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Personal Information

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International Researcher IDs

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Education Information

Expertise In Medicine, Gazi University, Tıp Fakültesi, Dahili Tıp Bilimleri Bölümü, Turkey 2004 - 2009

Undergraduate, Gazi University, Tıp Fakültesi, Tıp Pr., Turkey 1995 - 2002

Dissertations

Expertise In Medicine, Sitokrom P450 2J2 enzimini kodlayan gene ilişkin tek nükleotid polimorfizmlerinin nokturnal hipertansiyonla ilişkisinin belirlenmesi, Gazi University, Tıp Fakültesi, 2009

Academic Titles / Tasks

Assistant Professor, Lokman Hekim University, Tıp Fakültesi, Dahili Tıp Bilimleri Bölümü, 2021 - Continues

Research Assistant, Gazi University, Tıp Fakültesi, Dahili Tıp Bilimleri Bölümü, 2004 - 2009

Academic and Administrative Experience

Öz Değerlendirme ve Akreditasyon Kurulu, Lokman Hekim University, Tıp Fakültesi, Dahili Tıp Bilimleri Bölümü, 2022 - Continues

Mezuniyet Öncesi Eğitim Koordinatörlüğü, Lokman Hekim University, Tıp Fakültesi, Dahili Tıp Bilimleri Bölümü, 2022 - Continues

Klinik Beceri Eğitim Kurulu, Lokman Hekim University, Tıp Fakültesi, Dahili Tıp Bilimleri Bölümü, 2022 - Continues

Bologna Enstitü Birim Sorumlusu, Lokman Hekim University, Tıp Fakültesi, Dahili Tıp Bilimleri Bölümü, 2022 - Continues

Assistant Director of the Institute, Lokman Hekim University, Tıp Fakültesi, Dahili Tıp Bilimleri Bölümü, 2022 - Continues

Enstitü Yönetim Kurulu Üyesi, Lokman Hekim University, Tıp Fakültesi, Dahili Tıp Bilimleri Bölümü, 2022 - Continues

Fakülte Akademik Kurul Üyesi, Lokman Hekim University, Tıp Fakültesi, Dahili Tıp Bilimleri Bölümü, 2021 - Continues

Manager of Research and Application Center, Lokman Hekim University, Tıp Fakültesi, Dahili Tıp Bilimleri Bölümü, 2021 - Continues

Dönem Koordinatör Yardımcısı, Lokman Hekim University, Tıp Fakültesi, Dahili Tıp Bilimleri Bölümü, 2021 - Continues

Courses

Health Outcome Research, Postgraduate, 2022 - 2023
Endokrin Sistem Farmakolojisi, Postgraduate, 2022 - 2023
Farmakoloji (Anestezi), Associate Degree, 2022 - 2023
Farmakoloji (Fizyoterapi ve Rehabilitasyon), Undergraduate, 2022 - 2023
Pharmacology, Associate Degree, 2022 - 2023
Farmakogenetik, Postgraduate, 2022 - 2023
Pharmacology, Associate Degree, 2022 - 2023
Sağlık Sonuç Araştırmaları, Postgraduate, 2022 - 2023
Farmakoloji (Ağız ve Diş Sağlığı), Associate Degree, 2022 - 2023
Seminer, Postgraduate, 2022 - 2023
Yüksek Lisans Tez Çalışması, Postgraduate, 2022 - 2023
Klinik Farmakoloji, Undergraduate, 2022 - 2023
Yüksek Lisans Tez Çalışması, Postgraduate, 2022 - 2023
FARMAKOLOJİ IV, Undergraduate, 2021 - 2022
Farmakoloji (Hemşirelik), Undergraduate, 2022 - 2023
Farmakoloji (Diş Hekimliği), Undergraduate, 2021 - 2022
İLAÇ ARAŞTIRMALARINDA FARMAKOLOJİK YÖNTEMLER, Undergraduate, 2021 - 2022
Tıbbi farmakoloji, Undergraduate, 2021 - 2022
Farmakoloji (İlk ve Acil Yardım), Associate Degree, 2022 - 2023, 2019 - 2020
Farmakoloji II (Eczacılık), Undergraduate, 2021 - 2022
Pratik İlaç Bilgisi-II, Associate Degree, 2021 - 2022
Sağlık Ekonomisi, Postgraduate, 2021 - 2022
Pratik İlaç Bilgisi-I, Associate Degree, 2021 - 2022
Tıbbi Farmakoloji (Tıp Fakültesi), Undergraduate, 2019 - 2020

