

# Curriculum Vitae

## October 2016

LLOYD A. MANCL

**Birthdate:** January 9, 1963

**Education**

Pomona College	1981-1985	B.A.	Mathematics & Philosophy 1985
University of Washington	1986-1988	M.S.	Biostatistics 1988
University of Washington	1988-1992	Ph.D.	Biostatistics 1992

**Faculty Appointments**

<i>Institution</i>	<i>Department</i>	<i>Rank</i>	<i>Years</i>	<i>% Time</i>
University of Washington	Dental Public Health Sciences	Senior Research Fellow	1992-1995	100
University of Washington	Dental Public Health Sciences	Research Assistant Professor	1995-2002	100
University of Washington	Biostatistics	Adjunct Research Assistant Professor	1995-2002	100
University of Washington	Graduate School	Graduate Faculty	1997-present	100
University of Washington	Dental Public Health Sciences	Research Associate Professor	2002-2011	100
University of Washington	Oral Health Sciences	Research Associate Professor	2011-present	100
University of Washington	Biostatistics	Adjunct Research Associate Professor	2002-present	100
University of Washington	Pediatric Dentistry	Adjunct Research Associate Professor	2004-present	100

**Memberships**

- American Statistical Association, 1988-present
- American Association of Dental Research, 1992-present
- International Association of Dental Research, 1992-present
- International Biometric Society, 1995-present
- International RDC/TMD Consortium, 2004-present

**University Honors and Awards**

- NIH-Cardiovascular Predoctoral Training Fellowship, 1986-1991
- NIDR-Oral Epidemiology and Biostatistics Postdoctoral Training Fellowship, 1992-1995

**Current Research Projects**

- Oral Health Disparities
- Functional Abdominal Pain/Inflammatory Bowel Disease

## Research Grants

### Currently Active

1. **Grant Title:** Oral Health Equity in Alaska (OHEAL): Implementation and Evaluation of Delivery System Changes to Reduce Oral Health Disparities for Native American Children  
Principal Investigator: J. Cunha-Cruz  
Granting Agency: NIH                      Grant Period: 09/01/15-08/31/20      Total Direct Costs: \$4,592,613  
Role: Biostatistician                      Percent Effort: 20%
2. **Grant Title:** Parent Training to Address Pediatric Functional Abdominal Pain  
Principal Investigator: R. Levy  
Granting Agency: NIH                      Grant Period: 09/05/11-12/31/16      Total Direct Costs: \$450,601  
Role: Biostatistician                      Percent Effort: 5-10%
3. **Grant Title:** Oral Health Outcomes Associated with Living in Alaska Native Communities Served by Dental Health Aide Therapists (DHATs)  
Principal Investigators: D. Chi  
Granting Agency: Pew Charitable Trust      Grant Period: 07/1/16-06/31/17      Total Direct Costs: \$125,000  
Role: Biostatistician                      Percent Effort: 10%

### Previous Activity

1. **Grant Title:** Prospective and Retrospective Analyses of Regenerative Treatment Outcomes in Immature Permanent Teeth  
Co-Principal Investigators: Flake, Khan and Gibbs  
Granting Agency: AAE                      Grant Period: 01/01/14-12/31/16      Total Direct Costs: \$100,000  
Role: Biostatistician                      Percent Effort: 10%
2. **Grant Title:** Sugar Sweetened Beverages and Recurrent Severe Early Childhood Caries  
Co-Principal Investigators: J. Cunha-Cruz and P. Milgrom  
Granting Agency: NIH                      Grant Period: 08/01/15-07/31/16      Total Direct Costs: \$231,750  
Role: Biostatistician                      Percent Effort: 5%
3. **Grant Title:** Northwest Center to Reduce Oral Health Disparities (U45)  
Principal Investigator: P. Milgrom  
Granting Agency: NIH/NIDCR              Grant Period: 9/19/08-5/31/14      Total Direct Costs: \$1,681,970  
Role: PI, Statistics & Data              Percent Effort: 15%-40%  
Coordinating Center
4. **Grant Title:** Dental Homes for Medicaid – Enrolled Children with Autism Spectrum Disorders in the Iowa I-Smile Program  
Principal Investigator: D. Chi  
Granting Agency: MCHB/HRSA              Grant Period: 09/01/13-08/31/14      Total Direct Costs: \$64,718  
Role: Biostatistician                      Percent Effort: 5%
5. **Grant Title:** Data Coordinating Center for the Pacific Northwest DPBRN  
Principal Investigator: B. Leroux  
Granting Agency: NIH/NIDCR              Grant Period: 4/01/05-3/31/14      Total Direct Costs: \$7,466,134  
Role: Co-Investigator                      Percent Effort: 15%-40%
6. **Grant Title:** Diffusion of Anticipatory Guidance to Prevent ECC Disease Transmission: Secondary Analysis of a Dataset From Oregon Care Provider Study  
Principal Investigator: P. Milgrom & D. Grembowski  
Granting Agency: NIH/NIDCR              Grant Period: 4/1/11-3/31/13      Total Direct Costs: \$200,000  
Role: Biostatistician                      Percent Effort: 5%
7. **Grant Title:** The 3D Immersive display: Validation of a virtual reality technique for pain control  
Principal Investigator: Rose  
Granting Agency: NIH                      Grant Period: 09/15/12-03/14/13  
Role: Biostatistician                      Percent Effort: 5%
8. **Grant Title:** Psychosocial Intervention for Children with Inflammatory Bowel Disease  
Principal Investigator: R. Levy  
Granting Agency: NIH                      Grant Period: 9/28/07-6/30/13      Total Direct Costs: \$1,278,278  
Role: Biostatistician                      Percent Effort: 5%
9. **Grant Title:** Clinical, Public Health & Behavioral Oral Health Researching Training for Thailand  
Principal Investigator: T. DeRouen

