**Curriculum Vitae**

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| **Date Prepared:** | August 8, 2017 |
| **Name:** | Omar El Abd, MD |
| **Office Address:** | Newton Wellesley Interventional Spine, LLC378 Washington St Wellesley MA 02481  |
| **Work Phone:**  | 781-489-5541 |
| **Work FAX:** | 781-489-5340 |
| **Place of Birth:** | Prague, Czech Republic |

[Education](http://cv.hms.harvard.edu/index.php?page=education)

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| 1989 | General Certificate of Education  | Sciences | London University London, England |
| 1995 | Bachelor | Medicine | Cairo University School of Medicine |

[Postdoctoral Training](http://cv.hms.harvard.edu/index.php?page=postdoc)

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| 1996-1997 | Intern | Rotational | Cairo University Hospitals |
| 1998-1999 | Intern | Internal Medicine  | Wyckoff Heights Medical Center, Cornell University |
| 1999- 2002  | Resident | Physical Medicine and Rehabilitation | Montefiore Medical Center/Albert Einstein College of Medicine |
| 2001- 2002 | Chief Resident | Physical Medicine and Rehabilitation | Montefiore Medical Center/Albert Einstein College of Medicine |
| 2002- 2003  | Fellow | Interventional Spine | University of Pennsylvania |

[Faculty Academic Appointments](http://cv.hms.harvard.edu/index.php?page=academic_appt)

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| 9/1/2011- 1/14/2013 | Assistant Professor | Physical Medicine and Rehabilitation  | Harvard Medical School |
| 2003- 2011  | Instructor | Physical Medicine and Rehabilitation  | Harvard Medical School |

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| 2002- 2003 | Clinical Instructor  | Physical Medicine and Rehabilitation   | University of Pennsylvania |
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[Appointments at Hospitals/Affiliated Institutions](http://cv.hms.harvard.edu/index.php?page=hospital_appt)

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| 2003- 2014 | Clinical Associate | Physical Medicine and Rehabilitation | Spaulding Rehabilitation Hospital |
| 2003- 2014 | Clinical Associate  | Physical Medicine and Rehabilitation  | Massachusetts General Hospital |
| 2003- Present  | Clinical Associate  | Internal Medicine/PM&R Division  | Newton-Wellesley Hospital |

[Major Administrative Leadership Positions](http://cv.hms.harvard.edu/index.php?page=admin)

Local

2014- Director Newton Wellesley Interventional Spine, LLC

Present

2014- Director Interventional Pain Dedham Medical Associates

2016

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| 2005- 2014  | Interventional Spine Director | The Spine Center at Newton-Wellesley Hospital, a collaboration of Massachusetts General Hospital and Newton-Wellesley Hospital  |
| May 4, 2007 | Co-director for Low Back Pain for Primary Care Physician CME course sponsored by Harvard Medical School | Newton MA |
| February 27, 2010 | Director Interventional Spine Course for Spaulding Rehabilitation Hospital PM&R residents | Spaulding Rehabilitation Hospital  |
| February 26, 2011March10, 2012 | Director Interventional Spine Course for Spaulding Rehabilitation Hospital PM&R residentsDirector Interventional Spine Course for Spaulding Rehabilitation Hospital PM&Rresidents | Spaulding Rehabilitation Hospital Spaulding Rehabilitation Hospital |
| February23, 2013**National** | Director Interventional Spine Course for Spaulding Rehabilitation Hospital PM&Rresidents | Spaulding Rehabilitation Hospital |
| November 23, 2008 | Director, Prevention of Spine Interventions Complications courseAmerican Academy of Physical Medicine and Rehabilitation 69th Annual Assembly | San Diego CA |
| October 7, 2009 | Director, Prevention of Spine Interventions Complications course. American Academy of Physical Medicine and Rehabilitation 70th Annual Assembly | Austin TX |
| November 5, 2010 | Director, Minimizing Spine Interventions Complications course. American Academy of Physical Medicine and Rehabilitation 71st Annual Assembly | Seattle WA |
| **International** |  |  |
| May 15, 2009 | Director, Prevention of Spine Interventions Complications course. International Society of Physical and Rehabilitation Medicine | Istanbul, Turkey |

[Professional Societies](http://cv.hms.harvard.edu/index.php?page=societies)

