

## Assoc. Prof. HALİL GÖKHAN DEMİRKİRAN

### Personal Information

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### Education Information

Expertise In Medicine, Hacettepe University, Hacettepe Tıp Fakültesi, Ortopedi Ve Travmatoloji, Turkey 2001 - 2005

### Research Areas

Medicine, Health Sciences, Surgery Medicine Sciences, Orthopedics and Traumatology

### Academic Titles / Tasks

Associate Professor, Hacettepe University, Tıp Fakültesi, Cerrahi Tıp Bilimleri Bölümü, 2015 - Continues

Assistant Professor, Hacettepe University, Tıp Fakültesi (İngilizce), Cerrahi Tıp Bilimleri Bölümü, 2012 - 2015

Lecturer, Hacettepe University, Tıp Fakültesi, Cerrahi Tıp Bilimleri Bölümü, 2011 - 2012

### Courses

bel ağrısı, Undergraduate, 2016 - 2017

### Published journal articles indexed by SCI, SSCI, and AHCI

- I. **The Effect of Apical Vertebra Position on Growing Rod Treatment: A Clinical and Finite Element Study**  
DURŞUN G., Cetik R. M. , GÜZEL D., DEMİRKİRAN H. G. , Ramazanov R., Dede O., GÜRSEES E., YAZICI M.  
JOURNAL OF PEDIATRIC ORTHOPAEDICS, vol.42, no.6, 2022 (Journal Indexed in SCI)
- II. **Clinical Outcomes of 3-column Osteotomy at Growing Rod Graduation**  
ÇAYLI C., DURŞUN G., ÇETİK R. M. , Ramazanov R., DEMİRKİRAN H. G. , AYVAZ M., YAZICI M.  
JOURNAL OF PEDIATRIC ORTHOPAEDICS, vol.41, no.9, pp.537-542, 2021 (Journal Indexed in SCI)
- III. **Posterior Instrumentation and Fusion in Multiple-segment Adolescent Congenital Scoliosis: When Are Posterior Column and Concave Rib Osteotomies Needed?**  
YUCEKUL A., Ramazanov R., Olgun Z. D. , AYVAZ M., Demirkiran G., Bekmez S., YAZICI M.  
JOURNAL OF PEDIATRIC ORTHOPAEDICS, vol.41, no.7, 2021 (Journal Indexed in SCI)
- IV. **Improving Safety and Efficacy in the Surgical Management of Low-tone Neuromuscular Scoliosis: Integrated Approach With a 2-attending Surgeon Operative Team and Modified Anesthesia Protocol**  
Ozhan M. O. , BAKIRCIOĞLU S., Bekmez S., Olgun Z. D. , Suzer A., DEMİRKİRAN H. G. , YAZICI M.  
JOURNAL OF PEDIATRIC ORTHOPAEDICS, vol.41, no.1, 2021 (Journal Indexed in SCI)
- V. **Growing-rod Graduates With Idiopathic Early-onset Scoliosis Have Comparable Exercise Tolerance to Patients With Surgically Treated Adolescent Idiopathic Scoliosis**  
ÇELEBİOĞLU E., Yataganbaba A., Bekmez S., ÖNCEL A., DEGİRMENCİ C., TEKİN F., Demirkiran G., Yalcin E., Demir A.

U. , YAZICI M.

JOURNAL OF PEDIATRIC ORTHOPAEDICS, vol.40, no.8, 2020 (Journal Indexed in SCI)

