

University of the Pacific  
Arthur A. Dugoni School of Dentistry  
Institute of Dental History and Craniofacial Study  
Spencer R. Atkinson Library of Applied Anatomy skull collection

## **Citations resulting from study of the collection** (Arranged in categories, chronologically)

*Last revised June 2011*

# CLINICAL APPLICATIONS

## *Dentistry*

### Dental Anesthesia

- Gulland, S., Hann, K., McMichael, G. and Richards, G.D. 2011. The implications of bony and soft tissue variation for success rates in mandibular nerve (V3) anesthesia. Poster presented at the 13<sup>th</sup> Annual Pacific Research Day, University of the Pacific, Dugoni School of Dentistry, San Francisco, CA.
- Budenz, A.W. 2007. The importance of technique selection for administration of local anesthetics. *Contemporary Oral Hygiene* 7(4):20-26.
- Mardini, S., Rapal, K., Moore, S., Olson, M., and Richards, G.D. 2001. Mandibular nerve block failures: anatomical considerations. Poster presented at the Student Competition Table Clinic, Scientific Session of the California Dental Association, Anaheim, CA.
- Mardini, S., Rapal, K., and Richards, G.D. 2001. Mandibular nerve block failures: Anatomical considerations. Paper presented at the 3<sup>rd</sup> Annual Student Research Competition, University of the Pacific, School of Dentistry, San Francisco, CA.
- Mardini, S., Rapal, K., Moore, S., and Richards, G.D. 2000. Sulcus colli region ontogeny and mandibular nerve (V3) anesthesia. Poster presented at the Hinman Student Research Symposium, Memphis, TN.
- Casagrande, A. 1994. The long buccal nerve injection, is it necessary in pediatric patients?" Poster presented at the Student Research Competition, University of the Pacific, School of Dentistry, San Francisco, CA.
- Casagrande, A. 1994. Is the long buccal injection a clinical necessity in children?" Poster presented at the Student Competition Table Clinic, Scientific Session of the California Dental Association, Anaheim, CA.

## Dental Radiology

- Horton, C.F., Richards, G.D., White, T.D., MacDowell, A., Jabbour, R.S., and Nasiatka, J. 2010. Color centers induced in dental enamel during synchrotron microcomputed tomography: phase I assessment. Paper presented at the 79<sup>th</sup> Annual Meeting of the American Association of Physical Anthropologists, Albuquerque, NM (*Am. J. Phys. Anthropol.* Abstract, 132).
- Olejniczak, A.J. and Grine, F.E. 2006. Assessment of the accuracy of dental enamel thickness measurements using micro-focal X-ray computed tomography. *Anat. Rec.* 288A: 263-275.
- Grine, F.E. 2005. Enamel thickness of deciduous and permanent molars in modern *Homo sapiens*. *Am. J. Phys. Anthropol.* 126: 14-31.
- Kahn, S.V. 1993. Test of X-ray methods and criteria. M.S.D. in Orthodontics, University of the Pacific, Arthur A. Dugoni School of Dentistry.
- Kahn, S.V., Richards, G.D., and Watrous, A.C. 1993. Developmental-age: test of X-ray methods and assessment of criteria. Paper presented at the Annual Meeting of the University of the Pacific, School of Dentistry, Asilomar Conference Center, Pacific Grove, CA and at the 71<sup>st</sup> Annual Meeting of the International Association for Dental Research/American Association for Dental Research, Chicago, IL. *J. Dent. Res.* 72:341 (Abstract).

## Cephalometric Analyses

- Baumrind, S. 2011. The AAOF craniofacial growth legacy collections project: a powerful new instrument for orthodontic teaching and research. Paper presented at the 2011 Midwestern Society of Orthodontists Annual Meeting, American Association of Orthodontists, Chicago, IL.
- Sallapudi, N. 2001. Validity of stereo X-rays in locating landmarks in dry skulls. M.S.D. in Orthodontics, University of the Pacific, Arthur A. Dugoni School of Dentistry.
- Caillouel, B. 2001. Analysis of the difference between right and left facing cephalometric X-rays. MSD in orthodontics, University of the Pacific, Arthur A. Dugoni School of Dentistry.
- Strassner, M. 1975. A study of sources of error in cephalometric technique and interpretation. M.S.D. in Orthodontics, University of the Pacific, Arthur A. Dugoni School of Dentistry.

