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CURRICULUM VITAE

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PERSONAL DATA*Home:*

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EDUCATION AND TRAINING

ScD	1996	Harvard University, School of Public Health	Biostatistics
MS	1994	Harvard University, School of Public Health	Biostatistics
MS	1990	Georgia Institute of Technology	Operations Research
BS	1988	University of Pennsylvania	Economics
BS	1988	University of Pennsylvania	Applied Science

PROFESSIONAL EXPERIENCE

2020-	Professor, Department of Computer Science (Secondary Appointment) The Johns Hopkins University, Whiting School of Engineering
2009-	Principal/Senior Biostatistician Military Extremity Trauma Research Consortium (www.metr.org)
2008-	Professor, Department of Biostatistics (Primary Appointment) The Johns Hopkins University, Bloomberg School of Public Health
2003-2012	Director of Graduate Program, Department of Biostatistics The Johns Hopkins University, Bloomberg School of Public Health
2002-2008	Associate Professor, Department of Biostatistics The Johns Hopkins University, Bloomberg School of Public Health
1997-2002	Assistant Professor, Department of Biostatistics The Johns Hopkins University, Bloomberg School of Public Health

PROFESSIONAL EXPERIENCE (continued)

1996-1997 Postdoctoral Research Fellow, Department of Biostatistics
Harvard University, School of Public Health

PROFESSIONAL AFFILIATIONS

Memberships:

American Statistical Association
International Biometric Society
Institute of Mathematical Statistics

PROFESSIONAL ACTIVITIES

2017 Snedecor Award Committee
2009-2010 National Academy Panel on Missing Data
2009-2011 ENAR, Student Paper Competition Committee
2005 FDA/CBER Vaccines and Related Biological Products Advisory Committee –
Herpes Zoster Vaccine (ZOSTAVAX)
2003-2013 NIAID Therapeutic Trials Data and Safety Monitoring Committee
2003-2008 FDA, Special Government Employee
2002-2003 IMS Program Chair for ENAR-2003
1999-2001 ENAR Regional Advisory Board
2000 Visiting Scholar, Department of Biostatistics, University of California at
Berkeley

EDITORIAL ACTIVITIES

2006- 2012 Editorial Board, *Clinical Trials*
2005-2009 Statistical Reviewer, *Journal of the American Medical Association*
1999-2007 Associate Editor, *Biometrics*

Other Peer Reviewed Activities:

American Journal of Epidemiology; Annals of Statistics
Annals of the Institute of Statistical Mathematics;
Applied Statistics; Biometrical Journal; Biometrics
Biometrika; Biostatistics; Clinical Trials; Econometric Reviews
Health Services and Outcomes Research Methodology;
International Journal of Biostatistics;
Journal of the American Medical Association;
Journal of the American Statistical Association;
Journal of the Royal Statistical Society;
Journal of Statistical Inference and Planning;
NSF Grant Proposals; Risk Analysis
Sequential Analysis; Statistica Neerlandica
Statistica Sinica; Statistical Science;
Statistics in Biopharmaceutical Research; Statistics in Medicine

HONORS AND AWARDS

2018-2019	Teaching Excellence Recognition, Essentials of Probability and Statistical Inference
2014	Andrei Yakovlev Colloquium Lecturer, University of Rochester, Department of Biostatistics and Computational Biology
2014-2015	Teaching Excellence Recognition, Advanced Statistical Theory
2012-2013	Teaching Excellence Recognition, Advanced Statistical Theory
2011-2012	Teaching Excellence Recognition, Advanced Statistical Theory
2010	Distinguished Alumni Award, Harvard University, Department of Biostatistics
2010-2011	Teaching Excellence Recognition, Advanced Statistical Theory
2009	Fellow, American Statistical Association
2008-2009	Teaching Excellence Recognition, Advanced Statistical Theory
2003	Advising, Mentoring and Teaching Recognition Award
2002	Golden Apple Award Nominee
2000-2001	Bloomberg School of Public Health's Ho-Ching Yang Memorial Faculty Award
2001	Golden Apple Award Nominee
2000	Advising, Mentoring and Teaching Recognition Award
1999	JASA Theory and Methods, Special Invited Paper
1999	George W. Snedecor Award for Best Paper in Biometry
1997	Travel Award, Statistica Sinica
1995	Student Travel Award, Society for Clinical Trials
1992-1994	National Institutes of Health Training Grant Recipient
1994	Student Travel Award, ENAR
1990	Outstanding Thesis Prize, Georgia Institute of Technology
1990	Summa Cum Laude, Georgia Institute of Technology
1988-1990	Presidential Fellow, Georgia Institute of Technology
1988	Magna Cum Laude, University of Pennsylvania
1988	Beta Alpha Psi Accounting Honor Society

