

## FACULTY CURRICULUM VITAE

### 1. PERSONAL INFORMATION:

Alvin M. (Al) Best, III, Ph.D., NREMT-B  
12467 Ashland Vineyard Ln, Ashland VA 23005  
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### 2. LICENSURE:

#### 2.1 State issuing license and the license number.

Emergency Medical Technician, Office of Emergency Medical Services, Department of Health, Commonwealth of Virginia certificate number B201800849. Expires 9/30/2022.  
EMT-B, National Registry of Emergency Medical Technicians registry number E3416942. Expires 3/31/2021.

#### 2.2 Name of Board certification and date. n/a

### 3. EDUCATION:

EMT curriculum, J Sargeant Reynolds Community College, Richmond VA USA  
PhD (1984) Biostatistics, Medical College of Virginia at Virginia Commonwealth University, Richmond, VA USA  
MA (1978) Quantitative Psychology, L.L. Thurstone Psychometric Laboratory, University of North Carolina, Chapel Hill, NC USA  
BS (1973) Mathematics and Psychology, University of Tennessee, Knoxville, TN USA.  
Recipient of the Torchbearer award.

### 4. MILITARY SERVICE RECORD: None.

### 5. POSTDOCTORAL TRAINING OR SPECIAL EXPERIENCE:

Steven Senn's three-day course on "Statistical Issues in Drug Development", 2008  
Ron Helm's three-day course on "The Joy of Modeling: the Mixed Linear Model", 2005  
Chris Genning's semester course on "Categorical Data Analysis", 1998

### 6. ACADEMIC APPOINTMENTS OR OTHER SIGNIFICANT WORK EXPERIENCE:

8/18–present: retired. Professor Emeritus, Virginia Commonwealth University. Affiliate Professor, Departments of Emergency Medicine and Biostatistics, School of Medicine, Virginia Commonwealth University.  
3/11–7/18: Director of Faculty Research Development and Professor (Associate Professor until 2013), Department of Periodontics, School of Dentistry, Virginia Commonwealth University  
7/13–7/18: Professor, Office of Research, School of Dentistry; and Affiliate Professor, Department of Biostatistics, School of Medicine, Virginia Commonwealth University.  
9/84–6/13: Associate Professor, Department of Biostatistics, Medical College of Virginia, Virginia Commonwealth University (Assistant Professor until 1993).  
7/93–8/18: Affiliate Associate Professor, Department of Psychiatry, Commonwealth Institute for Child and Family Studies, and Virginia Treatment Center for Children, School of Medicine, Virginia Commonwealth University.  
9/00–3/11: Affiliate Associate Professor, School of Dentistry, Virginia Commonwealth University.  
7/81–7/93, Clinical Research Center for Periodontal Diseases, School of Dentistry, Virginia

1/98–8/12: Commonwealth University. Statistician with responsibility for experimental design, data management, and statistical analysis.  
8/79–7/81: Community Data Analyst. Planning and Development Department, Richmond Public Schools. SAS installation representative.  
7/77–8/79: Research Associate. Research and Development Department, National Board of Medical Examiners, Philadelphia PA.  
8/76–6/77 Data Manager and Assistant Statistician. Biostatistics Department, University of North Carolina, Chapel Hill and the Instituto de Nutrition de Centro America y Panama, Guatemala.  
6/76–7/76 Intern in Research, Educational Testing Service, Princeton, New Jersey.  
8/73–5/76 Research Assistant. L.L. Thurstone Psychometric Laboratory, Psychology Department, University of North Carolina.  
1/71–6/73 Assistant to the Director. Learning Research Center, University of Tennessee, Knoxville.

## **7. MEMBERSHIP – SCIENTIFIC, HONORARY AND PROFESSIONAL SOCIETIES:**

Member, American Statistical Association, 1982-2015.  
Member, Task Force on Design and Analysis in Oral Health Research, 1990-93 and Board Member 2011-present.

## **8. MEMBERSHIP IN COMMUNITY ORGANIZATIONS:**

### **8.0 Boy Scouts of America**

Active in Boy Scouting with the Heart of Virginia Council, BSA continuously since 1990. The significant volunteer services are described according to geographic areas. I have also served 3 types of Scout units: Boy Scout Troops, Venture Crews, and a Girl Scout Troop.

#### **8.0.0 National level:**

EMT, Camp Bravo Medical Staff, World Scout Jamboree

#### **8.0.1 Council level:**

Youth Protection Champion, 2016-2019.

Assistant Scoutmaster-Logistics, Wood Badge course S7-602-16, March–April 2016.

Council Training Chair, July 2013–2015

Mentor, Wood Badge course S7-602-12, March–April 2013.

Course Director, Wood Badge course S7-602-11-1, March–April 2011.

Scoutmaster, National Jamboree Troop 1702, 2010.

Silver Beaver, February 2010.

Instructor, Wood Badge course SR-966, Sept–Oct 2009.

Assistant Scoutmaster-Program, Wood Badge course SR-917, Sept–Oct 2008.

Instructor, College of Commissioner Science, 2008, 2010.

Monkey Bridge Leader, Heart of Virginia Council Encampment, October 2007.

Assistant Scoutmaster-Troop Guides, Wood Badge course SR-769, April–May 2006.

Troop Guide, Wood Badge course SR-604, April–May 2004.

Crew Advisor, Philmont Scout Ranch, June 1994.

Patrol Leader (Bear patrol), Wood Badge course SR-267, August–October 1998.

Ticket completed, January 2000. Scouter's Training Award

Instructor: Trainers Development Conference (now Trainers EDGE) 1999–2011.

#### **8.0.2 District:**

Cardinal District Award of Merit, April 2008.

Camping Merit Badge program at Cardinal Merit Badge weekend 1997-2008.  
Training Chair and Instructor: Scoutmaster Specific Adult Leader Training, and Outdoor Leader Skills Courses 2003–2011.

### **8.0.3 Unit:**

#### **Boy Scouts**

Crew Advisor, Charles L. Sommers Canoe Base, Northern Tier National High Adventure Base, August 2017.

Committee Member, Boy Scout Troop 700, Ashland VA, 2009–present.

National President’s Scoutmaster Award of Merit, Feb 2008.

Crew Advisor, Atikokan Canoe Base, Northern Tier National High Adventure Base, June 2007.

Crew Advisor, Charles L. Sommers Canoe Base, Northern Tier National High Adventure Base, July 2005.

Scoutmaster, Boy Scout Troop 700, Ashland VA, Sept 2004–2009.

Assistant Scoutmaster, Boy Scout Troop 700, Ashland VA, 1990–Sep2004.

Crew Advisor, Florida Sea Base, Coral Reef Sailing, July 2004

Crew Advisor, Florida Sea Base, Out-island Adventure, July 1999.

Crew Advisor, Maine T3 Canoe Base, July 1997.

Scoutmaster, Boy Scout Troop in Drexel Hill PA, 1976-78.

Assistant Scoutmaster, Boy Scout Troop in Chapel Hill NC, 1975.

Participant (Bobwhite), Occoneechee Council Wood Badge SE-55, 1975.

Eagle Scout. Troop 241, Memphis TN. Order of the Arrow, 1960–67.

#### **Venturing**

Venturing Leadership Award, 2010.

Committee Chair, Venture Crew 7, Ashland VA, 2008–2014.

Associate Advisor, Venture Crew 500, Richmond VA, 1999–2004.

Cross and Flame (Scouter’s religious award) from Chamberlayne Heights United Methodist Church, Feb 2004.

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.

