

Robert L. Masson, M.D. Curriculum Vitae

ROBERT LEON MASSON, JR., M.D.
Diplomate, American Board of Neurological Surgery
President, NeuroSpine Institute

OFFICES

NeuroSpine Institute
 2706 Rew Circle, Ste 100
 Orlando, Florida 34761
 Office: (407) 649-8585
 Fax: (407) 649-0151

PERSONAL DATA

Birthplace: Austin, Texas
Date of Birth: October 3, 1963
Wife: Denise Brager Masson, P.T.
Military: Lieutenant Commander, United States Navy Reserve, Retired
License: Florida # ME0063598
 Washington # MD00032281
 Michigan # 4301088831
 Utah # 8012707-1205

American Board of Neurological Surgery, Written exam: March 26, 1994, PASS (92nd percentile)

American Board of Neurological Surgery, Oral Exam: November 18, 1999 PASS

American Board of Neurological Surgery, Re-certification: June 2009

EDUCATION

University of Florida, Gainesville, FL

Member: Junior Honors Medical Program (7 year BS/MD Honors Program)

1985: B.S. in Medical and Biochemical Science, with Honors

1988: M.D.

Internship: General Surgery (July 1988-June 19-1989)
 University of Florida, Shands Hospital
 Gainesville, Florida
 Director: Kirby Bland, M.D.

Residency: Neurological Surgery (July 1989-June 1995)
 University of Florida, Shands Hospital
 Gainesville, Florida
 Director: Albert L. Rhoton, Jr., M.D.

Fellowship: Skull Base Surgery and Neurotology- (April 1994- June 1994)
 Subspecialty Rotation
 House Ear Clinic
 Los Angeles, CA
 Director: Derald Brackman, M.D.

Specialty Sports Spine Surgery and Reconstructive Spine Surgery

EXPERTISE

- Minimally Invasive Neurosurgery
- Microneurosurgical Anatomy
- Skull Base Surgery
- Cerebrovascular Neurosurgery
- Complex Spine Surgery
- Spinal Instrumentation
- Neuronavigation
- Image Guided Spine Surgery
- Artificial Disc
- Intraoperative EP Monitoring
- Biologics in Brain and Spinal Surgery
- Spinal Cord Injury
- Degenerative Brain Disease
- Concussion and Traumatic Brain Injury

POST GRADUATE TRAINING

- BAK Implants-anterior/posterior/lateral
- Microendoscopic Discectomy
- Neuronavigation/Computer assisted surgery
 - Medtronic, Stealth
 - Brainlab, Fluoronav
 - Medtronic, O-ring
- Outpatient Spine Surgery
- Ray Cage Implants-posterior
- Linac Radiosurgery
- Complex Image Guided Spine Surgery and Pedicle Screw Placement
- Cervical Spine Decompression and Reconstruction
- Artificial Disc- Lumbar
 - Medtronic
 - Synthes
- Artificial Disc- Cervical
 - Medtronic
 - Synthes
 - LDR Mobi-C
- Kyphoplasty
- Vertebroplasty
- Cervical Instrumentation
 - Anterior
 - Posterior
 - Resorbable
- Nuvasive
 - XLIF

TLIF

- Transthoracic Instrumentation
Synthes
Medtronic
- Anterior and Retroperitoneal Instrumentation

PRIVILEGES

Health Central Hospital
10,000 W. Colonial Drive
Ocoee, Florida 34761
(407) 296-1000

Florida Hospital Orlando
400 Celebration Place
Celebration, Florida 34747
(407) 303-4000

Global Microsurgery Center @ NSI Orlando
2712 Rew Circle
Orlando, Florida 34761
(407) 649-8585

Down Town Surgery Center
801 N. Orange Avenue
Orlando, Florida 32801
(407) 650-0051

Global Microsurgery Center @ NSI Park City
8100 Sidewinder Drive
Park City, Utah 84098
(407)649-8585

LEADERSHIP

Co-Founder, Chief Executive Officer, PingMyDoc, LLC
President, --Neurosurgical Consultants of Florida – May 1999-June 2002
President, --Neurospine Institute of Orlando—May 2002- present
President-Neurospine Institute of Park City- August 2013-present
President-Global Microsurgery Center Orlando-March 2013-present
President-Global Microsurgery Center Park City-August 2013-present
Director – Neurological Surgery – Memorial Clinic, Ltd. P.S., Olympia, WA 98506--1996-1999
Co-Founder, Chief Executive Officer – MyDataVault, Inc – April 2001