Advising Theses

Vural E. H., TÜRKİYE SAĞLIK HARCAMALARI BELİRLEYİCİLERİNİN REFERANS FİYAT ÖNCESİ VE SONRASI DEĞERLENDİRMESİ, Postgraduate, M.ELİF(Student), 2023
Vural E. H., Türkiye'de bulunan ilaç ar – ge merkezlerinde yapılan ilaç ar – ge faaliyetlerinin klinik araştırma boyutuyla değerlendirilmesi, Postgraduate, B.KARAYEL(Student), 2023

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Interaction of endocannabinoid system and cyclooxygenase metabolites with fatty acid amide hydrolase and cyclooxygenase enzyme activities on contractile responses in rat vas deferens tissue**
Vural E. H., Öztürk Fincan G. S., Okçay Y., Aşkın C. İ., Gudul Bacanlı M., Vural I. M.
Naunyn-Schmiedeberg's Archives of Pharmacology, vol.397, no.6, pp.4123-4137, 2024 (SCI-Expanded)
- II. **Are Turkish pharmaceutical pricing strategies an access barrier to oncology medicines for Türkiye?**
VURAL E. H., Kaskati T., Vural İ. M., ÖZALP M. A., GÜMÜŞEL B.
Frontiers in Pharmacology, vol.15, 2024 (SCI-Expanded)
- III. **Profile of psychotropic agents used in autism spectrum disorder according to comorbidities in Turkey: A 4-year evaluation**
Karabacak Y., BARUN S., Vural İ. M., VURAL E. H., İŞERİ E., Kahve A. C., Yılmaz E. Ş., Isli F., Turkes S., EZBER E., et al.
International clinical psychopharmacology, vol.38, no.4, pp.216-222, 2023 (SCI-Expanded)
- IV. **ADHD Medication Trends in Turkey: 2009-2013**
Öner Ö., Yılmaz E. Ş., Karadağ H., Vural M., Vural E. H., Akbulut A., Gürsöz H., Türkçapar H., Kerman S.
Journal of Attention Disorders, vol.21, no.14, pp.1192-1197, 2017 (SCI-Expanded)
- V. **Introduction and utilization of high priced HCV medicines across Europe; implications for the future**

de Bruijn W., Ibáñez C., Frisk P., Bak Pedersen H., Alkan A., Vella Bonanno P., Brkicic L. S., Bucsecs A., Dedet G., Eriksen J., et al.

Frontiers in Pharmacology, vol.7, no.JUL, 2016 (SCI-Expanded)

- VI. **The Effects of Reforms, Price Cuts And Global Budget Implementation on Original/Generic Medicine Sales Which Have Annual Average Highest Amount Of Sales Between 2008-2013 In Turkey.**
Vural I. M., Vural E. H., Yigit O., Dogan E., Babacan S., Tolun C., Uman N., Akbulat A., Malhan S., Kahveci R., et al.
Value in health : the journal of the International Society for Pharmacoeconomics and Outcomes Research, vol.17, no.7, 2014 (SCI-Expanded)
- VII. **Effects of Reference Price System on Medicines Which Have Annual Average Highest Amount Of Sales Of Between Years 2008-2013.**
Uman N., Tolun C., Babacan S., Dogan E., Vural I. M., Vural E. H., Dasdag M. M., Safak Y. E., Malhan S., Kahveci R., et al.
Value in health : the journal of the International Society for Pharmacoeconomics and Outcomes Research, vol.17, no.7, 2014 (SCI-Expanded)
- VIII. **The Effects of Reforms, Price Cuts and Global Budget Implementation on Biotechnological Medicine Sales Which Have Annual Average Highest Amount Of Sales Between 2008-2013 In Turkey.**
Vural E. H., Vural I. M., Yigit O., Uman N., Tolun C., Babacan S., Dogan E., Akbulat A., Kahveci R., Malhan S., et al.
Value in health : the journal of the International Society for Pharmacoeconomics and Outcomes Research, vol.17, no.7, 2014 (SCI-Expanded)
- IX. **Characteristics of The Medicines Which Have Annual Average Highest Amount Of Sales Of Between Years 2008-2013.**
Akbulat A., Dogan E., Babacan S., Uman N., Tolun C., Vural I. M., Vural E. H., Safak Y. E., Dasdag M. M., Kahveci R., et al.
Value in health : the journal of the International Society for Pharmacoeconomics and Outcomes Research, vol.17, no.7, 2014 (SCI-Expanded)
- X. **Are new models needed to optimize the utilization of new medicines to sustain healthcare systems?**
Godman B., Malmström R. E., Diogene E., Gray A., Jayathissa S., Timoney A., Acurcio F., Alkan A., Brzezinska A., Bucsecs A., et al.
Expert Review of Clinical Pharmacology, vol.8, no.1, pp.77-94, 2014 (SCI-Expanded)
- XI. **Influence of genetic polymorphisms, smoking, gender and age on CYP1A2 activity in a Turkish population**
Gunes A., Ozbey G., Vural E. H., ULUOĞLU C., Scordo M. G., Zengil H., Dahl M.
Pharmacogenomics, vol.10, no.5, pp.769-778, 2009 (SCI-Expanded)
- XII. **Temporal variation in drug interaction between lithium and morphine-induced analgesia**
Hilal Karakucuk E. H., Yamanoglu T., Demirel O., Bora N., Zengil H.
Chronobiology International, vol.23, no.3, pp.675-682, 2006 (SCI-Expanded)