#### **Girl Scouts**

01 Leader, Senior Girl Scout Troop 43, Ashland VA, 1999–2001.

### **8.1 Hanover County Virginia**

Volunteer EMT at Chickahominy Volunteer Fire Company, Station 10, 10414 S Leadbetter Rd, Ashland VA 23005. Since February 2018.

Member at Large (elected), Board Member, Chickahominy Volunteer Fire Company, Hanover County, Virginia.

## **9. SPECIALS, FELLOWSHIPS AND OTHER HONORS:**

### **9.1 Awards.**

Omicron Kappa Upsilon, National Dental Honor Society, 2016.

Outstanding Departmental Teacher in the VCU School of Medicine in 2001, 2003, and 2009.

Torchbearer award, University of Tennessee, Knoxville in 1972.

President of the Academic Council, University of Tennessee, Knoxville in 1969-70.

Eagle Scout, 1967

## **9.2 Fellowships.** none

## **9.3 External grants or contracts.**

The Effects of Antimicrobials on Tooth Extractions. Co-investigator (PI: J Gunsolley) Delta Dental Plans Association, Amount: \$97,360, 10% 2010-2011.

Antiphospholipids and Vascular Inflammation in Aggressive Periodontitis. Co-investigator/statistician (PI: HA Schenkein). NIDCR-NIH 1R01DE018125. March 2008-Feb 2012.

Feeding Readiness in Preterm Infants. Co-investigator/statistician (PI: R Pickler) NINR/NIH 5R01NR005182-06. May 2007-April 2011

Periodontitis, Anti-Phospholipids, Dendritic Cells and Atherosclerosis. Co-investigator/statistician (PI: JG Tew). NIDCR/NIH 1R01DE017223 May 2007-May 2010.

Sedation effects in mechanically ventilated patients. Statistician (PI: MJ Grap, Adult Health Nursing) NINR/NIH 1R01NR009506. Amount: \$1,488,238, Effort: 15% Dates: 01/01/2007 - 12/31/2009

Disregulation of the insulin-like growth factor binding protein 3 (IGFBP-3 receptor axis in prostate tumor genesis. Statistician (PI: Y Oh, Pathology) Sponsor: Department of Defense Amount: \$562,480, Effort: 5% 09/01/2004 - 08/31/2007

Feeding Readiness in Preterm Infants. Statistician (PI: RH Pickler, Maternal Child Nursing) NIH-NINR. Amount: \$2,381,201, Effort: 10% 07/01/2006 - 06/30/2011

Improving Metrics for Monitoring the Therapeutic Effectiveness of Radiation Treatment in Head and Neck Cancers. Statistician (PI: DiNardo, Otolaryngology) Richmond Eye and Ear Foundation Amount: \$49,317, Effort: 5% Dates: 01/01/2007 - 12/31/2008

Genetic and Immunologic Aspects of Periodontal Diseases, Statistician (PI: H Schenkein) NIDCR-NIH P01-DE-013102-01, 20% 7/1/2000-6/30/2005

Project ACHIEVE. Statistician (PI= Donald Oswald, VTCC) US Dept of Ed., Office of Educational Research and Improvement, R308F70020, 20%, 10/1/97-9/30/2000

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.

## **9.4 Invited seminars.**

See the section on presentations, abstracts and posters

## **9.5 Other.**

Expert witness on a sex/race discrimination suit before the U.S. District Court, Eastern District, Judge Britt, 1998

## **10. MAJOR COMMITTEES:**

### **10.1 University.**

Research committee member, School of Dentistry, 2001-2018

Elected faculty representative to the School of Dentistry Steering Committee, 2011-2015

Elected faculty representative to the School of Dentistry Administration Committee, 2014-2015

Chair, Data Safety and Monitoring Committee, School of Nursing, Center of Excellence in Biobehavioral Approaches to Symptom Management, 2010-2013  
Chair, Data Safety and Monitoring Committee, School of Nursing, PLAY Study, 2007-2011.  
Staff Member, Data Safety and Monitoring Committee, School of Nursing, PRO Study, 2005-2011  
Chair, Search committee in the School of Dentistry, hired Caroline Carrico, 2015  
Chair, Search committee in the School of Dentistry, hired Oonagh Longhran, 2013  
Chair, Search committee in Biostatistics, hired Jessica Ketchum, 2007  
Chair, Data Information Management committee, Department of Biostatistics, 2007  
Member, Search committee for the Chair of the Department of Behavioral Sciences and Health Promotion, 2005  
HIPPA compliance officer, Biostatistics 2007-2010  
Chair of Information Security Audit, Biostatistics 2009  
Member and Chair, Biostatistics Exam Committee 2007-2011  
Member, School of Public Health Planning Retreat, 2006  
Member, VCU Mission Based Management committee 2002-3  
Member, Research Advisory Committee, School of Medicine 2002-3  
Member, Curriculum Committee, Biostatistics department, 2003  
Chair, Biostatistics Seminar Committee, 2001

## **10.2 Professional – panels, boards, councils.**

Board Member: Task Force on Design and Analysis in Oral Health Research, 2011–present.  
National Institutes of Health NIDCR reviewer for the biostatistics portion of the following:

10 ZDE1 SM(14) in 2015  
R03 DE022585-01A1 in 2012  
P01 DE11549-06 in 2000  
P60 Center Review in 1999  
RFP-93-6R in 1994  
P01 DE09835-01 in 1991 and site visit in 1990.

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

Editorial Board member and Statistical Editor for the *Journal of the American Dental Association* 2013–present.

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

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

Statistical Reviewer for the *Journal of Periodontology* 1990-1993, 1998–present.

Statistical Reviewer for *Radiology* 2002–2007.

Statistical Reviewer for *Health Care Management Science* 2009–2011.

## **11. OTHER SIGNIFICANT SCHOLARLY, RESEARCH OR ADMINISTRATIVE EXPERIENCE:**

### **11.1 Graduate students trained (degree and year).**

#### **11.1.1 Dentistry**

See **11.2 Postdoctoral trainees**

#### **11.1.2 Biostatistics** (PhD dissertation committees, MS thesis committees)

- B Evani (2017) WEIGHTED QUANTILE SUM REGRESSION FOR ANALYZING CORRELATED PREDICTORS ACTING THROUGH A MEDIATION PATHWAY ON A BIOLOGICAL OUTCOME. Dissertation committee member
- SJ Ketchum (2018?) Committee member.
- H Hammouri (2014) Review and extension for the O'Brien Fleming multiple testing procedure. Dissertation committee member.
- N Farhat (2014) Design and analysis of toxicological experiments with multiple endpoints and synergistic and inhibitory effects. Dissertation committee member.
- EM Sheldon (2013) Restricted mean estimation in the presence of long term censoring. Dissertation committee member.
- E Nyirabahizi (2010) Bayesian and frequentist approaches for the analysis of multiple endpoints data resulting from exposure to multiple health stressors. Dissertation committee member.
- A Ahmed (2010) Cost and accuracy comparisons in medical testing using sequential testing strategies. Dissertation committee member.
- JM Ketchum (2006) A normal mixture model with random effects for RR interval data. Dissertation Co-director.
- ML Nussbaum (2006) Meta-analysis of open versus closed treatment of mandibular condyle fractures. Thesis committee director.
- R Kennedy (2006) Probe level analysis of Affymetrix microarray data. Dissertation committee member.
- Leroy Thacker (2004) Regression diagnostics for the mixed linear model. Dissertation committee member.
- LR Campbell (2004) Futility analysis with covariables. Dissertation committee member.
- TJP Massey (2004) Testing genetic hypotheses of bivariate dichotomous twin data using repeated measures logistic regression. Dissertation committee member.
- BN Rutledge (2004) A comparison of twin methods when the liability is non-normal. Dissertation committee member
- SS Cofield (2003) Mixed-effects models with variance groups in *R* and the Trace Information Criteria (TRIC). Dissertation Co-director, 2003.
- SR Lawson (2003) Predictors of primary care residency choice and perceptions of medical practice of the Virginia Commonwealth University School of Medicine graduates.
- KM Sale (2002) Predicting low density lipoprotein particle size from the traditional lipid profile. Thesis director.
- TE Crofts (2001) Accounting for the treatment by noise factor interaction in the sample size determination for the generalized linear mixed model. Dissertation committee member.
- LA Filicky (1999) Statistical Assessment of the quality control process for oligonucleotide microarrays. Thesis director
- TL McCann (1999) Determining estimable functions in the general model. Dissertation committee member.
- CC Manning (1998) A comparison of neonatal and fetal death rates in growth-restricted pregnancies. Thesis director.
- MK Whittemore (1996) A critical review methods for comparing two or more cancer staging systems. Thesis committee member.

