# Burak Akesen, MD. Associate Profesor

# Orthopaedics and Traumatology, Spine Surgeon

# **CURRICULUM VITAE**

# **PERSONAL INFORMATION**

Date of birth	April 1, 1974
Place of birth	Istanbul, Turkey
Civil Status	Married with two children
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# **EDUCATIONAL BACKGROUND**

1985-1992	Beşiktaş Atatürk Anatolian High School
1992-1997	University of Uludağ, School of Medicine
1998-1999	Intern in Medicine and Surgery, University of Uludağ
2001-2005	Resident in Orthopaedic Surgery, University of Uludağ

#### **WORK EXPERIENCE**

2010-Present Associate Professor, Orthopaedic Spine Surgeon, Uludağ University, Bursa, Turkey My practise here includes management of spinal disorders, training residents and , on-calls at the university hospital. My scholar program includes teaching undergraduate students and residents and research. I am also the executive of the musculoskeletal lectures of the third grade. My clinical practise is covered by spinal disorders. I have the experience and skills to manage spinal disorders including deformities (scoliosic, kyphosis), degenerative spine, spinal trauma, and spinal tumors regardless of the anatomic site. I perform spinal surgery in approximately 150 cases per year. 2009-2010 Forensic Medicine Headquarters, Istanbul, Turkey During the time period between my appointment to the faculty position at Uludag University and end of my mandatory military duty I had the chance to review the medical records which

> were associated with a law suit. I was in charge of preparing an official report in order to guide the court if malpractise was an issue. The cases were all included in the expertise area of orthopaedics and traumatology.

### 2008-2009 Mandatory Military Duty, Turkish Airforce

I worked as an orthopaedic surgeon at Hatay Military Hospital which is the most developed military hospital in the Egean Region. The average number of patients visiting my clinics daily was 80. I performed surgery mainly on trauma patients. I was also a member of a medical team which was in charge of deciding if the recruits were medically eligible to serve at special forces.

# 2006-2007 John H. Moe Spine Clinical Fellow, Twin Cities Spine Center, MN, USA

Up on completion my research fellowship and receiving my ECFMG certificate I was eligible to be a clinical fellow. I was either the first or second surgeon in more than 300 cases during my fellowship. Two days in a week I examined and evaluated visiting the patients with spinal problems and directly involved in decision making process. I was on-call one day in a week which covered all hospitals in the city. I also participated in clinical studies.

# 2005-2006 Research fellow, FASK( Foundation of the Advancement of Spinal Knowledge) Biomechanic Labratory, MN,USA

I was in charge of the management of a biomechanical labratory together with a biomechanical engineer. I ran studies with other fellows along with my own projects. I gained experience to work on human cadavers. I also had chance to scrubb in selected cases performed at Twin Cities Spine Center.

#### **COURSES RELATED TO SPINE SURGERY**

- AOSpine Masters Symposium-Spinal Trauma. Prague, Czech Republic, November 14-15,2011.
- 2. AOSpine Masters Symposium. Davos, Switzerland, December 11-15, 2011.
- AOSpine Masters Symposium-Spinal Tumors and Deformities. Palermo, Italy, June 21-23,2010.
- **4.** Spine Executive Class "SpEx-C". Controversies on minimally invasive lumbar spine instrumentation (MIS). Zermatt, Switzerland, April 22-25,2010.
- Minimally invasive surgery techniques for fusion treatment of the lumbar spine.
   Cadaver workshop. Leiden, Netherlands, April 25-26, 2010.
- The Prevention and Management of Complications in Spine Access Surgery. AOSpine Live Tissue Training Days. Strasbourg, France, September 04, 2010.
- AOSpine Advanced Symposium-Deformed Spine. Istanbul, Turkey, December 03-04, 2010.
- 8. AOSpine Masters Symposium. Davos, Switzerland, December 13-17, 2010.
- **9.** AOSpine Symposium- Masterclass in the treatment of degenerative disorders and tumors of the spine. Bodrum, Turkey, June 11-13,2009.
- **10.** AOSpine Masters Course-Cervical Spine. Bursa, Turkey, February 21-24, 2008.
- AOSpine Advances Course Emerging concepts in deformity care. Davos, Switzerland, December 14-19,2008.
- AOSpine Advanced Concepts in the management of spinal disorders. Idaho, USA, February 1-4,2007.

