

## Prof. MEHMET KIRNAP

### Personal Information

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### International Researcher IDs

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### Education Information

Expertise In Medicine, Karadeniz Technical University, Tıp Fakültesi, Fiziksel Tıp Ve Rehabilitasyon Anabilim Dalı, Turkey  
1987 - 1991

### Dissertations

Expertise In Medicine, Ankilozan Spondilitte Anti TNF Tedavi Öncesi ve Sonrası Leptin ve TNF Düzeyleri İle Hastalık Aktivite Göstergelerinin Karşılaştırılması, Erciyes Üniversitesi, Tıp Fakültesi, Fiziksel Tıp Ve Rehabilitasyon Anabilim Dalı, 2012

Expertise In Medicine, Temporomandibular Düzensizliklerde Hipotalamo-Pituiter-Adrenal Aks Fonksiyonlarının Değerlendirilmesi, Erciyes Üniversitesi, Tıp Fakültesi, Fiziksel Tıp Ve Rehabilitasyon Anabilim Dalı, 2011

### Research Areas

Health Sciences, Medicine, Internal Medicine Sciences, Physical Medicine and Rehabilitation

### Academic and Administrative Experience

Erciyes University, 2005 - 2011

Erciyes University, 2005 - 2011

Erciyes University, 1998 - 2002

Erciyes University, 1998 - 2002

Erciyes University, 1995 - 1996

Erciyes University, 1995 - 1996

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

- I. **Prevalence of Rheumatoid Arthritis and Spondyloarthritis in Turkey: A Nationwide Study**  
TUNCER T., GILGIL E., KAÇAR C., Kurtais Y., Kutlay S., BÜTÜN B., Yalcin P., Akarirmak U., Altan L., Ardic F., et al.  
ARCHIVES OF RHEUMATOLOGY, vol.33, no.2, pp.128-136, 2018 (SCI-Expanded)
- II. **Characteristics of Patients With Rheumatoid Arthritis in Turkey: Results From the Turkish League Against Rheumatism Rheumatoid Arthritis Registry**  
BAL A., Ataman S., BODUR H., REZVANI A., PAKER N., Tastekin N., KARATEPE A. G., BORMAN P., Yener M., Nas K., et

al.

ARCHIVES OF RHEUMATOLOGY, vol.30, no.1, pp.16-22, 2015 (SCI-Expanded)

