

Résumé of: **Al M. Best, III**
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OVERVIEW

I am an applied statistician who enjoys collaborating with researchers in a variety of fields. My statistical expertise includes the general linear model, experimental design, test reliability and scaling, and survival and categorical data analysis. I enjoy teaching graduate students in the Medical School, Dental School and Nursing School.

EDUCATION

- PhD: (1984) Biostatistics, Medical College of Virginia at Virginia Commonwealth University, Richmond, VA USA
- MA: (1978) Quantitative Psychology, University of North Carolina, Chapel Hill, NC USA
- BS: (1973) Mathematics and Psychology, University of Tennessee, Knoxville, TN USA. Recipient of the Torchbearer award.

SELECTED SKILLS

- Statistical: Extensive experience in most aspects of general linear models analysis (including some mixed-models analysis); extensive experience in test construction, reliability/validity, and scaling; experience in reliability/survival analysis and categorical data analysis. In all of these areas I insist on clear, preferably graphical, presentation of results.
- Data management: Some experience with SAS/Access, SQL, MS/Access and interfacing databases with statistical analysis software. I can take data from most databases, spreadsheets, and statistical software and transfer it into most other databases, spreadsheets, and statistical software.
- Computer software: Expert in SAS (40 years) and JMP (4 books). Strong skills in the Microsoft Office suite. Wide experience with a wide variety of statistical and graphical software.
- Teaching: Extensive experience in developing courses and teaching statistical methods and software.

Communication: My extensive publication history makes it clear that I enjoy collaborating with a wide variety of people and that we can succeed in producing effective written and verbal communication.

WORK HISTORY

- 3/11–Present Director of Faculty Research Development, Associate Professor, Department of Periodontics, School of Dentistry, Virginia Commonwealth University. Support the research efforts of the faculty and students toward the goal of obtaining sponsored programs support; Facilitate the publication of completed research projects; Provide instruction in research methods and biostatistics; Work with the department chairs as they mentor and develop the research interests of the faculty.
- 9/00–3/11: Associate Professor, School of Dentistry, Medical College of Virginia, Virginia Commonwealth University. I Teach the Research Methods course required of almost all the post-graduate students in the School of Dentistry and support faculty research. Statistician with responsibility for experimental design, data management, and statistical analysis.
- 9/84–Present: Affiliate Associate Professor, Department of Biostatistics, Medical College of Virginia Campus, Virginia Commonwealth University (Affiliate since 2011, Assistant Professor until 1993). Course master for the two-semester Statistical Methods course required of most of the MS and PhD students in the School of Medicine (BIOS 543/544). Selected as Outstanding Teacher in the Department of Biostatistics in 2001, 2003, and 2009. Taught BIOS 553/554, 524.
- 7/93–Present: Affiliate Associate Professor, Department of Psychiatry, Commonwealth Institute for Child and Family Studies, and Virginia Treatment Center for Children, Medical College of Virginia, Virginia Commonwealth University.
- 8/81–7/93, Statistician, Clinical Research Center for Periodontal Diseases, School of Dentistry, Virginia Commonwealth University.
- 1/98–Present: Statistician with responsibility for experimental design, data management, and statistical analysis.
- 8/79–7/81 Planning and Development Department, Richmond Public Schools. Community Data Analyst with responsibilities for enrollment projections and management information systems for pupil transportation and for facilities planning. SAS installation representative.
- 7/77–8/79 Research and Development Department, National Board of Medical Examiners, Philadelphia PA. Research Associate for projects developing methods for the assessment of physician interpersonal skills and problem solving skills.

- 8/76–6/77 Biostatistics Department, University of North Carolina, Chapel Hill and the Instituto de Nutrition de Centro America y Panama, Guatemala. Data Manager and Assistant Statistician for a water quality and public health research project. Responsible for maintaining the ongoing census data on the study population.
- 6/76–7/76 Research Department, Educational Testing Service, Princeton, New Jersey. Intern in research with responsibilities in the development and scaling of a test for evaluating problem solving ability (now part of the GRE).
- 8/73–5/76 L.L. Thurstone Psychometric Laboratory, Psychology Department, University of North Carolina. Research Assistant working in applied statistical programming and analysis of problem solving. Teaching Assistant for graduate courses in Analysis of Variance and in Introduction to Multivariate Statistics.
- 1/71–6/73 Learning Research Center, University of Tennessee, Knoxville. Assistant to the Director for research and development of a campus-wide teacher and course evaluation system.

TEACHING

- DENT580 Biostatistics and Research Design in Dentistry. For MSD candidates in the School of Dentistry. Taught from 2000 to present.
- BIOS524 The statistical computing and data management class. Taught from ~1984-1999.
- BIOS543/544 The applied biostatistical methods class for non-Biostat majors. Taught from 1999 to present. This course went from an enrollment of 15 to nearly 200, in two sections. In 2008-2009 a video version of BIOS543 was developed. It is taught by a variety of instructors; I acted as course master thru Spring 2011.
- BIOS 553/554 The applied biostatistical methods class for masters and doctoral candidates in Biostatistics. Taught in 2009-2010 academic year.
- Teacher of the year in the Department of Biostatistics on three separate occasions.

SERVICE

National Institutes of Health reviewer for the biostatistics portion of the following:

- P01 DE11549-06 (Bowen) in 2000,
- P60 Center Review (multiple proposals) in 1999,
- RFP-93-6R (multiple proposals) in 1994,
- P01 DE09835-01 (Stookey) in 1991, and site visit in 1990.

American Institute of Biological Sciences reviewer for the Office of Naval Research proposals in 1999, and 2000.

Associate Editor for the *Journal of Child and Family and Family Studies* 1991–2004.