# **MEMBERSHIPS**

- Turkish Orthopaedic Society
- Turkish Spine Society
- AO-Spine Society
- AO-Spine Turkish Council Member (Community Development)

#### **INVITED COURSES AND SPEECHES**

- Anterior cervical surgery: discectomy, plating and fusion and disc arthroplasty. AO-Spine Principles Symposium. Bursa, Turkey, March 28-29, 2014.
- 2. Pathophysiology of degenerative disc disease and natural history of aging spine.AO-Spine Principles Symposium. Bursa, Turkey, March 28-29, 2014.
- **3. Lumbar degenerative scoliosis: pathophysiology**. AO-Spine Principles Symposium. Bursa, Turkey, March 28-29, 2014.
- 4. Hemorrhage and epidural hematoma. AO-Spine Principles Symposium.

Bursa, Turkey, March 28-29, 2014.

- **5. Evaluation of thoracolumbar spine fractures**.23. International Turkish Orthopaedics and Traumatology Congress. Antalya, Türkiye, 29 Ekim-1 Kasım, 2013.
- Subaxial Spinal Fractures and Dislocations. AOSpine Advanced Course- Trauma.
   Izmir, Turkey, April 10-11, 2013
- **7.** Clinic and classification of primary spinal tumors. AO-Spine Masters Symposium-Spinal Tumor and Infection. Istanbul, Turkey, October 25-26, 2013 (Guest Speaker).
- 8. Posterior instrumentation and osteotomies in cervical spine. Akdeniz Üniversitesi Tıp Fakültesi Klinik Anatomi Laboratuarı. 23-24 Eylül, Antalya, Türkiye. ( Cadaver course, table instructor)
- 9. The Prevention and Management of Complications in Spine Access Surgery.
   AOSpine Live Tissue Training Days. Strasbourg, France, September 05-06, 2013
   (Table instructor).
- 10. The Prevention and Management of Complications in Spine Access Surgery.
   AOSpine Live Tissue Training Days. Strasbourg, France, September 21-22, 2012
   (Table instructor).

11. ALIF vs TLIF: advanced techniques and revision strategies in the lumbar spine. Human Cadaver Course. Minneapolis, Minnesota, September 09,2006 (Table instructor).

# **MEETINGS**

- 1. AOSpine Advanced Course- Trauma. Izmir, Turkey, April 10-11, 2013. (Chairperson)
- 2. Spine Experts Group Annual Meeting. Istanbul, Turkey, December 02-03,2010.

(Chairperson).

#### **INTERNATIONAL PUBLICATIONS**

- **1.** Akesen B, Ulusaloglu AC. Wide resection of sacral chordoma including gluteus maximus muscle via posterior approach. J.Med Cases. 2016;7(1):15-17.
- 2. Uğraş N, Yalcınkaya U, Akesen B, Kanat O. Solitary bone metastases of unknown origin. Acta Orthop. Belg. 2014, 80, 139-143.
- **3.** Akesen B, Mutlu M, Kara K, Aydınlı U. Traumatic lumbosacral spondyloptosis: a case report and review of the literature. Global Spine J 2014 Feb;4(1):59-62.
- Aksakal M, Ermutlu C, Sarısözen B, Akesen B. Approach to supracondylar humerus fractures with neurovascular compromise in children. Acta Orthop Traumatol Turc 2013;47(4):244-249.
- **5.** Aydınlı U, **Akesen B**, Yalıçınkaya U, Hakyemez B, Serifoglu R. Iliosacral fixation after type-1 hemipelvectomy: a novel technique. Acta Orthop. Belg. 2012;78, 393-397.
- 6. Özdemir B, Akesen B, Demirağ B, Bilgen MS, Durak K. Long term outcome of unreamed intramedullary nails in femur diaphyseal fractures. Ulus Travma Acil Cerrahi Derg 2012;18 (2):147-152.
- Kaplan T, Akesen B, Demirağ B, Bilgen S, Durak K. Comparative results of percutaneous cannulated screws and dynamic compression type plate and screw in the treatment of femoral neck fractures. Ulus Travma Acil Cerrahi Derg. 2012: 18(1): 65-70.
- Yaray O, Akesen B, Aydınlı U. Long-term outcome after surgical treatment of thoracolumbar fractures versus a control group of healthy volunteers. Acta Orthop. Belg 2011;77: 93-96.

