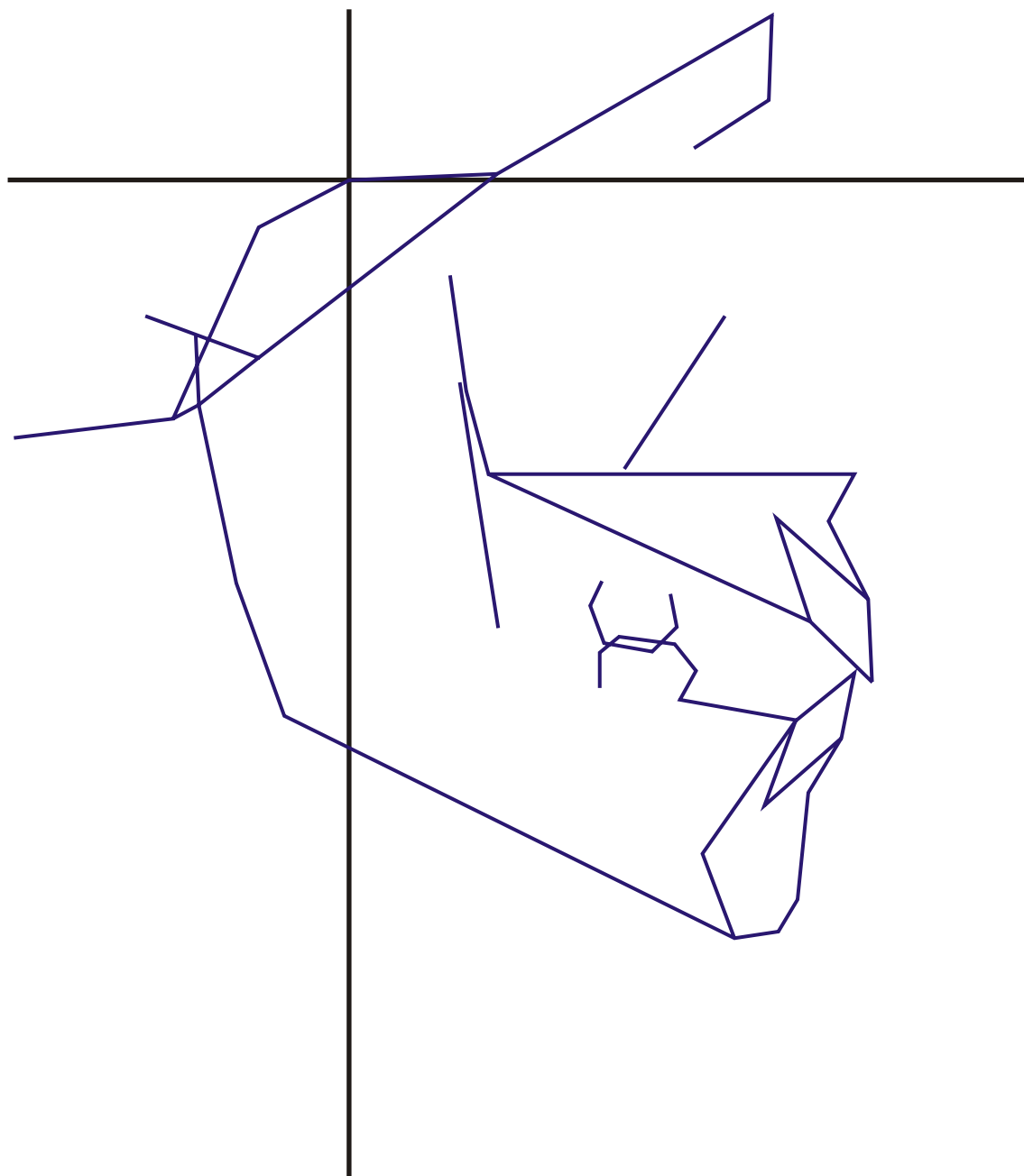
Guatemalan Indian Male

Age: 15.56 - 16.55 years



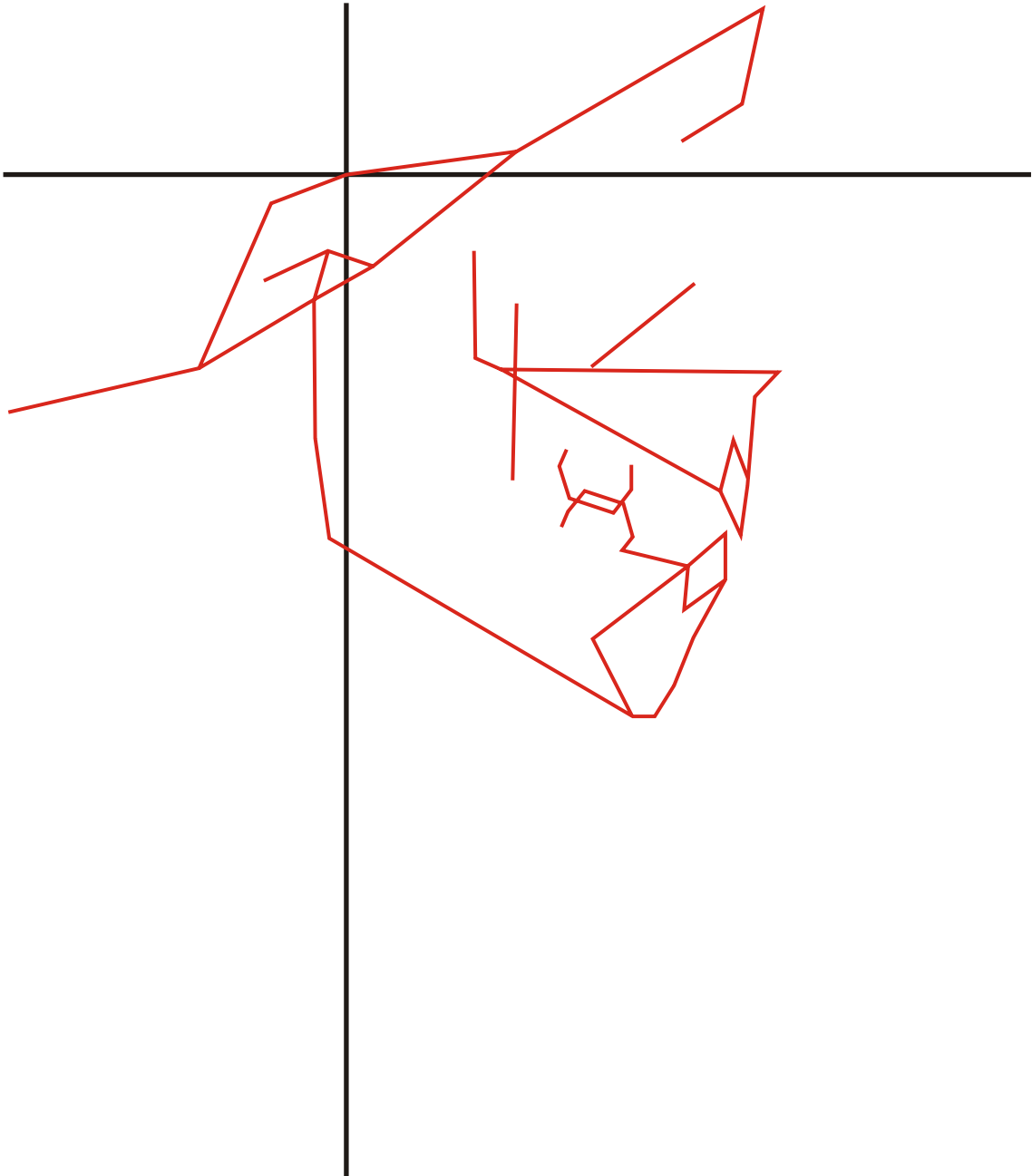
Guatemalan Indian Male

Age: 16.56 - 17.55 years



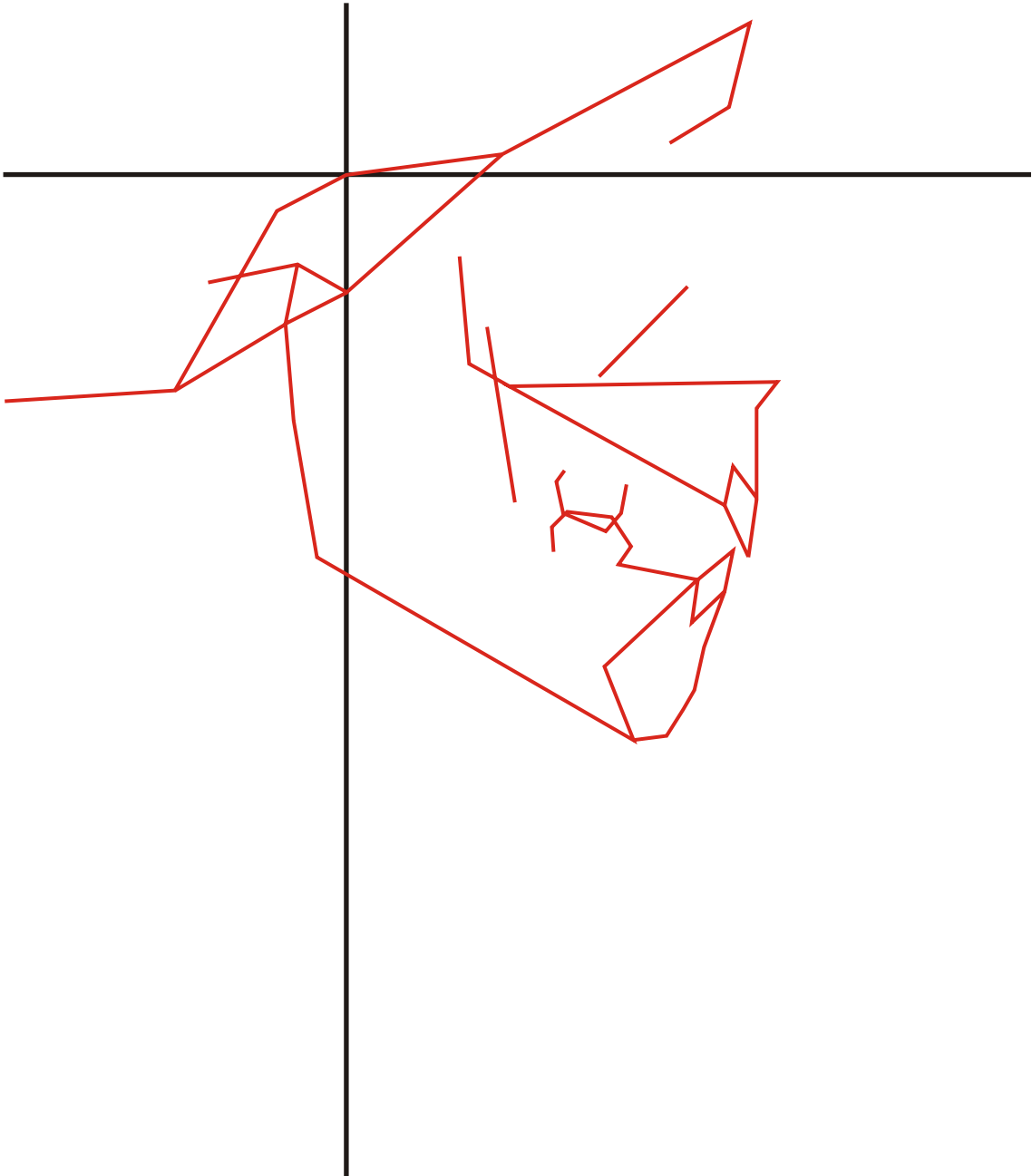
Guatemalan Indian Female

Age: 3.56 - 4.55 years



Guatemalan Indian Female

Age: 4.56 - 5.55 years



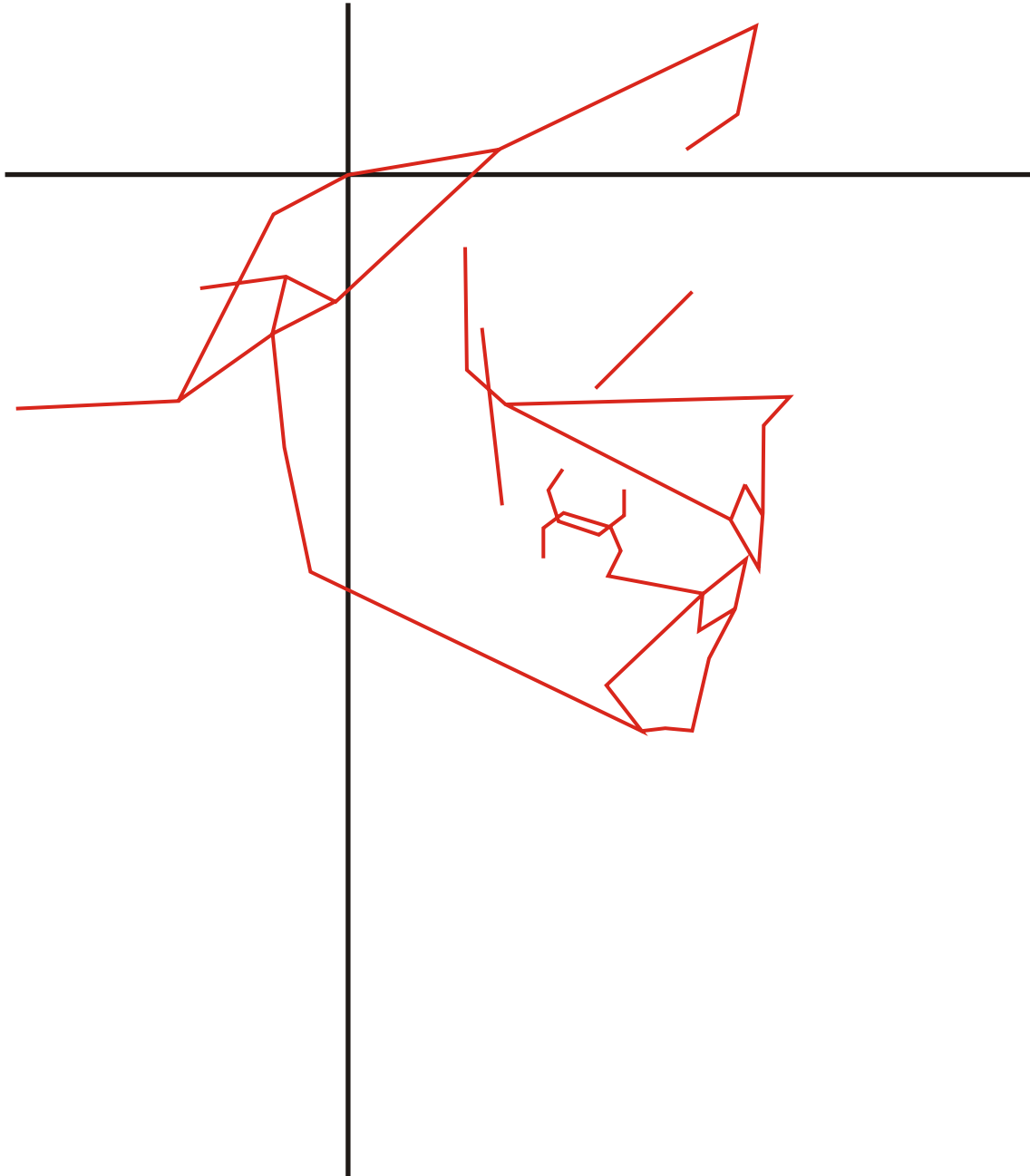
Guatemalan Indian Female

Age: 5.56 - 6.55 years



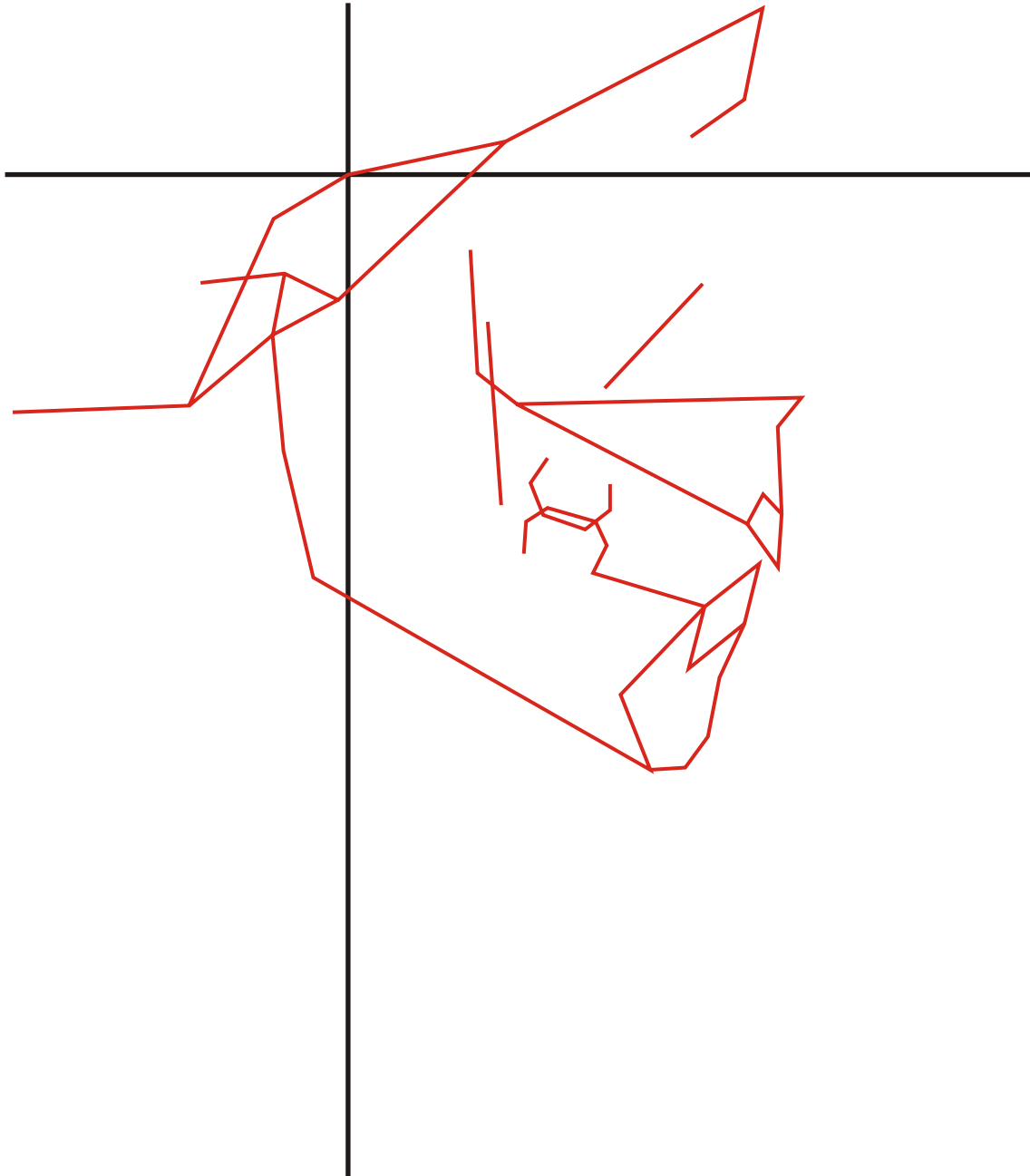
Guatemalan Indian Female

Age: 6.56 - 7.55 years



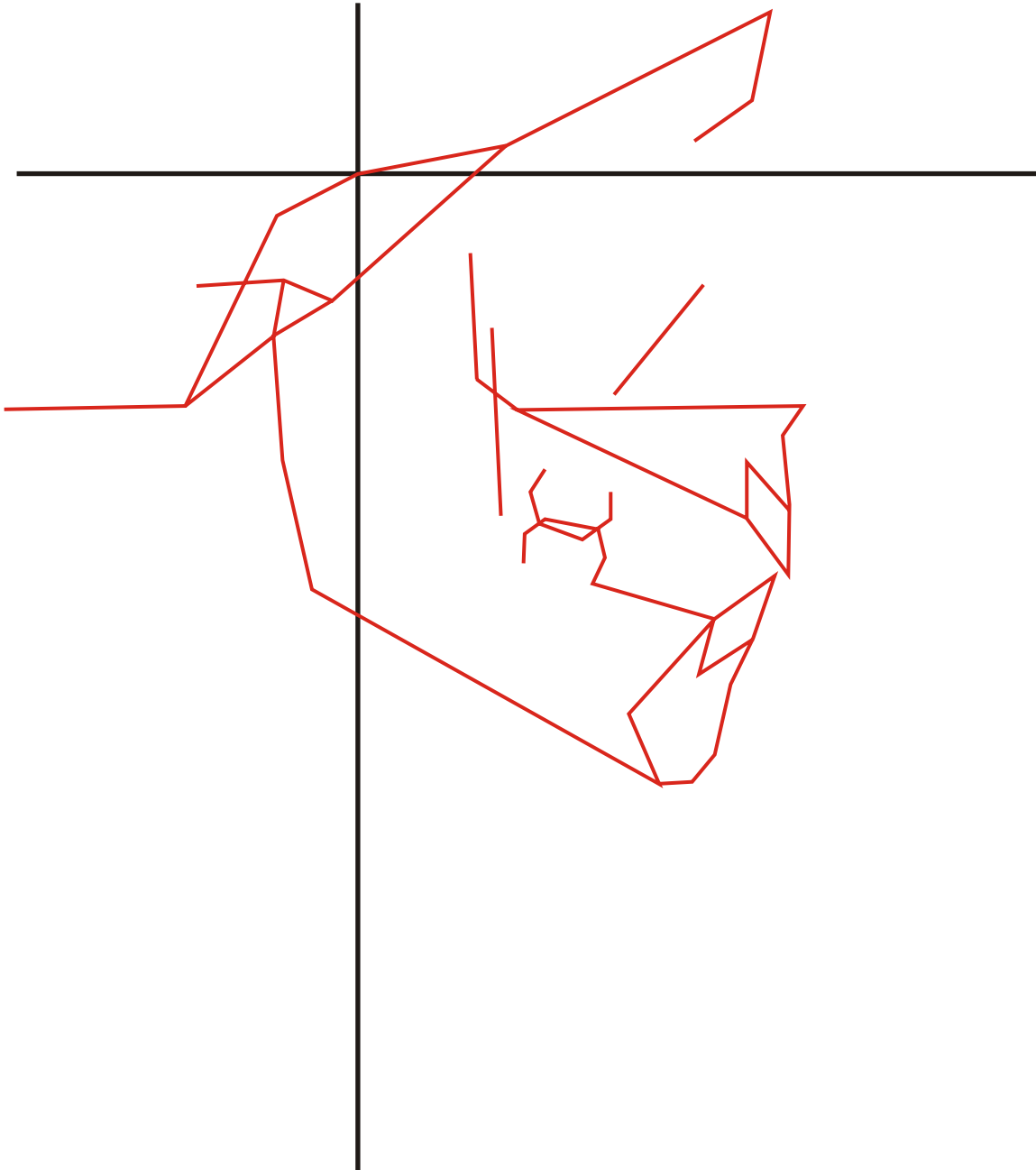
Guatemalan Indian Female

Age: 7.56 - 8.55 years



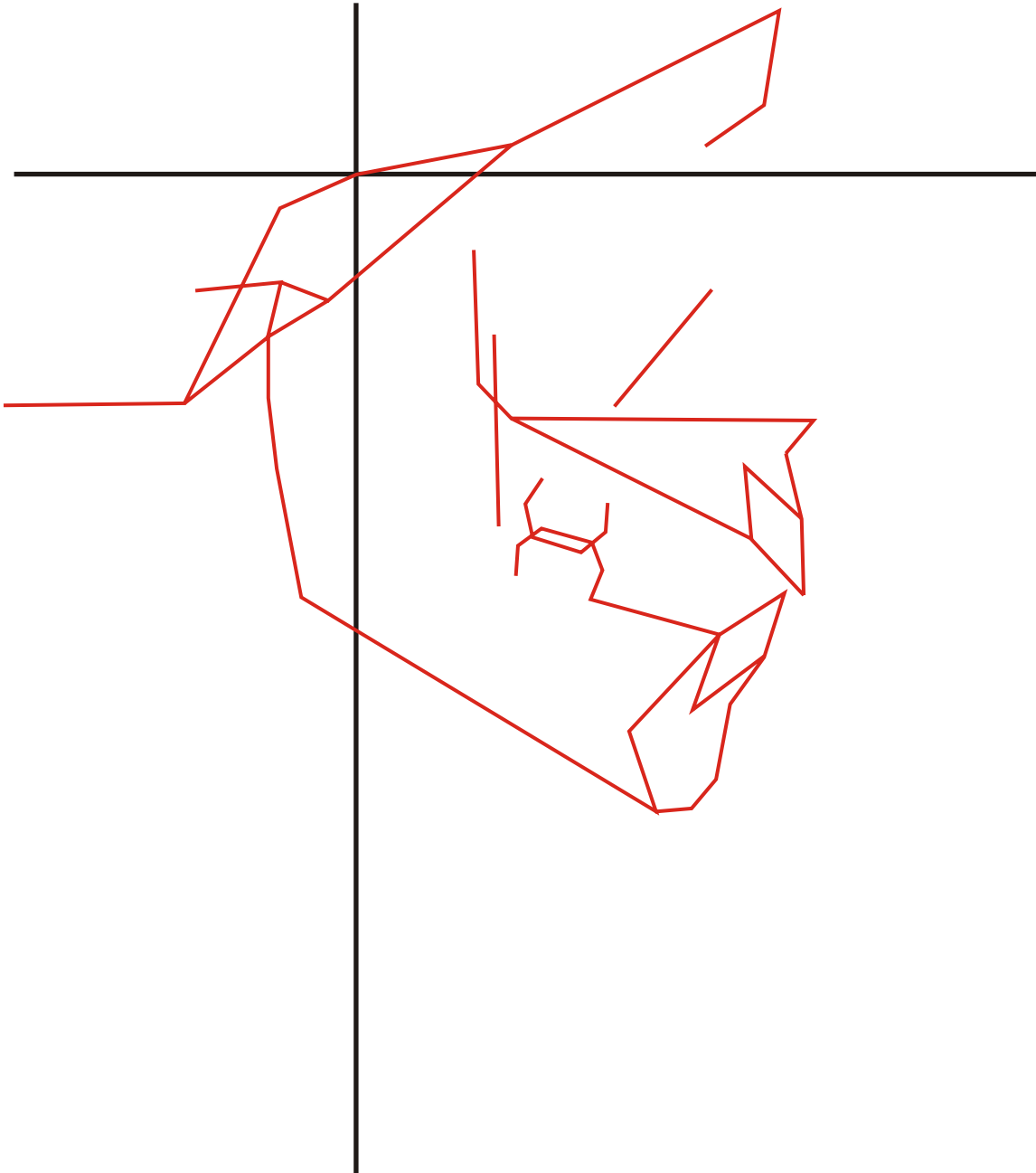
Guatemalan Indian Female

Age: 8.56 - 9.55 years



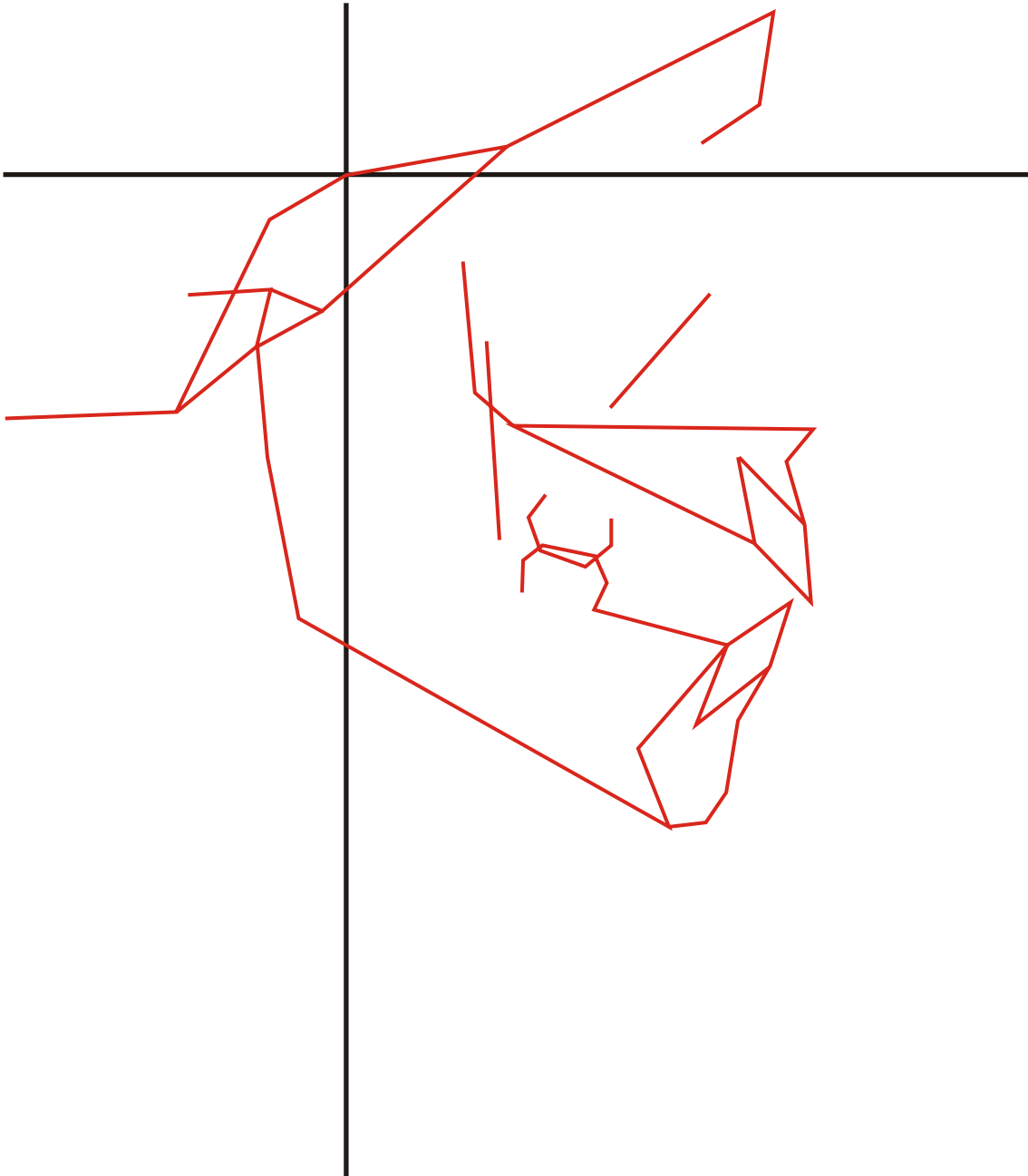
Guatemalan Indian Female

Age: 9.56 - 10.55 years



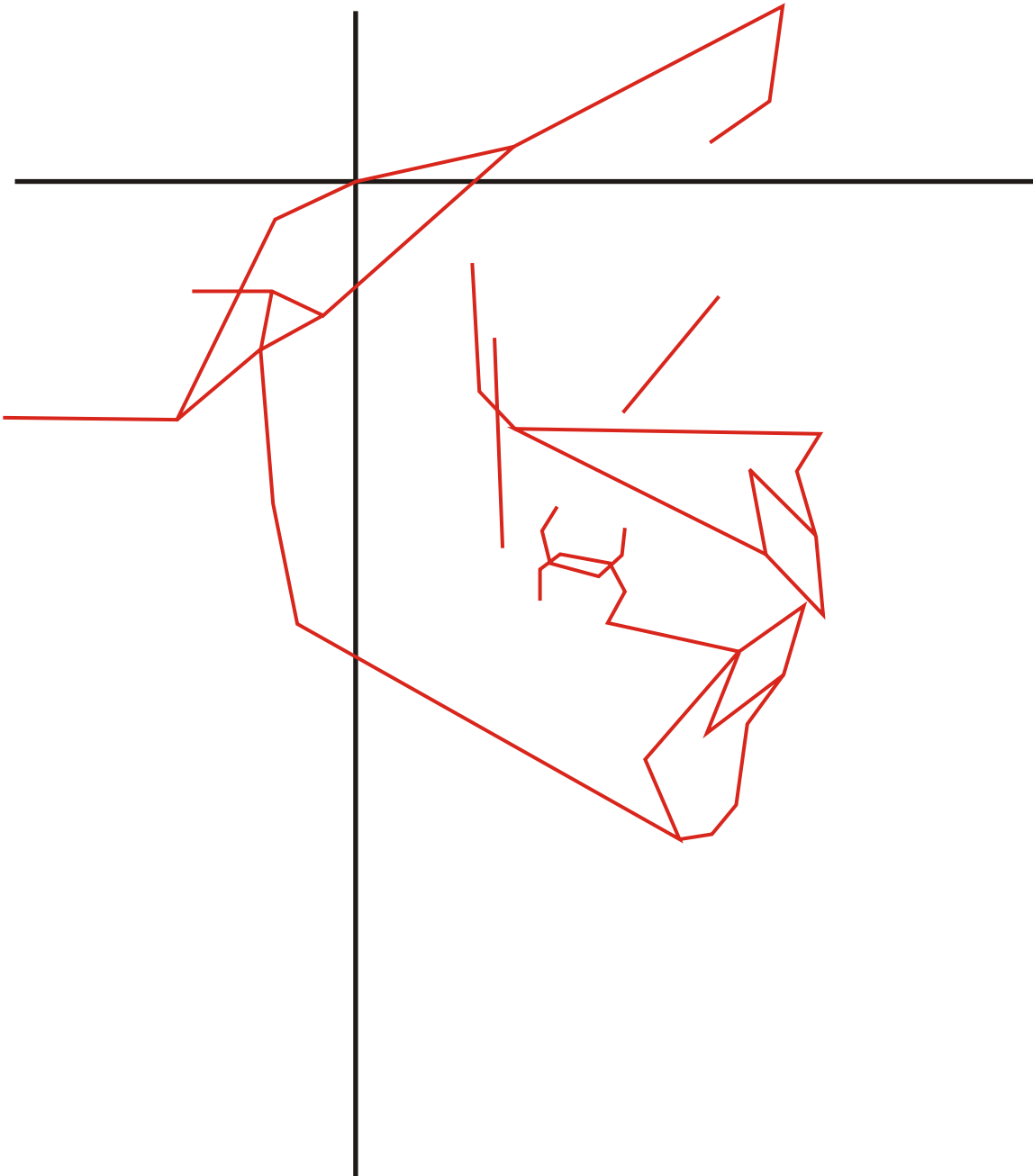