RR Brown (1995) 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. Thesis committee member.

JA Bander (1991) A study of reliability of pocket depth and attachment level. Thesis director.

JM Myers (1989) Study of tests for homogeneity of variance. Thesis director.

JC Gunsolley (1987) False positive rates encountered in the detection of changes in periodontal attachment level. Thesis committee member.

### **11.1.3 Other (PhD dissertation committees, MS thesis committees) (a partial list)**

R Pallavi (2012) Quantifying preterm infant feeding coordination: An algorithmic approach. School of Engineering dissertation committee member.

AJ Alsaman (2010) Impact of statin therapy on outcomes in aneurysmal aubarachnoid hemorrhage patients. School of Pharmacy thesis committee member.

S Terathongkum (2008) Relationships among stress, blood pressure, and heart rate variability in meditators. School of Nursing dissertation committee member.

C Chiaranai (2008) Self-care and quality of life in patients with heart failure”, School of Nursing dissertation committee member.

D Crosson (2007) Effect of predictable feeding opportunities on preterm infant behavior state”, School of Nursing dissertation committee member.

### **11.2 Postdoctoral trainees (MSD Thesis committees or mentorship) current and past years).**

In the past few years, I have mentored the following MSD students (partial list, since 2007):

#### **11.2.1 Department of Endodontics**

Arasu, Eshwar (2017) Evaluation of volumetric change of periapical lesions after apicoectomy as a measure of postsurgical healing utilizing cone beam computed tomography

Ardalan, Cyrus (2017) A Comparative Study of Intraradicular Enterococcus Faecalis Biofilm Removal with Three Root Canal Treatment Systems: A Scanning Electron Microscopy Evaluation

Karashi, Husain (2017) The prevalence, predictive factors, and classification of intrapulpal cracks in maxillary molars requiring endodontic treatment

Sturgill, Riley (2017) Prevalence and Clinical Characteristics of Teeth Extracted with a Diagnosis of Cracked Tooth: A Retrospective Study

Batra, Preeti (2016) Pediatric dentists’ perspective of the general dentists’ role in treating children 0-3 years old

Fike, Jeremy (2016) Assessment of changes in the size of periapical radiolucencies 3-12 months post non-surgical root canal treatment using CBCT imaging: A pilot study

Packer, McKay (2016) Comparison of treatment planning decisions when combining CBCT and digital radiography verses digital radiography alone

Schroeder, Nicholas (2016) The incidence of root dentinal micro-cracks caused by reciprocating and continuous rotary instrumentation

Beavers, Charles M (2015) Restorative characteristics of intrapulpally cracked teeth

Lee, Katherine JS (2015) Lowering the number of false positive responses to electric pulp tests by qualifying patient response

Sealey, Sheldon M (2015) Treatment decisions involving teeth with intrapulpal cracks: A survey of endodontists.

Colorado, Claudia P (2014) Clinical and radiographic evaluation of MTA pulpotomies: A retrospective study.

- Detar, Matthew S (2014) A classification system of intrapulpal cracks
- Lawson, Sean O (2014) Incidence of chamber cracks in 1<sup>st</sup> and 2<sup>nd</sup> mandibular molars requiring non-surgical root canal treatment.
- Gerhard, Claire F. Siegel (2014) Histopathologic analysis of endodontically associated lesions
- Smart, Christopher J. (2013) Microbial Evaluation of the Calamus Heated Gutta-Percha Delivery System
- Sarao, Manpreet S. (2013) Comparative analysis of Residual Dentin Cementum thickness of Maxillary First Premolar Buccal Root after instrumentation with three different rotary files using limited field CBCT
- Ha, Dan-Linh N. (2013) Accuracy of Limited Field Cone Beam Computed Tomography in the Detection of Buccal Cortical Plate Perforations Due to Apical Periodontitis
- Coudron, Jonathan P. (2012) The Antimicrobial Effect of Steriplex® HC in comparison with Sodium Hypochlorite on *Enterococcus Faecalis*
- Desai, Pranav D. (2012) Comparison of Root Canal Irrigation Systems in Reducing Intracanal Microorganisms Using Saline- an In Vitro Study
- Stephan Zigo (2011) A comparative study of rotary instrumentation of the maxillary first premolar buccal root utilizing cone beam computed tomography
- Kalisha Jordan (2011) Comparison of Epiphany® and AH-Plus® root canal sealer penetration of dentinal tubules: a SEM study
- Suren Paravyan (2011) Comparison of adhesion of Gutta Percha/AH Plus® and Resilon/Epiphany® SE [TM] after a final rinse with different concentrations of ethanol
- Tim Finkler (2011) The effect of insulating K-Type files on accuracy and reliability as used in two electronic apex locators
- Al-Foraih, Fawaz (2010) Vital Pulp and Periapical lesions of Odontogenic origin in young permanent teeth
- Bhagchandani, Sanjay P. (2010) The Use of Cone Beam Computed Tomography in Determination of the Size, Orientation, and Position of the Mental Foramen
- Letellier, Paul R. (2010) The Application of CBCT in Analysis of the Anatomical Relationship between the Apices of the Mandibular Molars and the Mandibular Canal
- Turner, E. Paige (2010) Defining the Bacterial Flora of Periodontal pockets in Chronic Periodontitis Patients
- Kyu, Pye (2009) Antibiotic Use by Members of the American Association of Endodontics: A National Survey for 2009- A Follow up from the Report in 1999
- Osmond, Steven W. (2009) Comparing cyclic fatigue of the new GT® Series XTM Files to the original ProFile GT® rotary instruments
- Wayment, Nathan S. (2009) Comparing Cyclic Fatigue Of The New GT® Series X (Tm) Files To The Endo Sequence™ Rotary Instruments
- Reynolds, Jake (2009) Comparative analysis of torsional strength between Profile® GT® and GT® Series X™ nickel titanium rotary instruments
- Hadley, David (2008) A comparison of five radiographic systems to D-speed film in the detection of artificial bone lesions
- Davis, Adam (2008) Contamination of dental waterlines: efficacy of seven waterline treatments and three in-office bacteria test kits
- Sparrow, Clay (2008) Density of gutta percha by weight in straight root canals and curved root canals after single cone, cold lateral, and warm vertical condensation