- III. **Correlations among enthesitis, clinical, radiographic and quality of life parameters in patients with ankylosing spondylitis**  
REZVANI A., BODUR H., Ataman S., KAYA T., BUGDAYCI D. S., DEMIR S. E., Kocyigit H., Altan L., Ugurlu H., KIRNAP M., et al.  
MODERN RHEUMATOLOGY, vol.24, no.4, pp.651-656, 2014 (SCI-Expanded)
- IV. **Translation and validation of the Turkish version of the Ankylosing Spondylitis Quality of Life (ASQOL) questionnaire**  
Duruoz M. T., DOWARD L., Turan Y., Cerrahoglu L., Yurtkuran M., ÇALIŞ M., Tas N., OZGOCMEN S., YOLERI O., DURMAZ B., et al.  
RHEUMATOLOGY INTERNATIONAL, vol.33, no.11, pp.2717-2722, 2013 (SCI-Expanded)
- V. **Acrodysostosis associated with hypercalcemia**  
Kırnap M., Çalış M., Gokce C., Kurtoglu S., Öztürk M., Keleştimur F.  
HORMONES-INTERNATIONAL JOURNAL OF ENDOCRINOLOGY AND METABOLISM, vol.12, no.2, pp.309-311, 2013 (SCI-Expanded)
- VI. **The Effects of Chronic Periodontitis and Rheumatoid Arthritis on Serum and Gingival Crevicular Fluid Total Antioxidant/Oxidant Status and Oxidative Stress Index**  
Esen C., Alkan B. A., KIRNAP M., Akgul O., ISIKOGLU S., EREL O.  
JOURNAL OF PERIODONTOLOGY, vol.83, no.6, pp.773-779, 2012 (SCI-Expanded)
- VII. **Description of the registry of patients with ankylosing spondylitis in Turkey: TRASD-IP**  
BODUR H., Ataman S., BUGDAYCI D. S., REZVANI A., Nas K., Uzunca K., Emlakcioglu E., KARATEPE A. G., Durmuus B., Sezgin M., et al.  
RHEUMATOLOGY INTERNATIONAL, vol.32, no.1, pp.169-176, 2012 (SCI-Expanded)
- VIII. **Quality of life and related variables in patients with ankylosing spondylitis**  
BODUR H., Ataman S., REZVANI A., BUGDAYCI D. S., Cevik R., Birtane M., AKINCI A., ALTAY Z., GUNAYDIN R., Yener M., et al.  
QUALITY OF LIFE RESEARCH, vol.20, no.4, pp.543-549, 2011 (SCI-Expanded)
- IX. **Rehabilitation results of patients with acute transverse myelitis**  
ÇALIŞ M., KIRNAP M., Calis H., MISTIK S., DEMİR H.  
BRATISLAVA MEDICAL JOURNAL-BRATISLAVSKE LEKARSKE LISTY, vol.112, no.3, pp.154-156, 2011 (SCI-Expanded)
- X. **Is the Behcet's disease a risk factor for osteoporosis and is relation to cytokines?**  
KIRNAP M., ÇALIŞ M., KAYA N., MUHTAROĞLU S.  
BRATISLAVA MEDICAL JOURNAL-BRATISLAVSKE LEKARSKE LISTY, vol.111, no.6, pp.340-344, 2010 (SCI-Expanded)
- XI. **Hypothalamic-pituitary-adrenal axis in patients with ankylosing spondylitis**  
KIRNAP M., Atmaca H., TANRIVERDİ F., ÖZSOY O., ÜNLÜHİZARCI K., Kelestimur F.  
HORMONES-INTERNATIONAL JOURNAL OF ENDOCRINOLOGY AND METABOLISM, vol.7, no.3, pp.255-258, 2008 (SCI-Expanded)
- XII. **Evaluation of the hypothalamic-pituitary-adrenal axis in untreated patients with polymyalgia rheumatica and healthy controls**  
Demir H., TANRIVERDİ F., OZOGUL N., CALIS M., KIRNAP M., DURAK A. C., KELESTIMUR F.  
SCANDINAVIAN JOURNAL OF RHEUMATOLOGY, vol.35, no.3, pp.217-223, 2006 (SCI-Expanded)
- XIII. **Is intraarticular sodium hyaluronate injection an alternative treatment in patients with adhesive capsulitis?**  
CALIS M., DEMIR H., ULKER S., Kirnap M., DUYGULU F., CALIS H.  
RHEUMATOLOGY INTERNATIONAL, vol.26, no.6, pp.536-540, 2006 (SCI-Expanded)
- XIV. **The efficacy of EMG-biofeedback training on quadriceps muscle strength in patients after arthroscopic meniscectomy.**  
KIRNAP M., ÇALIŞ M., Turgut A. O., Halıcı M., Tuncel M.

N Z Med J., vol.118, no.1224, 2005 (SCI-Expanded)