Statistical Reviewer for the *Journal of Oral and Maxillofacial Surgery* 1987–2005.

Statistical Reviewer for the *Journal of Periodontology* 1998–present.

Statistical Reviewer for *Radiology* 2002–2007.

Statistical Reviewer for *Health Care Management Science* 2009–present.

CONSULTING

SAS programmer since 1971. Contract instructor for SAS Institute 10 years. Founder of the JMP Training Curriculum at SAS Institute.

Member of the Task Force on Design and Analysis of Clinical Trials in Dentistry 1990–93.

Expert witness on a sex/race discrimination suit before the U.S. District Court, Eastern District, Judge Britt.

Statistician and data manager in the Family Studies Program, Virginia Commonwealth University 1989–1991.

Director of Biostatistics for Insmmed, Inc. 1999–2000.

Statistical consulting in the preparation of new product application and research papers for InControl Inc.

Statistical consulting in the preparation of PLA for Becton Dickinson.

Statistical consulting in the preparation of an NDA for a Burroughs-Wellcome AIDS related anti-viral agent.

Data management consulting for A.H. Robins Pharmaceuticals.

Curriculum designer and Instructor for statistics and experimental design courses at Infineon Technologies, Richmond.

Statistical consulting on projects and grants in education, epidemiology, medicine, oral surgery, pediatrics, periodontology, and psychology at Virginia Commonwealth University.

THESIS COMMITTEES IN BIostatISTICS

Jessica McKinney Ketchum “A Normal Mixture Model with Random Effects for RR Interval Data” Dissertation Co-director. 2006

Leanne R. Campbell, “Futility Analysis with Covariables” 2004

Stacey Stoner Cofield, “Mixed-Effects Models with Variance Groups in *R* and the Trace Information Criteria (TRIC)” Dissertation Co-director. 2003.

Leslie A. Filicky, “Statistical Assessment of the Quality Control Process for Oligonucleotide Microarrays” Thesis director. 1999

Kristen McKenney Sale, “Predicting Low Density Lipoprotein Particle Size from the Traditional Lipid Profile” Thesis director. 2002

Tifani L. McCann, “Determining estimable functions in the general model” 1999

Claudia Carnevale Manning, "A comparison of neonatal and fetal death rates in growth-restricted pregnancies" 1998

Regina Brown, "A comparison of the power of the test of heterogeneity and of the test of significance of the effect size in the meta-analysis of epidemiological studies" 1995

John A. Bander, "A study of reliability of pocket depth and attachment level." Thesis director. 1991

John M. Myers, "Study of tests for homogeneity of variance." 1989

John C. Gunsolley, "False positive rates encountered in the detection of changes in periodontal attachment level." 1987

GRANTS AND CONTRACTS

Council on Community Services for Youth and Families Demonstration Project. Principal Investigator on the contract with the Department of Mental Health, Mental Retardation and Substance Abuse Services, Commonwealth of Virginia to provide statistical and data management consultation. 1 Feb 93 - 31 Dec 93. Total Budget: \$26,628. Renewed 1 Jan 94 - 30 June 94. Total Budget: \$10,270. Renewed 1 Jul 94 - 31 Dec 94. Total Budget: \$7,855.

Trust Fund Evaluation Project. Principal Investigator on the contract with the Department of Mental Health, Mental Retardation and Substance Abuse Services, Commonwealth of Virginia to provide statistical and data management consultation. 1 Sep 93 - 31 Aug 94. Total Budget: \$19,129. Renewed 1 Sep 94 - 31 Aug 95. Total Budget: \$18,099.

PUBLICATIONS

I have co-authored over 150 refereed journal publications or books. Web of science sum of the number of times cited: 1658, Average citations per item: 13.26. H-index: 22. [Citation report completed: 10 April 2009]

(in preparation)

C Prettyman, AM Best, S Lindauer, E Tufekci (accepted) "Self-ligating vs. conventional brackets as perceived by orthodontists" *The Angle Orthodontist*.

MJ Grap, CL Munro, PA Wetzel, AM Best, JM Ketchum, VA Hamilton, NY Arief, RH Pickler, CN Sessler (accepted) "Sedation in mechanically ventilated adults: Continuous measurement of physiologic and comfort outcomes" *American Journal of Critical Care*.

BJ Myers, MI Kuznetsova, N Ravindran, GM Lotze; AM Best, VH Mackintosh (accepted)
“Teasing and Bullying in Children of Incarcerated Mothers” *SRCD Monographs*.

MA Baechle, C Janus, AM Best (resubmitted) “Factors Affecting Aesthetic Treatment Choices
in Posterior Teeth”

C Janus, I Sbeih, AM Best (submitted) “A Comparison of Dentist’s Treatment Choices With The
Volume of Multi-Surface Restorations in Posterior Teeth” *General Dentistry*.

JW King, JA Niculescu, J Wallace, D Scanlan, AM Best (accepted) “Skeletal and dental changes
of mandibular symphyseal distraction osteogenesis with a hybrid distractor” *American
Journal of Orthodontics and Dentofacial Orthopedics*.

M de Wit, KB Miller, DA Green, JM Boehmler, HE Ostman, AM Best, SK Epstein (revisions)
“Observational study of ineffective triggering over the first three days of mechanical
ventilation” *Chest*.

Adler SP, Best AM, Marshall B, Vetrovec GW (accepted) Infection with Cytomegalovirus is not
associated with premature mortality. *Infectious Disease Reports*.

Burke B, Hamdan AH, Tufekci E, Shroff B, Best AM, Lindauer SJ (accepted) Perceptions of soft
tissue laser use in orthodontics: A survey of orthodontists, periodontists and general
dentists. *The Angle Orthodontist*.

