

SKELETAL AGE ASSESSMENT AND LATERAL COMPARISON USING MP3 AND HAND WRIST RADIOGRAPH

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ABSTRACT

MP3 stages were excellently correlated to Fishman's skeletal maturity indicators of hand wrist area. Developmental stages of middle phalanx of third finger (MP3) can be considered reliable for the assessment of the pubertal status with the methodology suggested by Hagg and Taranger and modified by Leito. The pre peak of puberty denoted by stage E $\frac{3}{4}$ and F are comparable to SMI 1 and 3, peak of puberty denoted by stage FG, G, H are comparable to SMI 4 and 7, post, peak of puberty denoted by stage I is comparable to SMI 11 which marks the end of pubertal growth spurt.

A significant correlation was found between ossification stages of SMI and MP3 on right and left hand wrist area indicates that the ossification stages of right and left hand are symmetrical. Thus either side of hand can be used for skeletal age assessment.

Chronological age was not significantly correlated to MP3 as well as SMI and there is wide variation in maturity level of each group, hence not a good indicator for maturational assess.

KEYWORDS: *Skeletal Age, Hand Wrist Radiograph, Middle Phalanx3*