PUBLICATIONS

Journal Articles (indicates publication with a student):*

1. Catalano PJ, **Scharfstein DO**, Ryan LM, Kimmel CA, and Kimmel GL: "Statistical Model for Fetal Death, Fetal Weight, and Malformation in Developmental Toxicity Studies," *Teratology* 47:281-290, 1993.
2. Catalano PJ, Ryan LM, and **Scharfstein DO**: "Modeling Fetal Death and Malformation in Developmental Toxicity Studies," *Risk Analysis* 14: 629-637, 1994.
3. **Scharfstein DO** and Williams PL: "Design of Developmental Toxicity Studies for Assessing the Joint Effects of Dose and Duration," *Risk Analysis* 14:1057-1071, 1994.
4. **Scharfstein DO**, Tsiatis AA and Robins JM: "Semiparametric Efficiency and Its Implication on the Design and Analysis of Group Sequential Studies," *Journal of the American Statistical Association* 92:1342-1350, 1997.

Journal Articles (continued):

5. **Scharfstein DO** and Tsiatis AA: "The Use of Simulation and Bootstrap in Information-Based Group Sequential Studies," *Statistics in Medicine* 17:75-87, 1998.
6. **Scharfstein DO**, Tsiatis AA, and Gilbert, P: "Semiparametric Efficient Estimation in the Generalized Odds-Rate Class of Regression Models for Right-Censored Time to Event Data," *Lifetime Data Analysis*, 4, 355-392, 1998.
7. Rotnitzky A, Robins JM, and **Scharfstein DO**: "Semiparametric Regression for Repeated Outcomes with Non-ignorable Non-response," *Journal of the American Statistical Association*, 93, 1321-1339, 1998.
8. **Scharfstein DO**, Rotnitzky A, and Robins, JM.: "Adjusting for Non-ignorable Drop-out Using Semiparametric Non-response Models (with discussion)," Special Invited Paper for the Theory and Methods Section of *Journal of the American Statistical Association*, 94, 1096-1146, 1999.
9. Guyer B, Hughart N, Strobino D, Jones A, and **Scharfstein DO**: "Assessing the Impact of Pediatric-Based Developmental Services on Infants, Families, and Clinicians: Challenges to Evaluating the Healthy Steps Program," *Pediatrics*, 105:e33, 2000.
10. Robins JM, Rotnitzky A, and **Scharfstein DO**: "Sensitivity Analysis for Selection Bias and Unmeasured Confounding in Missing Data and Causal Inference Models," in *Statistical Models for Epidemiology*, E. Halloran, Editor, Springer-Verlag, p1-94, 2000.
11. *Rotnitzky A, **Scharfstein DO**, Su TL, and Robins JM: "A Sensitivity Analysis Methodology for Randomized Trials with Potentially Non-ignorable Cause-Specific Censoring," *Biometrics*, 57:103-113, 2001.
12. ***Scharfstein DO**, Robins JM, Eddings W and Rotnitzky A: "Inference in Randomized Studies with Informative Censoring and Discrete Time-to-Event Endpoints," *Biometrics*, 57: 404-413, 2001.
13. Minkovitz C, Strobino D, Hughart N, **Scharfstein DO**, and Guyer, B. "Healthy Steps for Young Children Program," *Archives of Pediatrics and Adolescent Medicine*, 155: 475-479, 2001.
14. **Scharfstein DO**, Liang K-Y, Eaton W, and Chen L-S: "The Quadratic Cumulative Odds Regression Model for Scored Ordinal Outcomes: Application to Alcohol Dependence," *Biostatistics*, 2(4)473-483, 2001.
15. **Scharfstein DO** and Robins JM: "Estimation of the Failure Time Distribution in the Presence of Informative Right Censoring," *Biometrika* 89:617-635, 2002.
16. **Scharfstein DO**, Daniels M, and Robins JM: "Incorporating Prior Beliefs About Selection Bias in the Analysis of Randomized Trials with Missing Data," *Biostatistics*, 4: 495-512, 2003.

