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**Robert J. Reynolds, MS MPH PhD PStat®**

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**Curriculum Vitae**

**May 2018**

Mortality Research & Consulting, Inc.  
4400 NE 77<sup>th</sup> Ave, Ste. 275  
Vancouver, WA 98662

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**EMPLOYMENT**

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2012-2017

Consulting Research Scientist & Director of Research, Mortality Research & Consulting, Incorporated, City of Industry, CA; Satellite office Vancouver, WA

2016-2017

Director, Healthcare Analytics & Business Intelligence: FamilyCare Health, Healthcare Analytics & Business Intelligence, Portland, OR

2015-2016

Clinical Analytics Manager: Cambia Health Solutions, Data Science & Advanced Analytics, Portland, OR

2012-2015

Medical Informaticist IV: Blue Shield of California, Medical Operations Analytics, San Francisco, CA

2011-2012

Data Manager: M D Anderson Cancer Center, Department of Lymphoma & Myeloma, Houston, TX

2010-2011

Data Management Analyst: University of Texas Health Science Center at Houston, Center for Clinical & Translational Sciences, Houston, TX

2008-2010

Data Analyst: M D Anderson Cancer Center, Department of Symptom Research, Houston, TX

2005-2006

Consultant Data Analyst: Kaiser Permanente Division of Research, Oakland, CA

2003-2005

Senior Research Analyst: Strauss & Shavelle, Incorporated (dba The Life Expectancy Project), San Francisco, CA

2001-2003

Programmer/Analyst I: University of California, San Francisco, Treatment Outcome Research Group, San Francisco, CA

1999-2000

Research Specialist: Arizona Cancer Center, Selenium & Cancer Projects, Tucson, AZ

1998-1999

Research Technician: Arizona Cancer Center, Behavioral Sciences, Tucson, AZ

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## **EDUCATION**

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PhD, Epidemiology, August 2013

Minors: Biostatistics, Environmental & Occupational Health Sciences  
University of Texas Health Science Center at Houston

MS, Statistics, August 2017

Texas A&M University

MPH, Epidemiology, December 2001

University of Arizona

BS, Psychology, December 1998

University of Arizona

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## **CONTINUING EDUCATION**

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Executive Data Science Specialization – Johns Hopkins University (via Coursera)

Data Science Specialization – Johns Hopkins University (via Coursera)

Microsoft Professional Program in Data Science – Microsoft Academy (via edX)

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## **EDITORIAL ACTIVITIES**

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Peer reviewer of manuscripts for the following journals and conferences:

1. Aerospace Medicine & Human Performance
2. Nature - Scientific Reports
3. Developmental Medicine & Child Neurology
4. Preventing Chronic Disease
5. Society for Epidemiological Research Annual Meeting (abstract reviewer)
6. Epidemiology Congress of the Americas (abstract reviewer)