- Packer, Gardiner (2008) The use of implants vs. endodontics: practitioner attitudes in 2007
- Harmon, Melissa A. (2007) Immunohistochemical study of pulps from non-carious and carious teeth
- Clark, Paul D. (2007) An *in-vitro* leakage and viscosity analysis of root end filling materials
- Lloyd, Matthew W. (2007) A comparison of flexural fracture of three different nickel-titanium rotary file systems
- Smith, Michael S. (2007) Sodium hypochlorite's effect on nickel-titanium rotary instruments and its effect on resistance to fracture

### **11.2.2 Department of Orthodontics**

- Barcoma, Elvi M (2015) Esthetic preferences of maxillary incisor labiolingual inclination across races
- Blackburn, James N (2015) In-vitro assessment of a novel bracket's effect on resistance to sliding.
- Eliason, Joseph L (2015) Crown size comparisons in patients with unilateral palatally displaced canines
- Sandretti, Matthew A (2015) Restoring Lateral Incisors and Orthodontic Treatment: Perceptions among General Dentists and Orthodontists
- Allen, Samuel B (2014) The fluoride recharging capability of multiple orthodontic primers: an in vitro study.
- Bibona, Kevin R (2014) Examining the communication between orthodontists and general dentists: How often, when, and why?
- Nelson, Kristin L (2014) Social media in orthodontics: the practitioner's perspective.
- Redford, James R (2014) Factors affecting the variability in lower incisor flare during class II correction.
- McEntire, Clayton H. (2013) Quantification of upper lip mobility and its importance as an etiological factor in patients with excessive gingival display
- Eppright, Matthew L. (2013) The influence of active reminders on oral hygiene compliance in orthodontic patients.
- Kelly, Gillian RK. (2013) Attire and Appearance of Orthodontists: A Survey of Parent Preferences
- Babb, Lisa M. (2013) The influence of profile on social perceptions of college students
- Bates, Sheldon A. (2012) Mandibular symphyseal distraction osteogenesis: Association with TMD symptoms
- Farah, Christine (2012) The Fluoride Recharging Capability of Orthodontic Materials: an in-vitro study
- Jones, David L. (2012) Perceived social attributes of college students with ideal versus non-ideal dental esthetics judged by peers
- Shoff, Michael C. (2012) Skeletal and dental effects of class II correction with the Forsus device and their relationship to vertical facial characteristics
- Dan Pennella (2011) The effects of a fluoride releasing orthodontic primer on demineralization around brackets: an in-vivo study
- Johnson, Cole R. (2011) A novel bioactive glass-enhanced orthodontic bonding resin: a shear bond strength study
- Nathan Granillo (2011) Three-dimensional photographic evaluation of immediate soft tissue changes following rapid maxillary expansion
- Scarborough, Larry D. (2011) Self-perception of smile aesthetics and self-esteem

- Burke, Brandon G. (2010) Perception of soft tissue laser use in orthodontic practice: a survey of orthodontists, periodontists, and general dentists
- Lu, Hung Q. (2010) Facial Profile Preferences amongst Asians, Caucasians, and Orthodontists
- Poole, Morris L. (2010) White Spot Lesions - Minimizing Mineral Loss During Orthodontic Treatment an In Vitro Study
- Prettyman, Chase T. (2010) Self-Ligating vs. Conventional Brackets as Perceived by Orthodontists
- Dixon, Julian S. (2009) Prevalence of white spot lesions during orthodontic treatment with fixed appliances
- Maxfield, Blake J. (2009) Perceived responsibility for the development of white spot lesions during orthodontic treatment
- Montgomery, Erin B. (2009) Leadership and dental aesthetics of adults as perceived by laypersons
- Stewart, Daniel A. (2009) Bonding orthodontic brackets to stainless steel crowns
- Hensen, Scott B. (2008) Influence of dental esthetics on social perceptions of adolescents judged by peers
- Ghaffari, Ashkan (2008) Treatment outcomes and retention in Medicaid and non-Medicaid orthodontic patients
- Caldwell, Rush-Baker (2008) Alternative orthodontic bonding protocol using self etching primer
- DeCastro, Ana P. (2008) Orthodontic bracket bond strength using self-etching primer with or without pumice or acid etch pretreatment
- Fowler, Chad E. (2007) Relationship between Facial Attractiveness and Occlusal Treatment Outcomes: A Retrospective Study
- Gladwell, Jason T. (2007) Concurrent Whitening and Orthodontic Treatment
- Kelleher, Kevin E. (2007) Overbite Correction and Smile Esthetics
- Roberts, T. Luke (2007) The Effect of Pre-Cure Bracket Movement on the Shear Bond Strength of Metal Brackets

### **11.2.3 Department of Pediatric Dentistry**

- Dugoni, Meredith (2017) Role of the Pediatric Dental Provider in Human Papillomavirus (HPV) Education
- Holland, Martha (2017) A Comparison of Treatment Planning Modalities for the Pediatric Dental Patient
- Javdan, Nazy (2017) Silver Diamine Fluoride Application and Oral Health-Related Quality of Life
- Parikh, Ojas (2017) A Comparison of Moderate Oral Sedation Drug Regimens for Pediatric Dental Treatment
- Westphal, JD (2017) Provider Appearance: a survey of guardian and patient preference
- Andrew Gibson (2106) Parental Perceptions of Oral Health Quality of Life for Children that Receive Care on Give Kids a Smile Day
- Amanda Kerns (2106) The Effectiveness of an Increased Recall Strategy in Children Following Dental Rehabilitation Under General Anesthesia
- Susan Meinerz (2106) Serum Vitamin D, PTH, and Calcium Levels in Patients with and without Early Childhood Caries
- Ethan Puryear (2106) Factors affecting participation in Begin with a Grin program

- Aaron Schmick (2106) Vital Pulp Therapy Survivability Based on Radiographic Depth of Caries
- Hofileña, Vanessa O (2015) A Comparison of Vitamin D Levels in Children with Early Childhood Caries
- Kuhnen, Marissa M (2015) A Justification for the Trend Towards Indirect Pulp Therapy
- Nordeen, Katie (2015) The Effectiveness of a Preventive Recall Strategy in Children Following Dental Rehabilitation Under General Anesthesia
- Patel, Arpi (2015) Motivational Factors for Treating Patients with Special Health Care Needs
- Burke, Brian O (2014) Operating room scheduling for residents in a pediatric dentistry program
- Cronly, Jo K (2014) Developing a tool to identify pediatric patients who have or are at risk to have Obstructive Sleep Apnea: A retrospective chart review
- Lentini, Erika S. (2014) Endodontic Radiolucency On A Mature Permanent Tooth In The Pediatric Population: Can The Tooth Be Vital?
- Mujica, Marcela R. (2014) Comparing tooth enamel disturbances in a pediatric population that received chemotherapy treatment to age-matched controls from the VCU Pediatric Dentistry Clinic.
- Williams, Tiffany (2014) Vitamin D deficiency and its correlation to early childhood caries.
- Peters, Barrett W. (2013) Impact of State Medicaid Reform on the Dental Workforce
- Hodgson, Kristin S. (2013) Effectiveness of Visual Aids on Preventive Dental Goals
- Merrell, David W. (2013) Comparing Oral Ketamine-Midazolam and Chloral Hydrate-Meperidine-Hydroxyzine Sedation Regimens
- Bhatti, Bushra A. (2013) Service-Learning Program's Impact on Dental Students Confidence Treating Pediatric Population
- Doan, Dana (2013) Comparison of Injection Discomfort and Anesthetic Duration of Plain Polocaine versus Epinephrine Containing Articaine and Lidocaine
- Campbell, Belinda L. (2012) Effect of local anesthesia on postoperative pain with general anesthesia
- Davis, Charles A. (2012) Retentive Cement Strengths with Passive Fit Primary Anterior Esthetic Crowns
- Graham-Montague, Rana (2012) The impact of maternal influences on early childhood caries
- Peck, Christian (2012) The Effectiveness of Visual Aids in Motivational Counseling on Oral Health Literacy
- Zale, Andrew S. (2012) Parental understanding of anesthesia risk for dental treatment-A pilot study
- Edwards, Justin S (2011) Trends in dental care for individuals with ectodermal dysplasia
- James Reed (2011) Dental Plan Performance With Medicaid Reform In Virginia
- Husson, Mindy M. (2011) Evaluating dental surgery post-operative pain in children following treatment under general anesthesia
- James Dibelka (2011) Maternal influences on the development of infant oral biofilm
- Whitfield, Heath A. (2010) Genetic Variations of the CYP2B6 enzyme and the response to meperidine in oral sedation.
- Shults, Lawrence H. (2010) Assessment of the Pharmacokinetics and Safety of Oraqix Gel Use in Healthy Adolescent Volunteers Following Primary Tooth Extraction
- Zima, Andrew D. (2010) The Effects of Motivational Interviewing in Pregnancy on Retaining Infant Oral Health Knowledge and Behavior

