

CURRICULUM VITAE

Robert D. Gibbons	Rooms 455-457
June 28, 1955	1601 W. Taylor
University of Illinois	Chicago, Il. 60612
Center for Health Statistics	312-413-7755

PROFESSIONAL EXPERIENCE:

2000-present Director, *Center for Health Statistics*, University of Illinois at Chicago.
1993-present Professor of Biostatistics, University of Illinois at Chicago.
1985-1993 Associate Professor of Biostatistics, University of Illinois at Chicago.
1988-1989 Visiting Professor, University of Chicago.
1981-1985 Assistant Professor of Biostatistics, University of Illinois at Chicago.
1981-1986 Statistical Consultant, National Institute of Mental Health.
1980-1992 Statistical Consultant, IIT Research Institute.
1980-1992 Statistical Consultant / Visiting Professor, Rush Medical School.
1980-1981 Senior Programmer and Statistician, University of Chicago, DOD/NORC.
1978-1982 Statistician, Illinois State Psychiatric Institute.
1978-1980 Statistical Consultant, Harvard University, Department of Psychology.
1977-1978 Statistical Analyst, University of Chicago, Department of Psychiatry.

EDUCATION:

Ph.D., University of Chicago, 1981, Statistics and Psychometrics.

Dissertation Topic: Trend in Correlated Proportions

Dissertation Chairman: R. Darrell Bock

B.A., University of Denver, 1976, Chemistry and Mathematics

HONORS:

University of Chicago - Scholarship for Graduate Study, 1978-1981
Office of Naval Research - Young Investigator Award, 1985-1992
U.S. Patent #4,807,163 Digital Analysis of Multiple Component Visible Fields, 2/21/1989
National Institute of Mental Health - Services Research IRG Member, 1992-1996
National Institute of Mental Health - Research Scientist Award, 1995-2000
Institute of Medicine - Committee on the Drug Halcion, 1997
Veterans Administration - Cooperative Study Review Board, 1998
20th Century Distinguished Service Award for Outstanding Contribution to the Development of Statistical Ecology, Environmental Statistics and Risk Assessment, 2000
Institute of Medicine - Committee on Organ Procurement and Transplantation Policy, 1999
Institute of Medicine - Health Sciences Policy Board Member, 1999-2004
Congressional Testimony on Allocation of Organs for Transplantation, 9/21/1999

Institute of Medicine - Committee on Small n Clinical Trials, 2001
 Institute of Medicine - Committee on Adolescent and Adult Suicide, 2002
 Fellow of the American Statistical Association, 2001
 Member of the Institute of Medicine of the National Academy of Sciences, 2001
 Member of the American College of Neuropsychopharmacology, 2001
 Youden Prize for Contributions to Inter-laboratory Calibration (ASA, 2002)
 Harvard Award in Psychiatric Epidemiology and Biostatistics, (Harvard, 2003)
 2001 Book with Coleman ranked in the top 5 books for Statisticians by the ASA
 FDA Advisory Board on Suicide and Antidepressants in Adolescents, 2004
 Institute of Medicine - Committee on National Cord Blood Stem Cell Program, 2005
 Institute of Medicine - Committee on US Drug Safety, 2005-2006
 Youden Prize for Contributions to Inter-laboratory Calibration (ASA, 2006)
 NIH Consensus Panel on the Efficacy and Safety of Multivitamins, 2006
 VA - Blue Ribbon Working Group on Suicide Prevention in the Veterans Population, 2008
 Institute of Medicine/NRC - Asbestos Research Roadmap Committee, 2009
 Institute of Medicine - Co-Chair - CNS Clinical Trials: Suicidality and Data Collection, 2009
 University of Illinois at Chicago - Distinguished Faculty Award, 2009
 American Statistical Association - Outstanding Statistical Applications Award, 2009

RESEARCH SUPPORT:

- 1984-1985 Campus Research Board of the University of Illinois. Grant #889 *Statistical Models of Complex Psychiatric Data*. \$10,300 (PI)
- 1985-1988 Office of Naval Research. Young Investigator Award. *Conditional Dependence*, \$181,000 (PI).
- 1986-1987 National Institute of Mental Health. *A Comparison of Discrete and Continuous Latent Structure*, Grant #1RO3 MH 39750-01 A1 \$15,000, 1986 (Co. PI).
- 1985-1987 MacArthur Foundation, Network I, *Biometric Laboratory Support* \$150,000 (PI).
- 1988-1989 Campus Research Board of the University of Illinois. Grant #5590 *Statistical Visualization*. \$8,000 (PI).
- 1988-1990 MacArthur Foundation, Network I, *A Statistical Model for Biological Rhythm Study* \$30,000 (PI).
- 1988-1991 Office of Naval Research. Continuation of Support for *Conditional Dependence*, \$184,000 (PI).
- 1990-1992 National Institute of Mental Health. *Problem Drinking Over Time by Future MDs* Grant # RO1 AA07311-05, \$493,233, Statistician, (Dr. Judy Richman PI).
- 1990-1991 MacArthur Foundation, Network I, *Social Zeitgebers and Biological Rhythms* \$24,000. (Co. PI).
- 1990-1991 National Institute of Mental Health. *MIXMASTER: A computer program for resolving normal mixtures*, Grant #R43 MH 45620-01 A1 \$50,000, (PI).
- 1991-1995 National Institute of Mental Health. *Statistical Evaluation: Preschoolers Behavior Problems & Health Care Use: A Longitudinal Study*, Grant # RO1 MH46089, \$154,603, (Biostatistical Subcontract - Dr. John Lavigne PI).

- 1991-1993 National Institute of Mental Health. *Random Regression Models for Longitudinal Psychiatric Data*, Grant #RO1 MH 44826-01 A2 \$299,000, (PI).
- 1991-1992 National Institute of Mental Health. *Monoamine Receptor Sensitivity in Mental Illness*, Grant #RO1 MH36169-08A2, \$187,040, Statistician, (Dr. Ghanshyam PI).
- 1991-1992 MacArthur Foundation, Network I, *A Statistical Re-evaluation of the NIMH Treatment Collaborative Study of Depression Using Random Regression Models*, \$34,167. (PI).
- 1992-1997 National Institute of Mental Health. *Schizophrenic Cognition: A Longitudinal Study*, Grant # HHS-2 RO1 MH26341-17, \$36,000 Biostatistical subcontract, (Dr. Martin Harrow PI).
- 1992-1996 National Institute of Mental Health. *Serotonin Receptors in Teenage Suicide and Their Families*, Grant # RO1 MH48153-01A1, \$940,316, Statistician, (Dr. Ghanshyam Pandey PI).
- 1993-1996 National Institute of Mental Health. *Random Regression Models for Longitudinal Psychiatric Data*, Grant #RO1 MH 44826-03 A1 \$473,080, (PI). Renewal
- 1995-2000 National Institute of Mental Health. *Research Scientist Award* Grant #K05 MH01254 \$458,132 (PI).
- 1996-2000 National Institute of Mental Health. *Statistical Models for Nested Service Utilization Data* Grant #RO1 MH 56146 \$473,080 (CO-PI) (Dr. Donald Hedeker PI).
- 2000-2004 National Institute of Mental Health. *Statistical Models for Nested Service Utilization Data* (percentile = 0.5) Grant #RO1 MH 56146-04 \$1,233,936 (CO-PI) (Dr. Donald Hedeker PI).
- 2000-2007 National Institute of Mental Health. *Statistical Center for the MTA Follow-up Study*, \$923,000 (PI).
- 2002-2007 National Institute of Mental Health. *Mixed-effects ZIP models for Mental Health Services Research*, #RO1 MH65556-01, \$660,735 (PI).
- 2002-2006 National Institute of Mental Health. *Mental Health Computerized Adaptive Testing*, Grant #RO1 MH66302-01, \$1,077,502 (PI).
- 2004-2007 National Institute of Mental Health. *Multivariate Probit Model for Health Services Research*, Grant #RO1 MH67198-01, \$663,950 (Dr. Hua Yun Chen PI).
- 2005-2008 National Institute of Mental Health. *Statistical Testing for Generalized Mixed-effects Models*, Grant #RO1 MH069353, \$450,000 (Dr. Dulal Bhaumik PI).
- 2005-2006 National Cancer Institute. *Evaluation of the Added-Value of Multidimensional and Hierarchical Psychometric Modeling for Cancer Outcomes*, Contract #05828, \$150,000 (PI).
- 2006-2011 National Institute of Mental Health. *Mental Health Computerized Adaptive Testing - Competitive Renewal*, Grant #RO1 MH66302-04, \$3,429,658 (PI).
- 2006-2007 National Institute of Mental Health. *Antidepressant Treatment and Suicidality: Methodological and Biostatistical Solutions*. #R56 MH078580-01, \$232,500 (PI).
- 2007-2012 National Institute of Mental Health. *Autism Center of Excellence: Translational Studies of Insistence of Sameness in Autism*. 1P50HD055751, \$9,600,000 (PI of Statistical Core).