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**PEER REVIEWED PUBLICATIONS - MEDICAL AND MORTALITY RESEARCH**

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1. Reynolds RJ, Day SM. The effect of competing risks on astronaut and cosmonaut mortality. *Life Sci Space Res.* (In press)
2. Reynolds RJ, Day SM. The growing role of machine learning and artificial intelligence in developmental medicine. *Dev Med Child Neurol.* (In press)
3. Reynolds RJ, Day SM, Becker E, Shafer A. Mortality rates and excess death rates for the seriously mentally ill. *J Insur Med.* (In press)
4. Reynolds RJ, Hakenewerth A, Shafer AB, Day SM, Becker EA. Cancer incidence among the mentally ill treated at the Local Mental Health Authority clinics in Texas. *TPHA Journal.* (In press)
5. Day SM, Reynolds RJ. Diagnosis in the age of massive computing power. *Dev Med Child Neurol.* 2017 Dec;59(12):1211-1212.
6. Reynolds RJ, Shafer A, Day SM, Becker E. Cancer incidence among Texas publicly funded substance abuse treatment clients. *Tex Med.* 2017;113(12):e1.
7. Reynolds RJ, Day SM. Mortality Due to Cardiovascular Disease Among Apollo Lunar Astronauts. *Aerosp Med Hum Perform.* 2017 May 1;88(5):492-496. (Erratum: *Aersopace Medicine & Human Performance* 2017; 88(11):1055.)
8. Day SM, Reynolds RJ, Kush SJ. Extrapolating published survival curves to obtain evidence-based estimates of life expectancy in cerebral palsy. *Dev Med Child Neurol.* 2015 Dec;57(12):1105-1118.
9. Day SM, Reynolds RJ, Kush SJ. The relationship of life expectancy to the development and valuation of life care plans. *NeuroRehabilitation.* 2015;36(3):253-266.
10. Reynolds RJ, Kush SJ, Day SM, Vachon P. Comparative mortality and risk factors for death among Justices of the Supreme Court of the United States, 1789-2013: experience from an occupational cohort with over two centuries of follow-up. *J Insur Med.* 2015;45:9-16.
11. Reynolds RJ, Day SM, Nurgalieva ZZ. Mortality of Soviet and Russian cosmonauts, 1960-2013. *Aviat Space Environ Med.* 2014 Jul;85(7):750-754.
12. Reynolds RJ, Delclos GL, Cooper SP, Rahbar MH. Radiation dosimetry in space: A systematic review. *WebmedCentral Environmental Medicine;* 2014;5(2):WMC004578.
13. Day SM, Reynolds RJ, Kush SJ. Letter to the editor regarding "Life expectancy projections supporting life care planning" by RP Bonfiglio and D Kasas in volume 12, number 1. *J Life Care Plan.* 2013;12(2):5-7.
14. Reynolds RJ, Becker EA, Shafer AB. Causes of death and comparative mortality in Texas Public Mental Health Clients, 2006-2008. *Ment Health Clin.* 2013;3(1):52.
15. Kush SJ, Day SM, Reynolds RJ. Life expectancy for life care planners. *J Life Care Plan.* 2013;12(1):31-49.
16. Day SM, Reynolds RJ. Risk factors for cerebral palsy: current knowledge and future causal inference. *Dev Med Child Neurol.* 2013 Jun;55(6):490.

17. Reynolds RJ, Day SM. The mortality of Major League Baseball players from Canada, Latin America, and the Caribbean. *GJMEDPH* 2012 Jul-Aug;1(4):38-41.
18. Reynolds R, Day S. Life expectancy and comparative mortality of Major League Baseball players, 1900-1999. *WebmedCentral Sports Medicine*. 2012;3(5):WMC003380.
19. Reynolds RJ, Becker EA, Shafer AB. Mortality of public mental health clients treated at the Local Mental Health Authorities of Texas. *TPHA Journal*. 2012;64(2): 35-40. (Invited paper)
20. Rahbar MH, Fox EE, del Junco D, Cotton BA, Podbielski J, Matijevic N, Cohen MJ, Schreiber MA, Zhang J, Mirhaji M, Duran S, Reynolds R, Benjamin-Garner R, Holcomb JB. Coordination and management of multicenter clinical studies in trauma: Experience from the Prospective Observational Multicenter Massive Transfusion sTudy (PROMMTT). *Resuscitation*. 2012 Apr;83(4):459-64
21. Reynolds RJ, Day SM. Mortality among US Astronauts: 1980-2009. *Aviat Space Envir Med*. 2010 81: 1024-1027.
22. Oakeshott P, Hunt GM, Kerry S, Strauss DJ, Shavelle RM, Reynolds RJ. Survival and mobility in open spina bifida: Comparison of results from the United States and the United Kingdom. *Int J Disabil Hum Dev*. 2008, 7:101-106.
23. Day SM, Wu YW, Strauss DJ, Shavelle RM, Reynolds RJ. Change in ambulatory ability of adolescents and young adults with cerebral palsy. *Dev Med Child Neurol*. 2007 49:647-653.
24. Strauss DJ, Shavelle RM, Reynolds R, Rosenbloom L, Day SM. Survival in cerebral palsy in the last 20 years: Signs of improvement? *Dev Med Child Neurol*. 2007 49:86-92.
25. Day SM, Wu Y, Strauss DJ, Shavelle RM, Reynolds RJ. Causes of death in remote symptomatic epilepsy. *Neurology*, 2005 Jul 26, 65(2):216-22.
26. Day SM, Strauss DJ, Shavelle RM, Reynolds RJ. Mortality and causes of death in persons with Down syndrome in California. *Dev Med Child Neurol*. 2005 47: 171-6.