Committee

- Health Technology Committee, Economic Development Council, Orlando, January 2002
- Information Technology Committee, Florida Hospital, 1999-2000
- Patient Care Committee, Orlando Regional Healthcare System, 2001
- Compensation Review, Memorial Clinic, 1998
- Spine Center Development, Memorial Clinic, 1998
- OR Guidance Committee, St. Peters Hospital, 1998

- Clinical Pathway Chair, Craniotomy, 1997
- Outpatient Spine, 1998
- Trauma Committee, neurosurgery, 1996-1999, July
- St. Peters Hospital Information Services Committee, 1998
- Spine Center of Excellence Committee, ORMC, 2001-2003
- Level 1 Trauma Committee, ORMC, 2001-2003
- Surgical Product Committee, ORMC, 2002-2003
- Minimally Invasive Spine Center, Health Center, 2004- present
- Council of Champions, STOP Sports Injuries Campaign
- Advisor and Medical Contributor, GridIron Greats
- Ambassador, LiveStrong Foundation

PROFESSIONAL SOCIETY

AANS-Active
 Orange County Medical Society
 Florida Medical Association
 AO North American Spine
 Society Minimally Invasive Spine Surgery (SMISS)

RESEARCH

Dorsal Root Crush Injury and Glial Scar Formation
 Sponsor: Paul Reier, Ph.D.
 Supported by NIH grant
 Fall 1987

Post-MD Fellowship (July 1989-June1990)
 University of Florida, Department of Neuroscience
 Electrophysiology and Neuroanatomy of Proprioceptive Pathways and IA Afferent Fibres
 Supervisor: Louis Ritz, Ph.D.
 Embryonic Transplantation of Central Nervous Tissue in Spinal Cord Trauma
 Supervisor: Paul Reier, Ph.D., Daniel Theele, D. V. M.

Lateral Recess Stenosis
 Synthes- Active

Osiris Therapeutic Allograft Stemcell in Fusion
 Osiris—Active

Interpedicular Minimal Access Surgery (iMAS)-Active
 Inventor-
 Faculty-Synthes Spine, Davos, Switzerland

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Product Developer-Synthes Spine, Davos, Switzerland
 Depuy Synthes Spine, Raynham, MA
 Consultant-Synthes Spine, Westchester, PA
 Depuy Synthes Spine, Raynham, MA

Prodisc-Artificial Disc-Active
 Chairman of Surgeon Education and Certification
 Depuy Synthes Spine, a Johnson and Johnson Co., Raynham, MA

TEACHING EXPERIENCE

- 1988 Instructor, Medical Neuroscience (for first year medical and dental students).
1990. Instructor, Medical Neuroscience (for first year medical and dental students).
- 1992 Instructor, Medical Neuroscience (for first year medical and dental students).
- August 1991- Instructor, Microsurgical anatomy of the Skull Base, Practical Course
 University of Florida, Department of Neurological Surgery Course Director:
 Albert Rhoton, M.D.
- April 1991- Masson, R. L. and Day, A. L.: Reconstruction of the External Carotid Artery for
 Brain and Retinal Ischemia, Southern Neurosurgical Society, Washington, D.C.
- April 1992- Day, A. L. And Masson, R. L.: Role of the ECA in Stroke. American Associate of
 Neurological Surgeons. National Meeting, Boston, M.A.
- April 1992- Day, A.L., Knego, R.S. and Masson, R.L.: Aneurysms of the Clinoidal Segment.
 American Association of Neurological Surgeons. National Meeting, Boston,
- September 1992- Instructor, Practical Course of Complex Spinal Instrumentation
 University of Florida, Department of Neurological Surgery and Orthopaedics Course
 Directors: Richard Fessler, M.D., Ph.D. and Michael McMillan, M.D.
- March 1994- Instructor, Practical Course in Complex Spinal Instrumentation University of Florida
 Department of Neurological Surgery and Orthopaedics Course Directors:
 Richard Fessler, M.D., Ph.D. and Michael McMillan, M.D.
- March 1, 1996- Masson, R. L.: Neurologic Cancer. Cancer Update for Primary Care
 Practitioners, 7th Annual Providence St. Peter Hospital Regional Cancer Center and
 Medical Staff Conference
- March 1996- Olympia, WA, Masson, R. L.: Idiopathic Subarachnoid Hemorrhage. Neurosurgery
 In Jackson Hole. Jackson Hole, WY.
- June 3, 1996- Masson, R. L.: On the Field Assessment of Head and Neck: Coaches Forum.
 Providence St Peter Hospital, Olympia, WA.
- March 1997 – May 2000- Consultant, Sofamor Danek
- Neuronavigation
 - Brainlab
 - BAK Implants

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April 1998- Faculty, Spinetech- Sulzer, BAK Cage Implant Course, Squaw Valley

May 1999- Faculty, Spinetech- Sulzer, BAK Cage Implant Course, Bellingham, WA

March 1998- Masson, R. L.: Diagnosis and Treatment Acoustic Nevromas, 9th Annual Providence St. Peter Hospital Regional Cancer Center and Medical Staff Conference, Olympia, WA.