- Granting Agency: NIH/NIDCR      Grant Period: 10/01/06-9/30/11  
 Role: Mentor      Percent Effort: 0%
10. **Grant Title:** International Collaborative Research to Develop Quantitative Sensory Testing Guidelines for Intraoral Pain Conditions  
 Principal Investigator: M. Drangsholt  
 Granting Agency: NIH/NIDCR      Grant Period: 8/12/08-6/30/11      Total Direct Costs: \$127,440  
 Role: Biostatistician      Percent Effort: 10%
11. **Grant Title:** PVP-Iodine and Fluoride Varnish to Reduce Caries in High Risk Children (R40)  
 Principal Investigator: K. Ly  
 Granting Agency: DHHS/HRSA      Grant Period: 2/10/10-1/31/13      Total Direct Costs: \$189,485  
 Role: Biostatistician      Percent Effort: 10%
12. **Grant Title:** Hormonal Cycles in Women: Effects on TMD Pain and Symptoms (R01)  
 Principal Investigator: L. LeResche  
 Granting Agency: NIH/NIDCR      Grant Period: 9/15/04-6/30/09  
 Role: Biostatistician      Percent Effort: 15%-25%
13. **Grant Title:** Fluoride Varnish to Prevent Caries in Toddlers – An Expanded Immunization Program  
 Principal Investigator: P. Milgrom  
 Granting Agency: NIH/NIDCR      Grant Period: 7/1/07-6/30/09      Total Direct Costs: \$479,785  
 Role: Biostatistician      Percent Effort: 15%-20%
14. **Grant Title:** Northwest Alaska Center to Reduce Oral Health Disparities (U54)  
 Principal Investigator: P. Milgrom  
 Granting Agency: NIH/NIDCR      Grant Period: 8/1/01-7/31/08      Total Direct Costs: \$9,575,662  
 Role: Biostatistician      Percent Effort: 5-10%
15. **Grant Title:** Fluoride Varnish in High Caries Pre-Schoolers (R01)  
 Principal Investigator: P. Weinstein  
 Granting Agency: NIH/NIDCR      Grant Period: 8/8/03-4/30/08      Total Direct Costs: \$2,249,566  
 Role: Biostatistician      Percent Effort: 10%
16. **Grant Title:** Research Diagnostic Criteria: Reliability and Validity (U01)  
 Principal Investigator: E. Schiffman, E. Truelove  
 Granting Agency: NIH/NIDCR      Grant Period: 7/1/01-3/31/07  
 Role: Biostatistician      Percent Effort: 5%-10%
17. **Grant Title:** Statistical Methods for Dental Research (R01)  
 Principal Investigator: L. Leroux  
 Granting Agency: NIH/NIDCR      Grant Period: 8/20/04-6/30/07      Total Direct Costs: \$515,293  
 Role: Co-investigator      Percent Effort: 15%-20%
18. **Grant Title:** TMD Longitudinal Studies: Clinical/Chronic Pain Syndromes (Scientific Core–P01)  
 Principal Investigator: L. LeResche  
 Granting Agency: NIH/NIDCR      Grant Period: 9/30/99-8/31/06      Total Direct Costs: \$4,260,420  
 Role: Biostatistician      Percent Effort: 15%-50%      (\$739,869)
19. **Grant Title:** Trial of Oramelts with Licorice Extract for the Treatment of Minor Recurrent Aphthous Ulcers (R41)  
 Principal Investigator: M. Martin, J. Sherman  
 Granting Agency: NIH/NIDCR      Grant Period: 9/1/04-1/31/05      Total Direct Costs: \$98,447  
 Role: Biostatistician      Percent Effort: 5%
20. **Grant Title:** Menstrual Cycle Effects on TMD Pain and Other Symptoms (R01)  
 Principal Investigator: L. LeResche  
 Granting Agency: NIH/NIDCR      Grant Period: 9/20/98-9/19/04      Total Direct Costs: \$1,383,246  
 Role: Biostatistician      Percent Effort: 10%-15%
21. **Grant Title:** Comprehensive Oral Health Research Center of Discovery (Biometry Core–P60)  
 Principal Investigator: T.A. DeRouen (B.G. Leroux)  
 Granting Agency: NIH/NIDCR      Grant Period: 8/1/99-7/31/04      Total Direct Costs: \$7,517,485  
 Role: Biostatistician      Percent Effort: 5-10%      (\$668,384)
22. **Grant Title:** Development of a Vaccine for Human Periodontitis (R01)  
 Principal Investigator: R.C. Page  
 Granting Agency: NIH/NIDCR      Grant Period: 9/20/99-7/31/02      Total Direct Costs: \$453,625  
 Role: Biostatistician      Percent Effort: 10%
23. **Grant Title:** International Collaborative Oral Health Research Planning Grant (R21)

- Principal Investigator: SF. Dworkin  
 Granting Agency: NIH Grant Period: 7/1/00-6/30/02 Total Direct Costs: \$150,000  
 Role: Biostatistician Percent Effort: 5%
24. **Grant Title:** Menstrual Cycle and Blood Pressure Effects on Acute Pain (PA)  
 Principal Investigator: J.J. Sherman  
 Granting Agency: NIH Grant Period: 4/1/00-3/28/02 Total Direct Costs: \$50,000  
 Role: Biostatistician Percent Effort: 5%
25. **Grant Title:** Clinical Dental Research Center (Biometry Core-P30)  
 Principal Investigator: R.C. Page (TA. DeRouen)  
 Granting Agency: NIH/NIDCR Grant Period: 9/30/96-7/31/01 Total Direct Costs: \$1,618,771  
 Role: Biostatistician Percent Effort: 10%-20% (\$457,745)
26. **Grant Title:** Clinical Evaluation of Bonding Agents for Class V Resin Composite Restorations  
 Principal Investigators: T-C. Aw and X. Lepe  
 Granting Agency: 3M Dental Products Grant Period: 12/1/97-6/1/01  
 and Coltene AG  
 Role: Co-Investigator/Biostatistician Percent Effort: 5%
27. **Grant Title:** Humoral Immunity and Periodontal Disease (P01)  
 Principal Investigator: R.C. Page  
 Granting Agency: NIH/NIDR Grant Period: 4/1/95-3/31/00 Total Direct Costs: \$2,454,011  
 Role: Biostatistician Percent Effort: 25%
28. **Grant Title:** TMD Longitudinal Studies: Clinical/Chronic Pain Syndromes (Scientific Core-P01)  
 Principal Investigator: SF. Dworkin (SF. Dworkin)  
 Granting Agency: NIH/NIDR Grant Period: 2/1/94-8/31/99 Total Direct Costs: \$3,035,097  
 Role: Biostatistician Percent Effort: 25% (\$1,013,373)
29. **Grant Title:** Biobehavioral Methods in TMD (R01)  
 Principal Investigator: SF. Dworkin  
 Granting Agency: NIH/NIDR Grant Period: 5/1/94-4/30/99 Total Direct Costs: \$1,441,034  
 Role: Biostatistician Percent Effort: 10%

