##### JEFFREY S. STONEBRAKER

North Carolina State University

Poole College of Management

Department of Business Management

Raleigh, NC 27695-7229

Email: jeff\_stonebraker@ncsu.edu

919.710.2970 (cell)

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## EDUCATION

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| Ph.D. | Management Science, Arizona State University (December 1993) |
|  | Dissertation: “Applying decision analysis to sequential decisions under uncertainty with continuous decision variables” |
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| M.S. | Engineering-Economic Systems, Stanford University (August 1988) |
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| B.S.E.E. cum laude | Electrical Engineering**,** University of South Florida (May 1983) |

**PROFESSIONAL EXPERIENCE**

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| 2015-present | Associate Professor, North Carolina State University, Poole College of Management, Department of Business Management, Raleigh, NC |
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| 2009-2015 | Assistant Professor, North Carolina State University, Poole College of Management, Department of Business Management, Raleigh, NC |
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| 2007-2009 | Assistant Professor, University of Denver, Daniels College of Business |
|  | Department of Statistics & Operations Technology, Denver, CO |
|  |  |
| 2004-2007 | Manager of Decision Sciences, GlaxoSmithKline, Research Triangle Park, NC |
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| 1999-2004 | Manager of Strategic Planning, Bayer Biological Products, Research Triangle Park, NC |
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| 1998 | Manager of Strategic Planning, Bayer Biotechnology, Berkeley, CA |
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| 1997 | Senior Associate Consultant, Applied Decision Analysis, Inc., Menlo Park, CA |
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| 1982-1997 | United States Air Force Officer (Rank: Major) |
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**PUBLICATIONS**

**Referred Journal Publications**

Stonebraker JS, Bolton-Maggs PHB, Brooker M, Evatt B, Iorio A, Makris M, O Mahony B, Skinner MW, Pierce G, Coffin D, Tootoonchian E. The World Federation of Hemophilia Annual Global Survey 1999-2018. *Haemophilia* in press.

Iorio A, Stonebraker JS, Chambost H, Makris M, Coffin D, Herr C, Germini F on behalf of the Data and Demographics Committee of the World Federation of Hemophilia. Establishing the male prevalence and prevalence at birth of hemophilia: a meta-analytical approach using established national clinical registries. *Annals of Internal Medicine* 2019; 171(8): 540-546.

Chai‐Adisaksopha C, Skinner MW, Curtis R, Frick N, Nichol MB, Noone D, O’Mahony B, Page D, Stonebraker JS, Thabane L, Crowther MA, Iorio A. Exploring regional variations in the cross‐cultural, international implementation of the Patient Reported Outcomes, Burdens and Experiences (PROBE) study. *Haemophilia* 2019; 25: 365-372.

Chai-Adisaksopha C, Skinner MW, Curtis R, Frick N, Nichol M, Noone D, O’Mahony B, Page D, Stonebraker JS, Thabane L, Crowther M, Iorio A. Test‐retest properties of the Patient Reported Outcomes, Burdens and Experiences (PROBE) questionnaire and its constituent domains. *Haemophilia* 2019; 25(1): 75-83.

Stonebraker JS, Hajjar J, Orange JS. Latent therapeutic demand model for the immunoglobulin replacement therapy of primary immune deficiency disorders in the USA. *Vox Sanguinis* 2018; 113(5): 430-440.

Skinner MW, Chai-Adisaksopha C, Curtis R, Frick N, Nichol M, Noone D, O’Mahony B, Page D, Stonebraker JS, Iorio A. The Patient Reported Outcomes, Burdens and Experiences (PROBE) Project: development and evaluation of a questionnaire assessing patient reported outcomes in people with haemophilia. *Pilot and Feasibility Studies* 2018; 4:58.

Chai-Adisaksopha C, Skinner MW, Curtis R, Frick N, Nichol M, Noone D, O’Mahony B, Page D, Stonebraker JS, Thabane L, Crowther M, Iorio A. Psychometric properties of the Patient Reported Outcomes, Burdens and Experiences (PROBE) questionnaire. *BMJ Open* 2018; 8:e021900.

Iorio A, Stonebraker JS, Brooker M, Soucie JM on behalf of the Data and Demographics Committee of the World Federation of Hemophilia. Measuring the quality of haemophilia care across different settings: a set of performance indicators derived from demographics data. *Haemophilia* 2017; 23(1): e1-e7.

Stonebraker JS, Farrugia A, Gathmann B & ESID Registry Working Party, Orange JS. Modeling Primary Immunodeficiency Disease Epidemiology and Its Treatment to Estimate Latent Therapeutic Demand for Immunoglobulin. *Journal of Clinical Immunology* 2014; 34(2): 233-244.

**Referred Journal Publications (continued)**

Stonebraker JS. Product-Generation Transition Decision Making for Bayer’s Hemophilia Drugs: Global Capacity Expansion under Uncertainty with Supply-Demand Imbalances. *Operations Research* 2013; 61(5): 1119-1133. (Finalist for the 2015 INFORMS Decision Analysis Society Publication Award.)

Stonebraker JS, Gill E, Kirkwood CW, Handfield RB. Impact factor as a metric to assess journals where OM research is published. *Journal of Operations Management* 2012; 30(1): 24-43.

Stonebraker JS, Bolton-Maggs PHB, Soucie JM, Walker I, Brooker M. A study of variations in the reported haemophilia B prevalence around the world. *Haemophilia* 2012; 18(3): e91-e94.

