

Maturity Status of Male Boys in Punjab - India

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Abstract : The Present cross-sectional study was conducted on 610 boys (ranging in age bracket of 11 to 17 years) to assess their developmental age to check percentage of early, normal and late maturity among them, and to check whether there is any significant difference in their calendar age and developmental age. Developmental age of these subjects has been accessed by TW2 method (using hand wrist X-rays) and their chronological age was checked from their date of birth certificate. Developmental status of subjects i.e. early, normal or late mature was considered with +2 years or -2 years from their calendar age. Results of this study shows that 50% boys were normal in their maturity status in all age brackets and rest of subjects were either early maturers 24.92% or late maturers 25.08%. When pattern of maturity was studied in each age group it has been found that till the age of 15 years, percentage of normal maturity was less than 50 % whereas in 16 and 17 years age groups, this percentage of normal maturity increased to 60% - 65 % (this may be because at this age mostly boys attain adolescence) Further investigation of each age group showed that till the age of 14 years percentage of late maturity among these boys were approximately 35% to 40% whereas early maturity lies between 15% to 20%. It has been found from the present study that at the age of 15 years, there is a twist among percentage of late and early maturity among boys-early maturers are 38.61% and late maturers are 16.84%. At the age of 16 and 17 years percentage of late maturity has been decreased to 3% to 6%, whereas percentage of early maturity increased to 35.64 % and 30.69 % respectively.

Keywords : maturity status, developmental age, chronological age, X-rays

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