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| 1999- Present | American Academy of Physical Medicine and Rehabilitation2000- 2002 | MemberVice-Chairman, Communication Committee Physician Council |
| 1999- 2002 | New York Society of Physical Medicine and Rehabilitation | Member |
| 2000 | Physiatric Association of Spine, Sports and Occupational Rehabilitation | Member |
| 2001 | American Association of Electrodiagnostic Medicine | Member |
| 2009 | International Society of Physical and Rehabilitation Medicine | Member |

2013- Present Massachusetts Medical Society Member

2017-Present European Society of Regional Anesthesia Member

[Editorial Activities](http://cv.hms.harvard.edu/index.php?page=editorial)

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| 2002-2003 Pain Physician2013 The American Journal of Physical Medicine & Rehabilitation |
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[Honors and Prizes](http://cv.hms.harvard.edu/index.php?page=honors)

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| April 29, 2008November 20, 2011January 2012 | Achievement AwardBest Musculoskeletal Research PresentationPartners in Excellence Award | The Egyptian Society of Back PainAmerican Academy of PM&RPartners Health Care |  |

November Partners in Excellence Partners Health Care

2013 Award

November Top Doctors PMR South Shore Living Magazine

2015

2015 Top Doctors PMR Castle Connolly Top Doctors

2016 Top Doctors PMR Castle Connolly Top Doctors

November Top Doctors PMR South Shore Living Magazine

2016

2017 Top Doctors PMR Castle Connolly Top Doctors

November Top Doctors PMR South Shore Living Magazine

2017

December Top Doctors PMR Boston Magazine

2017

**Report of Local Teaching and Training**

[Formal Teaching of Residents, Clinical Fellows and Research Fellows (post-docs)](http://cv.hms.harvard.edu/index.php?page=residents)

|  |  |  |
| --- | --- | --- |
| Jan 6, 2004 | Musculoskeletal Lecture PM&R Residents | SRHSingle lecture |
| January 3, 2006 | Functional Spine AnatomyPM&R Residents | SRHSingle lecture |
| January 3, 2006 | Interventional Spine ProceduresPM&R Residents | SRHSingle lecture |
| April 4, 2007 | Spine AnatomyPM&R Residents | SRHSingle lecture |
| April 30, 2009 | Interventional Spine Physiatry Orthopedics Residents | NWHSingle lecture |
| February 27, 2010 | Hands-on Intradiscal Procedures PM&R residents | SRHSingle lecture |
| February 26, 2011March,10, 2012February23, 2013 | Hands-on Intradiscal Procedures PM&R residentsHand-on Intradiscal ProceduresPM&R residentsHand-on Intradiscal ProceduresPM&R residents | SRHSingle lectureSingle lectureSRHSingle LectureSRH |

[Clinical Supervisory and Training Responsibilities](http://cv.hms.harvard.edu/index.php?page=clinical)

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| 2004- 2014 | Elective Harvard PM&R residency rotations | Interventional Spine Rotation |
| August 2009- 2014 | In charge of Spine Education to PM&R Residents | Spine Curriculum |

[Formally Supervised Trainees](http://cv.hms.harvard.edu/index.php?page=trainees)

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| August 2010-2011 | Mentor for post-doc clinical fellowship for 2 Post-Docs | Clinical investigation on Spine Injections complications |

[Formal Teaching of Peers (e.g., CME and other continuing education courses)](http://cv.hms.harvard.edu/index.php?page=peers)

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| March 4, 2007 | Low Back Pain for Primary Care Physician CMEcoursesponsored by Harvard Medical School  | Newton-Wellesley Hospital |
| March 7, 2009 | The Painful Neck: Common Presentations, patients vignettes Evaluation and Treatment of Neck and Low Back Pain Course  | Single lectureNewton Wellesley Hospital, Newton MA |
| March 7, 2009  | Common Diagnoses, Cervical Sprains and StrainsEvaluation and Treatment of Neck and Low Back Pain Course  | Single lectureNewton Wellesley Hospital, Newton MA |
| October 19, 2010 | Appropriate Imaging: A Network Discussion Partners Community Healthcare, Inc | Panelist, education programNewton MA |

[Local Invited Presentations](http://cv.hms.harvard.edu/index.php?page=presentations_local)