- 2007-2011 National Institute of Health (AHRQ - CERT). *Tools for Optimizing Prescribing, Monitoring and Education*. U18HS016973, \$4,000,000 (PI of Statistical Core).
- 2008-2013 National Institute of Mental Health. *Antidepressant Treatment and Suicidality: Methodological and Biostatistical Solutions*. #R01 MH8012201, \$2,640,000 (PI).
- 2009-2011 National Institute of Mental Health. *Mental Health Computerized Adaptive Testing - Supplement*, Grant #RO1 MH66302-04, \$1,773,298 (PI).

OTHER ACTIVITIES:

Reviewer for *Journal of American Statistical Assoc.*, *Biometrics*, *Psychometrika*, *Technometrics*, *Archives of General Psychiatry*, *Journal of Psychiatric Research*, *American Journal of Psychiatry*, *Science*, *Psychiatry Research*, *Sociological Methodology*, *Psychological Bulletin*, *Biological Psychiatry*, *Environmental Science and Technology*, *Statistics in Medicine*, and *Ground Water*

Grant reviewer for National Institute of Mental Health

Editorial Board of *Health Services and Outcomes Research*

PEER REVIEWED PUBLICATIONS:

1. Stein J.H., Gibbons R.D., & Meldman M.J. Lateral eye movement, handedness and sex in learning disability children. *Cortex*, 16, 223-229, 1980.
2. Gibbons R.D. Clark, D., & Davis J.M. A statistical model for the classification of imipramine response in depressed inpatients. *Psychopharmacology*, 78, 185-189, 1982.
3. Ostrow D.G., Halaris A., DeMet E., Gibbons R.D. & Davis J.M. Ion transport and adrenergic function in major affective disorders. *Biological Psychiatry*, 17, 971-980, 1982.
4. Fawcett J., Clark D.C., Scheftner W.A., & Gibbons R.D. Assessing anhedonia in psychiatric patients: the pleasure scale. *Archives of General Psychiatry*, 40, 79-84, 1983.
5. Dorus E., Cox N.J., Gibbons R.D., Shaughnessy R., Pandey G.N. & Cloninger R.C. Lithium ion transport and affective disorders within families of bipolar patients. *Archives of General Psychiatry*, 40, 945-552, 1983.
6. Ostrow D.G. Okonek A., Gibbons R.D., Cooper R., & Davis J.M. Biological markers and antidepressant response. *Journal of Clinical Psychiatry*, 44, 10-13, 1983.
7. Cavanaugh S., Clark D.C., & Gibbons R.D. Diagnosing depression in the hospitalized medically ill. *Psychosomatics*, 24, 809-815, 1983.
8. Nasr S.J., Pandey G.N., Altman E.G., Gibbons R.D., Gaviria M.F., & Davis J.M. Symptom profile of patients with positive DST. *Biological Psychiatry*, 18, 1069-1073, 1983.
9. Nasr S.J. & Gibbons R.D. Depressive symptoms associated with dexamethasone resistance. *Biological Psychiatry*, 10, 183-188, 1983.
10. Clark D.C., Cavanaugh S.A., & Gibbons R.D. The core symptoms of depression in medical and psychiatric patients. *Journal of Nervous and Mental Disease*, 171, 705-713, 1983.