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#### **PEER REVIEWED PUBLICATIONS - BASEBALL**

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1. Reynolds R, Day SM. Offensive strategy and efficiency in the United States and Dominican Republic. *Baseball Res J*. 2009;38(1):39-43.
2. Reynolds R, Day S, Paculdo D. (2006) Deconstructing the Midas Touch: Gold Glove Award Voting 1965-2004. *Baseball Res J*. 2005;34:101-9.

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#### **BOOK CHAPTERS**

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1. Reynolds RJ, Day SM. The Mortality of Space Explorers. In: Russomano T, Rehnberg L, editors. *Into Space*. InTech; (In press).

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## POSTERS AND INVITED PRESENTATIONS

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1. Reynolds RJ, Day SM. Comparing machine-learned and diagnosis-driven groupings of children in the 2011 National Survey of Children's Health. Poster to be presented at the 72<sup>nd</sup> Annual Meeting of the American Academy for Cerebral Palsy and Developmental Medicine, October 11, 2018: Cincinnati, Ohio.
2. Reynolds RJ, Day SM. Competing Risks Survival Bias Among U.S. Astronauts. Poster to be presented at the 51<sup>st</sup> Society for Epidemiologic Research, June 20, 2018: Baltimore, MD.
3. Day SM, Reynolds RJ. Mortality related to cerebral palsy in the United States: Analysis of multiple causes of death and comparison with deaths in the general population from 2005 to 2014. Poster to be presented at the 31<sup>st</sup> annual meeting of the Society for Pediatric and Perinatal Epidemiologic Research (SPER), June 18, 2018: Baltimore, MD.
4. Crader S, Gongaware Z, McDonald R, Miller M, **Reynolds RJ**. (2017) A method for the creation of inpatient event files from medical claims data. Poster presented at the Healthcare Data and Analytics Association (HDAA) annual meeting, November 7-9, 2017: Cleveland, Ohio.
5. Reynolds R, Kush S, Day S. Using machine learning to identify diagnostic profiles for children with cerebral palsy and other developmental disabilities in the 2011–2012 National Survey of Children's Health. Free paper presented at the 71<sup>st</sup> Annual Meeting of the American Academy for Cerebral Palsy and Developmental Medicine, September 13–16, 2017: Montreal, Quebec, Canada.
6. Reynolds RJ, Day SM, Shafer A, Becker E. Cancer incidence among substance users in the public substance abuse treatment programs of the state of Texas. Poster presented at the 50th Annual Meeting of the Society for Epidemiologic Research, June 20-23, 2017: Seattle, Washington.
7. Day SM, Reynolds RJ, Kush SJ. What can a telephone survey tell us about the health and well-being of children with cerebral palsy and other developmental disabilities? Findings of the US 2011–2012 National Survey of Children's Health. Free paper presented at the Seventieth annual meeting of the American Academy for Cerebral Palsy and Developmental Medicine, September 23, 2016: Hollywood, Florida.
8. Reynolds R, Day S, Hakenewerth A, Becker E, Shafer A. A simulation method for estimating incidence rates when information on censoring due to death is missing. Poster presented at the 2016 Epidemiology Congress of the Americas, June 21-24, 2016: Miami, Florida.
9. Reynolds RJ. Predictive modeling in healthcare analytics: Beyond modeling and mining. Presentation at the Predictive Modeling for Health Plans conference, August 18-19, 2015: San Francisco, California.
10. Reynolds RJ, Day SM. The mortality of NBA basketball players 1949-2011: Are there racial disparities? Poster presented at the 48th Annual Meeting of the Society for Epidemiological Research, June 16-19, 2015: Denver, Colorado.

