

CURRICULUM VITAE

JAMES J. LYNCH MD, FACS, FAANS
Chairman / CEO of SpineNevada

SpineNevada is a division of
IXE Healthcare Group.

October 2018

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PERSONAL INFORMATION

NAME	James Joseph Lynch
PLACE OF BIRTH	New York
NATIONALITY	American
WORK ADDRESS & ADDRESS FOR CORRESPONDENCE	SpineNevada 9990 Double R Blvd, Suite 200 Reno, Nevada 89521 Tel: 775-348-8800 Fax: 775-348-8818

EDUCATION

MEDICAL SCHOOL

Trinity College Medical School 1984-1991
University of Dublin
Dublin

QUALIFICATIONS

MB, BCh, BAO (Trinity College, Dublin) June 1991
MA (Trinity College, Dublin) Dec 1991
Foreign Medical Graduate Examinations Jan 1993
FRCSI Part A (Dublin) Feb 1993
FRCSI Part B (Dublin) June 1995
American Board of Neurological Surgery written examination April 1998
American Board Certified Neurological Surgeon June 2007

HONORS & AWARDS

Full Academic Scholarship: Trinity College Medical School, Dublin

Honors: - Anatomy, Biochemistry, Chemistry Embryology, Ophthalmology.

Best Doctors Award: The Best Doctors in America 2007-2008

Becker's: Top 10 Spine Surgeons to Know - 2009

Becker's: Top 50 Spine Surgeons & Specialists to Know - 2010

Becker's: Top 100 Spine Surgeons & Specialists to Know - 2011

Becker's: Top 200 Spine Surgeons & Specialists to Know – 2012

Becker's: 176 Physician Leaders in the Ambulatory Surgery Center Industry - 2012

Becker's: 102 Surgeons Focused on Spine Surgery Research - 2013

Becker's: Annual Spine Leadership Award – 2013

Becker's: 92 Spinal Surgeon Device Inventors & Innovators to Know – 2013

The Leading Physicians of the World: Top Neurological Surgeon in Nevada - 2013

Consumer Council of America: America's Top Neurosurgeons 2007 – 2013

High Fives Foundation: Inaugural Community Five Award - 2014

Becker's: 101 Physician Leaders to Know in the ASC Industry – 2014

Becker's Spine Review: Spine Surgeons to Know - 2014

Becker's Spine Review: 20 Spine Surgeons Leading ASCs - 2014

Becker's Spine Review: 36 Spine Surgeons Performing Artificial Disc Replacement - 2014

Becker's ASC Review: Physician Leaders to Know in ASC Industry - 2014

Becker's: 156 ASC industry physician leaders to know – 2015

Becker's Spine Review: Spine Surgeon Leader to Know - 2015

Becker's: 164 ASC industry physician leaders to know – 2016

Becker's Spine Review: 334 Spine Surgeons to Know, 2016

Becker's: 181 ASC industry physician leaders to know – 2017

APPOINTMENTS

1. Consultant Neurosurgeon/ Spinal Surgeon
SpineNevada
9990 Double R Blvd., Suite 200
Reno, NV 89521
2. Chairman/CEO and Founder
SpineNevada
9990 Double R Blvd., Suite 200
Reno, NV 89521
3. Chief of Neurosurgery - 2004 - 2010
St. Mary's Hospital
235 West 6th Street
Reno, Nevada
4. President/CEO and Chairman
Surgical Center of Reno
343 Elm St
Reno, NV 89502
St. Mary's Hospital Campus
5. Director of Spine Surgery
Surgical Center of Reno
6. Director of Spine Program
Regent Surgical Health
Developing Ambulatory Surgical Centers and Specialty Hospitals
7. Medical Director
High Fives Foundation
Non-Profit Organization for Cord Injuries
8. Board Member High Fives Organization

PREVIOUS

Neurosurgical International Fellowship

Mayo Clinic, USA

June 1993-June1994

Neurosurgical Residency

Mayo Clinic, USA.

