

Ronald A. Thisted

April, 2016

Office of the Provost
The University of Chicago
Levi Hall, Room 522
5801 South Ellis Avenue
Chicago, Illinois 60637
(773) 702-5539

Department of Public Health Sciences
The University of Chicago
Room AMB W253, MC2000
5841 South Maryland Avenue
Chicago, Illinois 60637
email: r-thisted@uchicago.edu

Education: Ph.D. (Statistics) Stanford University, 1977.

M.S. (Statistics) Stanford University, 1973.

B.A. (Mathematics, Philosophy) Pomona College, 1972. Magna cum laude

Professional: *All at the University of Chicago:*

2014– Vice-Provost, Academic Affairs

2009– Member, Committee on Clinical and Translational Science

2007–2014 Director, Population Sciences, Institute for Translational Medicine

2005– Member, Center for Cognitive and Social Neuroscience

2001–2008 Member, Institute for Mind and Biology

2000–2014 Director, Biostatistics Core Facility, University of Chicago Cancer Research Center

1999–2012 Chairman, Department of Health Studies (now Public Health Sciences)

1999–2012 Co-Director, Clinical Research Training Program

1996– Professor, Department of Public Health Sciences (Health Studies until 2014)

1993–1998 Co-Director, Robert Wood Johnson Clinical Scholars Program

1993– Professor, Committee on Clinical Pharmacology and Pharmacogenomics

1992– Professor, Departments of Statistics, Anesthesia & Critical Care, and the College

1989–1992 Associate Professor, Department of Anesthesia and Critical Care

1982–1992 Associate Professor, Department of Statistics and the College

1979–1982 Leonard Jimmie Savage Assistant Professor, Department of Statistics and the College

1976–1982 Assistant Professor, Department of Statistics and the College

Honors: Phi Beta Kappa, Pomona College, 1972.

Sigma Xi, The University of Chicago, 1977.

The Llewellyn John and Harriet Manchester Quantrell Award for Excellence in Undergraduate Teaching, 1981.

Professional Societies:

American Association for the Advancement of Science (Elected Fellow, 1992)

1994–1997 Electorate Nominating Committee, Section on Statistics

American Statistical Association (Elected Fellow, 1988)

1987–1989 Section on Statistical Graphics, Chair (1988)

1994–1996 Executive Committee, Section on Statistical Education

1994–1996 Section Representative, Section on Statistical Computing

Association for Computing Machinery

International Biometric Society, ENAR

Institute of Mathematical Statistics

1987–1990 Nominating Committee

1989–1993, 1999–2002 Management Committee, *Current Index to Statistics*

Royal Statistical Society

Society for Industrial and Applied Mathematics, (Visiting Lecturer, 1979–80)

Editorial: *Computing Reviews*, Reviewer (1978–1987).

J American Statistical Assoc, Associate Editor (1979–1985, 1987–1988).

SIAM J Scientific and Statistical Computing, Editorial Board (1983–1985).

ACM Trans on Math Software, Associate Editor (1990–1992).

Current Index to Statistics, Database Ed. (1994); Managing Ed. (1995); Editor (1996–1998).

Selected Publications

Books

- [1] *Elements of Statistical Computing: Numerical Computation*. Chapman & Hall: London. 1988.
- [2] The Chicago Social Brain Network. *Invisible Forces and Powerful Beliefs: Gravity, Gods, and Minds*. FT Press Science: Upper Saddle River, NJ. 2010.