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| May 23, 2000 | Cervical Spondylotic Myelopathy Review/Grand RoundsMontefiore Medical Center, Bronx, NY |
| November 28, 2000 | Electrodiagnosis in Lumbosacral Radiculopathy and Plexopathy*/*Grand RoundsMontefiore Medical Center, Bronx, NY |
| November 30, 2005  | Interventional Spine Physiatry/Grand RoundsNewton Wellesley Hospital, Newton, MA |
| March 6, 2009  | Advances In Interventional Spine Physiatry/ Grand RoundsSpaulding Rehabilitation Hospital, Boston MA |
| June 24, 2009 | Spine Endoscopy/Orthopedics Grand Rounds Newton Wellesley Hospital, Newton MA |
| September 2, 2009 | Spine Endoscopy/Combined Medical/Surgical Grand Rounds Newton Wellesley Hospital, Newton MA |
| September 16, 2009 | Interventional Spine for Radiology Technologists/Invited lectureNewton Wellesley Hospital, Newton MA |
| March 16, 2010 | Spine Team Work Lecture, Spaulding outpatient lecture series/Invited lectureSpaulding Wellesley, Wellesley MA |
| April 20, 2011 | Spine Interventions Lecture, Spaulding Outpatient CenterSpaulding Framingham, Framingham MA |

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| October 21, 2014 | Grand Round, Sports and Physical Therapy yearly meeting , Needham MASpine Management Algorithm |

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| October 9, 2014 | NWH Family Medicine Pod Meeting Round on Spine Imaging |
| March 17, 2015 | Harvard Vanguard Wellesley Internal Medicine Grand Round Spine Imaging |

**Projects: Unfunded research**

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| 2010-2012 | Lead investigator, Prospective study including 150 subjects evaluating immediate complications of transforaminal epidural injections using dexamethasone. Status: Study published Pain Physician 2015 May-Jun;18(3):277-86. |
| 2010-2012 | Lead investigator, Prospective study comparing vascular detection in transforaminal epidural injections between conventional methods and digital subtraction.Status: Study accomplished, accepted as a poster presentation in AAPMR 2011, selected in best musculoskeletal research section, study published 2014 Jan-Feb;17(1):21-7. |
| 2010-2012 | Lead investigator, Prospective study evaluating perineal pruritis after transforaminal epidural steroid injections with dexamethasoneStatus: Study accomplished, accepted as a poster presentation in AAPMR 2011, currently under editing for journal submission |
| 2010-2012 | A study comparing radiation exposure to the spine interventionalist with the use of a full lead shield vs under the table lead skirt protection, accepted as a poster presentation AAPMR 2012.  |

**Report of Regional, National and International Invited Teaching and Presentations**

[Invited Presentations and Courses](http://cv.hms.harvard.edu/index.php?page=presentations)

Regional

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| --- | --- |
| June 25, 2003 | Side effects and complications following Nucleoplasty®/Invited lectureUniversity of Pennsylvania, Department of Rehabilitation MedicineThird annual research day |
| June 25, 2003 | Preliminary Outcomes of Percutaneous Decompression Utilizing Coblation® for the Treatment of Axial Low Back Pain/Invited lectureUniversity of Pennsylvania, Department of Rehabilitation MedicineThird annual research day |
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National

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| October 9, 2003 | The Prevalence of Abdominal and Inguinal Pain in Patients with Internal Disc Disruption Syndrome. PASSOR Annual Meeting Research Forum, Chicago, IL. |
| September 28, 2007September 30, 2007 | Symposium Chairman: Chronic Back Pain, Exploring the Role of Opioids in the Current Treatment Paradigm. Satellite Symposium concurrent with American Academy of Physical Medicine and Rehabilitation 68th Annual Assembly, Boston, MA.Cervical Spine Examination Hands On course. American Academy of Physical Medicine and Rehabilitation 68th Annual Assembly, Boston MA |
| November 22, 2008 | Cervical Spine Examination Hands On course. American Academy of Physical Medicine and Rehabilitation 69th Annual Assembly, San Diego CA |
| November 23, 2008 | Introduction and complications overview, Prevention of Spine Interventions Complications courseAmerican Academy of Physical Medicine and Rehabilitation 69th Annual Assembly, San Diego, CA |
| October 7, 2009 | Introduction and Transforaminal complications, Prevention of Spine Interventions Complications courseAmerican Academy of Physical Medicine and Rehabilitation 70th Annual Assembly, Austin, TX |
| November 5, 2010 | Introduction and Transforaminal complications, Minimizing Spine Interventions Complications courseAmerican Academy of Physical Medicine and Rehabilitation 71st Annual Assembly, Seattle, WA |
| May 17, 2011 | Minimizing Transforaminal epidural steroid injections complications, Grand round PM&R department Montefiore Medical Center, New York, NY |
| November 15, 2012 | “Low Back Pain: Clinical Evaluation And Fluoroscopic Evaluation" course approved for the 2012 American Academy of Physical Medicine and Rehabilitation Annual Assembly. |