## Orthodontic Treatment

- Corbett, J.S. 1998. The relationship of the incisive canal to maxillary median diastema. M.S.D. in Orthodontics, Loma Linda University.
- Beck, B.W. 1985. Symmetry as measured from foramen rotundum. M.S.D. in Orthodontics, University of the Pacific, Arthur A. Dugoni School of Dentistry.
- Champlin, T.L. 1984. Bilateral relationships of the maxillary dentition as measured from foramen spinosum. M.S.D. in Orthodontics, University of the Pacific, Arthur A. Dugoni School of Dentistry.
- Atkinson, S.R. 1968. A key to occlusion. *Amer. J. Ortho.* 54(3):217-233.
- Atkinson, S.R. 1966. Jaws out of balance; part I. *Amer. J. Ortho.* 52(1):47-55.
- Atkinson, S.R. 1966. Jaws out of balance; part II. *Amer. J. Ortho.* 52(5):371-380.
- Atkinson, S.R. 1966. "Open-bite" malocclusion. *Amer. J. Ortho.* 52(12):877-886.
- Atkinson, S.R. 1965. Normal jaws in action. *Amer. J. Ortho.* 5(7):510-528.
- Atkinson, S.R. 1964. Balance – The magic word. *Amer. J. Ortho.* 50(3):189-202.

- Atkinson, S.R. 1963. An unexplored field of communication. *Amer. J. Ortho.* 49(8):588-592.
- Atkinson, S.R. 1951. The mesiobuccal root of the maxillary first molar. *So. Calif. State Dent. J.*, December:2-12.
- Atkinson, S.R. 1950. The third molar problem. *J. Oral Surg.* 8:136-142.
- Atkinson, S.R. 1949. Changing dynamics of the growing face. *Amer. J. Ortho.* 35(11):815-836.
- Atkinson, S.R. 1943. The permanent maxillary lateral incisor. *Amer. J. Ortho. and Oral Surg.* 29(12):685-698.
- Atkinson, S.R. 1942. Some anatomic factors guiding treatment therapy. *Amer. J. Ortho. and Oral Surg.* 28(11):704-720.
- Atkinson, S.R. 1940. Growth and development of teeth and jaws (A) Mandible (B) Maxilla. *Am. J. Ortho. and Oral Surg.* 26:829-842.
- Atkinson, S.R. 1939. Orthodontics as a life factor. *Amer. J. Ortho. and Oral Surg.* 25(12):1133-1142.
- Atkinson, S.R. 1937. The strategy of orthodontic treatment. *J. Amer. Dent. Assoc.* 24:560-574.

## Periodontal Conditions

- McCoy, G. 1999. Dental compression syndrome: A new look at an old disease. *J. Oral Implantol.* 25(1):35-49.
- Bryan, R.L. 1972. Study of jaw, bones and teeth of human skulls from Mexico. M.S.D. in Periodontics, University of the Pacific, Arthur A. Dugoni School of Dentistry.
- Larato, D.C. 1970. Furcation involvements: incidence and distribution. *J. Periodontol.* 41(9):499-501.

## Jaw Mechanics

- Walker, L. 1989. Conformation and mechanics of the temporomandibular joint. Table Clinic, Scientific Sessions of the California Dental Association, Anaheim, CA.
- Wong, J.Y. 1985. The effects of mandibular ramal height discrepancy on dental attrition. M.S.D. in Orthodontics, University of the Pacific, Arthur A. Dugoni School of Dentistry.