- XV. **Adenosine deaminase enzyme levels, their relation with disease activity, and the effect of colchicine on adenosine deaminase levels in patients with Behcet's disease**  
CALIS M., ATES F., YAZICI C., KOSE K., Kirnap M., DEMİR M., BORLU M., EVEREKLIOĞLU C.  
RHEUMATOLOGY INTERNATIONAL, vol.25, no.6, pp.452-456, 2005 (SCI-Expanded)
- XVI. **Investigation of the hypothalamopituitary-adrenal axis by low-dose (1 µg) adrenocorticotrophic hormone test and metyrapone test in patients with chronic fatigue syndrome**  
IZGI H. B., Gökçe C., CALUS M., TURAN T., Kirnap M., SOFUOĞLU S., DURAK A., TUTUS A., KELESTİMUR F.  
ENDOCRINOLOGIST, vol.15, no.2, pp.89-92, 2005 (SCI-Expanded)
- XVII. **The comparison of hospital-based rehabilitation programme and home-based exercise programme in hemiplegic patients Hemiplejik hastalarda hastanede uygulanan rehabilitasyon programi ile ev egzersiz programinin karşılaştırılması**  
ÇALIŞ M., Turgut A. O., KIRNAP M., DEMİR H., Yaman N.  
Türkiye Fiziksel Tıp ve Rehabilitasyon Dergisi, vol.50, no.6, pp.14-17, 2004 (SCI-Expanded)
- XVIII. **Protein oxidation status in patients with ankylosing spondylitis**  
Yazici C., Kose K., Calis M., Kuzuguden S., Kirnap M.  
RHEUMATOLOGY, vol.43, no.10, pp.1235-1239, 2004 (SCI-Expanded)
- XIX. **Comparison of the effects of laser and ultrasound treatments on experimental wound healing in rats**  
DEMİR H., YARAY S., Kirnap M., YARAY K.  
JOURNAL OF REHABILITATION RESEARCH AND DEVELOPMENT, vol.41, no.5, pp.721-727, 2004 (SCI-Expanded)
- XX. **Increased advanced oxidation protein products in Behcet's disease: a new activity marker?**  
Yazici C., Kose K., Calis M., Demir M., Kirnap M., Ates F.  
BRITISH JOURNAL OF DERMATOLOGY, vol.151, no.1, pp.105-111, 2004 (SCI-Expanded)
- XXI. **'Hemiplejik hastalarda hastanede uygulanan rehabilitasyon programi ile ev egzersiz programinin karşılaştırılması**  
ÇALIŞ M., Turgut A. O., KIRNAP M., DEMİR H., Yaman N.  
TURKIYE FIZIKSEL TIP VE REHABILITASYON DERGISI-TURKISH JOURNAL OF PHYSICAL MEDICINE AND REHABILITATION, no.50, pp.14-18, 2004 (SCI-Expanded)
- XXII. **A comparative study of the effects of electrical stimulation and laser treatment on experimental wound healing in rats**  
Demir H., BALAY H., KIRNAP M.  
JOURNAL OF REHABILITATION RESEARCH AND DEVELOPMENT, vol.41, no.2, pp.147-153, 2004 (SCI-Expanded)
- XXIII. **Comparison of the effects of laser, ultrasound, and combined laser plus ultrasound treatments in experimental tendon healing**  
DEMİR H., MENKU P., Kirnap M., CALIS M., İkizceli I.  
LASERS IN SURGERY AND MEDICINE, vol.35, no.1, pp.84-89, 2004 (SCI-Expanded)
- XXIV. **Investigation of the hypothalamo-pituitary-adrenal axis (HPA) by 1 µg ACTH test and metyrapone test in patients with primary fibromyalgia syndrome**  
CALIS M., Gökçe C., ATES F., ULKER S., IZGI H. B., DEMİR H., Kirnap M., SOFUOĞLU S., DURAK A., TUTUS A., et al.  
JOURNAL OF ENDOCRINOLOGICAL INVESTIGATION, vol.27, no.1, pp.42-46, 2004 (SCI-Expanded)
- XXV. **The relation between tooth loss and bone mass in postmenopausal osteoporotic women in Turkey: a multicenter study**  
GUR A., NAS K., KAYHAN O., ATAY M., AKYUZ G., SINDAL D., AKSIT R., ONCEL S., DILSEN G., CEVİK R., et al.  
JOURNAL OF BONE AND MINERAL METABOLISM, vol.21, no.1, pp.43-47, 2003 (SCI-Expanded)
- XXVI. **Romatoid artritli hastalarda atlanto-aksiel subluksasyon sıklığı**  
KIRNAP M., ÇALIŞ M., Menkü A. P., Erdoğan N., ÖZTÜRK M.  
TURKIYE FIZIKSEL TIP VE REHABILITASYON DERGISI-TURKISH JOURNAL OF PHYSICAL MEDICINE AND REHABILITATION, no.48, pp.33-36, 2002 (SCI-Expanded)
- XXVII. **A comparison between low-dose (1 µg), standard-dose (250 µg) ACTH stimulation tests and insulin tolerance test in the evaluation of hypothalamo-pituitary-adrenal axis in primary fibromyalgia syndrome**

