

Segmental facial morphometrics and gender differences in Gujarati Population.

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Abstract:

Background & Aim: Facial measurements are affected by various factors in different ethnic groups. Very little or no data available on upper and lower segment of face in Gujarati population. So the aim was to prepare data of upper and lower facial segment measurements in gujarati population and find out gender variations if any. **Material and Methods:** 300 living subjects were measured for Forehead height (trichion-glabella, tr-gl), Upper face width (zygion-zygion, zy-zy), Upper face depth (tragion – nasion, t-n), Lower face height (subnasale- gnathion, sn-gn), Lower face width, gonion-gonion, go-go), Lower face depth (tragion-gnathion, t-gn). **Result:** Mean values of forehead height (tr-gl), Upper face width (zy-zy), Upper face depth (t-n), Lower face height (sn-gn), Lower face width(go-go) and Lower face depth (t-gn) were 49.49 ± 10.43 mm, 123.07 ± 9.5 mm, 115.46 ± 6.95 , 58.56 ± 10.18 , 104.37 ± 16.32 and 130.36 ± 9.08 in males and 46.4 ± 9.67 , 117.25 ± 8.99 , 112.43 ± 5.89 , 54.4 ± 10.26 , 103.93 ± 19.12 and 125.38 ± 7.37 in females respectively. Out of these, significant difference between male and female was found for Forehead and lower face heights. **Conclusion:** Data obtained from this study may be helpful in manufacturing face masks, face identification devices, facial reconstruction surgeries and diagnosis in orthodontics.

Key words: Facial morphometrics, Lower face, Upper face.

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