International

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| February 16-25, 2007  | Clinical and Physician training/ Invited by the Egyptian Government El Maadi Medical Compound, Cairo, Egypt  |
| April 27-May 3, 2008  | Clinical and Physician training/Invited by the Egyptian Government El Maadi Medical Compound, Cairo, Egypt |
| May 1, 2008 | "Interventional Physiatry" The 8th Annual International Congress of The Egyptian Society of Back Pain and The third African Arab Congress of Back Pain. Cairo, Egypt |
| May 13, 2013 | Seminar of Painful Spine pathologies Medical Center University of Sarajevo.  |
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| May 13-172013 | Clinical and Physician training/ Invited by Department of PM&R Medical Center University of Sarajevo, Sarajevo Bosnia Herzegovina |
| October 15, 2014 | Interventional Spine Seminar, University of Sao Paulo Medical School, Sao Paulo Brazil Imaging for Painful Spine Conditions |

**Report of Clinical Activities and Innovations**

[Current Licensure and Certification](http://cv.hms.harvard.edu/index.php?page=licensure)

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| 2001 | New York |
| 2002 | Pennsylvania |
| 2003 | Massachusetts |
|  | American Board of Physical Medicine and Rehabilitation |
|  | Pain Medicine Board Certification |
|  | American Board of Independent Medical Examiners |

**Practice Activities**

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| Year(s) | Type of activity | Name and location of practice | Level of activity |
| 2003 - 2007 | Ambulatory Care Conservative management of painful Spinal conditions and Fluoroscopic guided Spinal Procedures | The Spine Center at Newton-Wellesley Hospital, a collaboration of Massachusetts General Hospital and Newton-Wellesley Hospital  | 9 Sessions per week (assigned to work here by the Massachusetts General Physicians Organization – MGPO; - paid by the MGPO, not by Newton-Wellesley Hospital) |
| 2003 - 2007 | Ambulatory Care Fluoroscopic guided Spinal Procedures | Spaulding Rehabilitation Hospital Boston MA | 1 Session per week |
| 2007 - 2011 | Ambulatory Care Conservative management of painful Spinal conditions and Fluoroscopic guided Spinal Procedures | The Spine Center at Newton-Wellesley Hospital, a collaboration of Massachusetts General Hospital and Newton-Wellesley Hospital  | 10 Sessions per week (assigned to work here by the Massachusetts General Physicians Organization – MGPO; - paid by the MGPO, not by Newton-Wellesley Hospital) |
| 2011-2014 | Ambulatory Care Conservative management of painful Spinal conditions and Fluoroscopic guided Spinal Procedures | The Spine Center at Newton-Wellesley Hospital, a collaboration of Massachusetts General Hospital and Newton-Wellesley Hospital  | 7 Sessions per week (assigned to work here by the Massachusetts General Physicians Organization – MGPO; - paid by the MGPO, not by Newton-Wellesley Hospital) |
| 2011-2014 | Ambulatory Care Fluoroscopic guided Spinal Procedures | Spaulding Rehabilitation Outpatient Clinic, Framingham, MA  | 3 Sessions per week |

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| 2014-Current | Ambulatory Care Fluoroscopic guided Spinal Procedures | NewtonWellesley Interventional Spine Outpatient office, Wellesley MA  | 6-7 Sessions per week |

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| 2014-Current | Ambulatory Care Fluoroscopic guided Spinal Procedures | Atrius Health Interventional Spine Outpatient Office, Dedham MA  | 3-4 Sessions per week |

[Clinical Innovations](http://cv.hms.harvard.edu/index.php?page=innovations_clin):