Articles Published in Other Journals

- I. **TURKISH EXAMPLE OF PRIORITIZATION AND RESTRICTION DECISIONS IN MEDICINE ACCESS: EVALUATION BASED ON TWO INNOVATIVE DRUGS**
VURAL E. H., KILIÇ E. K., ATİKELER E. K., GÜMÜŞEL B.
Ankara Üniversitesi Eczacılık Fakültesi Dergisi, vol.48, no.3, pp.1135-1141, 2024 (Scopus)
- II. **Cytochrome P450 2J2*7 Single-nucleotide Polymorphism and Nocturnal Hypertension in an Elderly Turkish Population**
VURAL E. H., GÜNEŞ GRANBERG A., ÇENGEL A., Dahl M., ZENGİL H.
GAZI MEDICAL JOURNAL, vol.35, no.3, pp.325-331, 2024 (ESCI)
- III. **Early Results of Transformation of Pharmaceutical Industry in Turkey: Scope of Localization**
VURAL E. H., ŞAFAK YILMAZ E., VURAL İ. M., AYDIN S., BEKTEMÜR G.
GAZI MEDICAL JOURNAL, vol.33, no.4, pp.325-328, 2022 (Scopus)
- IV. **Evaluation of top-selling biotechnological medicine from 2003 to 2016 in Turkey Türkiye’de 2003-2016 Yılları Arasında En Çok Satılan Biyoteknolojik İlaçların Değerlendirilmesi**

Vural E. H., Yılmaz E. Ş., Bektemür G., Vural İ. M., Bayar B., Gürsöz H.
Haseki Tıp Bulteni, vol.57, no.2, pp.108-113, 2019 (ESCI)

- V. **Biotechnological medicines licensing process in Turkey Türkiye'de biyoteknolojik ilaçlara ilişkin ruhsatlandırma Süreci**
Vural E. H., ÖZET A.
Gazi Medical Journal, vol.30, no.1, pp.102-106, 2019 (ESCI)
- VI. **Cost Evaluation of Inhaler Therapies Used in Respiratory Diseases: The 1998 to 2015 Period in Turkey**
Bayar B., Kutkan N. U., Şafak Yılmaz E., Tolun Ç., Doğan E., Atikeler E. K., Vural E. H., Babacan S., Karabekmez N., Beyan A., et al.
Value in Health Regional Issues, vol.13, pp.31-38, 2017 (Scopus)
- VII. **Cost Evaluation of Inhaler Therapies Used in Respiratory Diseases: 1998--2015 Period in Turkey**
Bayar B., Kutkan N. U., Şafak Y. E., Tolun Ç., Doğan E., Atikeler E. K., VURAL E. H., Babacan S., Karabekmez N., Beyan A., et al.
Value in Health Regional Issues, vol.13, pp.31-38, 2017 (Scopus)
- VIII. **Compassionate medicine-use programmes in Turkey: a report on current status.**
VURAL E. H., KOÇKAYA G., TANYERİ P., BABACAN S., VURAL İ. M., AKBULAT A., ARTIRAN G., AKAR H.
Journal of Pharmaceutical Health Services Research, vol.3, no.3, pp.129-134, 2012 (ESCI)
- IX. **Yaşlı hipertansiflerde 24 saatlik kan basıncı kayıtlarının değerlendirilmesi**
VURAL E. H., ÇENGEL A., YAMANOĞLU T. M., ZENGİL H.
GAZI MEDICAL JOURNAL, vol.20, no.3, pp.97-101, 2009 (Scopus)

