

**Dr. Erdem Aktaş**  
**Orthopedics and Traumatology Specialist**

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**Birth Place & Date** : İzmir- Turkey /1973

**Working Hours** : Weekday 08:30- 17:30  
Weekend 08:30- 13:00

### **EDUCATION DETAILS AND CAREER**

**University** : Ankara University School of Medicine

**Specialism Branch** : Gazi University School of Medicine, Department of Orthopaedics and Traumatology

### **PROFESSIONAL EXPERIENCE**

1. Gazi University School of Medicine, Department of Orthopedics and Traumatology (Resident)
2. Hospital for Joint Surgery, Department of Arthroplasty, New York, USA ( Observer)
3. Dr. Abdurrahman Yurtaslan Oncology Research and Trainig Hospital, Department of Orthopedics and Traumatology. (Specialist)
4. University of Wisconsin, Dept of Orthopaedics and Rehabilitation, Madison, WI, USA ( Research Fellow)
5. Ankara Research and Trainig Hospital, Department of Orthopedics and Traumatology ( Associate Professor)
6. TOBB ETÜ School of Medicine, Department of Orthopedics and Traumatology (Instructor- Associate Professor ).

### **MEDICAL INTEREST FIELDS**

1. Sports Medicine- Arthroscopic Surgery
2. Joint Disease - Joint Replacement Surgery
3. Regenerative Medicine, Stem Cell Therapy
4. Foot and Ankle Surgery
- 5 Trauma

### **ASSOCISATIONS AND INSTITUTIONS**

#### **International Associations:**

- 1.Fragility Fracture Network (FFN)
- 2.European Accreditation Council for Continuing Medical Education (EACCME)

#### **Local Associations:**

1. Turkish Society of Orthopaedics and Traumatology (TOTBID)
2. Turkish Orthopaedics and Traumatology Council of Education (TOTEK)

## **RESEARCHES AND PUBLICATIONS**

Please click the link for [researches and publications](#) of our physician.

### **A. International Research and Publications**

- A1.** **Aktas E**, Sener E, Gocun PU. Mechanically induced experimental knee osteoarthritis benefits from anti-inflammatory and immunomodulatory properties of simvastatin via inhibition of matrix metalloproteinase-3. J Orthop Traumatol. 2011;12:145-51
- A2.** **Aktas E**, Sener E, Zengin O, Gocun PU, Deveci MA. Serum TNF-alpha levels: potential use to indicate osteoarthritis progression in a mechanically induced model. Eur J Orthop Surg Traumatol. 2012; 22: 119-122
- A3.** **Aktas E**, Kaya AV, Deveci MA, Ozler K, Akdeniz H, Yildirim H. Polysaccharide hemostatic system reduces blood loss in high-body-mass-index patients undergoing simultaneous bilateral total knee arthroplasty. J Orthop Sci. 2012; 17:432-436
- A4.** Arıkan M, **Aktaş E**, Toğral G, Yıldırım A, Kandemir O. Chondroblastoma of the Medial Cuneiform Bone in a 32 Year Old Women. American Journal of Case Reports 2014; 15: 317-321
- A5.** Arıkan M, Toğral G, Hastürk EA, **Aktaş E**, Güngör Ş. Management and retrospective analysis of primary and metastatic sacral tumors and infections: evaluation with 73 cases. Eklem Hastalıkları ve Cerrahisi 2014; 25: 126-132.
- A6.** **Aktaş E**, Atay Ç, Deveci MA, Arıkan M, Toğral G, Yıldırım A. Impact of oxydative stress on early postoperative knee functions and muscle injury biochemical markers: can we create an IPC effect in sequential ischaemic surgical procedures. Acta Orthop Traumatol Turc 2015; 49: 387-93
- A7.** Memişoğlu S, Yılmaz B, **Aktas E**, Komur B. Isolated scapula fracture: ice hockey player without trauma. Annals of Medicine and Surgery 2015;4:235-37
- A8.** Yılmaz B, Komur B, **Aktas E**, Sonnur F, Copuroglu C, Ozcan M, Ciftdemir C, Copuroglu E. Impact of Alprazolam on Comorbidity Pain and Knee Functions in Total Knee Arthroplasty Patients Diagnosed with Anxiety and Depression. The Open Orthopaedics Journal; 2015;4:466-71

