**CURRICULUM VITAE**

**Patrick F. Doherty, MD, FACS, FAANS**

**Certification #22119 (American Board of Neurological Surgery)**

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**ADDRESS**

Yale Neurosurgery New London

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**PERSONAL**

Date of Birth November 4, 1967

Place of Birth New Brunswick, NJ

Citizenship USA

**WORK EXPERIENCE**

**6/7/16 – Present Yale Medical Group, Assistant Professor, Neurological Surgery (Associate Professor Candidate)**

**6/7/16 – Present Medical Director, Yale Neurosurgery New London**

6/1/13 – 6/7/16 L&M Medical Group: Neurosurgery (Hospital-Based Practice, 194 Howard St, 3W, New London, CT)

10/1/11 – 6/1/13 L&M Physicians Association: Neurosurgical Group (Hospital-Based Practice, 50 Faire Harbour, 2A, New London, CT)

5/4/09 – 9/30/11 Associated Specialists of Southeastern Connecticut: Neurosurgical Group (Hospital-Based Practice, 50 Faire Harbour, 2A, New London, CT)

4/1/05 – 5/3/09 Sound Medical Associates: Neurosurgery (Hospital-Based Practice, 50 Faire Harbour, 2A, New London, CT)

7/1/99 – 3/31/05 Neurological Group, PC (Private Practice, 350 Montauk Ave, New London, CT)

**INTERNSHIP AND RESIDENCY**

 1998 – 1999 Chief Resident, Neurological Surgery

 University of Maryland Medical Systems

 Baltimore, MD (Chair, Howard Eisenberg, MD)

1994 – 1998 Resident, Neurological Surgery

 University of Maryland Medical Systems

 Baltimore, MD (Chair, Howard Eisenberg, MD)

 1993 – 1994 Intern, General Surgery

 University of Maryland Medical Systems

 Baltimore, MD

**EDUCATION**

1. MD, University of Medicine and Dentistry of New Jersey

Robert Wood Johnson Medical School

Piscataway, NJ

1. BA, Biology; Minor French; The Johns Hopkins University

Baltimore, MD

**PROFESSIONAL POSITIONS**

* Assistant Professor Neurosurgery, Yale School of Medicine, Yale Medical Group (1/1/17)
* Clinical Assistant Professor Neurosurgery, Yale School of Medicine, Yale Medical Group (4/1/16)
* Medical Director, Yale Neurosurgery New London (6/7/16)
* Diplomat, American Board of Neurosurgery

Board Certified 2002; recertified 2012

* Chief, Division of Neurosurgery, Lawrence & Memorial Hospital, 1/1/08 – Present
* Vice Chairman, Department of Surgery, Lawrence & Memorial Hospital, 1/16/14 – Present
* Co-Chairman, Surgical Services Governance Committee, 4/08 - Present
* Chairman, Yale Department of Neurosurgery Committee on Faculty Compensation, 12/18 – present
* Member, Committee on Integrated Care Model – Low Back Pain; protocol development; Yale New Haven System, 6/19 - Present
* Lead Surgeon, Spine Collaborative Initiative; responsible for saving over $900,000 in spinal implants via negotiations and collaboration with hospital purchasing; 10/11 - present
* Chairman, Surgical Chairman Search Committee, 3/30/12 – 1/1/13 (successful candidate hired)
* Founding Chairman, Perinatal Executive Committee, 11/12 – 2/13 (transition to Obstetrician)
* Committee Member, Integrated Care Model: Lower back pain, Yale New Haven Hospital System, 6/19 – present
* Committee Member, Lawrence & Memorial Hospital Board Committee on Clinical Technology

2006 – Present

* Member, Lawrence & Memorial Physician’s Advisory Council to the President, 1/11 – 12/13
* Trustee, Board of the New London County Medical Association; 2000 - 2010

 Legislative Chairman, 2004 – 2006

* Member, Lawrence & Memorial Physician’s Association (LMPA) Physician Advisory Committee, 10/10 – 4/16
* Medical Staff Officer, Lawrence & Memorial Hospital

 Secretary/Treasurer, 2002 – 2004

 Vice President, 2004 – 2005

* Trustee, Board of the Sound Medical Associates; 2005 – 2009
* Member, Joint Conference Committee on Hospital-Physician Relationship; 10/10 – 6/13
* Committee Member, Lawrence & Memorial Hospital Board Committee on Strategic Planning; 2004 – 2010
* Representative, Lawrence & Memorial Hospital Medical Staff Committee on Bylaws; 2001 – 2005

**PAID CONSULTANT**

Atlas Spine (6/19): expandable cervical cage consultant

AlphaTec (9/2012): Alpha testing: interbody stand-alone cervical fusion device

LANX (10/2012): Alpha testing: compressible interspinous fusion device (Alpine)