Guatemalan Indian Female

Age: 10.56 - 11.55 years



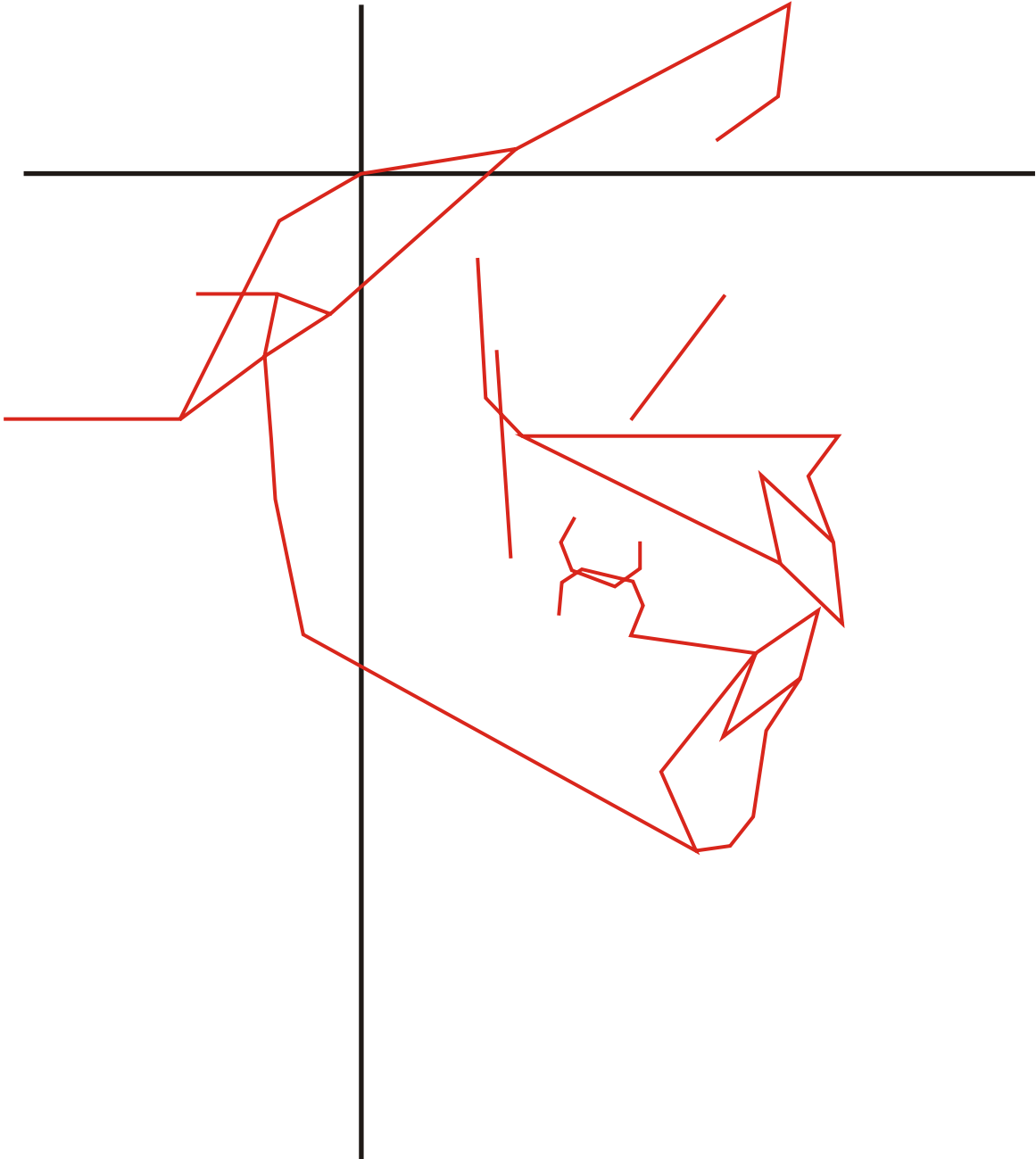
Guatemalan Indian Female

Age: 11.56 - 12.55 years



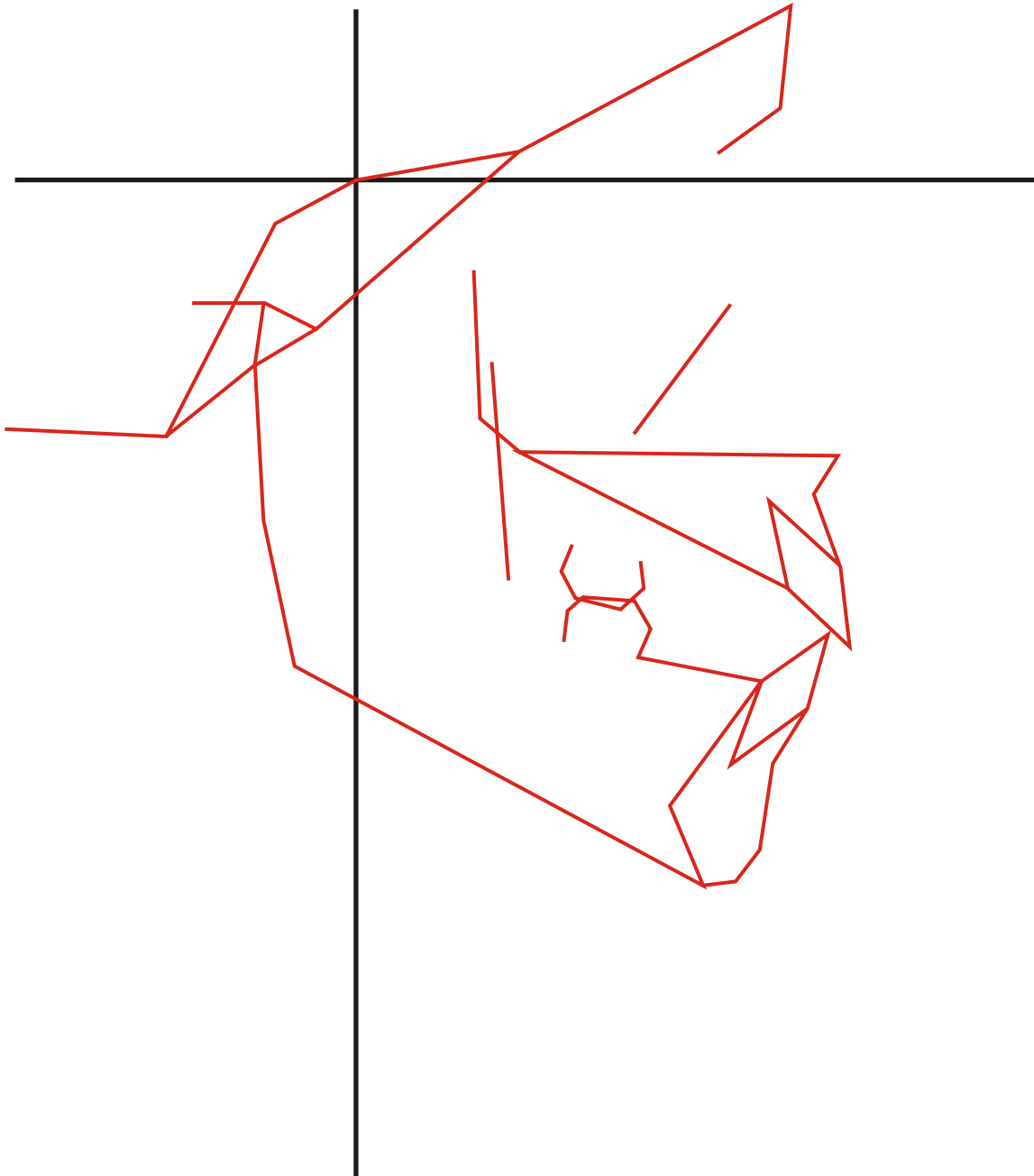
Guatemalan Indian Female

Age: 12.56 - 13.55 years



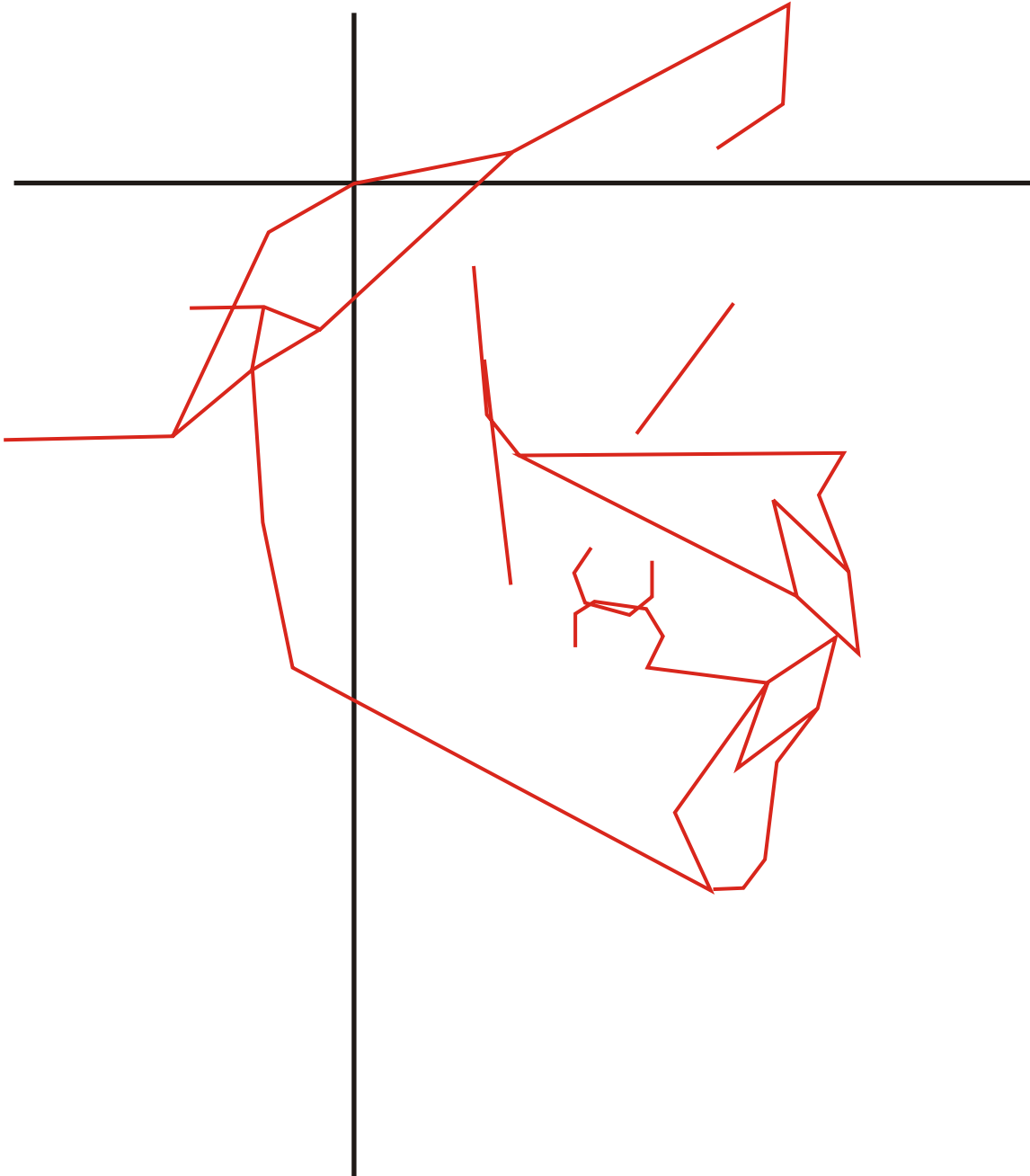
Guatemalan Indian Female

Age: 13.56 - 14.55 years



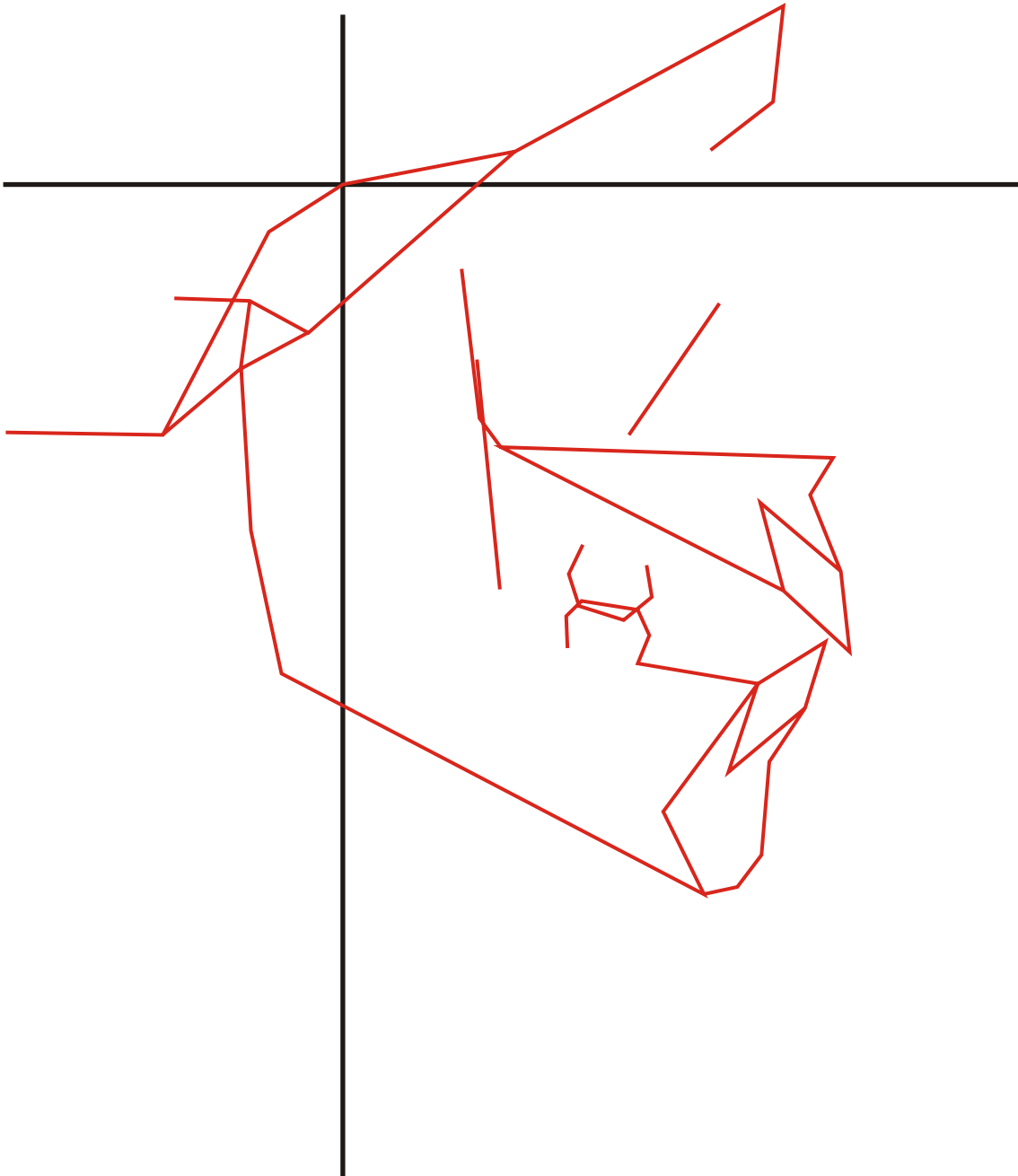
Guatemalan Indian Female

Age: 14.56 - 15.55 years



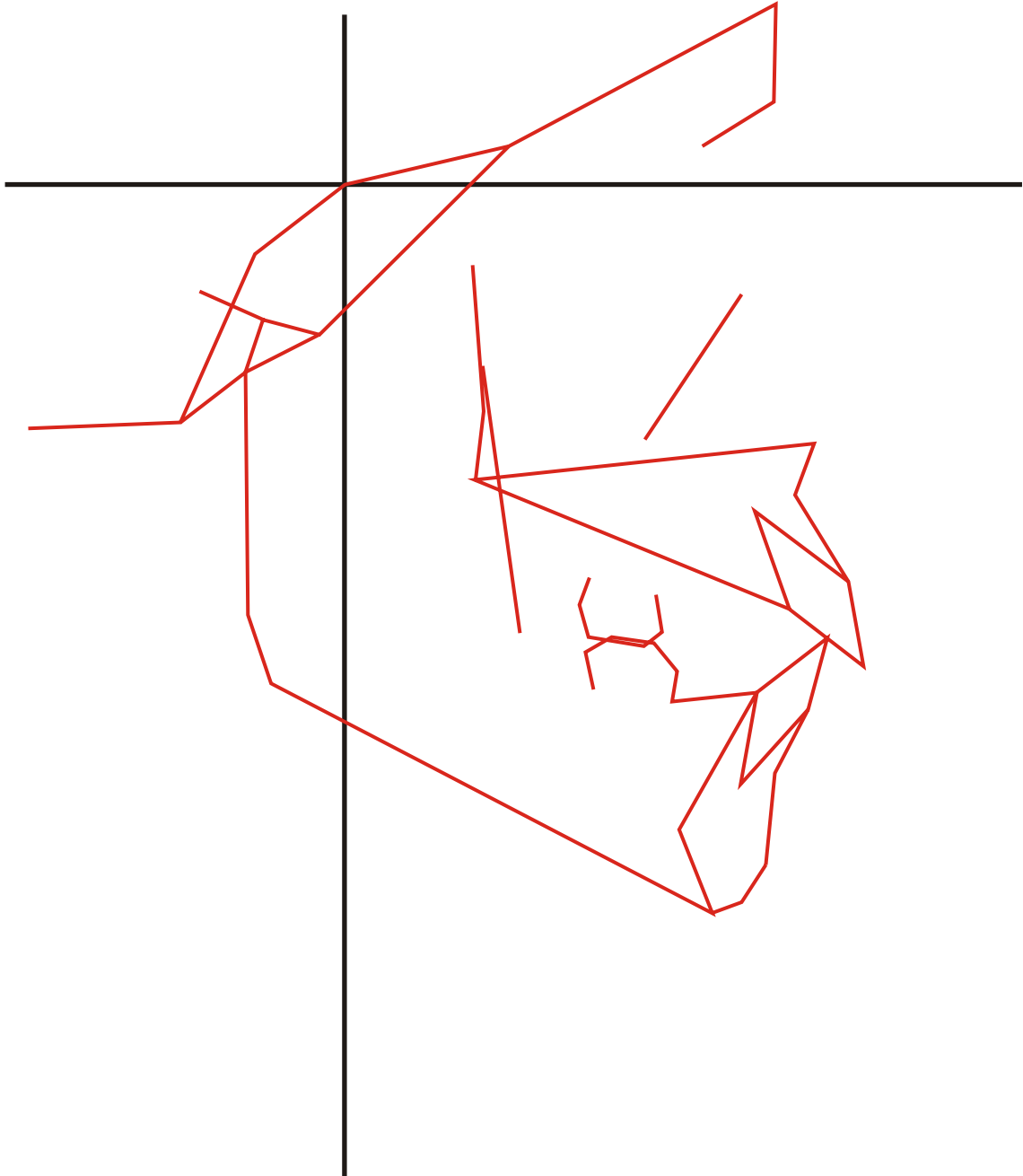
Guatemalan Indian Female

Age: 15.56 - 16.55 years



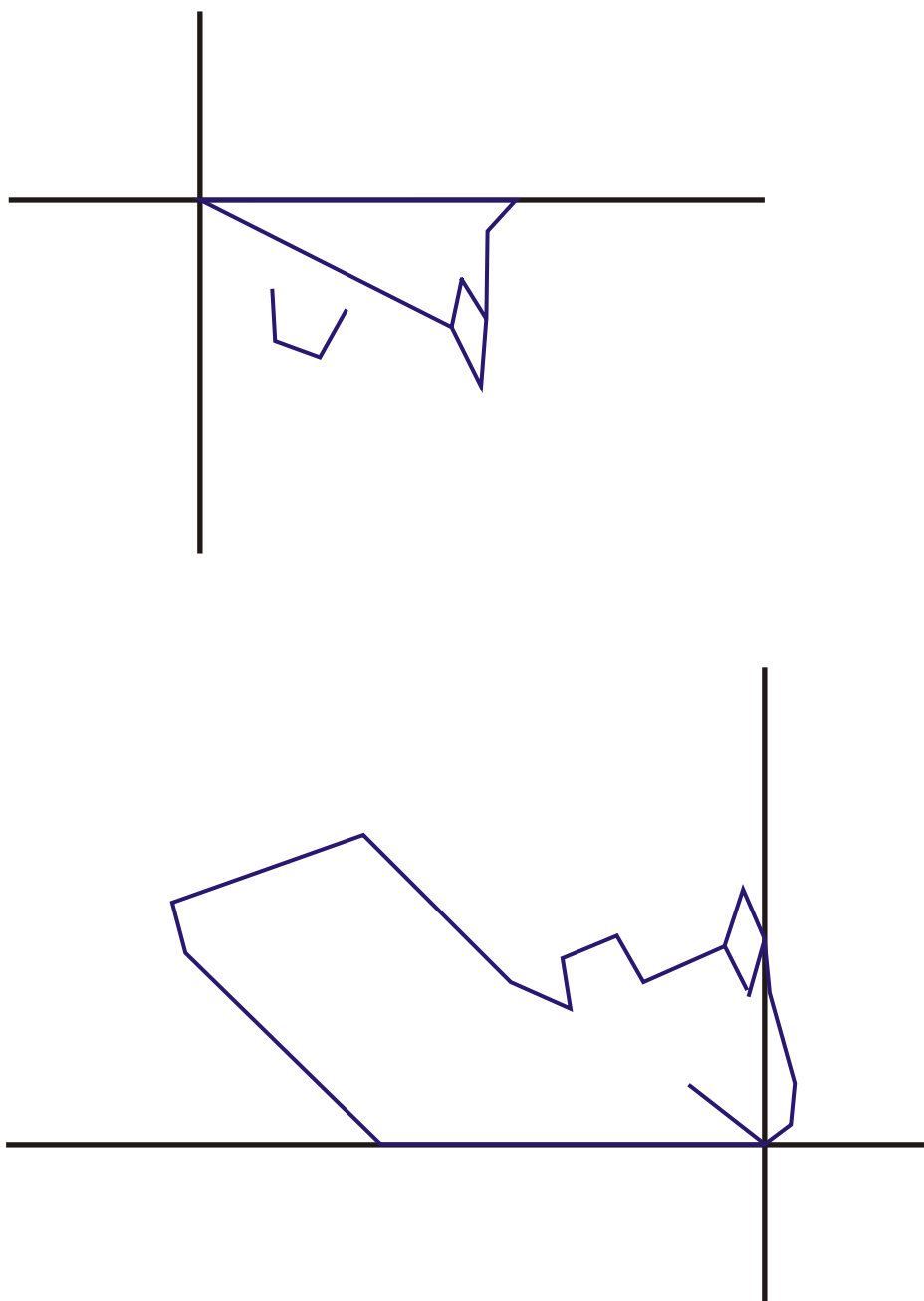
Guatemalan Indian Female

Age: 16.56 - 17.55 years



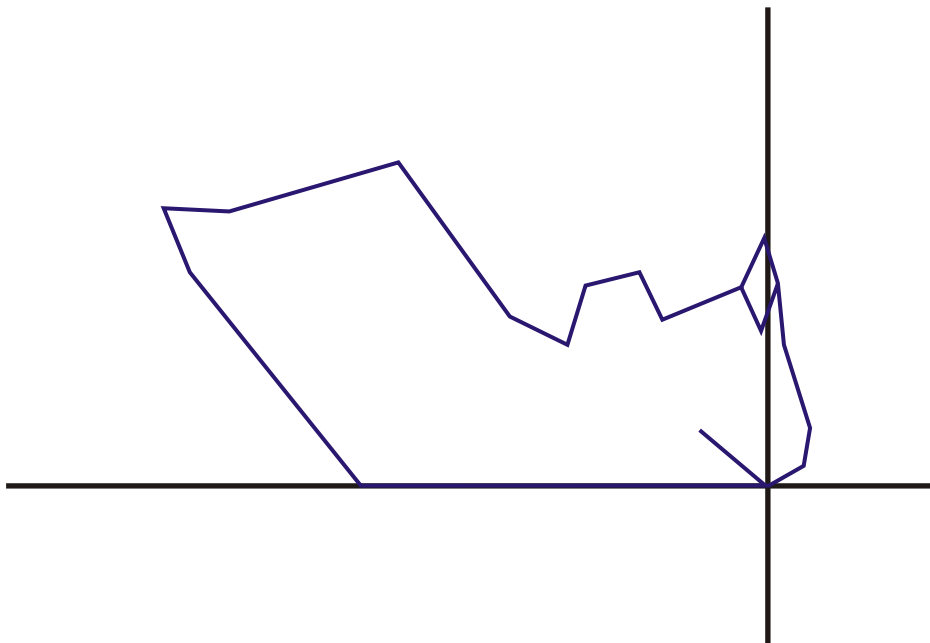
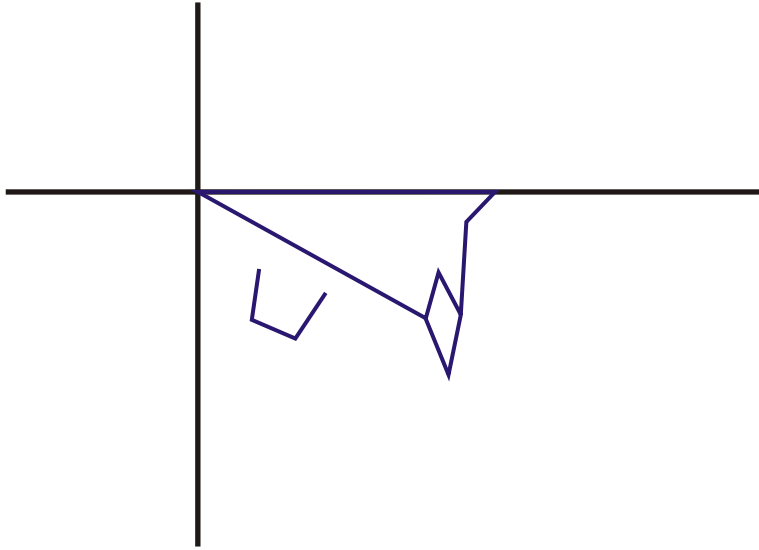
Guatemalan Indian Male

Age: 4.56 - 5.55 years



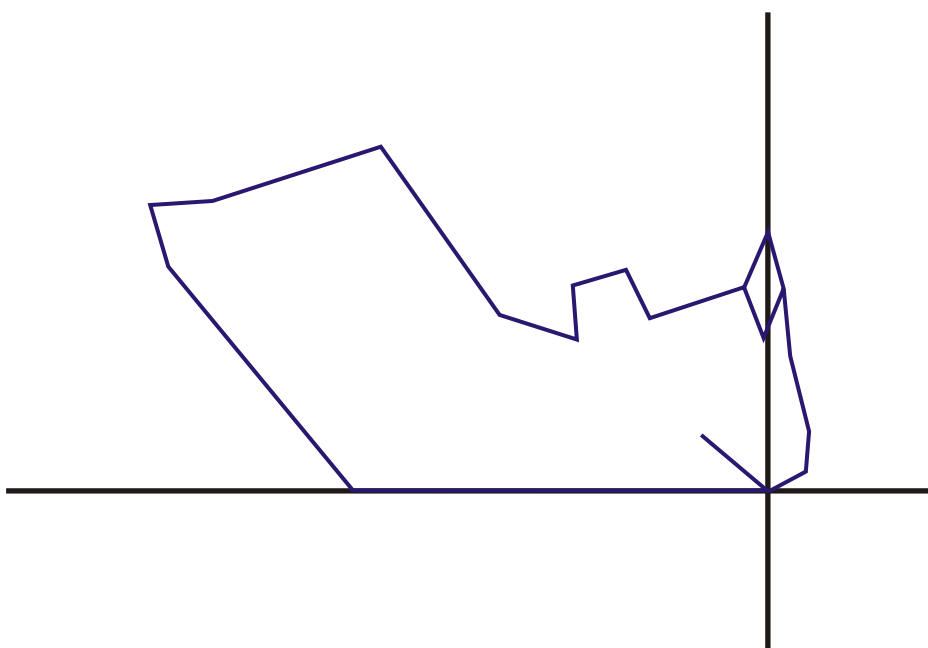
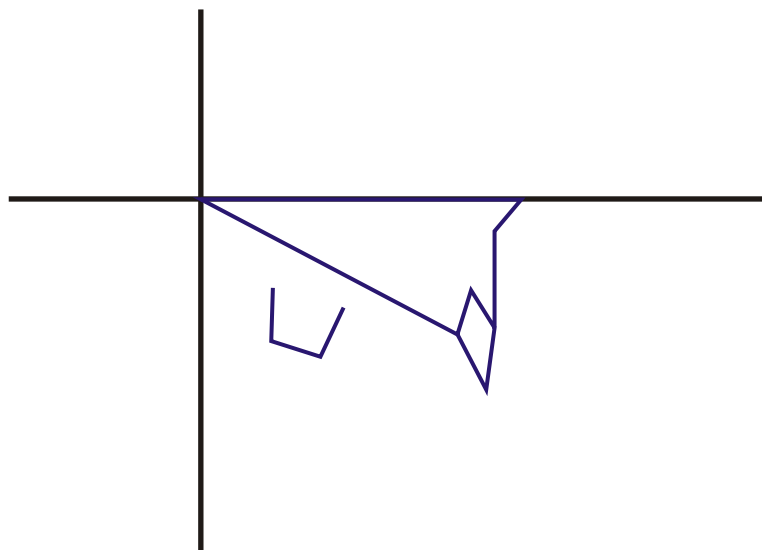
Guatemalan Indian Male