Journal Articles (continued):

17. **Scharfstein DO** and Irizarry R: "Generalized Additive Selection Models for the Analysis of Non-ignorable Missing Data," *Biometrics*, 59, 601-613, 2003.
18. Minkovitz C, Strobino D, Hughart N, Miller T, **Scharfstein DO**, Bishai D, Guyer B: "Introduction of Developmental Specialists in Pediatrics Practices: Provider Perspectives from Healthy Steps," *Ambulatory Pediatrics*, 3, 295-303, 2003.
19. Minkovitz CS, Hughart N, Strobino D, **Scharfstein DO**, Grason H, Hou, W Miller T, Bishai D, Augustyn M, McLearn KT and Guyer, B: "A Practice-Based Intervention to Enhance Quality of Care in the First Three Years of Life: Results from the Healthy Steps for Young Children Program," *Journal of the American Medical Association*, 290: 3081-3091, 2003.
20. **Scharfstein DO**, Manski CF, and Anthony JC: "On the Construction of Bounds in Prospective Studies with Missing Ordinal Outcomes: Application to the Good Behavior Game Trial," *Biometrics*, 60: 154-164, 2004.
21. Lin H, **Scharfstein DO**, Rosenheck RA: "Analysis of Longitudinal Data with Irregular, Informative Follow-up," *Journal of the Royal Statistical Society, Series B*, 66: 791-813, 2004.
22. McLearn KT, Strobino DM, Hughart N, Minkovitz CS, **Scharfstein DO**, Marks E, Guyer B. "Developmental Services in Primary Care for Low-Income Children: Clinicians' Perceptions of the Healthy Steps for Young Children Program," *Journal of Urban Health*; 81:206-221, 2004.
23. Cotter DJ, Stefanik K, Zhang Y, Thamer M, **Scharfstein DO**, Kaufman J. "Hematocrit was Not Validated as a Surrogate End Point for Survival Among Epoetin-treated Hemodialysis Patients," *Journal of Clinical Epidemiology* 57: 1086-1095, 2004.
24. Minkovitz CS, Strobino D, **Scharfstein DO**, Hou W, Miller T, Mistry KB, and Swartz K: "Maternal Depressive Symptoms and Children's Receipt of Health Care in the First Three Years of Life," *Pediatrics* 115:306-314, 2005
25. Epstein JI, Sanderson H, Carter HB, **Scharfstein DO** "The Utility of Saturation Biopsy to Predict Insignificant Cancer at Radical Prostatectomy," *Urology* 66: 356-60, 2005.
26. *Mackenzie EJ, Rivera FP, Jurkovich GJ, Nathens AB, Frey KP, Egleston BJ, Salkever DS, **Scharfstein DO** "A National Evaluation of the Effect of Trauma Center Care on Mortality," *New England Journal of Medicine* 354: 366-378, 2005.
27. Needham DM, Dennison CR, Dowdy DW, Mendez-Tellez PA, Ciesla N, Desai SV, Sevransky J, Shanholtz C, **Scharfstein DO**, Herridge MS, Pronovost PJ. "Study Protocol: The Improving Care of Acute Lung Injury Patients (ICAP) Study," *Critical Care* 10: R9, 2006.

