

Kaan GÜRBÜZ

Orthopedics &
Traumatology Specialist

Akademic Title

I was born in Kayseri 1979. I am interested in Rhinology, maxillofacial surgery and head and neck surgery

Foreign Languages Skills

English : Reading-Advanced, Writing-Advanced, Speaking-Advanced
Deutsch : Lesen-Fortgeschritten, Schreib-Intermediate, Schlecht sprechen

Additional Education & Certificates

- 1- T.C Sağlık Bakanlığı Kupa Uygulaması Sertifikalı Eğitim Programı-
2017 Kayseri GETATK/12-18
- 2- T.C Sağlık Bakanlığı Sülük Uygulaması Sertifikalı Eğitim Programı-
2017 Kayseri
GETATS/06-03
- 3- T.C Sağlık Bakanlığı Ozon Uygulaması Sertifikalı Eğitim Programı-
2017 Kayseri
GATATO/04-06
- 4- 2th International Tendon Transfers of The Upper Limb on Fresh Frozen Cadaveric Specimens 28-30.01.2016 Thessaloniki/Greece
- 5- Tıbbi Bilimlerde Araştırma Projesi Hazırlama Ve Yürütme Sertifikasyon Eğitimi 23-25 Mayıs 2015 Nevşehir
- 6- 16. Temel Mikrocerrahi Kursu 7-11 Mayıs 2013 Kocaeli
- 7- Deneysel Hayvanları Kullanım Sertifikası 01-11 Mayıs 2014 ERSEM Kayseri
- 8- Türk ASAMİ Derneği Gezici Fellow 06-26 Kasım 2012
- 9- Temel CPR Kursu 6-7 Ekim 2010 Erciyes Üniversitesi Tıp Fakültesi / Kayseri

Profession: Orthopedics & Traumatology Specialist

Degree	Department	Univercity	Year
Licence	Medical School	Marmara University	30/06/2007
Y. Lisans			
Doctorate	Orthopedics & Traumatology	Erciyes University	06/03/2014
Doç. / Prof.			

Ph.D. Thesis / Proficiency Examination / Enactment Title of Expertise Thesis and Advisor:

The Effects of a Flavonoid Namely Icariin on Fracture Healing and Antioxidant Systems: An Experimental Study

ABSTRACT

Objectives: Fracture healing is not always satisfactory with prolongation of the treatment despite the various advancements in orthopedic interventions and medical technologies. Patients are at risk of complications during this prolonged fracture healing period such as pain, re-fracture or infection, and suffer a great psychological and economic burden as a consequence. Icariin is a prenylated flavonol glycoside which has a stimulatory effect on bone tissue. The aim of this experimental study is to evaluate the effects of locally applied icariin on bone fracture healing in femur fractured rat model.

Methods: In this study, 48 Sprague-Dawley rats were used in 8 main study groups (n=6). Rats' right fractured femur comprised study groups while those with left fractured femurs were the control groups. Icariin (2.5, 10 and 25 mg) was applied locally to the right side. The first half of the rats were sacrificed at the 3rd week (n=6) and the rest were sacrificed at the 6th week (n=6) to follow up the early and late stages of the fracture healing. Before being sacrificed all groups' radiological, biochemical and bone mineral density were evaluated. After the rats were sacrificed histopathological examination was performed.

Results: In the biochemical evaluation of plasma the total glutathione value, glutathione peroxidase activity were higher ($p<0.05$) and superoxide dismutase activity was lower in the icariin applied groups compared with the control groups ($p<0.05$). This study revealed that icariin improves fracture healing and also this effect is more prominent when used in higher doses and for longer periods.

Conclusion: Icariin has the potential to be used locally in facilitating of fracture healing in the future. Thus, further studies examining the effects of icariin in clinical settings are warranted.

Keywords: Icariin, femur fracture, fracture healing, rat, flavonoid.

