BOOK REVIEW

Legacy of a Longitudinal Growth Study in Central Australia. By Tasman Brown, Grant C Townsend, Sandra K Pinkerton, James R Rogers. Published in Adelaide by University of Adelaide Press, 2011. pp. 327. ISBN: 978-0-9807230 -9-0, price A\$35.00, paperback. 978-0-9870730-0-6, Free, e-book PDF.

This is terrific book, detailing the important lonaccount of more recent outcomes and collabora- facial growth. tions using this valuable resource of curated recby an open access electronic version.

the extensive impact of this research in the understanding of dental anthropology and cranio-facial

dinal study in Yuendumu touches most aspects relating to the dentition and developing craniofacial complex. The teeth of Australian Aboriginals are characterized by larger crown diameters than most other living groups and ample dental arch dimensions. Dental crown features form a characteristic Australian dental complex that includes Carabelli trait and metaconules (cusp 5) on maxillary molars, cusps 6 and 7 on mandibular molars and shovel shaped incisors. Tooth use as tools and extensive occlusal and interproximal tooth wear are also features. Mid-facial prognathism is common, with relative protrusion of the mid-facial region particularly prominent in the alveolar bone, gitudinal dental and growth study in Yuendumu allowing wide excursions of the mandible during (1951-1971), how it came about, the logistics, the mastication. Less malocclusion and tooth crowding principle investigators and what knowledge has occurs than in other populations. The longitudinal been gained. This is a readable book, with a fasci- study has documented the age of eruption and exnating historical account of the background to the foliation of deciduous and permanent teeth as well study, the complexity and difficulty collecting lon- as facial growth. Lip and tongue pressure in relagitudinal data in a remote, inhospitable region. All tion to occlusion, occlusal wear, function in the four authors write from direct experience, particu- worn dentition and the function of cusps have also larly Tasman Brown and Grant Townsend. The been investigated. More recent studies document book has nine chapters and three appendices and the oral health and general health in Yuendumu is richly illustrated with photographs, tables and Aboriginals at the present time and the increasing diagrams. The chapters fall into three sections and dental caries experience as food habits changed. a bibliography. The first part chronicles early expe- Human longitudinal growth studies in general and ditions to the Northern Territory and the logistics their future are discussed. These two chapters are of the field trips of the longitudinal study. The supported by an excellent biography of publicamiddle section summarises the research findings of tions and theses. The appendices and online access the occlusal development and function of teeth and of an ebook also make this an important resource facial growth patterns of the Warlpiri people. The that will be valuable to anyone with an interest in third section is about the people involved and an dental anthropology, dental morphology or cranio-

The only limitation of this book is that the two ords. The documented list of the hundreds of pub- chapters on occlusal development and function lications, theses and films is a valuable reference. and facial growth in the Warlpiri are too short as, In addition, a useful appendix of 24 summary ta- in my view, they could be a volume in their own bles of growth variables from 5-20 years in half right. The only related book is about the Fells lonyear intervals is provided. The book is supported gitudinal study of human growth, maturation and body composition (Roche 1992). The Yuendumu The major strength of this book is the way it legacy is written in a more narrative style and bebrings together the historical context, the logistic cause of the unique timing collecting data on previorganisation of the field trips and challenges of ous hunter-gatherers and the focus on the dentidata collection during this period. It also describes tion, this book will be of particular interest to readers of Dental Anthropology Journal.

It is a privilege to have worked on this material growth. These two chapters build on what must be and dental anthropologists the world over, owe a one of the founding studies of dental anthropology debt of gratitude to Campbell and Barrett as well in the modern era i.e. Campbell's thesis on the den- as the authors, for collecting, documenting and tition and palate of the Australian Aboriginal curating the records that make up the physical leg-(1925). The legacy of knowledge from this longitu- acy that continue to contribute to the understand27 BOOK REVIEWS

ing of the complexities of the developing dentition and cranio-facial region.

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LITERATURE CITED

Campbell TD. 1925. Dentition and Palate of the Australian Aboriginal. Adelaide: Univ. Adelaide. Roche AF. 1992. Growth, Maturation and body composition. Cambridge studies of Biological Anthropology. Cambridge University Press, Cambridge.

CORRECTION

The author would like to apologise for an error in calculating standard deviation using logistic regression in the publication of Liversidge HM. 2010. Demirjian stage tooth formation results from a large group of children. *Dental Anthropology* 23:16-24.

The standard logistic distribution has a variance of $\pi^2 \div 3$ and standard deviation of $\pi^2 \sqrt{3}$ (Greene and Hensher 2010). This means that standard deviation values in Tables I and II are incorrect and require a correction factor. The standard deviation should be corrected by multiplying with 1.814 year.

LITERATURE CITED

Greene WH, Hensher DA. 2010. Modeling ordered choices. A primer. Cambridge: Cambridge University Press. page 16.

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