

**CURRICULUM VITAE - Santi Rao M.D.**

**A. Personal Information**

Name Santi Rao  
 Business Address 2291 Pacheco St, Concord CA 94520  
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 Sacramento, CA 95670  
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Education Medical Armed Forces Medical College, Poona India, MD.  
 School 1972  
 Bombay University, Rotating Intern  
 Internship 1/1973-12/1973  
 Muhlenberg Hospital, Plainfield, NJ  
 General Surgery 7/1975-6/1976  
 Residencies Bombay University, Internal Medicine  
 2/1974-8/1975 Bombay University, Nuclear Medicine  
 8/74 Aug-1975 June  
 Diploma in Radiation Medicine)  
 New Britain General Hospital,  
 General Surgery 7/1976-6/1977  
 SUNY Downstate Medical Center,  
 Orthopaedic Surgery 7/1977-6/1980  
 Fellowships 1) University of Southern California,  
Adult Reconstructive and Arthritis  
 1980 -1981  
 2) Germany -  
 Spine Surgery 1981 Aug-1982 Jan  
 Licensure California 1980  
 Board Certification American Board of Orthopaedic Surgery  
 1982

**Professional Background**

**Academic Appointments**

Asst. Instructor, State University of New York, Asst. Professor of Orthopaedics U.S.C. •- 1977-80  
 L.A. Asst. Professor of Neurosurgery U.S.C. 1985-91  
 Director, Orthopaedic Hospital Spine Center 1988-91  
 1991-93

**Specific Teaching Responsibilities**

Supervision and teaching of Orthopaedic and Neurosurgical residents in spinal disorders at USC Medical Center,

Supervision and teaching of Orthopaedic residents in Spinal Injury Clinic at Rancho Los Amigos Medical Center, 1985-91

Supervision of Spine Research Fellows at Orthopaedic Hospital Spine Center 1987-90

**Specific Administrative Responsibilities**

Director, Adult Spinal Disorders, USC Dept. 1991-93

Orthopaedics Chief, Spinal Injury Clinic, Rancho Los Amigos

Med Center Director, Med Student Education, Orthopaedic Surgery, USC - LA County Med Center 1985-91

Assoc Director, USC Orthop Residency Training Program 1987-90

Director, Spine Center, Orthopaedic Hospital Los Angeles 1987-90

**EMPLOYMENT**

Kaiser-Canyon General Hospital, 1991-93

Private Practice, Orthopaedic Surgery, Redwood City, CA

Asst. Prof. Dept of Orthopaedic Surgery, USC Los Angeles, Director of Spine Surgery 1982-83

Director, Orthopaedic Hospital Spine Center, Los Angeles, CA, 1983-85

Spine Surgeon, private practice 1985-91

**Committee Memberships**

American Academy of Orthopaedic Surgery 1991-93

"Sub-Committee on Evaluation for Spine" 1994-now

USC Department of Orthopaedics Committees

Resident Steering Committee, 1990-1991

Resident Evaluation Committee, 1992-1996

Practice Management Committee, 1985-1991

USC School of Medicine Committees

USC/University Hospital Clinical Administration Committee

USC/University Hospital Pain and Spine Center Committee

USC/University Hospital Finance Committee USC Medical

School Year 2 Curriculum Committee

Association of Physicians of Los Angeles County Hospital

Orthopaedic Hospital

Medical Executive Committee 1992-93

Chairman, Utilization Review 1991-93

John Muir Medical Center Concord Campus

Chairman, Dept. Orthopaedic Surgery 2009-2010

Member Medical Executive Committee 2009-2010

**D. Society Memberships**

Local

California Orthopaedic Association  
National  
American Academy of Orthopaedic Surgeons  
Cervical Spine Research Society North  
American Spine Society