Advisor: Prof. Dr. Mehmet Halıcı

Working Experience:

Title	Work of Experience	Years
Research Asistani	Erciyes University Medical School Orthopedics & Traumatology Department	2008-2014
Specialist	Kayseri Education & Training Hospital	2014-2018
Specialist	Kayseri City Hospital	2018-Continues
Specialist	Arakan Refugee Camp Turkish Field Hospital Balukhal-i Cox Bazaar / Bangladesh	01.06.2018-31.07.2018

Tasks Performed on Projects

Erciyes University BAP Coordination Unit (TTU-2013-4551)

The Effects of a Flavonoid Namely Icariin on Fracture Healing and Antioxidant Systems: An Experimental Study (Researcher)

Memberships in Scientific Organizations

Kemik & Eklem Cerrahisi Derneği

Türk Ortopedi & Travmatoloji Birliği Derneği

Türk El & Üst Extremitte Cerrahisi Derneği

Akade- mic Year	Period	Name of Course	Weekly Hours		Number of students
			Teo- ric	Prac- tice	
2016- 2017	Au- tumn				
	Spring	Nuh Naci Yazgan University - Kayseri Health Sciences Faculty Physiotherapy and Rehabilitation Orthopedics & Traumatology: Anatomy of Hand & Hand Medi- cine	1		44
		Nuh Naci Yazgan University - Kayseri Health Sciences Faculty Physiotherapy and Rehabilitation Orthopedics & Traumatology: Hand tendon injuries	2		44
		Nuh Naci Yazgan University - Kayseri Health Sciences Faculty Physiotherapy and Rehabilitation Orthopedics & Traumatology: EL & Hand Wrist Fractures Treat- ment	2		44
2017- 2018	Au- tumn				
	Spring	Nuh Naci Yazgan University - Kayseri Health Sciences Faculty Nursing and Health Services Ort- hopedics & Traumatology: Mus- culoskeletal System Diseases Surgery & Nursing Care	2		48
		Au- tumn	Nuh Naci Yazgan University - Kayseri Health Sciences Faculty Nursing and Health Services Ort- hopedics & Traumatology : Con- nective Tissue Disease Evaluta- tion and Surgical Intervention	2	
	Spring				

Articles List

A. Articles published in internationally acclaimed journals:

A1. Batin, S., Ozan, F., **Gurbuz, K.**, Koyuncu, S., Vatansever, F., & Uzun, E. (2018). Evaluation of Risk Factors for Second Hip Fractures in Elderly Patients. *Journal of Clinical Medicine Research*, 10(3), 217-220.

A2. Ozan, F., Koyuncu, Ş., **Gürbüz, K.**, Öncel, E. S., & Altay, T. (2017). Radiofrequency Thermal Lesioning and Extracorporeal Shockwave Therapy: A Comparison of Two Methods in the Treatment of Plantar Fasciitis. *Foot & ankle specialist*, 10(3), 204-209.

A3. Ozan, F., GÜRBÜZ, K., Celik, I., DURSUN, Z. B., & Uzun, E. (2017). Evaluation of major and minor lower extremity amputation in diabetic foot patients. *Turkish journal of medical sciences*, 47(4), 1109-1116.

A4. Ozan, F., Dogar, F., **Gurbuz, K.**, Ekinci, Y., Koyuncu, S., & Sekban, H. (2017). Chronic Achilles Tendon Rupture Reconstruction Using the Lindholm Method and the Vulpius Method. *Journal of clinical medicine research*, 9(7), 573.

A5. **Gürbüz, K.**, Ozan, F., Kayali, C., & Altay, T. (2016). Total matrixectomy and VY advancement flap technique in the treatment of onychogryphosis. *Dermatologic Surgery*, 43(4), 583-586.

A6. Ozan, F., **Gürbüz, K.**, Uzun, E., Gök, S., Doğar, F., & Duygulu, F. (2017). The inflatable intramedullary nail for humeral shaft fractures. *Journal of orthopaedics*, 14(1), 137-141.

A7. Ozan, F., Uzun, E., **Gürbüz, K.**, Koyuncu, Ş., Altay, T., & Kayalı, C. (2016). Total hip arthroplasty in the developmental dysplasia of the hip using transverse subtrochanteric osteotomy *Journal of Orthopaedics*, 13(4), 259-263.

A8. Ozan, F., Oncel, E. S., Koyuncu, S., **Gurbuz, K.**, Dogar, F., Vatansever, F., & Duygulu, F. (2016). Effects of Hardinge versus Moore approach on postoperative outcomes in elderly patients with hip fracture. *Int J Clin Exp Med*, 9(2), 4425-4431.

A9. Batin, S., Ozan, F., **Gürbüz, K.**, Uzun, E., Kayalı, C., & Altay, T. (2016). Migration of a broken Kirschner wire after surgical treatment of acromioclavicular joint dislocation. *Case reports in surgery*, 2016.