Original Articles

- [2] "The Prediction of Homicide with the Rorschach" (D Lester, J Kendra, R Thisted, W Perdue). *J. Clinical Psych.*, **31**, (1976), 752.
- [3] "Estimating the Number of Unseen Species: How Many Words Did Shakespeare Know?" (B Efron, RA Thisted). *Biometrika*, **63**, (1976), 435-447.
- [4] *Ridge Regression, Minimax Estimation, and Empirical Bayes Methods*. Ph.D. Thesis, Department of Statistics, Stanford University (1976).
- [5] "Prediction of Homicide and Suicide: A Test in a Healthy Risk-Taking Group" (D Lester, JM Kendra, RA Thisted). *Perceptual and Motor Skills*, **44**, (1977), 222.
- [6] "Teaching Statistical Computing Using Computer Packages" (with Discussion), *The American Statistician*, **33**, (1979), 27-35.
- [7] "User Documentation and Control Language I: Evaluation and Comparison of Statistical Computer Packages." *Computers & Education*, **3**, (1979), 135-141.
- [8] "Predicting a Multitude of Time Series" (RA Thisted, WE Wecker). *Journal of the American Statistical Association*, **75**, (1980), 81-86.
- [9] "Lactic Acidemia in Reye's Syndrome" (JH Tongsgard, PR Huttenlocher, RA Thisted). *Pediatrics*, **69**, (1982), 64-69.
- [10] "Maximum Likelihood Estimation of Isotonic Modal Regression" (T Sager, R Thisted). *Annals of Statistics*, **10**, (1982), 690-707.
- [11] "Safety and Efficacy of Chymopapain (Chymodiactin) in Herniated Nucleus Pulposus With Sciatica: Results of a Randomized, Double-blind Study" (MJ Javid, EJ Nordby, LT Ford, WJ Hejna, WW Whisler, C Burton, DK Millett, LL Wiltse, EH Widell Jr, RJ Boyd, StE Newton, RA Thisted). *Journal of the American Medical Association*, **249:18**, (1983), 2489-2494.
- [12] "A Statistical Study of Mate Choice: Sexual Selection in a Plethodontid Salamander (*Desmognathus Ochrophæus*)," (L Houck, SJ Arnold, RA Thisted). *Evolution*, **39**, (1985), 370-386.
- [13] "Chymodiactin in Patients with Herniated Lumbar Intervertebral Disc(s): An Open-Label, Multicenter Study," (DJ McDermott, K Agre, M Brim, FJ Demma, J Nelson, RR Wilson, RA Thisted). *Spine*, **10**, (1985), 242-249.
- [14] "Decreased Incidence and Mortality of Anaphylaxis to Chymopapain," (J Moss, MF Roizen, EJ Nordby, RA Thisted, JL Apfelbaum, BD Schreider, DJ McDermott). *Anesthesia and Analgesia*, **64**, (1985), 1197-1201.
- [15] "Computing Environments for Data Analysis," (with Discussion), *Statistical Science*, **1**, (1986), 259-275.
- [16] "Did Shakespeare Write a Newly-Discovered Poem?" (R Thisted, B Efron). *Biometrika*, **74**, (1987), 445-455.
- [17] "Cervical Injury in Head Trauma," (GL Neifeld, JG Keene, G Hevesy, J Leikin, A Proust, RA Thisted). *Journal of Emergency Medicine*, **6**, (1988), 203-207.
- [18] "Patient-Applied Podofilox for Treatment of Genital Warts," (KR Beutner, MA Conant, AE Friedman-Kien, M Illeman, NN Artman, RA Thisted, DH King). *Lancet*, (1989, April 15), 831-834.
- [19] "Using a National Health Care Data Base to Determine Surgical Complications in Community Hospitals: Lumbar Discectomy as an Example" (L Ramirez, R Thisted). *Neurosurgery*, **25**, (1989), 218-225.