- VI. **Response to letter to editor regarding 'In-brace alteration of pulmonary functions in adolescents wearing a brace for idiopathic scoliosis' by Yagci et al. (2019)**  
YAĞCI G., Demirkiran G., YAKUT Y.  
PROSTHETICS AND ORTHOTICS INTERNATIONAL, vol.44, no.2, pp.100-101, 2020 (Journal Indexed in SCI)
- VII. **In-brace alterations of pulmonary functions in adolescents wearing a brace for idiopathic scoliosis**  
YAĞCI G., Demirkiran G., Yakut Y.  
PROSTHETICS AND ORTHOTICS INTERNATIONAL, vol.43, no.4, pp.434-439, 2019 (Journal Indexed in SCI)
- VIII. **Spinal Instrumentation in Growing Children Retards the Natural Development of Pelvic Incidence**  
Bekmez S., DEMİRKIRAN H. G. , Dede O., Atici Y., Balioglu M. B. , Krut M., Ward T., YAZICI M.  
JOURNAL OF PEDIATRIC ORTHOPAEDICS, vol.39, no.3, pp.141-145, 2019 (Journal Indexed in SCI)
- IX. **Is Magnetically Controlled Growing Rod the Game Changer in Early-onset Scoliosis? A Preliminary Report**  
Bekmez S., Afandiyev A., Dede O., KARAIŞMAİLOĞLU E., DEMİRKIRAN H. G. , YAZICI M.  
JOURNAL OF PEDIATRIC ORTHOPAEDICS, vol.39, no.3, 2019 (Journal Indexed in SCI)
- X. **Pull-out of Upper Thoracic Pedicle Screws Can Cause Spinal Canal Encroachment in Growing Rod Treatment**  
BEKMEZ S., KOCYİĞİT A., OLGUN Z. D. , AYVAZ M., DEMİRKIRAN H. G. , KARAAGAĞLU E., YAZICI M.  
JOURNAL OF PEDIATRIC ORTHOPAEDICS, vol.38, no.7, 2018 (Journal Indexed in SCI)
- XI. **Surgical Management of Progressive Thoracolumbar Kyphosis in Mucopolysaccharidosis: Is a Posterior-only Approach Safe and Effective?**  
Bekmez S., DEMİRKIRAN H. G. , Dede O., Ismayilov V., YAZICI M.  
JOURNAL OF PEDIATRIC ORTHOPAEDICS, vol.38, no.7, pp.354-359, 2018 (Journal Indexed in SCI)
- XII. **Pedicle Subtraction Osteotomy Versus Multiple Posterior Column Osteotomies in Severe and Rigid Neuromuscular Scoliosis**  
BEKMEZ S., ÖZHAN M., Olgun Z. D. , SUZER A., AYVAZ M., DEMİRKIRAN H. G. , Karaagaoglu E., YAZICI M.  
SPINE, vol.43, no.15, 2018 (Journal Indexed in SCI)
- XIII. **Congenital unilateral absence of the upper extremity may give rise to a specific kind of thoracolumbar curve**  
Olgun Z. D. , Demirkiran G., Polly D., YAZICI M.  
JOURNAL OF PEDIATRIC ORTHOPAEDICS-PART B, vol.27, no.2, pp.180-183, 2018 (Journal Indexed in SCI)
- XIV. **Health-Related Quality of Life in Early-Onset Scoliosis Patients Treated Surgically EOSQ Scores in Traditional Growing Rod Versus Magnetically Controlled Growing Rods**  
Doany M., Olgun D., Kınıklı G. İ. , Bekmez Ş., Kocyigit A., Demirkiran G., Karaagaoglu A. E. , Yazıcı M.  
SPINE, vol.43, pp.148-153, 2018 (Journal Indexed in SCI)
- XV. **Implant Complications After Magnetically Controlled Growing Rods for Early Onset Scoliosis: A Multicenter Retrospective Review**  
Choi E., Yaszay B., Mundis G., Hosseini P., Pawelek J., Alanay A., Berk H., Cheung K., Demirkiran G., Ferguson J., et al.  
JOURNAL OF PEDIATRIC ORTHOPAEDICS, vol.37, no.8, 2017 (Journal Indexed in SCI)
- XVI. **Unplanned Reoperations in Magnetically Controlled Growing Rod Surgery for Early Onset Scoliosis With a Minimum of Two-Year Follow-Up**  
Kwan K. Y. H. , ALANAY A., YAZICI M., Demirkiran G., Helenius I., Nnadi C., Ferguson J., Akbarnia B. A. , Cheung J. P. Y. , Cheung K. M. C.  
SPINE, vol.42, no.24, 2017 (Journal Indexed in SCI)
- XVII. **Graduation Protocol After Growing-Rod Treatment: Removal of Implants without New Instrumentation Is Not a Realistic Approach**  
Kocyigit I. A. , Olgun Z. D. , DEMİRKIRAN H. G. , AYVAZ M., YAZICI M.  
JOURNAL OF BONE AND JOINT SURGERY-AMERICAN VOLUME, vol.99, no.18, pp.1554-1564, 2017 (Journal Indexed in SCI)
- XVIII. **Thoracic Spine Growth Revisited How Accurate Is the Dimeglio Data?**