**E. Research Activities**

**Articles Published:**

- Rao, S, Yadav, A, Galvan, R  
Posterior Cervical Spine Stabilization Under Local Anesthesia.  
Journal of Spinal Disorders, No.3, (1990)
- Rao, S, Brien, HW, Strassle, P  
Cauda Equina Compression Associated with Breast Cancer  
Differential Diagnosis.  
Clinical Orthopaedics and Related Research (1991)
- Rao, S, Parikh, S, Kerr, R  
Echinococcal Infestation of the Spine in North America.  
Clinical Orthopaedics and Related Research (1991)
- Rao, S, Patzakis, MJ, Wilkins, J, Moore, T, Harvey, PJ  
Spinal Osteomyelitis: Characterization and Review of 61  
Cases . Clinical Orthopaedics and Related Research (1991)
- Rao, S, Schildhauer, T, McKellop, II, Gendler, E,  
Moore, T  
A Biomechanical Study of the Axial Loading Properties of  
Demineralized Femoral Diaphyseal Allograft  
Journal of Clinical Materials (1991)
- Rao, S, Badani, K, Schildhauer, T, Borges, M  
Metastatic Malignancy of the Cervical Spine: A  
Non-Operative History.  
Spine (1992)
- Rao, S, Patel, A, Schildhauer, T  
Osteogenesis Imperfecta - A Differential Diagnosis of  
Burst Fractures of the Spine.  
Clinical Orthopaedics & Related Research (1992)
- Rao, S, McKellop, H, Chao, D, Schildhauer, T,  
Gendler, E, Moore, T  
Biomechanical Comparison of Bone Graft Used in Anterior Spinal  
Reconstruction: Freeze-Dried Demineralized Femoral Segments Versus  
Fresh Fibular Segments and Tricortical Iliac Blocks.  
Clinical Orthopaedics & Related Research (1992)
- Rao, S, Badani, K, Kumar, J, McGuire, P  
Effects of the Log-Rolling Maneuver on the Unstable  
Fractured Spine.  
Neuro-Orthopaedics (1993)
- Rao, S, Waters, R, Badani, K, Sie, I, Adkins, R  
Comparison of  
Computerized Tomography Parameters of the Thoracolumbar Spine in  
Normal Control Subjects and Spinal Cord Injured Patients.

Contemporary Orthopaedics

(Dec 93)

Rao, S, Simonian, P  
Orthopaedic Manifestations of Arnold-Chiari  
Malformations.

Contemporary Orthopaedics

(Sept. 1995)

Rao, S, Sharpe, K  
Cervical Orthoses: Evaluation of a New Cervico-Thoracic Orthosis.  
Spine

(1992)

Rao, S, Badani, K, Jamieson, K, Schildhauer, T  
Pitfalls in the Surgical Management of Cervical Spine  
Injuries.

European Spine Journal

(1996)

Abstracts Published

Rao, S, Hathaway, R, Stewart, C, Bernbeck, J,  
Schildhauer, T, Hung, G  
Evaluation of Femoral Allograft Reconstruction of the Spine Using  
SPECT Scan.

Journal of Nuclear Medicine

(1991)

Articles Submitted

Rao, S, BeDell, K  
Women in Orthopaedics : The reason for the inequities.  
J. Academic Medicine

(1992)

Rao, S, Schildhauer, T, Hathaway, R, Bernbeck, J  
Stewart, C  
The Use of S.P.E.C.T. Scan for the Evaluation of Anterior Spinal  
Reconstruction and Fusion with Demineralized Femoral Allograft.  
JBJS

(1993)

Book Chapters

Rao S, Davis, RF: Cervical Metastatic Disease. The Cervical Spine,  
Third Edition. The Cervical Spine Research Society Editorial  
Committee, 1998. Lippincott-Raven Publishers, Philadelphia; pp.  
603-619.

Davis RF, Rao S: Management of Cervical Metastatic Disease.  
Management of Metastatic Disease to the Musculoskeletal System,  
First Edition, 2002. Quality Medical Publishers, St.Louis,  
Missouri.

Presentations and Papers

American Back Society 1986  
"Spinal Surgery Techniques."

USC-Graduate Orthopaedic Society Annual Meeting 1986  
"Pitfalls of Disc Surgery."