Periodontics

1. ML Rufail, HA Schenkein, TE Koertge, AM Best, SE Barbour, JG Tew, R vanAntwerpen
(2007) “Atherogenic lipoprotein parameters in patients with aggressive periodontitis.”
Journal of Periodontal Research 42(6): 495-502.
2. HA Schenkein, AM Best, CN Brooks, JA Burmeister, JA Arrowood, MC Kontos, JG Tew
(2007) “Anti-cardiolipin and increased serum adhesion molecule levels in patients with
aggressive periodontitis” *Journal of Periodontology*. 78(3): 459-466.
3. SK Lanning, AM Best, RJ Hunt (2007) “Periodontal Services Rendered by General
Practitioners” *Journal of Periodontology* 78(5): 823-832.

4. CR Shin, J Moores, AM Best, JG Tew, HA Schenkein, SE Barbour, (2007) "Differential platelet-activating factor synthesis by monocytes and polymorphonuclear leukocytes from subjects with localized aggressive periodontitis." *Journal of Periodontal Research* 42(3): 202-11.
5. Salzberg TN, Overstreet BT, Rogers JD, Califano JV, Best AM, Schenkein HA. (2006) "C-Reactive Protein Levels in Patients With Aggressive Periodontitis." *Journal of Periodontology*; 77(6):933–9. Times cited: 1.
6. Schenkein HA, Berry CR, Burmeister JA, Brooks CN, Best AM, Tew JG (2004) Locally produced anti-phosphorylcholine and anti-oxidized low-density lipoprotein antibodies in gingival crevicular fluid from aggressive periodontitis patients. *J Periodontol* 75(1):146–53. Times cited: [4](#).
7. Califano, J.V., Chou, D., Lewis, J.P., Rogers, J.D., Best, A.M., Schenkein, H.A. (2004) "Antibody reactive with *Porphyromonas gingivalis* hemagglutinin in chronic and generalized aggressive periodontitis." *Journal of Periodontal Research*. 39(4):263-8. Times cited: [3](#).
8. Tanaka, S., Barbour, S.E., Best, A.M., Schenkein, H.A., and Tew, J.G. (2003) "Prostaglandin E2 mediated regulation of IgG2 via interferon gamma (IFN- γ)" *Journal of Periodontology* 74(6), 771–779.
9. Schenkein, H.A., Berry, C.R., Burmeister, J.A., Brooks, C.N., Barbour, S.E., Best, A.M. and Tew, J.G. (2003) "Anti-Cardiolipin Antibodies In Sera From Patients With Periodontitis" *Journal of Dental Research*. 82(11), 919–922.
10. Suzanne E. Barbour, Yuichi Ishihara, Mohammed Fakher, Salma Al-Darmaki, Timothy H. Caven, Christopher P. Shelburne, Al M. Best, Harvey A. Schenkein, and John G. Tew (2002) "Monocyte differentiation in localized juvenile periodontitis is skewed toward the dendritic cell phenotype," *Infection and Immunity*, 70(6), 2780–2786.
11. Ishihara, Y., Zhang, JB., Fakher, M., Best, A.M., Schenkein, H.A., Barbour, S.E., Tew, J.G. (2001) "Non-redundant Roles for IL-1 α and IL-1 β in Regulating Human IgG2," *Journal of Periodontology*.72(10), 1322–1329.
12. Michalowicz, B., Wu, T., Best, A.M., Albandar, H., Schenkein, H., Diehl, S. (2000) "Continuous Measures of Early-Onset Periodontitis for Genetic Research." poster at the International Association for Dental Research meeting April.

13. Califano, J.V., Schifferle, R.E., Gunsolley, J.C., and Best, A.M. (1999) "Antibody reactive with *Porphyromonas gingivalis* serotypes K1–K6 in adult and early onset periodontitis," *Journal of Periodontology*. 70:7, 730–735.
14. Schenkein, H.A., Gunsolley, J.C., Best, A.M., Harrison, M.T., Hahn, C-L., Wu, J. and Tew, J.G. (1999) "Antiphosphorylcholine antibody levels are elevated in humans with periodontal diseases." *Infection and Immunity*. 67(9), 4814-4818.
15. Gunsolley, J.C. and Best, A.M. (1992) "Considerations in the analysis of site-specific dichotomous responses," *Journal of Periodontal Research*, (27,4 Part 2), 352–355.
16. Schenkein, H.A., Best, A.M., and Gunsolley, J.C. (1991) "Influence of race on periodontal clinical neutrophil chemotactic responses," *Journal of Periodontal Research* 26(3 part 2), 272–275.
17. Best, A.M., Burmeister, J.A., Gunsolley, J.C., Brooks, C.N., and Schenkein, H.A. (1990) "Reliability of attachment loss measurements in a longitudinal clinical trial," *Journal of Clinical Periodontology*, 17, 564–569.
18. Gunsolley, J.C. and Best, A.M. (1988) "Change in attachment loss," *Journal of Periodontology*. 59, 450–456.
19. Moore, L.V.H., Moore, W.E.C., Cato, E.P., Smibert, R.M., Burmeister, J.A., Best, A.M. and Ranney, R.R. (1987) "Bacteriology of Human Gingivitis," *Journal of Dental Research* 66. Times cited: [160](#).
20. Gunsolley, J.C., Burmeister, J.A., Tew, J.G., Best, A.M. and Ranney, R.R. (1987) "Relationship of serum antibody to attachment loss patterns in young adults with juvenile periodontitis or generalized severe periodontitis," *Journal of Periodontology*, 58, 314–321.
21. Gunsolley, J.C., Burmeister, J.A., Tew, J.G., Best, A.M., and Ranney, R.R. (1987) "Relationship of serum antibody to attachment level patterns in young adults with juvenile periodontitis or generalized severe periodontitis," *Journal of Periodontology*, 58(5), 314–320.
22. Ranney, R.R., Best, A.M., Breen, T.J., Moore, W.E.C. and Moore, L.V.H. (1987) "Bacterial flora of progressing periodontitis lesions," Paper presented at 7th. International Conference of Periodontal Research, Ittingen, Switzerland, September 8–11, 1986. and *Journal of Periodontal Research*, 22.