# CLINICAL APPLICATIONS

## *Craniofacial Growth and Development*

### Craniofacial Morphology

- Pagano, A. S., Wang, E. and Laitman, J.T. 2011. Growth change and functional morphology of the osseous choanal boundaries of humans: a 3D geometric morphometric study. Poster

- presented at the 2011 American Association of Anatomists Annual Meeting, Washington, D.C. *FASEB J.* 25 Suppl. 490.8 (Abstract).
- Richards, G.D., Asadi, H., Turner, S., Dechant, D., and Burk, D. 2001. Palatal deformities in cranial malformation. Poster presented at the Annual Research Conference of the University of the Pacific, School of Dentistry, Asilomar Conference Center, Pacific Grove, CA.
- Richards, G.D., Asadi, H., and Burk, D. 1999. Hemifacial microsomia: a review. Table clinic presented at the Annual Research Conference of the University of the Pacific, School of Dentistry, Asilomar Conference Center, Pacific Grove, CA.

## Craniofacial Ontogeny

### *Facial*

- Wang, E., Pagano, A.S. and Laitman, J.T. 2011. Functional integration of the bony orbits and piriform aperture during facial growth in humans. Poster presented at the 2011 American Association of Anatomists Annual Meeting, Washington, D.C. *FASEB J.* 25 Suppl. 489.7 (Abstract).

### *Craniofacial Spaces*

- Richards, G.D. and Jabbour, R.S. 2011. Ontogenetic constraints on fluid and air filled spaces of the human craniofacial complex. Paper presented at the 80<sup>th</sup> Annual Meeting of the American Association of Physical Anthropologists, Minneapolis, MN (*Am. J. Phys. Anthropol.* Abstract:253)

### *Mental Foramen*

- Moore, S., Olson, M., and Richards, G.D. 2002. Mental foramen position: ontogenetic changes and relationship to craniofacial growth theory. Poster presented at the 3<sup>rd</sup> Year Class Retreat, University of the Pacific, School of Dentistry, Asilomar Conference Center, Pacific Grove, CA, and at the 4<sup>th</sup> Annual UOP Research Day and ADA/Dentsply Student Research Competition, University of the Pacific, School of Dentistry, San Francisco, CA.
- Moore, S., Olson, M., and Richards, G.D. 2001. An ontogenetic perspective on mental foramen position: preliminary results. Poster presented at the 3<sup>rd</sup> Annual UOP Student Research Competition, University of the Pacific, School of Dentistry, San Francisco, CA.

### *Suture*

- Cobain, L., Nabipour, S., and Richards, G.D. 2003. The role of sutures in frontofacial growth: evidence from the metopic suture. Poster presented at the 5<sup>th</sup> Annual Pacific Research Day and ADA/Dentsply Student Research Competition, University of the Pacific, School of Dentistry, San Francisco, CA, and at the 3<sup>rd</sup> Year Class Retreat, University of the Pacific, School of Dentistry, Asilomar Conference Center, Pacific Grove, CA.
- Cobain, L., Nabipour, S., and Richards, G.D. 2002. The role of sutures in frontofacial growth: evidence from the metopic suture. Poster presented at the 4<sup>th</sup> Annual UOP Research Day and Student Research Competition, University of the Pacific, School of Dentistry, San Francisco, CA.

- Cobain, L., Nabipour, S., and Richards, G.D. 2002. The role of the sutura frontalis in frontofacial growth. Poster presented at the 8<sup>th</sup> Annual Hinman Student Research Symposium, Memphis, TN.
- Cobain, L., Nabipour, S., and Richards, G.D. 2002. The role of sutures in frontofacial growth: evidence from the metopic suture. Paper presented at the 80<sup>th</sup> General Session of the International Association for Dental Research, B.G. Sarnat Student Research Competition, San Diego, CA. *J. Dent. Res.* 81 (Spec. Iss. A):A-220.
- Richards, G.D. 1994. On sutures and synchondroses. Paper presented at the 63rd Annual Meeting of the American Association of Physical Anthropologists, Denver, CO. *Am. J. Phys. Anthropol. Suppl.* 18:168 (Abstract).
- Cedars, M.G., Antón, S.C., and Richards, G.D. 1992. Craniofacial morphology in unicoronal synostosis. Paper presented at the 49<sup>th</sup> Annual Meeting of the American Cleft Palate-Craniofacial Association, Portland, OR.

## Craniofacial Surgery

### *Cleft Palate Repair*

- Oh, A.K., and Wong, G.B. 2001. An osteotome for outfracture of the greater palatine foramen in cleft palate repair. *Plast. Reconstr. Surg.* 107(3):820-2.

