

## **Madhuri S. Mulekar Professor of Statistics**

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### Statistical Consulting:

1. Using Obstetrical data to determine neonatal outcome (OB/GYN)
2. Using Bootstrap techniques for Finance data (Finance)
3. Scoring system for prediction of DVT by Duplex (Vascular Surgery)
4. Is there any association between the first impression and possibility of getting a job? (Human Resource Management)
5. Eating habits of turtles (Biology)
6. Settlement of Oyster Larvae (Marine Sciences)
7. Neonatal outcome at a specific gestational age (OB/GYN)
8. Testing of computer intelligence in music style recognition (Computer Information Sciences)
9. Survival of crab larvae in contaminated water in the presence or absence of UV light (Marine Sciences)
10. Survey of community shopping habits (Chamber of Commerce, Atmore, AL)
11. Comparison of repair strategies used by Afro-American and Anglo-American children with low and mid SES scores (Speech and Hearing)
12. Behavior of crestation of shrimp and their predator red snapper (Marine Sciences)
13. Measuring effectiveness of one way valve system in metered dose inhalers (MDI) in preventing bacterial infections and reducing cost of administering medicine (Cardio-respiratory Care Unit)
14. Measuring effect of attending study-skills seminar on grades: first term versus second term (Institutional research)
15. Simple Random Sampling Vs Systematic Sampling, (College of Education).
16. Synthesis and Analysis of Polyamino acids for Corrosion Inhibition and Anti-scalant Properties (Biology).
17. Ice Crystal Growth for Potential Antifreeze Agents, (Chemistry).
18. Attitude and Behavior of Nurses towards Cost Effectiveness (Nursing).
19. Breathing Patterns for Premature Babies (College of Allied Health Professions).
20. Sample Size Determination for a Survey of Rare Disease Occurrences (Biomedical Sciences).
21. Comparison of Three Treatments for Weight Loss (Psychology).
22. Comparison of Amount of Oxygen Used in Two Techniques (Anesthesiology).
23. Assessment of the Role of Energy in Depression (Psychology).
24. Statistical Analysis of Clustered Temporal Networks (Computer Information Sciences).
25. Research Methods for Political Science (Criminal Justice).
26. The Development of Assessment Devices for Martial Arts Instructors (Psychology).
27. Comparison of Rate and Scale Procedures for Studying Auditory Perceptual Grouping (Speech Pathology & Audiology).

28. The Effects of Temporal Envelope Correlation and Auditory Fusion (Speech Pathology & Audiology).
29. Experimentwise Error Rates for Testing Correlation Coefficients, (Psychology).
30. Effect of Outliers on Geometric Mean (Finance).
31. Classification of Data (Behavioral Sciences).
32. Daily Hassle and Personal Relationships (Computer Information Sciences).
33. Risk of Atrial Thombosis in Subjects with Atrial Flutter (Cardiology).
34. Solution for Optimal Orientation of 3-D Multidimensional Data (Psychology).
35. An Assessment of Southeastern Energy Use as a Function of Climate (Geology & Geography).
36. Geological & Ziological Data Gathering (Palythoa caribaeorum) in the Florida Keys Reefs (Marine Sciences).
37. The Current Status of Accountant Liability (Accounting).
38. Gender Differences in Eyewitness Testimony (Psychology).
39. Project Involving Lab Valves over Time (Cardio-respiratory Therapy).
40. Is counseling helpful in educating SCD patients and their relatives? (Mobile Chapter of Sickle Cell Association & USA-CSCC), 2002-03.
41. Assessing the effect of educational program on the school children's general knowledge about the Sickle cell disease. (Mobile Chapter of Sickle Cell Association & USA-CSCC), 2002-03
42. Designing a study to assess usefulness of supplemental instruction to students (Institutional Research), 2002-03.
43. Post patrum endometritis: preoperative and postoperative variables (OB/GYN), 2002-03.
44. Comparison different characteristics measured using standard and modified testing procedures (Cardiorespiratory), 2002-03.
45. Effect of VOC episodes on the quality of life of SCD patients (Sickle Cell Center), 2002-03.
46. Analyzing effects of study-skill seminars on grades in History of Civilization I (History department and the Institutional research) 2002-03.
47. Analysis of survey questionnaires data (USA-CSCC and SCAA Mobile Chapter), 2003.
48. Can RCP levels be used accurately to predict breast cancer? (Pathology), 2003.
49. As compared to the standard procedure, does modified TVT placement result in lower incidence of voiding dysfunction without compromising efficiency? (Obstetrics), 2002-03.
50. Comparison of mortality from accidents on roads in rural and urban Alabama, (Trauma Center, USA), 2002-03.
51. Designing a longitudinal study to determine the age at which *Toxicars canis* infection occurs in patients that develop asthma later in life. (Cell Biology), 2002-03.
52. Is counseling helpful in educating SCD patients and their relatives? (Mobile Chapter of Sickle Cell Association & USA-CSCC), 2003-04.
53. Mortality rates in rural and urban Alabama: Hospital-EMS matched data (Trauma Center) 2003.