SpineArt (1/2012 – Present): Development and teaching international surgeons in use of interspinous fusion and L5-S1 device

Surgical Directions (10/2013): Perioperative services and collaborative management consultant

Xtant Medical X-Spine (1/16): Data review, manuscript preparation for retrospective review of interspinous fusion indications and results

**PHYSICIAN CHAMPION**

Robotic Spine Program, Lawrence + Memorial Hospital

Skin care in spinal surgery, HAPU reduction project

Spine Collaborative: project saved $469,000 to hospital over the course of 6 months via contracts, equipment efficiency, vendor analysis, evidence review

Surgical Unit Based Safety Program (SUSP) initiative for prevention of surgical site infections

**AWARDS**

Connecticut Magazine Top Doc Award, April 2011; April 2012; April 2013; April 2014; April 2015; April 2016; April 2017

Reader’s Choice Award, New London Day, April 2015; April 2016; April 2017

**COMMUNITY ACTIVITY**

Member, Outreach Committee, for The Williams School, January 2011 – June 2013

Trustee, Board of The Williams School, May 2011 – Present; member of the Audit, Strategic Planning, and Long-Range Planning Committees

Chair, Committee on Trustees for The Williams School, June 2013 - Present

**PROFESSIONAL MEMBERSHIPS**

American Academy of Neurological Surgery, Member; 1997 – 2011

 Fellow, American Academy of Neurological Surgery, 2011 – Present

 Fellow, American College of Surgeons, 2010 - Present

 North American Spine Society, Member; 1999 - Present

 New England Neurosurgical Society, Member; 1999 – Present

 Connecticut State Neurosurgical Society, Member; 1999 – Present

 Connecticut State Medical Society, Member; 1999 - Present

 Joint Section of Tumors, AANS/CNS, Member; 1997 – 2015

American Association of Cancer Research, Associate Member; 1996 – 1999

**MEETING LEADERSHIP**

May 2017: Spine Paris, World Congress of Minimally Invasive Spine Surgery; Course Director, Session on “Minimally Invasive Interbody Fusion”

June 2014: Spine Paris, World Congress of Minimally Invasive Spine Surgery; Moderator, Session on “Free Papers, Non fusion Techniques”

June 2014: Spine Paris, World Congress of Minimally Invasive Spine Surgery; Course Director, Session on “Minimally Invasive Interbody Fusion”

**LECTURES**

September, 2019: L&M Wellness / Yale New Haven Health Lecture; “An Integrated Approach to Spine Care”

April 2018: L&M Wellness / Yale New Haven Health Lecture; “Diagnosis and Treatment of Spinal Stenosis”

March 2018: Westerly Wellness / Yale New Haven Health Lecture; “Advances in Spine Surgery”

September 2017: Yale Health / L&M Clinical Lecture Series; “New Technologies in Surgical Management of Back Pain”

May 2017: Spine Paris: Podium Presentation, “Future of Minimally Invasive Interbody Fusions”; World Congress of Minimally Invasive Spine Surgery

Nov 2015: SpineArt Presentation and Lab to Surgeons, Barcelona, Spain; “The Role of interspinous fixation in the surgical treatment of lumbar degenerative conditions

Dec 2014: SpineArt “Road Show”; presentation to surgeons on the indications, complications, and results of interspinous fusion for lumbar disc degeneration; Brazil and Argentina

Oct 2014: SpineArt Presentation to Distributors, Chicago, IL; “The Role of interspinous fixation in the surgical treatment of lumbar degenerative conditions

Sept 2014: Yale Clinical Neuroscience Grand Rounds, “The role of interspinous fixation in the surgical treatment of lumbar degenerative conditions”

June 2014: Spine Paris: Podium Presentation, “Future of Minimally Invasive Interbody Fusions”; World Congress of Minimally Invasive Spine Surgery

June 2014: International Surgeon User Group, Paris, France: Use of interspinous fusion devices in degenerative lumbar disc disease

October 2013: EuroSpine: Industry Sponsored Luncheon Seminar, Liverpool, UK: Interspinous Fusion: Philosophy, Indications, Early Results

April 2013: International Surgeon User Group, Miami, FL: Use of interspinous fusion devices in degenerative lumbar disc disease

March 2013: RiseUp Fundraiser for Spinal Cord Injury, New London, CT: keynote speaker

February 2013: International Surgeon User Group, Geneva, Switzerland: Use of interspinous fusion devices in degenerative lumbar disc disease

April 2012: International Surgeon User Group, Miami, FL: Use of interspinous fusion devices in degenerative lumbar disc disease

January 2012: Nursing Education Series, Brain Tumors

January 2011: Nursing Education Series, ICP Monitoring

4/10, 9/09, 9/08: Community Outreach, Lumbar Fusion and X-stop

January 2005: Forever Young Fundraiser for Spinal Cord Injury, Mohegan Sun, Uncasville, CT: keynote speaker

**PUBLICATIONS**

**Peer-Reviewed Articles**:

Doherty P, Welch A, Tharpe J, et al. Transforaminal Lumbar Interbody Fusion with Rigid Interspinous Process Fixation: A Learning Curve Analysis of a Surgeon Team’s First 74 Cases. Cureus 9(5): e1290. May 30, 2017.

