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EDUCATION

Fellowship in Anesthesia for Vascular Surgery	1993	University of Chicago, USA
Post-doctoral fellowship in Cardiothoracic and Neurosurgical Anesthesia	1988	Sri Chitra Tirunal Institute of Medical Sciences and Technology, Trivandrum, India
MD (Anesthesiology)	1987	All India Institute of Medical Sciences, New Delhi, India *
MBBS	1983	Osmania University, Hyderabad, India

*Premier medical educational institute in the country

EMPLOYMENT

Office/Institution	Position	From	To	Nature of work
Nizam's Institute of Medical Sciences, Hyderabad (NIMS)	Professor	11 Oct 2012	13 Nov 2014	Clinical, teaching and research in Anesthesiology
Medical Council of India, New Delhi	Consultant (Examination)	8 Jun 2011	10 Oct 2012	Initiated work for conduct of National Eligibility-cum-Entrance Test for admission to medical courses in India
NIMS	Professor	28 Oct 2003	7 Jun 2011	Clinical, teaching and research in Anesthesiology
NIMS	Additional Professor	1 Aug 1998	27 Oct 2003	Same as above
NIMS	Associate Professor	25 Jul 1994	31 Jul 1998	Same as above
NIMS	Assistant Professor	1 Jan 1992	24 Jul 1994	Same as above

NIMS	Lecturer	26 Jun 1989	31 Dec 1991	Same as above
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During a period between 1992 and 1993, went to University of Chicago, USA for fellowship in vascular anesthesia

Administrative Experience (MCQ-based examinations)

From	To	Substantive position	Additional responsibilities
12 March 2003	13 February 2011	Professor	Sub-Dean: handled multiple choice questions (MCQ)-based entrance examinations for admission to medical residency and fellowship programs. Also handled examinations for admission to nursing and physiotherapy courses
3 April 1998	11 March 2003	Additional Professor	Handled MCQ-based entrance examinations for admission to medical residency and fellowship programs
6 May 1997	2 April 1998	Associate Professor	Same as above

During the one and half decades (15 years) of experience in MCQ-based medical examinations, handled more than 15,000 high quality (image-based, clinical solving) MCQs in 19 different specialities. Extensive experience in item response analysis for evaluating quality of questions (difficulty index and discriminatory index).

Additional information	<ol style="list-style-type: none"> Independently handled several software projects for e-governance to enhance accountability and transparency in examinations and tender process.
Publications	<ol style="list-style-type: none"> Publications as first author in international peer reviewed journals. Citation index of publications is 12 as of May 2014. Presented scientific papers in international conferences Contributed chapters in Anesthesiology and Cardiology in renowned international text books Peer Reviewer Analgesia n Economics, Policy and Education section of Anesthesia. & Analgesia. The journal is Standard International Journal in Anesthesiology with high impact factor)

Summary of credentials in clinical, academic, administrative , membership, and computing skills

Clinical

1. Clinical Service (Anesthesiology) in NIMS for more than 25 years.
2. Involved in anesthesia for different surgical procedures including neurosurgical, cardiothoracic surgery and organ transplantation.

Teaching

1. Teaching in Anesthesiology for more than 25

Academic and Research

1. Visiting faculty to University of Chicago, USA, 1994 to 2000. one month each year for the purpose.
2. Associated with Michael F. Roizen of Cleveland Clinic Foundation, Cleveland, Ohio, “RealAge” fame, for more than 2 decades in research and academic areas.
3. Several scientific publications in peer reviewed international journals with good impact factor . The citation index of my publications as of May, 2014 is 12
4. Contributed a chapter as first author “Anesthesia for Vascular Surgery. In: Clinical Anesthesia, 6th Edit (2009): Editor: Barash PG et al, Published by JB Lippincott Company”. *This is the standard international text book in anesthesia.*
5. Contributed a chapter as co-author in “Perioperative anesthetic considerations in noncardiac surgery for those at high risk of cardiovascular disease. In: Text Book of Cardiovascular Medicine, 3rd edition (2007): Editor: Eric Topol et al, Published by Lippincott Williams and Wilkins. .
6. My original paper on “Comparing methods of clinical measurement: reporting standards for bland and altman analysis. Anesthesia Analgesia 90:593-602, 2000” was appreciated by Dr. Martin Bland and Dr. Douglas Altman, renowned statisticians of United Kingdom. As of May 2014, there are 38 Citations in wide variety of journals for the article