### *Distraction Osteogenesis*

- Chin, M. 2003. Le Fort I Distraction with internal, submergible devices: 52 consecutive cases. In Arnaud (ed). *Proceedings of the 4th International Congress on Cranial and Facial Bone Distraction Processes*, Monduzzi Editore.
- Chin, M. 2003. Le Fort III Distraction with internal devices: long-term follow-up. In Arnaud (ed): *Proceedings of the 4th International Congress on Cranial and Facial Bone Distraction Processes*, Monduzzi Editore.
- Chin, M. 1995-2002. Numerous (39) local, national and international presentations of the Le Fort Midface and Alveolar Distraction Osteogenesis techniques (Maxillofacial surgery using internal devices).
- Chin, M. 2000. Midface distraction osteogenesis. In Samchukov (ed): *Craniofacial Distraction Osteogenesis*, Mosby.
- Chin, M. 2000. Alveolar distraction osteogenesis. In Samchukov (ed): *Craniofacial Distraction Osteogenesis*, Mosby.
- Chin, M. 1999. Alveolar distraction osteogenesis. In Stucci-McCormick (ed): *Atlas of the Oral and Maxillofacial Surgery Clinics of North America*.
- Chin, M. 1998. Distraction osteogenesis in maxillofacial surgery. In Lynch (ed.): *Tissue Engineering in Maxillofacial Surgery and Periodontics*, Quintessence Publishing.
- Chin, M. and Toth, B. A. 1997. LeFort III advancement with gradual distraction using internal devices. *Plast. Reconstr. Surg.* 100(4):819-830.
- Chin, M. and Toth, B. A. 1996. Distraction osteogenesis in maxillofacial surgery using internal devices: Review of Five Cases. *J. Oral and Maxillofac. Surg.* 54:45-53.
- Chin, M. and Toth, B. A. 1995. LeFort III midface advancement using gradual distraction. *Proc. Intern. Cong. Intern. Soc. Craniofac. Surg.* Saint-Tropez (French Riviera), Monduzzi Editore, Bologna, Italy.

- Toth, B. A. and Chin, M. 1998. Orbital advancement by gradual distraction. In: Toth, Keating, Ellis and Stewart (eds.) *An Atlas of Orbitocranial Surgery*. London: Martin Dunitz Ltd.
- Toth, B. A. and Chin, M. 1997. Distraction osteogenesis of the midface. In: McCarthy, J. G. (ed.) *Distraction of the Craniofacial Skeleton*. New York: Springer-Verlag.

### *Plastic Surgery*

- Ousterhout, D.K. 2009. *Facial feminization surgery, a guide for the transgendered woman*. Omaha, NB: Addicus Books.
- Ousterhout, D.K. (ed.) 1991. *Aesthetic contouring of the craniofacial skeleton*. Boston: Little, Brown, and Co., pp. 1-179.
- Ousterhout, D.K. 1987. Feminization of the forehead: contour changing to improve female aesthetics. *Plast. Reconstr. Surg.* 79(5):701-711.

## RESEARCH APPLICATIONS

### *Human Population Studies*

#### Pathological Dental Conditions in Historic Times

- Edwards, E. 2011. The attrition-periodontal disease relationship: a study from early 20<sup>th</sup> century Central America. Unpublished Senior thesis, Anthropology BA, San Francisco State University, San Francisco, CA

#### Pathological Craniofacial Conditions in Historic Times

- Wilczak, C.A. and Zimova Hopkins, V. 2010. Patterns of inflammatory orbital lesions in a modern anatomical sample. Poster presented at the 37<sup>th</sup> Annual Meeting of the Paleopathology Association, April 13-14, Albuquerque, NM. *Paleopath. Assoc. Newsletter* (Abstract).