23. Moore, L.V.H., Moore, W.E.C., Cato, E.P., Smibert, R.M., Burmeister, J.A. Burmeister, Best, A.M., and Ranney, R. R. (1987) "Bacteriology of Human Gingivitis," *Journal of Dental Research*, 66(5), 989–995.
24. Tew, J.G., Marshall, D.R., Moore, W.E.C., Best, A.M., Palcanis, K.G., and Ranney, R.R. (1985) "Serum antibody reactive with predominant organisms in the subgingival flora of young adults with generalized severe periodontitis," *Infection and Immunity*, 48(2), 303–311.
25. Kunihiro, D.M., Caine, F.A., Palcanis, K.G., Best, A.M., and Ranney, R.R. (1985) "A clinical trial of phenoxymethyl penicillin for adjunctive treatment of juvenile periodontitis," *Journal of Periodontology*, 56, 352–358.
26. Burmeister, J.A., Best, A.M., Palcanis, K.G., Caine, F.A. and Ranney, R.R. (1984) "Localized juvenile periodontitis and generalized severe periodontitis: clinical findings," *Journal of Clinical Periodontology*, 11, 181–192.

Oral and Maxillofacial Surgery

27. Mohammad AE, Best AM, Laskin DM (2011) "Attitudes and opinions of residency directors and residents about the importance of research in oral and maxillofacial surgery residencies." *Journal of oral and maxillofacial surgery*. 69:2064-2069.
28. AA Sarraf, AO Abubaker, AM Best, DM Laskin (2011) "Characteristics of OMFS residencies that result in graduating residents entering academic positions" *Journal of Oral and Maxillofacial Surgery*. 69: 2271.
29. CC Burgoyne, JA Giglio, SE Reese, AP Sima, DM Laskin (2010) "The efficacy of a topical anesthetic gel in the relief of pain associated with localized alveolar osteitis" *Journal of Oral and Maxillofacial Surgery*. 68(1): 144-148. PMID: 20006169.
30. F Rostami, A Ahmed, AM Best, DM Laskin (2010) "The changing personal and professional characteristics of women in oral and maxillofacial surgery" *Journal of Oral and Maxillofacial Surgery*. 68(2): 381-385. PMID: 20116711.
31. J Truitt, RA Strauss, A Best (2009) "Centric relation: a survey study to determine whether a consensus exists between oral and maxillofacial surgeons and orthodontists" *Journal of Oral and Maxillofacial Surgery* 67(5): 1058–61. PMID: 19375018

32. MJ Nussbaum, DM Laskin, AM Best (2008) "Closed versus Open Reduction of Mandibular Condylar Fractures in Adults: A Meta-Analysis" *Journal of Oral and Maxillofacial Surgery*. 66: 1087–92.
33. Laskin, D.M. and Best, A.M. (2003) "Discussion of Meta-analysis of Surgical Treatments for Temporomandibular Disorders" *Journal of Oral and Maxillofacial Surgery*.
34. Laskin, D.M., Lesny, R.J. and Best, A.M. (2003) "The candidate viewpoint of the OMFS residency matching process." *Journal of Oral and Maxillofacial Surgery*, 61(2), 228–233.
35. Laskin, D.M., Ellis, J.A. and Best, A.M. (2002) "Public recognition of specialty designations." *Journal of Oral and Maxillofacial Surgery*. 60 (10), 1182–1185.
36. Laskin, J.M., and Best, A.M. (2000) "Changing trends in the management of maxillofacial injuries in the United States," *Journal of Oral and Maxillofacial Surgery*. 58(2), 207–215.
37. Laskin, J.M., and Best, A.M. (1988) "Current trends in the treatment of maxillofacial injuries in the United States," *Journal of Oral and Maxillofacial Surgery*, 46, 595–602.
38. Best, A.M. (1987) "Discussion: The application of decision analysis to evaluate the need for extraction of asymptomatic third molars," *Journal of Oral and Maxillofacial Surgery*, 45, 864.

Orthodontics

39. Henson ST, Lindauer SJ, Gardner WG, Shroff B, Tufekci E, Best AM. (2011) Influence of dental esthetics on social perceptions of adolescents judged by peers. *American Journal of Orthodontics and Dentofacial Orthopedics*;140:389-395.140.
40. Holmes PB, Shroff B, Best AM, Lindauer SJ (2010) "Influence of gender on office staff management in orthodontics." *Angle Orthodontics* 80(6):1150-4. PMID: 20677968.
41. ND Mollov, SJ Lindauer, AM Best, B Shroff and E Tufekci (2010) "Patient attitudes toward retention and perceptions of treatment success." *Angle Orthodontics* 80(4): 468-73. PMID: 20482350.
42. GG Coleman, SJ Lindauer, E Tüfekçi, B Shroff, and AM Best (2007) "Influence of chin prominence on esthetic lip profiles preferences" *American Journal of Orthodontic Dentofacial Orthopedics* 132(1): 46-42.