Handfield RB, Edwards SE, Stonebraker JS. NC State’s Supply Chain Resource Cooperative educates in the real-world. *Interfaces* 2011; 41(6): 548-563.

Stonebraker JS, Bolton-Maggs PHB, Brooker M, Farrugia A, Srivastava A. A study of reported factor IX use around the world. *Haemophilia* 2011; 17(3): 446-455.

Stonebraker JS, Brooker M, Amand RE, Farrugia A, Srivastava A. A study of reported factor VIII use around the world. *Haemophilia* 2010; 16(1): 33-46.

Stonebraker JS, Bolton-Maggs PHB, Soucie JM, Walker I, Brooker M. A study of variations in the reported haemophilia A prevalence around the world. *Haemophilia* 2010; 16(1): 20-32.

Stonebraker JS, Keefer DL. Modeling potential demand for supply-constrained drugs: A new hemophilia drug at Bayer Biological Products. *Operations* *Research* 2009; 57(1): 19-31.

Stonebraker JS, Amand RE, Bauman MV, Nagle AJ, Larson PJ. Modelling haemophilia epidemiology and treatment modalities to estimate unconstrained factor VIII demand. *Haemophilia* 2004; 10(1): 18-26.

Stonebraker JS, Amand RE, Nagle AJ. A country-by-country comparison of FVIII concentrate consumption and economic capacity for the global haemophilia community. *Haemophilia* 2003; 9(3): 245-250.

Stonebraker JS. How Bayer makes decisions to develop new drugs. *Interfaces* 2002; 32(6): 77-90.

Dunning DJ, Lockfort S, Ross QE, Beccue PC, Stonebraker JS. New York Power Authority uses decision analysis to schedule refueling of its Indian Point 3 Nuclear Power Plant. *Interfaces* 2001; 31(5): 121-135.

Stonebraker JS, Kirkwood CW. Formulating and solving sequential decision analysis models with continuous variables. *IEEE Transactions on Engineering Management* 1997; 44(1): 43-53.

**Other Publications**

Chai-Adisaksopha C, Noone D, Curtis R, Frick N, Nichol M, O’Mahony B, Page D, Stonebraker JS, Iorio A, Skinner MW. Exploring Regional Variations in the Cross-cultural, International Implementation of the Patient Reported Outcomes Burdens and Experience (PROBE) Study. *Research and Practice in Thrombosis Haemostasis* 2018; 2(S1): 92-93.

Noone D, Chai-Adisaksopha C, Curtis R, Frick N, Nichol M, O’Mahony B, Page D, Stonebraker JS, Iorio A, Skinner MW. The Effect of Inhibitors on Quality of Life and Pain in Adult Patients with Severe Haemophilia in the PROBE Cohort. *Research and Practice in Thrombosis Haemostasis* 2018; 2(S1): 76-77.

Dougall A, Chandra Pani S, Daly B, Chai-Adisaksopha C, Curtis R, Frick N, Iorio A, Noone D, Stonebraker J, Skinner MW. The PROBE Study –Global burden of bleeding from the mouth in Haemophilia – a call to action. *Haemophilia* 2018; 24(S5): 66.

Pastarnak A, Curtis R, Frick N, Nichol M, Noone D, O’Mahony B, Page D, Stonebraker JS, Iorio A, Skinner MW. The PROBE Data Dashboard – A new tool for real-time data visualization and analysis of patient reported outcomes. *Haemophili*a 2018; 24(S5): 182.

Noone D, Chai-Adisaksopha C, Curtis R, Frick N, Nichol M, O'Mahony B, Page D, Stonebraker JS, Iorio A, Skinner MW. Occurrence and impact of pain among patients living with hemophilia: An analysis from the patient reported outcomes, burdens and experiences (PROBE) study. *Haemophilia* 2018, 24(S1): 26-27.

Skinner MW, Chai-Adisaksopha C, Curtis R, Frick N, Noone D, O'Mahony B, Page D, Stonebraker JS, Iorio A. Burden of Comorbid Diseases in Patients with Hemophilia: The Cross-Sectional Analysis of the Patient Reported Outcomes, Burden and Experiences (PROBE) Study. *Blood* 2017; 130(S1): 3411.

Chai-Adisaksopha C, Skinner MW, Curtis R, Frick N, Noone D, O'Mahony B, Page D, Stonebraker JS, Iorio A. Psychometric Properties of the Patient Reported Outcomes Burdens and Experiences (PROBE) Questionnaire. *Blood* 2017; 130(S1): 5645.

Chai-Adisaksopha C, Skinner MW, Curtis R, Frick N,Nichol MB, Noone D, O'Mahony B, Page D, Stonebraker JS, Iorio A. Sexual Health in Patients with Hemophilia; The Insights from the Patient Reported Outcomes, Burdens and Experiences (PROBE) Study. *Blood* 2017; 130(S1): 2141.

Skinner, MW, Chai-Adisaksopha C, Curtis R, Frick N,Nichol MB, Noone D, O'Mahony B, Page D, Stonebraker JS, Iorio A. Burden of comorbidities in persons living with haemophilia: insight from the PROBE phase 2b study database. *Research and Practice in Thrombosis Haemostasis* 2017, 1(S1): 840-841.

Thompson C, Srivastava A, Skinner M, Stonebraker J, Epstein J, Kauf T, Valentino L. The Global Annual Bleed Rate in Haemophilia: a 2015 Estimate. *Research and Practice in Thrombosis Haemostasis* 2017, 1(S1): 759-760.