## Publications

### Peer-Reviewed Journal Publications

- DeRouen TA, Mancl LA, Hujoel P. "Measurement of associations in periodontal diseases using statistical methods for dependent data." *Journal of Periodontal Research*, 26, 218-229, 1991.
- Powell LV, Mancl L, Sneft GD. "Exploration of prediction models for caries risk assessment of the geriatric population." *Community Dentistry and Oral Epidemiology*, 19, 291-295, 1991.
- Prentice RL, Mancl LA. Contribution to the discussion on the paper by GM Fitzmaurice, NM Laird and AG Rotnitzky, "Regression Models for Discrete Longitudinal Responses." *Statistical Science*, 8, 284-309, 1993.
- Raadal M, Milgrom P, Cauce AM, Mancl L. "Behavior problems in 5-11 year old children from low-income families." *Journal of the American Academy of Child and Adolescent Psychiatry*, 33, 1017-1025, 1994.
- Milgrom P, Mancl L, King B, Weinstein P. "Origins of childhood dental fear: Rachman's theory of fear acquisition applied to a specific fear." *Behaviour Research and Therapy*, 33, 313-319, 1995.
- Raadal M, Milgrom P, Weinstein P, Mancl L, Cauce AM. "The prevalence of dental anxiety in children from low income families and its relationship to personality traits." *Journal of Dental Research*, 74, 1439-1443, 1995.
- Robertson PB, DeRouen TA, Ernster V, Grady D, Greene J, Mancl L, McDonald D, Walsh MM. "Smokeless tobacco use and performance of major league baseball players." *Journal of the American Dental Association*, 126, 1115-1120, 1995.
- Golletz D, Milgrom P, Mancl L. "Dental care satisfaction: The reliability and validity of the DSQ in a low-income population." *Journal of Public Health Dentistry*, 55, 210-217, 1995.
- DeRouen TA, Hujoel PP, Mancl LA. "Statistical issues in periodontal research." *Journal of Dental Research*, 74, 1731-1737, 1995.
- Miller JR, Mancl L, Arbuckle G, Baldwin J, Phillips RW. "A three-year clinical trial using a glass ionomer cement for the bonding of orthodontic brackets." *The Angle Orthodontist*, 66, 309-312, 1996.
- Mancl LA, Leroux B.G. "Efficiency of regression estimates for clustered data." *Biometrics*, 52, 500-511, 1996.
- Milgrom P, Mancl L, King B, Weinstein P, Wells N, Jeffcott E. "An explanatory model of the dental care utilization of low income children." *Medical Care*, 36, 554-566 1998. (**Giddon Award** for Distinguished Research in the

Behavioral Sciences. Awarded by the Behavioral Sciences and Health Services Research Group of the International Association of Dental Research, 1999.)