11. Levy D.L., Yasillo N.J., Dorus E., Shaughnessy R., Gibbons R.D., Peterson J., Janicak P.G., Gaviria M., & Davis J.M. Relatives of unipolar and bipolar patients have normal pursuit. *Psychiatry Research*, 10, 285-293, 1983.
12. Fugmann R.A., Aranyi C., Barbara P.W., Bradof J.N., Gibbons R.D., Fenters J.D. The effect of diethylstilbestral as measured by host resistance and tumor susceptibility assays in mice. *Journal of Toxicology and Environmental Health*, 11, 827-841, 1983.
13. Gibbons R.D., Gudas C., Gibbons S.W. A study of the relationship between flexibility of closure and surgical skill. *Journal of the American Podiatry Association*, 73, 12-16, 1983.
14. Gibbons R.D., Dorus E., Ostrow D.G., Pandey G.N., Davis J.M., Levy D.L. Mixture distributions in psychiatric research. *Biological Psychiatry*, 19, 483-509, 1984.
15. Killian G.A., Holzman P.S., Davis J.M., Gibbons R.D.. Effect of psychotropic medication on selected cognitive and perceptual measures. *Journal of Abnormal Psychology*, 93, 58-70, 1984.
16. Poznanski E.O., Grossman J.A., Buchsbaum Y., Banegas M., Freeman L., Gibbons R.D. Preliminary studies of the reliability of validity of the children's depression rating scale. *Journal of the American Academy of Child Psychiatry*, 23, 191-197, 1984.
17. Zeller E.A., Huprikar S.V., Gibbons R.D., Miller E.A. Influence of age, sex and osteogenesis imperfecta on count, protein content, and monoamine oxidase activity of human thrombocytes. *Clinica Chemica Acta*, 137, 123-129, 1984.
18. Maas J.M., Koslow S.H., Katz M.M., Bowden C.L., Gibbons R.D., Robbins E., and Davis, J.M. Pretreatment neurotransmitter metabolite levels and response to tricyclic antidepressant drugs. *American Journal of Psychiatry*, 141, 1159-1171, 1984.
19. Gibbons R.D., Davis J.M. The price of beer and the salaries, of priest: a note on the analysis and display of longitudinal psychiatric data. *Archives of General Psychiatry*, 41, 1183-1184, 1984.
20. Fawcett J.A., Clark D.C., Gibbons R.D., Aagesen C.A., Pisani V.D. Tilkin, J.M., Sellers D., Stutzman D. Preliminary report: evaluation of lithium therapy for alcoholism. *American Journal of Psychiatry*, 45, 494-498, 1984.
21. Gibbons R.D., Clark D.C., Cavanaugh S.V. Application of modern psychometric theory in psychiatric research. *Journal of Psychiatric Research*, 19, 43-55, 1985.
22. Janicak P.G., Davis J.M., Gibbons R.D., Ericksen S., Chang S., Gallagher P. Efficacy of ECT: A meta analysis. *American Journal of Psychiatry*, 142, 297-302, 1985.
23. Levy D.L., Dorus E., Shaughnessy R., Yasillo N.J., Pandey G.N., Janicak P.G., Gibbons R.D., Gaviria M., Davis J.M. Pharmacologic evidence for specificity of pursuit dysfunction to schizophrenia: lithium carbonate associated with abnormal pursuit. *Archives of General Psychiatry*, 42, 335-341, 1985.
24. Thomas P., Fugman R., Aranyi C., Barbera P., Gibbons R.D., Fenters J. The effect of dimethylnitrosamine on host resistance and immunity. *Toxicology and Applied Pharmacology*, 77, 219-229, 1985.
25. Thomas P., Ratajczak H., Aranyi C., Gibbons R.D., Fenters J. Evaluation of host resistance and immune function in cadmium-exposed mice. *Toxicology and Applied Pharmacology*, 80, 446-456, 1985.
26. Gordon S.M., Szidon J.P., Krotoszynski B.K., Gibbons R.D., O'Neill H.J. Volatile organic compounds in the expired air of subjects with lung cancer. *Clinical Chemistry*, 31, 1278-1282, 1985.