**Other Publications (continued)**

Skinner, MW, Chai-Adisaksopha C, Curtis R, Frick N,Nichol MB, Noone D, O'Mahony B, Page D, Stonebraker JS, Iorio A. Test-Retest Reliability Analysis Of The Patient Reported Outcomes Burdens and Experiences (PROBE) Study Questionnaire Test-Retest Reliability Analysis Of The PROBE Study Questionnaire. *International Journal of Technology Assessment in Health Care* 2017; 33(S1): 174-175.

Chai-Adisaksopha C, Iorio A, Curtis R, Frick N, Nichol MB, Noone D, O'Mahony B, Page D, Stonebraker JS, Skinner MW. Test-Retest Reliability Analysis of The Patient Reported Outcomes Burdens and Experiences (PROBE) Study. *Haemophilia* 2017; 23(S2): 50-51.

Skinner MW, Curtis R, Frick N, A. Iorio, M. Nichol, D. Noone, B. O’Mahony, D. Page, J. Stonebraker. The Patient Reported Outcomes Burdens and Experiences (PROBE) Study Phase 1 Methodology and Feasibility Results. *Haemophilia* 2016; 22(S4): 118-119.

Brooker M, Stonebraker J, Iorio A. Measuring the quality of hemophilia care across different settings: a set of performance indices derived from demographics data. *Haemophilia* 2016; 22(S4): 26.

Skinner MW, Curtis R, Frick N, Iorio A, Nichol M, Noone D, O’Mahony B, Page D, Stonebraker JS. The Patient Reported Outcomes, Burdens, and Experiences (PROBE) Phase 1 Study Methodology and Feasibility. *Haemophilia* 2016; 22 (S2): 43-44.

Chai-Adisaksopha C, Iorio A. Curtis R, Frick N, Nichol M, Noone D, O'Mahony B, Page D, Stonebraker JS, Skinner MW. Psychometric Test-Retest Reliability Analysis of the Patient Reported Outcomes Burdens and Experiences (PROBE). *Blood* 2016; 128(22): 5964.

Skinner MW, Curtis R, Frick N, Iorio A, Nichol M, Noone D, O’Mahony B, Page D, Stonebraker JS. The patient reported outcome burdens and experiences (PROBE) study - phase 1 results show PROBE study methodology feasible. *Journal of Thrombosis and Haemostasis* 2016; 14 (S1): 47.

Skinner MW, Curtis R, Frick N, Iorio A, Nichol M, Noone D, O’Mahony B, Page D, Stonebraker JS. The Patient Reported Outcomes, Burdens, and Experiences (PROBE) Phase 1. *HTAi 2016 Annual Meeting Abstract Book* 2016: 63-64.

Iorio A, Stonebraker JS, Brooker M, Soucie JM. How to measure progress in the provision of care for hemophilia. *The Proceedings of the World Federation of Hemophilia’s Ninth Global Forum on Research and Treatment Products for Bleeding Disorders* 2015: 16-17.

Stonebraker JS, Farrugia A, Gathmann B. A decision analysis model to estimate latent therapeutic demand for immunoglobulin therapy in primary immunodeficiencies. *Proceedings of the 15th Meeting of the European Society of Immunodeficiencies* 2013: 29-34.

Farrugia A, Stonebraker JS, Gathmann B. A decision analysis model for estimating latent therapeutic demand for immunoglobulin therapy in primary immune deficiencies. *Journal of Clinical Immunology* 2012; 32(S1): S18.

**Other Publications (continued)**

Bailey MJ, Snapp J, Yetur S, Stonebraker JS, Edwards SA, Davis A, Cox R. Practice Summaries: American Airlines uses should-cost modeling to assess the uncertainty of bids for its full-truckload shipment routes. *Interfaces* 2011; 41(2): 194-196.

Stonebraker JS. Factor Usage – Global Data. *The Proceedings of the World Federation of Hemophilia’s Sixth Global Forum on the Safety and Supply of Hemophilia Treatment Products for Bleeding Disorders – Making the Case for Clotting Factor Concentrates* 2009: 9-11.

Stonebraker JS. Understanding the supply-demand-price conundrum in the FVIII market. *The Proceedings of the World Federation of Hemophilia’s Fifth Global Forum on the Safety and Supply of Hemophilia Treatment Products* 2007: 20-21.

Larson PJ, Stonebraker JS, Amand RE, Bauman MV, Nagle AJ. Probabilistic Modelling of population-based epidemiology and treatment modalities to determine unconstrained factor VIII demand. *Journal of Thrombosis and Haemostasis* 2003; 1(S1): P1645.

Stonebraker JS, Sage JJ, Leak BL. Practice Abstract: Decision analysis provides insight to Ford Microelectronics Incorporated. *Interfaces* 1997; 27(2): 107-111, 1997.

Stonebraker JS. It’s time to think about values first. *Quality Air Force Symposium Proceedings* 1996: 78-88.

Francis VE, Stonebraker JS, Antons CM. Simon says: Rational decision-making for source selection. *Program Manager* 1991; Sep-Oct: 34-40.

Francis VE, Stonebraker JS. Can source selection benefit from decision analysis? *Acquisition Research Symposium* *Proceedings* 1991: 287-298.

**Book Chapters**

Stonebraker JS, Keisler JM. Empirically investigating the portfolio management process: Findings from a large pharmaceutical company. In: Salo A, Keisler JM, Morton A (Eds.) *Portfolio Decision Analysis: Improved Methods for Resource Allocation*, Springer, 2011. (Book won the 2013 INFORMS Decision Analysis Society Publication Award.)