- Dede O, BÜYÜKDOĞAN K, DEMİRKIRAN H. G. , AKPINAR E, YAZICI M.  
SPINE, vol.42, no.12, pp.917-920, 2017 (Journal Indexed in SCI)
- XIX. **Convex Hemiepiphysiodesis: Posterior/anterior in-situ Versus Posterior-only With Pedicle Screw Instrumentation: An Experimental Simulation in Immature Pigs**  
Bekmez S, DEMİRKIRAN H. G. , YILMAZ G., Akel I, ATILLA P, MÜFTÜOĞLU S. F. , YAZICI M., Alanay A.  
JOURNAL OF PEDIATRIC ORTHOPAEDICS, vol.36, no.8, pp.847-852, 2016 (Journal Indexed in SCI)
- XX. **Health Related Quality of Life in Early Onset Scoliosis Patients Treated Surgically EOSQ Scores in Traditional Growing Rod vs Magnetically Controlled Growing Rods**  
YAZICI M., DEMİRKIRAN H. G. , Olgun D., KINIKLI G. İ. , Bekmez Ş., Berktaş M.  
Spine Deformity, vol.4, pp.455, 2016 (Journal Indexed in SCI Expanded)
- XXI. **Magnetically controlled Growing Rods for Early-onset Scoliosis: A Multicenter Study of 23 Cases With Minimum 2 years Follow-up**  
Hosseini P., Pawelek J., Mundis G. M. , Yaszay B., Ferguson J., Helenius I., Cheung K. M. , Demirkiran G., Alanay A., Senkoylu A., et al.  
SPINE, vol.41, no.18, pp.1456-1462, 2016 (Journal Indexed in SCI)
- XXII. **Utilizing the "Stable-to-be Vertebra" Saves Motion Segments in Growing Rods Treatment for Early-Onset Scoliosis**  
Dede O., Demirkiran G., Bekmez S., Sturm P. F. , YAZICI M.  
JOURNAL OF PEDIATRIC ORTHOPAEDICS, vol.36, no.4, pp.336-342, 2016 (Journal Indexed in SCI)
- XXIII. **Adult Spinal Deformity Correction with Multi-level Anterior Column Releases Description of a New Surgical Technique and Literature Review**  
Demirkiran G., Theologis A. A. , Pekmezci M., Ames C., Deviren V.  
CLINICAL SPINE SURGERY, vol.29, no.4, pp.141-149, 2016 (Journal Indexed in SCI)
- XXIV. **Safety and Efficacy of Apical Resection Following Growth-friendly Instrumentation in Myelomeningocele Patients With Gibbus: Growing Rod Versus Luque Trolley**  
Bas C. E. , Preminger J., Olgun Z. D. , Demirkiran G., Sponseller P., YAZICI M.  
JOURNAL OF PEDIATRIC ORTHOPAEDICS, vol.35, no.8, 2015 (Journal Indexed in SCI)
- XXV. **Integrity of Damage Control Posterior Spinal Fusion Constructs for Patients With Polytrauma: A Biomechanical Investigation**  
Pekmezci M., Herfat S., Theologis A. A. , Viscogliosi P., Demirkiran G., McClellan R. T. , Ames C.  
SPINE, vol.40, no.23, 2015 (Journal Indexed in SCI)
- XXVI. **Skolyoz cerrahisi sonrası gevşeme eğitiminin erken dönem ağrı ve uyku kalitesi üzerine etkileri**  
GÜNEY H., SARIAL C., KINIKLI G. İ. , ÖNAL S., DEMİRKIRAN H. G. , YÜKSEL İ.  
Acta Orthopaedica Et Traumatologica Turcica, vol.49, pp.213, 2015 (Journal Indexed in SCI Expanded)
- XXVII. **The Evolution of Sagittal Spinal Alignment in Sitting Position During Childhood**  
KAMACI S., YÜCEKUL A., Demirkiran G., Berktaş M., YAZICI M.  
SPINE, vol.40, no.13, 2015 (Journal Indexed in SCI)
- XXVIII. **Self-growing Instrumentation With Gliding Connectors for Collapsing Spine Deformities in Children: A Novel Technique**  
Dede O., Demirkiran G., YAZICI M.  
JOURNAL OF PEDIATRIC ORTHOPAEDICS, vol.35, no.4, pp.367-373, 2015 (Journal Indexed in SCI)
- XXIX. **Reliability and validity of the adapted Turkish version of the early-onset scoliosis-24-item questionnaire (EOSQ-24)**  
DEMİRKIRAN H. G. , KINIKLI G. İ. , OLGUN Z. D. , Kamaci S., Yavuz Y., VITALE M. G. , YAZICI M.  
Journal of Pediatric Orthopaedics, vol.35, no.8, pp.804-809, 2015 (Journal Indexed in SCI)
- XXX. **Serial Derotational Casting in Congenital Scoliosis as a Time-buying Strategy**  
DEMİRKIRAN H. G. , Bekmez S., Celilov R., AYVAZ M., Dede O., YAZICI M.  
JOURNAL OF PEDIATRIC ORTHOPAEDICS, vol.35, no.1, pp.43-49, 2015 (Journal Indexed in SCI)
- XXXI. **Local Intrawound Vancomycin Powder Decreases the Risk of Surgical Site Infections in Complex Adult Deformity Reconstruction A Cost Analysis**  
Theologis A. A. , Demirkiran G., Callahan M., Pekmezci M., Ames C., Deviren V.