11. Reynolds RJ, Day SM. Longevity of Fashion Models, 1921-2012. Poster presented at the 48th Annual Meeting of the Society for Epidemiological Research, June 16-19, 2015: Denver, Colorado.
12. Thygeson NM, Reynolds RJ, Bedington T. Using Social Network Analysis to Analyze and Enhance Provider Networks. Presentation at the BlueCross BlueShield National Association 2015 Summit: Phoenix, Arizona.
13. Reynolds RJ, Day SM, Kush SJ. Life expectancy in cerebral palsy: methods for clinicians. Instructional Course presented at the Sixty-Eighth annual meeting of the American Academy for Cerebral Palsy and Developmental Medicine, September 13, 2014: San Diego, California.
14. Reynolds RJ, Rahbar MH, Delclos GL, Cooper SP. Construction of a location-exposure matrix for ionizing radiation in low earth orbit. Poster presented at the 47th Annual Meeting of the Society for Epidemiologic Research, June 24, 2014: Seattle, Washington.
15. Reynolds RJ, Delclos GL, Rahbar MH, Cooper SP. Ionizing radiation from extraterrestrial environments and the risk of death from cancer and all natural causes among US astronauts, 1959-2011. Poster presented at the 47th Annual Meeting of the Society for Epidemiologic Research, June 24, 2014: Seattle, Washington.
16. Reynolds RJ, Day SM. Mortality and causes of death for Russian and Soviet Cosmonauts, 1960-2013. Poster presented at the 47th Annual Meeting of the Society for Epidemiologic Research, June 24, 2014: Seattle, Washington.
17. Day SM, Kush SJ, Reynolds RJ. Evidence-based calculations of life expectancy of children and adults with cerebral palsy and other developmental disabilities. Breakfast Seminar presented at the Sixty-Seventh Annual Meeting of the American Academy for Cerebral Palsy and Developmental Medicine, October 19, 2013: Milwaukee, Wisconsin.
18. Day SM, Reynolds RJ. Variations in and uses of life expectancies reported by United States Government agencies. Poster at the 45th Society for Epidemiologic Research Annual Meeting, June 29, 2012: Minneapolis, Minnesota.
19. Reynolds RJ. Mortality among the seriously mentally ill in Texas, 2006-2008. Presentation at the 88th Annual Education Conference of the Texas Public Health Association, March 22, 2012: Arlington, Texas.
20. Valenzuela JO, Irrarrazaval ME, Fasce G, Marin L, Palos G, Mendoza, TR, Gning I, Reynolds R, Wang XS and Cleeland CS (2011). Psychometric validation of the Spanish version of the MD Anderson Symptom Inventory (MDASI-Sp): Multiple symptom assessment in cancer patients. Poster at the Cancer Prevention & Research Institute of Texas (CPRIT) Second Innovations in Cancer Prevention and Research conference, November 15-17, 2011: Austin, Texas.
21. Reynolds RJ, Davis RE, Fayad LE, Hess MA, Neelapu SA, Kwak LW. Development of a comprehensive research database for Hodgkin's and Non-Hodgkin's Lymphomas at The MD Anderson Cancer Center. Poster at the 2nd Annual Memorial Hermann Advances in Oncology – From Clinical Science to Clinical Practice conference, November 11, 2011: Houston, Texas.

22. Reynolds RJ, Day SM. Comparative Mortality of Major League Baseball Players by National Origin. Poster at 3rd North American Congress of Epidemiology, June 23, 2011: Montreal, Quebec, Canada.
23. Wang XS, Fogelman D, Eng C, Glover K, Malekifar M, Reynolds R, Shah N, Mendoza T, Dougherty PM, Cleeland CS. Prospective study of paraesthetic neurotoxicity from Oxaliplatin-based regimens in the treatment of colorectal cancer. Poster at the MD Anderson Division of Internal Medicine Annual Research Retreat, May 2010: Houston, Texas.
24. Voloudakis M, Reynolds R. Getting a foot-in-the-door and keeping it there: The sequential request strategy as a method to increase health survey participation over time. Poster during the 131st Annual Meeting of American Public Health Association, November 15-19, 2003: San Francisco, California.
25. Havassey B, Alvidrez J, Owen K, Reynolds R, Nebel M. Preliminary evaluation findings for San Francisco County MIOCR-I. Presentation at the California Board of Corrections Mentally Ill Offenders Crime Reduction Project annual meeting, March 2002: Sacramento, California.
26. Reynolds R. Diabetes on the US-Mexico border: Yuma school surveys. Presentation at the 4th Arizona College of Public Health Internship Conference, University of Arizona College of Public Health (Master's internship presentation), 2001: Tucson, Arizona.
27. Reynolds R, Heddens DK. Multiple needles in multiple haystacks: Sampling strategies and statistical hypothesis testing for negative predictive value in cancer clinical trials. Invited presentation at the Cancer Prevention and Control Seminar Series, Arizona Cancer Center, University of Arizona, 2001: Tucson, Arizona.
28. Reynolds R, Heddens DK. Multiply or divide: Stratification vs. interaction terms in logistic regression models. Poster and presentation at the Epidemiology in Arizona Forum, University of Arizona (competitively selected), 2001: Tucson, Arizona.
29. Reynolds R, Voloudakis M, Willey J. Perception and behavior in response to pro-tobacco advertising on a college campus. Poster at the Society for Research on Nicotine and Tobacco (SRNT) Annual Conference, February 2000: Washington, DC.
30. Lee H, Ranger-Moore J, Reynolds R, Leischow S. A needs assessment on evaluation for Arizona's Tobacco Education and Prevention Program. Poster presentation at the Society for Research on Nicotine and Tobacco Annual Conference, February 1999: San Diego, California.