- Kirnap M., Çolak R., Eser C., Ozsoy O., Tutus A., Kelestimur F.  
CLINICAL ENDOCRINOLOGY, vol.55, no.4, pp.455-459, 2001 (SCI-Expanded)
- XXVIII. **Serum copper and zinc concentrations of patients with rheumatoid arthritis from Kayseri-Turkey**  
SOYLAK M., Kirnap M.  
FRESENIUS ENVIRONMENTAL BULLETIN, vol.10, no.4, pp.409-410, 2001 (SCI-Expanded)
- XXIX. **Traumatic spinal cord injuries in Turkey: a nation-wide epidemiological study**  
Karacan I., KOYUNCU H., PEKEL O., SUMBULOGLU G., Kirnap M., DURSUN H., KALKAN A., CENGİZ A., YALINKILIC A., UNALAN H., et al.  
SPINAL CORD, vol.38, no.11, pp.697-701, 2000 (SCI-Expanded)
- XXX. **Hypothalamo-pituitary-adrenal axis and growth hormone axis in patients with rheumatoid arthritis**  
Demir H., Kelestimur F., Tunc M., Kirnap M., Ozugul Y.  
SCANDINAVIAN JOURNAL OF RHEUMATOLOGY, vol.28, no.1, pp.41-46, 1999 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Investigation of Relation Between MDR1 Gene and Ankylosing Spondylitis: Case Control Research**  
**MDR1 Geni ile Ankilozan Spondilit Arasındaki İlişkinin İncelenmesi: Olgu Kontrol Araştırması**  
Kurt Çolak F., Bayram A., Korkmaz Bayram K., Kirnap M., Dündar M., Saatçi Ç.  
Turkiye Klinikleri Journal of Medical Sciences, vol.42, no.3, pp.213-220, 2022 (Scopus)
- II. **Neuropathic Pain and its Relationship With Fibromyalgia, Vitamin D Status and Medication Use in Patients With Ankylosing Spondylitis**  
Mizrak S., KIRNAP M., CÜCE İ.  
JOURNAL OF RHEUMATIC DISEASES, vol.28, no.3, pp.126-132, 2021 (ESCI)
- III. **Recurrent complex regional pain syndrome after minor hip surgery**  
KAPLAN H., GÜLER E., KIRNAP M.  
Journal of Orthopedics, Traumatology and Rehabilitation, vol.13, no.1, pp.61-63, 2021 (Peer-Reviewed Journal)
- IV. **PID Controller Design for Human Elbow Therapy**  
Eski İ., Kirnap A., Kirnap M.  
International Journal of Applied Mathematics, Electronics and Computers, vol.4, pp.282-285, 2016 (Peer-Reviewed Journal)
- V. **Romatoid artrit, astım, sistemik lupus eritamatozuslu hastalarda anti-cyclic citrullinated peptide (anti-CCP)'in tanısal değeri**  
KOÇ A. N., ÇALIŞ M., KIRNAP M.  
Astm Allerji İmmünoloji, no.8, pp.157-62, 2010 (Peer-Reviewed Journal)
- VI. **Diagnostik performances of anti-cyclic citrullinated peptide ( anti-CCP) assay in patients with rheumatoid arthritis, asthma, systemic lupus erythematosus.**  
KOÇ A. N., ÇALIŞ M., KIRNAP M.  
Astm allergy Immunol 8: 157-162,2010., vol.8, no.2, pp.157-162, 2010 (Peer-Reviewed Journal)
- VII. **Clinical evaluation and treatment of neurogenic bladder Nörojenik mesanenin klinik değerlendirilmesi ve tedavisi**  
ÇALIŞ M., Turgut A. O., KIRNAP M.  
Journal of Rheumatology and Medical Rehabilitation, vol.15, no.2, pp.129-136, 2004 (Scopus)
- VIII. **Serebral palsi: Risk faktörleri ve etyopatogenez**  
ÇALIŞ M., Ülker Ş., Turgut A. O., KIRNAP M.  
Romatoloji ve Tıbbi Rehabilitasyon Dergisi, no.14, pp.48-52, 2003 (Peer-Reviewed Journal)
- IX. **Cerebral palsy: Risk factors and etiopathogenesis Serebral palsi: Risk faktörleri ve etyopatogenez**  
ÇALIŞ M., Ülker Ş., Turgut A. O., KIRNAP M.  
Journal of Rheumatology and Medical Rehabilitation, vol.14, no.1, pp.48-52, 2003 (Scopus)
- X. **Genç erişkinlerde selim eklem hipermobilité sendromu ve ilgili klinik bulgular**  
ÇALIŞ M., KIRNAP M., DEMİR H., Ateş F., Turgut A. O.