- [20] “Complications and Demographic Characteristics of Patients Undergoing Lumbar Discectomy in Community Hospitals,” (L Ramirez, R Thisted). *Neurosurgery*, **25**, (1989), 226–231.
- [21] “Increased Risk for Gestational Diabetes Mellitus Associated with Insulin Receptor and Insulin-like Growth Factor II Restriction Fragment Length Polymorphisms” (C Ober, KS Xiang, RA Thisted, KA Intovina, CJ Wason, S Dooley). *Genetic Epidemiology*, **6**, (1989), 559–569.
- [22] “Alcohol after Midazolam Sedation: Does it Really Matter?,” (JL Lichtor, J Zacny, K Korttila, JL Apfelbaum, BS Lane, G Rupani, RA Thisted, C Dohrn), *Anesthesia & Analgesia*, **72**, (1991), 661–666.
- [23] “Spreading Depression Increases Immunohistochemical Staining of Glial Fibrillary Acidic Protein,” (RP Kraig, L Dong, R Thisted, CB Jaeger). *Journal of Neuroscience*, **11**(7), (1991), 2187–2198.
- [24] “Intravenous Lidocaine does not Cause Shivering-like Tremor or Alter Thermoregulation,” (B Glosten, DI Sessler, LG Östman, EAM Faure, L Karl, RA Thisted). *Regional Anesthesia*, **16**, (1991), 218–222.
- [25] “The Automated Interview *vs.* the Personal Interview: Do Patient Responses to Preoperative Health Questions Differ?” (RE Lutner, MF Roizen, CB Stocking, RA Thisted, S Kim, PC Duke, P Pompeii, CK Cassel). *Anesthesiology*, **75**, (1991), 394–400.
- [26] “Predictors of Body Surface Area” (Y Wang, J Moss, R Thisted). *Journal of Clinical Anesthesia*, **4**, (1992), 4–10.
- [27] “Alcohol After Intravenous Midazolam-Fentanyl Sedation: Effects on Psychomotor Functioning,” (JL Lichtor, J Zacny, JL Apfelbaum, BS Lane, G Rupani, RA Thisted, C Dohrn, K Kortilla). *British Journal of Anesthesia*, **67**, (1991) 579–584.
- [28] “Sleep and Psychiatric Disorders: A Meta-Analysis,” (RM Benca, WH Obermeyer, RA Thisted, JC Gillin). *Archives of General Psychiatry*, **49**, (1992), 651–668. With editorial.
- [29] “Thromboelastogram Fails to Predict Postoperative Hemorrhage in Cardiac Patients,” (JS Wang, CY Lin, WT Hung, MF O’Connor, RA Thisted, BK Lee, RB Karp, MW Yang). *Annals of Thoracic Surgery*, **53**, (1992), 435–439.
- [31] “Central Temperature Changes are not Perceived During Epidural Anesthesia,” (B Glosten, DI Sessler, EAM Faure, L Karl, RA Thisted). *Anesthesiology*, **77**, (1992), 10–16.
- [32] “The Risk of Human Immunodeficiency Virus in Surgeons, Anesthetists, and Medical Students,” (JM Buerger, R Kim, RA Thisted, MF Roizen). *Anesthesia & Analgesia*, **75**, (1992), 118–124.
- [33] “Reassessment of Preoperative Laboratory Testing Has Changed the Test-Ordering Patterns of Physicians” (A Macario, MF Roizen, RA Thisted, S Kim, FK Orkin, C Phelps). *Surgery, Gynecology & Obstetrics*, **175**, (1992), 539–547.
- [34] “Echocardiographic Analysis of Dysfunctional and Normal Myocardial Segments Before and Immediately After Coronary Artery Bypass Graft Surgery,” (P Voci, F Bilotta, S Aronson, G Scibilia, Q Caretta, C Mercanti, B Marino, R Thisted, MF Roizen, A Reale). *Anesthesia & Analgesia*, **75**, (1992), 213–218.
- [35] “The Influence of Intravenous Albuterol Injections on Pulmonary Arterial Pressure, Gas Exchange, and Left Ventricular Peak Intensity,” (R Walker, JG Weincek, S Aronson, J Zaroff, D Glock, R Thisted, SB Feinstein). *Journal of the American Society of Echocardiography*, **5**, (1992), 463–470.
- [36] “In Vitro Effects of Aprotinin on Activated Clotting Time Measured with Different Activators,” (JS Wang, CY Lin, WT Hung, RA Thisted, RB Karp). *Journal of Thoracic and Cardiovascular Surgery*, **104**, (1992), 1135–1140.
- [37] “Can Patients Use an Automated Questionnaire to Define Their Current Health Status?” (MF Roizen, D Coalson, RS Hayward, J Schmittner, RA Thisted, JL Apfelbaum, CB Stocking, P Pompei, DE Ford, *et al.*). *Medical Care*, **30**, (1992), MS74–84.
- [38] “Disease-Specific Survival Following Routine Prostate Cancer Screening by Digital Rectal Examination,” (GS Gerber, IM Thompson, R Thisted, GW Chodak). *Journal of the American Medical Association*, **269**, (1993), 61–64.