Age: 5.56 - 6.55 years



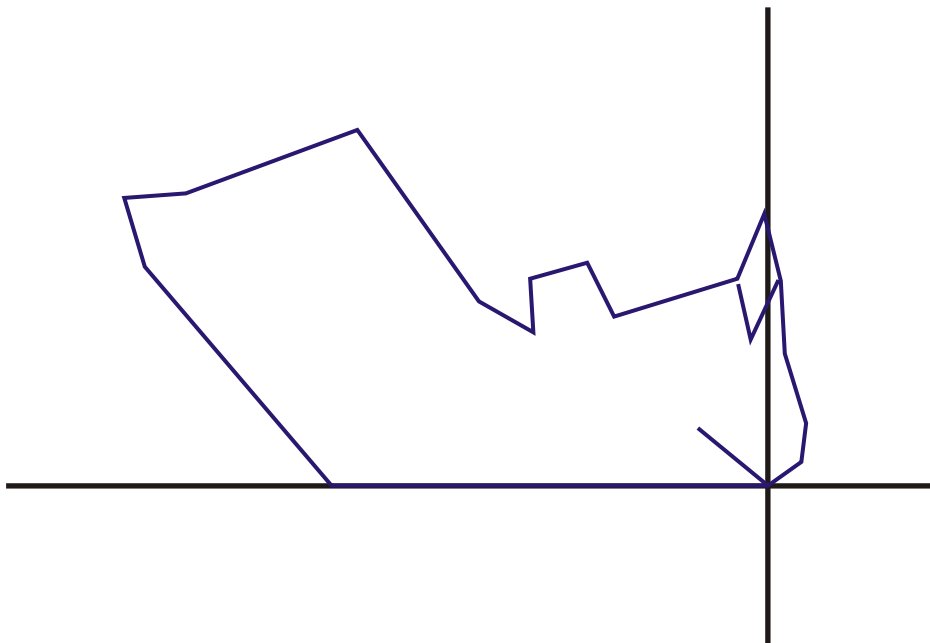
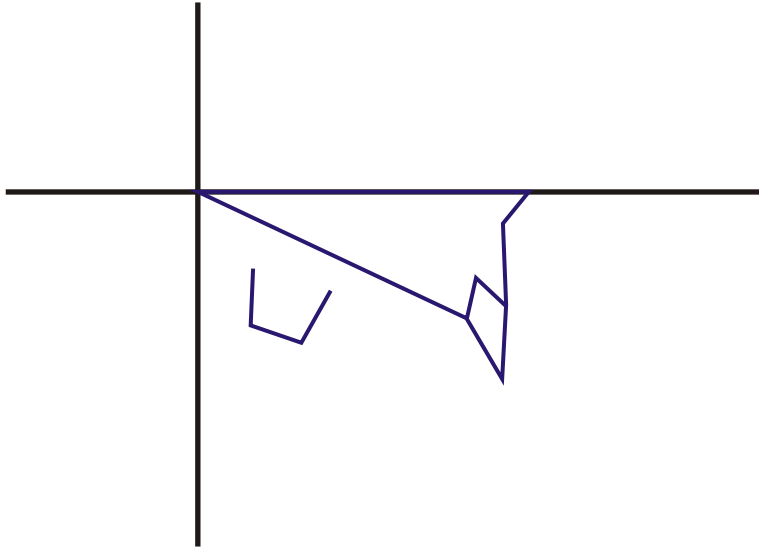
Guatemalan Indian Male

Age: 6.56 - 7.55 years



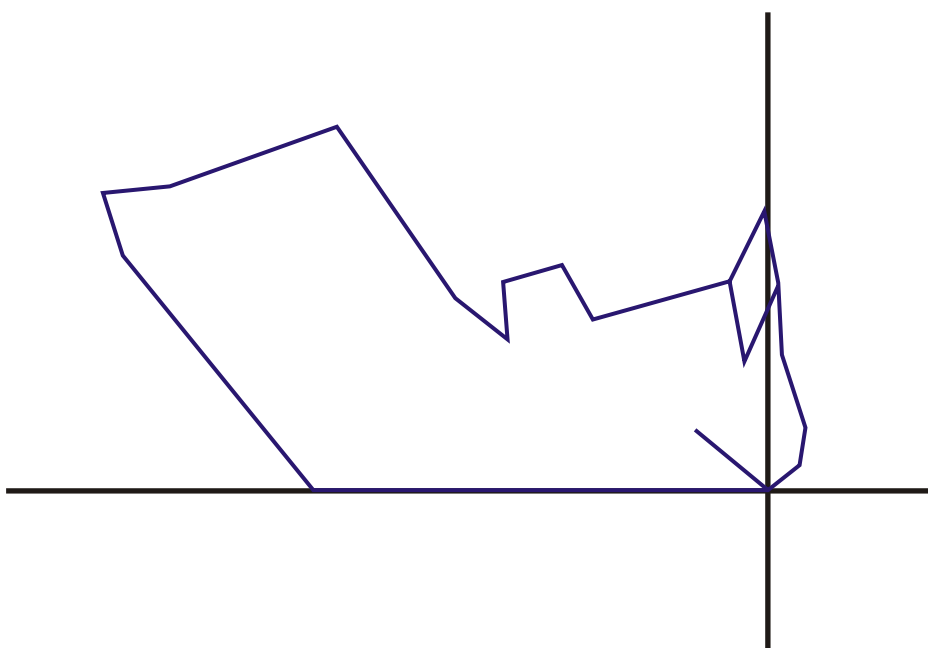
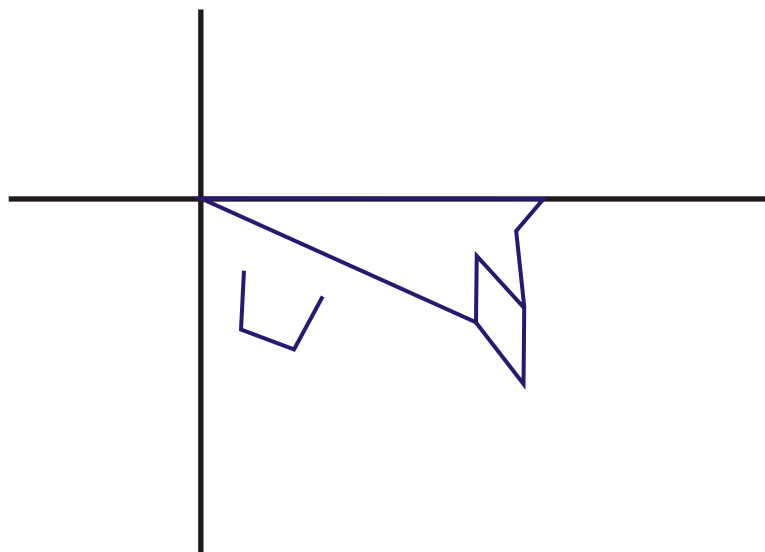
Guatemalan Indian Male

Age: 7.56 - 8.55 years



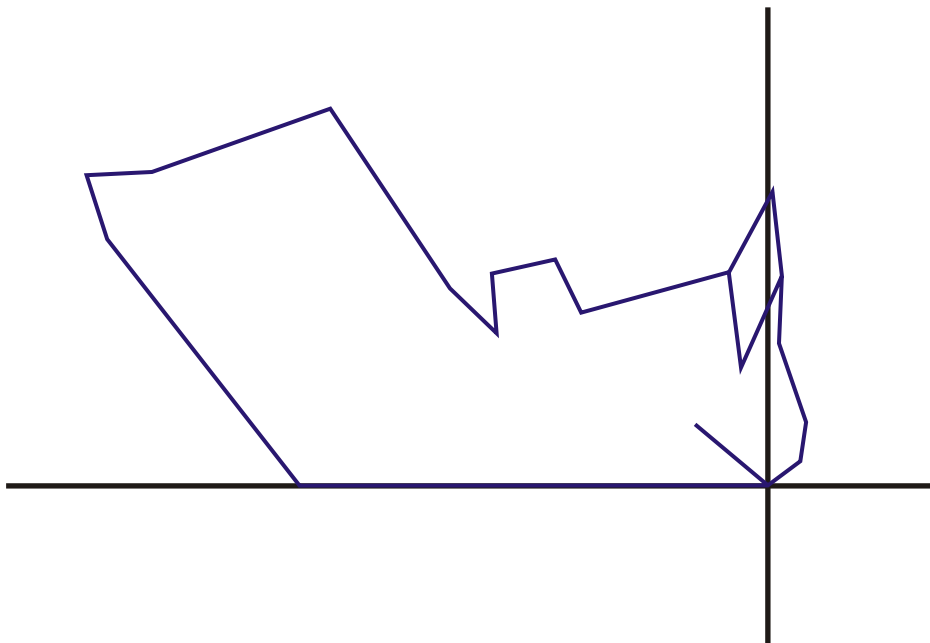
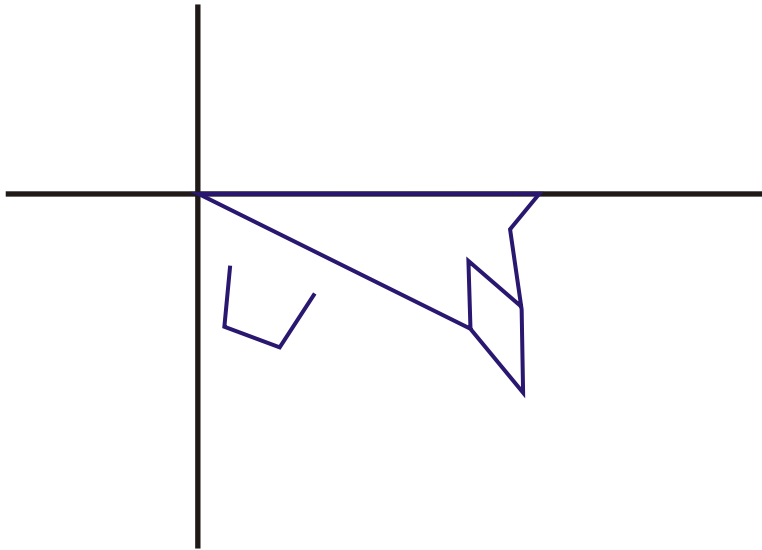
Guatemalan Indian Male

Age: 8.56 - 9.55 years



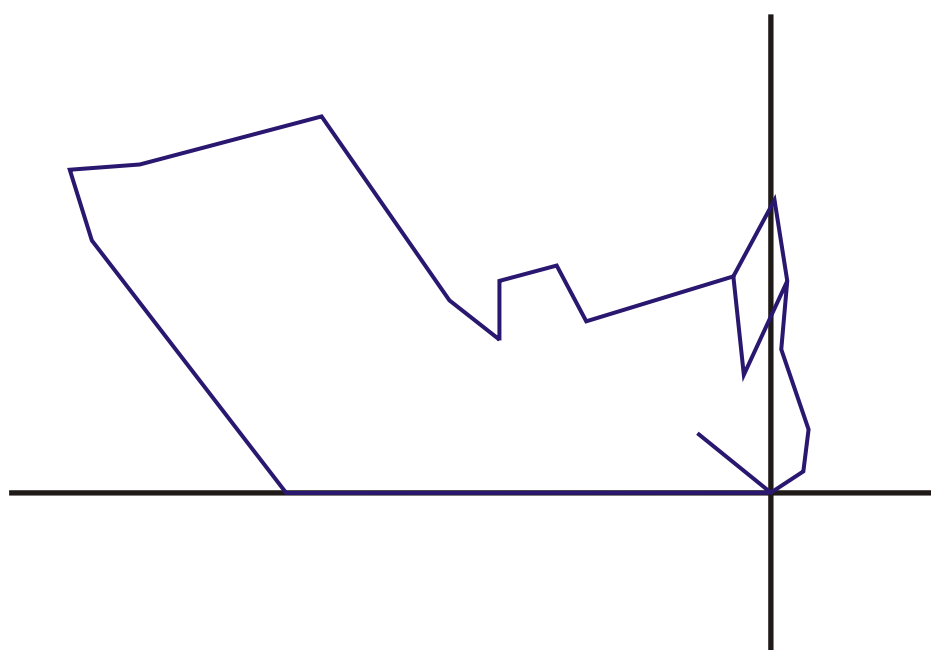
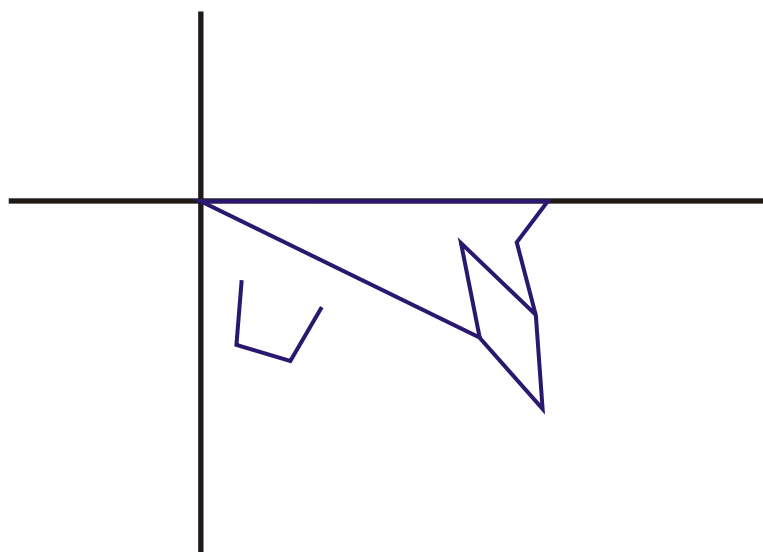
Guatemalan Indian Male

Age: 9.56 - 10.55 years



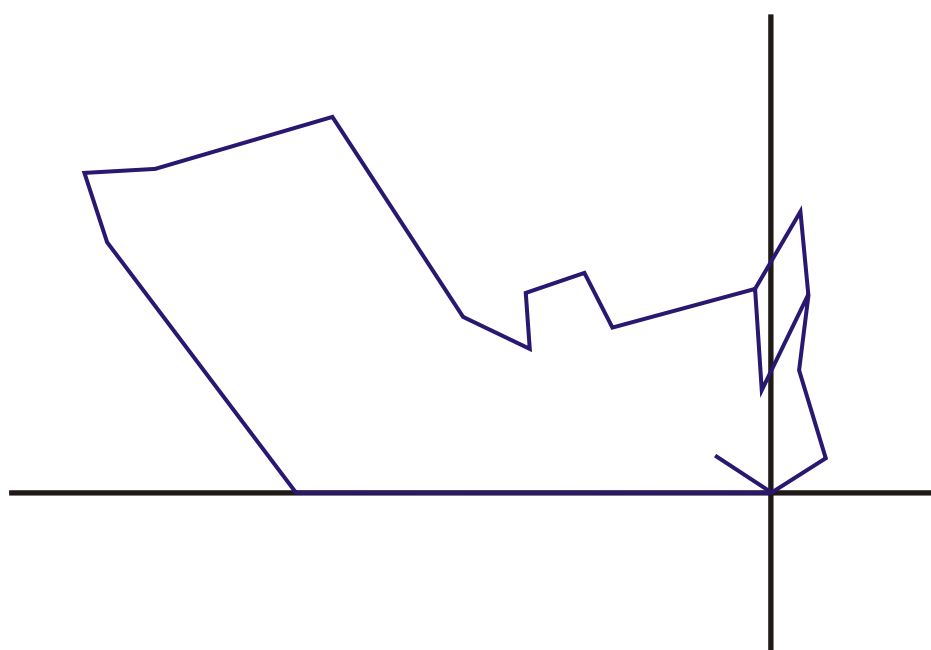
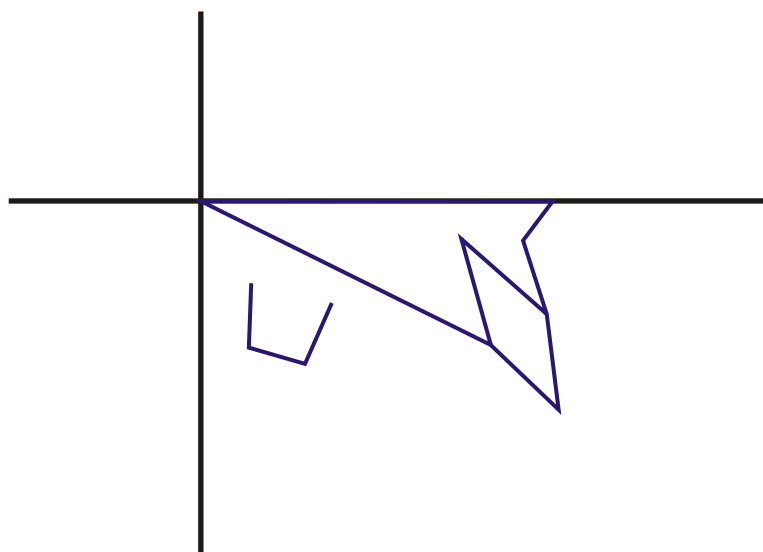
Guatemalan Indian Male