Journal Articles (continued):

28. Hogan J and **Scharfstein DO**. "Estimating Causal Effects from Multiple Cycle Data in Studies of in vitro Fertilization (IVF)," *Statistical Methods in Medical Research*. 15: 195-209, 2006
29. ***Scharfstein DO**, Halloran ME, Chu H, and Daniels MJ: "On Estimation of Vaccine Efficacy Using Validation Samples with Selection Bias," *Biostatistics*, 7: 615-629, 2006.
30. *Nathens AB, Rivera FP, MacKenzie EJ, Maier RV, Wang J, Eggleston B, **Scharfstein DO**, Jurkovich GJ: "The Impact of an Intensivist-Model ICU on Trauma-Related Mortality," *Annals of Surgery*. 244: 545-554, 2006.
31. *Eggleston B, **Scharfstein DO**, Freeman E, West S: "Causal Inference for Non-morbidity Outcomes in the Presence of Death," *Biostatistics*, 8: 526-545, 2007.
32. *Shardell M, **Scharfstein DO**, Bozzette SA: "Survival Curve Estimation for Informatively Coarsened Discrete Time-to-Event Data," *Statistics in Medicine*, 26: 2184-2202, 2007.
33. Rotnitzky A, Farall A, Bergesio A, **Scharfstein DO**: "Analysis of failure time data under competing censoring mechanisms," *Journal of the Royal Statistical Society, Series B*, 69: 307-327, 2007.
34. *Li X, Caffo B, **Scharfstein DO**: "On the Potential for Ill-logic with Logically Defined Outcomes," *Biostatistics*. 8: 800-804, 2007.
35. Minkovitz CS, Strobino D, Mistry KB, **Scharfstein DO**, Grason H, Hou W, Ialongo N, Guyer B: "Healthy Steps for Young Children: Sustained Results at 5 ½ Years," *Pediatrics*, 120: e658-e668, 2007.
36. Eaton WW, Kalaydjian A, **Scharfstein DO**, Mezuk B, Ding Y: "Prevalence and Incidence of Depressive Disorder: the Baltimore ECA Followup, 1981-2204," *Acta Psychiatrica Scandinavica*, 116: 182-188, 2007.
37. *Mackenzie EJ, Rivara FP, Jurkovich GJ, Nathens AB, Frey KP, Eggleston BL, Salkever DS, Weir S, **Scharfstein DO**: "The National Study of the Costs and Outcomes of Trauma (with discussion)," *Journal of Trauma* 63 (6 Suppl): S54-67, 2007.
38. Rivara FP, MacKenzie EJ, Jurkovich GJ, Nathens AB, Wang J, **Scharfstein DO**: "Prevalence of pain in patients one year following major trauma," *Archives of Surgery*, 143: 282-287, 2008.
39. *MacKenzie EJ, Rivara FP, Jurkovich GJ, Nathens AB, Eggleston BL, Salkever DS, **Scharfstein DO**: "The Impact of Trauma Center Care on One-Year Functional Outcomes Following Major Lower Limb Trauma," *Journal of Bone and Joint Surgery*, 90: 101-109, 2008.

Journal Articles (continued):