- A9.** Senkoylu A, **Aktas E**, Songur M, Aktas E. Pulmonary Cement Embolism in a Multiple Myeloma Patient Following Vertebroplasty: A Case Report. EC Orthopaedics 2015; 2: 65-69
- A10.** Tođral G, Arıkan M, **Aktaş E**, Öztürk R, Güven O, Eksiođlu F Surgical management of bone metastases from urological malignancies: an analysis of 70 cases. Acta Orthop Traumatol Turc. 2015;49(6):634-40
- A11.** Saether EE, Chamberlain CS, **Aktas E**, Leiferman EM, Brickson SL, Vanderby R. Primed Mesenchymal Stem Cells Alter and Improve Rat Medial Collateral Ligament Healing. Stem Cell Rev. 2016;12(1):42-53.
- A12.** Yılmaz B, Özdemir G, **Aktas E**, Kömür B, Alfıdan S, Memiřođlu S, Duymuř TM. Brucella Suspicion is the Most Important Criterion for Diagnosis Particularly in Endemic Regions. The Open Orthopaedics Journal; 2015;9:548-51
- A13.** Özler K, **Aktaş E**, Atay Ç, Yılmaz B, Arıkan M, Güngör ř. Serum and Knee Synovial Fluid Matrixmetalloproteinase-13, Tumor Necrosis Factor-Alpha Levels in Patients with Late Stage Osteoarthritis. Acta Orthop Traumatol Turc. doi: 10.3944/AOTT.2015.15.0115
- A14.** Arıkan M, Tođral G, Yıldırım A, **Aktaş E**. Chondromyxoid fibroma of the pubic ramus: a case report and literature review. Acta Orthop Traumatol Turc. 2016; 50:115-119.
- A15.** **Aktaş E**, Chamberlain CS, Saether EE, Duenwald-Kuehl SE, Kondratko-Mitnacht J, Stitgen M, Lee JS, Clements AE, Murphy WL, Vanderby R. Immune modulation with primed mesenchymal stem cells delivered via biodegradable scaffold to repair an Achilles tendon segmental defect. J Orthop Res. 2016 Apr 6. doi: 10.1002/jor.23258.
- A16.** Kanatlı U, Ayanođlu T, **Aktaş E**, Ataođlu MB, Özer M, Çetinkaya M. Grade of Coracocromial Ligament Degeneration as a Predictive Factor for Impingement Syndrome and Type of Partial Rotator Cuff Tear. J Shoulder Elbow Surg. 2016;25:1824-1828.

- A17. Aktaş E**, Ayanoğlu T, Hatipoğlu Y, Kanatlı U. Spontaneous And Bilateral Avascular Necrosis Of The Navicula: Müller-Weiss Disease. Eklem Hastalıkları ve Cerrahisi. 2016;27: 1-4.
- A18.** Kanatlı U, **Aktaş E**, Yetkin H. Do Corrective Shoes Improve the Developement of the Medial Longitudinal Arch in Children with Flexible Flat Feet? J Orthop Sci. 2016;21:662-666.
- A19.** Şenköylü A, Zinnuroğlu M, Börçek A, **Aktaş E**, Güngör I, Beyazova M. Comparison of Multimodal Intraoperative Neurophysiological Monitoring Efficacy in Early Childhood and School Aged Children Undergoing Spinal Surgery. ActaOrthopTraumatolTurc. <http://dx.doi.org/10.1016/j.aott.2016.12.005>
- A20.** Uzun H, Bitik O, Uzun Ö, Ersoy US, **Aktaş E**. Platelet Rich Plasma versus Corticosteroid Injections for Carpal Tunnel Syndrome. J Plast Surg Hand Surg. 2016; 6:1-5.
- A21.** Vanderby R, Chamberlain CS, Saether EE, **Aktas E**. Mesenchymal Stem Cell Therapy on Tendon/Ligament Healing. J Cytokine Biol. 2017;2(1).
- A22.** Bozkurt C, Senkoylu A, **Aktas E**, Sarıkaya B, Sipahioglu S, Gurbuz R, Timucin M. Biomechanical evaluation of a novel Apatite-Wollastonite Ceramic cage design for lumbar interbody fusion: a finite element model study. BioMed Research International. <https://doi.org/10.1155/2018/4152543>