Beccue PC, Stonebraker JS. Balancing environmental and operational objectives in nuclear refueling strategies. In: Edwards W, Miles R, von Winterfeldt D (Eds.) *Advances in Decision Analysis*, Cambridge UK: Cambridge University Press, 2007.

**Selected Technical Reports**

Crisp A, Davis R, Dallow N, Machin A, Moate R, Montague T, Murray S, Preston A, Stonebraker JS. Developing decision criteria for Go/No Go, GlaxoSmithKline Biomedical Data Sciences Statistical Points to Consider, 2005.

Stonebraker JS, Dulin JL, Friedland JE, Olso JJ, Artelli MJ, Spees JM. Decision analysis consulting projects. United States Air Force Academy Technical Report 95-1, 1995.

**Selected Technical Reports (continued)**

Stonebraker JS, Kirkwood CW, Pannirselvam GP. Decision Analysis as a Total Quality Management tool: An application to the Malcolm Baldrige National Quality Award. Department of Decision and Information Systems, Arizona State University, Technical Report DIS 93/94-1, 1993.

Francis VE, Stonebraker JS. The application of decision analysis methods to source selection in the U.S. Air Force. United States Air Force Academy Technical Report 91-9, 1991.

**WORKING PAPERS**

Modeling future usage and cost of products to treat Hemophilia A for the USA Western States Region IX Hemophilia Treatment Centers, second revision to *Haemophilia*.

Modeling long-range global demand, submitting to *Operations Research*.

Using equivalent units per capita to measure the level of hemophilia care, submitting to *Haemophilia*.

**Research in Progress**

Latent therapeutic demand.

Long-range global demand.

Production capacity under uncertainty.

Patient Report Outcomes, Burdens, and Experiences (PROBE) in hemophilia.

Modeling global quality of life for hemophiliacs using the PROBE score.

Health-socioeconomic determinants of hemophilia prevalence and factor use: A global study.

Country by country analysis of the expected number of people with hemophilia

Modeling the “true” prevalence of hemophilia using the birth-and-death process.

Market share model in a supply-constrained environment.

**RESEARCH GRANTS AWARDED**

Gonzalez R, Kelley S, Handfield R, Abt R, Lucia L, Jameel H, Stonebraker JS, Blanchard M. Developing Expertise in Risk Analysis and Risk Management for the Bioeconomy (Project ID 582717). US Dept. of Agriculture (USDA) - National Institute of Food and Agriculture, 2018-2023. $238,500.

Skinner MW, Iorio A, Curtis RG, Frick N, Nichol M, Noone D, Page, D, Stonebraker JS. Patient Reported Outcomes, Burdens, and Experiences (PROBE) study. Bayer Healthcare Research Grant, 2018-2020, $50,000.

**RESEARCH GRANTS AWARDED (continued)**

Skinner MW, Iorio A, Curtis RG, Frick N, Nichol M, Noone D, Page, D, Stonebraker JS. Patient Reported Outcomes, Burdens, and Experiences (PROBE) study. CSL Behring investigator-initiated study research funding, 2017-2019, $50,000.

Skinner MW, Iorio A, Curtis RG, Frick N, Nichol M, Noone D, Page, D, Stonebraker JS. Patient Reported Outcomes, Burdens, and Experiences (PROBE) study. Haemophilia Experiences Results Opportunities (HERO) Research Grant (support provided by Novo Nordisk), 2017-2019, €100,000.

Skinner MW, Iorio A, Curtis RG, Frick N, Nichol M, Noone D, Page, D, Stonebraker JS. Patient Reported Outcomes, Burdens, and Experiences (PROBE) study. F. Hoffman-LaRoche Ltd. investigator-initiated study research funding, 2016-2018, Swiss franc 100,000.

Stonebraker, JS. Modeling latent therapeutic demand for primary immune deficiency disorders in the United States. United States Immunodeficiency Networks (USIDNET) Grant for Research in Immunology (support provided by Baxter Pharmaceuticals), 2015, $5,000.

Skinner MW, Iorio A, Curtis RG, Frick N, Nichol M, Noone D, Page, D, Stonebraker JS. Patient Reported Outcomes, Burdens, and Experiences (PROBE) study. Bayer Healthcare Research Grant, 2015-2016, $110,000.

Skinner MW, Iorio A, Curtis RG, Frick N, Nichol M, Noone D, Page, D, Stonebraker JS. Patient Reported Outcomes, Burdens, and Experiences (PROBE) study. Biogen Idec/SOBI Research Grant, 2015-2016, $100,000.

Skinner MW, Iorio A, Curtis RG, Frick N, Nichol M, Noone D, Page, D, Stonebraker JS. Patient Reported Outcomes, Burdens, and Experiences (PROBE) study. Baxter BioScience Research Grant, 2015-2016, $100,000.

Skinner MW, Iorio A, Curtis RG, Frick N, Nichol M, Noone D, Page, D, Stonebraker JS. Patient Reported Outcomes, Burdens, and Experiences (PROBE) study. Haemophilia Experiences Results Opportunities (HERO) Research Grant (support provided by Novo Nordisk), 2015-2016, €60,000.

Stonebraker JS. Probabilistic forecasting of the global demand for the treatment of hemophilia B, The International Institute of Forecasters and SAS® Grant, 2013, $5,000.

Stonebraker JS. Improving production capacity planning for immunoglobulin treatment of common variable immunodeficiency through probabilistic forecasting of the long-term global demand, North Carolina State University, College of Management Gill Grant, 2013, $10,000.