- Foster, Latrice R. (2010) Oral Health Status of Children in the Child Health Investment Partnership Project
- Berry, Elizabeth J. (2009) Preventive Dental Services for Infants and Subsequent Utilization of Dental Services
- Fries, Melissa P. (2009) Functional health literacy and the use of dental services in young children
- Hua, Sally S. (2009) Genetic Variations of the CYP2B6 enzyme and the response to meperidine in oral sedation.
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- Haffner, John J. (2009) The evaluation of pain experienced by children undergoing simple extraction using 2% lidocaine versus oraqix topical anesthetic gel
- Phelps, Joy (Barnes, Joy) (2008) Virginia Emergency Department Physician Knowledge of the Emergent Treatment of Avulsed Teeth
- Carmichael, Lonny D. (2008) Esthetic posterior stainless steel crowns and their relative shear strengths
- Kuhn, Amanda (2008) Fluoride varnish use among dentists in Virginia
- Flowers, John (2008) Quantifying the depth of oral sedation using bispectral index monitoring
- LaLande, Carla J. (2008) A comparison of emergence behavior in pediatric dental patients undergoing general anesthesia with sevoflurane versus desflurane
- Hollowell, Robert L, III (2007)
- Cole, D'Audra M. (2007) The Effect of a Nominal Fee on Treatment Choices for Children Needing Dental Rehabilitation
- Mansman, Robert W (2007) Oral Health Services in a Medical Setting
- Nelson, Kristin E. (2007) Children with Special Needs Oral Health Quality of Life Survey
- Agarwal, Gaurav (2007) Adverse Anesthesia Outcomes: A Retrospective Study of an Ambulatory Surgical Center versus a Dental Office Setting.
- Patel, Priya J (2007) Educational Survey of Eating Disorders in Post-Graduate Pediatric Curriculum

#### **11.2.4 Periodontics Department**

- Danielle McCormack (2017) Profiling Precursor Lipids for Specialized Pro-Resolution Molecules in Platelet-Rich Fibrin Following Fish Oil and Aspirin Intake
- Kane Ramsey (2017) Amoxicillin Inhibits Anaerobic Bacteria within an Oral Microbiome Derived from Patients with Chronic Periodontitis
- Lisa Turner (2017) Profiling Precursor Lipids for Specialized Pro-Resolution Molecules in Platelet-Rich Plasma Following Fish Oil and Aspirin Intake
- Glazier, Thomas F. (2015) The Role of Leukocyte-Platelet Rich Fibrin in Human Alveolar Ridge Preservation: A Randomized Clinical
- Hasan, Fadi K. (2015) Characterization of Leukocyte-Platelet Rich Fibrin, a Novel Biomaterial
- Trahan, William R (2015) Peracetic Acid: A Practical Agent for Sterilizing Heat-Labile Polymeric Tissue-engineering Scaffolds
- Voth (Chambers), Stephanie N. (2012) Microbial DNA receptor expression in chronic periodontitis

- Rost, Anya A. (2014) Using CBCT in vivo as a diagnostic tool for detection and evaluation of the architecture and depth of infrabony defects
- Shreck, Jessica S. (2014) Using CBCT as a diagnostic tool to evaluate furcation defects
- Bakuri, Sarmad (2014) Use of supplements in a dental practice setting
- Corin Marantz (2012) Comparison of Using Cone Beam Computed Tomography and Periodontal Probing in Measurement of Periodontal Osseous Defects
- Justin Hardison (2012) Accuracy of cone-beam computerized tomography in determining the thickness of the palatal masticatory mucosa
- Sam Malkinson (2012) The effect of esthetic crown lengthening procedures on dental professionals' and lay-persons' perceptions of a smile's attractiveness, as well as a patient's emotional stability, dominance, and self-esteem
- Rodriguez, Rafael (2011) Defining the Bacterial Flora of Periodontal pockets in Chronic Periodontitis Patients
- Duggan, Sayward E. (2011) Alveolar Ridge Height and Width Analysis Following Socket Preservation Using Cone Beam Computed Tomography
- Strem, Jason M. (2011) Patient satisfaction with sedation for Periodontal Surgery: A Randomized, Cross-over Clinical Study
- Bohlen, William F. (2010) Factors affecting gingival excess, altered Passive eruption and recession in the mandibular anterior and premolar sites
- Carlos, Francisco T. (2010) The prevalence of maxillary altered passive eruption in a dental school population
- Chou, Melanie (2009) Frequency of TLR-2, 4, 9 and CD14 polymorphisms in aggressive periodontitis population in African-Americans
- Maughan, Willard (2009) The effect of single nucleotide polymorphisms (SNPs) in toll-like receptors -2, -4, -9, and CD14 genes in an African-American population with chronic periodontitis
- Rastogi, Amal (2009) Heritability of autoantibody levels in a twin population

#### **11.2.5 DDS student mentoring (partial listing)**

- Formica, Louis (with Dr. Brickhouse) Barriers to nutrition counseling
- Clawson SC, (with Dr. Imbery, Dr. Moon) Evaluating EDTA as a Substitute for Phosphoric-Acid-Etched Enamel and Dentin – project complete; folded into Imbery paper.
- North L, (with Dr. Imbery, Dr. Moon) Bond Strength of Filtek-Supreme-Ultra Using Different Conditioners and Bonding Agents” – project complete; folded into Imbery paper.
- Hughes, (with Dr. Shroff) survey of AAO residents.
- E Barcoma, (with Dr. Shroff ) A survey of orthodontists and general dentists on Interproximal Reduction”
- Bibona, Shroff “Survey on the management of retention using headgear” analysis done.
- C Braasch (with Dr. Strauss) “Length of stay, antibiotics ...”

### **11.3 Major teaching assignments.**

- DENS524/619/628 Evidence based dentistry & Critical Thinking I, II, and III. Taught classes since 2013.
- DENS580: Biostatistical methods for dental residents. Course Director since 2001.

BIOS543/544: The applied biostatistical methods class for non-Biostat majors. Taught from 1999 to 2011. Over 10+ years, this course went from an enrollment of 15 to nearly 200, in two sections.

BIOS 553/554: The applied biostatistical methods class for masters and doctoral candidates on topics in the practical and theoretical aspects of the General Linear Model.

BIOS524: The statistical computing and data management class. Taught from ~1984-1999.