- [39] "The Interaction between Alcohol and the Residual Effects of Thiopental," (JL Lichtor, JP Zacny, DW Coalson, DC Flemming, A Uitvlugt, JL Apfelbaum, BS Lane, RA Thisted). *Anesthesiology*, **79**, (1993), 28–35.
- [40] "A proposal to use confidence intervals for visual analog scale data for pain measurement to determine clinical significance," (S Mantha, R Thisted, J Foss, JE Ellis, MF Roizen). *Anesthesia & Analgesia*, **77**, (1993), 1041–1047.
- [41] "The initial clinical experience of 1819 physicians in maintaining anesthesia with propofol: Characteristics associated with prolonged time to awakening," (JL Apfelbaum, TH Grasela, CC Hug, CH McLeskey, ML Nahrwold, MF Roizen, TH Stanley, RA Thisted, CA Walawander, PF White). *Anesthesia & Analgesia*, **77**, (1993), S10–14.
- [42] "The role of pharmacoepidemiology research in postmarketing surveillance and anesthesia practice/critical care medicine," (TH Grasela, WD Watkins, CC Hug, CH McLeskey, ML Nahrwold, MF Roizen, TH Stanley, RA Thisted, CA Walawander, PF White, JL Apfelbaum). *Anesthesia & Analgesia*, **77**, (1993), S44–50.
- [43] "Hemodynamic effects of propofol: Data from over 25,000 patients," (CC Hug, CH McLeskey, ML Nahrwold, MF Roizen, TH Stanley, RA Thisted, CA Walawander, PF White, JL Apfelbaum, TH Grasela). *Anesthesia & Analgesia*, **77**, (1993), S21–29.
- [44] "Adverse events in a multicenter Phase IV study of propofol: Evaluation by anesthesiologists and PACU nurses," (CH McLeskey, CA Walawander, ML Nahrwold, MF Roizen, TH Stanley, RA Thisted, PF White, JL Apfelbaum, TH Grasela, CC Hug). *Anesthesia & Analgesia*, **77**, (1993), S3–9.
- [45] "Phase IV study of propofol: Validation of the data set," (ML Nahrwold, MF Roizen, TH Stanley, RA Thisted, CA Walawander, PF White, JL Apfelbaum, TH Grasela, CC Hug, CH McLeskey). *Anesthesia & Analgesia*, **77**, (1993), S34–43.
- [46] "How do anesthesiologists select patients when introducing a new drug into practice?" (MF Roizen, TH Stanley, RA Thisted, CA Walawander, PF White, JL Apfelbaum, TH Grasela, CC Hug, CH McLeskey, ML Nahrwold). *Anesthesia & Analgesia*, **77**, (1993), S30–33.
- [47] "Effects on recovery when isoflurane is used to supplement propofol-nitrous oxide anesthesia," (PF White, TH Stanley, JL Apfelbaum, TH Grasela, CC Hug, CH McLeskey, ML Nahrwold, MF Roizen, RA Thisted, CA Walawander). *Anesthesia & Analgesia*, **77**, (1993), S15–20.
- [48] "Predictive and Diagnostic Tests of Renal Failure: A Review," (M Kellen, S Aronson, MF Roizen, J Barnard, RA Thisted). *Anesthesia & Analgesia*, **78**, (1994), 134–142.
- [49] "Association of Preoperative Risk Factors with Postoperative Acute Renal Failure," (BK Novis, MF Roizen, S Aronson, RA Thisted). *Anesthesia & Analgesia*, **78**, (1994), 143–149.
- [50] "Results of Conservative Management of Clinically Localized Prostate Cancer," (GW Chodak, RA Thisted, GS Gerber, J-E Johansson, J Adolfsson, G Jones, G Chisholm, B Moskovitz, J Warner). *New England Journal of Medicine*, **330**, (1994), 242–248.
- [51] "Relative Effectiveness of Four Preoperative Tests for Predicting Adverse Cardiac Outcomes After Vascular Surgery: A Meta-Analysis," (S Mantha, MF Roizen, J Barnard, RA Thisted, JE Ellis, J Foss). *Anesthesia & Analgesia*, **79**, (1994), 422–433.
- [52] "Premedication with Oral and Transdermal Clonidine Provides Safe and Efficacious Postoperative Sympatholysis," (JE Ellis, G Drijvers, S Pedlow, SP Laff, MJ Sorrentino, JF Foss, M Shah, JR Busse, S Mantha, J McKinsey, J Osinski, RA Thisted, MF Roizen). *Anesthesia & Analgesia*, **79**, (1994), 1133–40.
- [53] "Mucosal allergy in the absence of systemic allergy in nasal polyposis and rhinitis: a meta-analysis," (JS Shatkin, KG Delsupehe, RA Thisted, JP Corey). *Otolaryngology – Head & Neck Surgery*, **111**(5), (1994), 553–6.
- [54] "Estimation of the association between desipramine and the risk for sudden death in 5 to 14-year-old children," (J Biederman, RA Thisted, L Greenhill, ND Ryan). *Journal of Clinical Psychiatry*, **56**, (1995), 87–93.
- [55] "A comparison of intraarticular morphine to bupivacaine for pain control following local knee arthroscopy in the day surgery setting: A prospective, randomized, double-blinded study," (JW