Administration

1. As Sub-Dean of NIMS, Further enhanced the quality of questions making medical admission (residency and fellowship) examinations best in the country
2. As chairman of Rate Contract (RC) -2009-2010 for drugs and fluids, introduced web based e-governance for transparency and accountability
3. Experience at Medical Council of India as consultant (Examinations): June 2011 to October 2012
 - a) Initiated work related to National Eligibility cum Entrance Test (NEET) for admission to medical residency courses in India

Memberships

1. Appointed by the Medical Council of India (MCI) as an assessor for accreditation of different medical institutions for courses in Anesthesiology in India
2. Member of peer review team of National Assessment and Accreditation Center (NACC), Bangalore for accreditation of Universities in India

Computing Skills

Application software	<ul style="list-style-type: none">• Microsoft Office• Minitab statistical software:• Data TreeAge software for decision cost-effectiveness and Monte Carlo probabilistic sensitivity analysis• R statistical package (Comprehensive R Archive Network (CRAN))
Database management	<ul style="list-style-type: none">• MS access• Oracle database• MySQL
Software development	<ul style="list-style-type: none">• Developed several software applications based on Visual basic 6 and visual basic for access (VBA).
Website development	<ul style="list-style-type: none">• Active server page (ASP & ASP.NET): Developed several front-end solutions for dynamic web-site applications based on ASP/ASP.NET (C# language)

Scientific Publications

Peer Reviewed Book chapters in American Text Books

- 2009 Srinivas Mantha, O. Andrew Ochrch, Michael F Roizen, Jonathan Katz, David A. Lubrasky, and John E Ellis. Anesthesia for Vascular Surgery. In: Clinical Anesthesia, 6th Edit (2009): Editor: Barash PG et al, Published by JB Lippincott Company:
- 2006 John E Ellis, Michael F Roizen, Srinivas Mantha, Gretchen Schwartze, James Mckinsey, David Lubrasky, and Charbel Kenaan . Anesthesia for Vascular Surgery. In: Clinical Anesthesia, 5t Edit (2006): Editor: Barash PG et al, Published by JB
- 2007 Michael F Roizen, John E Ellis, Srinivas Mantha, Joseph Foss. Perioperative anesthetic considerations in noncardiac surgery for those at high risk of cardiovascular disease. In: Text Book of Cardiovascular Medicine, 3rd edition (2007): Editor: Eric Topol et al, Published by Lippincott Williams and Wilkins
- 2001 John E Ellis, Michael F Roizen, Srinivas Mantha, Tzeng G, Tina Desai. Anesthesia for Vascular Surgery. In: Clinical Anesthesia, 4t Edit (2001): Editor: Barash PG et al, Published by JB Lippincott Company
- 2000 Mantha S, Fleisher LA, Roizen MF, Ellis JE, Foss JF: Cost-effectiveness and benefit of preoperative work-up and preparation for vascular surgery, Cardiac, Vascular, and Thoracic Anesthesia. Edited by Youngberg JA. New York, Churchill Livingstone, 2000,
- 1996 John E Ellis, Michael F Roizen, Srinivas Mantha, Hans Wilkis. Anesthesia for Vascular Surgery. In: Clinical Anesthesia, 3rd Edition (1996), pp 871-910. Edited: by Barash PG et al, Published by JB Lippincott Company