27. Janicak P.G., Mask J., Trimakas K.A., Gibbons R.D. ECT: an assessment of mental health professionals' knowledge and attitudes. *Journal of Clinical Psychiatry*, 46, 262-266, 1985.
28. Clark D.C., Gibbons R.D., Fawcett J., Aagesen C.A., Sellars D. Unbiased criteria for severity of depression in alcoholic inpatients. *Journal of Nervous and Mental Disease*, 73, 482-487, 1985.
29. Goldman M., Dratman M.B. Crutchfield F.L., Jennings A.S., Marvniak J.A., Gibbons R.D. Intrathecal triiodothyronine administration causes greater heart rate stimulation in hypothyroid rats than intravenously-delivered hormone: evidence for a central nervous system site of thyroid action. *Journal of Clinical Investigation*, 76, 1622-1625, 1985.
30. Gibbons R.D., Lewine R.R.J., Davis J.M., Schooler N.R., Cole J.O. An empirical test of a Kraepelinian versus a Bleulerian view of negative symptoms. *Schizophrenia Bulletin*, 11, 390-395, 1985.
31. Gibbons R.D., Fielder-Weiss V.C., West D.P., Lapin G. Quantification of scalp hair - a computer aided methodology. *Journal of Investigative Dermatology*, 86, 78-82, 1986.
32. Gibbons R.D., Baker R.J., Skinner D.B. Field articulation testing: a predictor of technical skills in surgical residents. *Journal of Surgical Research*, 41, 53-57, 1986.
33. Gibbons R.D., Maas J.W., Davis J.M., Swann A., Redmond E., Casper R., Hanin I., Bowden C., Kocsis J., Stokes P. Path analysis of psychopharmacological data: catecholamine breakdown in man. *Psychiatry Research*, 18, 89-105, 1986.
34. Gibbons R.D., Davis J.M. Consistent evidence for a biological subtype of depression characterized by low CSF monoamine levels. *Acta Psychiatrica Scandinavica*, 74, 8-12, 1986.
35. Gibbons R.D. Computer-aided quantification of scalp hair. *Dermatologic Clinics*, 4, 627-640, 1986.
36. Gibbons R.D., Bock RD. Trend in Correlated Proportions. *Psychometrika*, 52, 113-124, 1987.
37. Clark D.C., Gibbons R.D., Daugherty S.R., Silverman C.M. Model for quantifying the drug involvement of medical students. *International Journal of Addictions*, 22, 249-271, 1987.
38. Dorus W., Kennedy J., Gibbons R.D., Ravi S.D. Symptoms and diagnosis of depression in alcoholics. *Alcoholism: Clinical and Experimental Research*, 11, 150-154, 1987.
39. Fawcett J.A., Scheftner W., Clark D.C., Hedeker D.R., Gibbons R.D., Coryell W. Clinical predictors of suicide in patients with major affective disorders: A controlled prospective study. *American Journal of Psychiatry*, 144, 35-40, 1987.
40. Gibbons R.D. Statistical prediction intervals for the evaluation of ground-water quality. *Ground Water*, 25, 455-465, 1987.
41. Gibbons R.D. Statistical models for the analysis of volatile organic compounds in waste disposal sites. *Ground Water*, 25, 572-580, 1987.
42. Gibbons R.D., Hedeker D., Davis J.M. Regression toward the mean: More on the price of beer and the salaries of priests. *Psychoneuroendocrinology*, 12, 185-192, 1987.
43. Gibbons R.D., Janicak P.G., Davis J.M. A response to Overall and Rhoades regarding their comment on the efficacy of unilateral vs bilateral ECT. *Convulsive Therapy* 3, 228-237, 1987.
44. Mass J.W., Koslow S.H., Davis, J.M., Katz M., Frazer A., Bowden C.L., Berman N., Gibbons R.D., Stokes P., Landis H. Catecholamine metabolism and disposition in healthy and depressed subjects. *Archives of General Psychiatry*, 44, 337-344, 1987.

