

RELATIONSHIP BETWEEN FACIAL PROPORTION, SIX MAXILLARY ANTERIOR TEETH
RATIO AND GENDER IN LAOTIAN POPULATION.

PHONEPASEUTH SITTHIPHAN 5438117 DTD/M

M.Sc. (DENTISTRY)

THESIS ADVISORY COMMITTEE: NITA VIWATTANATIPA, M.Sc. SUCHAYA
PORNPRASERTSUK, Ph.D. JIRA CHINDASOMBATJAROEN, Ph.D.

ABSTRACT

Aim: To determine the distribution of different facial types and to compare the crown ratio (width/length) of the central incisor, lateral incisor and canine teeth between genders.

Materials and methods: In all, 100 males and 100 females, aged 18-35 years old were recruited for the study. Facial measurements included width and height of face. The type of face was indexed into broad, average, and narrow facial type. Crown ratio (width/length) of the central incisor, lateral incisor and canine teeth were measured from study models of the subjects. All data was measured in millimeters.

Statistical analysis: Descriptive statistics were used, and an Independent t-test at 95% confidential level was used to compare crown ratio (width/length) of the central incisor, lateral incisor and canine between genders for classification of broad facial type. Pearson's correlation was used (P-value<0.5), to determine the correlation between facial proportion and teeth dimension among each group.

Results: The male group comprised 94 broad and 6 average; no narrow types were found. The female group comprised 93 broad, 5 average and 2 narrow types. Significant differences were seen in crown ratio (width/length) of the central incisor, lateral incisor and canine teeth between males and females with broad facial type. However, no correlation was observed between facial width and height of teeth proportion.

Conclusion: The majority of male and female subjects exhibited broad facial types. Significant different crown ratios were found (width/length) of the central incisor, lateral incisor and canine teeth with broad facial type in both males and females. However, no correlation was found between facial width and height of teeth proportion.

KEY WORDS: FACIAL TYPES/ THE CROWN RATIO (WIDTH/LENGTH)/
LAOTIAN POPULATION

90 pages