- Jaureguito, JF Wilcox, SJ Cohn, RA Thisted, B Reider). *American Journal of Sports Medicine*, **23**, (1995), 350–3.
- [56] “Prospective, randomized, double-blind trial of BQ-123 and bosentan for prevention of vasospasm following subarachnoid hemorrhage in monkeys.” (A Hino, BK Weir, RL Macdonald, RA Thisted, et al) *Journal of Neurosurgery*, **83**, (1995), 503–9.
- [57] “Resolved: cardiac arrhythmias make desipramine an unacceptable choice in children.” (JS Werry, J Biederman, R Thisted, L Greenhill, et al) *Journal of the American Academy of Child & Adolescent Psychiatry*, **34**, (1995), 1239–45; discussion 1245–8.
- [58] “Short-term outcomes after cryosurgical ablation of the prostate in men with recurrent prostate carcinoma following radiation therapy,” (GT Bales, MJ Williams, M Sinner, RA Thisted, GW Chodak), *Urology*, **46**(5), (1995), 676–80.
- [59] “Results of radical prostatectomy in men with clinically localized prostate cancer,” (GS Gerber, RA Thisted, PT Scardino, HG Frohmuller, FH Schroeder, DF Paulson, AW Middleton, Jr., DB Rukstalis, JA Smith, Jr., PF Schellhammer, M Ohori, GW Chodak), *JAMA*, **276**(8), (1996), 615–9.
- [60] “Eye injuries after nonocular surgery. A study of 60,965 anesthetics from 1988 to 1992,” (S Roth, RA Thisted, JP Erickson, S Black, BD Schreider), *Anesthesiology*, **85**(5), (1996), 1020–7.
- [61] “Glutamine protects intestinal epithelial cells: Role of inducible HSP70,” (PE Wischmeyer, MW Musch, MB Madonna, R Thisted, EB Chang), *Am J Physiol*, **272** (*Gastrointest Liver Physiol*, **35**), 1997, G879–G884.
- [62] “Postcesarean analgesia with both epidural morphine and intravenous patient-controlled analgesia: Neurobehavioral outcomes among nursing neonates.” (B Wittels, B Glosten, EAM Faure, AH Moawad, M Ismail, J Hibbard, JA Senal, SM Cox, SC Blackman, L Karl, RA Thisted) *Anesthesia & Analgesia*, **85** (1997) 600–606.
- [63] “Results of radical prostatectomy in men with locally advanced prostate cancer: multi-institutional pooled analysis.” (Gerber GS, Thisted RA, Chodak GW, Schroder FH, Frohmuller HG, Scardino PT, Paulson DF, Middleton AW Jr, Rukstalis DB, Smith JA Jr, Ohori M, Theiss M, Schellhammer PF) *European Urology*. **32**(4), (1997) 385–390.
- [64] “SPECT brain imaging in epilepsy: a meta-analysis.” (Devous MD Sr, Thisted RA, Morgan GF, Leroy RF, Rowe CC) *Journal of Nuclear Medicine*, **39**(2), (1998) 285–293.
- [65] “Computer Architecture,” *Encyclopedia of Biostatistics*, Wiley: New York. (1998).
- [66] “Is geographic variation in hip fracture rates related to current or former state of residence?” (DS Lauderdale, RA Thisted, J Goldberg) *Epidemiology*, **9**(5), (1998) 574–577.
- [67] “Tryptase levels are not increased during vancomycin-induced anaphylactoid reactions” (CL Renz, D Laroche, JD Thurn, HA Finn, JP Lynch, R Thisted, J Moss) *Anesthesiology*, **89**, (1998) 620–625.
- [68] “Clinical trials in general surgical journals: are methods better reported?” (LP Schumm, JS Fisher, RA Thisted, J Olak) *Surgery*, **125**(1), (1999) 41–45.
- [69] “Comparing methods of clinical measurement: Reporting standards for Bland and Altman analysis” (S Mantha, MF Roizen, LA Fleischer, R Thisted, J Foss) *Anesthesia & Analgesia*, **90** (2000) 593–602.
- [70] “New scoring system identifies kidney outcome with radiation therapy in acute renal allograft rejection” (Chen LM, Godinez J, Thisted RA, Woodle ES, Thistlewaite JR, Powers C, Haraf D) *Int J Radiat Oncol Biol Phys*, **46**(4) (2000) 999–1003.
- [71] “A meta-analysis and overview of the literature on treatment options for left-sided ulcerative colitis and ulcerative proctitis” (Cohen RD, Woseth DM, Thisted RA, Hanauer SB) *Am J Gastroenterol*, **95**(5) (2000) 1263–76.
- [72] “The impact of contralateral breast cancer on the outcome of breast cancer patients treated with mastectomy,” (I Abdalla, R Thisted, R Heimann) *Cancer J Sci Am*, **6**(4) (2000) 266–72.
- [73] “SPECT perfusion imaging in the diagnosis of Alzheimer’s disease: A clinical-pathologic study,” (W Jagust, R Thisted, MD Devous, Sr., R Van Heertum, H Mayberg, K Jobst, AD Smith, N Borys), *Neurology*, **56**(7), (2001), 950–6.

Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.