45. Fawcett J., Clark D.C., Aagesan C.A., Pisani V.D., Tilkin J.M., Sellers D., McGuire M., Gibbons R.D. A double blind placebo controlled trial of lithium therapy for alcoholism. *Archives of General Psychiatry*, 44, 248-256, 1987.
46. Pandey G.N., Fawcett J.A., Gibbons R.D., Clark D.C., Davis J.M. Platelet monoamine oxidase in alcoholism. *Biological Psychiatry*, 24, 15-24, 1988.
47. Bock R.D., Gibbons R.D., Muraki E. Full information factor analysis. *Applied Psychological Measurement*, 12, 261-280, 1988.
48. Davis J.M., Koslow S.H., Gibbons R.D., Maas J.W., Bowden C.L., Casper R., Hanin I., Javaid J.I., Chang S.S., Stokes P.E. Cerebrospinal fluid and urinary biogenic amines and metabolites in depressed and healthy controls: a multivariate analysis. *Archives of General Psychiatry*, 45, 705-717, 1988.
49. Clark D.C., & Gibbons R.D. Does one nonlethal suicide attempt increase the risk for a subsequent nonlethal attempt? *Medical Care*, 25, 87-88, 1987.
50. Kraemer H.C., Pruyt J.P., Gibbons R.D., Greenhouse J.B., Grochocinski V.J., Waternaux C., & Kupfer D.J. Methodology in psychiatric research. *Archives of General Psychiatry*, 44, 1100-1106, 1987.
51. O'Neill H.J., Gordon S.M., O'Neill M.H., Gibbons R.D., & Szidon J.P. A computerized classification technique for screening for the presence of breath biomarkers in lung cancer. *Clinical Chemistry*, 33, 1613-1618, 1988.
52. Aranyi C., Henry M.C., Vana S.C., Gibbons R.D., & Iverson W.O. Effects of multiple intermittent inhalation exposures to red phosphorus/butyl rubber obscuring smokes in Sprague-Dawley rats. *Inhalation Toxicology*, 1, 65-78, 1988.
53. Gibbons R.D., Hedeker D.R., Waternaux C., & Davis J.M. Random regression models: A comprehensive approach to the analysis of longitudinal psychiatric data. *Psychopharmacological Bulletin*, 24, 438-443, 1988.
54. Talsma D.M., Leach C.L., Hatoum N.S., Gibbons R.D., Roger J.C., & Garvin P.J. Reducing the number of rabbits in the Draize eye irritancy test: A statistical analysis of 155 studies conducted over 6 years. *Fundamental and Applied Toxicology*, 10, 146-153, 1988.
55. Henthorn T.K., Benitez J., Avram M.J., Martinez C., Llerena A., Cobaleda J., Krejcie T.C., & Gibbons R.D. Assessment of the debrisoquin and dextromethorphan phenotyping tests by Gaussian mixture distribution analysis. *Clinical Pharmacology and Therapeutics*, 45, 328-333, 1989.
56. Hedeker D.R., Gibbons R.D., Waternaux C., & Davis J.M. Investigating drug plasma levels and clinical response using random regression models. *Psychopharmacological Bulletin*, 25, 227-231, 1989.
57. Clark D.C., Gibbons R.D., Fawcett, J. & Sheftner W.A. What is the mechanism by which suicide attempts predispose to later suicide attempts? A mathematical model. *Journal of Abnormal Psychology*, 98, 1989.
58. Gibbons R.D. A comment on "Statistical Methods for Evaluating Ground-water Monitoring from Hazardous Waste Facilities" - Final Rule *Ground Water*, 27, 252-254, 1989.
59. Gibbons R.D., Hedeker D.R. & Davis J.M. A comment on the selection of "healthy controls" for psychiatric experiments. *Archives of General Psychiatry*, 47, 785-786, 1990.
60. Gibbons R.D. A general statistical procedure for Ground-Water Detection Monitoring at waste disposal facilities. *Ground Water*, 28, 235-243, 1990.
61. Gibbons R.D. Estimating the precision of ground-water elevation data. *Ground Water*, 28, 357-360, 1990.