- Yaray O, Akesen B, Ocaklıoğlu O, Aydınlı U. Validation of the Turkish version of the visual analog scale spine score in patients with spinal fractures. Acta Orthop Turc 2011:45(5):353-358.
- Vural R, Akesen B, Karakayalı M, Yalçınkaya U, Aydınlı U. The comparison of the negative effect of autoclaving and pasteurization on bone healing. Acta Orthop Turc 2010; 44(4):322-32.
- 11. Vargas-Soto HA, Mehbod A, Mullaney KJ, Dykes D, Schwender J, Transfeldt E, Akesen
   B, Wroblewski J. Salvage procedures for pseudarthrosis after transforaminal lumbar interbody fusion (TLIF)-anterior-only versus anterior-posterior surgery: a clinical and radiological outcome study. J Surg Orthop Adv. Winter 2009;18(4):200-4.
- 12. Akesen B, Demirağ B, Budak F. Evaluation of intra-articular collageanse, TIMP-1, and TNF- alpha levels before and after anterior cruciate ligament reconstruction. Acta Orthop Turc 2009: May-Jul;43(3):214-8.
- Akesen B, Wu Chunhui, Mehbod AA, Transfeldt EE. Revision of iliac screws:a biomechanical study of longer and bigger screws.Spine 2008:(13);1423-1428.
- 14. Akesen B, Wu Chunhui, Mehbod AA, Transfeldt EE. Biomechanical evaluation of anterior transsacral fixation. Journal of Spinal Disorders & Technique 2008 ;21(1);39-44.
- 15. Sokolowski MJ, Garvey TA, Perl J 2<sup>nd</sup>, Sokolowski MS, Akesen B, Mehbod AA, Mullaney Kevin J, Dykes Daryll C, Transfeldt EE.Postoperative lumbar epidural hematoma:does size really matter? Spine 2008:33(1);114-119.
- Hostin AR, Polly WD Jr, Perra JH, Akesen B, Wu Chunhui. Revision screw strategies for cervical spine. Spine 2008; 33(22);2415-21.

- Özer Ö, Öztürk Ç, Akesen B, Aydinli U. Interobserver reliability in evaluation of pedicle screw positions inserted with a modified technique. Acta Orthop Belg 2007:73(4);491-9.
- Aydınlı U, Ozturk C, Temiz A, Akesen B. Comparison of two techniques in hemivertebra resection: transpedicular eggshell osteotomy versus standart anteriorposterior approach. Eur J Orthop Surg Traumatol 2007:17;1-5.
- **19.** Aydinli U, Ozturk C, **Akesen B**, Ozer O. Surgical treatment of Sprengel's deformity: a modified Green procedure. Acta Orthop Belg 2005:71(3);264-8.
- 20. Atici T, Aydinli U, Akesen B, Serifoglu R. Results of surgical treatment for kyphotic deformity of the spine secondary to trauma or Scheuermann's disease. Acta Orthop Belg:70(4);344-8.

# **BOOK CHAPTER**

 Treatment of Lumbar Disc Herniation. Beograd-Alfa,978-86-331-3305-0. Volume (2), 20-34,2007.

#### NATIONAL PUBLICATIONS

- Akesen B, Mutlu M, Kürşat Kara, Yılmazlar A, Aydınlı U. Pedicle screw monitoring bypedicle stimulating probe in spinal surgery. The Journal of Turkish Spina Surgery 2012; 23 (1):13-18.
- Akesen B, Küçükalp A, Yalçınkaya U, Aydınlı U. Osteosarkom: olgu sunumu. UÜTF Dergisi 2012:38(2);147-151.
- 3. Akesen B, Mutlu M, Kara K, Yılmazlar A, Aydınlı U. Omurga cerrahisinde pedikül uyarıcı duyargası ile pedikül vidalarının gözlemlenmesi. J Turkish Spine Surgery 20120:23(1);13-18.
- Durak K, Akesen B. Pelvis kırıklarında değerlendirme ve sınıflama. TOTBİD Dergisi 2012;11(2):89-95.
- Bilgen MS, Akesen B, Küçükalp A, Durak K. Akut Patella Çıkıkları.Türkiye Klinikleri J Orthop&Traumatol-Special Topics 2011;4(3):66-72.
- 6. Akesen B, Bayyurt S, Aydınlı U. Surgical results of paraspinal approach in spinal deformtiy cases. J Turkish Spine Surgery 2011:22(3);173-178.
- Durak K, Akesen B. Ayak ve ayakbileği yaralanmaları acilleri. Türkiye Klinikleri J Orthop & Traumatol-Special Topics 2010;3(3).
- Akesen B, Ermutlu C, Aydınlı U. Spinal hydatidosis. Report of a case treated by three level corpectomy, anterior and posterior instrumentation. J Turkish Spine Surgery 2011:22(1);45-50.
- Akesen B, Yaray O, Aydınlı U. Nörolojik yaralanması olmayan torakolomber vertebra kırıklı hastalarda uygulanan cerrahilerin uzun dönem sonuçları. J Turkish Spine Surgery 2010:21(4);325-338.