Doherty PF, Rabinowitz RP. Gunshot wounds to the head: The role of antibiotics. *Infections In Medicine* 21: 297-300, 2004.

Chin LS, Murray SF, Harter DH, Doherty PF, Singh SK. Sodium vanadate inhibits apoptosis in malignant glioma cells: a role for Akt/PKB. *Journal of Biomedical Science* 6(3): 213-218, 1999.

Murray SF, Doherty PF, Singh SK, Chin LS. K252a induces cell cycle arrest and apoptosis by inhibiting Cdc2 and Cdc25c. *Cancer Investigations* 17(6): 391-395, 1999.

Harter, DH; Doherty PF, Chin LS. Current concepts of apoptosis. *Neurosurgical Focus 3*: Article 6, 1997.

Doherty PF, Stein SC, White R. Bilateral synovial cysts of the thoracic spine: A case report. *Surgical Neurology* 39:279-281, 1993.

**Abstracts/Posters**:

Doherty PF, Feng HF. Treatment of spinal cord injury with 10 kHz spinal cord stimulation; North American Neuromodulation Society, 23rd Annual Meeting, Las Vegas, NV; January 2020

Doherty PF, Feng HF. Adopting new technologies to improve pain management; 2019 Safety, Quality and Experience Conference, New Haven, CT; June 2019

Doherty PF, Feng HF. Successful pain control with High-Frequency SCS (HF-SCS) for non-operable severe scoliosis associated back pain; North American Neuromodulation Society, 22nd Annual Meeting, Las Vegas, NV; January 2019

Doherty PF, Feng HF. Resolution of foot drop with high frequency spinal cord stimulation (HF-SCS) at 10 Khz: A case report; North American Neuromodulation Society, 21st Annual Meeting, Las Vegas, NV; January 2018

Doherty, PF, Feng HF. Resolution of foot drop with high frequency spinal cord stimulation (HF-SCS) at 10 Khz: A case report; International NeuroStimulator 13th World Congress, Edinburgh, Scotland; May 2017

Doherty, PF, Butler K. Clinical Utility of Utilizing the Short Head of the Biceps Femoris and the Tibialis Posterior in Triggered EMG for L5 Pedicle Screw Placement in an Intraoperative Setting; Proceedings of the American Association of Neuromuscular & Electrodiagnostic Medicine; September, 2016.

Doherty, PF, Welch AS. Is there a learning curve in 1- and 2- level Transforaminal Lumbar interbody fusion with interspinous fixation; AANS Annual Meeting, Washington, DC; May 2015

Doherty, PF, Welch AS. 1- and 2- Level Transforaminal Lumbar Interbody Fusion with Interspinous Process Fixation: Is there a Learning Curve? A 74 Patient Case Series. Global Forum, Society for Minimally Invasive Spine Surgery. Miami, FL; September 19-21, 2014.

Doherty PF, Murray SF, Chin LS. K252a inhibits proliferation and kinase activity in explanted human glioblastoma multiforme cells. *Proceedings of the Congress of Neurological Surgery*. New Orleans, LA; October, 1997.

Doherty PF, Murray SF, Chin LS. Rapamycin inhibits cell cycle progression in malignant glioma cells lines. *Proceedings of the American Association of Cancer Research* 38. San Diego, CA; April 12-16, 1997.

Murray SF, Doherty PF, Castellani RJ, Chin LS. K252a causes cell cycle arrest in malignant glioma cells. *Proceedings of the American Association of Cancer Research* 38. San Diego, CA; April 12-16, 1997.

Doherty PF, Zitnay KM, Chin LS. Rapamycin inhibits cellular proliferation and cellular invasion in malignant glioma cells. *Proceedings of the American Association of Neurological Surgeons*. Denver, CO; April 12-17, 1997.

**Book:**

Deciphering Groin and Pelvic Pain: The Interplay between Sports Hernia, Athletic Pubalgia, and Pelvic Floor Dysfunction. Mark Zoland. Contributing Authors: Devon Klein, MD; Joseph Iraci, MD; Srino Bharam, MD; Patrick Doherty, MD; 2020

**REFERENCES**: Furnished upon request.