40. ***Scharfstein DO**, Ryea JL and Caffo B: "Accounting for Within Patient Correlation in Assessing Relative Sensitivity of an Adjunctive Diagnostic Test," *Statistics in Medicine*, 27: 2110-2126, 2008.
41. Boulton C, Reider L, Frey, K, Leff, B, Boyd CM, Wolff J, Wegener S, Marsteller J, Karm L, **Scharfstein DO**: "The Early Effects of "Guided Care" on the Quality of Health Care for Multi-Morbid Older Persons: A Cluster-Randomized Controlled Trial," *Journal of Gerontology: Medical Sciences*, 63A: 321-327, 2008.
42. *Bozzette SA, Ake CF, Tam HK, Phippard A, Cohen D, Scharfstein DO, Louis TL: "Long term Survival and Serious Cardiovascular Events in HIV Patients Treated with Highly Active Antiretroviral Therapy," *Journal of AIDS*, 47: 338-341, 2008.
43. *Brotman RM, Ghanem KG, Klebanoff MA, Taha TE, **Scharfstein DO**, Zenilman JM: "The Effect of Vaginal Douching Cessation on Bacterial Vaginosis: A Pilot Study," *American Journal of Obstetrics and Gynecology*, 198: 628.e1-628.e7, 2008.
44. *Brotman RM, Klebanoff MA, Nansel T, Andrews WW, Zhang J, Schwebke JR, Kai FY, Zenilman JM, and **Scharfstein DO**: "A Longitudinal Study of Vaginal Douching and Disruption of Vaginal Flora - A Marginal Structural Modeling Analysis." *American Journal of Epidemiology*, 168: 188-196, 2008
45. *Shardell M, **Scharfstein DO**, Vlahov D, Galai N: "Inference for Cumulative Incidence Functions with Informatively Coarsened Discrete Event-Time Data." *Statistics in Medicine*. 27: 5861-5879, 2008.
46. *Shardell M, **Scharfstein DO**, Vlahov D, Galai N: "Sensitivity Analysis Using Elicited Expert Information for Inference with Coarsened Data: Illustration of Censored Discrete Event Times in ALIVE." *American Journal of Epidemiology*. 168: 1460-1469, 2008.
47. *Egleston BL, **Scharfstein DO**, Mackenzie EJ: "On Estimation of the Survivors Average Causal Effect in Observational Studies when Important Confounders are Missing Due to Death," *Biometrics*, 65: 497-504, 2009.
48. *Dodd-o J, Hristopoulos M, **Scharfstein DO**, Brower R, Hassoun P, Becker P, Liu M, Wang W, King L, Rabb H: "Interactive Effects of Mechanical Ventilation and Kidney Health on Lung Function in an In Vivo Mouse Model (with Editorial)" *American Journal of Physiology: Lung Cellular and Molecular Physiology*. 196: L3-L11, 2009.
49. *Joffe A, McNeely C, Colantuoni E, An M, Wang W, **Scharfstein DO**: "Evaluation of School-Based Multi- versus Single-Session Group Smoking Cessation Interventions for Adolescent Smokers." *Pediatrics*, 124:e187-94, 2009.
50. Wolff JL, Rand-Giovanetti E, Palmer, S, Wegener S, Reider, L, Frey K, **Scharfstein DO**, Boulton CB "Caregiving and Chronic Care: The Guided Care Program for Families and Friends." *Journal of Gerontology: Medical Sciences*, 64: 785-791, 2009.

Journal Articles (continued):