June 1994 - June 2000

Clinical & Research Spine Fellowship

1. The National Hospital for Neurology and Neurosurgery, Queen Square

2. The Royal National Orthopaedic Hospital, London

3. Great Ormond Street Children's Hospital

Supervisor: Prof. Alan Crockard

July 1998 - June 1999

Spine Fellowship

Mayo Clinic

July 1999 - June 2000

Clinical & Research Spine Fellow

Department of Neurosurgery, Barrow Neurological Institute

Supervisors: Volker Sonntag MD, Curtis Dickman MD

Phoenix, Arizona, USA

July 2000 - June 2001

Spinal Surgeon / Neurosurgeon

Sierra Neurosurgery Group

85 Kirman Ave

Reno, NV 89502

July 2001-July 2004

OTHER

Medical House Officer, St. James' Hospital, Dublin

July 1991 - Dec 1991

Surgical House Officer, St. James' Hospital, Dublin

Jan 1992 -June 1992

Neurosurgical Visiting SHO, Royal Victoria Hospital, Belfast

July 1992 - Sept 1992

Anatomy Demonstrator, Trinity College, Dublin Sept 1992 - May 1993

MEMBERSHIPS

Joint Section AANS I CNS Spine and Peripheral Nerve

SMISS – Society Minimally Invasive Spine Surgery

Fellow American Association of Neurological Surgeons

SOLAS – Society of Lateral Access Surgeons

Congress of Neurological Surgeons

Fellow Royal College Surgeons

North American Spine Society

American Medical Association

Mayo Alumni Association

Trinity College Alumni

RESEARCH PUBLICATIONS

RESEARCH EXPERIENCE

Spinal Research Fellowship

The National Hospital for Neurology and Neurosurgery
Queen Square, London
Supervisor: Prof. Alan Crockard
July 1998 - June 1999

1. A prospective study of a posterior rod implant (CerviFix) to facilitate complex cervical reconstruction.
2. A retrospective study of a ten-year experience with the extreme lateral approach to the skull base.
3. A case report on endovascular coil treatment of an arterio-venous fistula resulting from CI-2 transarticular screws.
4. Book chapters on Primary Bone Disease of the Skull Base, Maxillotomy and Extended Maxillotomy, and Transoral Approaches.

Clinical and Biomechanical Research Fellowship

Barrow Neurological Institute &
Spinal Biomechanics Research Laboratory
Phoenix, Arizona
Supervisors: Volker KH Sonntag MD and Curtis Dickman MD
July 2000 - June 2001

"A biomechanical evaluation of an instrumentation system using C1 lateral mass screw fixation as a segment-saving procedure".
Published in Spine 2005

Principal Clinical Investigator

Bryan Artificial Disc Prosthesis IDE Study – Medtronic
Reno site
May 2003-present

PEER-REVIEWED PUBLICATIONS

1. Duke DA, **Lynch JJ**, Ebersold MJ: Venous air embolism in sitting and supine patients undergoing vestibular schwannoma resection.
Neurosurgery 42; 6: 1282-1287, 1998
2. **Lynch JJ**, Parvizi J, Scheithauer BW, Krauss WE: Development of postoperative fibromatosis after resection of an intraspinal meningioma.
Journal of Neurosurgery (Spine 1) 90:121-124, 1999
3. **Lynch JJ**, Valentine AR, Kitchen ND, Crockard HA: Endovascular coil treatment of an arteriovenous fistula from C 1 M2 transarticular screws.
Submitted to Journal of Neurosurgery
4. Leavitt JA, **Lynch JJ**, Meyer FB: Trochlear nerve palsy associated with temporal lobectomy and amygdalohippocampectomy: a prospective study.
Published in Neurosurgery
5. Friedman JA, **Lynch JJ**, Scheithauer BW, Raffel C: Management of mixed pineal germ cell tumors with residual mature teratoma.
Published in Neurosurgery
6. Holt JS, **Lynch JJ**, Chamberlain RH, Sonntag VK.H,: Biomechanical Comparison of Posterior Fixation Technique.
Accepted in Journal of Neurosurgery: Spine
7. Maher C, **Lynch JJ**, Meyer FB: Skull Base Fibrous Dysplasia- 82 surgical cases.
Published in Pediatric Neurosurgery
8. Bartolomei JC, Hen J, Lemole GM, **Lynch JJ**, Dickman CA, Sonntag VKS:
Stereotactic applications in Spine Surgery.
BNI Quarterly 17:1-6
9. Christensen DM, Eastlack RK, **Lynch JJ**, Yaszemski MJ, Currier BL: C1 anatomy and dimensions relative to lateral mass screw placement.
Spine 32:844-848, 2007
10. Hott JS, **Lynch JJ**, Chamberlain RH, Sonntag VK, Crawford NR: Biomechanical comparison of C1-2 posterior fixation techniques.
J Neurosurg Spine 2:175-181, 2005