#### Congenital Craniofacial Conditions in Prehistory

##### *Osteochondrodysplasia*

- Ibarra, C.L., Richards, G.D., Horton, C.F. and Ojeda, H.M. 2011. Bony criteria for differentiating osteochondrodysplasias: applications in prehistory. Poster presented at the 80<sup>th</sup> Annual Meeting of the American Association of Physical Anthropologists, Minneapolis, MN (Abstract, 173).
- Horton, C.F. and Richards, G.D. 2009. Osteochondrodysplasias in prehistory: new evidence from the V-VIth dynasty at Giza, Egypt. Poster presented at the 78th Annual Meeting of the American Association of Physical Anthropologists, Chicago, IL. *Suppl. Am. J. Phys. Anthropol.* Suppl. 44:201 (Abstract).

### *Craniosynostosis*

- Antón, S.C., Cedars, M.G., and Richards, G.D. 1992. Quantification of craniofacial morphology in unicoronal synostosis. Paper presented at the 61<sup>st</sup> Annual Meeting of the American Association of Physical Anthropologists, Las Vegas, NV. *Am. J. Phys. Anthropol.* Suppl. 14:44 (Abstract).
- Richards, G.D. 1992. Premature metopic synostosis? Interpretation of cranial shape change in archaeologically derived individuals. Paper presented at the 61<sup>st</sup> Annual Meeting of the American Association of Physical Anthropologists, Las Vegas, NV. *Am. J. Phys. Anthropol.*, Suppl. 14:137-138 (Abstract).
- Antón, S.C., Kolar, J., and Richards, G.D. 1992. A workshop on cranial synostosis. Presented at the 19<sup>th</sup> Annual Meeting of the Paleopathology Association, Las Vegas, NV.

### *Hydrocephaly*

- Antón, S.C. and Richards, G.D. 1991. Osteological criteria for the differentiation of hydrocephalus and its subgroupings. Paper presented at the 60<sup>th</sup> Annual meeting of the American Association of Physical Anthropologists, Milwaukee, WI. *Am. J. Phys. Anthropol.*, Suppl. 12:44 (Abstract).
- Richards, G.D. and Antón, S.C. 1991. Craniofacial configuration and postcranial development of a hydrocephalic child: with a review of cases and comments on diagnostic criteria. *Am. J. Phys. Anthropol.* 85:185-200.
- Antón, S.C. and Richards, G.D. 1989. Cranio-facial configuration and postcranial development of a hydrocephalic child (ca. 2000 B.C. – 500 A.D.). Paper presented at the 16<sup>th</sup> Annual Meeting of the Paleopathology Association, San Diego, CA.

### *Microcephaly*

- Richards, G.D. 1985. Analysis of a microcephalic child from the Late Period (ca. 1100-1700 A.D.) of central California. *Am. J. Phys. Anthropol.* 68:343-357.

### *Endocranial Hyperostosis*

- Antón, S.C. 1997. Endocranial hyperostosis in Sangiran 2, Gibraltar 1, and Shanidar 5. *Am. J. Phys. Anthropol.* 102:111-122.

### *Hyperostosis Frontalis Interna*

- Watrous, A., Anton, S.C., and Plourde, A.M. 1993. Hyperostosis frontalis interna in ancient Egyptians. Paper presented at the 62<sup>nd</sup> Annual Meeting of the American Association of Physical Anthropologists, Toronto, Canada. *Am. J. Phys. Anthropol.* Suppl. 16:205 (Abstract).

### *Recognition and Diagnosis*

- Antón, S.C. 1993. Congenital conditions: what are they and what can they tell us? Paper presented at the 20<sup>th</sup> Annual Meeting of the Paleopathology Association, Toronto, Canada.
- Richards, G.D. 1993. Congenital craniofacial conditions in prehistory: recognition and diagnosis. Paper presented at the 20<sup>th</sup> Annual Meeting of the Paleopathology Association, Toronto, Ontario, Canada. pp. 15-16 (Abstract) and at the Archaeology Lecture Series at the Archaeological Research Facility, University of California at Berkeley.