Books & Book Chapters

- I. **Paraben's role in human health and its sensitive assays from personal care products by electrochemical techniques**
KARADAŞ BAKIRHAN N., VURAL İ. M., YÜCEL Ç., VURAL E. H.
in: Recent Trends and Perspectives on Electrochemical Sensors for Environmental Monitoring, , Editor, Elsevier, pp.447-472, 2024
- II. **Farmakolojinin Temel Konuları- Farmakolojiye Giriş**
KAYAALP O., VURAL E. H.
in: Kayaalp Akılcı Tedavi Yönünden Tıbbi Farmakoloji, GÜMÜŞEL BÜLENT, BABAOĞLU MELİH ÖNDER, MELLİ MEHMET, Editor, Pelikan Yayınevi, Ankara, pp.1, 2024
- III. **Reliability of Frequently Used Ear, Nose, and Throat Drugs During Pregnancy and the Postpartum Period**
VURAL E. H., VURAL İ. M.
in: ENT Diseases: Diagnosis and Treatment during Pregnancy and Lactation, Cemal Cingi, Halil Erdem Özel, Nuray Bayar Muluk, Editor, Springer Cham, pp.375-410, 2022

Refereed Congress / Symposium Publications in Proceedings

- I. **Türkiye'de Biyobenzer Pazarı**
Vural E. H.
2 nd INTERNATIONAL AND 27th NATIONAL PHARMACOLOGY CONGRESS, Antalya, Turkey, 23 - 26 November 2023
- II. **EVALUATION OF ACCESS TO MONOCLONAL ANTIBODY DRUGS IN TURKIYE BETWEEN 2017-2022**
Vural E. H.
2 nd INTERNATIONAL AND 27th NATIONAL PHARMACOLOGY CONGRESS, Antalya, Turkey, 23 - 26 November 2023, pp.273-274