PUBLICATIONS IN PREPARATION

9. Casey ATH, Lynch JJ, Taylor BA, Crockard HA: A posterior rod implant system that facilitates complex cervical reconstruction - a prospective study of 100 cases.
In preparation for Journal of Neurosurgery

10. Cohen A, Lynch JJ, Krauss WE: Synovial cysts of the thoracic spine.
In preparation for Neurosurgery

11. Dixon G, Lynch JJ, Perkins WJ, Meyer FB: Hyperfibrinolysis complicating removal of a central neurocytoma. Case Report
In preparation for Journal of Neurosurgery

ABSTRACTS

12. Duke DA, Lynch JJ, Ebersold MJ: Venous air embolism in sitting and supine patients undergoing vestibular schwannoma resection.
Congress of Neurological Surgeons, Annual Meeting
New Orleans, September 30, 1997. *Neurosurgery* 1997;41:3
13. Lynch JJ, Duke DA, Ratfel C: Management of mixed pineal germ cell tumors with residual mature teratoma.
Congress of Neurological Surgeons, Annual Meeting
New Orleans, September 30, 1997. *Neurosurgery* 1997;41:3
14. Lynch JJ, Leavitt JA, Duke DA, Meyer FB: Trochlear nerve palsy associated with temporal lobectomy and amygdalohippocampectomy: a prospective study
Congress of Neurological Surgeons, Annual Meeting
Seattle, October 3, 1998. *Neurosurgery* 1998;43 (3):692
12. Lynch JJ, Duke DA, Meyer FB: Skull base fibrous dysplasia, 82 cases - The Mayo Clinic experience.
North American Skull Base Society, Annual Meeting
Hawaii, February 18, 1998. *Skull Base Surgery* 1998;8(1):25
13. Lynch JJ, Duke DA, Krauss WK.: Remote development of cervicomedullary dysfunction after untreated odontoid type 11 fractures
North American Spine Society, Annual Meeting
San Francisco, October 29, 1998
Proceedings 13th Annual North American Spine Society 1998: 1 08
14. Lynch JJ, HA Crockard. The extreme lateral approach to the craniovertebral junction: a ten-year experience, with 55 cases.
North American Skull Base Society, Tenth Annual Meeting
Chicago, May 29, 1999. *Skull Base Surgery* 1999, 9(1):22
15. Allibone JB, Lynch JJ, Cheeseman A, Powell M. Mid-face degloving approach to the skull base.
North American Skull Base Society, Tenth Annual Meeting
Chicago, May 29, 1999. *Skull Base Surgery* 1999, 9(1):2