## Artificial Craniofacial Conditions in Prehistory

### *Intentional Cranial Deformation*

- Antón, S.C. and Weinstein, K.J. 1999. Artificial cranial deformation and fossil Australians revisited. *J. Hum. Evol.* 36:195-209.
- Antón, S.C. 1989. Facial structure: The influence of intentional cranial vault deformation. Paper presented at the 58<sup>th</sup> Annual Meeting of the American Association of Physical Anthropologists, San Diego, CA. *Am. J. Phys. Anthropol.* 78:184 (Abstract).
- Antón, S.C. 1989. Intentional cranial vault deformation and induced changes of the cranial base and face. Paper presented at the 58<sup>th</sup> Annual Meeting of the American Association of Physical Anthropologists, San Diego, CA. *Am. J. Phys. Anthropol.* 79:253-267.
- Antón, S.C. 1988. Intentional cranial vault deformation and induced changes of the cranial base and face. Paper presented at the 57<sup>th</sup> Annual Meeting of the American Association of Physical Anthropologists, Kansas City, MO. *Am. J. Phys. Anthropol.* 75:181 (Abstract).
- Antón, S.C., Jaslow, C.R., and Swartz, S.M., 1992. Sutural complexity in artificially deformed human (*Homo sapiens*) crania. *J. Morphol.* 214(3):321-32.
- Antón, S.C., Jaslow, C.R., and Swartz, S.M. 1990. Sutural complexity in artificially deformed human crania. Paper presented at the 59<sup>th</sup> Annual Meeting of the American Association of Physical Anthropologists, Miami, FL. *Am. J. Phys. Anthropol.* 81:189 (Abstract).
- Antón, S.C., Jaslow, C.R., and Swartz, S.M. 1989. Sutural complexity in artificially deformed human crania. Paper presented at the Centennial Meeting of the American Association of Zoologists, Boston, MA. *Amer. Zool.* 29:122A (Abstract).
- Plourde, A.M. and Antón, S.C. 1992. Craniofacial compensation in artificially deformed children's crania. Paper presented at the 61<sup>st</sup> Annual Meeting of the American Association of Physical Anthropologists, Las Vegas, NV. *Am. J. Phys. Anthropol.*, Suppl. 14:132 (Abstract).
- Richards, G.D. and Antón, S.C. 1991. Facial changes subsequent to congenital and artificial vault deformation. Paper presented at the 60<sup>th</sup> Annual Meeting of the American Association of Physical Anthropologists, Milwaukee, WI. *Am. J. Phys. Anthropol.*, Suppl. 12:151 (Abstract).

## RESEARCH APPLICATIONS

### *Craniofacial Variation and Human Evolution*

#### Ontogenetic Changes

##### *Cranial*

- Hunt, J. 2004. Morphological integration of the catarrhine cranium: an ontogenetic and phylogenetic perspective. Unpublished Ph.D. Dissertation, Dept. of Anthropology, Yale University.

## *Frontal Bone*

- Ibarra, C.L., Richards, G.D., Jabbour, R.S., and Horton, C.F. 2010. Metric, morphologic and functional analysis of frontal bone ontogeny in *Homo sapiens*. Poster presented at the 79<sup>th</sup> Annual Meeting of the American Association of Physical Anthropologists, Albuquerque, NM. *Am. J. Phys. Anthropol.* Vol. 141, Suppl. 50:132 (Abstract).
- Richards, G.D., Nabipour, S., and Cobain, L. 2003. The *sutura frontalis* and frontofacial growth in Pleistocene to recent *Homo*. Paper presented at the 72<sup>nd</sup> Annual Meeting of the American Association of Physical Anthropologists, Tempe, AZ. *Am. J. Phys. Anthropol.*, Suppl. 36:178 (Abstract).

## *Foramen Magnum*

- Richards, G.D. and Jabbour, R.S. 2011. Foramen magnum ontogeny in *Homo sapiens*: a functional matrix perspective. *Anat. Rec.* 294:199-216.
- Jabbour, R.S. and Richards, G.D. 2010. Foramen magnum growth in modern humans: the ventral component. Poster presented at the 79<sup>th</sup> Annual Meeting of the American Association of Physical Anthropologists, April 14-17, Albuquerque, NM. *Am. J. Phys. Anthropol.* Vol. 141, Suppl. 50:133 (Abstract).
- Richards, G.D., Jabbour, R.S., and Standen, S. 2005. Foramen magnum ontogeny and evolution in humans, great apes, and fossil hominids. Poster presented at the 74<sup>th</sup> Annual Meeting of the American Association of Physical Anthropologists, Milwaukee, WI. *Am. J. Phys. Anthropol.* Suppl. 40:180 (Abstract).

