

Prof. Umut AKGÜN

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International Researcher IDs

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Publons / Web Of Science ResearcherID: N-3702-2017

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Education Information

Doctorate, Marmara University, Institute Of Health Sciences, Department Of Physical Education And Sports, Turkey 2007 - 2022

Expertise In Medicine, Marmara University, School Of Medicine, Surgical Medical Sciences, Turkey 2000 - 2005

Undergraduate, Istanbul University, Istanbul Medical Faculty, İstanbul Tıp Pr., Turkey 1993 - 1999

Foreign Languages

English, C2 Mastery

Dissertations

Doctorate, A Pilot study to evaluate the basic arthroscopic hand skills during arthroscopic meniscectomy by motion analysis, Marmara University, Institute Of Health Sciences, Department Of Physical Education And Sports, 2022

Expertise In Medicine, Modified Fulkerson osteotomy in recurrent patellofemoral dislocations, Marmara University, School Of Medicine, Surgical Medical Sciences, 2005

Research Areas

Orthopedics and Traumatology

Academic Titles / Tasks

Professor, Acibadem Mehmet Ali Aydınlar University, School Of Medicine, Department Of Surgical Sciences, 2017 - Continues

Associate Professor, Acibadem Mehmet Ali Aydınlar University, School Of Medicine, Department Of Surgical Sciences, 2012 - 2017

Assistant Professor, Acibadem Mehmet Ali Aydınlar University, School Of Medicine, Department Of Surgical Sciences, 2009 - 2012

Academic and Administrative Experience

Fakülte Yönetim Kurulu Üyesi, Acibadem Mehmet Ali Aydınlar University, School Of Medicine, Department Of Surgical Sciences, 2023 - Continues