Stonebraker JS. Modeling latent therapeutic demand for common variable immunodeficiency, North Carolina State University, Poole College of Management Faculty Research and Professional Development Grant, 2012, $5,333.

**RESEARCH GRANTS AWARDED (continued)**

Stonebraker JS. Characterizing the analytical process used in evaluating the commercial potential of drug development projects, North Carolina State University, College of Management Gill Grant, 2010, $10,000.

Stonebraker JS. Global health care planning for the treatment of hemophilia A, University of Denver, Professional Research Opportunities for Faculty Grant, 2008, $9,934.

Stonebraker JS. Global health care planning for the treatment of hemophilia A, University of Denver, Faculty Research Fund Grant, 2008, $2,500.

Stonebraker JS. University of Denver, Center for Teaching and Learning, Cooperative Learning Grant, 2008, $1,500.

Stonebraker JS. Global health care planning for the treatment of hemophilia A, University of Denver, International Small Grant, 2008, $600.

Stonebraker JS. Design attributes of a safety capsule to minimize inadvertent detonation of a nuclear warhead, Los Alamos National Laboratory Summer Scholars Program Grant, 1994, $3,000.

Lowe JK, Stonebraker JS. Institute for National Security Studies Grant, 1994, $3,000.

Francis VE, Stonebraker JS. Air Force source selection decision making process, Defense Systems Management College Grant, 1991, $5,000.

Francis VE, Stonebraker JS. Air Force source selection decision making process, Defense Systems Management College Grant, 1990, $5,000.

**POSTERS**

Ducore J, Stonebraker JS. The Estimated Impact of New Therapies on Factor VIII (FVIII) Use and Product Cost by 2023. International Society of Thrombosis and Haemostasis (ITSH), Melbourne, Australia, 2019.

Skinner MW, Chai-Adisaksopha C, Curtis R, Frick N, Iorio A, Nichol M, Noone D, O’Mahony B, Page D, Stonebraker JS. Part-Time Employment and Early Retirement in People with Severe Haemophilia: Insights From The PROBE Study. European Association for Haemophilia and Allied Disorders (EAHAD), Prague, Czech Republic, 2019.

Noone D, Chai-Adisaksopha C, Curtis R, Frick N, Nichol M, O’Mahony B, Page D, Pastarnak A, Stonebraker JS, Iorio A, Skinner MW. Predictors for Acute and Chronic Pain in Patients with Severe Haemophilia in The PROBE Cohort. EAHAD, Prague, Czech Republic, 2019.

Noone D, Chai-Adisaksopha C, Curtis R, Frick N, Nichol M, O’Mahony B, Page D, Pastarnak A, Stonebraker JS, Iorio A, Skinner MW. Impact of acute and chronic pain on the EQ-5D: Insights from the PROBE Study. EAHAD, Prague, Czech Republic, 2019.

**POSTERS (continued)**

Skinner MW, Chai-Adisaksopha C, Curtis R, Frick N, Iorio A, Nichol M, Noone D, O’Mahony B, Page D, Pastarnak A, Stonebraker JS. Impact of hemophilia on employment - Insights from the PROBE Study. National Hemophilia Foundation Bleeding Disorder Congress, 2018.

Noone D, Chai-Adisaksopha C, Curtis R, Frick N, Nichol M, O’Mahony B, Page D, Stonebraker JS, Iorio A, Skinner MW. The effect of haemophilia on activities of daily living (ADL). European Conference on Rare Disease & Orphan Products, 2018.

Skinner MW, Driessens M, Curtis R, Frick N, Iorio A, Nichol M, Noone D, O’Mahony B, Page D, Stonebraker JS. The Patient Reported Outcomes, Burdens and Experiences (PROBE) Study Phase 1 Methodology and Feasibility. The European Conference on Rare Disease & Orphan Products, 2016.

Thompson C, Srivastava A, Skinner M, Stonebraker JS, Epstein J, Kauf T, Valentino LA. The global annual bleed rate in haemophilia: a 2015 estimate. ITSH, Berlin, Germany, 2017.

Skinner MW, Curtis R, Frick N, Iorio A, Nichol M, Noone D, O’Mahony B, Page D, Stonebraker JS. Burden of Comorbidities in Persons Living with Haemophilia: Insight from the PROBE Phase 2b Study Database. ITSH, Berlin, Germany, 2017.

Skinner MW, Curtis R, Frick N, Iorio A, Nichol M, Noone D, O’Mahony B, Page D, Stonebraker JS. The patient reported outcome burdens and experiences (PROBE) study - phase 1 results show PROBE study methodology feasible. ITSH Scientific and Standardization Committee Annual Meeting, Montpellier, France, 2016.

Skinner MW, Driessens M, Curtis R, Frick N, Iorio A, Nichol M, Noone D, O’Mahony B, Page D, Stonebraker JS. The patient reported outcome burdens and experiences (PROBE) study Phase 1 Methodology and Feasibility. The European Conference on Rare Disease & Orphan Products, Edinburgh, United Kingdom, 2016.

Skinner MW, Curtis R, Frick N, Iorio A, Nichol M, Noone D, O’Mahony B, Page D, Stonebraker JS. The patient reported outcome burdens and experiences (PROBE) study Phase 1 methodology and feasibility results. World Federation of Hemophilia World Congress, Orlando, FL 2016.

Skinner MW, Curtis R, Frick N, Iorio A, Nichol M, Noone D, O’Mahony B, Page D, Stonebraker JS. The Patient Reported Outcomes, Burdens, and Experiences (PROBE) Phase 1 Study Methodology and Feasibility. EAHAD, Malmö, Sweden, 2016.