Age: 10.56 - 11.55 years



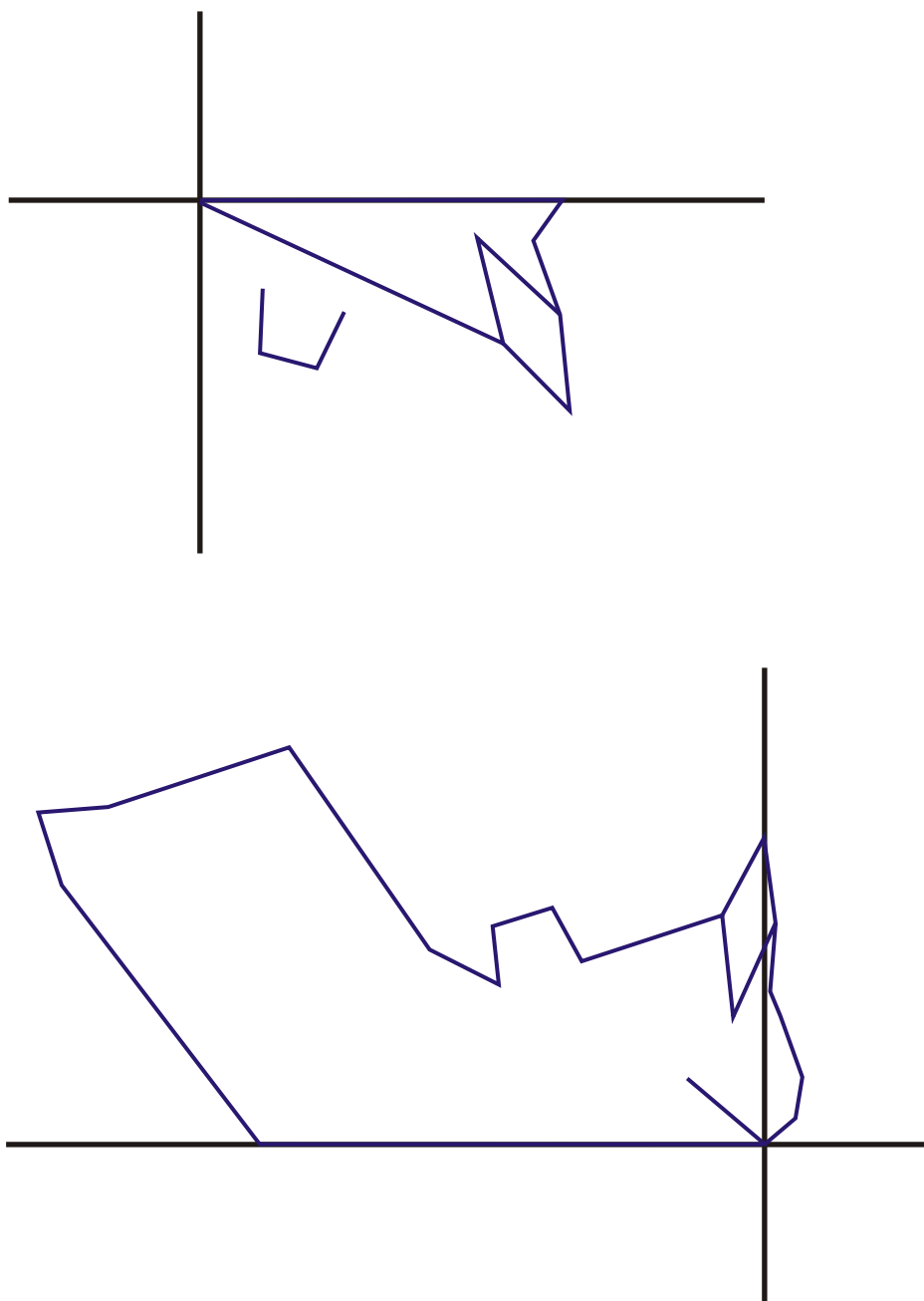
Guatemalan Indian Male

Age: 11.56 - 12.55 years



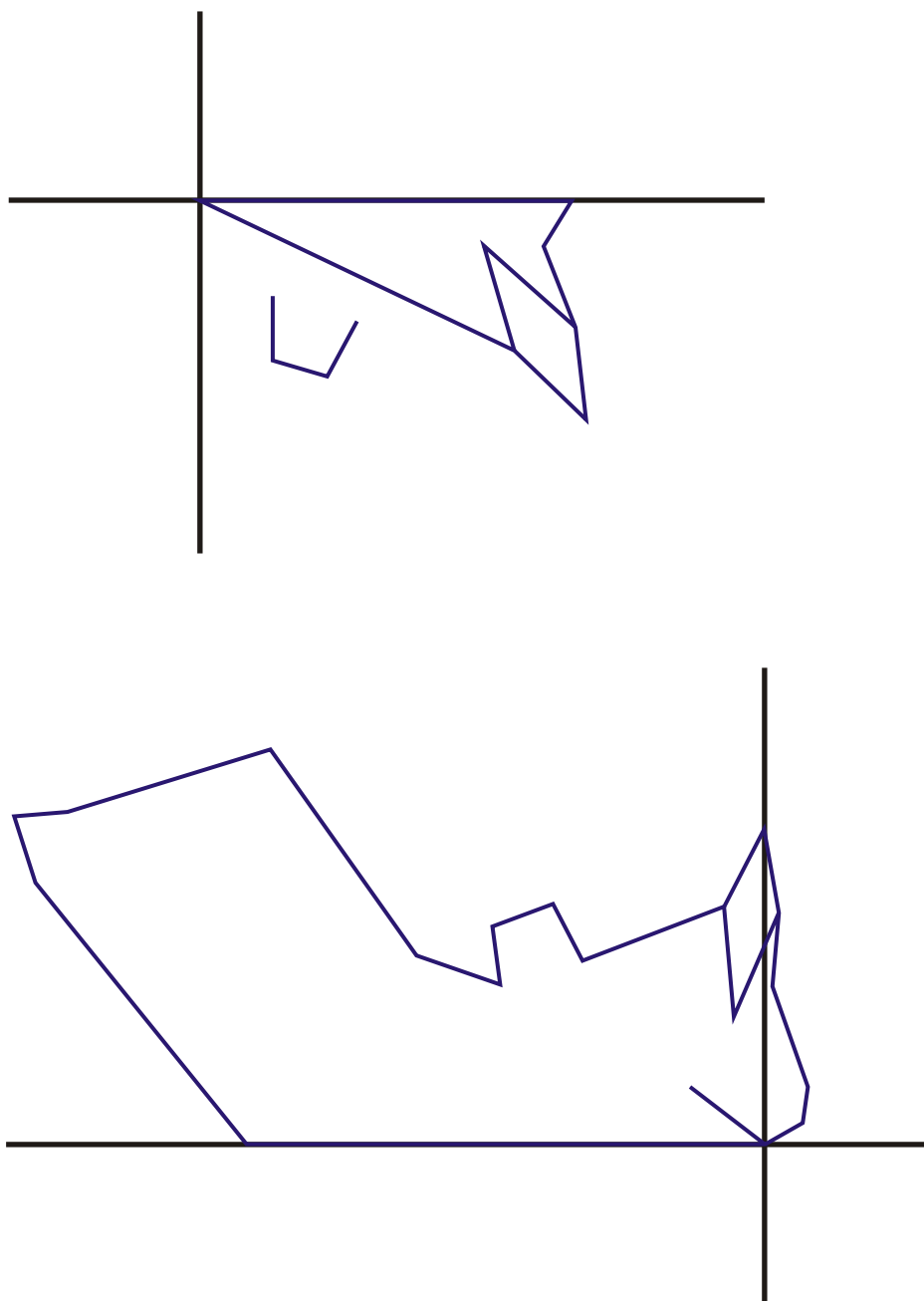
Guatemalan Indian Male

Age: 12.56 - 13.55 years



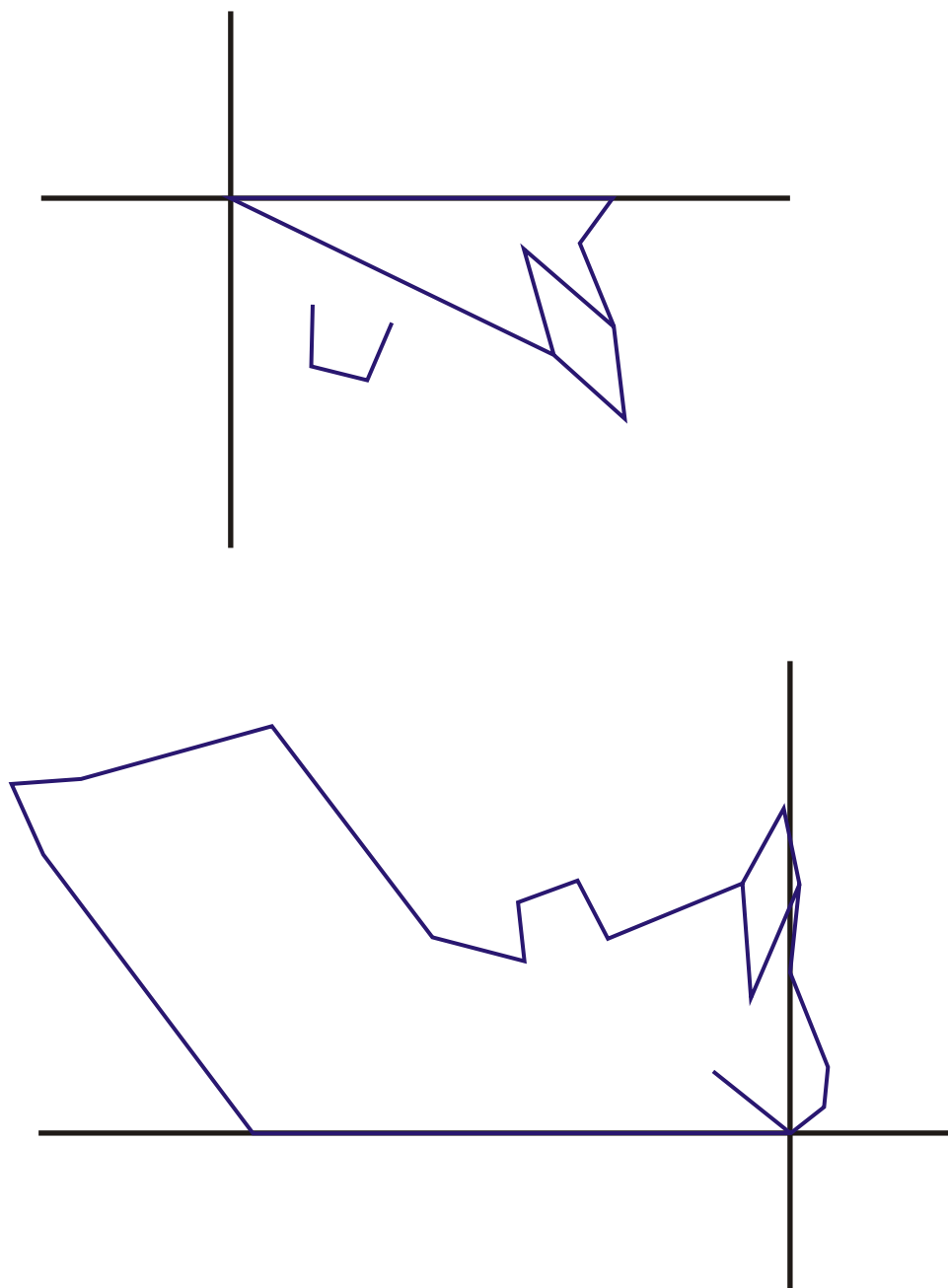
Guatemalan Indian Male

Age: 13.56 - 14.55 years



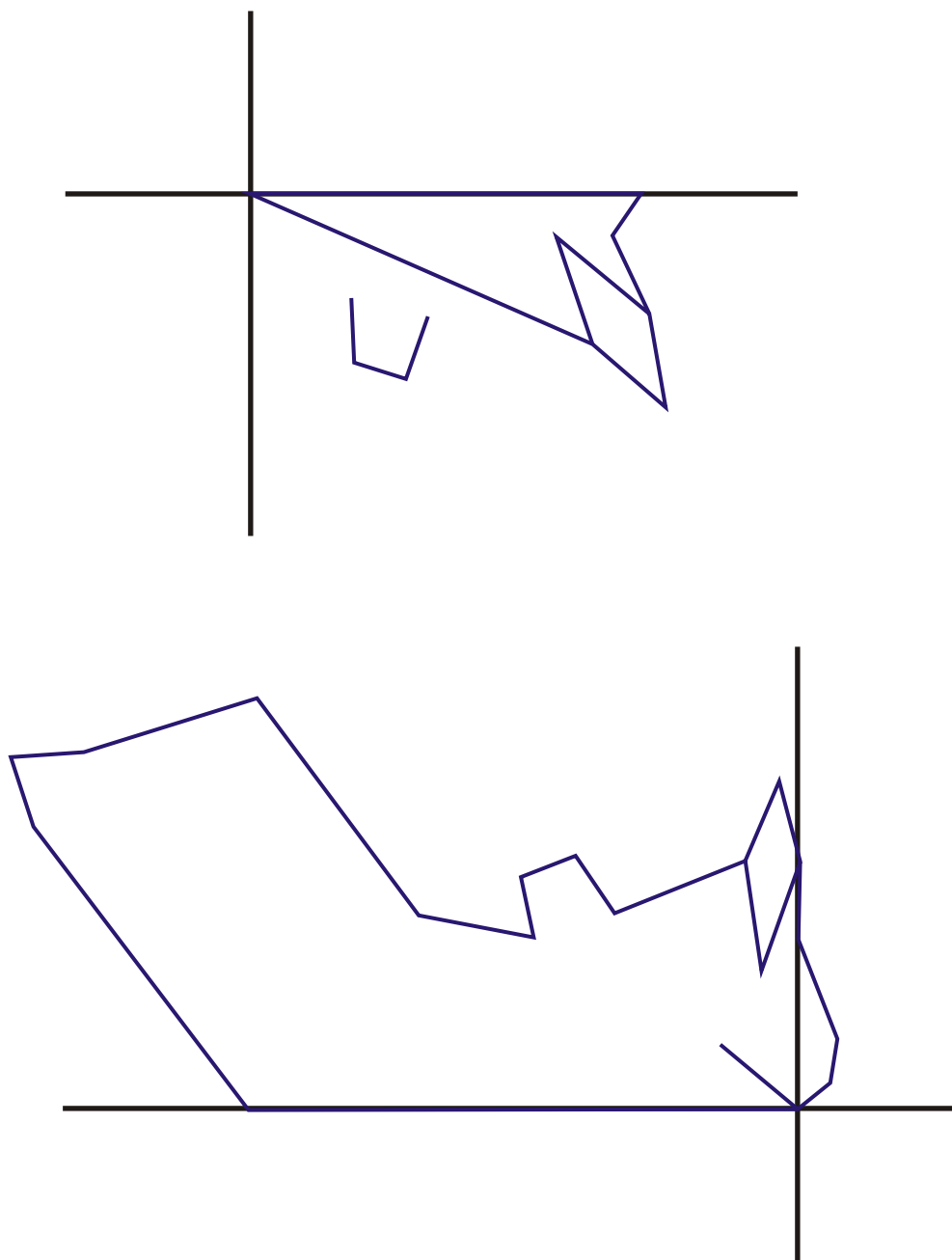
Guatemalan Indian Male

Age: 14.56 - 15.55 years



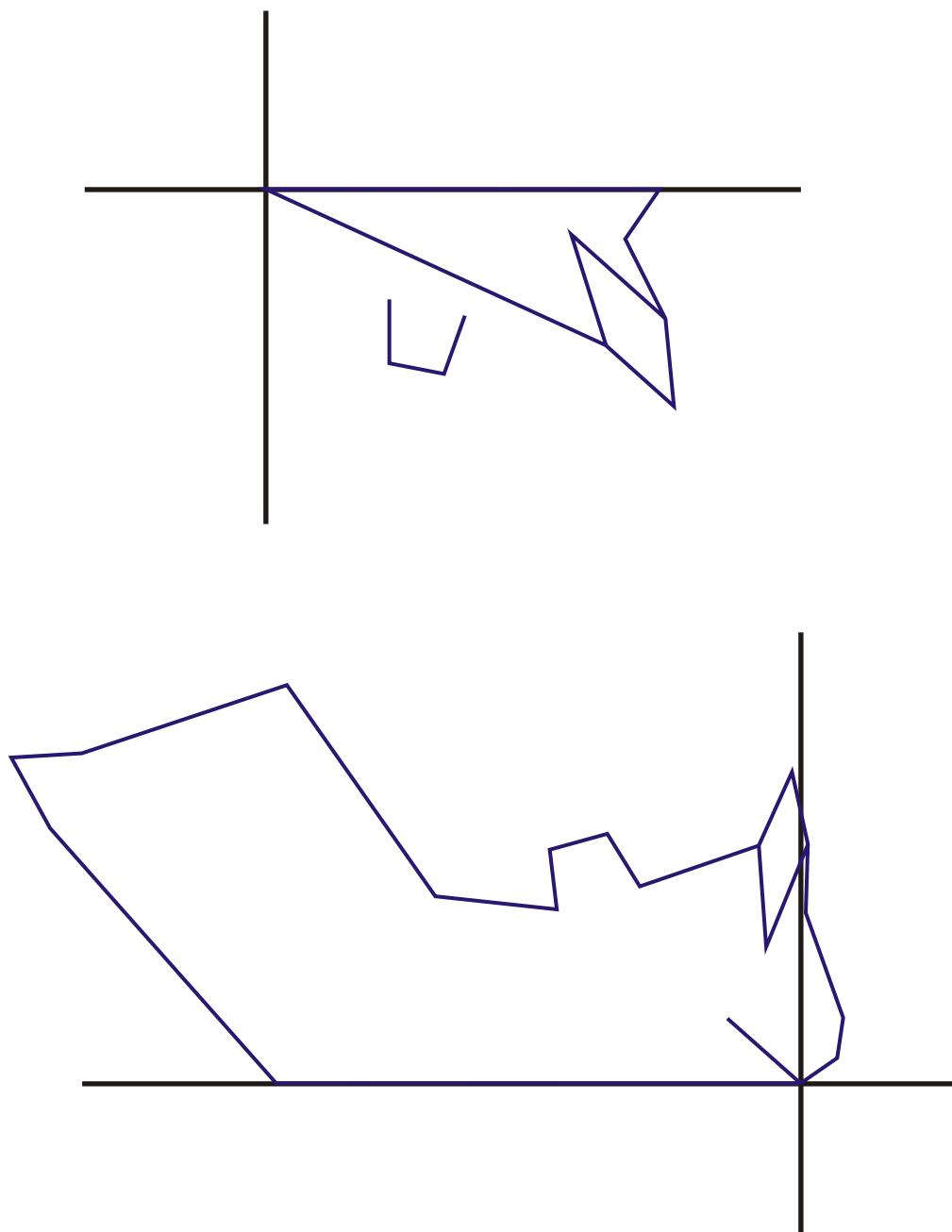
Guatemalan Indian Male

Age: 15.56 - 16.55 years



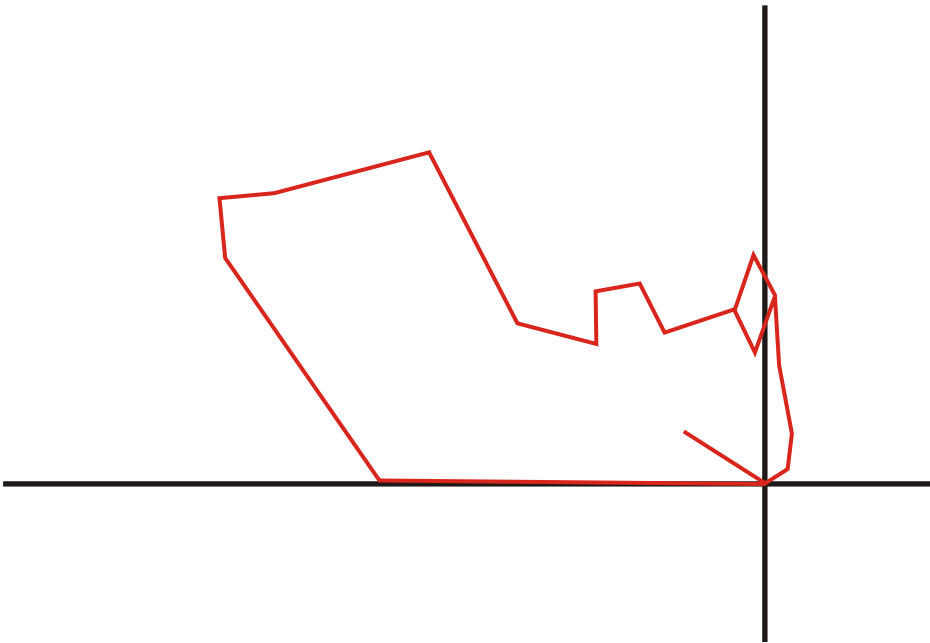
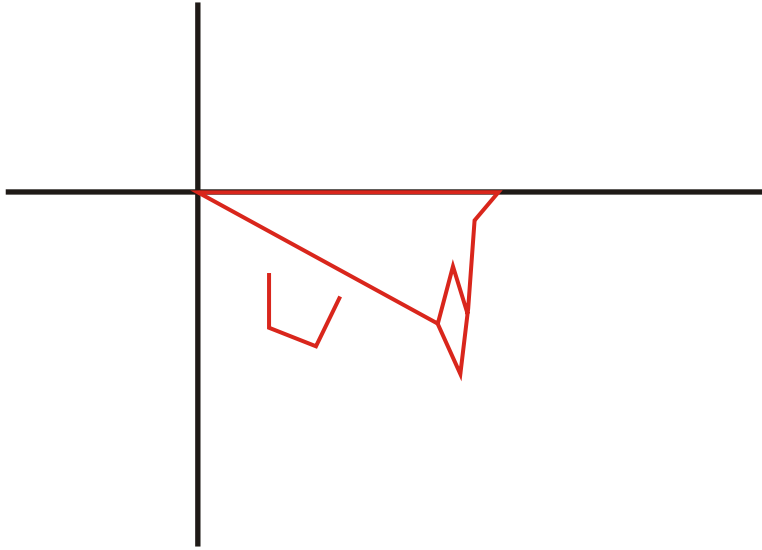
Guatemalan Indian Male

Age: 16.56 - 17.55 years



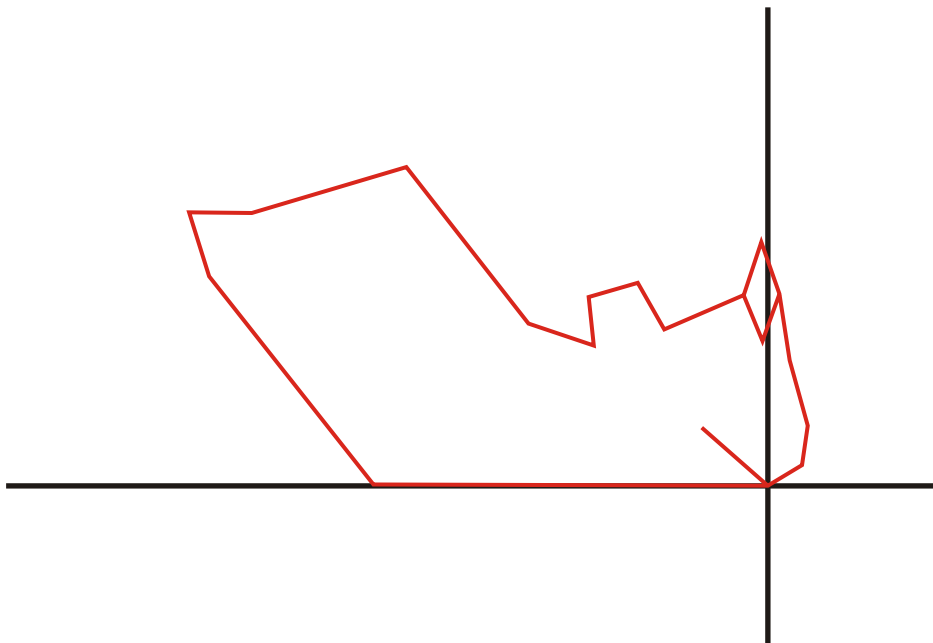
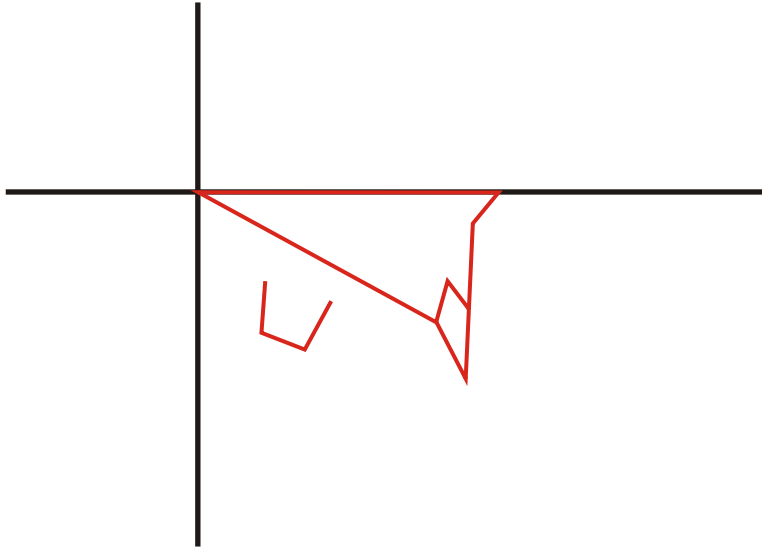
Guatemalan Indian Female

Age: 3.56 - 4.55 years



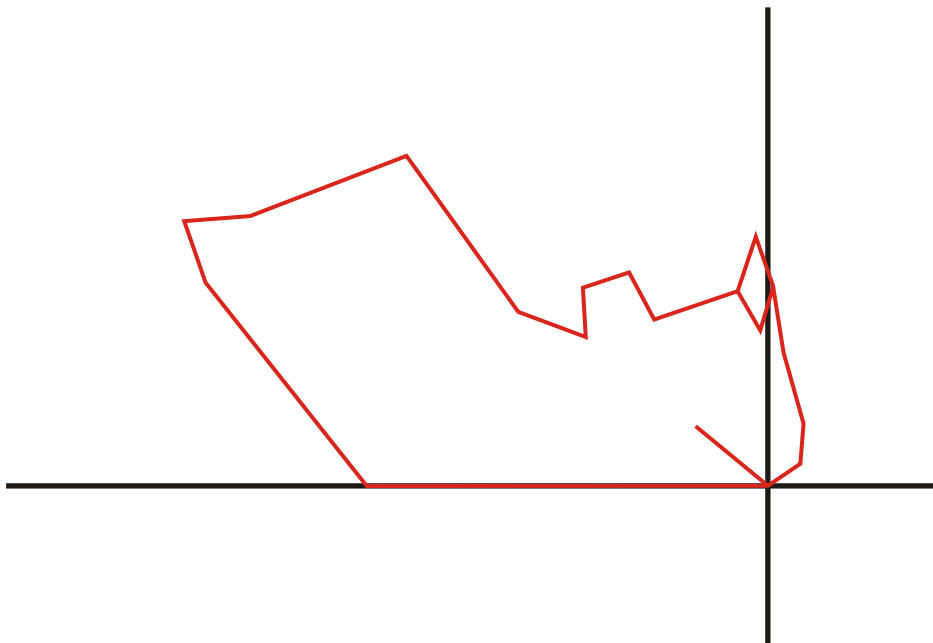
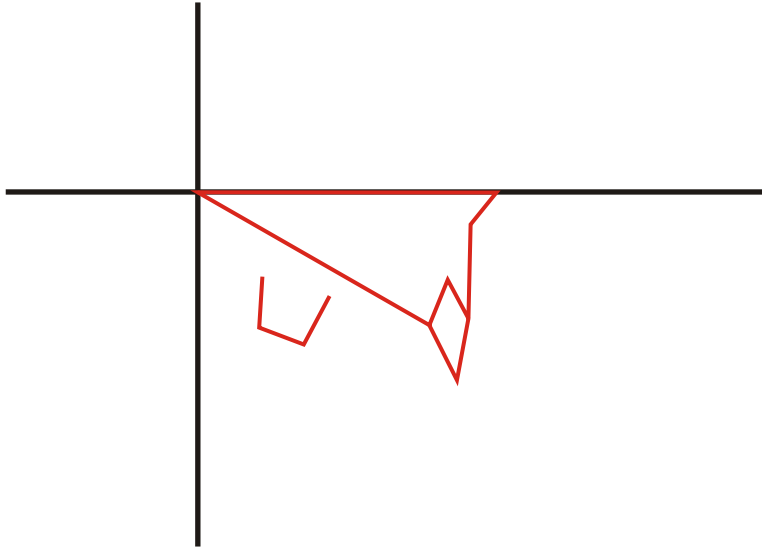
Guatemalan Indian Female

Age: 4.56 - 5.55 years



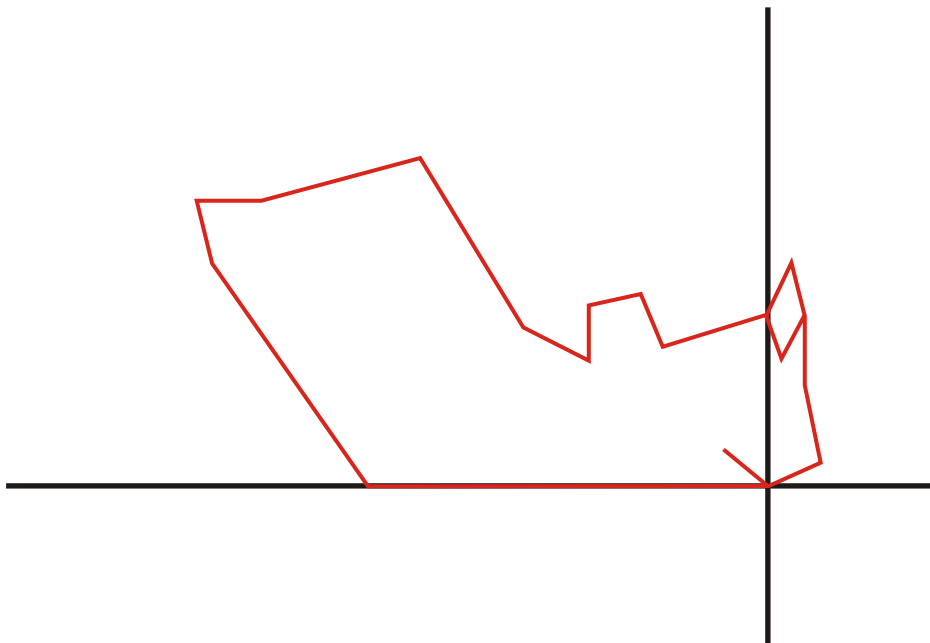
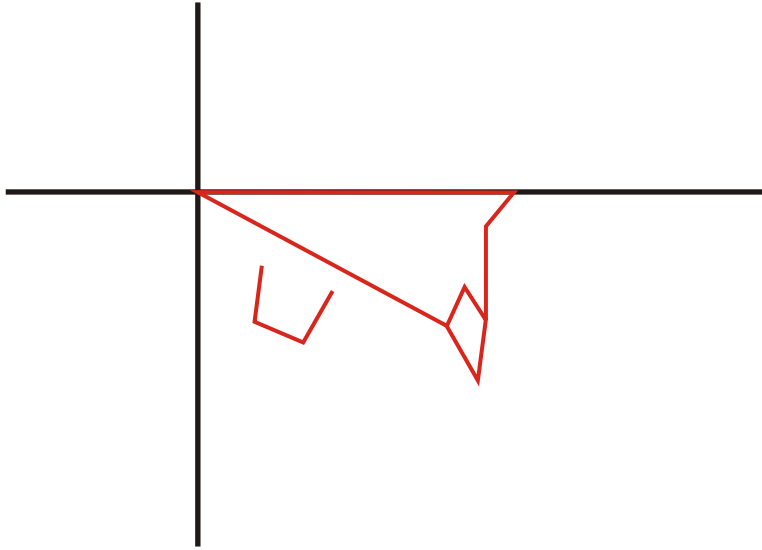
Guatemalan Indian Female

Age: 5.56 - 6.55 years



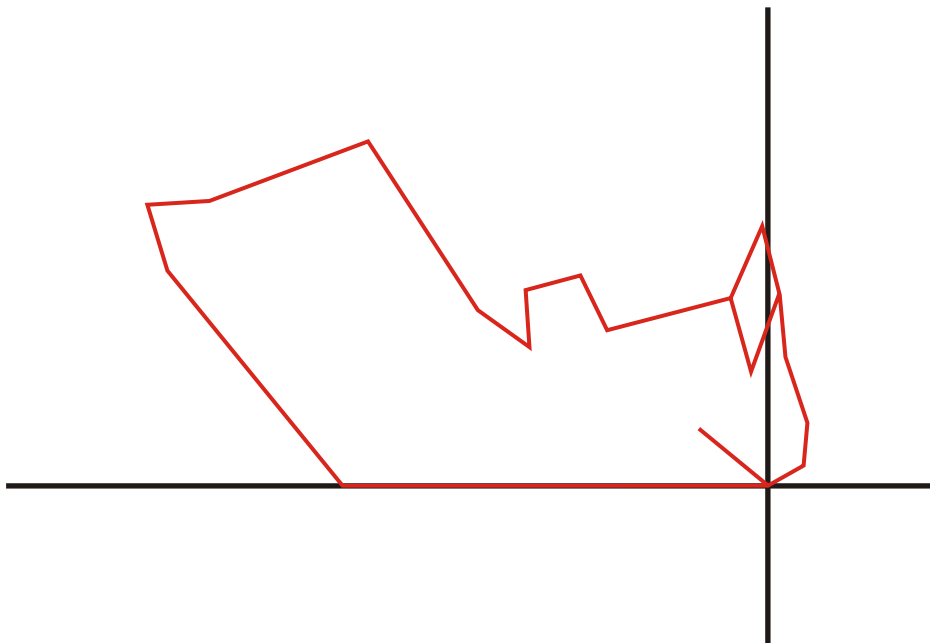
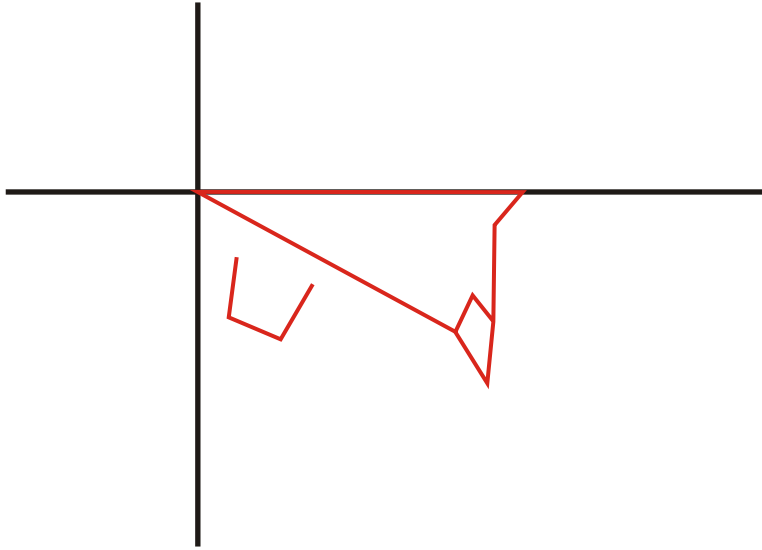
Guatemalan Indian Female

Age: 6.56 - 7.55 years



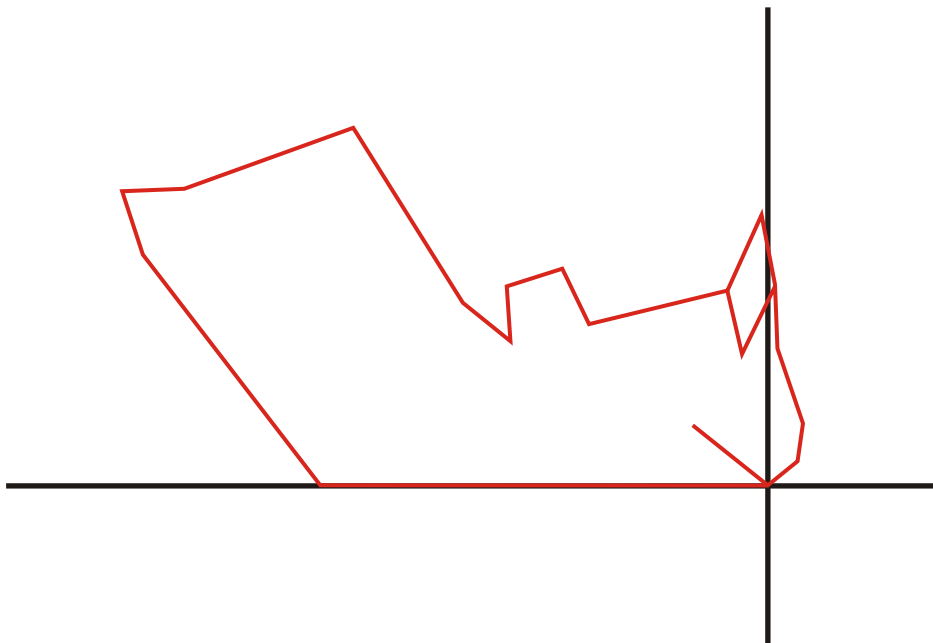
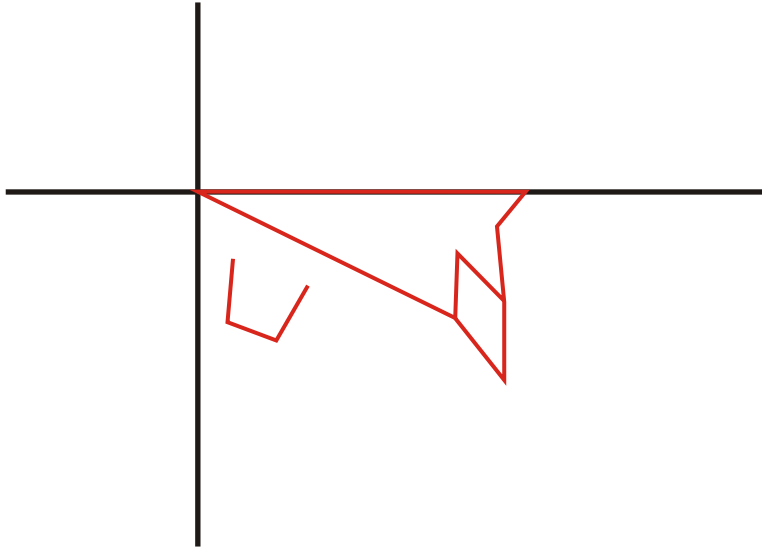
Guatemalan Indian Female

Age: 7.56 - 8.55 years



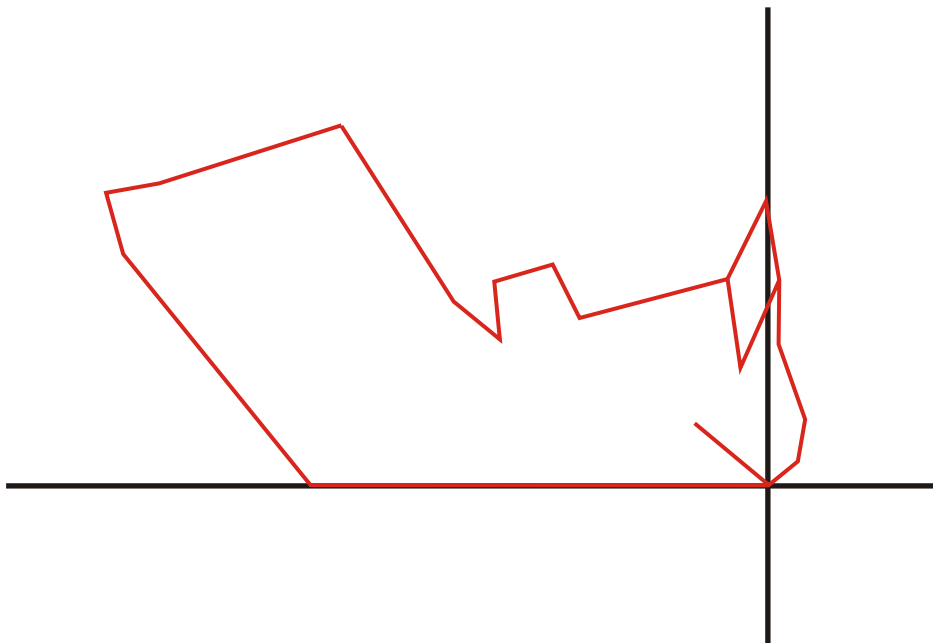
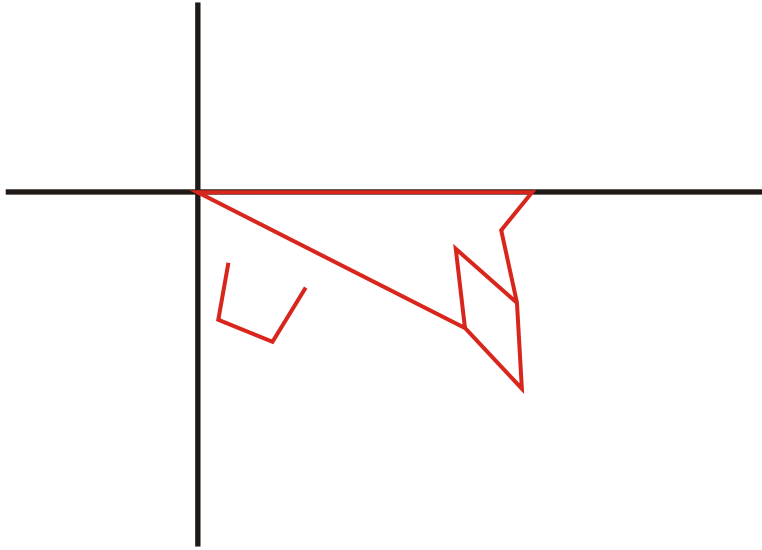
Guatemalan Indian Female

Age: 8.56 - 9.55 years



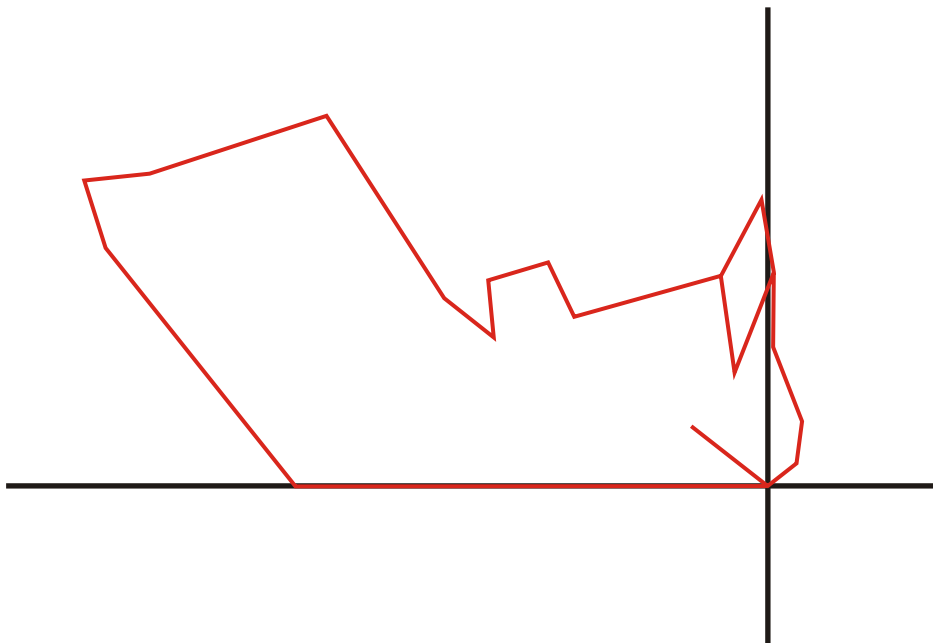
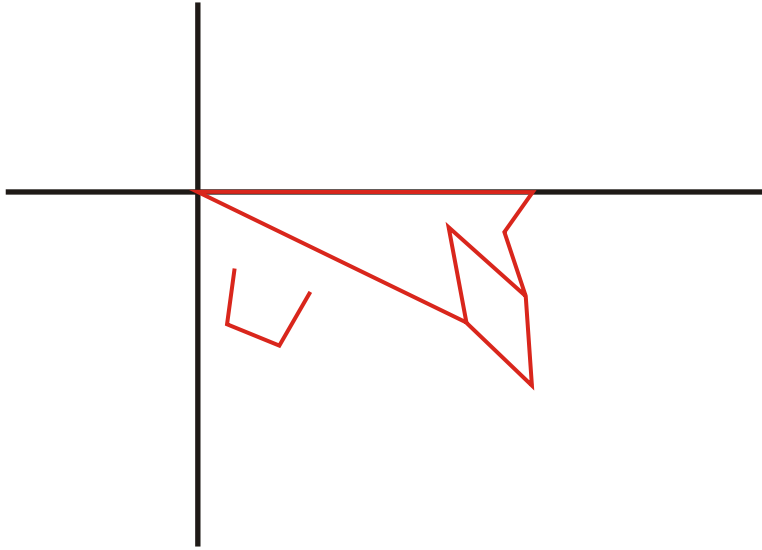
Guatemalan Indian Female