13. Sims TJ, Mancl LA, Braham PH, Bainbridge BW, Page RC. "Antigenic variation and cross-reactivity in *Bacteriodes forsythus* clinical isolates detected by Western blot." *Journal of Clinical Immunology*, 18, 355-367, 1998.
14. Sims TJ, Mancl LA, Braham PH, Page RC. "Antigenic variation in *Bacteriodes forsythus* detected by checkerboard ELISA." *Clinical and Diagnostic Laboratory Immunology*, 5, 725-732, 1998. PMID: PMC95647
15. Mancl LA, Leroux BG, DeRouen TA. "Between-subject and within-subject statistical information in dental research." *Journal of Dental Research*, 79, 1778-1781, 2000.
16. Nakai Y, Milgrom P, Mancl L, Coldwell SE, Domoto PK, Ramsay DS. "Effectiveness of local anesthesia in pediatric dental practice." *Journal of the American Dental Association*, 131, 1699-1705, 2000.
17. Indorf C, Sherry B, Mancl L. "Comparisons of Yupik infant growth measurements with NCHS/CDC reference data." *Alaska Medicine*, 43, 6-12, 2001.
18. Mancl LA, DeRouen TA. "A covariance estimator for GEE with improved small sample properties." *Biometrics*, 57, 126-134, 2001.
19. Turner JA, Dworkin SF, Mancl L, Huggins, KH, Truelove, EL. "The roles of beliefs, catastrophizing, and coping in the functioning of patients with temporomandibular disorders." *Pain*, 92, 41-51, 2001.
20. Jurevic RJ, Chrisman P, Mancl L, Livingston R, Dale BA. "Single-nucleotide polymorphisms and haplotype analysis in  $\beta$ -defensin genes in different ethnic populations." *Genetic Testing*, 6, 261-269, 2002.
21. Dworkin SF, Huggins KH, Wilson L, Mancl L, Turner J, Massoth D, LeResche L, Truelove, E. "A randomized clinical trial using research diagnostic criteria for temporomandibular disorders – Axis II to target clinic cases for a tailored self-care TMD treatment program." *Journal of Orofacial Pain*, 16, 48-63, 2002. (**Giddon Award** for Distinguished Research in the Behavioral Sciences. Awarded by the Behavioral Sciences and Health Services Research Group of the International Association of Dental Research, 2003.)
22. Dworkin SF, Sherman J, Mancl L, Ohrbach RT, LeResche L, Truelove E. "Reliability, validity and clinical utility of RDC/TMD Axis II scales: Depression, non-specific physical symptoms and graded chronic pain." *Journal of Orofacial Pain*, 16, 207-220, 2002.
23. John MT, Hirsch C, Drangsholt M, Mancl LA, Setz JM. "Overbite/overjet are not related to temporomandibular disorders." *Journal of Dental Research*, 81, 164-169, 2002.
24. Page RC, Krall EA, Martin J, Mancl L, Garcia RT. "Validity and accuracy of a risk calculator for future periodontal disease." *Journal of the American Dental Association*, 133, 569-576 2002.
25. Sims TJ, Lemmark A, Mancl LA, Schifferle RE, Smith T, Page RC, Persson GR. "Serum IgG to heat shock proteins and Porphyromonas gingivalis antigens in diabetic patients with periodontitis." *Journal of Clinical Periodontology*, 29, 551-562, 2002.
26. Aw TC, Lepe X, Johnson GH, Mancl LA. "Characteristics of Non-cariou Cervical Lesions: A Clinical Investigation". *Journal of the American Dental Association*, 133, 725-733, 2002.
27. Bhanji S, Williams B, Sheller B, Elwood T, Mancl L. "Transient bacteremia induced by toothbrushing: A comparison of the Sonicare toothbrush versus a conventional toothbrush." *Pediatric Dentistry*, 24, 295-299, 2002. (**Graduate Student Research Award**. Awarded by the American Academy of Pediatric Dentistry, 2002).
28. Dworkin SF, Turner JA, Mancl L, Wilson L, Massoth D, Huggins KH, LeResche L, Truelove E. "A randomized clinical trial of a tailored comprehensive care treatment program for temporomandibular disorders." *Journal of Orofacial Pain*, 16, 259-76, 2002.
29. Rammelsburg P, LeResche L, Dworkin S, Mancl L. "Longitudinal outcome of TMD: A five-year epidemiological study of muscle disorders defined by RDC/TMD." *Journal of Orofacial Pain*, 17, 9-20, 2003.
30. Persson GR, Mancl LA, Martin J, Page RC. "Assessing periodontal disease risk: A comparison of clinician's assessment versus a computerized tool." *Journal of the American Dental Association*, 134, 575-582, 2003.
31. Page RC, Martin J, Krall EA, Mancl L, Garcia R. "Longitudinal validation of a risk calculator for periodontal disease." *Journal of Clinical Periodontology*, 30, 819-827, 2003.
32. Sheller B, Williams BJ, Hays K, Mancl L. "Reasons for repeat dental treatment under general anesthesia for the healthy child." *Pediatric Dentistry*, 25, 546-552, 2003.
33. LeResche L, Mancl L, Sherman JJ, Gandara B, Dworkin SF. "Changes in temporomandibular pain and other symptoms across the menstrual cycle." *Pain*, 106, 253-261, 2003.
34. Mancl LA, Hujoel PP, DeRouen TA. "Efficiency issues among statistical methods for demonstrating efficacy of caries prevention – site versus subject." *Journal of Dental Research*, 83 (Special Issue C), C95-C98, 2004.
35. Roberts FA, Houston LS, Lukehart SA, Mancl LA, Persson GR, Page RC. "Periodontitis vaccine decreases local prostaglandin E<sub>2</sub> levels in a primate model." *Infection and Immunity*, 72, 1166-1168, 2004. PMID: PMC321623