PRESENTATIONS

1. **Lynch JJ**. Carotid Body Tumors. AANN Mississippi Basin Chapter
Rochester, March 12, 1996
2. **Lynch JJ**. Spinal Meningiomas: A Review. AANN Mississippi Basin Chapter
Rochester, January 10, 1997
3. Duke DA, **Lynch JJ**, Ebersold MJ: Venous Air Embolism in Sitting and Supine
Patients Undergoing Vestibular Schwannoma Resection. (Poster)
Congress of Neurological Surgeons, Annual Meeting
New Orleans, September 30, 1997
4. **Lynch JJ**, Duke DA, Raffel C: Management of Mixed Pineal Germ Cell Tumors with
Residual Mature Teratoma. (poster)
Congress of Neurological Surgeons, Annual Meeting New Orleans
September 30, 1997
5. **Lynch JJ**, Duke DA, Meyer FB: Skull Base Fibrous Dysplasia, 82 Cases - The Mayo
Clinic Experience.
International Skull Base Meeting - North American Skull Base Society Meeting Hawaii,
February 18, 1998
6. **Lynch JJ**, Meyer FB: Treatment of Low Grade Glioma Utilizing Awake Cortical
Mapping and Neuronavigation
North Central Cancer Treatment Group (NCCTG) meeting
Rochester, April 18, 1998
7. **Lynch JJ**, Leavitt JA, Duke DA, Meyer FB: Trochlear Nerve Palsy Associated with
Temporal Lobectomy and Amygdalohippocampectomy A Prospective Study.
The Congress of Neurological Surgeons, Annual Meeting
Seattle, October 3, 1998
8. **Lynch JJ**, Duke DA, Krauss WK: Remote Development of Cervicomedullary
Dysfunction After Untreated Odontoid Type II Fracture.
North American Spine Society, Annual Meeting
San Francisco, October 29, 1998
9. **Lynch JJ**, Leavitt JA, Meyer FB: Diplopia Following Anterior Temporal Lobectomy
and Amygdalohippocampectomy.
The Irish Neurology Association, Annual Meeting
Dublin, May 7, 1999

10. **Lynch JJ**, HA Crockard: Extreme lateral approach to the craniovertebral junction: a ten-year experience with 55 cases
North American Skull Base Society, Annual Meeting
Chicago, May 30, 1999
11. Allibone J, **Lynch JJ**, Cheeseman A, Powell M: Mid-face degloving approach to the skull base.
North American Skull Base Society, Annual Meeting
Chicago, May 30, 1999
12. **Lynch JJ**, Krauss WE: Synovial cysts of the thoracic spine (Poster)
Congress of Neurological Surgeons, Annual Meeting
Boston, October 30, 1999
13. **Lynch JJ**, Crockard HA: The long-term effects of the extreme lateral approach to the craniovertebral junction.
Society of British Neurological Surgeons, Annual Meeting
Cork, October I, 1999
14. **Lynch JJ**, Allibone JB, Casey ATH, Taylor BA, Crockard HA: A posterior rod implant system that facilitates complex cervical reconstruction-a prospective study of 50 cases.
Society of British Neurological Surgeons, Annual Meeting
Cork, October 3, 1999
15. **Lynch JJ**, Crockard HA: The long-term effects of the extreme lateral approach to the craniovertebral junction.
North American Skull Base Society Meeting
Phoenix, March 19, 2000
16. Crockard HA, **Lynch JJ**: The extreme lateral approach to the craniovertebral junction.
Spanish Skull Base Society
Ovieda, March 30th, 2000
17. Crockard HA, **Lynch JJ**: A posterior rod implant system that facilitates complex cervical reconstruction
Spanish Skull Base Society
Ovieda, March 30th, 2000
18. **Lynch JJ**, Crockard HA: (poster)
American Association of Neurological Surgeons, Annual Meeting
San Francisco, April 8, 2000

19. **Lynch JJ**, Allibone JB, Casey ATH, Taylor BA, Crockard HA: A posterior rod implant system that facilitates complex cervical reconstruction- a prospective study of 50 cases.
American Association of Neurological Surgeons, Annual Meeting
San Francisco, April 8, 2000
20. Crockard HA, **Lynch JJ**: Experience of occipitocervical fusion in complex deformity and tumor with CerviFix system.
Ninth Annual Conference of Neurosurgical Techniques and Tools
Nagoya, Japan April 21_22ud, 2000
21. Crockard HA, **Lynch JJ**: The long-term effects of the extreme lateral approach to the craniovertebral junction.
Ninth Annual Conference of Neurosurgical Techniques and Tools
Nagoya, Japan April 21_22ud, 2000
22. Christensen D, **Lynch JJ**, Yaszemski MJ, Currier BL: C1 Anatomy and dimensions relative to lateral mass screw placement.
Minnesota Orthopedic Society Meeting
Minneapolis, May 12, 2000
23. **Lynch JJ**, Christensen D, Yaszemski MJ, Currier BL: C1 Anatomy and dimensions relative to lateral mass screw placement.
Cervical Spine Research Society Meeting
London, June 22, 2000
24. **Lynch JJ**, Allibone JB, Casey ATH, Taylor BA, Crockard HA: A posterior rod implant system that facilitates complex cervical reconstruction- a prospective study of 50 cases.
Cervical Spine Research Society Meeting
London, June 22, 2000