Age: 9.56 - 10.55 years



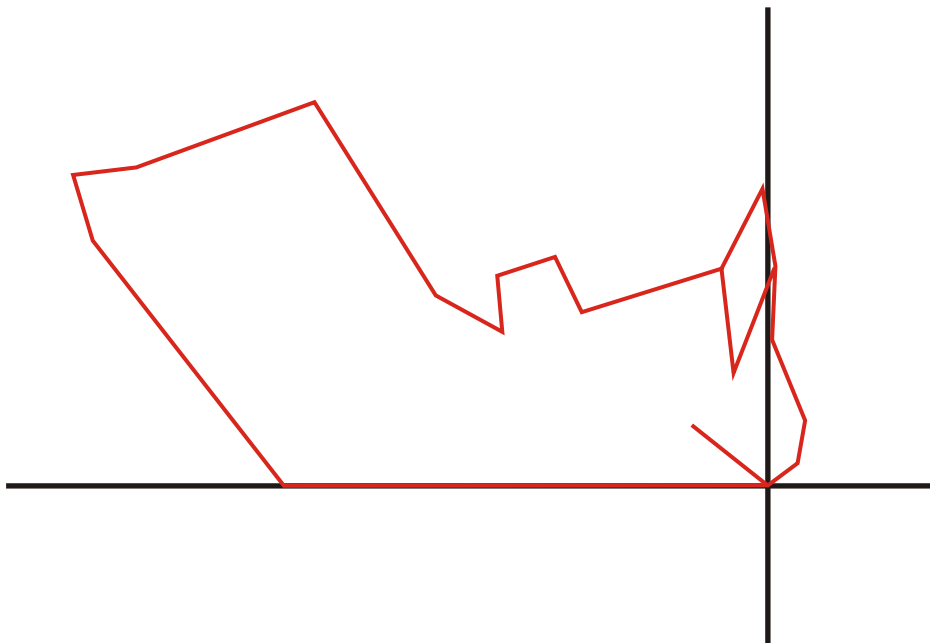
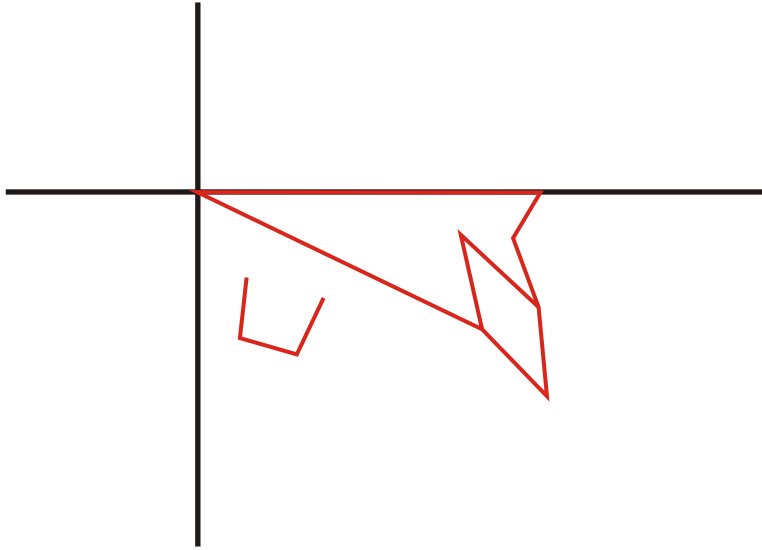
Guatemalan Indian Female

Age: 10.56 - 11.55 years



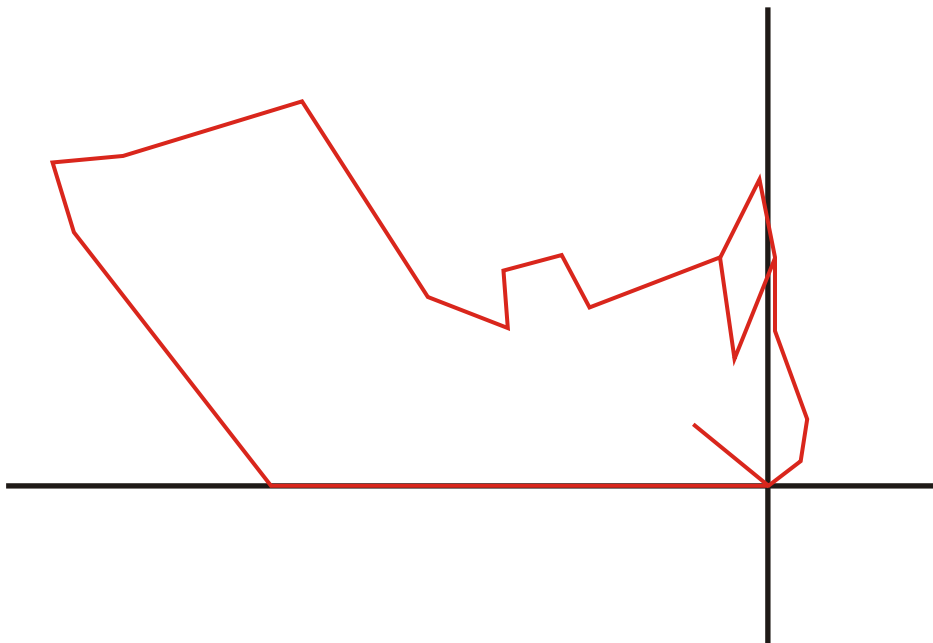
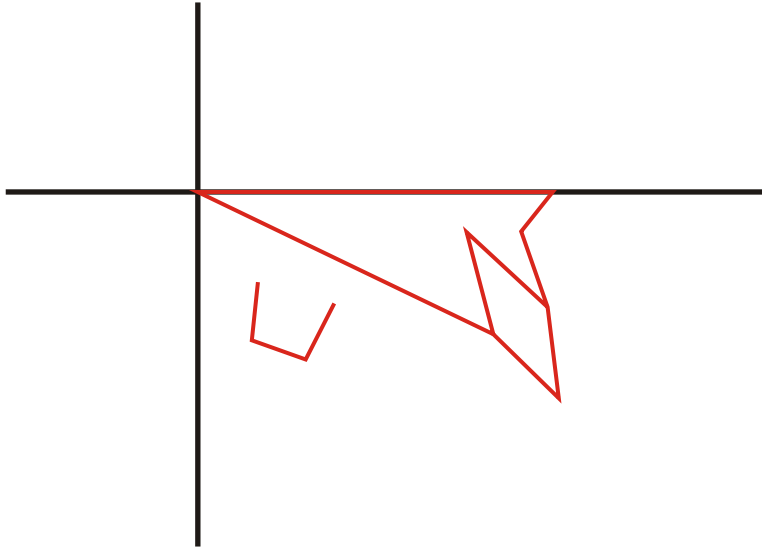
Guatemalan Indian Female

Age: 11.56 - 12.55 years



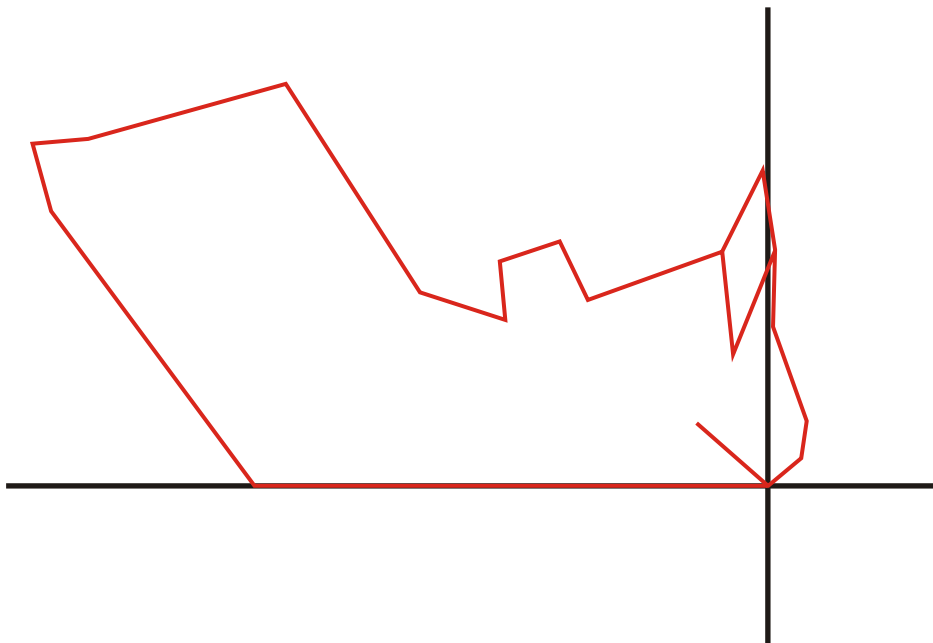
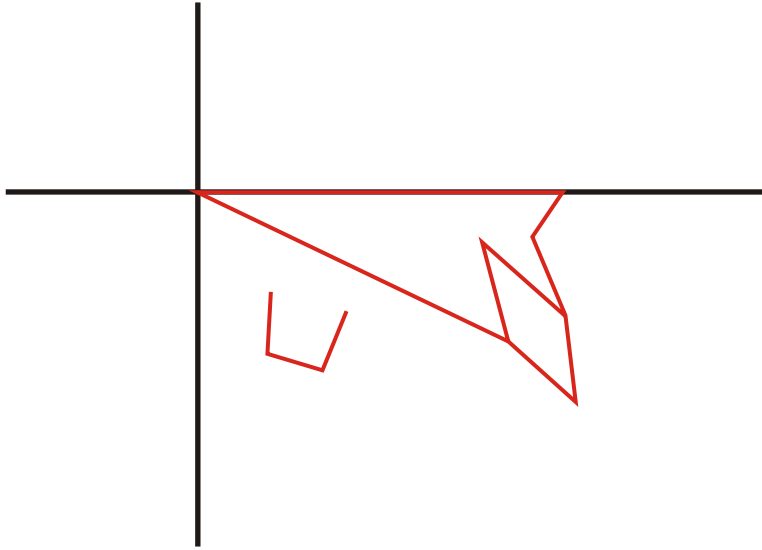
Guatemalan Indian Female