Further information on each appears below:

### **11.3.0 Evidence based dentistry**

The DENS524/619/628 Evidence based dentistry & Critical Thinking I, II, and II classes were revamped in 2013. Prior to that, in 524 I lectured in 3 classes and beginning in 2013 I lectured in 4 classes. Beginning in the Fall of 2015, my involvement increased.

### **11.3.1 DENS580**

The course web pages begin at: [www.people.vcu.edu/~albest/DENS580](http://www.people.vcu.edu/~albest/DENS580). The 1+ semester course focuses on two areas: becoming a competent consumer of the research literature, and completing a research project. Dental residents learn to critically review the dental literature so that they may carry out evidence-based dentistry. This is done in collaboration with the faculty in their specialty, of course, but the experimental design and statistics components are covered in DENS580. Successfully completing an MSD research project involves working with their advisor to design and execute a project. All along the way, I collaborate with the research team to ensure the project is doable and when the data collection process is complete, either I or another biostatistician work one-on-one to write up the results section and then to integrate it into the final Thesis and, in many cases, a published manuscript.

Since the class is taught seminar style and it has a small enrollment, I've not used student evaluations.

### **11.3.2 BIOS543/544**

I was the Course Director for BIOS 543, Statistical Methods I, a required course for many post-graduate majors across multiple schools, from 1999 onward. This class taught applied biostatistical methods class for masters and doctoral candidates on topics in the practical and theoretical aspects of the General Linear Model. The course targeted new researchers who are learning the basics of statistics. When I first took over the course, it was a required course only for only a few graduate programs. After 15 years of development, BIOS/STAT 543 is a required course for the following program/degrees: College of Humanities and Sciences: MS Biology, PhD Integrative Life Sciences, MS Forensic Science; School of Allied Health Professions: MS Clinical Laboratory Sciences, PhD Rehabilitation and Movement Science; School of Education: MS Health and Movement Sciences; School of Engineering: PhD Biomedical Engineering, PhD Electrical and Computer Engineering; School of Medicine: MPH, PhD Human Genetics. BIOS 543 is a recommended elective course in the School of Medicine: PhD Anatomy and Neurobiology, MS Genetic Counseling, PhD Physiology, PhD Epidemiology; School of Nursing: PhD Nursing; School of Pharmacy: Doctor of Pharmacy; School of Social Work: Master of Social Work; Life Sciences: PhD Integrated Life Sciences.

BIOS 544 extends 543 and adds multivariable analyses (multiway ANOVA and multiple regression) and introduces equivalence analysis, logistic regression and survival analysis. It is a recommended or required course for: PhD Integrative Life Sciences, PhD Rehabilitation and Movement Science, MS Genetics Counseling, PhD Human Genetics, PhD Epidemiology, PhD Nursing.

### **11.3.4 BIOS524**

This class is required of all 1<sup>st</sup> year BIOS PhD students. Although officially called “Statistical Computing” it is essentially the “SAS class.” At the time I taught the course, SAS was *the* computational tool all biostatisticians must master, students began the process of becoming fluent in the language of the DATA step in this class. The class was last taught by me up until 1999 and my course notes were used by subsequent instructors.

## 12. BIBLIOGRAPHY:

### 12.0 Papers submitted

Coe JM, Razdan S, Best AM, Brickhouse TH (revising) General Dentists’ Role in Treating Children 0-3 years old: Pediatric Dentists’ Perspective. Journal of Pediatric Dentistry.

### 12.1 Papers published

I have co-authored 207 refereed journal publications and 4 books. Web of science sum of the number of times cited (without self-citations): 3552, Average citations per item: 19.3. H-index: 38. [Citation report completed: March 2017]

1. Coe JM, Sturgill RB, Best AM, Myers GL. Cracked Tooth Prevalence among Extracted Teeth: A retrospective study from academic dental clinics. Journal of the American Dental Association (in press).
2. AR Edelmann, D Patel, RK Allen, CJ Gibson, **AM Best**, S Bencharit. Retrospective analysis of porous tantalum trabecular metal–enhanced titanium dental implants. The Journal of Prosthetic Dentistry. 2018 (in press).  
<https://doi.org/10.1016/j.prosdent.2018.04.022>
3. Brecher EA, Keels MA, **Best AM**, Quiñonez RB, Roberts MW. Management of After-Hours Pediatric Dental Emergencies Among Pediatric and General Dentists. Pediatric Dentistry. (in press)
4. Berry EJ, Brickhouse TH, Kerns AK, Nordeen KA, **Best AM**. Effectiveness of a preventative recall strategy for children after dental rehabilitation with general anesthesia. Pediatric Dentistry. 2017;39(7):450–454. PMID: 29335051
5. Coe JM, Razdan S. **Best AM**, and Brickhouse TH. The impact of community-based clinical training on dental students’ confidence in treating pediatric patients. General Dentistry. 2018;82(1):5–11.
6. Coe JM, Razdan S, Best AM, Brickhouse TH. Pediatric dentists' perspective of general dentists' role in treating children aged 0-3 years. Gen Dent. 2017;65(2):e1-e6. PubMed PMID: 28253187.
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8. Taylor CA, Strauss RA, **Best AM**. Postural preference and musculoskeletal complaints in oral and maxillofacial surgeons. J Oral Maxillofac Surg. 2018;76:46–51.  
<https://www.ncbi.nlm.nih.gov/pubmed/28529148>
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10. Bakuri S, Lanning SK, **Best AM**, Sabatini R, Gunsolley J, Waldrop TC. Dental patients’ self-reported use of dietary supplements on medical history questionnaires. Gen Dent 2016;64(6):72-76.

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12. Imbery TA, Diaz N, Greenfield K, Janus C, **Best AM**. Quality of Impressions and Work Authorizations Submitted by Dental Students Supervised by Prosthodontists and General Dentists. *J Dent Educ*. 2016; 80:1229-1236.
13. **Best AM**, Greenberg BL, Glick M. From tea tasting to *t* test: A *p* value ain't what you think it is. *J Am Dent Assoc* 2016;147(7):527-9.
14. Grap MJ, Munro CL, Wetzel PA, Ketchum JM, Sessler CN, Ketchum JS, Anderson WL, **Best AM**, Hamilton VA (2016) Critically ill patient stimulation over time: Effect on sedation in the mechanically ventilated patient. *American Journal of Critical Care*. 2016;25(3):e48-55.
15. Tufekci E, Allen SB, **Best AM**, Lindauer SJ. Current trends in headgear use for the treatment of Class II malocclusions. *Angle Orthod* 2016;86(4):584-9.
16. Bakuri S, Lanning SK, Waldrop T, Sabatini, Gunsolley JC, **Best AM** (accepted) Dental Patients' Self-reported Use of Dietary Supplements on Medical History Questionnaire. *General Dentistry*. *Gen Dent*. 2016;64(6):72-76.
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191. Myers, B.J., Jarvis, P.A., Creasey, G.L., Kerkering, K.W., Markowitz, P.I., and **Best, A.M.** Prematurity and respiratory illness: Brazelton scale (NBAS) performance of preterm infants with bronchopulmonary dysplasia (bpd), respiratory distress syndrome (RDS), or no respiratory illness. *Infant Behavior and Development*, 15(1): 27-41, 1992.
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202. Gunsolley, J.C., Burmeister, J.A., Tew, J.G., **Best, A.M.**, and Ranney, R.R. Relationship of serum antibody to attachment level patterns in young adults with juvenile periodontitis or generalized severe periodontitis. *J Periodontol*, 58(5): 314-320, 1987.
203. **Best, A.M.** The application of decision analysis to evaluate the need for extraction of asymptomatic third molars. *Journal of Oral and Maxillofacial Surgery*, 45(10): 864-865, 1987.
204. Tew, J.G., Marshall, D.R., Moore, W.E., **Best, A.M.**, Palcanis, K.G., and Ranney, R.R. Serum antibody reactive with predominant organisms in the subgingival flora of young adults with generalized severe periodontitis. *Infect Immun*, 48(2): 303-311, 1985.
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## Review

**Best, A.M.**, and Morganstein, D. Statistics Programs Designed for the Macintosh: Data Desk, Exstatix, Fastat, JMP, StatView II, and SuperANOVA. *The American Statistician*, 45(4), 318-338, 1991. The full version was published in the Berkeley Macintosh Users Group (BMUG) newsletter.