- SPINE, vol.39, no.22, pp.1875-1880, 2014 (Journal Indexed in SCI)
- XXXII. **The Effect of Dual Growing Rod Instrumentation on the Apical Vertebral Rotation in Early-onset Idiopathic Scoliosis**  
KAMACI S., Demirkiran G., Ismayilov V., Olgun Z. D. , YAZICI M.  
JOURNAL OF PEDIATRIC ORTHOPAEDICS, vol.34, no.6, pp.607-612, 2014 (Journal Indexed in SCI)
- XXXIII. **Selective estrogen receptor modulation prevents scoliotic curve progression: radiologic and histomorphometric study on a bipedal C57Bl6 mice model**  
Demirkiran G., Dede O., Yalcin N., Akel I., Marcucio R., Acaroglu E.  
EUROPEAN SPINE JOURNAL, vol.23, no.2, pp.455-462, 2014 (Journal Indexed in SCI)
- XXXIV. **2014 Update on the 'growing spine surgery' for young children with scoliosis**  
Dede O., Demirkiran G., YAZICI M.  
CURRENT OPINION IN PEDIATRICS, vol.26, no.1, pp.57-63, 2014 (Journal Indexed in SCI)
- XXXV. **Transverse sacral fractures and concomitant late-diagnosed cauda equina syndrome**  
Bekmez S., Demirkiran G., Caglar O., Akel I., Acaroglu E.  
ULUSAL TRAVMA VE ACIL CERRAHI DERGISI-TURKISH JOURNAL OF TRAUMA & EMERGENCY SURGERY, vol.20, no.1, pp.71-74, 2014 (Journal Indexed in SCI)
- XXXVI. **Posterior all pedicle screw instrumentation combined with multiple chevron and concave rib osteotomies in the treatment of adolescent congenital kyphoscoliosis**  
AYVAZ M., OLGUN d., DEMİRKIRAN H. G. , ALANAY A., YAZICI M.  
Spine Journal, vol.14, pp.11-19, 2014 (Journal Indexed in SCI Expanded)
- XXXVII. **Fusionless Instrumentation in Growing Spine and Adjacent Segment Problems An Experimental Study in Immature Pigs**  
Yilgor C., DEMİRKIRAN H. G. , ARITAN S., KÖSEMEHMETOĞLU K., Daglioglu K., Isikhan S., YAZICI M.  
SPINE, vol.38, no.25, pp.2156-2164, 2013 (Journal Indexed in SCI)
- XXXVIII. **Evaluation of acetabular development after Dega acetabuloplasty in developmental dysplasia of the hip**  
Aksoy C., YILGÖR İ. Ç. , Demirkiran G., ÇAĞLAR Ö.  
JOURNAL OF PEDIATRIC ORTHOPAEDICS-PART B, vol.22, no.2, pp.91-95, 2013 (Journal Indexed in SCI)
- XXXIX. **The Effect of Reduction Mammoplasty on the Vertebral Column: A Radiologic Study**  
Karaaslan O., DEMİRKIRAN H. G. , Silistreli O., Sonmez E., Bedir Y. K. , Can M., Caliskan G., Aslan C., Oral M. A. , Kankaya Y.  
SCIENTIFIC WORLD JOURNAL, 2013 (Journal Indexed in SCI)
- XL. **Acetabular index values in healthy Turkish children between 6 months and 8 years of age: a cross-sectional radiological study**  
Akel I., Songur M., KARAHAN S., Yilmaz G., DEMİRKIRAN H. G. , Tumer Y.  
ACTA ORTHOPAEDICA ET TRAUMATOLOGICA TURCICA, vol.47, no.1, pp.38-42, 2013 (Journal Indexed in SCI)
- XLI. **Long-segment posterior instrumentation and fusion with freeze-dried allograft in congenital scoliosis**  
DEMİRKIRAN H. G. , Akel I., YILMAZ G., AYVAZ M., Alanay A., YAZICI M.  
ACTA ORTHOPAEDICA ET TRAUMATOLOGICA TURCICA, vol.46, no.4, pp.275-280, 2012 (Journal Indexed in SCI)