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| Introduced mechanical percutaneous disc decompression technology to Interventional PM&R Harvard Medical System (2005) | Intradiscal fluoroscopic guided outpatient intervention to decompress small disc protrusions without the need for open surgical discectomy for management lumbar radicular pain that fails conservative management. |
| Introduced vertebroplasty procedure to Interventional Physiatry in PM&R Harvard Medical System (2006) | Fluoroscopic guided outpatient intervention introducing bone cement in painful vertebral compression fractures to manage pain and improve function. |
| Introduced cervical discography procedures to Interventional Physiatry in PM&R Harvard Medical System (2007) | Intradiscal fluoroscopic guided outpatient procedure used for surgical planning of painful disc conditions. This procedure requires the highest skills and extensive experience in spinal procedures. |
| Introduced Sacroplasty procedure to Interventional Physiatry in PM&R Harvard Medical System (2008) | Fluoroscopic guided outpatient intervention introducing bone cement in painful sacral insufficiency fractures to manage pain and improve function. |
| Introducing spinal endoscopy for management of lumbar radiculopathy (2010) | Investigated and evaluated literature on spine endoscopic procedures for management of lumbar radiculopathy. Received hands on training in the United States and in Germany. Working currently on procedure credentialing. |

**Report of Education of Patients and Service to the Community**

[Activities](http://cv.hms.harvard.edu/index.php?page=activities)

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| June 1, 2004 | Newton Wellesley Hospital/Organizer and Lecturer community education Back talk (A team approach to back pain)  |
| October 15, 2007 | Health Source Show Wellesley Cable Access TV Station, Wellesley MA /Expert GuestOsteoporosis and Compression Fractures: Opinions for treatment |
| July 17, 2011 | Managing episodes of back and neck pain, Metrowest Daily News<http://www.metrowestdailynews.com/archive/x633527624/FLEXIBLE-FITNESS-Managing-episodes-of-back-and-neck-pain#ixzz1VBnN0gDS> |

**Report of Scholarship**

[Publications](http://cv.hms.harvard.edu/index.php?page=publications)

[Peer Reviewed Publications In Print or Other Media](http://cv.hms.harvard.edu/index.php?page=peer_review)

Research Investigations:

# El Abd OH, Amadera JD, Pimentel DC, Gomba L. Immediate and acute adverse effects following transforaminal epidural steroid injections with dexamethasone. Pain Physician. 2015 May-June;18(3):277-86.

# El Abd OH, Pimentel DC, Amadera JD. Generalized pruritus as an unusual side effect after epidural injection with dexamethasone.PM R. 2015 Feb;7(2):206-9.doi: 10.1016/j.pmrj.2014.09.012.

# El Abd OH, Amadera JD, Pimentel DC, Pimentel TSC. In response to digital subtraction angiography is not the answer for safe epidural injections. Pain Physician. 2014 May-June;17(3):E414-5.

**El Abd OH**, Amadera JD, Pimentel DC, Pimentel TSC. Intravascular flow detection during transforaminal epidural injections: A prospective study. Pain Physician. 2014 Jan-Feb;17(1):21-7

Leite VF, Buehler AM, **El Abd O**, Benyamin RM, Pimentel DC, Chen J, Hsing WT, Mazloomdoost D, Amadera JE [Anti-nerve growth factor in the treatment of low back pain and radiculopathy: a systematic review and a meta-analysis.](http://www.ncbi.nlm.nih.gov/pubmed/24452657) Pain Physician. 2014 Jan-Feb;17(1):E45-60.

Pimentel DC, **El Abd O**, Benyamin RM, Buehler AM, Leite VF, Mazloomdoost D, Chen J, Hsing WT, Amadera JE..Anti-tumor necrosis factor antagonists in the treatment of low back pain and radiculopathy: a systematic review and meta-analysis. Pain Physician. 2014 Jan-Feb;17(1):E27-44

Bhagia SM, Slipman CW, Nirschl M, Isaac Z, **El-Abd OH**, Sharps LS, Garvin C. Side effects and complications after percutaneous disc decompression using coblation technology. Am J Phys Med Rehabil 2006;85:6-13.