36. Aaron L, Mancl L, Turner J, Sawchuk C, Klein K. "Reasons for missing interviews in the daily electronic assessment of pain, mood, and stress." *Pain*, 109,389-398, 2004.
37. Epstein JB, Truelove EL, Huggins KH, Mancl LA, Chen A, Press OW, Petersdorf SH, Fritsche TR, Epstein JD. "Topical polyene antifungals in hematopoietic cell transplant patients: tolerability and efficacy." *Support Care Cancer*, 12, 517-525, 2004.
38. Turner JA, Mancl L, Aaron LA. "Pain-related catastrophizing: a daily process study." *Pain*, 110, 103-111, 2004.
39. Baier, K, Milgrom P, Mancl L. "Children's fear and behavior in private pediatric dentistry practices." *Pediatric Dentistry*, 26, 316-321, 2004.
40. Sherman JJ, LeResche L, Huggins KH, Mancl LA, Sage JC, Dworkin SF. "The relationship of somatization and depression to experimental pain response in women with temporomandibular disorders", *Psychosomatic Medicine*, 66, 852-860, 2004.
41. Aw TC, Lepe X, Johnson G, Mancl L. "One-year clinical evaluation of an ethanol-based and solvent-free dentin adhesive." *American Journal of Dentistry*, 17, 451-456, 2004.
42. Woo D, Sheller B, Williams B, Mancl L. "Dentists' and parents' perceptions of health, esthetics, and treatment of maxillary primary incisors." *Pediatric Dentistry*, 27, 19-23, 2005.
43. Pawlowski AP, Chen A, Hacker BM, Mancl LA, Page RC, Roberts FA. "Clinical effects of scaling and root planning on untreated teeth." *Journal of Clinical Periodontology*, 32, 21-28, 2005.
44. Aaron LA, Turner JA, Mancl L, Brister H, Sawchuk CN. "Electronic diary assessment of pain-related variables: Is reactivity a problem?" *Journal of Pain*, 6, 107-115, 2005.
45. Aw, TC, Lepe X, Johnson GH, Mancl LA. "Three-year clinical evaluation of two-bottle vs. one-bottle dentin adhesives." *Journal of the American Dental Association*, 136, 311-322, 2005.
46. Sherman JJ, LeResche L, Mancl LA, Huggins KH, Sage JC, Dworkin SF. "Cyclic effects on experimental pain response in women with TMD." *Journal of Orofacial Pain*, 19, 133-143, 2005.
47. LeResche L, Sherman JJ, Huggins KH, Saunders K, Mancl LA, Lentz G, Dworkin SF. "Musculoskeletal orofacial pain and other signs and symptoms of temporomandibular disorders during pregnancy: prospective study." *Journal of Orofacial Pain*, 19, 193-201, 2005.
48. Hirsch C, John MT, Drangsholt MT, Mancl LA. "Relationship between overbite/overjet and clicking or crepitus of the temporomandibular joint." *Journal of Orofacial Pain*, 19, 218-225, 2005.
49. Turner JA, Brister H, Huggins K, Mancl L, Aaron LA, Truelove EL. "Catastrophizing is associated with clinical examination findings, activity interference, and health care use among patients with temporomandibular disorders (TMD)." *Journal of Orofacial Pain*, 19, 291-300, 2005.
50. Turner JA, Mancl L, Aaron LA. "Brief cognitive-behavioral therapy for temporomandibular disorder pain: Effects on daily electronic outcome and process measures." *Pain*, 117, 377-387, 2005.
51. John MT, Dworkin SF, Mancl LA. "Reliability of clinical temporomandibular disorder diagnoses." *Pain*, 118, 61-69, 2005.
52. LeResche L, Mancl LA, Drangsholt MT, Saunders K, Von Korff M. "Relationship of pain and symptoms to pubertal development in adolescent." *Pain*, 118, 201-209, 2005.
53. Miller JR, Mancl L, Critchlow C. "Severe retrognathia as a risk factor for recent onset painful TMJ disorders among adult females." *Journal of Orthodontics*, 32, 249-256, 2005.
54. Leroux BG, Mancl LA, DeRouen TA. "Group sequential testing in dental clinical trials with longitudinal data on multiple outcome variables." *Statistical Methods in Medical Research*, 14, 591-602 2005.
55. Rowley ST, Sheller B, Williams BJ, Mancl L. "Pediatric dental emergencies: Patient characteristics, social, and economic factors." *Pediatric Dentistry*, 28, 10-17, 2006.
56. Turner JA, Mancl L, Aaron LA. "Short- and long-term efficacy of brief cognitive-behavioral therapy for patients with chronic temporomandibular pain: a randomized, controlled trial." *Pain*, 121, 181-194, 2006.
57. Brister H, Turner JA, Aaron LA, Mancl L. "Self-efficacy is associated with pain, functioning, and coping in patients with chronic temporomandibular disorder pain." *Journal of Orofacial Pain*, 20, 115-124, 2006.
58. Aaron LA, Turner JA, Mancl LA, Sawchuk CN, Huggins KH, Truelove EL. "Daily pain coping among patients with chronic temporomandibular disorder pain: An electronic diary study." *Journal or Orofacial Pain*, 20, 125-127, 2006.
59. Richardson LP, Garrison MM, Drangsholt M, Mancl L, LeResche L. "Associations between depression and obesity during puberty." *General Hospital Psychiatry*, 28, 313-320, 2006.
60. Truelove E, Huggins KH, Mancl L, Dworkin SF. "The efficacy of traditional, low-cost and nonsplint therapies for temporomandibular disorder. A randomized controlled trial." *Journal of the American Dental Association*, 137, 1099-1107, 2006.