### **International Congress Presentations**

- 1. Aktaş E**, Yılmaz B. Preoperative assessment of arthritis related anxiety, depression ad comorbid pain in elderly patients and beneficial effects of alprazolam after total knee arthroplasty. 1st FFN Global Congress, Berlin, Germany, 2012
- 2. Aktaş E**, Yılmaz B. Preoperative ASA, dexta scores and activity levels; contributing in surgical method and outcomes in unstable osteoporotic intertrochanteric femoral fractures. 1st FFN Global Congress, Berlin. Germany, 2012

**3. Aktaş E,** Chamberlain, CS, Saether E, Kondratko J, Lee JS, Vanderby R. Immune system modulation with primed mesenchymal stem cells embedded in a biodegradable scaffold for regenerative healing of rat achilles tendon defect. 15. th EFORT congress. Abstract book, Pg: 144, London, Great Britain, 4-6 June 2014,

**4. Aktaş E,** Chamberlain CS, Liegel S, Vanderby R. Compared to Platelet Poor Plasma, Does Platelet Rich Plasma Have The Attributed Therapeutic Potential For The Treatment of Rotator Cuff Injuries? SECEC-ESSSE Congress, Abstract book, Pg: 185-186, Istanbul, September 2014

**5.** Saether E, Chamberlain, CS, Kondratko J, **Aktaş E,** Vanderby R. Modulation of Rat Ligament Healing using Primed Mesenchymal Stem Cells. Orthopedic Research Society Annual Meeting. Abstract book, Pg: 81, Las Vegas, Nevada, USA, March 2015

**6.** Şenköylü A, Altun N, İlhan M, Cheung K, **Aktaş E,** Luk K. A simple examination method for evaluation of the curve flexibility: modified Adam's forward bending test. XI. International Turkish Spine Congress. Abstract book, Pg: 33, Izmir, Turkey, April 2015

**7.** Şenköylü A, Özalay M, **Aktaş E,** Çetinkaya M, İlhan M. Low pedicle screw density gives similar results with high pedicle screw density in the treatment of adolescent idiopathic scoliosis. XI. International Turkish Spine Congress. Abstract book, Pg: 72, Izmir, Turkey, April 2015

**8. Aktaş E,** Lu J, Chamberlain CS, Saether E, Lee JS, Vanderby R. Comparison of mesenchymal stem cell versus bone marrow treatment to enhance tendon to bone healing in an animal model. 16 th EFORT congress. Abstract book, Pg: 58, Prague, Czech Republic, 27-29 May 2015

**9.** Yılmaz B, **Aktaş E,** Komur B, Ciftci M, Özcan M, Copuroglu C, Sarıdoğan K. Evaluation of reliability and consistency of AO, Schatzker and Moore classifications of tibial plateau fractures between orthopaedic surgeons. 4<sup>th</sup> FFN Global Congress, Abstract book, Pg:79, Rotterdam, The Netherlands, September 2015

**10.** Kanatlı U, **Aktaş E,** Ayanoğlu T, Eren T, Kaptan Y, Ulucakoy C. Middle-Aged And Elderly Population With Recurrent Anterior Shoulder Instability;