- Akesen B, Ermutlu C, Göksel F, Aydınlı U. Lomber omurga tüberkülozunda ikili antibiyoterapi ve cerrahinin uzun dönem sonuçları. J Turkish Spine Surgery 2010:21(4);351-362.
- Akesen B, Yaray O, Aydınlı U. Torakolomber kırık ve çıkıklarda sınıflama sistemleri ve Magerl sınıflaması. J Turkish Spine Surgery:21(4);373-384.
- Turan A, Akesen B, Aydınlı U. Perkütan minimal invaziv lomber diskektomi. Turkish J Orthop & Special Topics 2008:1(4);49-56.

#### **ABSTRACTS AND PRESENTATIONS**

- 1- F Barishan, Akesen B. Evaluation of the shoulder imbalance angular parameters and the usage of midtrapezial angle clinically and radiologically in adolescent idiopathic scoliosis cases. Global spine Congress, April 13-16, 2016, Dubai, United Arab Emirates.
- 2- Aksakal AM, Ermutlu C, Akesen B, Aydınlı U. The correlation between lumbar decompression and patient outcome. Global Spine Congress, April 04-06, 2013, Hong Kong-China.
- Göksel F, Akesen B, Aydınlı U. Results of Surgical Treatment of Lumbar Spinal Stenosis: Minimum one year follow-up. Spine Experts Group Annual Meeting, December 02-03, 2010 Istanbul-Turkey.
- 4- Akesen B, Ermutlu C, Göksel F, Aydınlı U. Long term Clinical Outcome Of Combined Two-Drug Therapy And Surgery For Treatment Of Lumbar Spinal Tuberculosis. Spine Experts Group Annual Meeting, December 02-03, 2010 Istanbul-Turkey.
- 5- Akesen B, Ermutlu C, Aydınlı U. Spinal Hydatidosis : Report of a Case Treated By Three Level Corpectomy, Anterior And Posterior Instrumentation. Spine Experts Group Annual Meeting, December 02-03, 2010 Istanbul-Turkey.
- 6- Akesen B, Wu Chunhui, Mehbod AA, Sokolowski MJ, Transfeldt EE. Biomechanical evaluation of anterior transsacral fixation. E-poster. 14th International Meeting on Advanced Spine Techniques (IMAST). Paradise Island, Bahamas, July 11-14, 2007.
- 7- Akesen B, Wu Chunhui, Mehbod AA, Transfeldt EE. Revision of iliac screws: a biomechanical study of longer and bigger screws. Oral presentation. 14th International Meeting on Advanced Spine Techniques (IMAST). Paradise Island, Bahamas, July 11-14, 2007.

- 8- Sokolowski MJ, Garvey TA, Perl J 2<sup>nd</sup>, Mehbod AA, Akesen B, Sokolowski MS, Transfeldt EE. Postoperative lumbar epidural hematoma:does size really matter?.
   Oral presentation. 22<sup>nd</sup> Annual NASS meeting, Austin, TX, October 2007.
- 9- Sokolowski MJ, Garvey TA, Perl J 2<sup>nd</sup>, Mehbod AA, Akesen B, Sokolowski MS,
   Transfeldt EE. Postoperative lumbar epidural hematoma:does size really matter?.
   Oral presentation. 42<sup>nd</sup> Annual SRS meeting, Edinburgh, Scotland, September 2007.
- 10- Sokolowski MJ, Garvey TA, Perl J 2<sup>nd</sup>, Mehbod AA, Akesen B, Sokolowski MS, Transfeldt EE. Postoperative lumbar epidural hematoma:does size really matter?.
   Oral presentation. 14th International Meeting on Advanced Spine Techniques (IMAST). Paradise Island, Bahamas, July 11-14, 2007.
- Sokolowski MJ, Garvey TA, Perl J 2<sup>nd</sup>, Mehbod AA, Akesen B, Sokolowski MS,
   Transfeldt EE. Postoperative lumbar epidural hematoma:does size really matter?.
   Oral presentation. Minneapolis Orthopaedic Siciety meeting, Minneapolis, MN, May 2007.
- 12- Sarisozen B, Demirag B, Akesen B, Ozturk C. Electrophysiological Changes in Skeletal Muscles During Experimental Tibial Lengthening.3<sup>rd</sup> Meeting of A.S.A.M.I International May,2004 Istanbul-Turkey;
- 13- Aydinli U, Akesen B, Karakayali M, Bakounov A,Ozturk C. Posterolateral Approach For Posterior Stabilization, Fusion And Transforaminal Interbody Fusion in Lumbar Spine.
  7th International congress on spine, April 14-17,2005 Antalya-Turkey.
- 14- Aydinli U, Ozturk C, Temiz A, Akesen B. Comparison of two techniques in hemivertebra resection. SRS 39th Annual meeting & one day course:innovative treatment options in spine surgery, Buenos Aires, Argentina, Sept.6-9 2004