## *Basicranium*

- Richards, G.D. 2007. Basicranial ontogeny and evolution in *Homo sapiens*. Unpublished Ph.D. Dissertation, Dept. of Anthropology, University of California at Berkeley, Berkeley, CA.

## Modern Geographic Variation

- Houghton, F.D. 2003. Skeletal maturation and estimating age-at-death during the first decade of life. Unpublished Ph.D. Dissertation, Dept. of Anthropology, University of Pittsburgh.
- Plourde, A.M. and Richards, G.D. 1995. The 'rocker jaw' and its craniofacial correlates reconsidered. Paper presented at the 64<sup>th</sup> Annual meeting of the American Association of Physical Anthropologists, Oakland, CA. *Am. J. Phys. Anthropol.*, Suppl. 20:180-181 (Abstract).
- Matsumura, H. 1995. A microevolutional history of the Japanese people as viewed from dental morphology. *National Science Museum Monograph #9*, Tokyo, Japan. Pp. 1-130.
- Richards, G.D. 1994. Delineating pacific populations through analysis of craniofacial anatomy. Paper presented at The Archaeology Association of the University of Calgary, Canada, Chacmool Conference. Papers of The Archaeology Association of the University of Calgary, Canada, Chacmool Conference (Abstract).
- Matsumura, H. 1994. A microevolutional history of the Japanese people from a dental characteristics perspective. *Anthropol. Sci.* 102(2):93-118.
- Kahn, S.V., Richards, G.D., and Watrous, A.C. 1993. Developmental dental-age: roentgenographic methods and assessment of criteria. Paper presented at the 62<sup>nd</sup> Annual Meeting of the American Association of Physical Anthropologists, Toronto, Canada. *Am. J. Phys. Anthropol.* Suppl. 16:120 (Abstract).

Boyce, M.H. 1982. Dental morphological variation: studies of dentition from Mexico and India. Research Fellow, Dept. of Stomatology, School of Dentistry, University of California at San Francisco, unpublished manuscript.