Head of Department, Acibadem Mehmet Ali Aydınlar University, School Of Medicine, Department Of Surgical Sciences, 2020 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Mid-term clinical and radiological outcomes of arthroscopic repair of isolated and combined subscapularis tears: A single-center experience**
Kurnaz R., Ergun S., Asci M., AKGÜN U., Gunes T.
ACTA ORTHOPAEDICA ET TRAUMATOLOGICA TURCICA, vol.55, no.6, pp.473-479, 2021 (SCI-Expanded)
- II. **The effect of loop size on loop security and elongation of a knot.**
Ergün S., Akgün U., Karahan M.
Orthopaedics & traumatology, surgery & research : OTSR, 2019 (SCI-Expanded)
- III. **Repair of Longitudinal Meniscal Tears by Single or Double Vertical Loop Sutures: In vitro Biomechanical Study under Cyclic Loading.**
Kurnaz R., Aşçı M., Ergün S., Akgün U., Güneş T.
The journal of knee surgery, 2019 (SCI-Expanded)
- IV. **Effect of adjuvant hyperbaric oxygen on healing of cartilage lesions treated with microfracture: an experimental study in rats**
BAŞCI O., Cimsit M., Zeren S., Saglican Y., AKGÜN U., KOCAOĞLU B., Basdemir G., Karahan M.
UNDERSEA AND HYPERBARIC MEDICINE, vol.45, no.4, pp.411-419, 2018 (SCI-Expanded)
- V. **The effect of environmental pH change on bovine articular cartilage metabolism: implications for the use of buffered solution during arthroscopy?**
AKGÜN U., KOCAOĞLU B., Ergun S., Karahan M., TÜRKMEN İ. M.
KNEE SURGERY SPORTS TRAUMATOLOGY ARTHROSCOPY, vol.22, no.11, pp.2843-2848, 2014 (SCI-Expanded)
- VI. **Arthroscopy-assisted treatment of Hoffa fracture associated with ipsilateral femoral shaft, tibial eminence and Malgaigne fractures**
Akan K., AKGÜN U., Poyanli O., Unay K.
ACTA ORTHOPAEDICA ET TRAUMATOLOGICA TURCICA, vol.48, no.5, pp.602-606, 2014 (SCI-Expanded)
- VII. **The effect of organic silicon injection on Achilles tendon healing in rats**
GERELİ A., AKGÜN U., Uslu S., Agir I., Ates F., Nalbantoglu U.
ACTA ORTHOPAEDICA ET TRAUMATOLOGICA TURCICA, vol.48, no.3, pp.346-354, 2014 (SCI-Expanded)
- VIII. **Pretzel knot compared with standard suture knots**
Karahan M., AKGÜN U., Turkoglu A., Nuran R., Ates F., Yucesoy C. A.
KNEE SURGERY SPORTS TRAUMATOLOGY ARTHROSCOPY, vol.20, no.11, pp.2302-2306, 2012 (SCI-Expanded)
- IX. **Prediction of semitendinosus and gracilis autograft sizes for ACL reconstruction**
Beyzadeoglu T., AKGÜN U., Tasdelen N., Karahan M.
KNEE SURGERY SPORTS TRAUMATOLOGY ARTHROSCOPY, vol.20, no.7, pp.1293-1297, 2012 (SCI-Expanded)
- X. **Adhesion reduction after knee surgery in a rat model by Mitomycin C**
KOCAOĞLU B., AKGÜN U., Nalbantoglu U., Poyanli O., Karahan M.
KNEE SURGERY SPORTS TRAUMATOLOGY ARTHROSCOPY, vol.19, no.1, pp.94-98, 2011 (SCI-Expanded)
- XI. **Measurement of human Gracilis muscle isometric forces as a function of knee angle, intraoperatively**
Yucesoy C. A., Ates F., AKGÜN U., Karahan M.
JOURNAL OF BIOMECHANICS, vol.43, no.14, pp.2665-2671, 2010 (SCI-Expanded)
- XII. **A basic arthroscopy course based on motor skill training**
Unalan P. C., Akan K., Orhun H. D., AKGÜN U., Poyanli O., Baykan A., Yavuz Y., Beyzadeoglu T., Nuran R., KOCAOĞLU B., et al.
KNEE SURGERY SPORTS TRAUMATOLOGY ARTHROSCOPY, vol.18, no.10, pp.1395-1399, 2010 (SCI-Expanded)
- XIII. **Effect of partial medial meniscectomy on the proprioceptive function of the knee**