## 12.2 Abstracts, Posters, Presentations

The list below is partial since I did not always record every presentation I made. The numbering has the prefix “P” to distinguish these Presentations from the manuscripts, above.

- P1. Best AM, Gunsolley JC. The Effect of Antimicrobials on Tooth Extractions in Periodontal Patients. Conference poster presentation, IADR June 2014.
- P2. Chiang HK, Cronly JK, Best AM, Leszczyszyn. DJ Development of a simplified pediatric obstructive sleep apnea (OSA) questionnaire: Initial results. International Pediatric Sleep Medicine conference poster presentation, November 2013.
- P3. Patel D, Imbery TA, Gray T, Best AM, and Moon PC. Shear Bond Strength of Immediate and Aged Composite Repairs AADR March 2014
- P4. Wang H, Imbery TA, Boxx C, Best AM, and Moon PC. Diametral Tensile Strength of Immediate and Aged Composite Repairs AADR March 2014
- P5. Coudron J, Imbery TA, Delatour F, Best AM, and Moon PC. Flexural Tensile Strength of Immediate and Aged Composite Repairs AADR March 2014
- P6. Coe JM, Brickhouse TH, Bhatti B, Best AM Service-learning’s Impact on Dental Students’ Confidence in Treating Pediatric Patients. AADR March 2014
- P7. Chiang H.K., Chumble A.A., Dixon S.W., Best A.M., Moon P.C. Evaluation of Aged Dental Composite Resins: Simulating Clinical Failures. Poster at the International Congress on Adhesive Dentistry, 2013
- P8. F. De Latour, T.A. Imbery, A.M. BEST, & P. Moon. Surface Treatment Effects on the Transverse Strength of Repaired Composite. AADR annual meeting poster, 2013.
- P9. T.H. Brickhouse, M.A. Winheim, B. Evani, E.J. Berry, J.A. Reed, & A.M. Best. Dental Plan Performance with Medicaid Reform in Virginia. AADR annual meeting poster, 2013.
- P10. C.A. Davis Jr., W.P. Piscitelli, T.H. Brickhouse, & A.M. Best. Retentive Cement Strengths with Passive Fit Primary Anterior Esthetic Crowns. AADR annual meeting poster, 2013.
- P11. M.T. Dinh, E. Tufekci, & A.M. Best. A Comparison of the Golden Proportion in Orthodontic Patients. AADR annual meeting poster, 2013.
- P12. C.M. Farah, E. Tufekci, A.M. Best, & S.J. Lindauer. The Fluoride Recharging Capability of an Orthodontic Primer. AADR annual meeting poster, 2013.
- P13. K. Bibona, B. Shroff, A.M. Best, & S.J. Lindauer. Orthodontists’ Management of the Retention Phase. AADR annual meeting poster, 2013.
- P14. T. Gray, T. Imbery, A.M. Best, & P. Moon. Shear Bond Strength of Repaired Composite Restorations. AADR annual meeting poster, 2013.
- P15. C.D. Boxx, T.A. Imbery, A.M. Best, & P. Moon. Diametral Tensile Strength of Immediate and Delayed Composite Repairs. AADR annual meeting poster, 2013.
- P16. T.H. Brickhouse, B. Evani, R. Haldima2, & A.M. Best. Impact of a Home Visiting Program on Children’s Dental Utilization. AADR annual meeting poster, 2013.
- P17. S.B. Allen, E. Tufekci, & A.M. Best. Orthodontists’ Perception of the Decline in Use of Headgear. AADR annual meeting poster, 2013.
- P18. T.H. Brickhouse, E. Puryear, B. Evani, A.M. Best, & R. Haldiman. Oral Health Prevention in an Early Childhood Home-Visiting Program. AADR annual meeting poster, 2013.
- P19. A.M. Best, “Core clinical research concepts and issues” invited three-day short course prior to the AADR Annual Meeting, 2013.
- P20. A.M. Best, “Core clinical research concepts and issues” invited three-day short course prior to the AADR Annual Meeting, 2012.

- P21. M. Baechle, A.M. Best, and C. Janus, “Dentists’ Attitudes Regarding Diagnostic Codes in Dentistry” AADR Annual Meeting, 2011
- P22. F Rostami, A Ahmed, AM Best, D Laskin “Changing Demographics of Women in Oral and Maxillofacial Surgery” AADR Annual Meeting, March 3-6, 2010.
- P23. D Laskin, AE Mohammad, AM BEST “Research in Oral and Maxillofacial Surgery Residencies: Attitudes and Opinions,” AADR Annual Meeting, March 3-6, 2010.
- P24. N Mollov, SJ Lindauer, and AM BEST, “Compliance and Retention in the Orthodontic Patient,” AADR Annual Meeting, March 3-6, 2010.
- P25. Brickhouse, T., Turner, R., Zima, A., and Best, A. Expectant mothers readiness and knowledge of infant oral health. IADR presentation, 2010.
- P26. Miller, C., Shroff, B., Best, A., and Lindauer, S. Perception of the effectiveness of clinical orthodontic rotations. AADR presentation, 2010.
- P27. 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.
- P28. Britto, A.D., Purcell, A.S., Best, A.M., and Lindauer, S.J. Effect of primer on bond strength of orthodontic adhesives. 2002.
- P29. JM Ketchum, AM Best, EH Sheldon (2008) “Team-based Learning in Graduate Statistical Methods Course for Biomedical Researchers” Joint Statistical Meetings, contributed paper presented 5August2008.
- P30. 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 5August2008.
- P31. Caruso, D., Best, A., McNamee, S., Nichols, M., and Walker, W.C. Poster 11: Concurrent validity of four pain intensity scales in persons with polytrauma and cognitive impairment. Archives of Physical Medicine and Rehabilitation, 2008;89(11):e23-e24.
- P32. EH Sheldon, JM Ketchum, AM Best (2008) “Using the GAISE Guidelines in a Graduate Biomedical Statistical Methods Class” Joint Statistical Meetings, poster presented 4August2008.
- P33. Adler, S.P. , Finney, J.W., Manganello, A.M., and Al M. Best. Prevention of Child-to-Mother Transmission of Cytomegalovirus among pregnant women. The Ninth International CMV Workshop, Maastricht, Netherlands 2003.
- P34. Nigro G., Adler SP, La Torre R, Best AM Passive immunization during pregnancy treats and prevents congenital cytomegalovirus infection. 10th CMV Workshop, Williamsburg VA 2005
- P35. Nigro G, Adler SP, La Torre R, Best AM Passive immunization during pregnancy treats and prevents congenital cytomegalovirus infection. Pediatric Research 2005.
- P36. La Torre R, Nigro G, Best AM, Adler SP. Placental enlargement is predictive of a primary maternal cytomegalovirus infection and fetal disease. Pediatric Research 2006.
- P37. Wilms, IR, Best AM, Adler SP. Cytomegalovirus infections among African-Americans. St. Jude/PIDS Pediatric Microbial Research Conference, Memphis, Tennessee 2007.
- P38. Wilms, IR, Best AM, Adler SP. Cytomegalovirus infections among African-Americans. 11th CMV Workshop, Toulouse, France. 2007
- P39. Grap, MJ, Sessler, CN, Best, AM, Wetzell, 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.