Age: 12.56 - 13.55 years



Guatemalan Indian Female

Age: 13.56 - 14.55 years



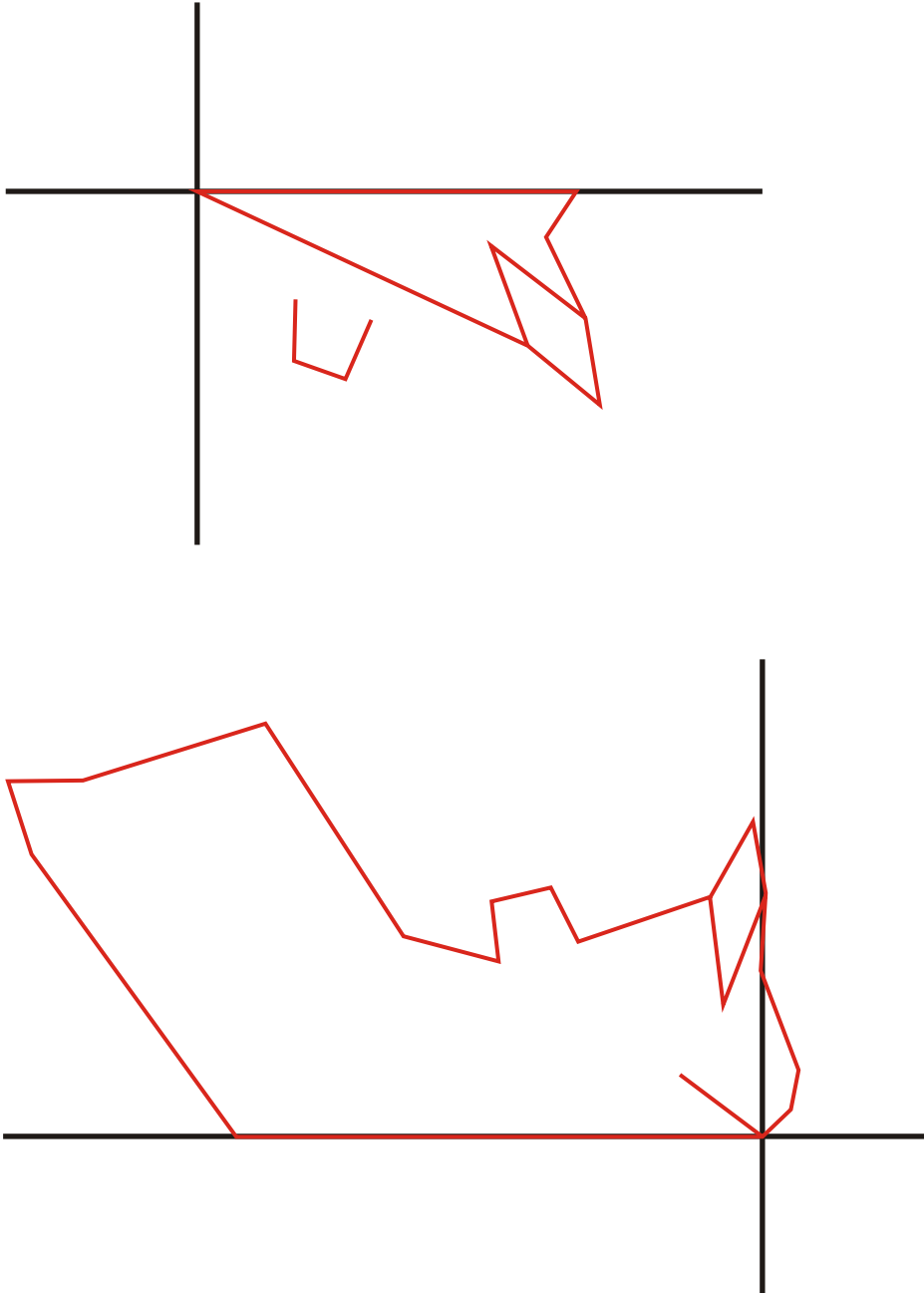
Guatemalan Indian Female

Age: 14.56 - 15.55 years



Guatemalan Indian Female

Age: 15.56 - 16.55 years



Guatemalan Indian Female

Age: 16.56 - 17.55 years

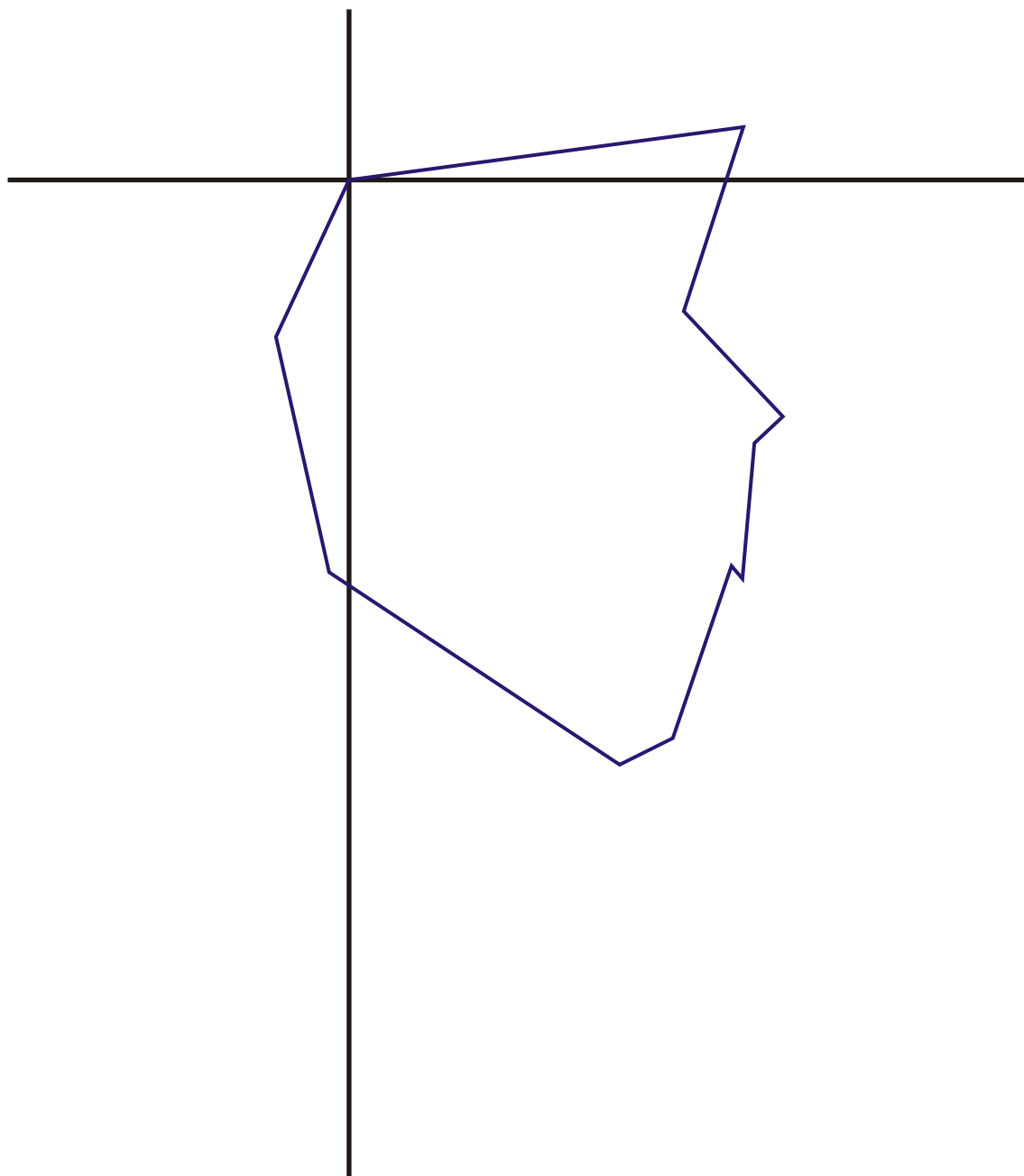




11. DIAGRAMAS DEL PERFIL CEFALOMETRICO CEPHALOMETRIC PROFILOGRAMS

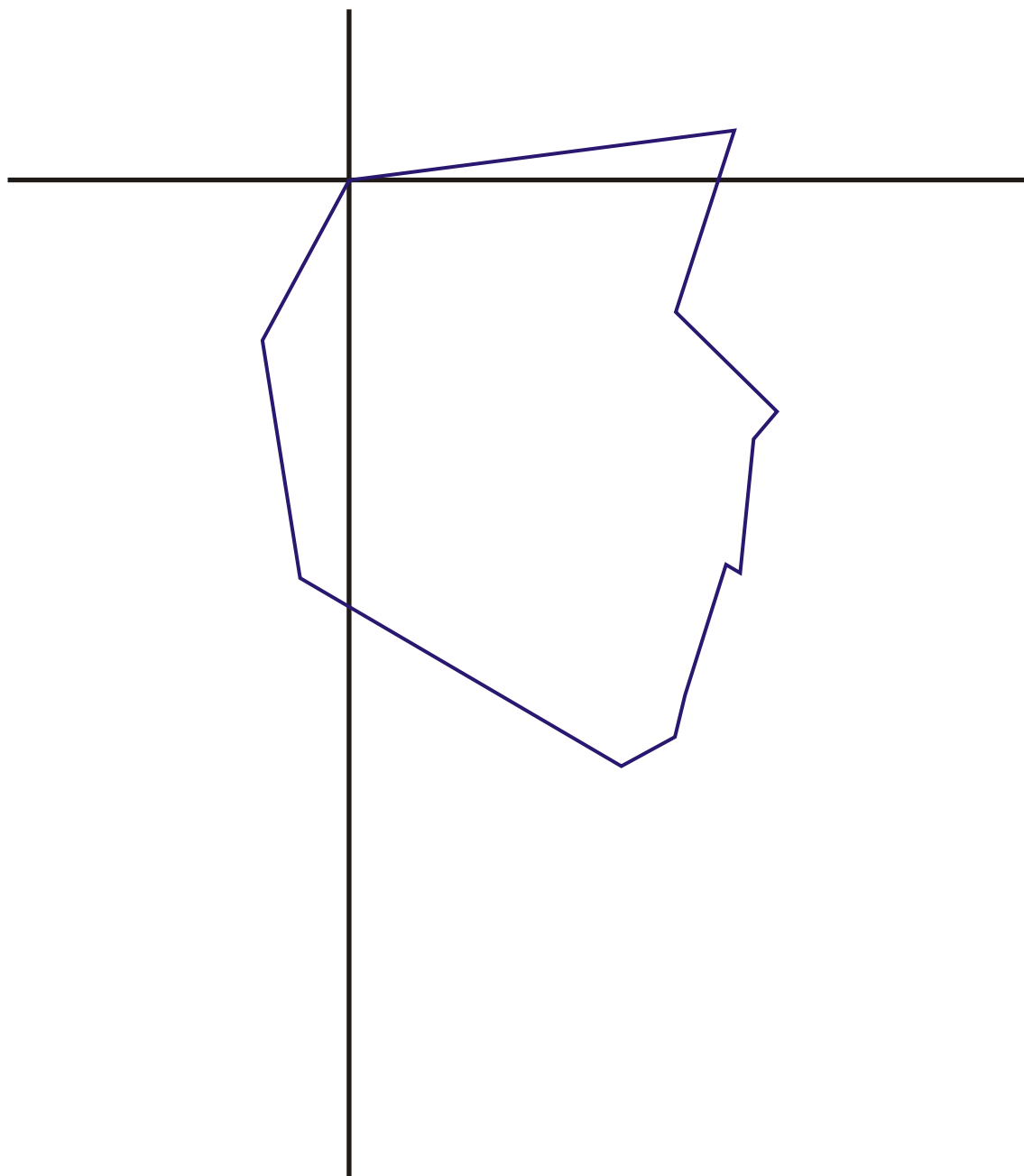
Guatemalan Indian Male

Age: 4.56 - 5.55 years



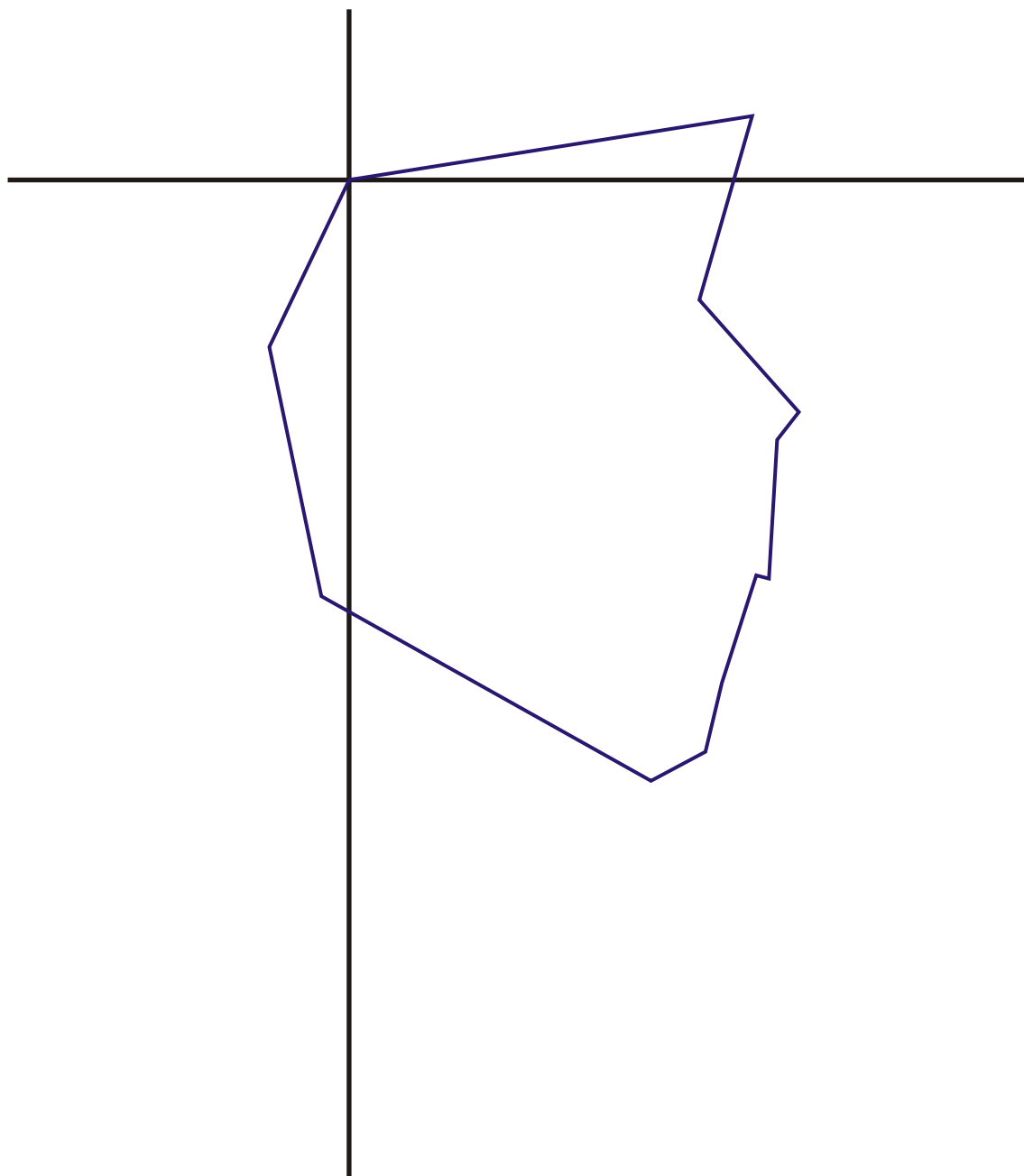
Guatemalan Indian Male

Age: 5.56 - 6.55 years



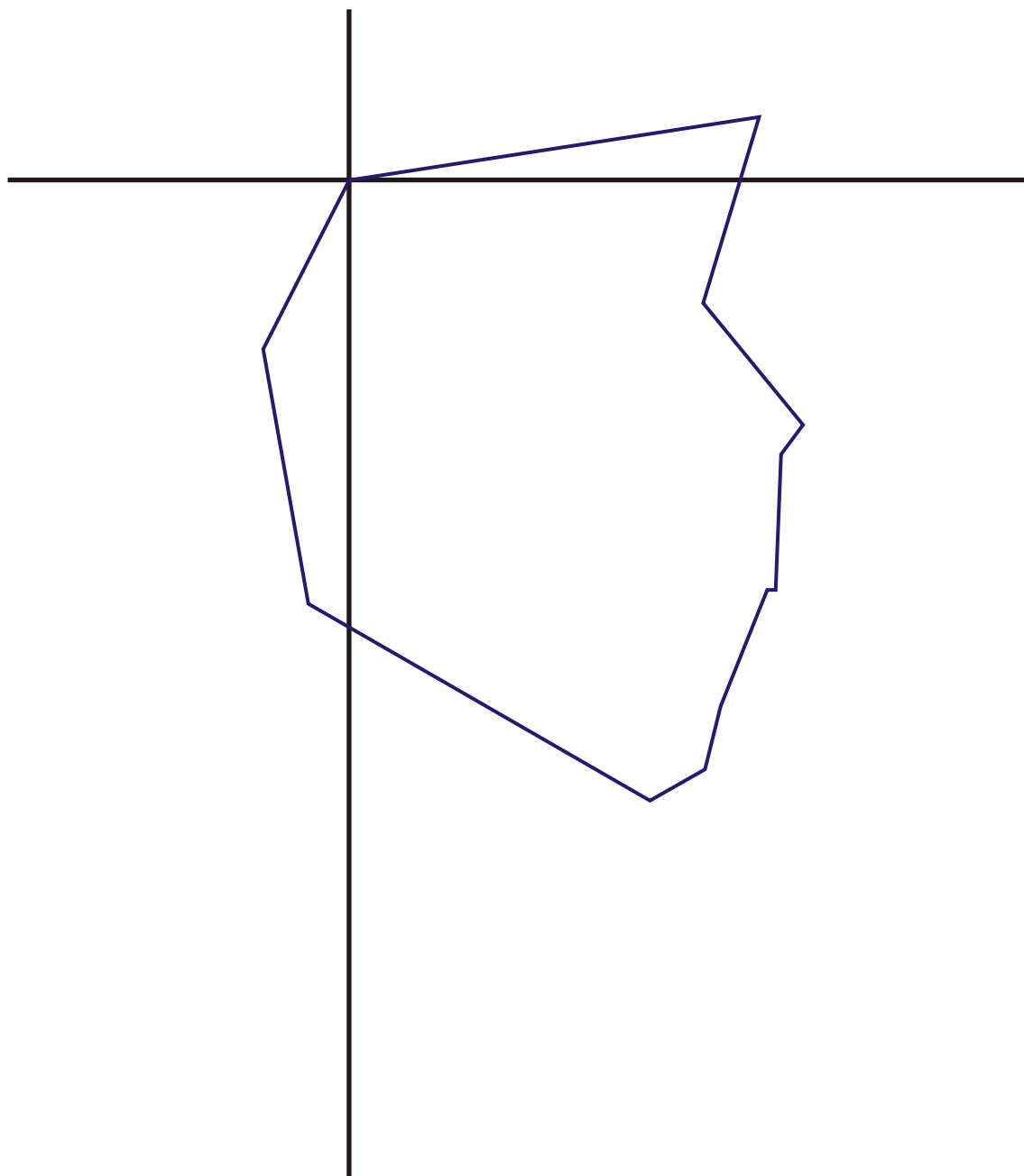
Guatemalan Indian Male

Age: 6.56 - 7.55 years



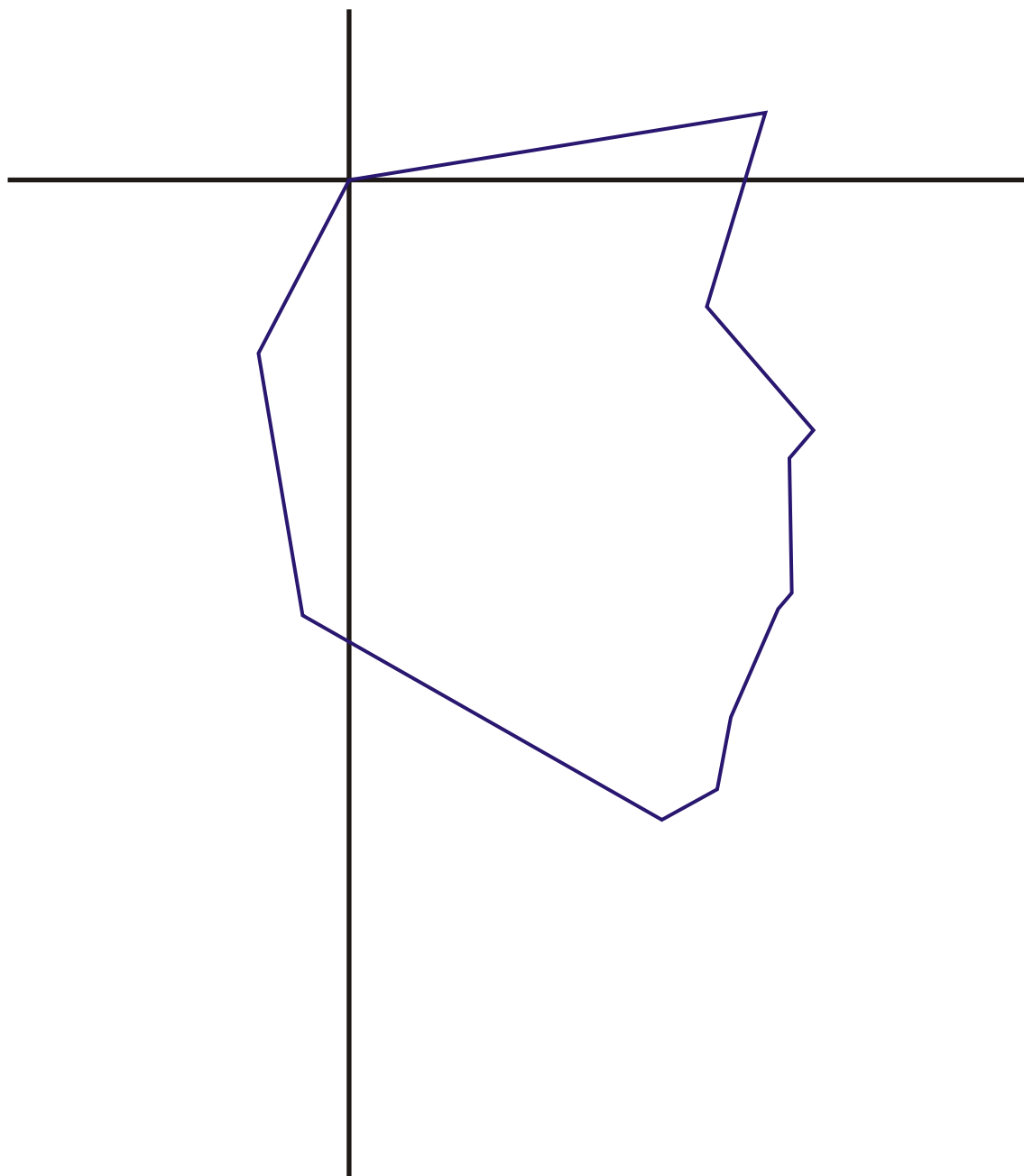
Guatemalan Indian Male

Age: 7.56 - 8.55 years



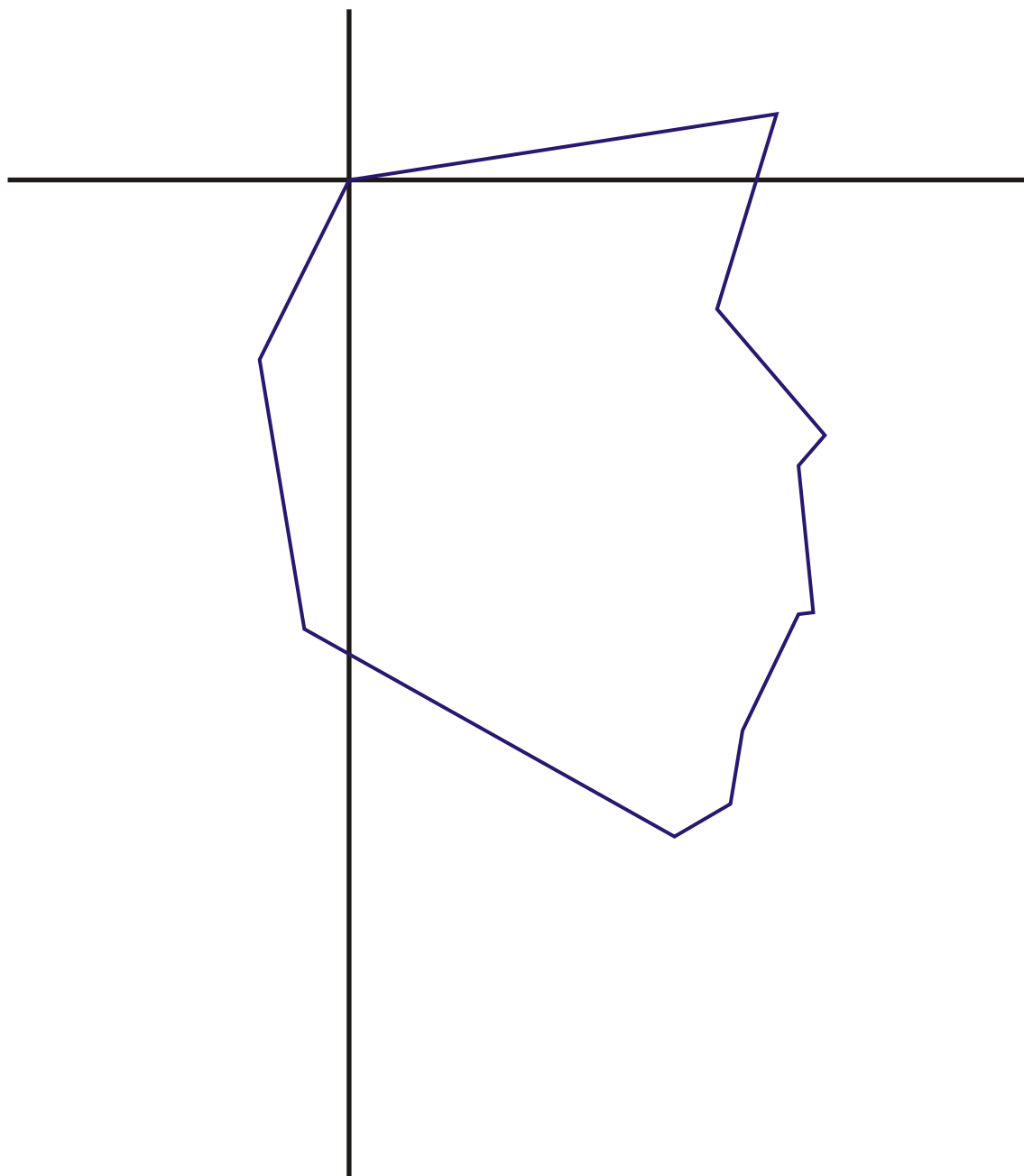
Guatemalan Indian Male

Age: 8.56 - 9.55 years



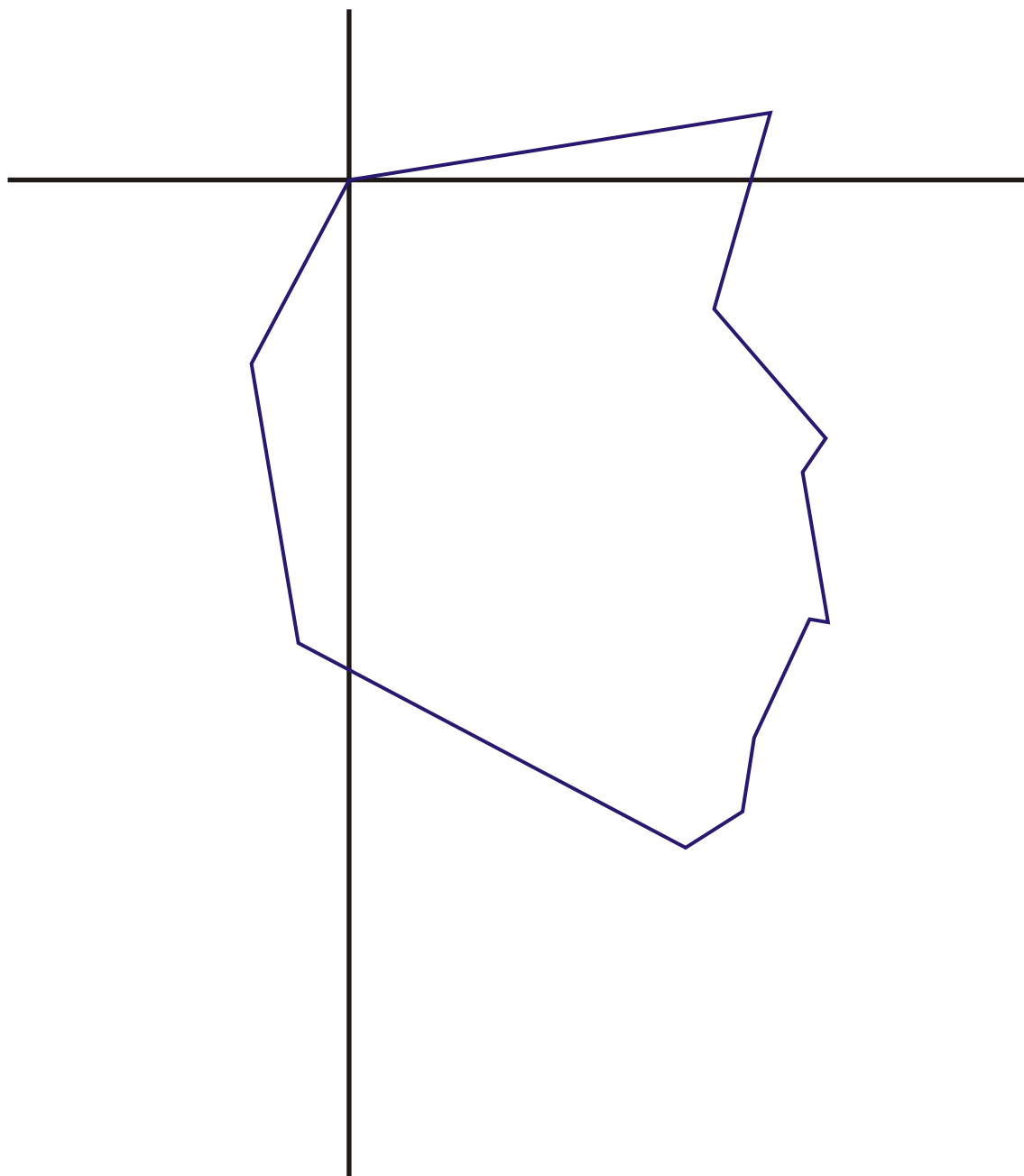
Guatemalan Indian Male

Age: 9.56 - 10.55 years



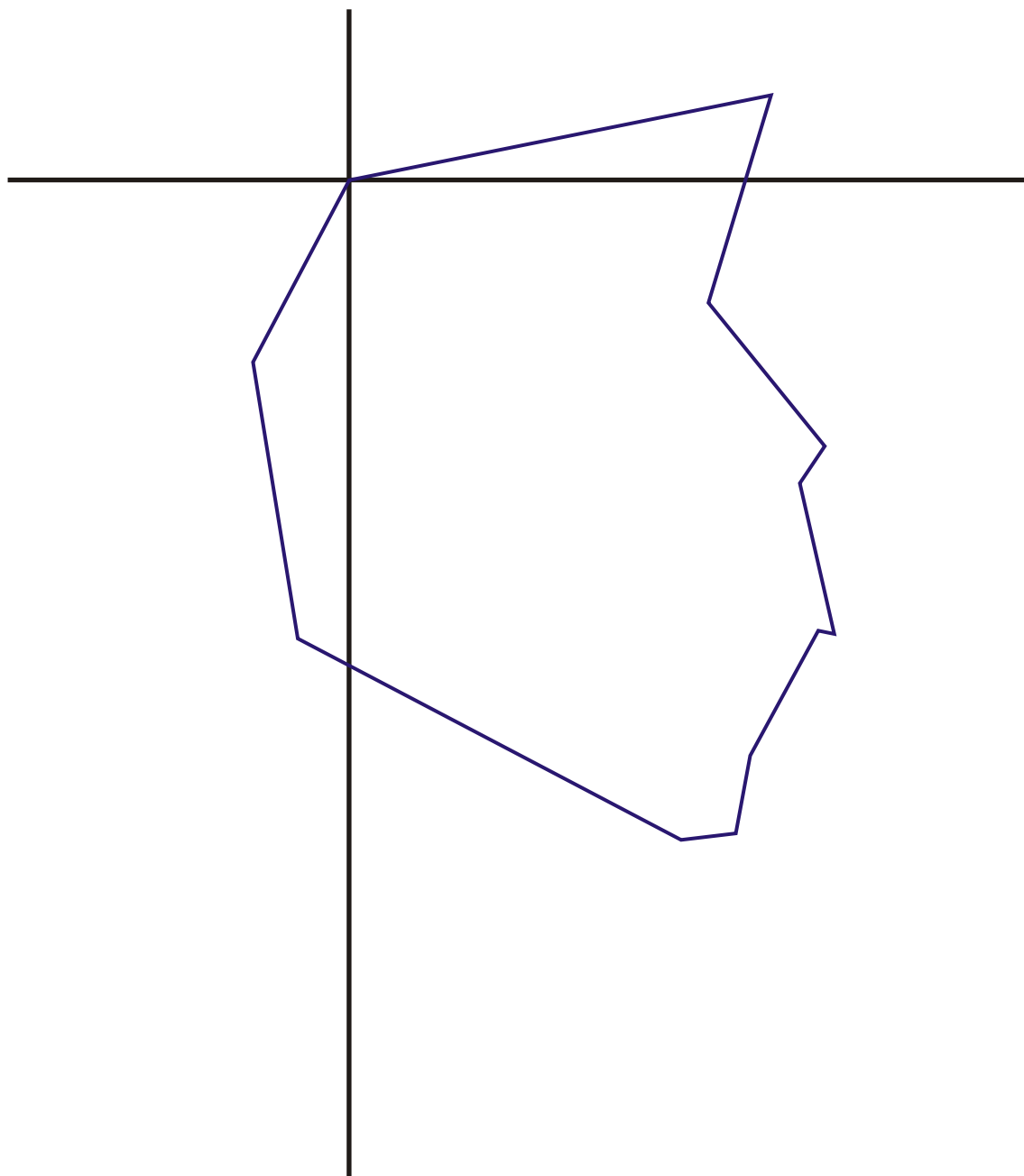
Guatemalan Indian Male

Age: 10.56 - 11.55 years



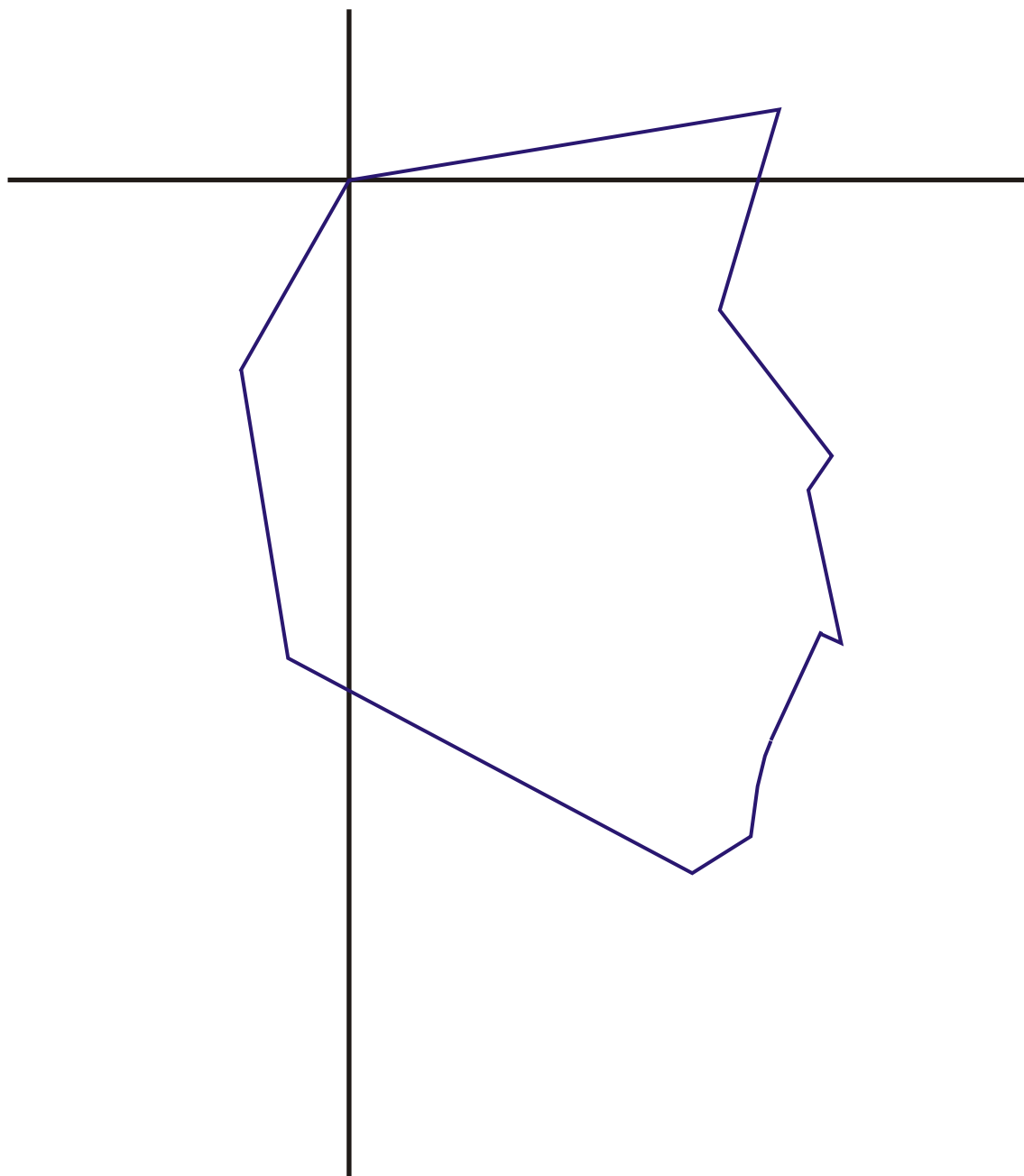
Guatemalan Indian Male

Age: 11.56 - 12.55 years