62. Gibbons R.D., Clark D.C & Fawcett J. A statistical method for evaluating suicide clusters and implementing cluster surveillance. *American Journal of Epidemiology*, 132, S183-S191, 1990.
63. Fawcett J., Aagesen C.A., Tilken J.M., McGuire M., Clark D.C., Pisani V.D., Sellers D., & Gibbons R.D. Lithium carbonate prophylaxis of alcoholism: Its time has come: in reply. *Archives of General Psychiatry*, 46, 290-291, 1990.
64. Hatoum N.S., Leach C.L., Talsma D.M., Gibbons R.D., & Garvin P.J. A statistical Basis for using fewer rabbits in dermal irritation testing. *Journal of the American College of Toxicology*, 9, 49-60, 1990.
65. Fawcett J., Sheftner W.A., Fogg L., Clark D.C., Young M.A., Hedeker D.R., & Gibbons R.D. Time-related predictors of suicide in major affective disorder. *American Journal of Psychiatry*, 147, 1189-1194, 1990.
66. Gibbons R.D. & Baker J. The properties of various statistical prediction limits. *Journal of Environmental Science and Health*, A26-4, 535-553, 1991.
67. Hedeker D.R., Gibbons R.D., & Davis J.M. Random regression models for multicenter clinical trials data. *Psychopharmacological Bulletin*, 27-1, 73-77, 1991.
68. Gibbons R.D. Statistical tolerance limits for ground-water monitoring. *Ground Water*, 29, 563-570, 1991.
69. Gibbons R.D. Statistical tolerance limits for ground-water monitoring. *Water Resources Journal*, 171, 21-28, 1991. Reprinted by the United Nations Economic and Social Commission for Asia and the Pacific.
70. Gibbons R.D. Some additional nonparametric prediction limits for ground-water monitoring at waste disposal facilities. *Ground Water*, 29, 729-736, 1991.
71. Gibbons R.D., Jarke F.H., & Stoub K.P. Detection Limits: for linear calibration curves with increasing variance and multiple future detection decisions. *Waste Testing and Quality Assurance*, 3, ASTM STP 1075, 377-390, 1991.
72. Daniel D.G., Goldberg T.E., Gibbons R.D. & Weinberger D.R. Lack of a bimodal distribution of ventricular size in schizophrenia: A Gaussian mixture analysis of 1056 cases and controls. *Biological Psychiatry*, 30, 887-903, 1991.
73. Gibbons R.D., Grams N.E., Jarke F.H., & Stoub K.P. Practical quantitation limits. *Chemometrics and Intelligent Laboratory Systems*, 12, 225-235, 1992.
74. Hendrix M.S., Haviland M.G., Gibbons R.D., & Clark D.C. An application of item-response theory to alexithymia assessment among abstinent alcoholics. *Journal of Personality Assessment*, 58, 506-515, 1992.
75. Gibbons R.D., & Hedeker D.R. Full-information item bi-factor analysis. *Psychometrika*, 57, 423-436, 1992.
76. Charles S.C., Gibbons R.D., Frisch P.R., Pyskoty C.E., Hedeker D.R., & Singha N.K. Predicting risk for medical malpractice claims utilizing quality of care characteristics. *Western Journal of Medicine*, 157, 433-439, 1992.
77. Gibbons R.D., Clark D.C & Fawcett J. Response to Bohning, Lindsay and Schlattman regarding statistical methodology for suicide cluster analysis. *American Journal of Epidemiology*, 135, 1312-1314, 1992.
78. Davis J.M., Janicak P.G, Wang Z.G. Gibbons R.D. & Sharma R.P. The efficacy of psychotropic drugs: Implications for power analysis. *Psychopharmacology Bulletin*, 28, 151-155, 1992.
79. Tanner J.M., Gibbons R.D. & Bock R.D. An image analysis system for TW skeletal maturity. *Hormone Research*, 32, 11, 1992.
80. Clark D.C., Gibbons R.D., Haviland M.G., & Hendryx M.S. Assessing the severity of depressive states in recently-detoxified alcoholics. *J. of Studies on Alcohol*, 54, 107-114, 1993.