Romatoloji ve Tıbbi Rehabilitasyon Dergisi, no.13, pp.86-89, 2002 (Peer-Reviewed Journal)

- XI. **Benign joint hypermobility syndrome and related clinical findings in young-adults Genç erişkinlerde selim eklem hipermobilité sendromu ve ilgili klinik bulgular**  
ÇALIŞ M., KIRNAP M., DEMİR H., Ateş F., Turgut A. O.  
Journal of Rheumatology and Medical Rehabilitation, vol.13, no.2, pp.86-89, 2002 (Scopus)
- XII. **mesane: anatomi, nörofizyoloji, etyopatogenez ve sınıflaması**  
ÇALIŞ M., Turgut A. O., Kirnap M.  
Sendrom, no.14, pp.116-21, 2002 (Peer-Reviewed Journal)
- XIII. **Nörojenik mesanenin değerlendirilmesi ve tedavisi**  
ÇALIŞ M., Turgut A. O., KIRNAP M.  
Türk Romatoloji ve Tıbbi rehabilitasyon Dergisi, pp.23-6, 2001 (Peer-Reviewed Journal)
- XIV. **Romatoid artritli hastaların otolaringolojik değerlendirilmesi**  
KÜLAHLI I., Kirnap M., Güney E., Soysal V., Özgül Y., Durak A.  
KBB ve Baş Boyun Cerrahisi Dergisi, no.2, pp.91-93, 1994 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Romatoloji Pratiğinde Biyobenzer İlaçlar Ne Kadar Hayatımızda?**  
KAPLAN H., CENGİZ G., CÜCE İ., KARA H., KIRNAP M., ÇALIŞ M.  
Uluslararası Katılımlı Türk Romatoloji Kongresi 2024, Antalya, Turkey, 28 February 2024, pp.96-97
- II. **A case of subacute thyroiditis associated with adalimumab**  
KUSKONMAZ S. M., KOC G., Özenmiş T., İnce M. M., KIRNAP M., Culha C.  
Endocrine Abstracts, Barselona, Spain, 19 - 22 May 2018, vol.56
- III. **Neural network based PID controller design for human elbow therapy system**  
ESKİ I., KIRNAP A., KIRNAP M.  
International Conference on Advance in Science:ICAS2017, İstanbul, Turkey, 13 - 15 September 2017, vol.1, pp.147-153
- IV. **ANGULAR DISPLACEMENT CONTROLLER DESIGN FOR HUMAN ELBOW PASSIVE THERAPEUTIC EXERCISES**  
ESKİ I., KIRNAP A., KIRNAP M.  
INTERNATIONAL CONFERENCE ON ADVANCES IN SCIENCE AND ARTS ISTANBUL 2017, İstanbul, Turkey, 29 - 31 March 2017, pp.132-138
- V. **TORQUE CONTROL OF HUMAN WRIST THERAPY**  
ESKİ I., KIRNAP A., KIRNAP M.  
INTERNATIONAL CONFERENCE ON ADVANCES IN SCIENCE AND ARTS ISTANBUL 2017, İstanbul, Turkey, 29 - 31 March 2017, pp.139-145
- VI. **PID Controller Design for Human Elbow Therapy**  
ESKİ I., KIRNAP A., KIRNAP M.  
International Conference on Advanced Technology & Sciences (ICAT'16), Konya, Turkey, 1 - 03 September 2016, pp.1011-1014
- VII. **CONTROLLER DESIGN FOR PATIENTS WHO HAS MALFUNCTION AT EXTREMITY**  
ESKİ I., KIRNAP A., KIRNAP M.  
CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING ISTANBUL 2016 - ICAME2016, İstanbul, Turkey, 11 - 13 May 2016, pp.313-318
- VIII. **Improvement in Work and Household Productivity for Patients with Rheumatoid Arthritis and Ankylosing Spondylitis Treated with Anti TNFs in Routine Clinical Practice in Turkey**  
ATAMAN Ş., KIRNAP M., SEFEROĞLU B., ALTAY Z., REZVANİ A., KURU Ö., ÇAPKIN E., BUĞDAYCI N. D., SEZER İ., ÇAY H. F., et al.  
2015 ACR/ARHP Annual Meeting, 6 - 11 November 2015
- IX. **A Case of Tophaceous Gout Involving the Fifth Toe with Destruction of the Proximal Interphalangeal**