- III. **EVALUATION OF ACCESS TO ONCOLOGY MEDICINES IN TURKIYE BASED ON BOX SALES DATA BETWEEN 2010-2017**
Vural E. H., Kaskatı O. T., Vural İ. M., Özalp M. A., Gümüşel B.
2 nd INTERNATIONAL AND 27th NATIONAL PHARMACOLOGY CONGRESS, Antalya, Turkey, 23 November 2023, pp.261-262
- IV. **SIÇAN MESANE DÜZ KASLARINDA HİDROJEN SÜLFÜR YANITLARINA PROSTAGLANDİNERJİK VE NİTRERJİK YOLAKLARININ İNHİBE EDİLMESİNİN ETKİSİNİN DEĞERLENDİRİLMESİ**
Vural E. H., Akyel T., Dülgeroğlu M., Öztürk Fincan G. S.
2 nd INTERNATIONAL AND 27th NATIONAL PHARMACOLOGY CONGRESS, Antalya, Turkey, 23 November 2023, pp.395
- V. **EVALUATION OF THE INTERACTION OF ENDOCANNABINOID SYSTEM AND CYCLOOXYGENASE METABOLITES WITH FATTY ACID AMIDE HYDROLASE AND CYCLOOXYGENASE ENZYME ACTIVITIES ON CONTRACTILE RESPONSES IN RAT VAS DEFERENS TISSUE**
Vural E. H., Öztürk Fincan G. S., Okçay Y., Aşkın C. İ., Gündül Bacanlı M., Vural İ. M.
2 nd INTERNATIONAL AND 27th NATIONAL PHARMACOLOGY CONGRESS, Antalya, Turkey, 23 November 2023, pp.197
- VI. **Evaluation Of Reimbursement Periods In The Turkish Biosimilar Product Market (1995-2022)**
Ünlüler Değer S., VURAL E. H.
HTAi 2023 Meeting in Adelaide, Australia, 24 June 2023, vol.39, pp.92
- VII. **AN OVERVIEW OF DOMESTIC CANCER DRUGS IN TURKEY: 2008-2012**
VURAL E. H., ŞAFAK YILMAZ E., VURAL İ. M., DOĞAN E., AKBULAT A., GÜRSÖZ H., KERMAN S.
VALUE IN HEALTH, 2 - 06 November 2013, vol.16, pp.417
- VIII. **Türkiye'deki imal onkoloji ilaçlarının piyasaya girisinin ithal onkoloji ilaç satışlar üzerine etkisi**
VURAL E. H., ŞAFAK YILMAZ E., VURAL İ. M., AKBULAT A., GÜRSÖZ H., KERMAN S.
1. Sağlık Ekonomisi Kongresi, Turkey, 22 November - 24 December 2012
- IX. **Orphan Medicine Expenditures in Turkey**
KILIÇ P., KOÇKAYA G., TANYERİ P., VURAL E. H., Durmuş N., VURAL İ. M., Akbulat A., Artrın G., KERMAN S.
6th Eastern Conference for Rare Diseases and Orphan Drugs, 24 November 2011
- X. **Effect of melatonin on vascular sensitivity to phenylephrine and 5-hydroxytryptamin**
VURAL E. H., ZENGİL H.
The 3rd International Congress of Chronobiology and Chronomedicine, 17 - 22 May 2009
- XI. **Effect of melatonin on vascular sensitivity to sodium nitroprusside.**
VURAL E. H., ZENGİL H.
The 3rd International Congress of Chronobiology and Chronomedicine, 17 - 22 May 2009
- XII. **The influence of CYP2C8 and CYP2C9 polymorphisms on nocturnal blood pressure regulation**
VURAL E. H., GUNES A., DAHL M., ZENGİL H.
FEBS Advanced Course: cytochrome P450 systems: from structure to application., 23 - 28 November 2008
- XIII. **Association of abnormal nocturnal systolic blood pressure dipping with cytochrome P450 2C8 and 2C9 polymorphisms in elderly subjects**
KARAKÜÇÜK E. H., ÇENGEL A., SCORDO M., ZENGİL H., DAHL M.
The 2nd International Congress of Applied Chronobiology and Chronomedicine, 23 - 28 March 2007
- XIV. **CYP2C8 and CYP2C9 polymorphisms influence diurnal blood pressure parameters in elderly subjects**
GUNES A., KARAKUCUK E. H., ÇENGEL A., SCORDO M., ZENGİL H., DAHL M.
The 2nd International Congress of Applied Chronobiology and Chronomedicine, 23 - 28 March 2007
- XV. **İlaç-ilaç etkileşmelerinin değerlendirilmesinde kronofarmakolojik yaklaşım**
KARAKÜÇÜK E. H., BORA N., SESYILMAZ O., YAMANOĞLU T. M., ZENGİL H.
18. Ulusal Farmakoloji Kongresi, Turkey, 28 September - 01 October 2005
- XVI. **Temporal variation in the interaction between caffeine and morphine induced analgesia**
YAMANOĞLU T. M., SESYILMAZ O., BORA N., KARAKÜÇÜK E. H., ZENGİL H.
The 1st International Congress of Applied Chronobiology and Chronomedicine, 1 - 05 June 2005
- XVII. **Temporal variation in the interaction between agmatine and morphine induced analgesi**

SESYILMAZ Ö., BORA N., KARAKÜÇÜK E. H., YAMANOĞLU T. M., ZENGİL H.

The 1st International Congress of Applied Chronobiology and Chronomedicine, 1 - 05 June 2005

XVIII. **Administration time –dependent modulatory effect of sodium valproate on morphine induced analgesia**

BORA N., KARAKÜÇÜK E. H., YAMANOĞLU T. M., SESYILMAZ O., ZENGİL H.

The 1st International Congress of Applied Chronobiology and Chronomedicine, 1 - 05 June 2005

Scientific Refereeing

Istanbul Journal of Pharmacy, National Scientific Refreed Journal, November 2022

lokman Hekim Health Sciences, National Scientific Refreed Journal, June 2022

Metrics

Publication: 42

Citation (WoS): 201

Citation (Scopus): 207

H-Index (WoS): 5

H-Index (Scopus): 5

Congress and Symposium Activities

VI. Sağlık Ekonomisi Kongresi, Invited Speaker, Ankara, Turkey, 2022

FARMAKOEKONOMİK BAKIŞ AÇISIYLA COVID-19 PANDEMİSİ (WEBİNAR), Panelists, Ankara, Turkey, 2022

26. ULUSAL ve 1. ULUSLARARASI FARMAKOLOJİ KONGRESİ, Invited Speaker, Ankara, Turkey, 2021