- Karahan M., KOCAOĞLU B., Cabukoglu C., AKGÜN U., Nuran R.
ARCHIVES OF ORTHOPAEDIC AND TRAUMA SURGERY, vol.130, no.3, pp.427-431, 2010 (SCI-Expanded)
- XIV. **The Pretzel knot: a new simple locking slip-knot**
Karahan M., AKGÜN U., Espregueira-Mendes J.
KNEE SURGERY SPORTS TRAUMATOLOGY ARTHROSCOPY, vol.18, no.3, pp.412-414, 2010 (SCI-Expanded)
- XV. **Effect of sequential cutting of the anterior cruciate ligament bundles on tibial rotation during the Lachman test**
Tatar Y., Christel P., Akgün U., Demirel B., Karahan M., Nuran R., Aydın A.
Knee Surgery Sports Traumatology Arthroscopy, vol.18, pp.201, 2010 (SCI-Expanded)
- XVI. **Modified Fulkerson osteotomy in recurrent patellofemoral dislocations**
AKGÜN U., Nuran R., Karahan M.
ACTA ORTHOPAEDICA ET TRAUMATOLOGICA TURCICA, vol.44, no.1, pp.27-35, 2010 (SCI-Expanded)
- XVII. **Preventing blood-induced joint damage with the use of intra-articular iron chelators: an experimental study in rabbits**
KOCAOĞLU B., AKGÜN U., EROL B., Karahan M., Yalcin S.
ARCHIVES OF ORTHOPAEDIC AND TRAUMA SURGERY, vol.129, no.11, pp.1571-1575, 2009 (SCI-Expanded)
- XVIII. **Dislocation of Os Trigonum Presenting as a Loose Body in the Ankle**
KOCAOĞLU B., AKGÜN U., Nuran R., Karahan M.
JOURNAL OF FOOT & ANKLE SURGERY, vol.48, no.2, pp.215-219, 2009 (SCI-Expanded)
- XIX. **Correlation of basic motor skills with arthroscopic experience**
Karahan M., Unalan P. C., Bozkurt S., Odabas I., AKGÜN U., Cifcili S., Lobenhoffer P., Aydın A. T.
ACTA ORTHOPAEDICA ET TRAUMATOLOGICA TURCICA, vol.43, no.1, pp.49-53, 2009 (SCI-Expanded)
- XX. **A case of multiple congenital anomalies including agenesis of the anterior cruciate ligament**
Ergun S., Karahan M., AKGÜN U., KOCAOĞLU B.
ACTA ORTHOPAEDICA ET TRAUMATOLOGICA TURCICA, vol.42, no.5, pp.373-376, 2008 (SCI-Expanded)
- XXI. **Full recovery of muscle function after delayed primary repair of deltoid muscle detachment**
AKGÜN U., KOCAOĞLU B., Karahan M.
INTERNATIONAL JOURNAL OF SHOULDER SURGERY, vol.2, no.4, pp.79-82, 2008 (SCI-Expanded)
- XXII. **Possible reflex pathway between medial meniscus and semimembranosus muscle: an experimental study in rabbits**
AKGÜN U., KOCAOĞLU B., KOCASOY ORHAN E., BASLO M. B., Karahan M.
KNEE SURGERY SPORTS TRAUMATOLOGY ARTHROSCOPY, vol.16, no.9, pp.809-814, 2008 (SCI-Expanded)
- XXIII. **Direction of the load on the elbow of the ball blocking handball goalie**
AKGÜN U., Karahan M., TİRYAKİ Ç., EROL B., Engebretsen L.
KNEE SURGERY SPORTS TRAUMATOLOGY ARTHROSCOPY, vol.16, no.5, pp.522-530, 2008 (SCI-Expanded)
- XXIV. **Tuberculosis of the knee joint: a case report**
Akguen U., EROL B., Cimsit C., Karahan M.
ACTA ORTHOPAEDICA ET TRAUMATOLOGICA TURCICA, vol.42, no.3, pp.214-218, 2008 (SCI-Expanded)
- XXV. **Superior excursion of the humeral head: A diagnostic tool in rotator cuff tear surgery**
Bezer M., Yildirim Y., AKGÜN U., EROL B., Guven O.
JOURNAL OF SHOULDER AND ELBOW SURGERY, vol.14, no.4, pp.375-379, 2005 (SCI-Expanded)

Articles Published in Other Journals

- I. **Clinical outcome comparison of suprapectoral and subpectoral tenodesis of the long head of the biceps with concomitant rotator cuff repair: A systematic review**
Ergün S., Cırdı Y. U., Baykan S. E., AKGÜN U., Karahan M.
Shoulder and Elbow, vol.14, no.1, pp.6-15, 2022 (Scopus)
- II. **The Clinical and Biomechanical Performance of All-Suture Anchors: A Systematic Review.**
Ergün S., Akgün U., Barber F. A., Karahan M.

Arthroscopy, sports medicine, and rehabilitation, vol.2, no.3, 2020 (Peer-Reviewed Journal)

III. **[Approach to cartilage lesions and algorithm for treatment].**

Karahan M., Akgün U., Nuran R.

Acta orthopaedica et traumatologica turcica, pp.43-7, 2007 (Scopus)

IV. **[Primary surgical repair with the Krackow technique combined with plantaris tendon augmentation in the treatment of acute Achilles tendon ruptures].**

Akgün U., Erol B., Karahan M.