51. Leff B, Reider L, Frick K, **Scharfstein DO**, Boyd C, Frey K, Karm L, Boulton C: "The Early Effects of 'Guided Care' on Multi-Morbid Older Patient's Use and Cost of Health Services: A Randomized Controlled Trial." *American Journal of Managed Care*, 5:555-9, 2009.
52. *Wang W, **Scharfstein DO**, Tan Z, and MacKenzie EJ: "Causal Inference in Observational Studies with Outcome Dependent Sampling." *Journal of Royal Statistical Society, Series B*, 71, 947-969.
53. Wolff JL, Rand-Giovannetti E, Boyd CM, Reider L, Palmer S, **Scharfstein DO**, Marsteller J, Wegener S, Frey K, Leff B, Frick K, Boulton C: "Effects of Guided Care on Family Caregivers." *The Gerontologist*, 50: 459-470, 2010.
54. ***Scharfstein DO**, Achy-Brou A: "Global Sensitivity Analysis of Randomized Trials with Informative Drop-out: A Semi-parametric Perspective" *Drug Information Journal*. 43: 441-445, 2009.
55. Boyd CM, Reider L, Frey K, **Scharfstein DO**, Leff B, Wolff J, Groves C, Karm L, Wegener S, Marsteller J, Boulton C: "The Effects of Guided Care on Perceived Quality of Health Care for Multi-morbid Older Persons: 18 Month Outcomes from a Cluster Randomized Trial," *Journal of Gerontology: Medical Sciences*, 25: 235-242, 2010.
56. MacKenzie E, Weir S, Rivara F, Jurkovich G, Nathens A, Wang W, **Scharfstein DO**, Salkever D: "The Value of Trauma Center Care." *Journal of Trauma*, 69: 1-10, 2010.
57. Marsteller J, Hsu Y-J, Reider L, Frey K, Wolff J, Boyd C, Leff B, Karm L, **Scharfstein DO**, Boulton C: "Physician Satisfaction with Chronic Care Processes: A Cluster-Randomized Trial of Guided Care." *Annals of Family Medicine*, 8: 308-315, 2010.
58. Varadhan R, Weiss C, Segal J, Wu A, **Scharfstein DO**, Boyd C "Evaluating Health Outcomes in the Presence of Competing Risks: A Review of Statistical Methods and Clinical Applications." *Medical Care*. 28: S96-S105, 2010.
59. Wang CG, Daniels MJ, **Scharfstein DO** and Land S: "Bayesian Shrinkage Model for Incomplete Longitudinal Binary Data with Application to a Breast Cancer Prevention Trial." *Journal of American Statistical Association: Case Studies and Applications*. 105: 1333-1346, 2010.
60. Boulton C, Reider L, Leff B, Frick KD, Boyd CM, Wolff JL, Frey K, Karm L, Wegener ST, Mroz T, **Scharfstein DO**: "The Effect of Guided Care Teams on the Use of Health Services: Results from a Cluster-Randomized Controlled Trial," *Archives of Internal Medicine*. 171: 460-466, 2011.
61. *Reshef S, Fried L, Beauchamp N, **Scharfstein DO**, Reshef D, Goodman S: "Diastolic Blood Pressure Levels and Ischemic Stroke Incidence in Older Adults with White Matter Lesions." *Journal of Gerontology: Medical Sciences*. 66: 74-81, 2011.

Journal Articles (continued):

62. Skolasky R, Green A, **Scharfstein DO**, Boulton C, Reider L, Wegener S: "Psychometric Properties of the Patient Activation Measure Among Multi-Morbid Older Adults." *Health Services Research*, 46: 457-478, 2011.
63. *Wang W, **Scharfstein DO**, Wang CG, Daniels M, Needham D, Brower R: "Estimating the Causal Effect of Lower Tidal Volume Ventilation on Survival in Patients with Acute Lung." *Applied Statistics*, 60: 475-496, 2011.
64. ***Scharfstein DO**, Onicescu G, Goodman S, Whitaker R: "On the Analysis of Subgroup Effects in Randomized Trials When Subgroup Membership is Missing: Application to the MADIT II Study." *Applied Statistics*, 60: 607-617, 2011.
65. *Bobb JF, **Scharfstein DO**, Daniels MJ, Collins FS, Kelada S: "Multiple Imputation of Missing Phenotype Data for QTL Mapping." *Statistical Applications in Genetics and Molecular Biology*, 10: Article 29, 2011.
66. **Scharfstein, DO**, Hogan J, Herman A: "On the Prevention and Treatment of Missing Data in Randomized Clinical Trials: The State of the Art." *Journal of Joint and Bone Surgery*, 94 (Suppl 1(E)): 80-84, 2012.
67. Castillo R, **Scharfstein, DO**, MacKenzie E: "Observational Studies in the Era of Randomized Studies." *Journal of Bone and Joint Surgery*, 94 (Suppl 1(E)): 112-117, 2012.
68. Little R, D'Agostino R, Cohen M, Dickerson K, Emerson S, Farrar J, Frangakis C, Hogan J, Molenberghs G, Murphy S, Neaton J, Rotnitzky A, **Scharfstein DO**, Shih W, Siegel J, Stern H: "The Prevention and Treatment of Missing Data in Clinical Trials." *New England Journal of Medicine*, 367: 1355-1360, 2012.
69. Dattalo M, Rand-Giovanetti, **Scharfstein DO**, Boulton C, Wegener S, Wolff J, Leff B, Frick K, Noronha G, Reider L, Frey K, Boyd C: "Who Participates in Chronic Disease Self-Management (CDSM) Programs? Differences between Participants and Non-Participants in a Population of Multi-Morbid Older Adults." *Medical Care*, 50: 1071-1075, 2012.
70. Boulton C, Leff B, Boyd CM, Wolff JL, Marsteller JA, Frick KD, Wegener S, Reider L, Frey K, Mroz T, Karm L, **Scharfstein DO**: "A Matched-Pair Cluster-Randomized Trial of Guided Care for Multi-Morbid Older Patients." *Journal of General Internal Medicine*, 28: 612-621, 2013.
71. Marsteller JA, Hsu Y-J, Wen M, Wolff J, Frick K, Reider L, **Scharfstein DO**, Boyd C, Leff B, Schwartz L, Karm L, Boulton C: "Effects of Guided Care on Physician, Nurse and Practice Staff Satisfaction with Care: A Three-Year Cluster-Randomized Trial." *Population Health Management*, 16: 317-325, 2013.