**Other Peer-Reviewed Publications:**

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| 1. **El Abd OH**. Cervical spondylotic myelopathy review. Phys Med Rehabil Resident 2001;10:9-10.
2. Chou LH, Slipman CW, Bhagia SM, Tsaur L, Bhat AL, Isaac Z, Gilchrist R, **El Abd OH**, Lenrow DA. Inciting events initiating injection-proven sacroiliac joint syndrome. Pain Med 2004;5:26-32.
3. Slipman CW, **El Abd OH**, Bhargava A, DePalma MJ, Chin KR. Transforaminal cervical blood patch for the treatment of post-dural puncture headache. Am J Phys Med Rehabil 2005;84:76-80.
4. Muzin S, Isaac Z, Walker J, **El Abd OH**, J Bama. When should a cervical collar be used to treat neck pain? Curr Rev Musculoskel Med 2007;1:114-9.
5. Walker J,\* **El Abd OH**,\* Isaac Z, Muzin S. Discography in practice: A clinical and historical review. Curr Rev Musculoskel Med 2008;1:69-83.
6. **El Abd OH**, Rosenberg D, Gomba L, Isaac Z. The lateral atlanto-axial joint as a source of headache in congenital atlanto cccipital fusion. Am J Phys Med Rehabil 2008;87:232-7.
7. **El Abd OH,** Fusco H, Lew M, Jenis L, Gomba L. Coccidomycosis Infection Presenting With Thoracic Spinal Pain. PMR 2012 Jun;4(6):450-5.
8. El Abd OH, Pimentel DC, Amadera JD. General pruritus as an unusual side effect after epidural injection with dexamethasone. [PM R.](http://www.ncbi.nlm.nih.gov/pubmed/25289843) 2014 Oct 4. pii: S1934-1482(14)01410-5. doi: 10.1016/j.pmrj.2014.09.012.

\* Co-first authors. |

[Non-peer reviewed scientific or medical publications/materials in print or other media](http://cv.hms.harvard.edu/index.php?page=no_peerreview)

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| **Reviews, chapters, monographs and editorials** 1. **El Abd OH**. Steroids in spine interventions. In: Slipman CW, Derby R, Mayer TG, editors. Interventional Spine: An Algorithmic Approach. Philadelphia: Elsevier; 2007.
2. **El Abd OH**. Low back sprain. In: Frontera WF, Silver JK, Rizzo TD, editors. Essentials of Physical Medicine and Rehabilitation. 2nd ed. Philadelphia: Elsevier; 2008.
3. **El Abd OH**. Spine Interventions. In: Magee D, Zachazewski, J, editors. Scientific Foundations and Principles of Practice in Musculoskeletal Rehabilitation. Philadelphia; Elsevier: 2008.
4. **El Abd OH**. Role of epidural steroids for lumbar disc disruption. In: Depalma M, editor. iSpine: Evidence-Based Interventional Spine Care. New York; DemosMedical: 2011.
5. **El Abd OH**. Low back sprain. In: Frontera WF, Silver JK, Rizzo TD, editors. Essentials of Physical Medicine and Rehabilitation. 3rd ed. Philadelphia: Elsevier; 2014.
6. **El Abd, OH,** Pimentel DC, Amadera JD. In Magee DJ, Zachazewski JE, Quillen WS, Manske RC: Pathology and Intervention in Musculoskeletal Rehabilitation, 2nd Ed.  - Spinal Pathology:  Nonsurgical Intervention. PP561-583 Elsevier Publishing, Copyright 2016.  ISBN:  978-0-323-31072-7
7. **El Abd, OH,** Amadera JD, Pimentel DC, Bhargava A. In McCarthy JC, Noble PC: Hip Joint Restoration: Worldwide Advances n Arthroscopy, Arthroplasty, Osteotomy and Joint Preservation Surgery 1st ed. 2017 Edition. Nonsurgical Treatment (Indications, Limitations, Outcomes): Injections. PP 299-314 Springer, Copyright 2017. ISBN: 978-1461406938
 |

[Clinical Guidelines and Reports](http://cv.hms.harvard.edu/index.php?page=reports)

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| 1. **El Abd OH**, Slipman CW. Chiropractic care. Complementary and Alternative Medicine PIER Clinical Guidance from American College of Physicians (5/10/04). <http://pier.acponline.org>
 |

[Abstracts, Poster Presentations and Exhibits Presented at Professional Meetings](http://cv.hms.harvard.edu/index.php?page=abstracts)

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| List abstracts published and exhibits presented at meetings during the last 3 years which have not already been published as full length manuscripts. May also list all abstracts or exhibits, regardless of date or publication as full-length manuscript, which received special recognition at a meeting (e.g., juried poster presentation, meeting commendation). |