43. SJ Lindauer, DM Laskin, E Tüfekçi, AM Best, RS Taylor, and BJ Cushing (2007) "Orthodontists' and Surgeons' opinions on the role of third molars as a cause of dental crowding." *American Journal of Orthodontic Dentofacial Orthopedics* 132(1): 43-8.
44. DL Squire, AM Best, SJ Lindauer, and DM Laskin (2006) "Determining the limits of orthodontic treatment for overjet, overbite, and transverse discrepancy: A pilot study" *American Journal of Orthodontics and Dentofacial Orthopedics*. 129(6), 804–8.
45. MD Payne, SJ Lindauer, B Shroff, AM Best, and E. Tüfekçi (2006) "Factors Influencing Applicant Ranking of Orthodontic Programs" *The Angle Orthodontist* 76(1), 84–91.
46. Lindauer, S.J., Peck, S.L., Tufekci, E. and Best, A.M. (2003) "The Crisis in Orthodontic Education: Goals and perceptions." *American Journal of Orthodontics and Dentofacial Orthopedics*, 124: 480–487.

Pedodontics

47. TH Brickhouse, FH Farrington, AM Best, CW Ellsworth (2009) "Barriers to dental care for children with autism spectrum disorders" *Journal of Dentistry for Children*. 76(3), 165–170. PMID: 19941759
48. TH Brickhouse, JH Unkel, MD Webb, AM Best (2008) "Articaine use among general and pediatric dentists" *Pediatric Dentistry*. 30(6): 516–521.
49. TH Brickhouse, JH Unkel, I Kancitis, AM Best, RD Davis (2008) "Infant oral health care: A survey of general dentists, pediatric dentists, and pediatricians in Virginia" *Pediatric Dentistry*. 30(2): 147-53.
50. Brickhouse TH, Rozier RG, Slade GD(2008) "Effects of enrollment in Medicaid versus the state children's health insurance program on kindergarten children's untreated dental caries." *American Journal of Public Health*. 98:876-881.
51. FC Pettinato, FH Farrington, A Mourino, AM Best, TH Brickhouse (2004) "Rural vs. Urban Analysis of Dental Procedures Provided to Virginia Medicaid Recipients" *Pediatric Dentistry*. 26(5), 440–444.
52. Myers, G.R., Maestrello, C.L., Mourino, A.P., and Best, A.M. (2004) "Effect of submucosal Midazolam on behavior and physiologic response when combined with oral Chloral Hydrate and nitrous oxide sedation." *Pediatric Dentistry*, 26(1), 37–43. Times cited: [4](#).

53. Gokli, M.A., Wood, A.J., Mourino, A.P., Harrington, F.H. and Best, A.M. (1994) “Hypnosis as an adjunct to the administration of local anesthetic in pediatric patients,” *Journal of Dentistry for Children*, July-August, 272–275.

Endodontics, Prosthodontics, General Dentistry

54. DL Hadley, KJ Replogle, JC Kirkam and AM Best (2008) “A comparison of five radiographic systems to D-speed film in the detection of artificial bone lesions.” *Journal of Endodontics* 34(9): 1111–4.
55. CE Janus, JW Unger, AM Best (2006) “Survival Analysis of Complete Veneer Crowns vs. Multi-surface Restorations: A Dental School Patient Population” *Journal of Dental Education*. 70(10), 1098–1104.
56. Hahn CL, Best AM. (2006) “The pulpal origin of immunoglobulins in dentin beneath caries: an immunohistochemical study” *Journal of Endontology*; 32(3):178-82.
57. Lanning SK, Best AM, Temple HJ, Richards PS, Carey A, McCauley LK. (2006) “Accuracy and consistency of radiographic interpretation among clinical instructors using two viewing systems.” *Journal of Dental Education*; 70(2):149-59.
58. Lanning SK, Best AM, Temple HJ, Richards PS, Carey A, McCauley LK. (2006) “Accuracy and consistency of radiographic interpretation among clinical instructors in conjunction with a training program.” *Journal of Dental Education*; 70(5):545-57.
59. Hahn CL, Best AM, Tew JG (2004) Comparison of type 1 and type 2 cytokine production by mononuclear cells cultured with *streptococcus mutans* and selected other caries bacteria. *J Endod* 30(5):333–8. Times cited: [4](#).
60. Bogacki, R.E. and Best, A.M. (2004) “Equivalence study of dental anatomy instructional software” *Journal of Dental Education*. August 867–871.
61. Schenkein, H.A. and Best A.M. (2001) Factors considered by new faculty in their decision to choose careers in academic dentistry. *Journal of Dental Education*, 65(9), 832–840.

Immunology

62. MA Harmon, JG Tew, AM Best, CL Hahn (2009) “Mature dendritic cells in inflamed human pulps beneath deep caries” *Oral Surgery, Oral Medicine, Oral Pathology, Oral Radiology and Endodontics*. 107(5): 727–32. PMID:19201217