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## **ABSTRACTS**

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1. Reynolds R, Kush S, Day S. Using machine learning to identify diagnostic profiles for children with cerebral palsy and other developmental disabilities in the 2011–2012 National Survey of Children's Health. *Dev Med Child Neurol.* 2017;59(Suppl. 3):36-7.

2. Reynolds RJ, Day SM, Shafer A, Becker E. Cancer incidence among substance users in the public substance abuse treatment programs of the state of Texas. Abstract Book of the Society for Epidemiologic Research 50th Annual Meeting, June 20-23, 2017: Seattle, Washington.
3. Day S, Reynolds R, Kush S. What can a telephone survey tell us about the health and well-being of children with cerebral palsy and other developmental disabilities? Findings of the US 2011–2012 National Survey of Children's Health. *Dev Med Child Neurol*. 2016;52(Suppl. 5):50-1.
4. Reynolds R, Day S, Hakenewerth A, Becker E, Shafer A. A bootstrap method for estimating incidence rates in longitudinal studies when information on censoring due to death is missing for large numbers of participants. Poster presented at the 2016 Epidemiology Congress of the Americas, June 21-24, 2016: Miami, Florida.
5. Reynolds RJ, Day SM. Reynolds RJ, Day SM. The mortality of NBA basketball players 1949-2011: Are there racial disparities? Abstracts - 48th Annual Meeting of the Society for Epidemiological Research, June 16-19, 2015.
6. Reynolds RJ, Day SM. Longevity of Fashion Models, 1921-2012. Abstracts - 48th Annual Meeting of the Society for Epidemiological Research, June 16-19, 2015.
7. Reynolds RJ, Rahbar MH, Delclos GL, Cooper SP. Construction of a location-exposure matrix for ionizing radiation in low earth orbit. Abstracts - 47th Annual SER Meeting. Seattle, WA, June 24-27, 2014.
8. Reynolds RJ, Delclos GL, Rahbar MH, Cooper SP. Ionizing radiation from extraterrestrial environments and the risk of death from cancer and all natural causes among US Astronauts, 1959-2011. Abstracts - 47th Annual SER Meeting. Seattle, WA, June 24-27, 2014.
9. Reynolds RJ, Day SM, Nurgalieva ZZ. Mortality of Soviet and Russian cosmonauts, 1960-2013. Abstracts - 47th Annual SER Meeting. Seattle, WA, June 24-27, 2014.
10. Day SM, Reynolds RJ. Variations in and uses of life expectancies reported by United States government agencies. Abstracts - 45th Annual SER Meeting. Minneapolis, MN, June 27-30, 2012.
11. Reynolds RJ, Day SM. Comparative mortality of Major League Baseball players by national origin. 3rd North American Congress of Epidemiology, June 21-24, 2011, Montreal, Quebec, Canada.
12. Wang XS, Fogelman DR, Eng C, Malekifar M, Reynolds RJ, Shah NA, Mendoza TR, Glover KY, Dougherty PM, Cleeland CS. Prospective study of paresthetic neurotoxicity from oxaliplatin-based regimens in the treatment of colorectal cancer. Abstract at 2010 ASCO Annual Conference.
13. Williams LA, Ault P, Cleeland CS, Reynolds RJ, Shah NA, Shah PK, Cortes JE. Symptom burden in chronic myeloid leukemia (CML). Abstract at 2010 ASCO Annual Conference.



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## **TECHNICAL REPORTS**

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1. Lee H, Reynolds R, Roberts L, Wentzel T. Workplace smoking policy survey Report 1998. Report prepared for the Arizona Department of Health Services, Arizona Tobacco Information Network, 1998.
2. Ranger-Moore J, Lee H, Leischow S, Reynolds R. Needs assessment for TEPP evaluation: Final report. Report prepared for the Arizona Department of Health Services, Arizona Tobacco Information Network, 1998.