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AN APPROACH TO FUJIMMON'S GROWTH CURVE FROM SCAMMON □ NEW PROPOSAL FOR HUMAN GROWTH CURVE MODEL

Abstract:

Why do the proportions of the human body change with age? The essential meaning of that question cannot be understood without unraveling the process of human evolution. Moreover, even if the mechanisms of evolution were to be elucidated, the reasons why proportions must be changed or why we must evolve in that way and how far humans will continue evolving are likely to remain mysteries. However, the mechanisms for the changes in human body proportions can be explained. The present study explains not only the mechanisms for changes in body proportion but also, to construct a standard growth system for humans, confirms the reverification process of the growth curves proposed by Scammon almost 90 years ago and seeks to solve problems by offering the Fujimmon growth curves proposed by the author. In addition, the Fujimmon and Scammon growth curves are described on the same scale and the two are compared. The results indicate the basic ambiguity of curves described freehand and the clarity from the exactness provided by the mathematical functions described by the wavelet interpolation model. The validity and efficacy of the Fujimmon growth curves are then shown.

Keywords:

Fujimmon's growth curve, Scammon's growth curve, Wavelet Interpolation Method, Human growth curve, Physical development model

JEL Classification: I00, I10, I19