**Joint without an Inflammatory Gout Attack**

CÜCE E. G., CANDAN V., KAPLAN H., KIRNAP M.

11. Türk Romatoloji Sempozyumu, Antalya, Turkey, 26 - 29 March 2015

- X. **Diagnostic values of clinical provocative tests in the thoracic outlet syndrome**  
ÇALIŞ M., Altuncuoğlu M., KIRNAP M., DEMİR H.  
5th World congress world institute of pain-WIP, United States Of America, 1 - 04 January 2009, pp.143
- XI. **Acrodysostosis: A case report**  
ÇALIŞ M., KIRNAP M., KELEŞTEMUR H. F.  
4th World congress of the international society of physical and rehabilitation medicine, South Korea, 1 - 04 June 2007, pp.123
- XII. **Effects of galantamine treatment on lymphocyte count and CD4 CD8 ratio in patients with chronic fatigue immune dysfunction syndrome**  
İZGİ H. B., TANRIVERDİ F., ASDEMİR A., DEMİREL-ÖZSOY S., TURAN M. T., PATIROĞLU T., ÇALIŞ M., KIRNAP M., BAŞTÜRK M., KELEŞTEMUR F., et al.  
The 2nd Mediterranean Congress of the World Federation of Societies of Biological Psychiatry and the 1st European Congress of the International Neuropsychiatric Association, ATİNA, Greece, 7 - 10 December 2006, pp.89
- XIII. **Effects of galantamine on serum vitamin B12 and folic acid levels in patients with chronic fatigue immune dysfunction syndrome**  
ASDEMİR A., DEMİREL-ÖZSOY S., İZGİ H. B., KULA M., DEVECİ M., YILDIZ B., TURAN M. T., EŞEL E., BAŞTÜRK M., KIRNAP M., et al.  
19th ECNP Congress, Paris, France, 16 - 20 September 2006, vol.16, pp.539-540
- XIV. **Kesin ve şüpheli romatoid artiritli, astımlı, sistemik lupus eritematosuzlu hastaların ve kan donörlerinin serumlarında Cyclic citrullinated peptide (CCP) karşı oluşan antikor düzeylerinin değerlendirilmesi.**  
KOÇ A. N., ÇALIŞ M., KIRNAP M.  
XVIII. Ulusal İmmunoloji Kongresi,, Bursa, Turkey, 7 - 10 September 2005, pp.236
- XV. **syndrome (a case report)**  
ÇALIŞ M., Deveci M., KIRNAP M.  
5th. Mediteranean Congress of PRM, Turkey, 1 - 04 September 2004, pp.98
- XVI. **Evaluation of hypothalamic-pituitary-adrenocortical (HPA) axis in patients with polymyalgia rheumatica.**  
Özoğul N., TANRIVERDİ F., DEMİR H., ÇALIŞ M., KIRNAP M., KELEŞTEMUR H. F.  
The 3rd Regional Congress of ISPNE for Central & Eastern Europe, Turkey, 1 - 04 July 2004, pp.75
- XVII. **Adenosine deaminase activity in ankylosing spondylitis**  
Calis M., Kirnap M., Yazici C., Ates F., Demir H., Calis H., Duygulu F.  
Annual European Congress of Rheumatology (EULAR 2004), Berlin, Germany, 9 - 12 June 2004, vol.63, pp.388
- XVIII. **Adenosine deaminase activity in patients with Behçet's disease**  
ÇALIŞ M., Ateş F., KIRNAP M., YAZICI C., Talay Çalış H., DEMİR H.  
Annual European Congress of Rheumatology-EULAR, Germany, 1 - 04 June 2004, pp.123
- XIX. **Comparison of the effects of laser, ultrasound and laser+ultrasound treatments in experimental tendon healing**  
ÇALIŞ M., DEMİR H., menkü P., KIRNAP M., İkizceli İ.  
2nd World Congress of the International Society of Physical and Rehabilitation Medicine - ISPRM, Czech Republic, 1 - 04 June 2003, pp.219
- XX. **Effect of EMG biofeedback quadriceps muscle strenght after arthroscopic menisectomy**  
Turgut A. O., KIRNAP M., ÇALIŞ M., DEMİR H.  
2nd World Congress of the International Society of Physical and Rehabilitation Medicine - ISPRM, Czech Republic, 1 - 04 June 2003, pp.188