Peer Reviewed International Journals as First author

- 2009 Mantha S, Roizen MF, Foss J, Ellis JE. Cardiac Troponin Surveillance After Abdominal Aortic Surgery. A reply: Anesthesia Analgesia 2009;108:1047
- 2007 Mantha S, Foss J, Ellis JE, Roizen MF. Intense cardiac troponin surveillance for long-term benefits is cost-effective in patients undergoing open abdominal aortic surgery: A decision analysis model. Anesthesia Analgesia:2007;105:1346-56.
- 2005 S. Mantha, Roizen MF, Madduri J, Rajender Y, Shanti Naidu K, Gayatri K. Usefulness of routine preoperative testing: a propective single-observer study. Journal of Clinical Anesthesia; 2005;17: 51-57
- 2000 Mantha, S: Rational cardiac risk stratification before peripheral vascular surgery: Application of evidence-based medicine and Bayesian analysis. Seminars in Cardiothoracic and Vascular Anesthesia 4:198-212, 2000
- 2000 Mantha S, Roizen MF, Fleisher LA et al: Comparing methods of clinical measurement: reporting standards for bland and altman analysis. Anesthesia
- 1995 S. Mantha. Duplicate publications (letter) Journal of Cardiothoracic and Vascular Anesthesia 1995;9:349-50.
- 1994 S. Mantha, M.F.Roizen, J.Barnard, R.Thisted, J.E.Ellis, J.Foss. Relative effectiveness of four preoperative tests for predicting adverse cardiac events after vascular surgery:

A meta-analysis. *Anesthesia Analgesia* 1994;79:422-433

- 1993 S. Mantha, Thisted RA, Foss J, Ellis JE, Roizen MF. A proposal to use confidence intervals for visual analog scale data for pain measurement to determine clinical significance. *Anesthesia & Analgesia* 1993;77:1041-1047
- 1992 S. Mantha, S.M.Rao, B.S.Prakash, S.Mohandas, A.K.Singh. Glycine absorption and visually evoked potentials (A reply) *Anaesthesia* 1992;47:78
- 1991 S. Mantha, S.M.Rao, A.K.Singh, S.Mohandas, B.Surya Prakash Rao, N.Joshi. Visual evoked potentials and visual acuity after transurethral resection of the prostate. *Anaesthesia* 1991;46:491-493.
- 1990 S. Mantha, S.M.Rao. Noncardiogenic pulmonary edema after attempted suicide by hanging. *Anaesthesia* 1990;45:993-994.

Peer Reviewed International Journals as co-author

- 2010 Padmaja Durga, Barada Prasad Sahu, **Srinivas Mantha**, and Gopinath Ramachandran. Development and Validation of Predictors of Respiratory Insufficiency and Mortality Scores: Simple Bedside Additive Scores for Prediction of Ventilation and In-Hospital Mortality in Acute Cervical Spine Injury. *Anesthesia Analgesia* 2010;110:134-40
- 2007 Mohler ER, **Mantha S**, Miller AB, Poldermans, Cropp AB, Aubin LB, Billing CB, Fleisher LA. Should biomarkers be routinely measured after vascular surgery. *Vascular Medicine*: 2007;12:175-181
- 1998 Fleisher LA, **Mantha S**: Technology assessment and determination of cost-effectiveness. *Problems in Anesthesia* 10:293-303, 1998
- 1998 Fleisher LA, **Mantha S**, Roizen MF: Medical technology assessment: an overview. *Anesthesia Analgesia* 87:1271-1282, 1998
- 1994 Michael F. Roizen, Joseph F. Foss, **Srinivas Mantha**. Potential cost of screening surgeons for HIV. *Journal of American Medical Association* 1994;272:434.
- 1994 John E. Ellis, Greet Drijvers, Pedlow S, Laff SP, Sorrentino, Foss JF, Shah M, Busse JR, **Srinivas Mantha**, McKinsey J, Osinski J, Ronald Thisted, Michael F. Roizen et al. Premedication with oral and transdermal clonidine provides safe and efficacious postoperative sympatholysis.