Journal Articles (continued):

72. Paryavi E, Stall A, Gupta R, **Scharfstein DO**, Castillo RC, Zadnik M, Hui E, O'Toole RV: "A Predictive Model for Surgical Site Infection Risk after Surgery for High-Energy Lower Extremity Fractures: Development of the Risk of Infection in Orthopaedic Trauma Surgery (RIOTS) Score." *Journal of Trauma*, 74: 1521-1527, 2013.
73. Li T, Hutfless S, **Scharfstein DO**, Daniels M, Hogan J, Little R, Roy J, Dickerson K: "Standards in the Prevention and Handling of Missing Data for Patient Centered Outcome Research." *Journal of Clinical Epidemiology*, 67: 15-32, 2014.
74. Hauschild A, Chen S, Weichenthal M, Blum A, King H, Goldsmith J, Scharfstein DO, Gutkowitz-Krusin: "To Excise or Not: The impact of MelaFind on German Dermatologists' Decisions to Biopsy Lesions That May Be Melanoma," *Journal der Deutschen Dermatologischen Gesellschaft*, 12: 606-614, 2014.
75. *Wu Z, Frangakis CE, Louis TA, **Scharfstein DO**: "Estimation of Treatment Effects in Matched-Pair Cluster Randomized Trials by Calibrating Covariate Imbalance Between Clusters," *Biometrics*, 70: 1014-1022, 2014.
76. **Scharfstein DO**, McDermott A, Olson W, Wiegand F: "Global Sensitivity Analysis for Repeated Measures Studies with Informative Drop-out: A Fully Parametric Approach" *Statistics in Biopharmaceutical Research*, 6: 338-348, 2014.
77. ***Scharfstein DO**, Rotnitzky A, Abraham M, McDermott A, Chaisson R, Kim J, Geiter L: "On the Analysis of Tuberculosis Studies with Missing Data" *Annals of Applied Statistics*. 9, 2215-2236, 2015.
78. The Major Extremity Trauma Research Consortium (METRC) "Building a Clinical Research Network for Orthopaedic Trauma: The Major Extremity Trauma Research Consortium (METRC) " *Journal of Orthopaedic Trauma*. 30: 353-361, 2016.
79. Manson T, Reider L, O'Toole RV, **Scharfstein DO**, Tornetta P, Gary J and METRC: "Variation in Treatment of Displaced Geriatric Acetabular Fractures Among 15 Level I Trauma Centers" *Journal of Orthopaedic Trauma*. 30: 457-462, 2016.
80. Wang CG, **Scharfstein DO**, Colantuoni EA, Girard T, Yan Y: "Inference in Randomized Trials with Death and Missingness" *Biometrics*. 73: 431-440, 2017.
81. Stinner DJ, Wenke JC, Ficke JR, Gordon W, Toledano J, Carlini AR, **Scharfstein DO**, MacKenzie EJ, Bosse MJ, Hsu JR and METRC: "Military and Civilian Collaboration: The Power of Numbers" *Journal of Military Medicine*, 182 (S1): 10-17, 2017.
82. O'Toole RV, Gary JL, Hutson J, Quinnan S, Bosse MJ, Gordon W, Castillo R, **Scharfstein DO**, Reider L, MacKenzie EJ and METRC: "A Prospective Randomized Trial to Assess Fixation Strategies for Severe Open Tibia Fractures: Modern Ring External Fixators vs. Internal Fixation (FIXIT Study)" *Journal of Orthopaedic Trauma*, 31 (S1): S10-S17, 2017.