## Supported Projects

- KIRNAP M., MIZRAK S., Project Supported by Higher Education Institutions, Ankilozan spondilitli hastalarda vitamin D düzeyi ile nöropatik ağrı ilişkisi, 2019 - 2020
- KIRNAP M., AKTAMIŞ R. M., Project Supported by Higher Education Institutions, Ailevi Akdeniz Ateşi Tanısı Alan Hastalarda HLA B Polimorfizminin Araştırılması ve Klinik Bulgularla İlişkisi, 2019 - 2020
- ESKİ İ., KIRNAP M., KIRNAP A., Project Supported by Higher Education Institutions, Uzun işlev bozukluğu olan hasta için fizyoterapist tarafından uygulanan egzersiz hareketlerinin modellenmesi ve bu model vasıtası ile öğrenebilen zeki kontrolcü tasarımı, 2014 - 2017
- SAATÇI Ç., KIRNAP M., ÇOLAK F., Project Supported by Higher Education Institutions, ANKİLOZAN SPONDİLİT HASTALARINDA TEDAVİDE KULLANILAN İLAÇLARA GÖRE MDR1 GEN POLİMORFİZM VE EKSPRESYONUNUN ARAŞTIRILMASI, 2013 - 2014
- KIRNAP M., BARAN (KAHRAMAN) E., Project Supported by Higher Education Institutions, Fibromiyalji Hastalarında Egzersiz ve Amitriptilin Tedavisinin Yürüme Analizine Olan Etkisi, 2013 - 2014
- KIRNAP M., MUHTAROĞLU S., ATAKUL N., Project Supported by Higher Education Institutions, Ankilozan Spondilitli hastalarda antiTNF tedavi öncesi ve sonrası pro-hepcidin ve sitokin düzeyleri ile has. aktivite, 2012 - 2014
- KIRNAP M., YÜKSEL T., MUHTAROĞLU S., Project Supported by Higher Education Institutions, Ankilozan Spondilitte Anti TNF Tedavi Öncesi ve Sonrası Leptin ve TNF Düzeyleri İle Hastalık Aktivite Göstergelerinin Karşılaştırılması, 2010 - 2012
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