April 1999- Masson, R. L.: Spinetech- Sulzer, Instructor, Bend, OR>

May 1999- Masson, R.L.: Spinetech- Sulzer, Instructor, Bellingham, WA.

June 1999- Masson, R.L.: Spinetech- Sulzer, Practical Course Instructor: BAK Cage Implant, Squaw Valley.

June 1999- Masson, R.L.: Microendoscopic Discectomy, Vancouver, B.C.

November 1999- Masson, R.L.: Gateway to the Brain, Microendoscopic Spine Surgery, Orlando, FL.

March 2000- Masson, R.L.: SandLake Hospital, Microendoscopic Spine Surgery, Orlando, FL

May 2000- Masson, R.L.: SandLake Hospital, Medicine Grand Rounds

June 2000- Masson, R.L.: SandLake Hospital, 55 Plus Complex Spine Surgery, Orlando, FL

June 2000- Faculty, AO Synthes, Special Surgical Approaches to the Spine, St Petersburg, FL

January 2003- present- Faculty, Synthes Spine

- Oblique Lumbar Interbody Fusion
- Minimal Access Surgery
- Complex Spinal Reconstruction
- Artificial Disk- Cervical
- iMas Preceptorship
- iMas Traveling Fellowship

October 2006- present- Faculty, Medtronic

- Artificial Disc, Cervical
- Image Guidance in Deformity
- Segmental Surgery in Deformity, Percutaneous Rods

January 2003- present- Kyphon

- Kyphoplasty versus vertebroplasty for spinal compression fractures

January 2006- present, AO North American

- Minimal Access Surgery

August 2010-present, Synthes Spine (One of only four North American sites)

- Prodisc C, Artificial Disk Training

March 2008- Cornell University Medical Center, AO Spine Expert Group Minimally Invasive Surgery, iMAS-interpedicular minimal access surgery

Ongoing 2008-present-Synthes Spine
(IMAS) Minimal Access Surgery Forums, monthly

January 2010-present- Assistant Professor-University of Central Florida; School of Medicine

April 2010-present- Assistant Professor- University of Florida, Department of Neurosurgery

May, 2010, Visiting Professor, University Hospital, Milan, Italy

August 2010-present, Synthes Spine

- Prodisc C, Arthroplasty
 - o One of only four North American Training Sites

September 2010, Masson, R.L., Shands Hospital, University of Florida,
Department Neurosurgery Grand Rounds

July 2012, Masson, R.L., Shands Hospital, University of Florida,
Department Neurosurgery Grand Rounds

Ongoing
Chairman of Surgeon Education and Certification-iMERGENT Procedure
Depuy Synthes Spine, Raynham, MA

Chairman of Surgeon Education and Certification-Prodisc C
Depuy Synthes Spine, Raynham, MA

INTELLECTUAL PROPERTY

Synthes Spine
Inventor, Tpal Lumbosacral Interbody Spacer System
Inventor, The Imas Procedure Retractor System
Inventor, The Sniper Scope, radiolucent pedicle screw guide
Surgeon Developer, Matrix Pedicle Screw System

Depuy Synthes Spine
Inventor and Chief Surgeon Developer, iMERGENT

Mitaka USA
Surgeon Inventor, Kestrel View Microsurgery System

Sidewinder, LLC
Inventor, Sidewinder Expandable Cage, and Access System

Mydatavault, Inc.

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Inventor, Global Internet Based Patient Centric Medical Record System

Eagle 6, LLC

Inventor, Cervical Spinal Implant without fixation

Inventor, Cervical Spinal Implant with fixation

Tecres

Inventor, Allograft Pressure Injector

TRADEMARKS

The Imas Procedure

The Masson Keyhole

NeuroSpine Institute

PUBLICATIONS

Masson, R.L., Sparkes, M., and Ritz, L.: Descending Projections to the Rat Sacrocaudal Spinal Cord. *Journal Comparative Neurology*. 307: 120-130. 1991.