American Back Society 1987  
"Dangers of Burst Fractures."

American Back Society 1987  
"Disc Space Infections."

Cervical Spine Research Society, Florida 1988  
Anesthesia Using Demineralized Allograft."

European Section of the Cervical Spine Research Society "Cervical Spine Fusion Under Local Anesthesia Using Demineralized Allograft."	1988
Scoliosis Research Society "Predisposing Factors Associated with Spinal Deformity in Patients With Metastatic Spinal Cancer."	1989
American Back Society - Oakland, CA "Use of Femoral Allograft in Anterior Spine Reconstruction."	1989
American Spinal Injury Association - Florida "Log-Roll Maneuver Effects on the Unstable Fractured Spine."	1990
International College of Surgeons San Antonio, Texas "Biomechanics of the Spine."	1990
American Back Society - San Francisco, CA "Inappropriate Cervical Spine Surgery Techniques."	1990
American Back Society - San Francisco, CA "The Use of Demineralized Allograft for Posterior Scoliosis Fusion."	1990
Spine Disorders Update -- Palm Beach, Florida "Spinal Infections - The Why, Where, and How of Management."	1991
Spine Disorders Update - Palm Beach, Florida "Thoracolumbar Trauma Management."	1991
Insurance Association Education Class "Common Causes of Neck and Low Back Pain."	1991
Orthopaedic Trauma Association - Seattle, WA "The Effect of the Log-Rolling Maneuver on the Spinal Injured Patient."	1991
Cervical Spine Research Society - "Metastatic Malignancy of the Cervical Spine: A Review of Non-Operative Treatment."	1991
California Orthopaedic Association - Rancho Mirage, California "Log-Rolling Maneuver: Its Effects on the Unstable Fractured Thoracolumbar Spine."	1992
California Orthopaedic Association - Rancho Mirage, California "Comparison of the Stability of Posterior Spinal Reconstruction Using Jacob's Rods With and Without Interspinous Segmental	1992

- Wisconsin Wiring." 1992
- Western Orthopaedic Association - 1992  
Los Angeles Chapter -- La Quinta, CA  
"Metastatic Malignancy of the Cervical Spine:  
A Review of Non-Operative Treatment."
- Western Orthopaedic Association - 1992  
Los Angeles, Chapter - La Quinta, CA "Anterior  
Spinal Reconstruction with Single Photon  
Emission Computed Tomography (SPECT)."
- American Spinal Injury Association - 1992  
Toronto, Canada  
"Pitfalls in the Surgical Management of  
Cervical Spinal Trauma."
- Orthopaedic Hospital Research Day - 1992  
Los Angeles, California  
"Biomechanical Comparison of the Stiffness  
Characteristics of the Human and the Calf  
Spine."
- University of Southern California - Graduate 1992  
Orthopaedic Society - Los Angeles, CA  
"Biomechanical Comparison of the Stiffness  
Characteristics of the Human and the Calf  
Spine."
- University of Southern California - Graduate 1992  
Orthopaedic Society - Los Angeles, CA  
"Canal Remodelling Following Thoracolumbar  
Burst Fractures with Retropulsion CT Analysis."
- Cervical Spine Research Society -- European 1992  
Section - Athens, Greece  
"Metastatic Malignancy of the Cervical Spine:  
A Non-Operative History."
- Cervical Spine Research Society - European 1992  
Section - Athens Greece  
"Pitfalls in the Management of Cervical  
Spinal Trauma."
- North American Spine Society Meeting - 1992  
Boston, Massachusetts  
"Effect of the Log-Rolling Maneuver on the  
Unstable Fractured Spine."
- North American Spine Society Meeting - 1992  
Boston, Massachusetts  
"The Use of SPECT Scan in the Evaluation of  
Incorporation of Femoral Allograft Used for  
Anterior Spine Reconstruction."
- Western Orthopaedic Association - 1992  
Monterey, California (Accepted - to be  
presented) "Metastatic Malignancy of the  
Cervical Spine: A Review of Non-Operative  
Treatment."