Stonebraker JS, Farrugia A. Using Decision Analysis to Model Latent Therapeutic Demand for Immunoglobulin in Treating Common Variable Immunodeficiency. Annual Meeting Primary Immune Deficiency Diseases North American Conference, Chicago, IL, 2012.

Amand RE, Stonebraker JS. Using a cohort model to anticipate the future therapeutic needs of the hemophilia A patient population. ISTH, Sydney, Australia, 2005.

**POSTERS (continued)**

Stonebraker JS, Amand RE, Bauman MV, Larson PJ. Probabilistic modelling of population-based epidemiology and treatment modalities to determine unconstrained factor VIII demand. National Hemophilia Foundation annual meeting, Salt Lake City, UT, 2003.

Stonebraker JS. Probabilistic modeling of population-based epidemiology and treatment modalities to determine global therapeutic demand for hemophilia A. INFORMS national meeting, Atlanta, GA, 2003.

Larson PJ, Stonebraker JS, Amand RE, Bauman MV, Nagle AJ. Probabilistic modelling of population-based epidemiology and treatment modalities to determine unconstrained factor VIII demand. ITSH, Birmingham, United Kingdom, 2003.

**SELECTED PRESENTATIONS**

Stonebraker JS. Impact on per capita FVIII usage when more countries are buying EHL products and emicizumab. The World Federation of Hemophilia Eleventh Global Forum on Research and Treatment Products for Bleeding Disorders, Montreal, Canada, 2019.

Stonebraker JS. AGS 20th Anniversary; Updated estimates of prevalence and prevalence at birth in hemophilia. The World Federation of Hemophilia Eleventh Global Forum on Research and Treatment Products for Bleeding Disorders, Montreal, Canada, 2019.

Stonebraker JS. Modeling latent therapeutic demand for primary immune deficiency disorders in the United State. Grifols, Research Triangle Park, NC, 2018.

Stonebraker JS. Modeling the future factor usage for Western States Region IX. Annual Conference Western States Regional Hemophilia Treatment Centers, Napa Valley, CA, 2018.

Stonebraker JS. Modeling latent therapeutic demand. INFORMS national meeting, San Francisco CA, 2014.

Stonebraker JS. Modeling Global FVIII and FIX Demand for the Treatment of Hemophilia A and B. World Federation of Hemophilia World Congress, Melbourne, Australia, 2014.

Stonebraker JS. A framework for decision support analysis. The Supply Chain Resource Cooperative (28th Semi-Annual Partnership Meeting), Raleigh, NC, 2013.

Stonebraker JS. Global Capacity Expansion under Uncertainty with Supply-Demand Imbalances. INFORMS national meeting, Minneapolis, MN, 2013.

Stonebraker JS, Farrugia A. Modeling latent therapeutic demand for common variable immunodeficiency. INFORMS national meeting, Phoenix, AZ, 2012.

Stonebraker JS. Hemophilia Quality of Life. National Hemophilia Foundation meeting, Orlando, FL, 2012. (Panelist)

**SELECTED PRESENTATIONS (continued)**

Stonebraker JS, Skinner M, Bickel JE. Modeling global FVIII and FIX demand for the treatment of hemophilia A and B – Country-specific demand models of latent therapeutic demand and economic development status. National Hemophilia Foundation meeting, Orlando, FL, 2012.

Stonebraker JS. Demand Model for Primary Immune Deficiency. Plasma Proteins Therapeutics Association, Washington, DC, 2012.

Stonebraker JS. Research in hemophilia A prevalence, factor VIII use, and latent therapeutic demand. University of North Carolina, School of Medicine, Chapel Hill, NC, 2011.

Stonebraker JS, Keiser JM. Exploratory study on a pharmaceutical company’s portfolio decision process. INFORMS national meeting, Charlotte, NC, 2011.

Stonebraker JS. Using decision analysis to model the triune relationship of supply, demand, and price. INFORMS national meeting, Austin, TX, 2010.

Stonebraker JS. Trends in FVIII use and Latent therapeutic demand – Where we’ve been and Where we’re going. Canadian Blood Services, Ottawa, Canada, 2010.

Stonebraker JS. Using Impact Factor to evaluate and compare INFORMS journals. INFORMS national meeting, San Diego, CA, 2009.

Stonebraker JS. Global factor usage and projected trends in supply and demand. The World Federation of Hemophilia Sixth Global Forum on the Safety and Supply of Treatment Products for Bleeding Disorders, Montreal, Canada, 2009.

Stonebraker JS. Comments on building decision analysis approaches at the FDA. INFORMS national meeting, Washington, DC, 2008.

Stonebraker JS. Medical Technology Evaluation & Assessment. INFORMS national meeting, Seattle, WA, 2007. (Session Chair for 2 sessions)

Stonebraker JS. Understanding the supply-demand-price conundrum. The World Federation of Hemophilia Fifth Global Forum on the Safety and Supply of Treatment Products for Bleeding Disorders, Montreal, Canada, 2007.

Stonebraker JS. The economics of the global market in treatment products for bleeding disorders. The World Federation of Hemophilia Fifth Global Forum on the Safety and Supply of Treatment Products for Bleeding Disorders, Montreal, Canada, 2007. (Panelist)

Stonebraker JS, Keisler JM. Analyzing a portfolio decision process. INFORMS national meeting, Pittsburgh, PA, 2006.