Journal Articles (continued):

83. Bosse MJ, Ertl W, Firoozabadi R, Morshed S, Toledano J, Carroll E, **Scharfstein DO**, Seymour SB, Steversen B, Reider L, MacKenzie EJ and METRC: "Transtibial Amputation Outcomes Study (TAOS): Comparing Transtibial Amputation with and without a Tibia-fibula Synostosis (Ertl) Procedure" *Journal of Orthopaedic Trauma*, 31 (S1): S63-S69, 2017.
84. Obrebsky WT, O'Toole RV, Morshed S, Tornetta P 3rd, Murray CK, Jones CB, **Scharfstein DO**, Castillo RC, Taylor TJ, Carlini AR, DeSanto J and METRC: "A Prospective Randomized Trial to Assess Oral (PO) versus Intravenous (IV) Antibiotics for the Treatment of Post-op Wound Infection after Extremity Fractures (POvIV)" *Journal of Orthopaedic Trauma*, 31 (S1): S32-S38, 2017.
85. Hsu JR, Owens JG, Stinner DJ, Potter BK, Kuhn K, Sheu RG, Ferguson J, Waggoner S, Huang Y, **Scharfstein DO**, DeSanto J, MacKenzie EJ and METRC: "Patient Response to an Integrated Orthotic and Rehabilitation Initiative for Traumatic Injuries: The PRIORITI-MTF Study" *Journal of Orthopaedic Trauma*, 31 (S1): S56-S62, 2017.
86. Bosse MJ, Gary J, Reider L, Teague D, Morshed S, Toledano J, Cannada L, Seymour R, Steversen B, **Scharfstein DO**, Luly J, MacKenzie EJ and METRC: "Outcomes Following Severe Distal Tibia, Ankle, and/or Foot Trauma: Comparison of Limb Salvage vs. Transtibial Amputation (OUTLET)" *Journal of Orthopaedic Trauma*, 31 (S1): S48-S55, 2017.
87. Wegener, S, O'Toole, R, Hymes, R, Archer, K, Jones, C, Seymour R, Castillo, R, Frey, K, Huang, Y, **Scharfstein, DO**, MacKenzie E, and METRC: "The Trauma Collaborative Care Study: Design and Baseline Characteristics of Study Participants" *Journal of Orthopaedic Trauma*, 31 (S1): S78-S87, 2017.
88. Schmidt AH, Frey KP, Bosse MJ, O'Toole RV, Stinner DJ, **Scharfstein DO**, Zipunnikov V, MacKenzie EJ and METRC: "Predicting Acute Compartment Syndrome (PACS): The Role of Continuous Monitoring" *Journal of Orthopaedic Trauma*, 31 (S1): S40-S47, 2017.
89. O'Toole RV, Joshi M, Carlini AR, Sikorski RA, Dagal A, Murray CK, Weaver MJ, Paryavi E, Stall AC, **Scharfstein DO**, Agel J, Zadnik M, Bosse MJ, Castillo RC and METRC "Supplemental Perioperative Oxygen to Reduce Surgical Site Infection After High-Energy Fracture Surgery (OXYGEN Study)" *Journal of Orthopaedic Trauma*, 31 (S1): S25-S31, 2017.
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PRACTICE ACTIVITIES

Software:

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