

# Footprint Based Gait Pattern Analysis among Malaysian Indians for Person Identification in Forensic Science Perspective

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## Abstract

**Introduction:** Gait pattern analysis is a scientific procedure used for describing the human walking pattern and examining it for characteristic idiosyncrasies. The identification of perpetrators by means of Closed-circuit Television (CCTV) is commonly used. But footprint based gait patterns are generally found at crime scenes like burglary, murder, rape etc. This study was aimed to study the footprint based gait analysis among Malaysian Indians.

**Method:** The study subjects consist of 100 Malaysian Indians (50 males, 50 females) and gait patterns were collected by using footprint ink, roller and footprint plate following the standard procedure for analysis.

**Result:** The result of this study shows that gender can be determined from footprint based gait pattern analysis. The study also proved that no two gait patterns are similar, like fingerprints.

**Conclusion:** Footprint based gait pattern analysis is a promising method for inclusion and exclusion of suspects and finally for person identification and the findings can be very well applied in real scene of crime in forensic perspective.

## Keywords:

Forensic Science, Footprint, Gait pattern, Malaysian Indian, Forensic perspective