Western Orthopaedic Association - Monterey, California "Effect of the Log-Rolling Maneuver on the Unstable Fractured Spine."	1992
American Association of Tissue Banks San Diego, California "Strength of "Surface" Demineralized Microperforated Femoral Segments"	1992
American Academy of Orthopedic Surgeons Meeting "Metastatic Malignancy of the Cervical Spine:  A Review of Non-Operative Treatment."	1993
American Academy of Orthopedic Surgeons meeting "A Biomechanical Comparison of the Human and Calf Spine for In Vitro Testing."	1993
European Fed of Orthopedic Surgeons (EFORT) "Metastatic Malignancy of the Cervical Spine: A Review of Non-Operative Treatment."	1992
European Fed of Orthopedic Surgeons (EFORT) "Effect of the Log-Rolling Maneuver on the Unstable Fractured Spine."	1992
European Fed of Orthopedic Surgeons (EFORT) "Pitfalls in the Management of Cervical Spinal Trauma."	1992
European Fed of Orthopedic Surgeons (EFORT)  "The Use of SPECT Scan in the Evaluation of Incorporation of Femoral Allograft Used for Anterior Spine Reconstruction."	1992
Western Orthopaedic Association "Neurological and Clinical Outcome of Surgery for Cervical Rheumatoid Arthritis"	1993
Western Orthopaedic Association - Seattle Proximal Dens Migration - A New Method for Assessment	1993
Cervical Spine Research Society Proximal Dens Migration - A New Method for Assessment	1993
California Orthopaedic Association- Los Angeles Chapter-San Diego Proximal Dens Migration - A New Method for Assessment	1993
North American Spine Society, Seattle Rao, R, Rao, S, Laminotomy versus Laminectomy: Is there a difference in stability?	2001
American Assoc of Neurological and Orthopaedic	2002

Surgeons, Las Vegas, Nevada - August  
Neurological And Clinical Outcome Of Surgical  
Stabilization For Cervical Rheumatoid Arthritis.

Guest Speaker Presentations

Bombay University "Techniques of Spinal Fusion."	1987
Andhra University of India "Management of Spinal Fractures."	1987
Indian Association of Spine Surgery Bombay, India "Spine Surgery." "The Unstable Spine." "The Use of Allograft for Spine Surgery."	1989
Mexican Society of Orthopaedics - Mexico, Distrito Federal -"Prevencion de las Complicaciones de la Cirugia de Columna Cervical."	1992
Mexican Society of Orthopaedics - Mexico, Distrito Federal "Cirugia Fallida de Columna."	1992
Visiting Professor - Lecturer Istanbul, Turkey	1992
Visiting Professor - Lecturer Polish Orthopaedic Society Bydgoszcz, Poland	1995

Poster Presentations

American Spinal Injury Association - Toronto, Canada "Metastatic Malignancy of the Cervical Spine: A Review of the Natural History."	1992
British Spine Meeting -- 27th Feb- 01 March Posterior Spinal Decompression -A Biomechanical Comparison of Instability Anukul K.D. Goswami, Santi Rao, MD, Raj Rao MD	2002
American Academy of Orthopaedic Surgery Meeting Rao, R, Rao, S, Laminotomy versus Laminectomy: Is there a difference in stability?	2002

Seminars Organized

*The Specialists Medical Corporation*

Industrial Low Back Injury - "What's Hot & What's Not."	1994
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Vacaville, California	
Orthopaedic Management of Shoulder Injuries. Fairfield, California	1994
Industrial Neck Injury and Other Fairy Tales, Fairfield, California	1994
How to Shoulder the Burden - Work Injuries of the Shoulder. Fairfield, California	1995
The Case of the Injured Driver. Why do the shoulder and neck hurt Fairfield, California	1995
Neck and Shoulder Injuries. Fairfield, California	1995
Why Your Employee Is Limping. Fairfield, California	1996
Zen and the Art of Whiplash Management Concord, California	2002
John Muir Orthopaedic Day	2006-8