- P40. Brickhouse TH, Unkel JH, Kancitis, K, Best AM (2007) “Preventive Oral Health Services in a Medical Setting.” Presented at IADR meeting, March 2007.
- P41. D Huang, AC Richardson, SR Plymate, AM Best, JL McKinney, and J Ware “RNA interference-mediated silencing of the 14-3-3 sigma gene interferes with growth of the human prostate cancer cell line M12” presented at the American Association for Cancer Research meeting, Anaheim CA, April 2005.
- P42. Mellott, K.G., Grap, M.J., Hamilton, A., Best, A., Wetzel, P., Munro, C.L., Sessler, C.N. (2006) “The relationship of light, sound & rest periods on sedation, physiologic stability and movement in MV patients” poster at National Critical Care Nursing convention, May.
- P43. Grap, M.J., Sessler, C.N., Best, A.M., Wetzel, P., Hamilton, A., Mellott, K., Munro, C.L. (2006) “Physiologic stability and patient comfort during varying levels of sedation in mechanically ventilated adults” poster at National Critical Care Nursing convention, May.
- P44. 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.
- P45. 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.
- P46. 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.
- P47. T.N. SALZBERG, B.T. OVERSTREET, A.M. BEST, J. ROGERS, and H.A. SCHENKEIN (2005) “C-Reactive Protein Levels in Patients with Aggressive Periodontitis” Paper #61388 at the IADR, Baltimore, March 9-12.
- P48. 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.
- P49. Pickler, R.H., Reyna, B.A., Best, A.M., Wetzel, P., Gutcher, G. (2004) “Feeding Experience Predicts Feeding Outcomes in Preterm Infants” at the National Congress for the State of the Science in Nursing Research. Washington DC, 7–9 October.
- P50. Oswald, DP, Couthinho, MJ, and Best AM (2004) “Characteristics of Boys and Girls in Special Education” Symposia presented at the Pacific Coast Research Conference, San Diego CA, February 6, 2004.
- P51. 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.
- P52. 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.
- P53. 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.
- P54. 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.

- P55. 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.
- P56. Chou, D.H., Lewis, J.P., Best, A.M., Schenkein, H.A. and Califano, J.V. (2002) "Antibody reactive with *Porphyromonas gingivalis* Hemagglutinin A in adult and early-onset periodontitis" Paper presented at the American Association of Dental Research convention. March, 2002 San Diego.
- P57. Britto, A., Purcell, A.S., BEST, A.M., Lindauer, S.J. (2002) "Effect of Primer on bond strength of orthodontic adhesives" Paper presented at the American Association of Dental Research convention. March, 2002 San Diego.
- P58. Hahn, C.-L. and Best, A.M. (2002) "The Origin of Immunoglobulins in Dentinal Tubules" Paper presented at the American Association of Dental Research convention. March, 2002 San Diego.
- P59. Oswald, D., Coutinho, M. and Best, A.M. (2000) "Influences on disproportionate representation of children of color in special education," Paper presented at the Second International Conference on Children's Mental Health. Malaysia.
- P60. Baker, J.A., Singh, N.N., Best, A.M and Parson, C. (2000) "Prescribing practices of inpatient child psychiatrists." Paper presented at the Second International Conference on Children's Mental Health. Malaysia.
- P61. Olbrisch, M.E., Haller, D.L., Ashe, K., Shiffman, M., Fisher, R.A., and Best, A.M. (abstract) "Liver transplant outcome in alcoholic liver disease and matched comparison patients." Presentation at the American Psychological Association meeting.
- P62. Olbrisch, M.E., Ashe, K., Haller, D.L., Shiffman, M., Fisher, R.A., and Best, A.M. (2000) "Substance abuse outcome in transplant patients with alcoholic liver disease" Poster presentation at the College on Problems of Drug Dependence, San Juan, Puerto Rico, June 19.
- P63. Barbour, S.E., Zhang, J-B., Ishihara, Y., Fakher, M., Al-Darmaki, S., Best, A.M., Schenkein, H.A., Tew, J.G. (abstract). "Dendritic Cells in LJP Patients and IGg2." Presentation at the International Association for Dental Research Conference. February 2000.
- P64. Barbour, S.E., Zhang, J-B., Ishihara, Y., Fakher, M., Al-Darmaki, S., Best, A.M., Schenkein, H.A., Tew, J.G. "Regulation of IGg2 production by dendritic cells." Presentation at the Dendritic Cells meeting, Port Douglas, Queensland, Australia, May 2000.
- P65. Schenkein, H.A., Best, A.M. and Hunt, R.M. (2000) "Factors considered by new faculty in choosing academic careers." Paper presented at the AADS meeting, April, 2000.
- P66. Philip W. Iversen, P.W., Best, A.M. & Elswick, R.K., "Choosing not to use 'real' statistics software. Paper presented at the American Statistical Association Conference, August 1998.
- P67. Best, A.M. (1995) "Writing programs for JMP software" Paper presented at the meetings of the SAS Users' Group International, Orlando, Florida, April 3, 1995.
- P68. Ellis, C.R., Best, A.M. and Curtis, W.J. "Drug treatment of adults with mental retardation, mental illness, and severe behaviors problems," in Ellis, C.R. and Singh, N.N. (1994) Children and Adolescents with Emotional or Behavioral Disorders: Proceedings of the Fourth Annual Virginia Beach Conference. Richmond VA: Commonwealth Institute for Child and Family Studies, Medical College of Virginia, Virginia Commonwealth University.



- P69. Hart, R., Levenson, J., Sessler, C., Best, A., Schwartz, S., and Rutherford, L. "Validation of a cognitive test for delirium," paper presented at the International Neuropsychological Society meeting, Feb 8–11, 1995.
- P70. Baron, C.L., Bengston, D. and Best, A.M. (1993) "Analysis of the Cereal Data Using StatView, SuperANOVA and MacSpin," Poster presented at the American Statistical Association meeting, August, 1993.
- P71. 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.
- P72. 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.
- P73. Best, A.M. (1992) "Bacteriology and periodontal diseases: Some methodological considerations," Paper presented at the Task Force on Design and Analysis meeting, November, 1992.
- P74. 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.
- P75. 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.
- P76. 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.
- P77. 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.
- P78. 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.
- P79. 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.
- P80. 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.
- P81. 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.
- P82. Adler, S.P. and Best, A.M. Among Patients with Angiographically Proven Coronary Artery Disease Cytomegalovirus (CMV) Seropositivity is not Risk factor for Mortality. The Eighth International CMV Conference, Asilomar, CA 2001.

- P83. 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.
- P84. 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.
- P85. 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]
- P86. 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.
- P87. 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.
- P88. 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.
- P89. 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.
- P90. 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.
- P91. 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.
- P92. 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.
- P93. 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.
- P94. 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]
- P95. 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.
- P96. 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.

- P97. 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.
- P98. 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.
- P99. 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.
- P100. 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.
- P101. 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.
- P102. 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.
- P103. 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.
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### **12.3 Books and/or chapters**

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#### **12.4 Other – reviews, exhibits, films, tapes, etc**

I developed BIOS 543 to be delivered entirely online and put all of the video and associated material online in 2009.