

Conference Abstract

DAY 2 16th September 2023 (Saturday)

POSTER

11.00 am-12.00 pm

Scientific Session 1

Anthropometric Study of Human Ear Auricle in North Indian Population

Singh Amoldeep, Mahajan Anupama, Chaudhary Rajeev

Department of Anatomy, Indira Gandhi Medical College, Shimla

Sri Guru Ram Das Institute of Medical Sciences and Research, Amritsar

Email: dr.amoldeep@gmail.com

Introduction: The ear auricle has similar diversity as of the fingerprints but the research work on the ear auricle is very rare as compared to research on fingerprints. Ear auricle can serve as a better identification feature as it exhibits less changes with the advancement of age and is less likely to get injured or manipulated.

Objective: The present study is performed to estimate the anthropological measurements of ear auricle in north Indian population

Materials and methods: The different parameters of ear auricle were measured in 480 participants of North Indian origin with their age ranging from 21-60 years. An informed consent was duly signed by all the participants of the study. The parameters recorded are ear length, ear width, ear length up to inter tragic notch, lobule length, lobule width, tragus length and tragus width.

Results: The ear auricle length and width, ear auricle length up-to inter-tragic notch, tragus length and width and auricle height above tragus are greater in males as compared to females whereas the lobule length and width and ear length below tragus are greater in females as compared to males.

Conclusion: The morphometric knowledge of ear auricle may be helpful for the plastic surgeons for cosmetic or reconstructive surgeries related to ear auricle. It is valuable in forensics to find out the identity of unknown person and can also be used as the biometric tool for identification.