Stonebraker JS, Keefer DL. Best of INFORMS—Modeling the global latent therapeutic demand for hemophilia A. Decision Analysis Affinity Group conference, Philadelphia, PA, 2005.

**SELECTED PRESENTATIONS (continued)**

Stonebraker JS, Keefer DL. Modeling the global latent therapeutic demand for hemophilia A. INFORMS national meeting, Denver, CO, 2004.

Stonebraker JS. De-coupling supply from demand to make an informed business decision. INFORMS national meeting, Atlanta, GA, 2003.

Stonebraker JS. What makes for a successful decision analysis? INFORMS national meeting, Atlanta, GA, 2003. (Panelist)

Stonebraker JS. Therapeutic factor VIII demand model. International Hemophilia Advisory Board meeting, Rome, Italy, 2003.

Stonebraker JS. Commercial evaluation of a blood clot-busting drug. INFORMS national meeting, San Jose, CA, 2002.

Stonebraker JS. Using decision analysis to right-size a manufacturing facility. Decision Analysis Affinity Group conference, Las Vegas, NV, 2002.

Stonebraker JS. Are you ready for the MODA of all portfolio prioritization approaches or is SODA still appropriate. Decision Analysis Affinity Group conference, Houston, TX, 2001.

Stonebraker JS. Using decision analysis to find the right portfolio balance. Pharmaceutical Portfolio Management conference, Philadelphia, PA, 2000.

Stonebraker JS. Learning to learn. INFORMS national meeting, San Diego, CA, 1997.

Stonebraker JS. How do we prepare students to become effective decision makers and/or analysts?. INFORMS national meeting, San Diego, CA, 1997.

Stonebraker JS. Quality Air Force at Air Mobility Command. INFORMS national meeting, Atlanta, GA, 1996.

Stonebraker JS. Tutorial on value-focused thinking. MORS symposium, Fort Leavenworth, KS, 1996.

Artelli MJ, Stonebraker JS. Multiobjective decision analysis applied to the Air Force’s Base Closure and Realignment Selection Process. INFORMS national meeting, Washington, DC, 1996.

Stonebraker JS, Leak BL, Plies WA, Porter TW. Decision analysis efforts at the U.S. Air Force Academy. INFORMS national meeting, Washington, DC, 1996. (Session Chair)

Stonebraker JS. Teaching the practice of decision analysis. INFORMS national meeting, New Orleans, LA, 1995.

Stonebraker JS. Tutorial on the practicality of decision analysis. MORS symposium, United States Naval Academy, MD, 1995.

**SELECTED PRESENTATIONS (continued)**

Stonebraker JS, Dulin JL, Friedland JE, Olson JJ, Artelli MJ, Spees JM. Principles and practice of decision analysis. INFORMS national meeting, Los Angeles, CA, 1995. (Session Chair)

Stonebraker JS. Formulating sequential decisions under uncertainty having continuous variables. TIMS/ORSA national meeting, Boston, MA, 1994.

Stonebraker JS, Kirkwood CW. Applying decision analysis to sequential decisions under uncertainty with continuous decision variables. ORSA/TIMS national meeting, Phoenix, AZ, 1993.

Pannirselvam GP, Stonebraker JS. Decision analysis as a TQM tool: An application to the Baldrige Quality Award. ORSA/TIMS national meeting, Phoenix, AZ, 1993.

Stonebraker JS, Francis VE. Applying decision analysis to source selection. MORS symposium, United States Military Academy, NY, 1991.

Stonebraker JS. Decision analysis at the United States Air Force Academy. TIMS/ORSA national meeting, Nashville, TN, 1991.

Antons CM, Francis VE, Stonebraker JS. Rational decision making and source selection for defense systems. TIMS/ORSA national meeting, Nashville, TN, 1991.

Grey Jr RJ, Francis VE, Stonebraker JS, Tremaine R. Decision theory in source selection for defense systems acquisition. TIMS/ORSA national meeting, Las Vegas, NV, 1990.

**WEBINAR**

Iorio A, Stonebraker JS. Webinar: Updated estimates of prevalence and prevalence at birth of hemophilia. World Federation of Hemophilia. 2019.

**TEACHING**

**North Carolina State University, Poole College of Management**

MBA 504: Data Analysis and Forecasting Methods for Management

Fall 2009, Spring 2010, Fall 2010, Fall 2011, Fall 2012, Spring 2013

MBA 545: Decision Making Under Uncertainty

Fall 2010, Fall 2011, Spring 2012, Fall 2012, Spring 2013, Fall 2013, Spring 2014, Summer 2014 (online), Fall 2014, Spring 2015, Summer 2015 (online), Fall 2015, Spring 2016, Summer 2016 (online), Fall 2016, Spring 2017, Summer 2017 (online), Fall 2017, Spring 2018, Summer 2018 (online), Fall 2018, Spring 2019, Summer 2019 (online), Fall 2019, Fall 2019 (online), Spring 2020 (simulcast), Summer 2020 (online)

MBA 590: Monte Carlo Decision Analytics

Fall 2016 (online), Fall 2017 (online), Spring 2018 (online), Summer 2018 (online), Fall 2018 (online), Summer 2019 (online), Fall 2019 (online), Summer 2020 (online)

MBA 590: Supply Chain Management Practicum

Fall 2009, Spring 2010

BUS 350: Economics and Business Statistics

Summer 2009, Summer 2010

BUS 470: Business Process Management

Spring 2012, Spring 2013, Fall 2013, Spring 2014, Fall 2014, Spring 2015, Fall 2015,