## Articles Published in Other Journals

- I. **Body Image Disturbance in Patients with Adolescent Idiopathic Scoliosis: Correlation with Deformity Perception, Trunk Aesthetic, and Quality of Life**  
KINIKLI G. İ. , BAZANCİR APAYDIN Z., BEYDAĞI M. G. , BOZGEYİK S., GÜNEY DENİZ H., DEMİRKIRAN H. G.  
Journal of Exercise Therapy and Rehabilitation, 2022 (Refereed Journals of Other Institutions)
- II. **Sagittal spinal alignment after total hip arthroplasty for neglected high hip dysplasia: does changing the distorted mechanics of the hip normalize spinal alignment?**  
ÇAĞLAR Ö., Isik S., KAYMAKOĞLU M., DEMİRKIRAN H. G. , ATİLLA B., Tokgozoglu M., Yazici M.

Spine Deformity, vol.9, no.1, pp.221-229, 2021 (Journal Indexed in ESCI)

III. **RELATIONSHIP BETWEEN TRUNK ASSESSMENTS AND QUALITY OF LIFE IN ADOLESCENT IDIOPATHIC SCOLIOSIS FOLLOWING SURGERY**

Öztürk F., Güney Deniz H., Ayvaz M., Demirkıran H. G. , Kınıklı G. İ.

Türk Fizyoterapi ve Rehabilitasyon Dergisi, vol.31, no.1, pp.36-44, 2020 (Journal Indexed in ESCI)

IV. **TEAM APPROACH: CONTEMPORARY TREATMENT OF CONGENITAL SCOLIOSIS**

Karaarslan U. C. , Gurel I. E. , Yucekul A., DEMİRKIRAN H. G. , Samdani A., Yilgor C., ALANAY A.

JBJS REVIEWS, vol.7, no.10, 2019 (Journal Indexed in ESCI)

V. **Adölesan İdiyopatik Skolyozlu Bireylerde Posteriyor Enstrümantasyon Füzyon Cerrahisi Sonrası Gövde Kas Enduransı, Esneklik ve Yaşam Kalitesinin İncelenmesi**

Öztürk F., Güney Deniz H., Ayvaz M., Demirkıran H. G. , Kılınç H., Kınıklı G. İ.

Sağlık Bilimleri ve Meslekleri Dergisi /Journal of Health Sciences and Professions, vol.6, 2019 (Other Refereed National Journals)

VI. **Lumbopelvic fusion with a new fixation technique in lumbosacral agenesis: three cases**

YAZICI M., Akel I., DEMİRKIRAN H. G.

JOURNAL OF CHILDRENS ORTHOPAEDICS, vol.5, no.1, pp.55-61, 2011 (Journal Indexed in ESCI)

VII. **Is decreased bone mineral density associated with development of scoliosis? A bipedal osteopenic rat model**

Dede O., Akel I., Demirkıran G., Yalcin N., Marcucio R., Acaroglu E.

SCOLIOSIS AND SPINAL DISORDERS, vol.6, 2011 (Journal Indexed in ESCI)

## Refereed Congress / Symposium Publications in Proceedings

I. **Adölesan İdiyopatik Skolyozlu Bireylerde Eğrilik Paternine Göre Beden İmajı Rahatsızlık Düzeyinin Araştırılması**

KINIKLI G. İ. , BAZANCİR APAYDIN Z., BEYDAĞI M. G. , BOZGEYİK S., GÜNEY DENİZ H., DEMİRKIRAN H. G.