Acta orthopaedica et traumatologica turcica, vol.40, no.3, pp.228-33, 2006 (Scopus)

Books & Book Chapters

I. **Biomechanics of failure of reverse shoulder arthroplasty in rotator cuff tear arthropathy**

Ergün S., Akgün U., Karahan M.

in: Massive and Irreparable Rotator Cuff Tears, Sampaio Gomes,N.,Kovačič,L.,Martetschläger,F.,Milano, Editor, Springer, London/Berlin , Berlin, pp.339-344, 2020

II. **Soft Tissue Procedures: Indications, Algorithm from imaging to decision making**

Ergün S., Akgün U., Karahan M.

in: 360° Around Shoulder Instability, Brzóska,R.,Milano,G.,Randelli,P.S.,Kovačič,L., Editor, Springer, London/Berlin , Berlin, pp.249-258, 2020

III. **Knots in Orthopedic Study**

Akgün U. (Editor)

Springer, London/Berlin , Berlin, 2018

IV. **Biological Properties of Suture Materials**

BAŞCI O., AKGÜN U., Barber F. A.

in: Knots in Orthopedic Surgery, Umut Akgun, Mustafa Karahan, Pietro S. Randelli, João Espregueira-Mendes, Editor, Springer, Berlin, pp.11-20, 2018

V. **Defining Essential Skills**

Tuijthof, G. J. M., Ragone V., Horeman T., Akgün U., Randelli P. S.

in: Motor Skills Training in Orthopedic Sports Medicine, Karahan Mustafa,Espregueira-Mendes João,Akan H. Kaya, Editor, Springer-Verlag , Berlin, pp.43-52, 2017

VI. **Early Versus Delayed ACL Reconstruction: Why Delayed Surgery Is Our Preferred Choice**

Salzler M. J., Akgün U., Karahan M., Harner C. D.

in: Controversies in the Technical Aspects of ACL Reconstruction, Nakamura N.,Zaffagnini S.,Marx R.G.,Musahl V., Editor, Springer-Verlag , Berlin, pp.27-33, 2017

VII. **İçten-Dışa Artroskopik Menisküs Tamiri**

KOCABEY Y., AKGÜN U., DİKMEN G.

in: MENİSKÜS, Halit Pınar, Uğur Haklar, Hasan Tatari, Yavuz Kocabey, Mehmet Erdil, Mehmet Aşık, Editor, İSTANBUL TIP KİTABEVLERİ, İstanbul, pp.69-78, 2016

VIII. **Theory on Psychomotor Learning Applied to Arthroscopy**

Van Den Dobbelsteen J. J., Karahan M., Akgün U.

in: Effective Training of Arthroscopic Skills, Mustafa Karahan,Gino M.M.J. Kerkhoffs,Pietro Randelli,Gabriëlle J.M. Tuijthof, Editor, Springer, London/Berlin , Berlin, pp.17-32, 2015

IX. **Calcific Tendonitis**

Karahan M., Akgün U., Kocaoğlu B.

in: Shoulder Arthroscopy, Milano Giuseppe,Grasso Andrea, Editor, Springer-Verlag , London, pp.355-363, 2014

X. **Anterior Shoulder Instability**

Karahan M., Akgün U., Nuran R.

in: Sports Injuries, Prevention, Diagnosis, Treatment and Rehabilitation, Mahmut Nedim Doral,Karlsson Jon, Editor, Springer-Verlag , Berlin, pp.133-141, 2012