- 15- Akesen B, Aydinli U, Ozturk C, Ersozlu S. Interobserver reliability of plain radiographs assessing pedicle screw position. Abstract book IX Congress of the Bulgarian Orthopaedics and Trauma Surgeons with International Participation 14-17.10.2004 Plovdiv, Bulgaria.
- 16- Temiz A, Ozturk C, Akesen B, Kaleli T. Bioabsorbable barrier on preventing peritendinous adhesion formation. XL EME CONGRES Avec la participation de La Societe Italienne de Chirurgie de la Main Presidee par M.CERUSO PARIS 16.17.18 DEC.2004
- 17- Aydinli U, Ozturk C, Temiz A, Akesen B. Comparison of two techniques in hemivertebra resection. Second Annual Meeting of The Spine Meeting 9-11 December, 2004. Budapest-Hungary.
- 18- Aydinli U, Ozturk C, Ersozlu S, Ozer O, Akesen B. Is the anterior decompression sufficient for neurological recovery in all low lumbar burst fractures? Second Annual Meeting of The Spine Meeting 9-11 December, 2004. Budapest-Hungary.
- **19- Akesen B,** Aydinli U, Ozturk C, Ersozlu S. Interobserver reliability in evaluating the pedicle screw position in a modified technique for pedicle screw fixation. Second Annual Meeting of The Spine Meeting 9-11 December, 2004. Budapest-Hungary.
- 20- Aydinli U, Ozturk C, Ersozlu S, Ozer O, Akesen B. Is the anterior decompression sufficient for neurological recovery in all low lumbar burst fractures? 11<sup>th</sup> IMAST July 1-3, 2004. Bermuda.
- 21- Aydinli U, Ozturk C, Temiz A, Akesen B. Comparison of two techniques in hemivertebra resection. 11<sup>th</sup> IMAST July 1-3, 2004. Bermuda.

- 22- Aydinli U, Ozturk C, Ersozlu S, Ozer O, Akesen B. The importance of green stick lamina fractures in low lumbar spine. Spine Week May 30-June 5, 2004. Porto-Portugal.
- **23-** Aydinli U, Ozturk C, Temiz A, **Akesen B**. Comparison of two techniques in hemivertebra resection. Spine Week May 30-June 5, 2004. Porto-Portugal.
- 24- Aydinli U, Ersozlu S, Akesen B, Serifoglu R, Parlak M. E-poster 606. Tapping
   Technique for Pedicle Screw Application:New Technique. 10TH IMASTJuly10-12
   Rome,ITALY 2003
- 25- Atici T, Aydinli U, Akesen B, Serifoglu R, Ozturk C. E-poster 1002. The Results of Treatment of Sagittal Place Deformities of Vertebral Column. IMAST July 10-12 Rome,ITALY 2003.

#### REFERENCES

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# **APPENDIX**

Certificates and award.



James D. Schwender, MD CINC. upon satisfactory completion of a fellowship in Orthopaedic Spine Surgery is aph H. Perkan MD into, MI Ensor E. Transfeld 200 TWIN CITIES SPINE CENTER Manuel R./: Burak Akesen, MD John H. Moe Fellowship Minneapolis, Minnesota Kevin J. Mullaney, MD at most tor far Amir A. Mehbod, MD July 31, 2007 awards 0.0000000 mothy A. Garvey, M2 TOCO MAN fin E. Lonstein, MD Daryll C. Dykes, MD Francis Denis, MD Succelles

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