30. Ulusal Ortopedi ve Travmatoloji Kongresi, V. Ortopedi-Fizyoterapi Ortak Sempozyumu, Antalya, Turkey, 9 - 12 November 2021, vol.55, pp.300-371

II. **Posteriyor Füzyon Cerrahisi Sonrası Adölesan İdiyopatik Skolyozlu Bireylerde Gövde Kas Enduransı Ve Yaşam Kalitesinin İncelenmesi**

ÖZTÜRK F., GÜNEY DENİZ H., DEMİRKIRAN H. G. , AYVAZ M., KINIKLI G. İ.

10. Uluslararası Protez Ortez Kongresi, Ankara, Turkey, 18 - 20 October 2018

III. **Erken Başlangıçlı Skolyozda Manyetik Kontrollü Büyüyen Rod Uygulaması Sayesinde Oyunun Kuralları Değişti Mi?**

BEKMEZ Ş., AFANDİYEV A., DEDE O., DEMİRKIRAN H. G. , AYVAZ M., YAZICI M.

2.Ulusal Çocuk Ortopedisi Kongresi, İzmir, Turkey, 16 - 18 March 2018, pp.28-29

IV. **Posteriyor Füzyon Cerrahisi Sonrası Adölesan İdiyopatik Skolyozlu Çocukların Gövde Kas Enduransı ve Statik Ayakta Durma Dengesinin İncelenmesi: Pilot Çalışma**

ÖZTÜRK F., KINIKLI G. İ. , ÖZÇADIRCI A., AYVAZ M., DEMİRKIRAN H. G.

Uluslararası Katılımlı 4. Pediatrik Rehabilitasyon Kongresi, İstanbul, Turkey, 20 - 22 October 2017, vol.4, pp.16

V. **Health Related Quality of Life in Early Onset Scoliosis Patients Treated Surgically EOSQ Scores in Traditional Growing Rod vs Magnetically Controlled Growing Rods**

YAZICI M., DEMİRKIRAN H. G. , OLGUN D., KINIKLI G. İ. , BEKMEZ Ş., BERKTAŞ M.

51st SRS Annual Meeting Course, Czech Republic, 21 - 24 September 2016, vol.4, pp.455

VI. **Skolyoz cerrahisi sonrası gevşeme eğitiminin erken dönem ağrı ve uyku kalitesi üzerine etkileri**

GÜNEY H., SARIAL C., KINIKLI G. İ. , ÖNAL S., DEMİRKIRAN H. G. , YÜKSEL İ.

XXV. Ulusal Türk Ortopedi ve Travmatoloji Kongresi, Antalya, Turkey, 27 October - 01 November 2015, vol.49, pp.213

VII. **Does a Growing Rod Cause Degeneration and Secondary Deformity in the Adjacent Segment**

YILGÖR İ. Ç. , ARITAN S., DEMİRKIRAN H. G. , DAĞLIOĞLU Y. K. , KÖSEMEHMETOĞLU K., YAZICI M.

EPOS 31st Annual Meeting, 18 - 21 April 2012, vol.6, pp.1-26

- VIII. **Does growing rod cause degeneration and secondary deformity in the adjacent segment**  
YILGÖR İ. Ç. , ARITAN S., DEMİRKIRAN H. G. , DAĞLIOĞLU Y. K. , KÖSEMEHMETOĞLU K., YAZICI M.  
SPINEWEEK 2012, 28 May - 01 June 2012, vol.21, pp.316
- IX. **Effects of the growing rod on the discs and facets of the unfused intermediate segments**  
DEMİRKIRAN H. G. , YILGÖR İ. Ç. , AYVAZ M., KÖSEMEHMETOĞLU K., DAĞLIOĞLU Y. K. , YAZICI M.  
Posna 2012, 16 - 19 May 2012, vol.6, pp.2
- X. **Pelvis kırıklarının tedavisinde perkütan stabilizasyonun sonuçları**  
AYVAZ M., YILMAZ G., DEMİRKIRAN H. G. , GÜVENDİK G. İ. , ACAROĞLU E.  
XX. Milli Türk Ortopedi ve Travmatoloji Kongresi, Ankara, Turkey, 23 - 28 October 2007

## Supported Projects

ŞAR O., YAZICI G., CENGİZ M., DEMİRKIRAN H. G. , Project Supported by Higher Education Institutions, Spinal Implantlı Hastaların Konvansiyonel ve Stereotaktik Radyoterapi Tedavilerinde İmplantın Doz Dağılıma Etkisinin Polimer Jel Tabanlı 3 Boyutlu Dozimetri ile İncelenmesi, 2015 - 2019

## Citations

Total Citations (WOS):349

h-index (WOS):9