Spring 2016, Fall 2016, Spring 2017, Fall 2017, Spring 2018

BUS 476: Decision Modeling & Analysis

Fall 2018, Spring 2019, Spring 2020

**University of Denver, Daniels College of Business, 2007-09**

Operations Management, Probability and Statistics

**United States Air Force Academy, Department of Mathematical Sciences, 1988-91, 1994-96**

Principles and Practice of Decision Analysis, Probability Models, Mathematical Programming, Multiattribute Utility Theory, Senior Seminar for Operations Research Majors, Probability and Statistics, Differential Equations and Matrix Algebra, Integral Calculus, Differential Calculus

**Graduate Courses Developed & Taught as an Adjunct**

Operations Research for Management, Naval Postgraduate School, 1998

Decision Analysis, Santa Clara University, 1998

Managerial Decision Analysis, Arizona State University, 1997

Advanced Decision Analysis, Colorado Technical University, 1995-96

Quantitative Decision Models, Chapman University, 1991

**Executive Education Short Courses Developed & Taught**

Decision Criteria Development, GlaxoSmithKline, 2005-06

Drug Development and the Dialogue Decision Process, Bayer Corporation, 1999-2001

Decision Analysis and Supertree, Ramtron Corporation, 1991

**ACADEMIC SERVICE**

**Service to Profession**

Chair, World Federation of Hemophilia, Data & Demographic Committee, 2018-present

Vice Chair, World Federation of Hemophilia, Data & Demographic Committee, 2017-2018

Member, US Expert Reference Group, Cost of Hemophilia: a Socioeconomic Survey (CHESS), 2017-present

Member, Editorial Board for *Decision Analysis*, 2008-present

Member, Hemophilia HEOR Experts Advisory Board, 2016

Member, World Federation of Hemophilia, Data & Demographic Committee, 2008-present

Member, INFORMS Prize committee, 2011-13

Member, INFORMS Decision Analysis Society Practice Award Committee, 2013

Member, INFORMS Decision Analysis Society Leadership Council, 2004-07

Co-chair, Membership Committee for INFORMS Decision Analysis Society, 2006-07

Co-chair, Student Paper Award Committee for the INFORMS Decision Analysis Society, 2003-06

Member, Student Paper Award Committee for the INFORMS Decision Analysis Society, 2002

Member, Publication Award Committee for the INFORMS Decision Analysis Society, 2001

Ad Hoc Referee for *Operations Research*, *Decision Analysis*, *Interfaces*, *INFORMS Transaction on Education*, *International Journal of Production Economics*, *SPE Economics & Management*, *Haemophilia*

**Service to North Carolina State**

Member, BSBA Curriculum Committee, 2016-present

Member, College Research Committee, 2015-2020

Co-chair with Dr. Ronalds Gonzalez, Department of Forest Biomaterials for the PhD dissertation of Camilla Abbati de Assis, 2017-2019.

Member, Recruiting Committee for Supply Chain Management/Ops Management non-tenure position, 2019

Member, Recruiting Committee for Supply Chain Management/Ops Management tenure-track position, 2018

Member, Recruiting Committee for Analytics non-tenure position, 2018

Member, College Strategic Planning Committee, 2014-16

Member, Data Analytics Committee, 2014-16

Member, Recruiting Committee for Supply Chain Management/Ops Management tenure-track position, 2012-13

Member, Recruiting Committee for Statistics Professor of Practice position, 2012-13

Member, Supply Chain Resource Cooperative Board of Advisors, 2012-13

Member, Recruiting Committee for Supply Chain Management position, 2010-11

Instructor, MBA boot camp for incoming full-time MBA students, 2010

**Service to the United States Air Force Academy Department of Mathematical Sciences**

Division Chief of Military Faculty Hiring, 1994-96

Academic & Career Advisor to Operations Research majors, 1990-91, 1994-96

Member, Civilian Faculty Hiring Committee, 1996

Member, Operations Research Curriculum Reform Committee, 1995

Faculty Coach, International Mathematical Contest on Modeling, 1995

Academic Assessment Division Chief, 1994

Faculty Representative for ORSA Student Chapter, 1990-91

Cadet Sponsor, 1989-91

Assistant Division Chief of Military Faculty Hiring, 1989-91

Assistant Sponsored Research Director, 1989-90

**AWARDS AND HONORS**

Finalist, INFORMS Decision Analysis Society Publication Award, 2015

NC State Poole College of Management Research Growth & Innovation Award, 2014

NC State Department of Business Management Research Growth & Innovation Award, 2014

NC State Department of Business Management Teaching Award, 2013

Fellow of the Society of Decision Professionals, 2010

Finalist, INFORMS Operations Research in Practice Poster Competition, 2003

Finalist, 5th Annual INFORMS Decision Analysis Society Practice Award Competition, 2003

Winner, 4th Annual INFORMS Decision Analysis Society Practice Award Competition, 2002

United States Air Force Academy’s Outstanding Operations Research Instructor Award, 1996

Alpha Iota Delta National Honor Society (decision sciences), 1993

Air Force Sponsorship for Doctoral Study, Arizona State University, 1991-93

Top-ranked junior faculty, US Air Force Academy Dept. of Mathematical Sciences, 1990

Top-ranked junior faculty, US Air Force Academy Dept. of Mathematical Sciences, 1989

Air Force Sponsorship for Master’s Degree, Stanford University, 1987-88

Phi Kappa Phi National Honor Society (all disciplines), 1982

Tau Beta Pi National Honor Society (engineering), 1982

Air Force College Senior Engineering Program, University of South Florida, 1982-83