Ritz, L., Bailey, S.M., Carter, R.L., Sparkes, M., Masson, R.L., and Rhoton, E.L.: Crossed and Uncrossed Projections to Cat Sacrocaudal Spinal Cord: II, Axons from muscle Spindle Primary Endings. *Journal of Comparative Neurology*. 304: 316-329. 1991

Masson, R.L. and Day, A.L.: Aneurysmal Intracerebral Hemorrhage. *Neurosurgical Clinics of North America*. 1993

Day, A.L., Masson, R.L., and Knego, R.S.: Surgical Management of Cavernous Sinus Aneurysms And Fistulae. *Operative Neurosurgery*. Editors: Schmidek/Sweet. New Edition. Release Summer 1994.

Glasser, R., Masson, R.L., Mickle, J.P., and Peters, K.: Embolization of a Dural AV Fistula of the Ventral Cervical Spinal Canal in a Nine Year Old. *Neurosurgery*. 33 (6). 1993

Day, A.L., Knego, R.S., and Masson, R.L.: Aneurysms of the Clinoidal Segment

Day, A.L. and Masson, R.L.: Reconstruction of the External Carotid Artery for Brain and Retinal Ischemia.

1996- Fessler, R.F. and Masson, R.L.: Management of Thoracic Fractures. *Principles of Spinal Surgery*, Menezes and Sonntag, McGraw-Hill.

EDITORIAL

Central Florida Magazine (2010-present)

- Advisory Board

Golf Fitness Magazine (2006-present)

- Advisory Board

- Editorial Review

Discovery Health Network (2004)

- Impact: Stories of Survival
- Consultant and Expert

Growing Bolder, Inc. (2012)

- Editorial Board
- Creator Spine Health TV and NSI TV
- Advisor
- Featured Story-Growing Bolder TV show, June 2013

Conquering Kilimanjaro-Documentary

- Executive Producer

CORPORATE APPOINTMENTS-PRODUCT DEVELOPMENT

1995-2001- Consultant- Spinetech-Sulzer

- BAK Implant

1999-2006 President and CEO- MyData Vault

2003- Consultant- Codman

- ICP Monitoring

2004- 2008- Consultant- EBI

- External Bone Stimulators

2006- 2013- Consultant- Synthes Spine

- Education
- Research
- Product Development Minimally Invasive Spine Surgery
- Minimal Access Surgery
 - (iMas)
 - (Prodisc) Artificial Disk, Cervical
- iMas Preceptorship
- iMas Traveling Fellowship Director

2006- 2008 Consultant-Medtronic

- Education
- Artificial Disc
- MAST in deformity

2006- present- Clinical Advisor- Osiris Therapeutic

- Spinal Fusion and Biologics

2005-2009-present- Clinical Advisor- Nucell

2005-present- President- MDV Consultant

- Information technology
- HC Overhaul
- Informatics in the business of healthcare
- Outcomes and Practice Management
- Information Technology-Ambulatory Care

2008 Synthes Spine

- Prodisc C, Arthroplasty, North American Training Site
- Prodisc C, Chairman

2010-present-Consultant- Milan, Italy

- Tecres
- ItaloOrthopaedics

2014-present-Consultant and Advisory Board

- Biedermann Motech, Villengen-Schwenningen, Germany

2012-present-Advisory Board

- Saphaeniae, Stockholm, Sweden

2009-present-Consultant and Surgeon Developer

- Kestrel View 3DHD Digital Microsurgery System, Mitaka USA

2014-present-Consultant Vivigen Stem Cell

- Depuy Synthes Spine, Raynham MA

2013-present-Consultant and Protocol Surgeon Creator

- Human Performance Institute, Depuy Synthes Spine Patient Athlete Platform(tm) for Spine Procedures

2012-present-Founder, Developer, Advisor

- PingMyDoc Patient Registration App and System (pending)

2012-present-Chairman Education

Prodisc Arthroplasty Program
iMERGENT Surgical Platform (Surgeon Creator)
Depuy Synthes Spine, Raynham, MA

2014-present-Surgeon Developer Spine Platform
Surgical Theater, Cleveland, Ohio

2014-present-Board Member, Grant Working Group
California Institute of Regenerative Medicine (CIRM)

PERSONAL INTERESTS

Children: Kyle, Brett, Casey, Alexander, Keira

Flying, Skiing, Scuba Diving, Surfing, Sports, Mountaineering, Racing

Pilot - Private, instrument ratings, Commercial, High Performance Single Engine and Multi-engine

Scuba- Open Water, Cave and Wreck Master, Advanced Open Water, Nitric and Mixed Gas

Boating- Captain