A10. Ozan, F., Doğar, F., **Gürbüz, K.**, Ekinci, Y., Bilal, Ö., & Öncel, E. S. (2016). Dysplasia epiphysealis hemimelica (Trevor disease) in the ankle. *Therapeutics and clinical risk management*, 12, 545.

A11. Ozan, F., **Gürbüz K.** (2016). Surgical Treatment of Trigger Finger; Open Release. *Journal of Clinical and Analytical Medicine*, 6(153), 489-491.

A12. Ozan F., **Gürbüz K.** (2016). Metallic foreign body in the foot. *Journal of Clinical and Analytical Medicine*, 6(157), 788-791.

A13. Gurbuz, K. (2014). Avulsion Fracture of the Tibial Tubercle Associated with Patellar Ligament Avulsion in a Sporting Adolescent. A Rare Case. *Journal of Clinical and Analytical Medicine*, 7(114), 548-550.

A14. Uçar, M., Vatansever, F., Tanık, N., Çebiçi, M. A., Sütbeyaz, S. T., Sarp, Ü., & Gürbüz, K. (2015). Karpal tünel sendromu olan hastalarda ortalama trombosit hacmi ve diğer hemogram sonuçlarının karşılaştırılması. *Journal of Clinical and Experimental Investigations*, 6(2).

A15. Ozan, F., ., Gürbüz K. (2016). Type III Supracondylar Humerus Fractures in Children&58; Open Reduction and Pinning. *Journal of Clinical and Analytical Medicine*, 6(157), 783-787.

A16. Dogar, F. , Gürbüz K. (2016). Distal Metatarsal Osteotomy in Hallux Valgus Surgery&58; Chevron Osteotomy. *Journal of Clinical and Analytical Medicine*, 6(157), 752-755.

A17. Karaman, I., Halici, M., Kafadar, I. H., Guney, A., Oner, M., Gurbuz, K., Karaman, Z. F. (2014). Mid-term results of the elastic intramedullary nailing in paediatric long bone shaft fractures: a prospective study of 102 cases. *Journal of Pediatric Orthopaedics B*, 23(3), 212-220.

A18. Gurbuz, K. (2014). Covering the Dorsal Finger Defect with Reverse Cross Finger Flap. *Journal of Clinical and Analytical Medicine*, 7(112), 262-264.

B. Proceedings presented at international scientific meetings and published in proceedings:

B1. Gürbüz K., Gürbüz P., Yerer M.B, Halıcı M. The Effects of a Flavonoid Namely Icaritin on Fracture Healing and Antioxidant Systems: An Experimental Study *Acta Orthop Traumatol Turc* (Under Review)

D. Articles published in nationally-respected journals:

D1. Ekinci, Y., Gürbüz, K., Çıraklı, A., Ekinci, D., & Çıraklı, S. (2016). Dikiş iğnesi ile yaralanma sonrası gelişen septik artrit nedeni olarak pseudomonas aeruginosa. *Ege Tıp Dergisi*, 55(2), 95-97.

D2. Gürbüz K., Ozkan, K., Akman, B., Unay, K., Akçay, M. A., & Eceviz, E. (2010). Posttravmatik gluteal kompartman sendromu: Olgu sunumu. *TOTBİD Dergisi*, 9(1), 69-71.

D3. Ekinci, Y., Duygulu, F., Vatansever, F., & Gürbüz, K. (2014). A giant hydatid cyst localized in pelvis and thigh. *Eklem hastalıkları ve Cerrahisi*, 25(2), 121-124.

D4. Karaman, İ., Güney, A., Gürbüz, K., Bilal, Ö., & Güney, B. (2013). Calcific mediopatellar plica: a case report. *Eklem Hastalıkları ve Cerrahisi*, 24(2), 117-120.

E. Notified in national papers presented at national scientific meetings:

E1. Akyürek T., Dursun Z.B., İnanıcı B., **Gürbüz K.**, Çelik İ. Diyabetik Ayak Enfeksiyonlarında İzole Edilen Bakteriyel Mikrobiyolojik Profilleri Poster Bildiri -104 6. EKMUD Kongresi 11-15 Mayıs 2016 Antalya/Türkiye

E2. Gürbüz K., Ekinci Y., Dođar F., Çıraklı A., Mutlu M., Travma Sonrası Tanı Alan Osteopoiikilosis Poster Bildiri -4654 25. Ulusal Türk Ortopedi ve Travmatoloji Kongresi 27 Ekim - 1 Kasım 2015 Antalya/Türkiye