61. Smith JM, Wong CS, Salamonik EB, Hacker BM, McDonald RA, Mancl LA, Williams BJ, Ibrahim A, Roberts FA. "Sonic tooth brushing reduces gingival overgrowth in renal transplant recipients." *Pediatric Nephrology*, 21, 1753-1759, 2006.
62. Nam J, Raigrodski AJ, Townsend J, Lepe X, Mancl LA. "Assessment of preference of mixing techniques and duration of mixing and tray loading for two viscosities of vinyl polysiloxane materials." *Journal of Prosthetic Dentistry*, 97, 12-17, 2007.
63. Turner JA, Holtzman S, Mancl L. "Mediators, moderators, and predictors of therapeutic change in cognitive-behavioral therapy for chronic pain." *Pain*, 127, 276-286, 2007.
64. Saunders K, Von Korff M, LeResche L, Mancl L. "Relationship of common pain conditions in mothers and children." *The Clinical Journal of Pain*, 23, 204-213, 2007.
65. Gandara BK, LeResche L, Mancl L. "Patterns of salivary estradiol and progesterone across the menstrual cycle." *Annals of the New York Academy of Sciences*, 1098, 4446-450, 2007. PMID: PMC2096416
66. LeResche L, Mancl LA, Drangsholt MT, Huang G. "Predictors of onset of facial pain and temporomandibular disorders in early adolescents." *Pain*, 129, 269-278, 2007. PMID: PMC1979093 (IADR **Aubrey Sheiham Award** for Distinguished Research in Dental Public Health Sciences, 2008)
67. Page RC, Lantz MS, Darveau R, Jeffcoat M, Mancl L, Houston L, Braham P, Persson GR. "Immunization of *Macaca fascicularis* against experimental periodontitis using a vaccine containing cysteine proteases purified from *Porphyromonas gingivalis*." *Oral Microbiology Immunology*, 22, 162-168, 2007.
68. Marshall J, Sheller B, Mancl L, Williams BJ, Cowan C. "Cooperation predictors for autistic dental patients." *Pediatric Dentistry*, 29, 369-376, 2007. PMID: 18027770
69. Stapleton MF, Sheller B, Williams BJ, Mancl L. "Combining pediatric dental treatment in the OR with other procedures." *Pediatric Dentistry*, 29, 397-402, 2007. PMID: 18027774
70. DeRouen TA, Hujoel P, Leroux B, Mancl L, Sherman J, Hilton T, Berg J, Ferracane J. for the Northwest Practice-based Research Collaborative in Evidence-based Dentistry (PRECEDENT). "Preparing practicing dentists to engage in practice-based research." *Journal of the American Dental Association*, 139, 339-345, 2008. PMID: PMC3643299
71. Marshall J, Sheller B, Mancl L, Williams BJ. "Parental Attitudes Regarding Behavior Guidance of Autistic Dental Patients." *Pediatric Dentistry*, 30, 400-407, 2008. PMID: 18942599
72. Ashkanani HM, Raigrodski AJ, Flinn BD, Heindl H, Mancl LA. "Flexural and shear strengths of ZrO<sub>2</sub> and a high-noble alloy bonded to their corresponding porcelains." *Journal of Prosthetic Dentistry*, 2008; 100:274-284. PMID: 18922256
73. Miller JR, Mancl LA. "Risk factors for the occurrence and prevention of temporomandibular joint and muscle disorders: Lessons from two recent studies." *American Journal of Orthodontics and Dentofacial Orthopedics*, 134, 537-542, 2008. PMID: 18929271
74. Milgrom P, Ly KA, Tut OK, Mancl L, Roberts M, Briand K, Gancio MJ. "Xylitol pediatric topical oral syrup to prevent dental caries: a double-blind randomized clinical trial of efficacy." *Arch Pediatr Adolesc Med*, 2009;163(7):601-7. (IADR **Aubrey Sheiham Award** for Distinguished Research in Dental Public Health Sciences, 2010). PMID: PMC2722805
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81. Hilton T, Cunha-Cruz J, Trantow M, Zhou L, Mancl L. "Reasons for dental visits among general practices in Northwest PRECEDENT." *Journal of Dental Research*, 88 (Special Issue A): 1247, 2009 ([www.dentalresearch.org](http://www.dentalresearch.org)).
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83. Rothen M, Mancl L, Leroux B, Marshall D, Berg J, Northwest PRECEDENT. "Toothbrushing behaviors and caries prevalence in Northwest PRECEDENT patients." *Journal of Dental Research*, 89 (Special Issue A): 765, 2010 ([www.dentalresearch.org](http://www.dentalresearch.org)).
84. Cunha-Cruz J, Johnston G, Zhou L, Mancl L, Rothen M, Berg. "Dental caries experience and income of adults visiting general practices." *Journal of Dental Research*, 89 (Special Issue B): 1554, 2010 ([www.dentalresearch.org](http://www.dentalresearch.org)).
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91. Hilton T, Mancl L, Coley Y, Baltuck C, Ferracane JL, Peterson J, N. Precedent. "Initial treatment recommendations for cracked teeth in Northwest PRECEDENT." *Journal of Dental Research*, 90 (Special Issue A): 2387, 2011 ([www.dentalresearch.org](http://www.dentalresearch.org)).
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98. Weinstein P, Riedy CA, Garson G, Mancl L. "Fidelity of a prenatal motivational counseling intervention: Baby Smiles study." *Journal of Dental Research*, 91 (Special Issue A): 624, 2012 ([www.dentalresearch.org](http://www.dentalresearch.org)).
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101. Flinn BD, Singh AJ, Mancl LA, Raigrodski A. "Low temperature degradation of three Zirconia's." *Journal of Dental Research*, 91 (Special Issue B): 189, 2012 ([www.dentalresearch.org](http://www.dentalresearch.org)).
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103. Rothen M, Cunha-Cruz J, Zhou L, Mancl L, Scott J, Berg J and N.W. Precedent. "Salivary characteristics in caries risk assessment." *Journal of Dental Research*, 92 (Special Issue A): 325, 2013 ([www.dentalresearch.org](http://www.dentalresearch.org)).
104. Riedy C, Weinstein P, Garson G, Mancl L, Huebner CE, and Milgrom P. "Self-reported prenatal dental utilization and readiness to visit: Baby Smiles." *Journal of Dental Research*, 92 (Special Issue A): 3209, 2013 ([www.dentalresearch.org](http://www.dentalresearch.org)).
105. Flinn BD, Raigrodski AJ, Mancl L, Toivola R, Kuykendall, Chen Y. "Influence of aging on flexural strength of translucent zirconia ceramics." *Journal of Dental Research*, 93 (Special Issue A): 166, 2014 ([www.dentalresearch.org](http://www.dentalresearch.org)).
106. Dogan S, Schwedhelm ER, Mancl L, Heindl H. "Comparison of new self-warming VPS impression material to gold-standard VPS." *Journal of Dental Research*, 93 (Special Issue A): 1433, 2014 ([www.dentalresearch.org](http://www.dentalresearch.org)).
107. Rudolf G, Walsh J, Plawman A, Gianutsos P, Alto W, Mancl L, Rudolf V. "Non-opioid protocol for opioid detoxification and/or transition to antagonist treatment", *Journal of Addiction Medicine*, 8 (4): E10, 2014.
108. Levy R, Langer SL, Romano J, Mancl LA, Murphy T, Walker LS, van Tilburg MA, DuPen M, Feld SI, Abdullah B, Whitehead WE. Results of a Large RCT Testing the Effect of Cognitive Behavior Therapy on School Absences, Quality of Life and Flares in Pediatric IBD. *Gastroenterology*, 148(4): S71-S71.

#### Other Abstracts

1. Turner J, Brister L, Aaron L, Mancl L, Huggins K, Truelove E. Association of self-efficacy with pain, functioning, and coping among patients with temporomandibular disorder pain. American Pain Society, 2005 ([www.ampainsoc.org](http://www.ampainsoc.org)).
2. Benton T, Weinstein P, Mancl L. Oral health in rural Hispanic-American children: How far have we come? American Public Health Association, 2005 ([www.apha.org](http://www.apha.org)).

#### Technical Reports

1. Mancl LA, DeRouen TA. "Small sample properties of generalized estimating equation methods relevant to clinical studies of periodontal disease." Biometry Core Technical Report No. 9402, Seattle, WA: Regional Clinical Dental Research Center of the University of Washington, 1994.
2. Mancl LA. "GEEPLUS SAS macro for regression modeling of correlated and longitudinal data (Version 1)." Biometry Core Technical Report No. 9503, Seattle, WA: Regional Clinical Dental Research Center of the University of Washington, 1995.
3. Mancl LA, Leroux BG. "Efficiency of regression estimates for clustered data." Biometry Core Technical Report No. 9501, Seattle, WA: Regional Clinical Dental Research Center of the University of Washington, 1995.

- Mancl L, Whitney C, Zhu X. "A SAS computer program to evaluate the research diagnostic criteria for classification of temporomandibular disorders." Biometry Core Technical Report No. 9401 (Corrected), Seattle, WA: Regional Clinical Dental Research Center of the University of Washington, 1999.