Refereed Congress / Symposium Publications in Proceedings

- I. **Radyofrekans ile subakromiyel dekompresyon sırasında, ısıtılmış yıkama sıvısı kullanımı, subakromiyel boşluktaki ısıyı zararlı seviyelere ulaştırmaz**
GERELİ H. A., KOCAOĞLU B., AKGÜN U., KIYAK G., nalbantoğlu u., TÜRKMEN İ. M.
24. Ulusal Türk Ortopedi ve Travmatoloji Kongresi, Turkey, 12 - 16 October 2014
- II. **The effect of hyperbaric oxygen therapy on synovial repair mechanism in cartilage lesions experimental study**
AKGÜN U., KOCAOĞLU B., BAŞÇI O., ZEREN S., SAĞLICAN Y., CİMŞİT M., BAŞDEMİR G., ERGUN S., KARAHAN M., TÜRKMEN İ. M.
14.ESSKA Congress, Oslo, Norway, 9 - 12 October 2010
- III. **İntraartiküler pH değişikliğinin kıkırdak metabolizması üzerine etkisi**
ERGÜN S., KOCAOĞLU B., AKGÜN U., NURAN R., BAŞÇI O., Karahan M.
21. Ulusal Türk Ortopedi ve Travmatoloji Kongresi, Turkey, 3 - 08 November 2009
- IV. **İntraoperatif kas kuvvet - uzunluk ilişkisinin doğrudan ölçümü - TÜBİTAK destekli proje 105S483 (SBAG-3290)**
YÜCESOY C. A., Karahan M., ATEŞ F., BAŞÇI O., AKGÜN U., AĞIR İ.
21. Ulusal Türk Ortopedi ve Travmatoloji Kongresi, Turkey, 3 - 08 November 2009
- V. **The effect of the platelet rich fibrin matrix on the entegration of tendon to bone**
AĞIR İ., KOCAOĞLU B., AKGÜN U., BAŞÇI O., KARAHAN M.
IX. Türkiye Spor Yaralanmaları Artroskopisi Ve Diz Cerrahisi Kongresi, Turkey, 14 - 18 October 2008

Activities in Scientific Journals

ORTHOPAEDIC JOURNAL OF SPORTS MEDICINE, Committee Member, 2022 - Continues
Acta Orthopaedica Et Traumatologica Turcica, Editor, 2019 - Continues

Memberships / Tasks in Scientific Organizations

Turkish Society of Shoulder and Elbow Surgery, Member, 2007 - Continues, Turkey
Turkey Sports Traumatology, Arthroscopy and Knee Surgery Association , Member, 2007 - Continues, Turkey
Turkish Orthopedics and Traumatology Association, Member, 2007 - Continues, Turkey

Scientific Refereeing

AMERICAN JOURNAL OF SPORTS MEDICINE, SCI Journal, July 2022
ORTHOPAEDIC JOURNAL OF SPORTS MEDICINE, Journal Indexed in SCI-E, July 2022
ACTA ORTHOPAEDICA ET TRAUMATOLOGICA TURCICA, Journal Indexed in SCI-E, July 2022

Tasks In Event Organizations

Akgün U., European Basic Arthroscopy Course, Scientific Congress, İstanbul, Turkey, Kasım 2019

Metrics

Publication: 59
Citation (WoS): 92

Citation (Scopus): 108

H-Index (WoS): 6

H-Index (Scopus): 6

Awards

Karahan M., Christel P., Akgün U., Tatar Y., Nuran R., Aydın A. T., En İyi Bildiri Ödülü (Diz Cerrahisi), 22. Ulusal Türk Ortopedi Ve Travmatoloji Kongresi, October 2011

Akgün U., The Top 10 Electronic Poster Presentation Award, 8th Biennial ISAKOS Congress, Isakos, May 2011

Karahan M., Ünalın P. C., Bozkurt S., Odabaş İ., Akgün U., Çifçili S., Lobenhoffer P., Aydın A. T., Akif Şakir Şakar Bilim Ödülleri, Türk Ortopedi Ve Travmatoloji Derneği, April 2010

Akgün U., Başcı O., Çimşit M., Zeren S., Sağlıcan Y., Kocaoğlu B., Başdemir G., Karahan M., Zetterstroem Ödülü, European Underwater And Baromedical Society, January 2010

Akgün U., Kocaoğlu B., Kocasoy Orhan E., Baslo M. B., Karahan M., TUSYAD 20.Yıl Deneysel Çalışma Ödülü, Tusyad, September 2008