E3. Ekinci Y., **Gürbüz K.**, Dođar F., Çıraklı A Dikiş İğnesi İle Yaralanma Sonrası Pseudomonas Aeruginosa'ya Bağlı Dizde Gelişen Septik Artirit Poster Bildiri -4660 25. Ulusal Türk Ortopedi ve Travmatoloji Kongresi 27 Ekim - 1 Kasım 2015 Antalya/Türkiye

E4. Duygulu F., Hansu A., **Gürbüz K.**, Dođar F., Ekinci Y. Medial Menisküse Saplanmış Halde Bulunan İntra-artiküler Yabancı Cisimin atroskobik Çıkarılması Poster Bildiri -77 12. TUSYAD Kongresi 23-27 Eylül 2014 İzmir/Türkiye

E5. Ekinci Y., Çıraklı A., **Gürbüz K.**, Dođar F. Ayak Başparmağının Nadir Görülen Duplikasyonu Poster Bildiri-13317 27. Ulusal Türk Ortopedi ve Travmatoloji Kongresi 24 - 29 Ekim 2017 Antalya/Türkiye

E6. Kiraz A., Ekinci Y.,**Gürbüz K.** Artrogripozis Multipleks Konjenita Tıp 5D Poster-051 2. Ulusal Çocuk Ortopedisi Kongresi 16-18 Mart 2018 İzmir /Türkiye

E7. Gürbüz K. Ekinci Y. Doğumsal Radioulnar Sinostoz Tedavisinde Rotasyon Osteotomisinin Fiksasyonu: External Fiksator Mü, K-Teli & Alçılama Mı? Sözlü Bidiri-15 2. Ulusal Çocuk Ortopedisi Kongresi 16-18 Mart 2018 İzmir /Türkiye

E8. Gürbüz K., Ozan F. Onikogrifozis Tedavisinde Total Matrisektomi ve V-Y İlerletme Flep Tekniđi Sözlü Bildiri-80 26. Ulusal Türk Ortopedi ve Travmatoloji Kongresi 25-30 Ekim 2016 Antalya/Türkiye

E9. Gürbüz K., Ekinci Y. Hirudotherapy Practices and Priority in Emergency Situations in Orthopaedics and Traumatology-OP 6 11th European Congress for Integrative Medicine 21-23 September 2018 Ljublyana/Slovenia

E10. Gürbüz K., Ekinci Y., Batın S., Çıraklı A Sever Hastalığı Tedavisinde Ortotik Topuk Aparatıyla Kombine Fizik Tedavi ve ESWT Tedavisinin Karşılaştırılması; Prospektif ,Randomize Klinik Çalışma-16764 28. Ulusal Türk Ortopedi ve Travmatoloji Kongresi 30 Ekim-4 Kasım 2018 Antalya/Türkiye

E11. Gürbüz K., Ekinci Y., Batın S., Çıraklı A. Tendon Kılıfı Dev Hücreli Tümöründe Nüks Sözlü Bildiri-16886 28. Ulusal Türk Ortopedi ve Travmatoloji Kongresi 30 Ekim-4 Kasım 2018 Antalya/Türkiye

F. Art and design events:

F1.....

G. Other publications:

G1. Gürbüz K, Uzun E, Çıraklı A, Ozan F, Duygulu F. Stabbing Injury of the Forearm: A Case Report. J Ann Eu Med 2016; DOI: 10.4328/AE-MED.83.

G2. Gençer K, Ozan F, **Gürbüz K**, Uzun E, Özyalçın M, Öncel ES, Duygulu F. Result of the Fixation of Tibial Shaft Fractures by the In atable Intra-medullary Nail. J Clin Anal Med 2016; DOI: 10.4328/AEMED.79.

G3. Koyuncu Ş, Ozan F, **Gürbüz K**, Gluteal Compartment Syndrome Secondary to Traumatic Rupture of Gluteus Maximus. J Ann Eu Med 2016; DOI: 10.4328/AEMED.73

G4. Polat, G., Topuzođlu, A., **Gürbüz, K.**, Hotalak, Ö., Kavak, H., Emirikci, S., & Kayış, L. (2009). Burnout syndrome in high school teachers' in Bilecik, Bozüyük. Türk Silahlı Kuvvetleri, Koruyucu Hekimlik Bülteni, 8(3), 217-222.