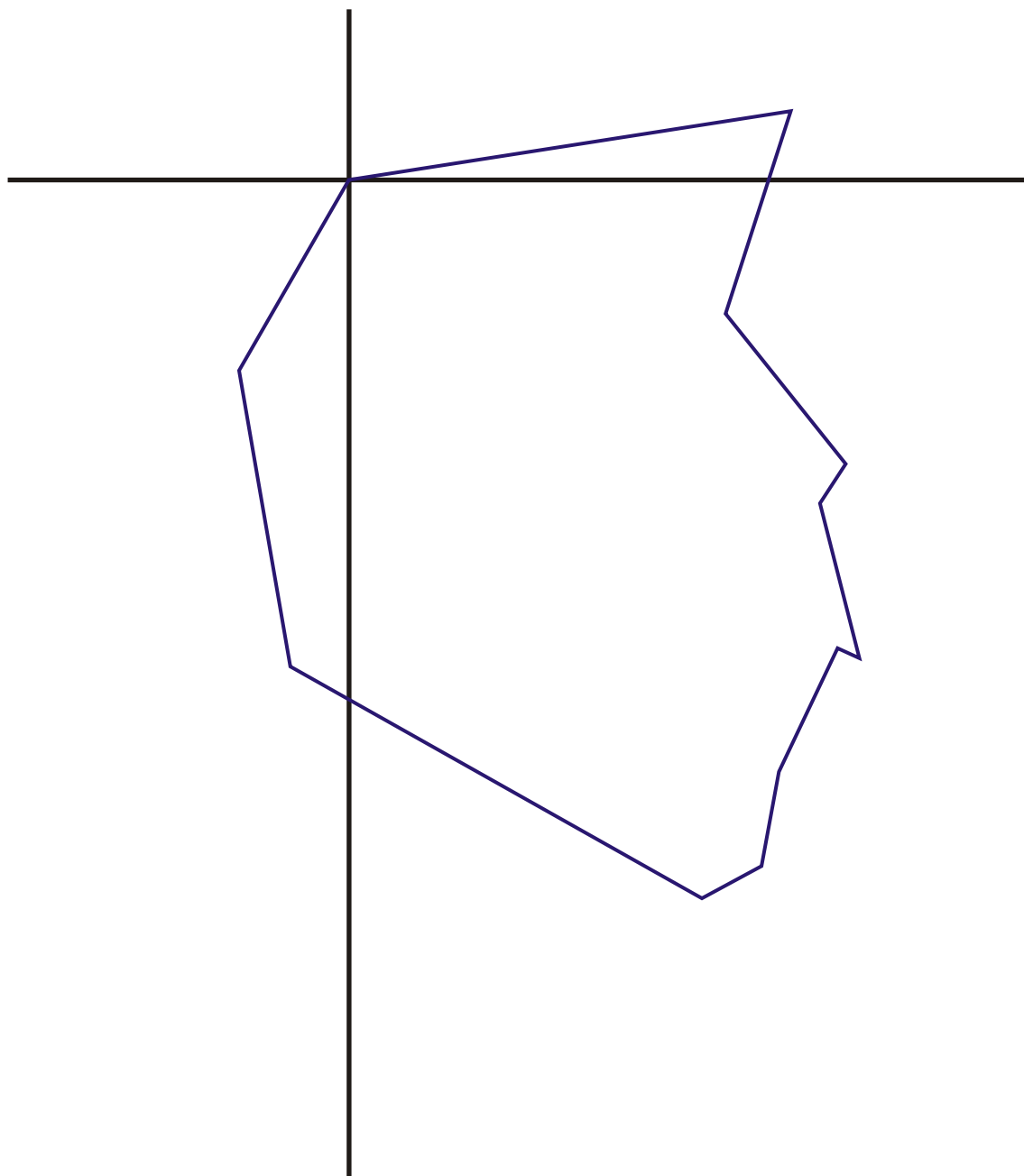
Guatemalan Indian Male

Age: 12.56 - 13.55 years



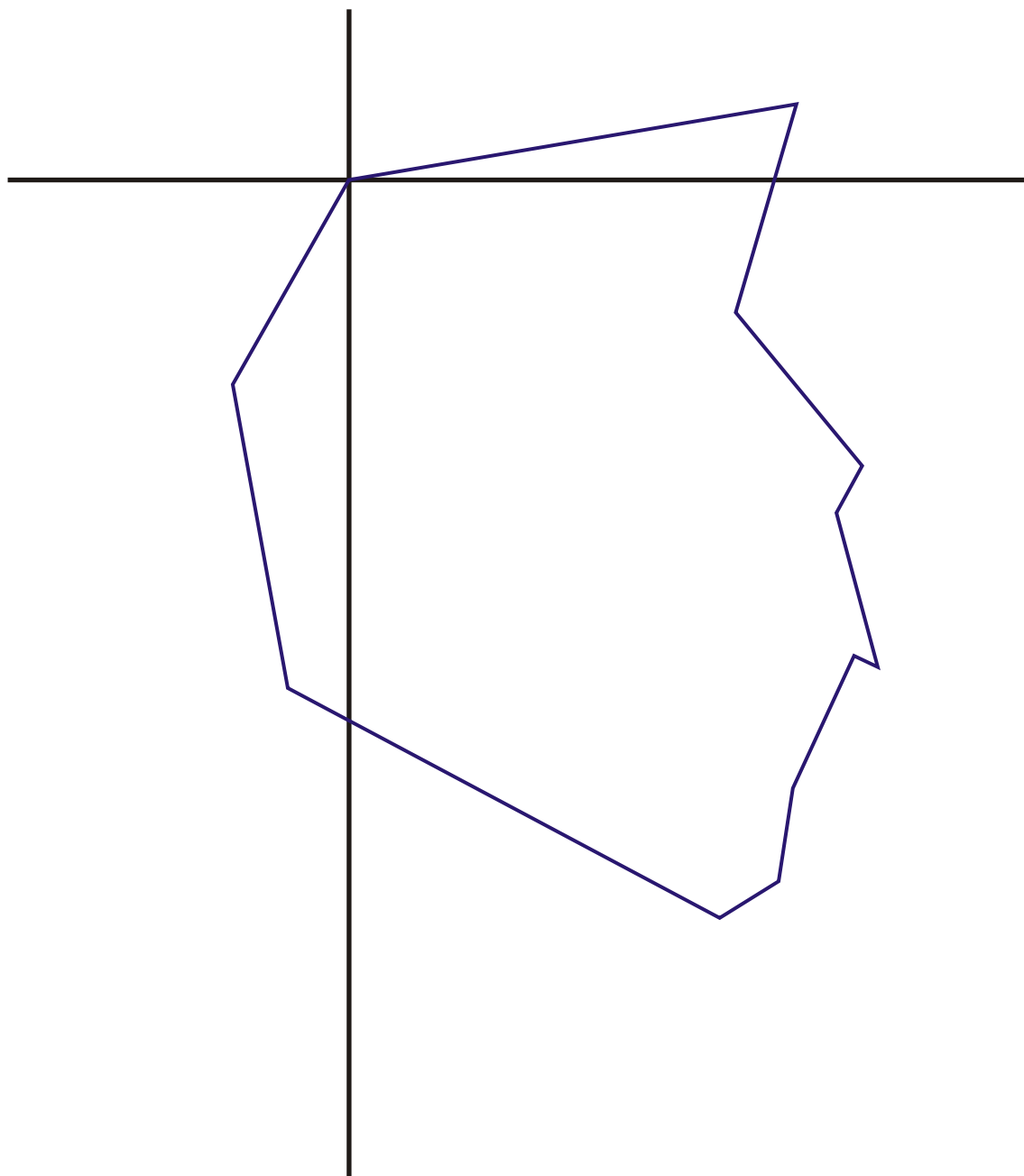
Guatemalan Indian Male

Age: 13.56 - 14.55 years



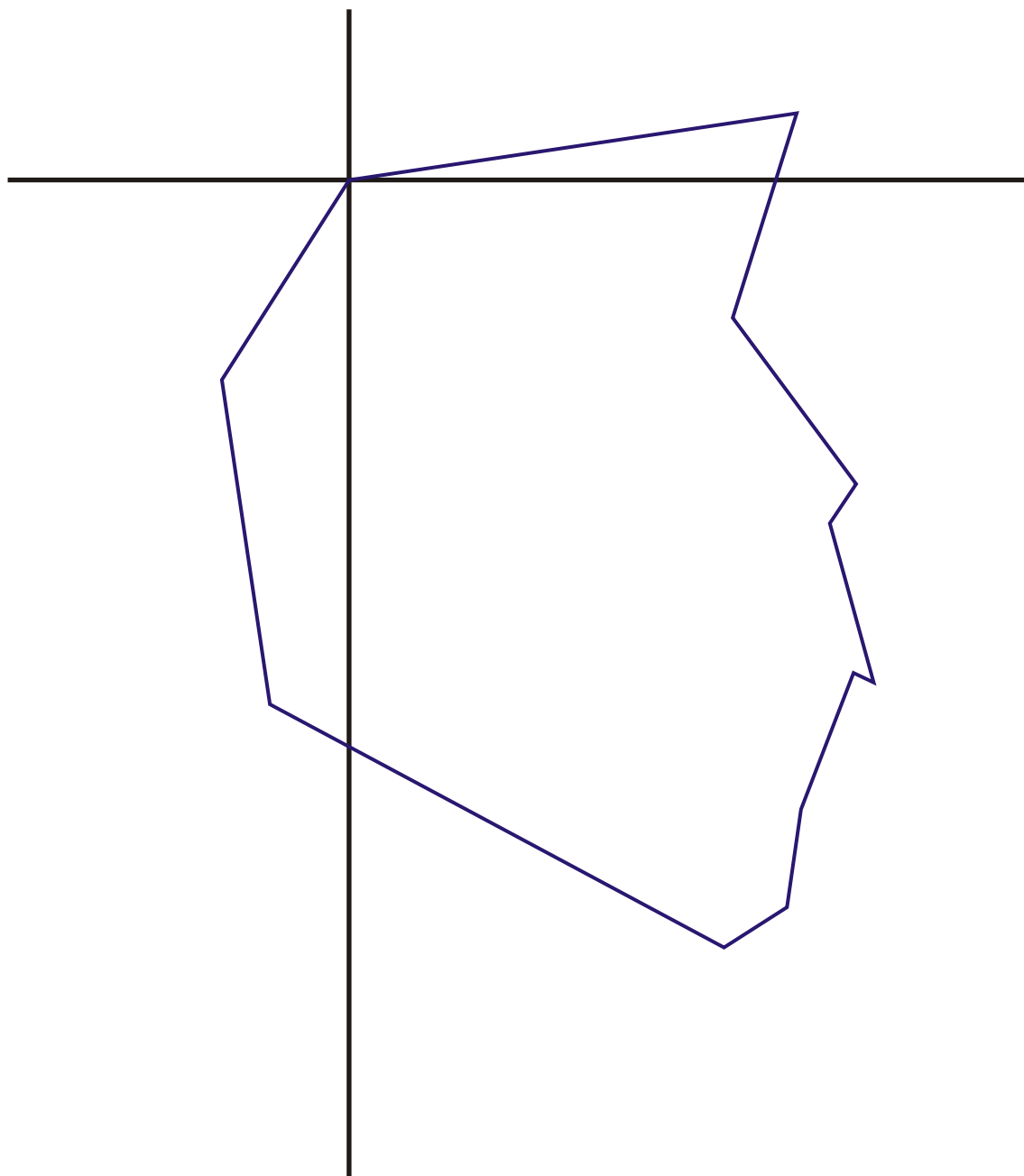
Guatemalan Indian Male

Age: 14.56 - 15.55 years



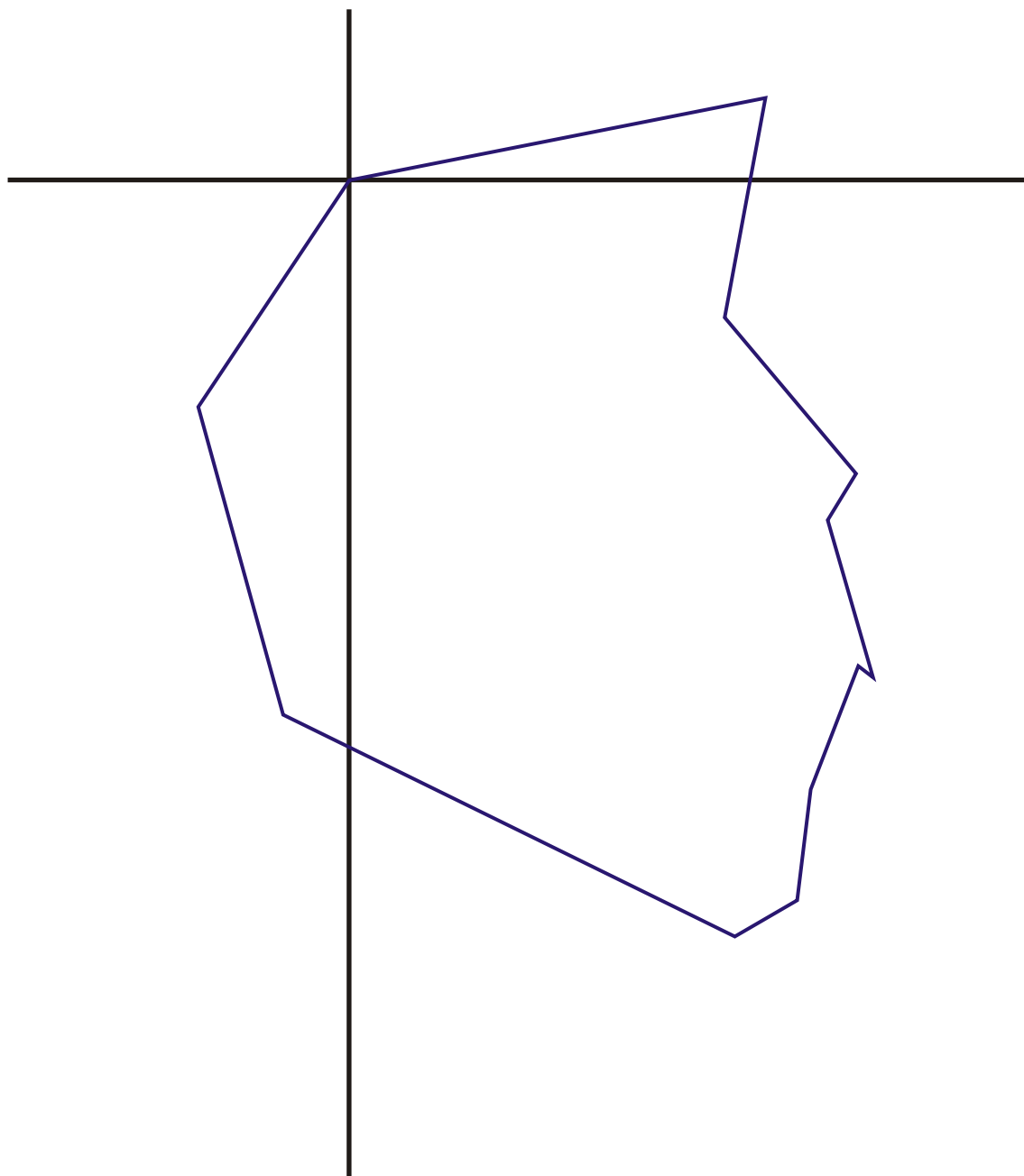
Guatemalan Indian Male

Age: 15.56 - 16.55 years



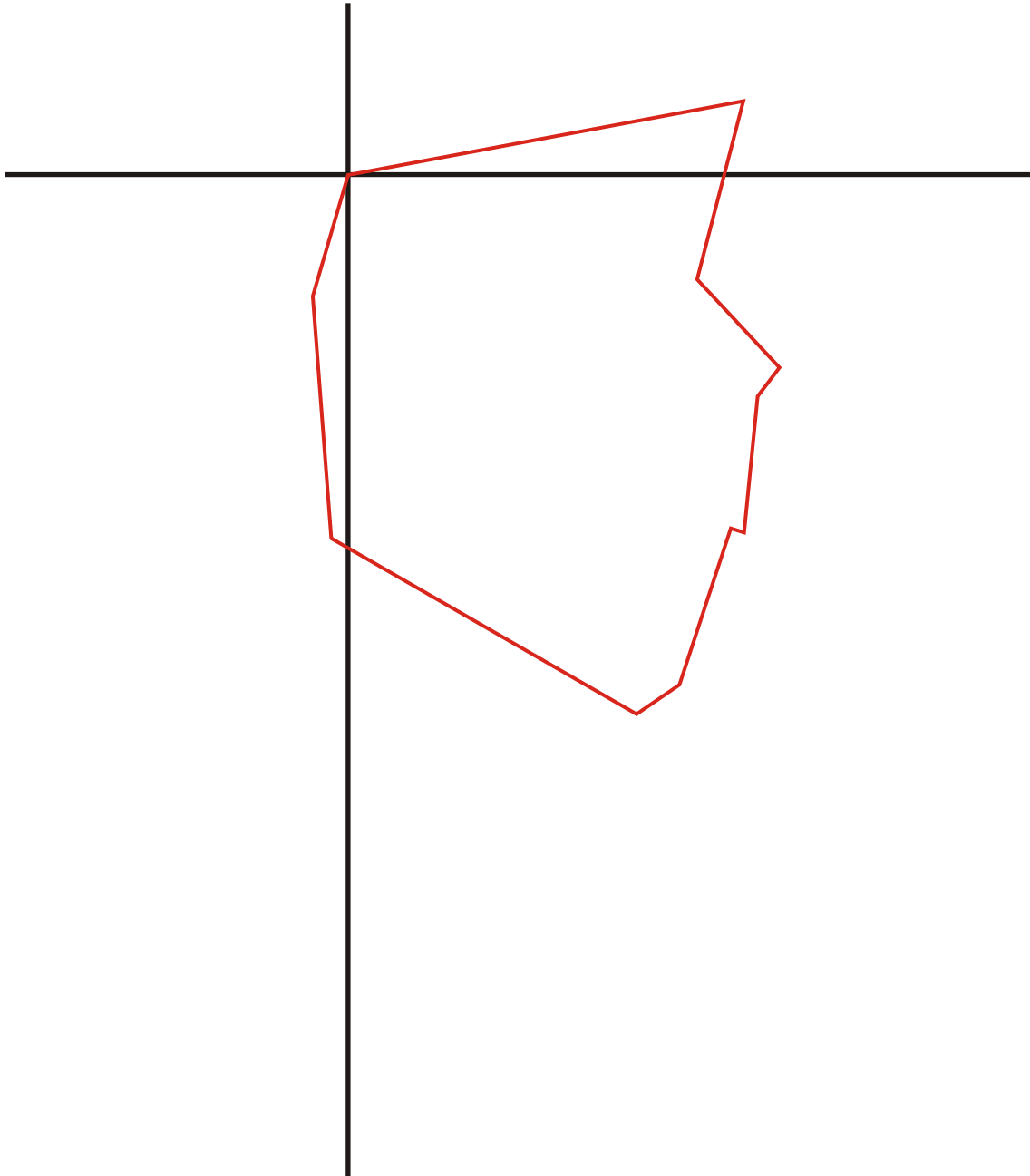
Guatemalan Indian Male

Age: 16.56 - 17.55 years



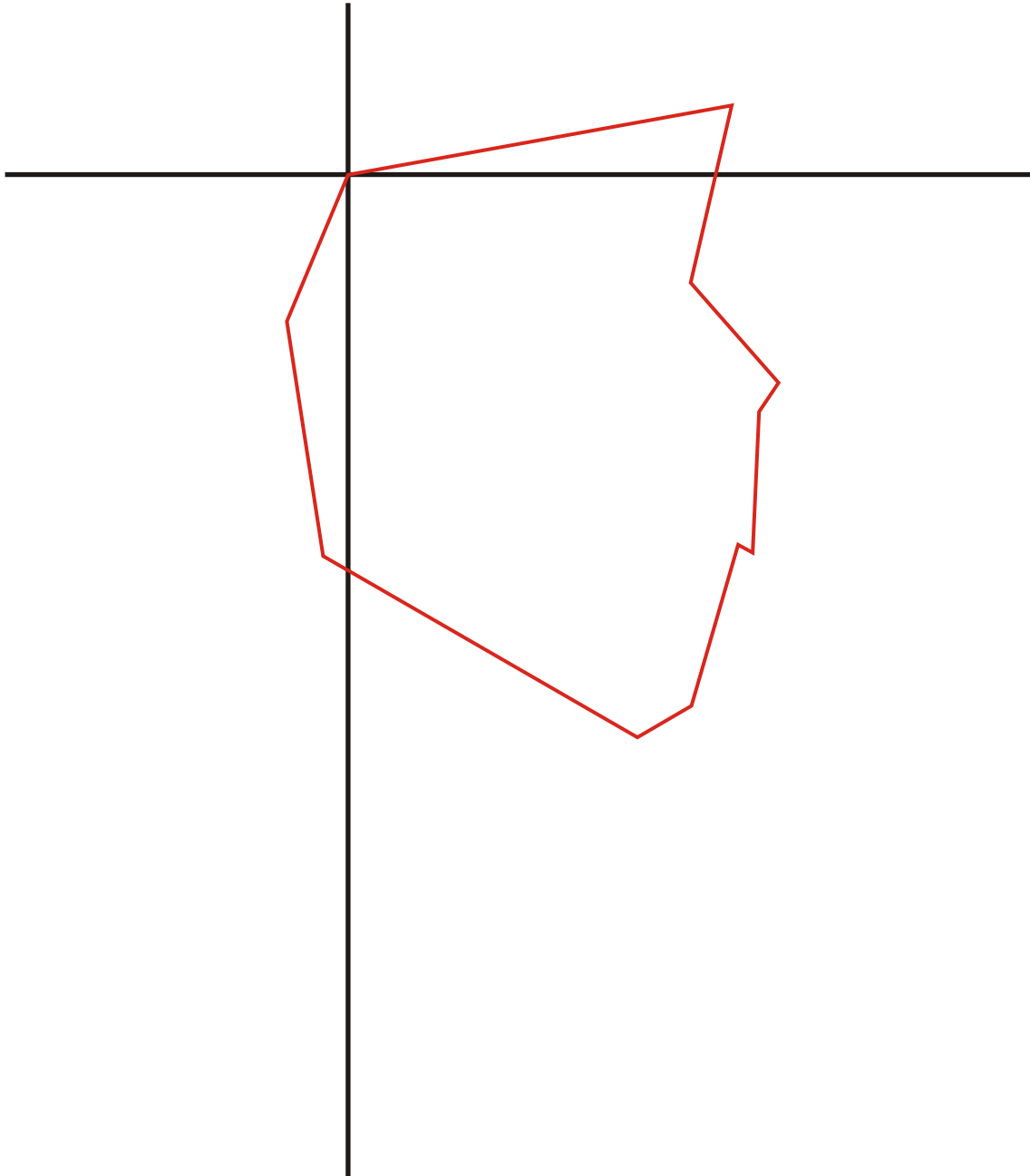
Guatemalan Indian Female

Age: 3.56 - 4.55 years



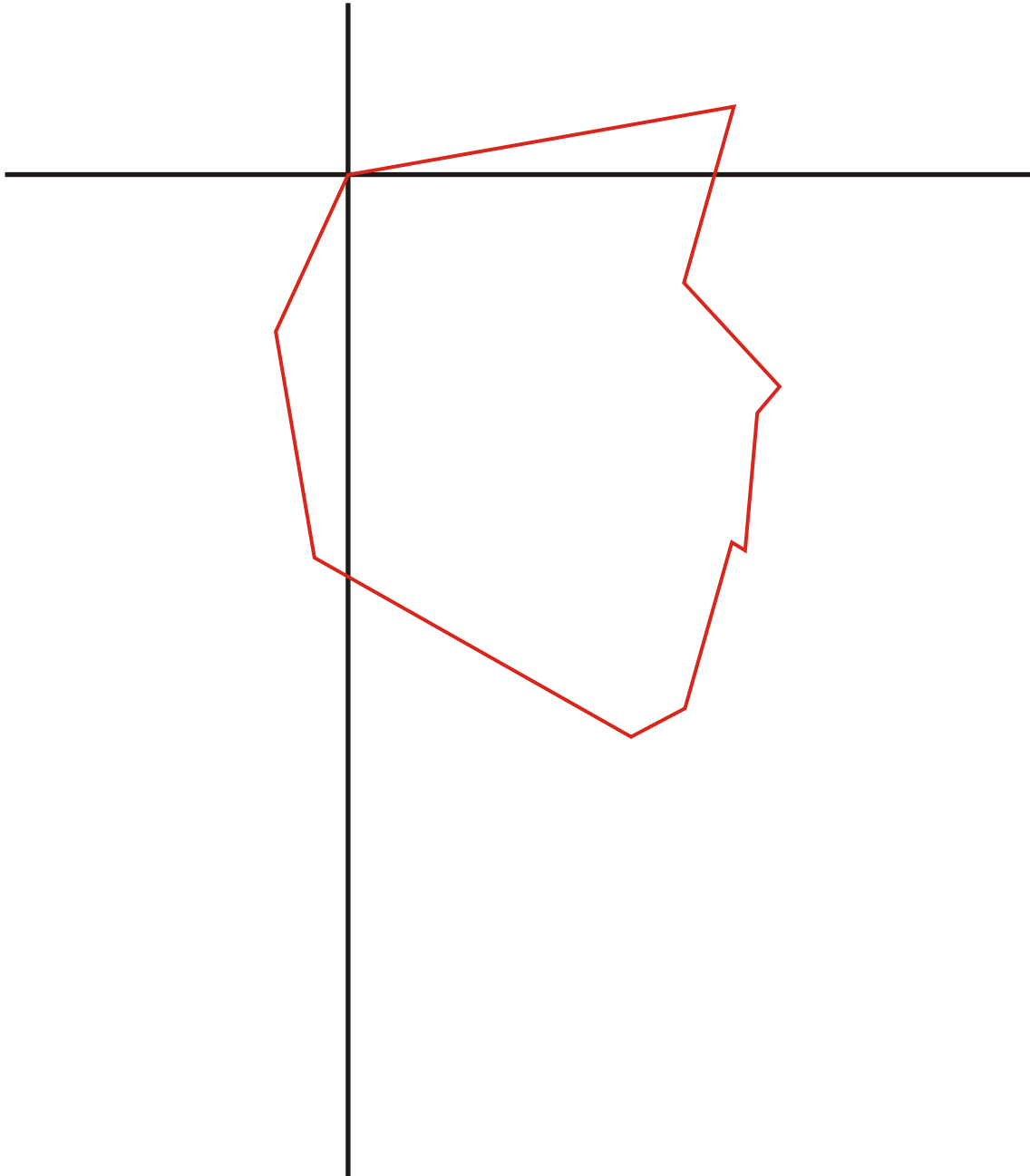
Guatemalan Indian Female

Age: 4.56 - 5.55 years



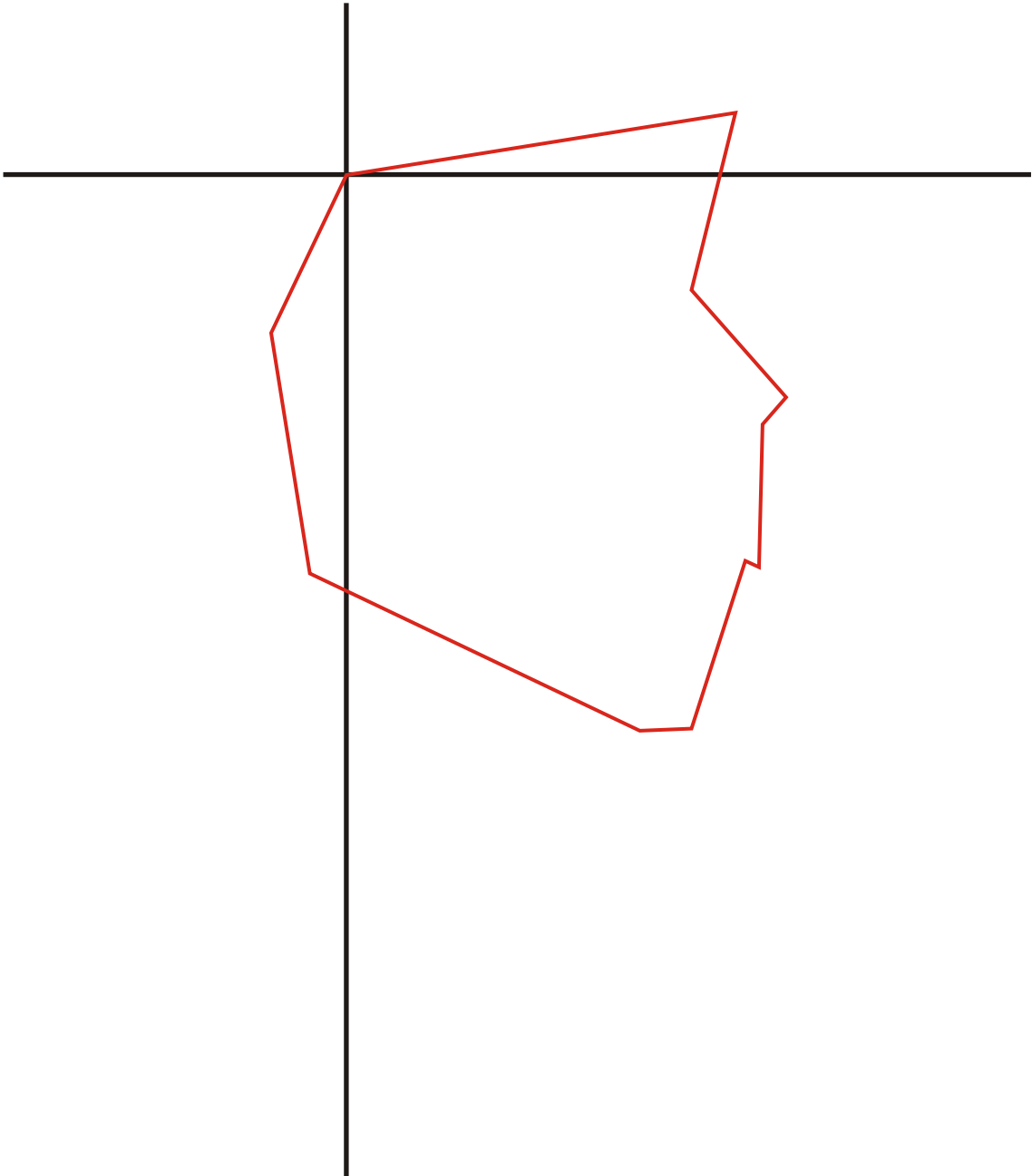
Guatemalan Indian Female

Age: 5.56 - 6.55 years



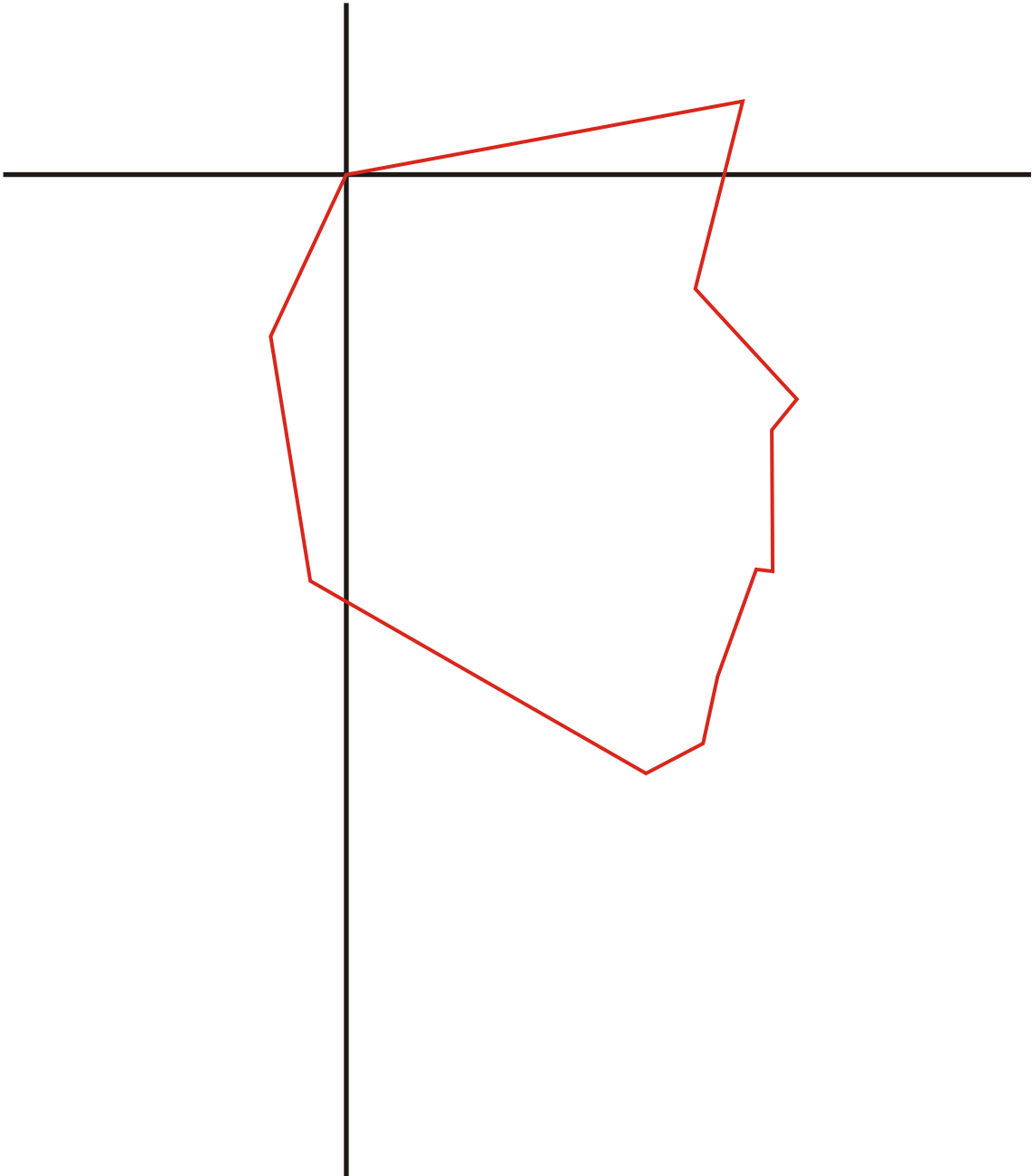
Guatemalan Indian Female

Age: 6.56 - 7.55 years



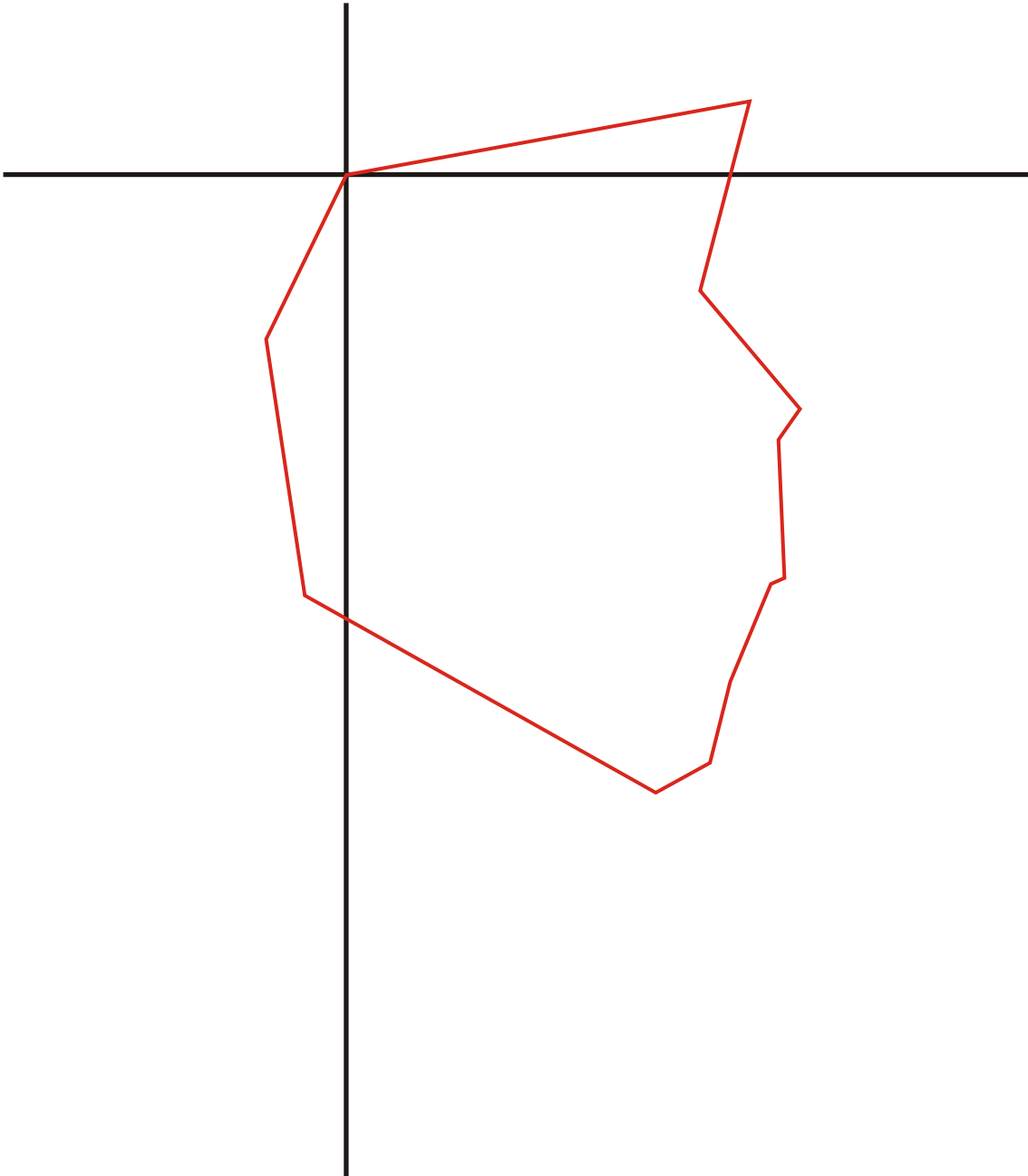
Guatemalan Indian Female

Age: 7.56 - 8.55 years



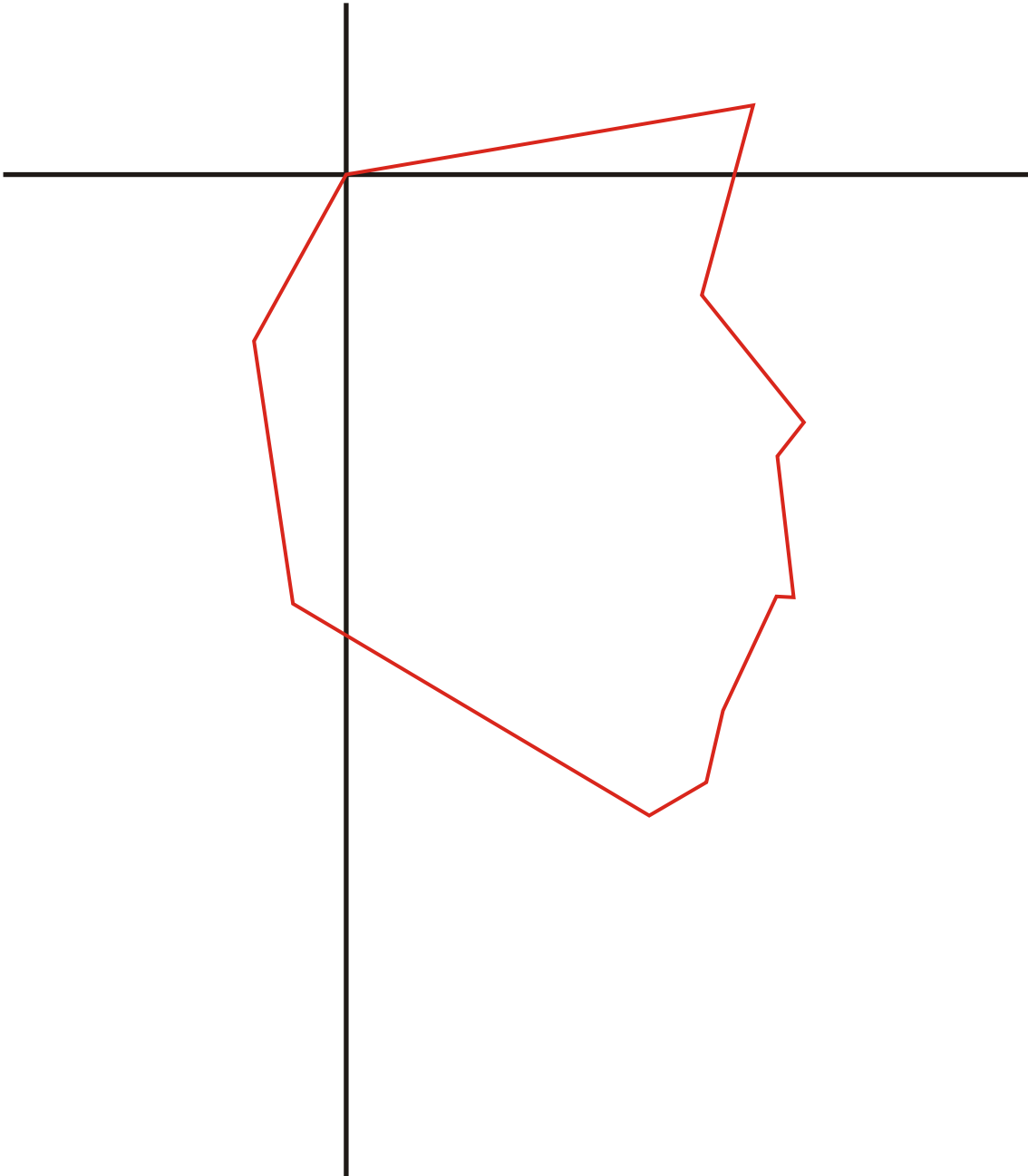
Guatemalan Indian Female

Age: 8.56 - 9.55 years



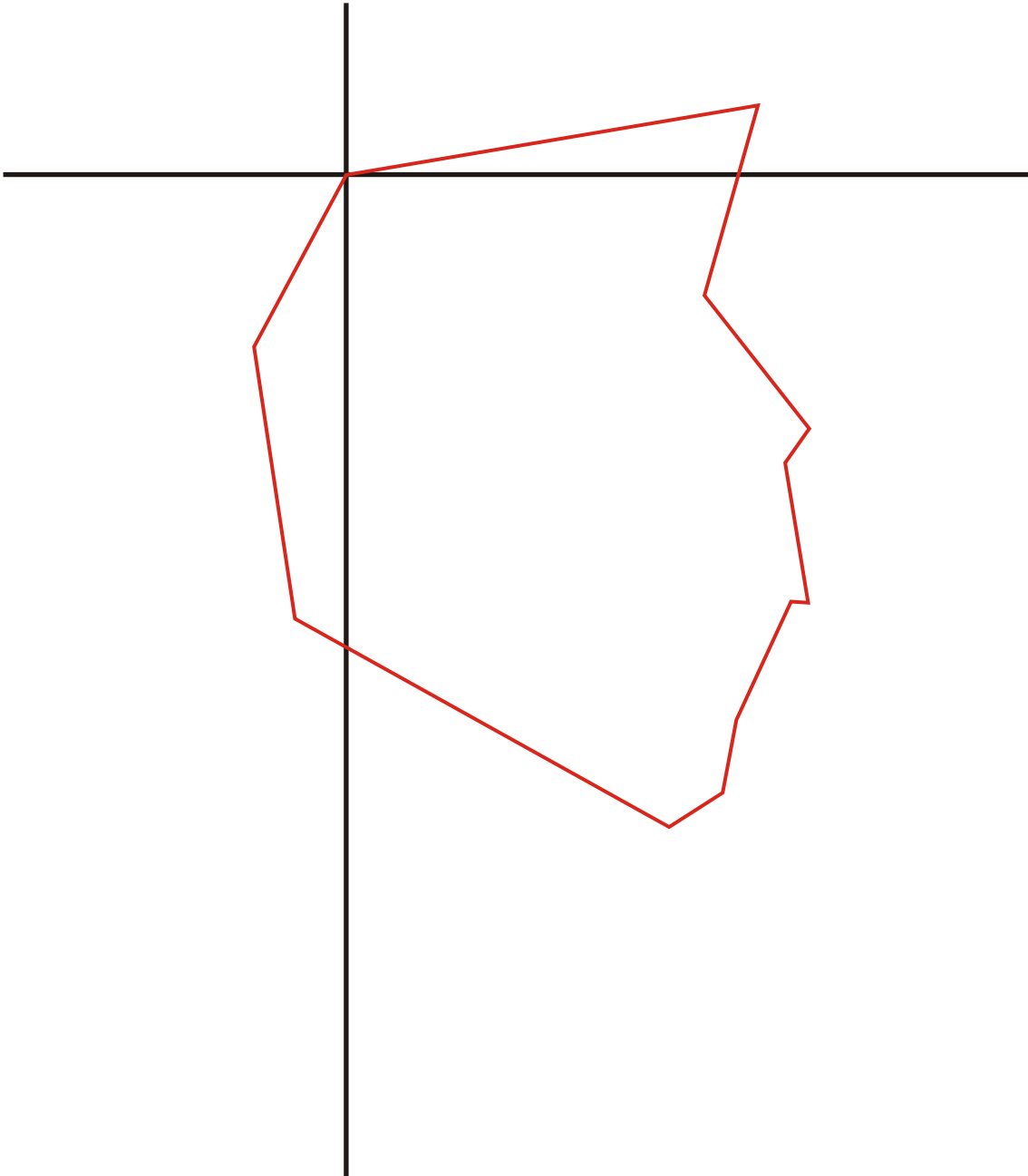
Guatemalan Indian Female

Age: 9.56 - 10.55 years