## Presentations

### National and International Meetings

- Mancl LA, Prentice RL. "Evaluation of estimating equation approaches for mean and covariance parameter estimation." Annual Meeting of the American Statistical Association, San Francisco, CA, August 1993.
- Mancl LA, DeRouen TA. "Small sample performance of GEE statistical methods in periodontal studies." IADR, Seattle, WA, March 1994.
- Mancl LA, Leroux BG, DeRouen TA. "A potential problem in regression modeling with correlated data from periodontal studies?" EPI Forum of NIDR Oral Epidemiology and Biostatistics Fellows, San Antonio, TX, March 1995.
- Mancl LA, Leroux BG. "Evaluation of between- and within-subject effects for the analysis of clustered data." Annual Meeting of the American Statistical Association, Dallas, TX, August 1998.
- Persson GR, Page RC, Mancl LA, Martin JA. "Expert validation of a risk calculator for future periodontal disease." IADR/AADR, San Diego, CA, 2002.
- Mancl LA. "Longitudinal studies of orofacial pain: Findings and statistical considerations." Symposium on Longitudinal Studies of Orofacial Pain: Challenges and New Findings. IADR/AADR, Baltimore, MD, 2005.
- Mancl L, Berg J, Cunha-Cruz J, Brossel K, Scott J, Wilson N, N.W. Precedent. "Association between medication usage and saliva characteristics." IADR/AADR/CADR, 89<sup>th</sup> General Session, San Diego, CA, 2011.

### Invited Talks

- Mancl L, Hujoel P, DeRouen TA. "Efficiency issues among statistical methods for demonstrating efficacy of caries prevention – site versus subject." International Consensus Workshop on Caries Clinical Trials (ICW-CCT), Scotland, January, 2002.
- Mancl LA, DeRouen TA, Leroux BG, Spiekerman C, Hujoel P. "Use of generalized estimating equations (GEE) for analysis of correlated data in dental research." Workshop, Proctor & Gamble, Cincinnati, OH, November, 2002.
- Mancl L. "Fundamentals of Biostatistics." The 2<sup>nd</sup> UW/TU/KKU Workshop on Clinical Research Methods in Oral Health, Phuket, Thailand, September 2009.
- Mancl L, Spiekerman C. "Advance Regression Methods" IADR Academy/Satellite Symposium: Updates in Clinical Research Methodology. IADR/AADR, Seattle, WA 2013.

### Other Scientific Presentations

- Mancl LA, Leroux BG. "Effect of correlation structure on relative efficiency of regression estimates for clustered data." Winter Meeting of the American Statistical Association, Raleigh, NC, January 1995.
- Mancl LA. "Impact of between- and within-subject effects on the evaluation of risk factors and treatments for periodontal disease." Task Force on Design and Analysis, Newark, NJ, May 1998.

### Teaching Responsibilities

2016 (Summer Qtr.)	BIOST 579 2 credits	Complete responsibilities
2016 (Spring Qtr.)	BIOST 310 4 credits	Complete responsibilities
2012-2016 (Summer Qtr)	UCONJ 510 2 credits	Complete responsibilities
2012-2016 (Winter Qtr.)	BIOST 502 4 credits	Complete responsibilities
2012-2016 (Fall Qtr.)	BIOST 503 3 credits	Complete responsibilities
2009-2016 (Fall Qtr)	RES D 570	Assisted by giving two lectures
2016 (Summer Qtr.)	Behavioral Methods, Summer Institute in Clinical Dental Research Methods	Assisted by giving one lecture
1995-2011 (Summer Qtr.)	BIOST 503 4 credits	Complete responsibilities
2002-2010 (Summer Qtr.)	BIOST 502 4 credits	Complete responsibilities
2002-2004 (Summer Qtr.)	DPHS 550 2 credits	Assisted by giving two lectures
1997-2001 (Summer Qtr.)	DPHS 569 2 credits	Assisted by giving two lectures
1993-1995 (Summer Qtr.)	Data Analysis Workshop, Summer Institute in Clinical Dental Research Methods	Complete responsibilities