PRESENTATION IN PROFESSIONAL CONFERENCES

- 2014 S. Mantha. R algorithm for Bayesian power model of continual reassessment method to determine ED95. Presented at 88th International Anesthesia Research Society (IARS) annual meeting held in May 2014 at San Montreal, Canada
- 2013 S. Mantha . Validation of bootstrap estimation of combined anesthesia and surgical time for cardiac surgical procedures. Presented at 87th International Anesthesia Research Society (IARS) annual meeting held in May 2013 at San Diego, USA
- 2011 Srinivas Mantha, Gopinath Ramachandran, Vishakha Prasad. Among nutrition criteria, admission day hypoalbuminemia predicts ICU mortality. Presented at 85th International Anesthesia Research Society (IARS) annual meeting held in May 2011 at Vancouver, Canada.

- 2011 S. Mantha Cervical epidural block for emergency hand surgery in a patient with untreated severe hypothyroidism. Challenging case report. Presented at 85th International Anesthesia Research Society (IARS) annual meeting held in May 2011 at Vancouver,
- 2008 Mantha S, Roizen M, Foss J. A Minitab Macro for nonparametric post hoc pair-wise comparisons after Friedman's test and Kruskal-Wallis test. Abstract presented at 82nd Annual Meeting of International Anesthesia Research Society (IARS) on March 29- Apr 1 2008, at San Francisco, CA, USA
- 2006 Srinivas Mantha, John E Ellis, Joseph Foss. Michael F Roizen . Intense cardiac troponin surveillance for long-term benefits is cost-effective in patients undergoing abdominal aortic surgery. Abstract accepted for presentation at 28th Annual Meeting of Society of Cardiovascular Anesthesiologists on April 29-May 3, 2006, at San
- 2005 Srinivas Mantha, John E Ellis . Cost-effectiveness of perioperative drug therapies in patients undergoing surgical repair of abdominal aortic aneurysm (AAA): A cost-effectiveness analysis for long-term survival benefits. . Abstract accepted for presentation at 27th Annual Meeting of Society of Cardiovascular Anesthesiologists on May 14-18, 2005, at Baltimore, Maryland, USA
- 2003 Srinivas Mantha, Lee A Fleisher, Michael F. Roizen. The value of coronary revascularization before vascular surgery for longterm survival benefits: A cost-effectiveness analysis. A paper presented at 25th Annual Meeting of Society of Cardiovascular Anesthesiologists on Apr 26, 2003, at Miami, Florida, USA
- 2001 The value of cardiac risk stratification before vascular surgery for long-term benefits: A cost-effectiveness analysis. (Abstract presented at the annual meeting of Society for Cardiovascular Anesthesiologists, scheduled for May 2001 at Vancouver, Canada)
- 1997 Srinivas Mantha. Computer Modelling of Strategies to Limit HIV Spread in the Health Care Setting. Decision and Cost-effectiveness Analysis: Guest lecture Presented at International symposium on AIDS and Hepatitis at AIIS, New Delhi,
- 1995 S. Mantha. J.F. Foss, J.E. Ellis, L.A. Fleisher, Roizen M.F. Using your data and a decision analysis model to evaluate cost-effectiveness of preoperative morbidity reducing strategies for vascular surgery patients. Paper presented at the 17th annual meeting of society for cardiovascular anesthesiologists (SCA), May 1995.
- 1994 S. Mantha, M.F.Roizen, J.Barnard, R.Thisted, J.E.Ellis, J.Foss. Relative effectiveness of four preoperative tests for predicting adverse cardiac events after vascular surgery: A meta-analysis. Paper presented at the 68th Congress of International Anesthesia Research Society at Orlando, Florida, March 1994.
- 1993 Srinivas Mantha. Controversies in the analysis of 2 X 2 tables. Paper presented at the 67th Congress of International Anesthesia Research Society in March 1993 (San Diego, USA). Abstract of the paper published in Anesthesia & Analgesia