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Mathias Alexander Masem, M.D. *Curriculum Vitae*

Background

1948 Born, Brainerd, Minnesota
1966 Graduation from Shattuck School, Faribault, Minnesota
1970 A. B. Degree, Macalester College, St. Paul, Minnesota
1970-71 Legislative Analyst, Minnesota Senate, Administrative Assistant to the Honorable Gordon Rosenmeier, President of the Minnesota Senate.

Medical Education

1975 M.D., University of Minnesota
1975-78 Residency in Surgery, H.C. Moffitt —University of California Hospital, San Francisco, California
1978-80 Robert Wood Johnson Clinical Scholar— U.C. San Francisco, Stanford University Program
1980-83 Residency in Orthopedic Surgery, University of California, San Francisco, California
1983 A.O. Clinical Fellow, Orthopedic Clinic of the Inselspital University of Bern, Bern, Switzerland
1984 Hand Surgery Fellowship with Jack Tupper, M.D., Oakland, California
1985 Orthopedic Research Physician, M.E. Mueller Institute for Biomechanics, University of Bern, Bern, Switzerland and Institute for Experimental Surgery, Davos, Switzerland
1986-87 Clinical and Research Fellow in Surgery, Division of Plastic, Reconstructive, Hand and Microsurgery, Massachusetts General Hospital, Boston, Massachusetts
Clinical Fellow in Surgery, Division of Plastic, Reconstructive, Hand and Microsurgery, Harvard Medical School, Boston, Massachusetts

Current Professional Affiliation

1987-present Private Practice, Oakland, California
1987-present Attending in Orthopedic Surgery, Hand and Upper Extremity Clinic, Highland/Alameda County General Hospital Oakland, California
1987-present Attending in Orthopedic Surgery, Hand Surgery Clinic, Children's Hospital, Oakland, California
1992-present Attending in Orthopedic Surgery, Hand Clinic, University of California at San Francisco, San Francisco, California
1993-present Consultant in Hand Surgery, University of California Athletic Teams, Sports Medicine Program, University of California, Berkeley California
1996-present Consultation in Upper Extremity Orthopedic Surgery, University Health Services, University of California, Berkeley, California

- 1997-present .Assistant Clinical Professor, Department of Orthopedic Surgery, University of California at San Francisco, San Francisco California
- 1997-2003 Chairman, Department of Orthopedic Surgery, Alia Bales Summit Medical Center, Oakland, California
- 2003-present Chief, Department of Hand and Upper Extremity Surgery, Alia Bates Summit Hospital Medical Center, Oakland, California

Professional Certification:

Diplomate, American Board of Orthopedic Surgery
American Board of Orthopedic Surgery Added Qualification in Surgery of the Hand

Professional Organizations:

American Society for Surgery of the Hand-Member
American Academy of Orthopedic Surgery-Fellow
Habilus Hand Society-Member California Orthopedic Association Alameda-Contra Costa Medical Association
California Medical Association
American Medical Association

Honors:

- 1973-74 Medical Assistance Programs — Reader's Digest International Fellowship (study of health care delivery and the care and treatment of leprosy, Mohulpahari Christian Hospital, Mohulpahari, Bihar, India).
- 1975 Minnesota Medical Foundation Student Achievement Award (awarded annually for student leadership and academic achievement).
- 1975 University of Minnesota Student Leadership and Service Award (awarded annually among the colleges for student leadership and community-service).

Governmental Affairs:

- 1969-70 Chairman, Program Board, Macalester College
- 1973-74 President, Medical Student Council, University of Minnesota
- 1974-75 Senior Class President, University of Minnesota Medical School
- 1976-80 Health Policy Advisor and Personal Physician to the Honorable Richard Nolan, Member of Congress, District 6, Minnesota
- 1976-78 Co-founder and Vice President, San Francisco, Interns and Residents Association
- 1977-78 Chairman, House Officer Advisory Committee, California Medical Association
- 1978-79 Co-founder and Vice President, California House Officer Medical Society (the 13th component society of the California Medical Association)
- 1979-80 President, California House Officer Medical Society

Committees and Commissions:

- 1978 U.C. San Francisco Study Commission on Cost Containment
- 1979-81 American Medical Association, Council on Legislation (one resident physician nationally nominated by the Board of Trustees)
- 1978-81 California Medical Association, Commission on State Legislation (one resident physician nationally nominated by the Council)

1980-81 California Medical Association, Commission on Stale Legislation, Chairman,
Subcommittee on Public Health Legislation

Emergency Medicine:

1978-87 Modesto City Hospital Emergency Physicians' Group, Modesto, California
1986-87 Merrimac Valley Emergency Physicians' Group, Lowell General Hospital, Lowell,
Massachusetts

Research:

- 1972-74 Research into rural health care delivery systems, "Lamberton Project", with John B. O'Leary, M.D., Department of Family Practice, University of Minnesota Medical School
- 1974-75 Tumor Immunology research with Dr. Charles McKhann, Department of Surgery, University of Minnesota Medical School
- 1978-79 Health services research protocol development involving surgical approaches to chronic disease, Robert Wood Johnson Clinical Scholars Program and the U.C. San Francisco Program in Health Policy
- 1979-80 Research into occupational disability following total hip arthroplasty with William R. Murray, M.D. and Wallace V. Epstein, M.D., Department of Orthopedic Surgery and Robert Wood Johnson Clinical Scholars Program, U. C. S. F., San Francisco, California
- 1983-84 Research into peripheral nerve regeneration using microsurgical nerve grafting techniques, with H. Relton McCarroll, Jr., M.D. and John J. Niebauer, M.D., Departments of Hand Surgery, Pacific Medical Center, San Francisco, California
- 1985-86 Research into the effect of metal internal fixation implants on tendons and soft tissues with S. M. Perrcn, M.D., and B. Rahn, D.M.D., M.D., Mueller Institute for Biomechanics, Institute for Experimental Surgery, Davos, Switzerland
- 1986-87
1. Research:
 - a) Tine inherent bacterial clearing abilities of tissues used in the reconstruction of infected wounds.
 - b) The effect of various cheniotherapculic agents on microvascular graft patency using a unknjue thrombosis model.
 - c) The use of magnetic resonance imaging in the diagnosis of fascial compartment syndromes.
 2. Anatomic Study: Definition of the microvascular anatomy of the brachioradialis muscle for use as a flap in arm reconstruction.
 3. Clinical study: The long term results of internally fixed complex distal radial fractures.

Faculty Positions:

1. University of Mississippi — American Society for Surgery of the Hand Course in internal fixation of the hand and wrist, San Diego, California - August 1988. LECTURER AND LAB INSTRUCTOR.
2. American Academy of Orthopedic Surgeons 1990 Summer Institute "Elbow and Wrist Surgery", Monterey, California - September 1990. LAB INSTRUCTOR.
3. American Academy of Orthopedic Surgeons course "Upper Extremity Fractures and Trauma Management Decisions", San Diego, California - November 1991. LECTURER AND LAB INSTRUCTOR
4. University of California at San Francisco Course "Complex Distal Radius Fractures", San Francisco, California - October, 1992. LECTURER AND LAB INSTRUCTOR.
5. Arthritis Foundation Symposium for Health Professionals "Current Concepts in Surgical Management of Arthritis of the Hand", Walnut Creek, California - October, 1992. LECTURER.

Publications:

1. "The Current Status and Treatment of Leprosy", senior thesis, University of Minnesota Medical School, Spring 1975.
2. "Our Political Responsibilities as Physicians", President's address to the Senior Class in Medicine, Minnesota Medicine, October 1975.
3. "Issues in Cost Containment within Residency Training Programs" C.M.A./C.H.O.M.S. Bulletin, Fall 1979.
4. "Occupational Disability Following total Hip Arthroplasty", Robert Wood Johnson Foundation Proceedings, Fall 1980.
5. "Factors Influencing Return to Work Following, total Hip Arthroplasty", LeRoy Abbott Society Proceedings, Spring, 1982.
6. "Regeneration in Irradiated Rat Peripheral Nerves", LeRoy Abbott Society Proceedings, Spring 1983.
7. "The Role of the Schwann Cell in Peripheral Nerve Regeneration", Proceedings of the Residents' and Fellows' Session, American Society for Surgery of the Hand, February 1986.
8. "The Response of Tendons and Soft Tissues to Metal Internal Fixation Plates", Orthopedic Research Society Proceedings, February 1986.
9. "The Biomechanical Response of Tendons to Metal Internal Fixation Plates", Orthopedic Transactions, 1986.
10. "Reconstruction of Post-Traumatic Deformity of the Distal Radius and Ulna", Jesse B. Jupiter, M.D. and Mathias Masem, M.D., *Hand Clinics*, Volume 4, No. 3, pp. 377-390, August 1988.
11. "Microvascular Anastomosis Patency- with Low-Dose Heparin Therapy: An Experimental Study", *Surgical Forum*, Volume 38, 1987.
12. "Therapeutic Value of Intravenous Heparin in Microvascular Surgery: An experimental vascular thrombosis study: B. M. Greenberg, M.D., M. Masem, M.D. and J. W. May, Jr, M.D. *Plastic and Reconstructive Surgery*, Volume 82, No, 3, 463-470.
13. O. R. J. F. of Comminuted Intra-articular Distal Radius Fractures. "The Upper Extremity Pilon". J. B. Jupiter, M.D., M. Masem, M.D., D. Chen, M.D., Orthopedic Transactions, published by Journal of Bone and Joint Surgery, Volume 13, No, 1, spring 1989.

14. "The Role of Magnetic Resonance Imaging in Assessing Elevated Intracompartmental Pressure in the Rabbitt Hindlimb." B. M. Greenberg, M.D., M. Masem, M.D., M. Ragozzino, M.D., D.A. Schoenfeld, PhD and J. W. May, Jr., M.D. *Plastic and Reconstructive Surgery*, Volume 82, No. 4, pp 678-683, October 1989.
15. "Comparative Bacterial Cleaning Abilities of Muscle versus Subcutaneous Tissue, with and without Dead Bone", *Plastic and Reconstructive Surgery*, Volume 85, No, 5 pp. 773-781 May 1990.
16. "Biomechanical, Histological, and Surface Ultrastructural Changes in Tendons Secondary to Metal Internal Fixation Plates". (Submitted for publication)
17. "An Anatomic and Clinical Study of the Brachioradialis Muscle and its Use as a Local Flap in Upper Extremity Soft Tissue Reconstruction". (Submitted)