54. Mortality rates in rural and urban Alabama: EMS linked to hospital data (Trauma Center) 2003.
55. Comparison of EMS data from rural and urban Alabama (Trauma Center) 2003.
56. Mortality rates in rural and urban Alabama: CARE data (Trauma Center) 2003.
57. Differences in transportation times in rural and urban Alabama: SouthFlight data (Trauma Center) 2003.
58. Comparison of EMS data from rural and urban Alabama, (Trauma Center), 2004.
59. Mortality rates in Rural and Urban Alabama: EMS-CARE matched data, Funded by the Department of Transportation (Trauma Center) 2003.
60. When do parents tell their children about their disease status? (Sickle Cell Association of America-Mobile Chapter) 2003.
61. Can re-suspension of sediments increase the dissolved nutrients in seawater? (Marine Biology) 2003.
62. Comparison of mortality rates in Rural and Urban Alabama: EMS-CARE data, Funded by the Department of Transportation (Trauma Center) 2004.
63. Logistic Models to predict likelihood of mortality (Trauma Center) 2004.
64. Analysis of CARE-EMS data by emergency medical agency responding to the call (Trauma Center) 2004.
65. Enhanced preservation of vaginal length and vault support: A byproduct of anterior compartment repair using a synthetic mesh graft (Gynecology, Providence Hospital) 2004.
66. Uterine Leiomyomas and their effect on in vitro fertilization outcome (Ob/Gyn) 2004.
67. Selecting best position of the metered-dose inhaler and spacer in the ventricular circuit (Cardiorespiratory), 2004-05.
68. Comparison of survival rates of cervical cancer patients at USA-hospitals (Gynecology) 2005.
69. Cultural differences in postpartum depression: it is not just black and white (Ob/Gyn) 2005.
70. Coasting for prevention of OHSS decreases oocyte quality and pregnancy rate (Ob/Gyn) 2005.
71. Coasting Decreases Ovarian Hyperstimulation Syndrome in Patients at Risk. Is the Quality of Oocytes, Embryos and Pregnancy Rate the Price to Pay? (OB/GYN), 2005.
72. Evaluation of the BSI-18 for measurement of psychological distress in pregnant women (Ob//Gyn), 2005.
73. The severity of psychological distress correlates with the intensity of anxiety and depression symptoms during pregnancy (Ob/Gyn), 2005.
74. Comparison of IVF outcome for patients with endometriosis and those with other infertility factors (Ob/Gyn), 2005.
75. Comparison of rural and urban mortality rates for 2001 and 2002 (Trauma Center) 2005.
76. Comparison of rural and urban mortality rates for 2001 and 2002 – Part II (Trauma Center), 2005.
77. Survey of Gypsum mining in Mammoth Cave, KY (Archeology), 2006.

78. On scene intravenous line insertion adversely impacts pre-hospital time in rural vehicular trauma (Trauma Center), 2006
79. Does increased EMS prehospital time affect patient mortality in rural motor vehicle crashes? A statewide analysis (Trauma Center), 2006.
80. Uterine Leiomyomas and Their Effect on In Vitro Fertilization Outcome: A Controlled Retrospective Study (OB/GYN), 2006.