63. Y Wu, ME El Shikh, RM El Sayed, AM Best, AK Szakal, JG Tew (2009) “IL-6 produced by immune complex-activated follicular dendritic cells promotes germinal center reactions, IgG responses, and somatic hypermutation” *International Immunology*. 21(6), 745–56. PMID:19461124. Citations 2.
64. Y Wu, S Sukumar, ME Shikh, AM Best, AK Szakal, JG Tew (2008) “Immune complex-bearing follicular dendritic cells deliver a late antigenic signal that promotes somatic hypermutation” *Journal of Immunology*, 180(1): 281-90.
65. CL Hahn, AM Best, JG Tew (2007) “Rapid tissue factor induction by oral streptococci and monocyte-IL-1beta” *Journal of Dental Research* 86(3): 255-9
66. Al-Darmaki S, Knightshead K, Ishihara Y, Best A, Schenkein HA, Tew JG, Barbour SE (2004) Delineation of the role of platelet-activating factor in the immunoglobulin G2 antibody response. *Clin Diagn Lab Immunol* 11(4):720–8.
67. Huang, D, Liu, X, Plymate, SR, Idowu, M, Grimes, M, Best, AM, McKinney, JL, and Ware, JL. (2004) “Proteomic identification of 14-3-3 sigma as a common component of the androgen receptor and the epidermal growth factor receptor signaling pathways of the human prostate epithelial cell line M12” *Oncogene*. 23(41), 6881–9. Times cited: [8](#).
68. Hahn, C-L, Best, A.M. and Tew, J.G. (2000) “Cytokine induction by *Streptococcus mutans* and pulpal pathogenesis. *Infection and Immunity*. 68(12): 6785–6789.
69. Ishihara, Y., Zhang, Ji-Bo, Quinn, S.M., Schenkein, H.A., Best, A.M., Barbour, S.E., and Tew, J.G. (2000) “Regulation of Immunoglobulin G2 production by prostaglandin E2 and platelet-activating factor.” *Infection and Immunity*. 68(3), 1563–1568.

Virology

70. IR Wilms, AM Best, SP Adler (2008) “Cytomegalovirus Infections among African-Americans” *BMC Infectious Diseases*. 8(1) 107.
71. R La Torre, G Nigro, AM Best, SP Adler (2006) “Placental Enlargement in Women with a Primary Maternal Cytomegalovirus Infection is Associated with Fetal and Neonatal Disease” *Clinical Infectious Diseases*. 43(8): 994–1000. Citations: 4.

72. Giovanni Nigro, Stuart P. Adler, Renato La Torre, Al M. Best (2005) “Passive maternal immunization during pregnancy for congenital Cytomegalovirus infection” *New England Journal of Medicine*. 353(13), 1350–62. Times cited: [49](#).
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Selected Papers, Presentations and Reports

- M. BAECHLE, A.M. BEST, and C. JANUS, "Dentists' Attitudes Regarding Diagnostic Codes in Dentistry" AADR Annual Meeting, 2011
- F Rostami, A Ahmed, AM Best, D Laskin "Changing Demographics of Women in Oral and Maxillofacial Surgery" AADR Annual Meeting, March 3-6, 2010.
- D Laskin, AE Mohammad, AM BEST "Research in Oral and Maxillofacial Surgery Residencies: Attitudes and Opinions," AADR Annual Meeting, March 3-6, 2010.
- N Mollov, SJ Lindauer, and AM BEST, "Compliance and Retention in the Orthodontic Patient," AADR Annual Meeting, March 3-6, 2010.
- T Brickhouse, R Turner, A. Zima, and AM Best "Expectant Mothers Readiness and Knowledge of Infant Oral Health" AADR Annual Meeting, March 3-6, 2010.

JM Ketchum, AM Best, EH Sheldon (2008) "Team-based Learning in Graduate Statistical Methods Course for Biomedical Researchers" Joint Statistical Meetings, contributed paper presented 5 August 2008.

AM Best, JM Ketchum, EH Sheldon (2008) "Using the Motivation of Graduate Students to Write Defensible Theses to Teach Biostatistical Methods" Joint Statistical Meetings, contributed paper presented 5 August 2008.

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Grap, MJ, Sessler, CN, Best, AM, Wetzel, P, Hamilton, A, Mellott, K, Munro, CL (2007) "Physiologic stability and patient comfort during varying levels of sedation in mechanically ventilated adults. 8th Annual Interdisciplinary Research Conference: Transforming Healthcare through Research, Education and Technology, Dublin, Ireland, November.

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S.E. BARBOUR, J. MOORES, A.M. BEST, H.A. SCHENKEIN, and J.G. TEW (2005) "Altered Platelet-activating Factor Synthesis in Ionophore-Activated LAgP Monocytes" Paper #63944 at the IADR, Baltimore, March 9-12.

- G.G. COLEMAN, S.J. LINDAUER, E. TUFEKCI, B. SHROFF, and A.M. BEST (2005) "Effect of Overall Facial Convexity on Lip Profile Preferences" Paper #46581 at the IADR, Baltimore, March 9-12.
- M.D. PAYNE, S.J. LINDAUER, B. SHROFF, A.M. BEST, and E. TUFEKCI (2005) "Factors Influencing Applicant Ranking of Orthodontic Programs" Paper #59496 at the IADR, Baltimore, March 9-12.
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- Pickler, RH, Reyna, BA, Wetzel P, Best A, Gutcher G, Amankwaa L (2004) "Heart rate variability of preterm infants during bottle feeding" Poster presented at Southern Nursing Research Conference, Louisville KY, February 2004.
- Sonya R. Lawson, Al M. Best, J. Dennis Hoban, Cynthia Heldberg (2003) "Using AAMC graduation questionnaire data to predict primary care residence choice" Poster presentation at AAMC meeting, 15 October 2003.
- Dumur CI, Best A, Garrett CT, Nasim S, Wilkinson DS, Ferreira-Gonzalez A "Quality control and quality assurance in microarray data analysis" Poster presented at the AMP meeting.
- H.A. Schenkein, C.R. Berry, A.M. Best, S.E. Barbour, J.G. Tew (2003) Anti-cardiolipin and anti-b2-glycoprotein I in periodontitis. Paper presented at the American Association of Dental Research.
- Cynthia Heldberg, Sonya Lawson, Al M. Best, J. Dennis Hoban (2002) "Predictors of primary care residency choice" Poster presented at the AAMC meeting in November.

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Lehman, A.A. and Best, A.M. (1993) "Analysis of the Cereal Data Using JMP," Poster presented at the American Statistical Association meeting, August, 1993.