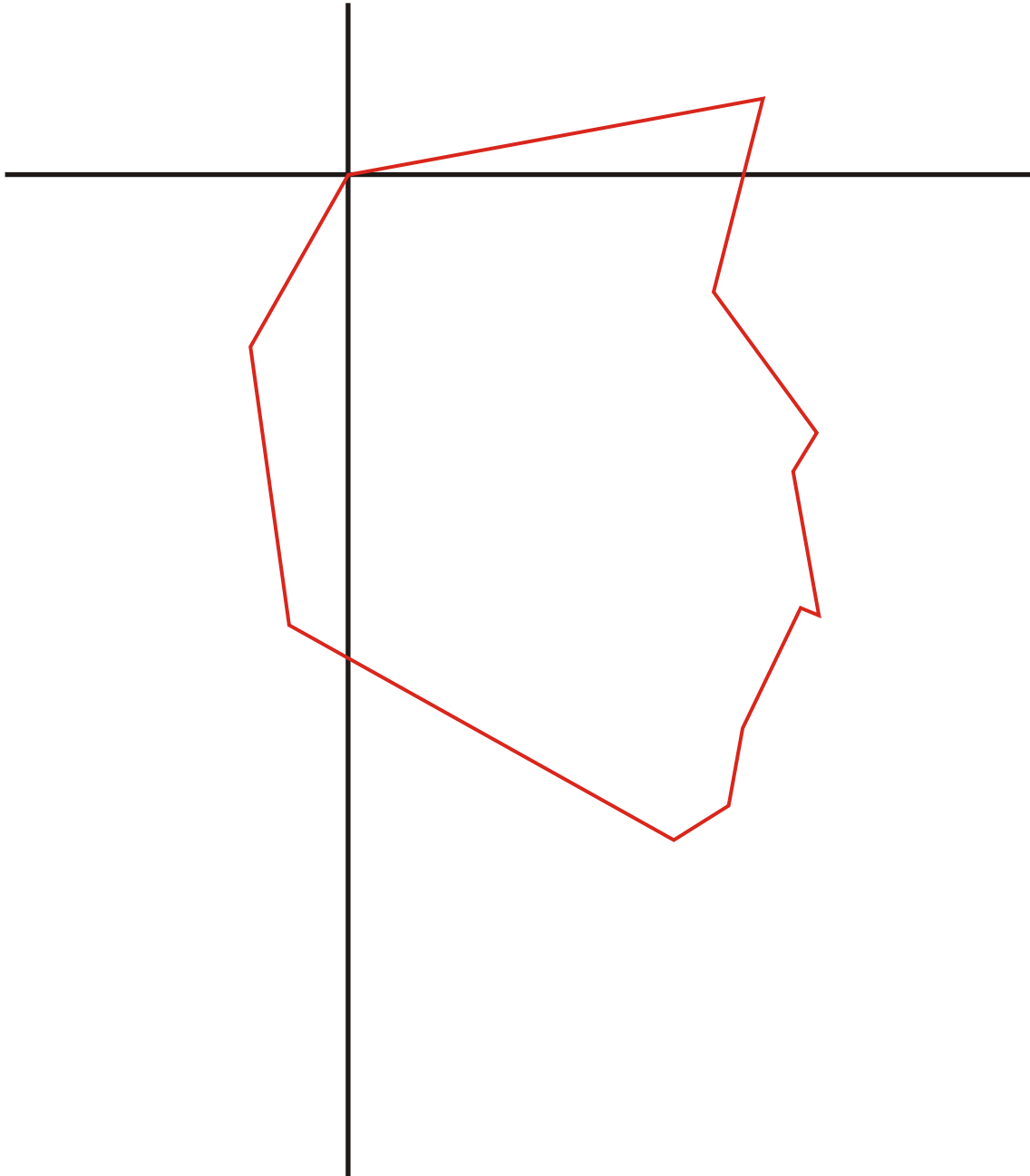
Guatemalan Indian Female

Age: 10.56 - 11.55 years



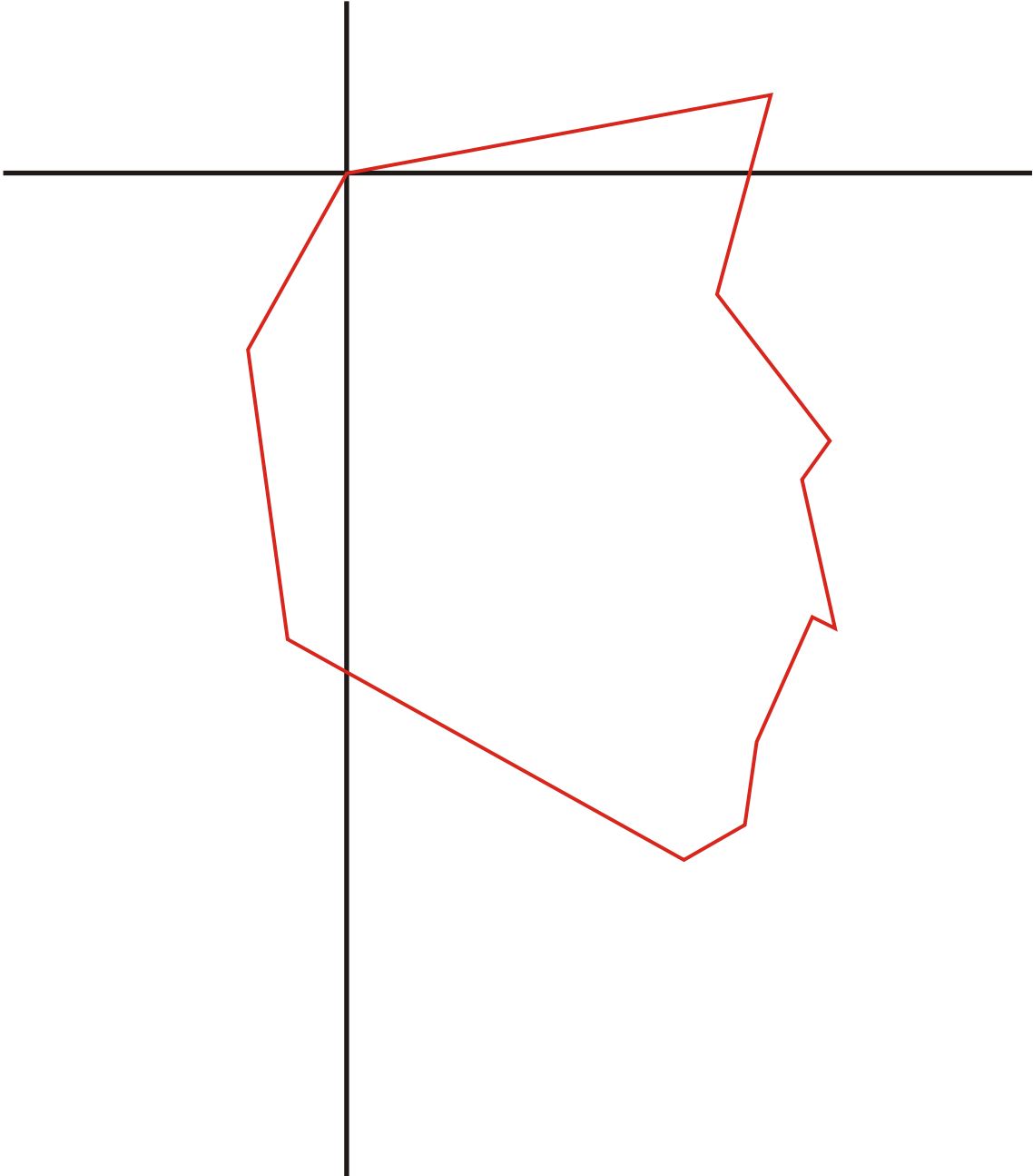
Guatemalan Indian Female

Age: 11.56 - 12.55 years



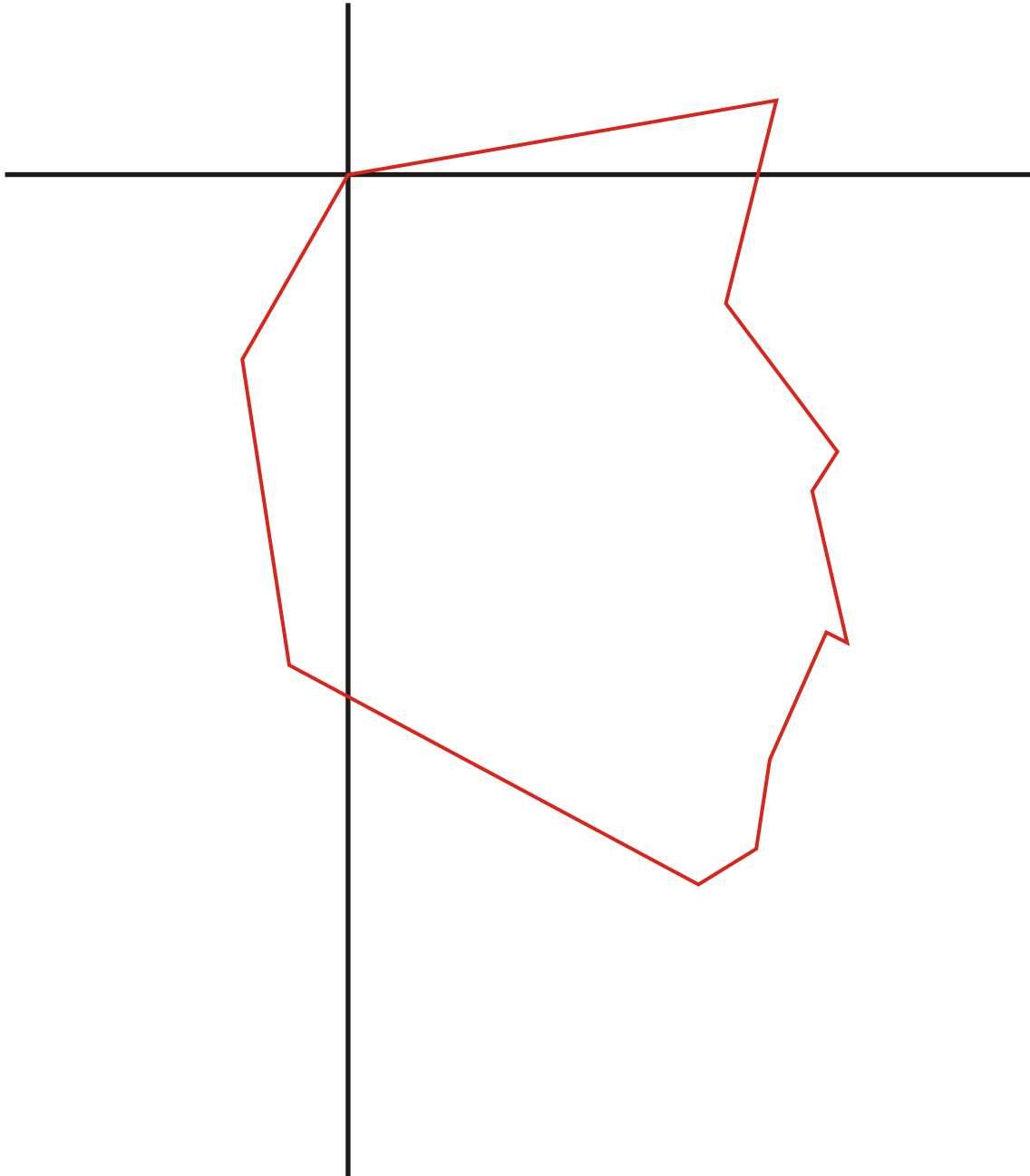
Guatemalan Indian Female

Age: 12.56 - 13.55 years



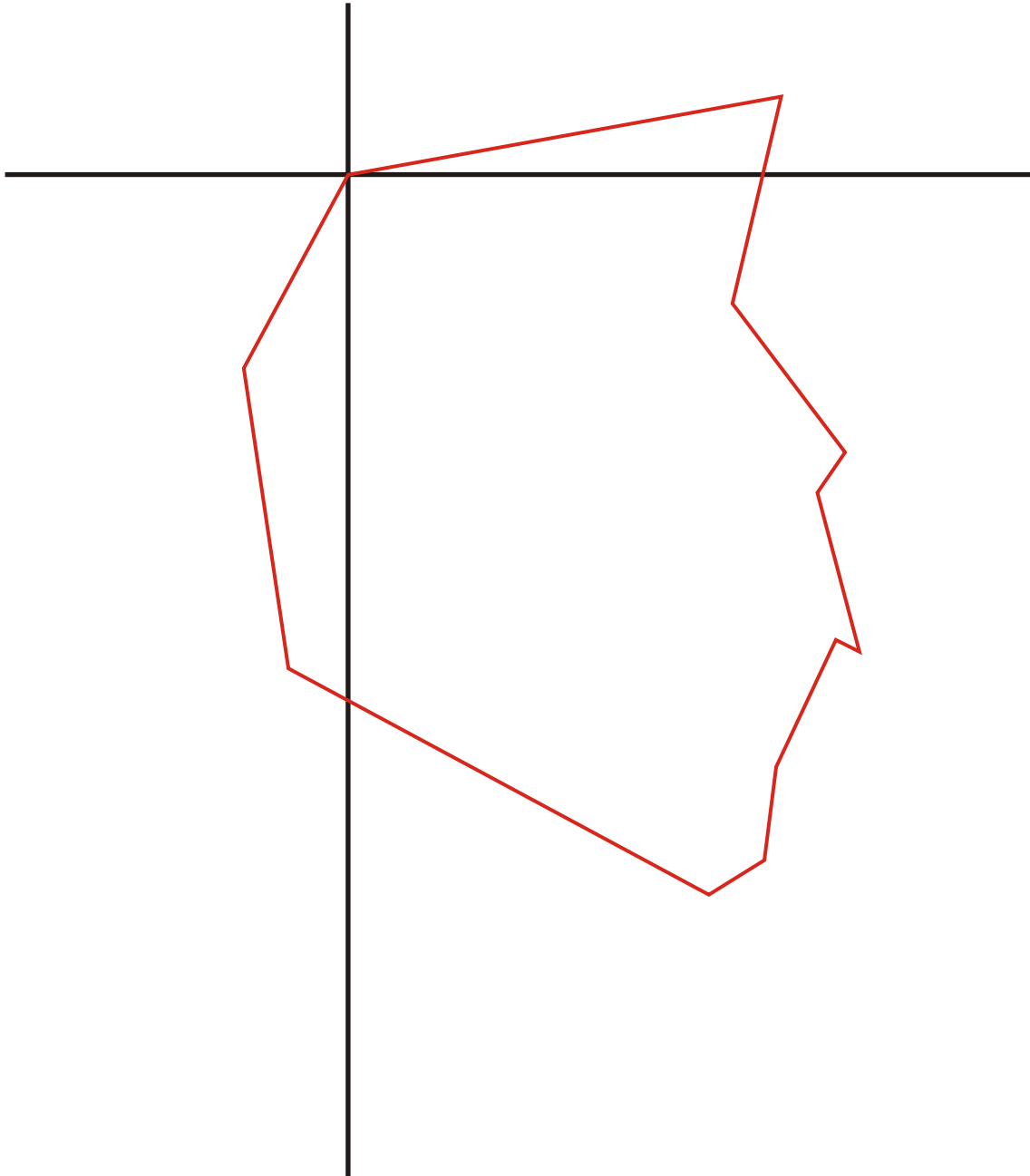
Guatemalan Indian Female

Age: 13.56 - 14.55 years



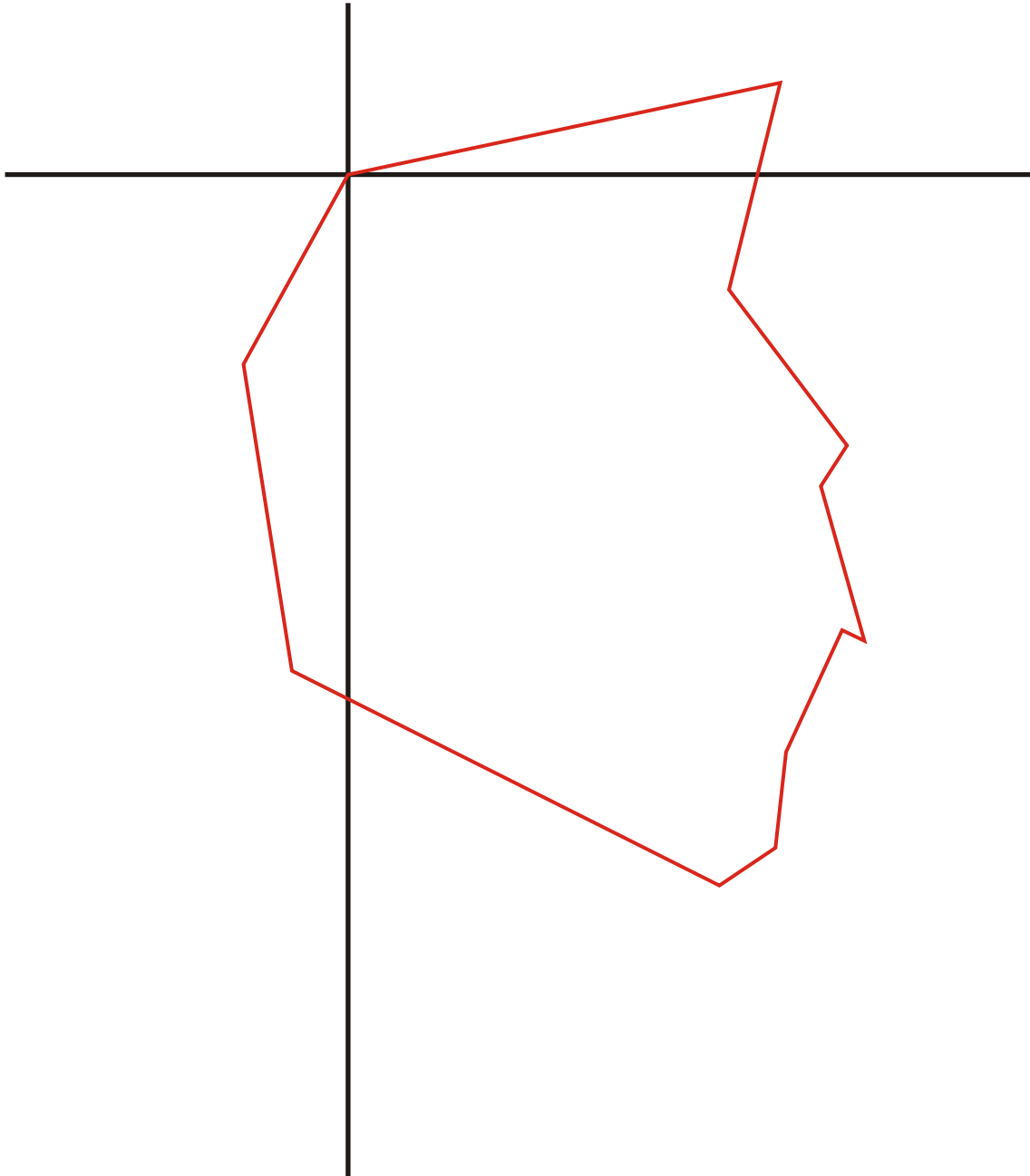
Guatemalan Indian Female

Age: 14.56 - 15.55 years



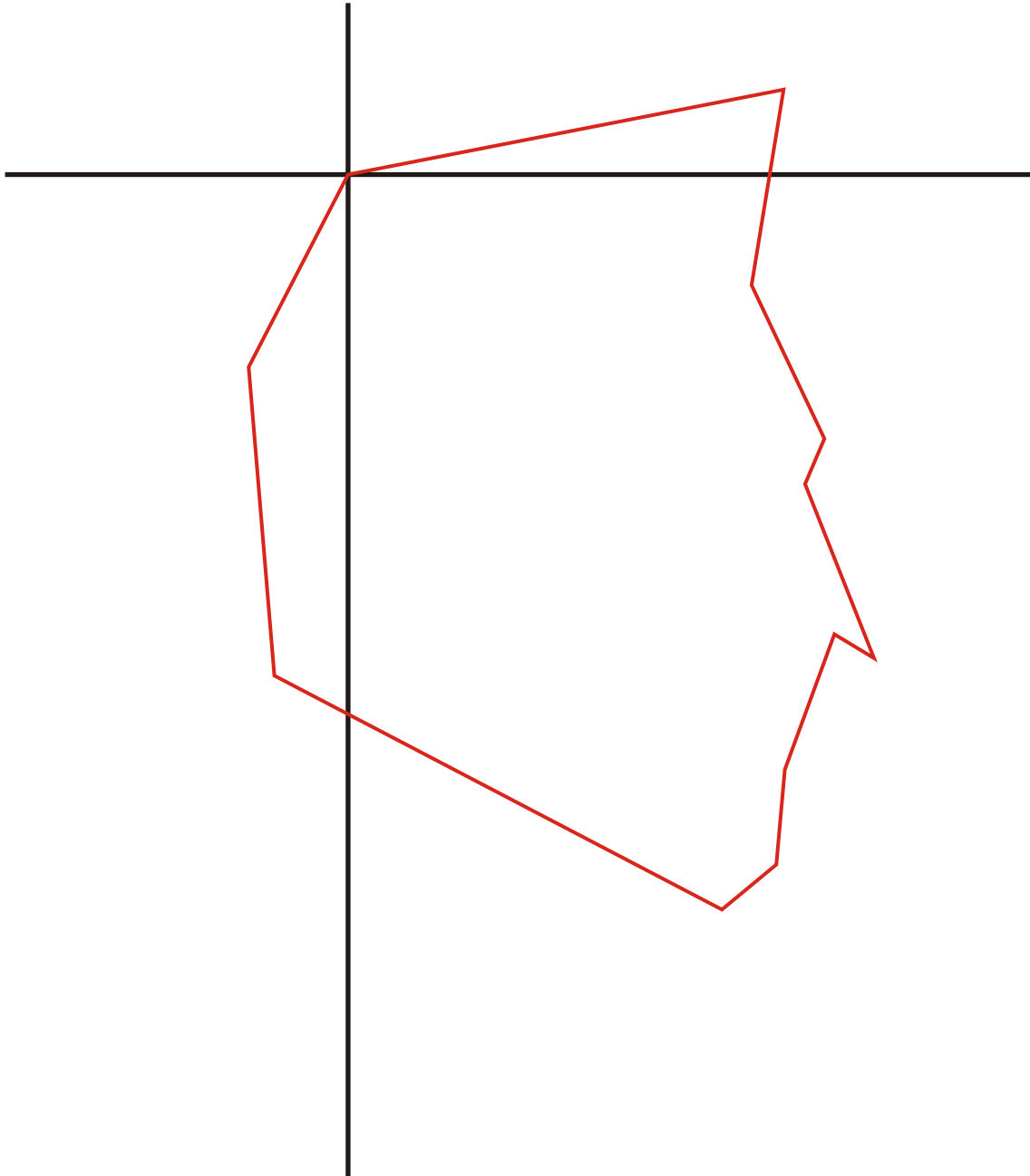
Guatemalan Indian Female

Age: 15.56 - 16.55 years

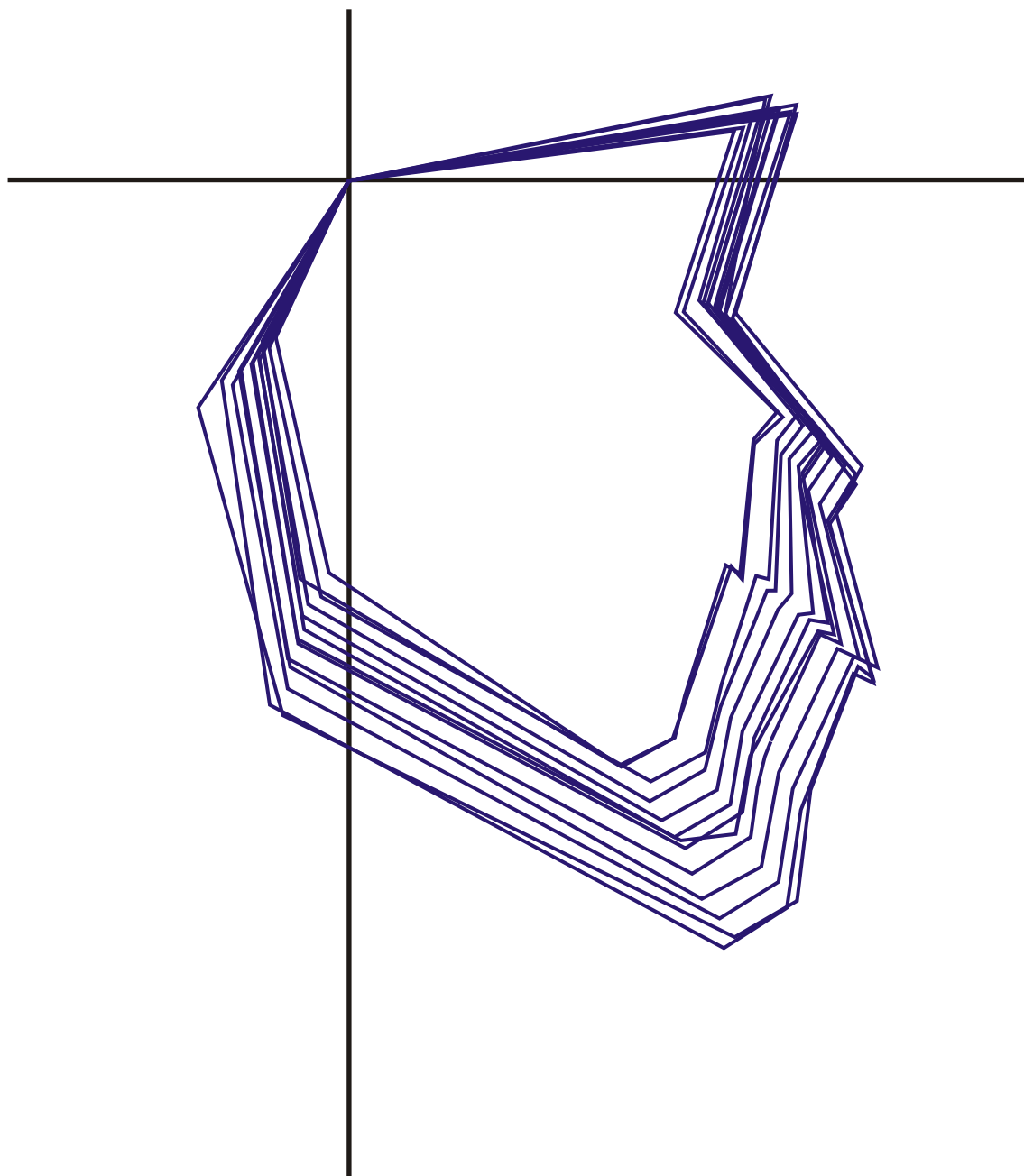


Guatemalan Indian Female

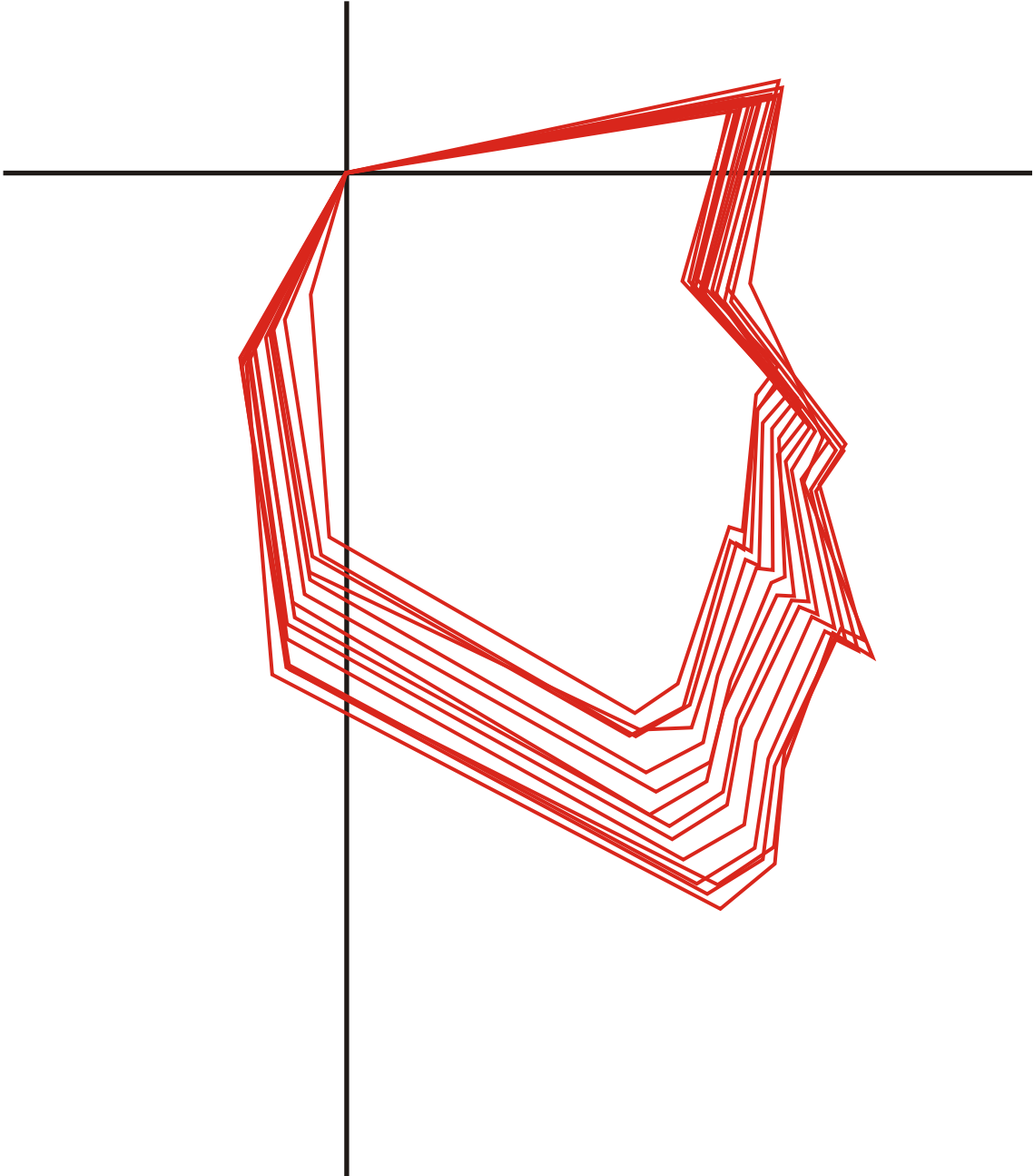
Age: 16.56 - 17.55 years



Guatemalan Indian Male



Guatemalan Indian Female



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- Gonion	94
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A Point - Nasion - B Point	4
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- Condylion	177
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Sella - Nasion - Basion	17
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