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| 1. “Acute Bilateral Facial Palsy As An Initial Presentation Of Leptomeningeal Metastasis: A Case Report” Abstract, Archives of Physical Medicine and Rehabilitation, Vol. 82, p. 1310, September 2001.
2. Preliminary Outcomes of Percutaneous Decompression Utilizing Coblation® for the Treatment of Axial Low Back Pain. Second world congress of the International Society of Physical and Rehabilitation Medicine Prague, Czech Republic May 2003.
3. Nucleoplasty Procedure for Cervical Radicular Pain – Initial case series. Second world congress of the International Society of Physical and Rehabilitation Medicine Prague, Czech Republic May 2003.
4. Allergy to Titanium Spinal Implant, American Academy of Physical Medicine and Rehabilitation's 65th Annual Assembly, Phoenix, AZ October 7, 2004
5. Sacroplasty for Management of Pain in a Sacral Fatigue Fracture. Association of Academic Physiatrists Annual Meeting 2009, Colorado Springs CO.
6. Coccidomycosis Infection Presenting With Thoracic Spinal Pain. Association of Academic Physiatrists Annual Meeting in Phoenix Arizona, April 12-16, 2011.
7. Vascular Flow Detection during Transforaminal Epidural Steroid Injections (selected to be part of the Musculoskeletal Best Research Presentations). American Academy of Physical Medicine and Rehabilitation Annual Assembly, Orlando FL, November 17-20, 2011
8. Perineal Pruritus after Transforaminal Epidural Injections with Dexamethasone. American Academy of Physical Medicine and Rehabilitation Annual Assembly, Orlando FL, November 17-20, 2011
9. General Pruritus as an Unusual Side Effect after Transforaminal Epidural Injection with Dexamethasone. American Academy of Physical Medicine and Rehabilitation Annual Assembly, Orlando, FL, November 17-20, 2011
10. Unusual cause of acute neck pain: A case report. American Academy of Physical Medicine and Rehabilitation Annual Assembly, Atlanta GA, November 16, 2012.
11. Comparison of Radiation Exposure Using Two Types of Shield Protection During Spinal Interventions. American Academy of Physical Medicine and Rehabilitation Annual Assembly, Atlanta GA, November 17, 2012.
12. Correlation Between Vascular Penetration During Needle Positioning and Perineal Pruritis in Transforaminal Epidural Injections With Dexamethasone. American Academy of Physical Medicine and Rehabilitation Annual Assembly, Atlanta GA, November 17, 2012.
13. Immediate and Acute Complications Following Transforaminal Epidural Steroid Injections with Dexamethasone. American Academy of Physical Medicine and Rehabilitation Annual Assembly, Atlanta GA, November 17, 2012.
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[Narrative Report](http://cv.hms.harvard.edu/index.php?page=narrative)

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| My career focuses on clinical expertise, program development and teaching. I joined the Department of PM&R as one of the first interventional spine sub-specialists and developed the Interventional Spine Program at The Spine Center at Newton-Wellesley Hospital, a collaboration of Massachusetts General Hospital and Newton-Wellesley Hospital, to provide a new and much needed service to patients, as spine pain is the most common cause of disability among working-aged adults. My approach provides prompt patient evaluation, immediate evidence-based management and high quality medical care. When I joined the practice, my efforts concentrated on developing a program to effectively manage acute painful spine disorders and chronic conditions with acute exacerbations. The Spine Center became widely recognized by patients and physicians in the Boston area. In 2011, I began developing a spine care program at Spaulding Framingham. As the first Interventional Spine Physiatry Director, I have developed policies, trained staff, and established a subspecialty by combining conservative management of painful spine disorders with radiologic interventional procedures. In addition to my expertise in non-operative spine care and in performing routine interventional spine procedures, I have introduced procedures that were not offered by physiatry in the Harvard system or in the state of Massachusetts. These include upper cervical facet joints radiofrequency ablation, lumbar percutaneous discectomies, vertebroplasty and sacroplasty. As new procedures have been introduced in the field, I have pursed education and training in the United States and Europe to learn spine endoscopic transforaminal decompression. I am in the process of introducing this novel treatment in the Harvard system.As the field of interventional spine physiatry expands nationally, there are increased reports of procedural complications. These reports demonstrate the need to educate interventionalists about techniques to minimize complications, improve patient safety and enhance the subspecialty. I have assembled experts from around the country and developed a course to train interventionalists on safely performing procedures. We offered this course for the past three years at the Academy of PM&R annual assembly. We also presented it at the International Society of Physical and Rehabilitation Medicine Biannual meeting. I recently conducted a prospective study on complications of transforaminal epidural steroid injections with dexamethasone. I also conducted a study on vascular flow detection, which has been selected for the best musculoskeletal research section of the AAPM&R 2012 meeting.   |