Sessler, C.N., Rutherford, L., Best, A.M., Hart, R., Levenson, J. (1992) "Agitation in a medical intensive care unit: Prospective analysis of incidence & risk factors," *Chest* 102(2), 119S.

Best, A.M. (1992) "Bacteriology and periodontal diseases: Some methodological considerations," Paper presented at the Task Force on Design and Analysis meeting, November, 1992.

Case, S.M., Templeton, B., Samph, T. and Best, A.M. (1992) "Comparison of observation-based and chart-based scores derived from standardized patient encounters," Paper presented at the Ottawa Conference on Approaches to the Assessment of Clinical Competence, Dundee, Scotland, 1–3 September.

- Parmelee, D.X., Cohen, R., Best, A.M., Brunk, M., Cassell, S., Dyson, F., Nemil, M., Purcell, P. and Reid, S. (1990) "A study of children and youth admitted to two public psychiatric hospitals: Issues of access to a continuum of care," Commonwealth Institute for Child and Family Studies and Virginia Treatment Center for Children Research Report No. 2.
- Best, A.M., Gunsolley, J.C., Burmeister, J.A., and Schenkein, H.A. (1989) "Inter-examiner reproducibility of attachment level measurements: Calibration trials vs. longitudinal studies," Paper presented at the American Association for Dental Research Conference.
- Best, A.M. (1988) "The SAS System on the Apple Macintosh II under DOS: The best of both worlds," Paper presented at the meetings of the SAS Users' Group International, Orlando, Florida, March 27–30.
- Breen, T.J., Best, A.M., Burmeister, J.A. (1988) "Multivariate statistical methods for the analysis of subgingival microflora," Paper presented at the American Association for Dental Research Conference.
- Laskin, D.M. and Best, A.M.(1988) "Treatment of maxillofacial injuries in the United States (1987)," Paper presented at the American Association for Dental Research Conference.
- Breen, T.J., Best, A.M., Ranney, R.R. and Burmeister, J.A. (1987) "Statistical methods for the analysis of subgingival microflora," Paper presented at the International Association for Dental Research Conference. Also presented as: "Genetic vs. environmental components of variation of periodontal flora: A twin study," Paper presented at the Task Force on Design and Analysis meeting.
- Ranney, R.R., Zambon, J.J., Best, A.M. and Burmeister, J.A. (1987) "H. actinomycetem-comitans in early onset periodontitis families," Paper presented at the International Association for Dental Research Conference.
- Williams, D.D. and Best, A.M. and Burmeister, J.A. (1987) "Computer assisted direct entry of clinical periodontal data," Paper presented at the International Association for Dental Research Conference.
- Kaugars, C.C., Schenkein, H.A., Palcanis, K.G., and Best, A.M. (1987) "Effects of subgingival irrigation with Viadent on human subgingival plaque and chronic periodontitis," Paper that was to be presented at the International Association for Dental Research Conference. The paper was pulled from publication by AADR because of a threatened lawsuit.

- Best, A.M. (1986) "The SAS system on the Apple Macintosh: What should the display manager look like?" Paper presented at the meetings of SAS Users' Group International, Atlanta, Georgia. [outstanding contributed paper award]
- Best, A.M., Burmeister, J.A., Palcanis, K.G. and Ranney, R.R. (1986) "Interpreting increases in attachment level," International Association for Dental Research abstract 524.
- Williams, D.D. and Best, A.M. (1986) "Chairside data-entry for periodontal measurements using the Apple Macintosh," International Association for Dental Research abstract 336.
- Best, A.M., Breen, T.J., Ranney, R.R., Holdeman, L.V. and Moore, W.E.C. (1985) "Bacteriology of experimental gingivitis in young adults: A reanalysis," International Association for Dental Research abstract 1015.
- Gunsolley, J.C. and Best, A.M. (1985) "Clinical parameters as predictors of destructive periodontal disease activity: A reanalysis," International Association for Dental Research abstract 1660.
- Marshall, D., Ranney, R.R., Moore W.E.C., Best, A.M., and Tew, J.G. (1984) "Serum antibody titers to predominant organisms in severe periodontitis," International Association for Dental Research abstract 175.
- Kunihira, D.M., Palcanis, K.G., Caine, F.A., Best, A.M. and Ranney, R.R. (1984) "Trial of adjunctive use of penicillin in juvenile periodontitis," International Association for Dental Research abstract 868.
- Best, A.M., Carchman, R.A., Debski, B.F., Burmeister, J.A. and Ranney, R.R. (1983) "Incidence of depressed PMN chemotaxis in juvenile and severe periodontitis," International Association for Dental Research abstract 819.
- Ranney, R.R., Best, A.M. and Carchman, R.A. (1983) "Relationship between antibody to *Actinobacillus* and depressed PMN chemotaxis," International Association for Dental Research abstract 821.
- Claytor, C.R., Allen, A.S. and Best, A.M. (1983) "A proposal for evaluating the SAS skills of potential employees," Paper presented at the meetings of the SAS Users' Group International, New Orleans, Louisiana, January 16–19. [outstanding contributed paper award]