### Dissertation and Thesis Committees

Julie Stoner (Biostatistics Dissertation, 1999-2000)  
 Dawn Woo (Pediatric Dentistry Thesis, 2000-2001)  
 Allison Laks (Health Services Thesis, 2000-2001)  
 Shamsi Bhangi (Pediatric Dentistry Thesis, 2000-2001)  
 Krista Baier (Pediatric Dentistry Thesis, 2001-2002)  
 John Barrett (Health Services Thesis, 2001-2002)  
 Connie Nakano (Health Services Thesis, 2001-2003)  
 Scott Rowley (Pediatric Dentistry Thesis, 2003-2004)  
 Jennifer Marshall (Pediatric Dentistry Thesis, 2003-2004)  
 George Michael (Orthodontic Thesis, 2003-2005)  
 Erik Landaas (Health Services Thesis, 2003-2005)  
 Kristen Johannsen (Pediatric Dentistry Thesis, 2004-2005)  
 Victoria Vu (Pediatric Dentistry Thesis, 2004-2005)  
 Kate Slotnick (Health Services Thesis, 2006)  
 Amy Leudemann (Pediatric Dentistry Thesis, 2005-2007)  
 Crystal Gust (Health Services Thesis, 2006-2008)  
 Emily Jo Rajotte (Health Services Thesis, 2007)  
 Athena Seegert (Pediatric Dentistry Thesis, 2007-2008)  
 Carrie Trujillo (Health Services Thesis, 2007-2009)  
 Shukan Kanuga (Pediatric Dentistry Thesis, 2007-2009)  
 Azita Kamkar (Health Services Thesis, 2007-2009)  
 Deborah Hoyer (Health Services Thesis, 2009-2010)  
 Cara Mudd (Pediatric Dentistry Thesis, 2008-2010)  
 Gillian Schauer (Health Services Thesis, 2009-2010)  
 Lynne Gordon (Health Services Thesis, 2009-2010)  
 Mona Chen (Prosthodontics Thesis, 2010)  
 Sandy Bodner (Health Services Thesis, Chair, 2010-2011)  
 Sharareh Tajbakhsh (Prosthodontics Thesis, 2009-2011)  
 Richard Ansong (Prosthodontics Thesis, 2011-2012)  
 Junping Bergen (Prosthodontics Thesis, 2012)  
 Cris Pinzon (Health Thesis, 2012-2013)  
 Salima Alibhai (Health Services Thesis, Chair, 2012-2013)  
 Sumeia Werfallis (Oral Medicine Thesis, 2012-2013)  
 Mohamed Abdi (Health Services Capstone, Chair, 2013)  
 Nour Chida (Health Services Thesis, 2013-2014)  
 Satoshi Go (Prosthodontics Thesis, 2013)  
 Otani Takafumi (Prosthodontics Thesis, 2013-2014)  
 Vania Rudolf (Health Services Thesis, Chair, 2013-2014)  
 Miranda Davis (Health Services Thesis, Chair, 2012-2014)  
 Cynthia Jackson (Health Services Thesis, 2012-2014)  
 Donna Chow (Health Services Thesis, 2012-2014)  
 Erin Masterson (Epidemiology Dissertation, 2014-2016)  
 Patty Montgomery (Health Services Thesis, Chair, 2015-2016)  
 Gabrielle Gundersen (Health Services Thesis, 2015-2016)  
 Alaa Alkahateeb (Oral Health Sciences Capstone, 2015-2016)  
 Ahmed Elzawi (Oral Medicine Thesis, 2015-present)  
 Susee Ravuri (Oral Medicine Thesis, 2015-present)  
 Rashmi Mahorta (Oral Medicine Thesis, 2016-present)  
 Maia Thomas (Health Services Thesis, 2016-present)

### **Other Student Mentoring**

Whitey Gibbon (Dental SURF student, 2005-2006)  
 Mark Stapleton (Pediatric Dentistry Thesis, 2006)  
 Yoo-Lee Yea (Pediatric Dentistry Thesis, 2006)  
 Jung Nam (Restorative Density Thesis, 2005-2006)



Mikealy Moore (Dental SURF student, 2006)  
 Hamid Ashkanani (Prosthodontics Thesis, 2007)  
 Kristi Linsenmayer (Pediatric Dentistry Thesis, 2007)  
 Stephen Himley (Health Services Thesis, 2007)  
 Troy Hull (Pediatric Dentistry Thesis, 2008)  
 Ara Ghandhari (Dental SURF student, 2008)  
 Seung Yu (Dental SURF student, 2007-2009)  
 Julia Richman (Pediatric Dentistry Thesis, 2008-2009)  
 Robert Walter (Restorative Dentistry Thesis, 2008-2009)  
 Lisa Heaton (Post-doctoral Fellow, 2009-2013)  
 Donald Chi (Post-doctoral Fellow, 2009-2013)  
 Molly Melbye (Post-doctoral Fellow, 2009-2013)  
 Rachel Thompson (Health Services, Independent Study, Summer 2013, Winter 2014)

### **Committee Service**

Admissions Committee, Executive MPH program, Health Services, School of Public Health, 2001-present  
 (Chair, 2011-2014)  
 Curriculum Committee, Executive MPH program, Health Services, School of Public Health, 2012-2013, 2015-present  
 Research Advisory Committee, School of Dentistry, 2000-2007 (Chair, 2003-2005), 2014-present  
 Information and Technology Committee, School of Dentistry, 2015-present  
 Clinical Study Oversight Committee (CSOC) for Localized Aggressive Periodontitis, NIH/NIDCR (2015-present)  
 Graduate Prosthodontics Program Director Search Committee, School of Dentistry, 2015-present  
 Faculty Council, School of Dentistry (2009-2011, 2012-2014)  
 Clinical Study Oversight Committee (CSOC) for An Implementation and Biobehavioral Study of TMJMD, NIH/NIDCR (2013-2014)  
 Applied Exam Committee, Biostatistics Department, 2008, 2012, 2013-2015 (Grader only 2015)  
 DPHS Chair (Internal) Search Committee, Chair, 2003  
 Hack Estate Endowment Committee, 2002-2005  
 Equipment Allocation Committee, School of Dentistry, 1995

### **Professional Service**

Reviewer for the following Journals:  
*Annals of Applied Statistics*  
*Annals of Statistics*  
*Biometrical Journal*  
*Biometrics*  
*Biometrika*  
*Biostatistics*  
*BMC Musculoskeletal Disorders*  
*BMC Public Health*  
*Caries Research*  
*Communications in Statistics: Theory and Methods*  
*Community Dentistry and Oral Epidemiology*  
*Computational Statistics and Data Analysis*  
*European Journal of Oral Sciences*  
*European Journal of Pain*  
*Infection and Immunity*  
*Journal of the American Statistical Association*  
*Journal of Clinical Epidemiology*  
*Journal of Dental Research*  
*Journal of Educational and Behavioral Statistics*  
*Journal of Orofacial Pain*

*Journal of Periodontal Research*  
*Journal of Periodontology*  
*Journal of Public Health Dentistry*  
*Journal of Statistical Computation and Simulation*  
*Operative Dentistry*  
*Pain*  
*Sankhya, Statistical Modeling*  
*Statistics in Medicine*

**Community Service**

Youth Soccer Coach – Lake City Soccer Club, 1999-2001. LVR Soccer Club, 2001-2015.  
Tutor – Bryant Elementary School, 2001-2002, 2004-2007.

**Consulting**

Pascal Company, Inc., Bellevue, Washington, 1991. Safety and efficacy study of gingival retraction cord.  
Institute of Molecular Biology, Inc., Boston Massachusetts, 1994. Phase I/II periodontal disease study.  
Dental Medicine International, Inc., 2000-2001. Risk calculator for periodontal disease.  
Philips Oral Healthcare, Inc., 2002-2004. Sonicare toothbrush studies.