Recent Work

1. Sekhon LHS, Sears W and Lynch JJ: Surgical management of traumatic thoracic spondyloptosis: review of 2 cases. (in press: *J Clin Neurosci*)
2. Lynch JJ, Sekhon LHS, Anderson MD, Riew KD, Haid RW, Heller JG, Duggal ND and Seex K: MR imaging clarity of the Bryan, Prodisc-C, Prestige LP and PCM cervical arthroplasty devices. *Proceeds of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves 22nd Annual Meeting*, Orlando, FL, CA, U.S.A., March 15th- 18th, 2006
3. Sekhon LHS, Anderson MD, Lynch JJ, Riew KD, Haid RW, Heller JG, Duggal ND and Seex K: MR imaging clarity of the Bryan, Prodisc-C, Prestige LP and PCM cervical arthroplasty devices. *Proceeds of the North American Spine Society 21st Annual Meeting*, Seattle, WA, U.S.A., September 2006
4. Sekhon LHS, Anderson MD, Lynch JJ, Riew KD, Haid RW, Heller JG, Duggal ND and Seex K: MR imaging clarity of the Bryan, Prodisc-C, Prestige LP and PCM cervical arthroplasty devices. *Proceeds of European Cervical Spine Research Society Meeting*, Berlin, Germany, 2006
5. Sekhon LHS, Anderson MD, Lynch JJ, Riew KD, Haid RW, Heller JG, Duggal ND and Seex K: MR imaging clarity of the Bryan, Prodisc-C, Prestige LP and PCM cervical arthroplasty devices. *Proceeds of Congress of Neurological Surgeons Annual Meeting*, Chicago, Illinois, 2006
6. Sekhon LHS, Anderson MD, Lynch JJ, Riew KD, Haid RW, Heller JG, Duggal ND and Seex K: MR imaging clarity of the Bryan, Prodisc-C, Prestige LP and PCM cervical arthroplasty devices. (*submitted Spine*)

BOOK CHAPTERS

1. **Lynch JJ**, Crockard HA: Primary Bone Disease of the Skull Base. In: Robertson J, Robertson J, Cockharn H (eds): Cranial Base Surgery- Management, Complications and Outcome. Churchill Livingstone, New York 1999
2. **Lynch JJ**, Crockard HA: Surgery of Clival Cartilagenous Tumors- Maxillotomy and Extended Maxillotomy. In: Harsh G, Janecka I, Ojemann R (eds): Chordomas and Chondrosarcomas. Thieme, New York 2003