## Variation in Extinct and Prehistoric Populations

- Richards, G.D. 2006 Genetic, physiologic and ecogeographic factors contributing to variation in *Homo sapiens*: *Homo floresiensis* reconsidered. *J. Evol. Biol.* 19:1744-1767.
- Grine, F.E. 2004. Geographic variation in human tooth enamel thickness does not support Neanderthal involvement in the ancestry of modern Europeans. *S. Afr. J. Sci.* 100: 389-394.
- Antón, S.C. and Leigh, S.R. 2003. Growth and life history in *Homo erectus*. In J. Thompson, G. Krovits and A. Nelson (eds.). *Patterns of growth and development in the genus Homo*. Cambridge University Press. Chapter 9, pp. 219-245.
- Moore, S., Richards, G.D., and Olson, M. 2003. Recent human mental foramen ontogeny: its significance for craniofacial growth theory and phylogenetics of Pleistocene *Homo*. Paper presented at the 72<sup>nd</sup> Annual Meeting of the American Association of Physical Anthropologists, Tempe, AZ. *Am. J. Phys. Anthropol.*, Suppl. 36:154 (Abstract).
- Richards, G.D., Jabbour, R.S., and Anderson, J.Y. 2003. *Medial mandibular ramus: ontogenetic idiosyncratic and geographic variation in Recent Homo, great apes, and fossil hominids*. 1<sup>st</sup> ed. Oxford, England: British Arch Reports, Int. Series No. S1138; pp. 1-198.
- Antón, S.C. 2002. Cranial growth in *Homo erectus*. In N. Minugh-Purvis and K.J. McNamara (eds.): *Human Evolution Through Developmental Change*. Johns Hopkins University Press. Chapter 16, pp. 349-380.
- Antón, S.C., Márquez, S., and Mowbray, K. 2002. Sambungmacan 3 and cranial variation in Asian *Homo erectus*. *J. Hum. Evol.* 43:555-562.
- Grine, F.E. 2002. Scaling of tooth enamel thickness, and molar crown size reduction in modern humans. *S. Afr. J. Sci.* 98: 503-509.
- Jabbour, R.S., Richards, G.D., and Anderson, J.Y. 2002. Mandibular condyle traits in Neanderthals and other *Homo*: a comparative, correlative and ontogenetic study. *Am. J. Phys. Anthropol.* 119:144-155.
- Nevgloski, A.J. 2002. A reassessment of four cranial features used to define the new Middle Pleistocene hominids from Spain, *Homo antecessor*. Unpublished Ph.D. Dissertation, Northern Illinois University at DeKalb.
- Nevgloski, A.J. 2002. A preliminary reevaluation of the mylohyoid groove of Gran Dolina specimen ATD6-5. Poster presented at the 71<sup>st</sup> Annual Meeting of the American Association of Physical Anthropologists, Buffalo, NY. *Am. J. Phys. Anthropol.*, Suppl. 34:118. (Abstract).
- Antón, S.C. 2001. Cranial evolution in Asian *H. erectus*: The Ngandong hominids. *Geological Research and Development Centre Special Publication*, Indonesia. No. 27:39-46.
- Antón, S.C. 2001. Growth and life history in *Homo erectus*. Invited Paper. Patterns of Growth and Development in the Genus *Homo*. Invited Paper presented at the 70<sup>th</sup> Annual Meeting of the American Association of Physical Anthropologists, Kansas City, MO. *Am. J. Phys. Anthropol.* Suppl. 32:32-33.
- Mowbray, K., Marquez, S., Antón, S.C., Swisher, C.C. III, Jacob, T., Sawyer, G.J, Broadfield, D., Laitman, J.T., Holloway, R.L., Delson, E., and Tattersall, I. 2000. The newly recovered Poloyo hominin (PL-1) from Java. Paper presented at the 69<sup>th</sup> Annual Meeting of the American Association of Physical Anthropologists, San Antonio, TX. *Am. J. Phys. Anthropol.* Suppl. 30:233 (Abstract).

- Hutchinson, V.T. 2000. Circum-Mediterranean population dynamics: evidence from the Tangier maxilla. Unpublished Master's Thesis, Dept. of Anthropology, Northern Illinois University at DeKalb.
- Hutchinson, V.T. 2000. Circum-Mediterranean population dynamics: evidence from the Tangier (Morocco) maxilla. Paper presented at the 69<sup>th</sup> Annual Meeting of the American Association of Physical Anthropologists, San Antonio, TX. *Amer. J. Phys. Anthropol.*, Suppl. 30:184-185. (Abstract).
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## RESEARCH APPLICATIONS

### *Forensic Studies*

#### Assessing Forensic Variables: Age, Sex & Ancestry

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- McCabe, T. 1997. Implications of intermixture on human cranial morphology. Unpublished Ph.D. Dissertation, Dept. of Anthropology, University of New Mexico.
- Snodgrass, J.J. 1995 Craniometric determination of sex and ancestry in the forensic setting: accuracy and assumptions. Paper presented at the 22<sup>nd</sup> Annual Western Anthropology and Sociology Undergraduate Research Conference, Santa Clara University, CA. *Proc. West. Anthropol. and Sociol. Undergrad. Res. Conf.* 22:9 (Abstract).
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## Craniofacial Trauma

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# RESEARCH APPLICATIONS

## *The P&S Vertebrate Anatomy Collection*

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- Anderson, P.K.B. and Antón, S.C. 1993. Human bone modification?: An island example and its implications. Paper presented at the 58<sup>th</sup> Annual Meeting of the Society for American Archaeology, St. Louis, MO.
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# TEACHING APPLICATIONS

## *Human Osteology*

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## OTHER

### *Spencer Atkinson; Collection Use*

Dechant, D. 2011. The Atkinson collection: clinical, research and teaching applications. CE lecture presented at the University of the Pacific, Dugoni School of Dentistry, San Francisco, CA.

Dechant, D. 2011. The Atkinson collection: research applications. Poster presented at the 13<sup>th</sup> Annual Pacific Research Day, University of the Pacific, Dugoni School of Dentistry, San Francisco, CA.

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