- Best, A.M. and Claytor, C.R. (1981) "Implementing a SAS census data collection system," Paper presented at the meetings of SAS Users' Group International, Lake Buena Vista, Florida, February 8–11.
- Allen, A.S. and Best, A.M. (1981) "The Design of a SAS test score management system for Richmond Public Schools. Paper to be presented at the meetings of SAS Users' Group International, Lake Buena Vista, Florida, February 8–11.
- Jordan, R.D., Moser, P.H., Gleason, M.V., Samph, T. and Best, A.M. (1980) "Psychological, cognitive and affective correlates of two experimental examinations of medical student interpersonal skills," Paper presented at the meeting of the Eastern Educational Research Association, Norfolk, Virginia.
- Best, A.M. and Pedersen, N.G. (1980) "A computerized system for projecting student membership in school systems experiencing dramatic changes in their student assignment plan," Paper presented at the meeting of the Association for Educational Data Systems, St. Louis, April 14.
- Samph, T.S. and Best, A.M. (1979) "An experimental videotape examination of medical student interpersonal skills," Paper presented at the meeting of the American Educational Research Association, San Francisco, April 9.
- Templeton, B., Best, A.M., Samph, T.S., and Case, S.M. (1979) "Short-term outcomes achieved in interviews by medical students," Paper presented at the meeting of the American Educational Research Association, San Francisco, April 9.
- Best, A.M. and Samph, T.S. (1979) "An experimental paper-and-pencil examination of medical student interpersonal skills," Paper presented at the meeting of the American Educational Research Association, San Francisco, April 9.
- Case, S.M., Samph, T.S., Best, A.M., and Templeton, B. (1979) "The generalizability of outcome measures to evaluate medical student interview performance," Paper presented at the meeting of the Eastern Educational Research Association, Charleston, S.C., February 22.
- Best, A.M., Samph, T.S., Jordan, R.D., Moser, D.L., and Templeton, B. (1979) "Two experimental examinations of student interpersonal skills," Paper presented at the meeting of the Eastern Educational Research Association, Charleston, S. C., February 22.

- Best, A.M. (1978) "Nonmetric multidimensional scaling: An index of the partial precision of a scaling configuration," Unpublished Master's thesis, University of North Carolina, Chapel Hill.
- Templeton, B., Samph, T.S., and Best, A.M. (1978) "Development of Techniques to assess physician interpersonal skills," Paper presented at the meeting of the American Board of Medical Specialties, Chicago, March 15.
- Helms, R.W. and Best, A.M. (1977) "Really general linear multivariate model analysis using PROC MATRIX and the UNC GLMM macro," Paper presented at the meeting of SAS Users' Group International, New Orleans.
- Best, A.M. (1977) "PPP3D: Perspective plotting of points in three dimensions," L.L. Thurstone Psychometric Laboratory Research Memorandum No. 48.
- Best, A.M. (1975) "The comedians' world: Three methods of structural analysis for free association data," Paper presented at the meeting of the Southeastern Psychological Association, Atlanta, March.
- Best, A.M. (1974, 1975) *Survey of Courses*, Chapel Hill: Course/Teacher Evaluation Commission, August, 1974; April & October 1975.
- Best, A.M. (1971) *Student Guide to Courses and Teachers*, Knoxville. Student Senate Publications.

SCOUTING

Eagle Scout. Troop 241, Memphis TN. Order of the Arrow, 1960–67.
Assistant Scoutmaster, Boy Scout Troop in Chapel Hill NC, 1975.
Participant (Bobwhite), Occoneechee Council Wood Badge SE-55, 1975.
Scoutmaster, Boy Scout Troop in Drexel Hill PA, 1976-78.
Assistant Scoutmaster, Boy Scout Troop 700, Ashland VA, 1990–Sep2004.
01 Leader, Senior Girl Scout Troop 43, Ashland VA, 1999–2001.
Associate Advisor, Venture Crew 500, Richmond VA, 1999–2004.
Patrol Leader (Bear patrol), Wood Badge course SR-267, August–October 1998.
Ticket completed, January 2000. Scouter's Training Award
Crew Advisor, Philmont Scout Ranch, June 1994.
Crew Advisor, Maine T3 Canoe Base, July 1997.
Crew Advisor, Florida Sea Base, Out-island Adventure, July 1999.
Crew Guide, Powder Horn High Adventure Skills Resource Management Course. Southern
Region Area May 2001.
Crew Advisor, Charles L. Sommers Canoe Base, Northern Tier National High Adventure Base,
July 2001.
Cross and Flame (Scouter's religious award) from Chamberlayne Heights United Methodist
Church, Feb 2004.
Troop Guide, Wood Badge course SR-604, April–May 2004.
Crew Advisor, Florida Sea Base, Coral Reef Sailing, July 2004
Scoutmaster, Boy Scout Troop 700, Ashland VA, Sept 2004–2010. Committee member since
then.
Crew Advisor, Charles L. Sommers Canoe Base, Northern Tier National High Adventure Base,
July 2005.
Assistant Scoutmaster-Troop Guides, Wood Badge course SR-769, April–May 2006.
Crew Advisor, Atikokan Canoe Base, Northern Tier National High Adventure Base, June 2007.
National President's Scoutmaster Award of Merit, Feb 2008.
Assistant Scoutmaster-Program, Wood Badge course SR-917, Sept–Oct 2008.
Cardinal District Award of Merit, April 2008.
Instructor, Wood Badge course SR-966, Sept–Oct 2009.
Silver Beaver, Heart of Virginia Council, February 2010.
Scoutmaster, National Jamboree Troop 1702, July-Aug 2010.
Course Director, Wood Badge course S7-602-11-1, March-April 2011.
Venturing Leadership Award, March 2011.

Other:

Camping Merit Badge program at Cardinal Merit Badge weekend 1997-2008.

Registered Scouter: 2yr Pennsylvania, 1yr North Carolina, since September 1990 in HOV.

Instructor: Trainers Development Conference (now Trainers EDGE) since 1999.

Instructor: Scoutmaster Specific Adult Leader Training, and Outdoor Leader Skills Courses since 2003.

Head Monkey, Heart of Virginia Council Encampment, October 2007.

Instructor, College of Commissioner Science, 2008

Member of the Camping Program Committee of Baltimore Yearly Meeting (that oversees the Quaker camping programs) 2005-2007.