Accompanying Injuries And Outcomes Of Instability. 37th SICOT Orthopaedic World Congress, 8-10 September, Rome, Italy, 2016

**11.** Şenkoylu A, Çetinkaya M, Eren A, Necefov E, **Aktaş E**, Samartzis D. Pedicle screw fixation is easier with additive manufacturing in adolescent idiopathic scoliosis. 20 th Asia Pacific Orthopaedic Association Congress, Antalya,Turkey, 2018

## **B. Book Chapters**

**B1.** Musculoskeletal Research and Basic Science, Chapter 28. Spinal Cord and Intervertebral Disc. Springer. **ISBN:** 978-3-319-20777-3 Erdem Aktaş, Alpaslan Şenköylü. Chapter

**B2.** Operative Techniques in Orthopedic Surgery. Ed: Sam W. Wiesel, Wolters Kluwer/Lippincott Williams & Wilkins. **ISBN:** 978-0-7817-63-70-7. Chapter 68, Sayfa 4007, Star (Scandinavian Total Ankle Replacement). Çeviri

**B3.** Operative Techniques in Orthopedic Surgery. Ed: Sam W. Wiesel, Wolters Kluwer/Lippincott Williams & Wilkins. **ISBN:** 978-0-7817-63-70-7. Chapter 69, Sayfa 4022, HINTEGRA Total Ayakbileği Artroplastisi. Çeviri

**B4.** Temel Bilimler ve Araştırma Kitabı. Spinal kord ve intervertebral diskin yapısı ve işlevleri. Alpaslan Şenköylü, Erdem Aktaş **ISBN:** 978-605-66007-3-9 Bölüm 3, sayfa 445-451.

**B5.** Temel Bilimler ve Araştırma Kitabı. Omurganın İşlevsel Anatomisine Ortopedik Yaklaşım. Alpaslan Şenköylü, Erdem Aktaş **ISBN:** 978-605-66007-3-9 Bölüm 7, sayfa 739-745.

**B6.** Omuz Hastalıkları ve Artroskopisi. Ed: Ulunay Kanatlı. İleri Yaş Omuz İnstabilitesi. Erdem Aktaş, Ulunay Kanatlı. **ISBN:** 978-605-9358-41-5 Bölüm 47, Sayfa 523-527.

## **C. National Publications**

**C1.** Deveci MA, **Aktaş E**, Şimşek AS. Eski redükte edilmemiş büyük eklem çıkıkları. Türkiye Klinikleri, Ortopedi Travmatoloji 2011; 3: 85-90.

**C2.** Yıldırım A, Toğral G, **Aktaş E**, Arıkan M. Sindaktilide güncel sınıflamalar ve bir olgu sunumu. Acta Oncologica Turcica 2013; 46: 60-61

**C3.** Toğral G, Arıkan M, Karataş M, **Aktaş E**, Güngör Ş. Diffuz pigmente villonodüler sinovite cerrahi yaklaşım. Acta Oncologica Turcica 2012; 45: 5-9.

**C4.** Deveci MA, **Aktaş E**. Subakromiyal sıkışma sendromu ve kalsifik tendinit. Türkiye Klinikleri, Ortopedi Travmatoloji 2014; 4: 40-46.

**C5.** **Aktaş E**, Yılmaz B, Ataoğlu B, Arıkan M, Toğral G, İlikmen M. Dirençli lateral epikondilit tedavisinde trombosit zengin plazma ile kombine steroid enjeksiyonunun etkinliği. Acta Oncologica Turcica 2014; 47: 26-31.

**C6.** Yılmaz B, Kömür B, **Aktaş E**, Yazar EA, Alfıdan S, Memişoğlu S. Is Shoulder Pathologies Have Coincidence with Advanced Gonarthrosis in High Body Mass Indexed Patients? Türkiye Klinikleri J Med Sci. 2016;36:193-8.

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