81. Appleby L., Desai P.N., Luchins D.J., Gibbons R.D., & Hedeker D.R. Length of stay and recidivism in schizophrenia: A study of public psychiatric hospital patients. *Am. J. of Psychiatry*, 150, 72-76, 1993.
82. Gibbons R.D., Hedeker D.R., Elkin I., Waternaux C., Kraemer H.C., Greenhouse J.B., Shea M.T., Imber S.D., Sotsky S.M., & Watkins J.T. Some conceptual and statistical issues in analysis of longitudinal psychiatric data. *Archives of General Psychiatry*, 50, 739-750, 1993.
83. Gibbons R.D., Hedeker D.R. & Davis J.M. Estimation of effect size from a series of experiments involving paired comparisons. *Journal of Educational Statistics*, 18, 271-279, 1993.
84. Miller N.S., Szcuczki D. & Gibbons R.D. Family history in comorbidity and alcohol dependence in cocaine dependence. *Alcohol Treatment Quarterly*, 10, 77-94, 1993.
85. Gibbons R.D., Clark D.C., & Kupfer D.J. Exactly what does the Hamilton Depression Rating Scale measure? *Journal of Psychiatric Research*, 27, 259-273, 1993.
86. Gibbons R.D., and Hedeker D.R. Application of random-effects probit regression models. *Journal of Clinical and Consulting Psychology*, 62, 285-296, 1994.
87. Hedeker D.R., Gibbons R.D., & Flay B.R. Random regression models for clustered data: with an example from smoking prevention research. *Journal of Clinical and Consulting Psychology*, 62, 757-765, 1994.
88. Gibbons R.D., Hedeker D.R. Charles S.C., & Frisch P. A random-effects probit model for predicting medical malpractice claims. *Journal of the American Statistical Association*, 89, 760-767, 1994.
89. Tanner J.M., & Gibbons R.D. A computerized image analysis system for estimating Tanner-Whitehouse 2 bone age. *Hormone Research*, 42, 282-287, 1994.
90. Hedeker D.R., & Gibbons R.D. A random-effects ordinal regression model for multilevel analysis. *Biometrics*, 50, 933-944, 1994.
91. Tanner J.M., & Gibbons R.D. Automatic bone age measurement using computerized image analysis. *J. Paed Endocr*, 7, 141-145, 1994.
92. Gibbons R.D. Some conceptual and statistical issues in detection of low level environmental pollutants. *Environmental and Ecological Statistics*, 2, 125-162, 1995.
93. Gibbons R.D. Rejoinder: Some conceptual and statistical issues in detection of low level environmental pollutants. *Environmental and Ecological Statistics*, 2, 163-167, 1995.
94. Frisch P., Charles S.C., Gibbons R.D. & Hedeker D. Role of previous claims and specialty on the effectiveness of risk management education for office based physicians. *The Western Journal of Medicine*, 163, 346-350, 1995.
95. Elkin I., Gibbons R.D., Shea M.T., Sotsky S.M., Watkins J.T., Pilkonis P.A. & Hedeker D. Initial severity and differential outcome in the NIMH treatment of depression collaborative research program. *Journal of Clinical and Consulting Psychology*, 63, 841-847, 1995.
96. Gibbons R.D. The problem with U.S. EPA's method detection limit. *American Environmental Laboratory*, 8, 4-10, 1996.
97. Elkin I., Gibbons R.D., Shea M.T., & Shaw B.F. Science is not a trial (but it can sometimes be a tribulation). *Journal of Clinical and Consulting Psychology*, 64, 92-103, 1996.
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