COURSES ATTENDED

Midas Rex Workshop

Mayo Clinic
Rochester, June 1994

Spinal Endoscopy Course

North American Spine Society, Annual Meeting
San Francisco, October 1998

Cervical Spine Stabilization for Deformity and Tumors- Master class

The Royal College of Surgeons of England
London, November 1998

Interbody Spinal fusion of the Lumbar and Cervical Spine Course

AANS ICNS Joint Section on Disorders of the Spine meeting
Orlando, February 1999

Total Spine: Advanced Concepts and Constructs Course

Mexico, March 1999

Practice Management Course

Mexico, March 1999

Approaches to the Thoracic and Lumbar Spine- Master class

The Royal College of Surgeons of England
London, March 1999

Comprehensive Spine Course

AO Synthes Spine Course

Mexico, April 1999

Approaches to the Skull Base- Master class

The Royal College of Surgeons of England
London, April 1999

Skull Base Approaches- Practical Course

North American Skull Base Society, Annual Meeting
Chicago, May 1999

Image -Guided Spinal Navigation -Practical Course

Congress of Neurological Surgeons, Annual Meeting
Boston, October 1999

Minimally Invasive Techniques for the Lumbar Spine - Practical Course

Congress of Neurological Surgeons, Annual Meeting
Boston, October 1999

Concepts in Interbody fusion- Anatomical Course

AO / Synthes Spine
Minneapolis, October 1999

Thorascopic Spinal Surgery Course

Barrow Neurological Institute
Phoenix, September 2000

SMISS Course

Las Vegas, November 2013

FACULTY MEMBER AT COURSES

Cervical Spine Instrumentation Hands-on Course

AO/Synthes
London, April 1999

Spine and Craniofacial Workshop

AO/ Synthes
Rochester, October 1999

Thorascopic Spinal Surgery – Master class

Attending as Faculty
The Royal College of Surgeons of England
London, May 2000

Cervical Spine

Anterior, Posterior
San Diego, Sept 2003,

Cervical Spine Society

Resident/Fellows
Chicago, May 2004

Becker's Spine, Neurosurgery and Pain Management

Speaker –

- Turning Around an ASC – Tested Methods for Financial Improvement Case Studies and Analytical Tools
- How a Higher Acuity Neurosurgery/Spine Program can Achieve Wonderful Clinical and Financial Results for an ASC. Chicago, June 2007.

Becker's Ambulatory Surgery Center Conference & Exhibits

Speaker – Using Spine and Bariatrics as the Cornerstone of a Thriving ASC Chicago, October 2007.

Becker's Spine, Orthopedic & Pain Management-Driven ASC Conference: Improving Profits, Business and Legal Issues

Speaker – Spine Surgery as a Core Driver in Multispecialty ASC. Chicago, June 2008.

Becker's Spine, Orthopedic & Pain Management-Driven ASC Conference: Improving Profitability and Business and Legal Issues

Speaker – Key Concepts to Improve the Profitability of Spine Programs. Chicago, June 2010.

Becker's Spine, Orthopedic & Pain Management-Driven ASC Conference: Improving Profitability and Business and Legal Issues

Speaker – The Next Five Years. Chicago, June 2011.

Becker's Orthopedic, Spine and Pain Management Driven ASC Conference:

Keynote panelist — "What Will Healthcare Reform Mean for Orthopedics, Spine, Pain Management and ASCs"

Speaker — "Quantum shift needed in orthopedic and spinal implant strategy" Chicago, June 2013.

Becker's Spine, Orthopedic & Pain Management-Driven ASC Conference: The Business of Spine

Keynote panelist – "What Does the Sunshine Act Mean for Orthopedic and Spine Surgeons"

Speaker — "Key Evolutions in the Device Arena" Chicago, June 2014.

Becker's Spine, Orthopedic & Pain Management-Driven ASC Conference + The Future of Spine

Keynote panelist on "ASCs, Orthopedics and Spine: The Next Five Years." Chicago, June 2015.

Becker's Spine, Orthopedic and Pain Management-Driven ASC Conference + The Business of Spine

Keynote panelist on "Independence, healthcare business & outpatient spine — 4 spine surgeons discuss the next 5 years" Chicago, June 2016.

Becker's Spine, Orthopedic and Pain Management-Driven ASC Conference + The Future of Spine

Keynote panelist on "ASC's, Orthopedics and Spine: The Next Five Years". Chicago, June 2017.

REFEREES

1. **Volker K.B. Sonntag, MD, FAANS**
Professor of Neurosurgery
Barrow Neurological Institute 2910 N. Third Avenue Phoenix, Arizona, 85013
- 602-406-3458

2. **H. Alan Crockard, FRCS**
Consultant Neurosurgeon Department of Surgical Neurology The National
Hospital for Neurology and Neurosurgery Queen Square
London WC1N 3BG
Tel: 44 171 8298714
Fax: 44 171 813 1138

3. **David G. Piepgras, MD, FAANS**
Professor of Neurosurgery
Mayo Clinic
Rochester, Minnesota, 55901 - 507-284-2511

4. **Frederic Meyer, MD, FAANS**
Professor of Neurosurgery
Mayo Clinic
Rochester, Minnesota, 55090 - 507-284-2511