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Education Information

Expertise In Medicine, Firat University, School Of Medicine, Turkey 1990 - 1993

Undergraduate, Uludağ Üniversitesi, Tıp Fakültesi, Turkey 1980 - 1986

Research Areas

Medicine

Academic Titles / Tasks

Professor, Yıldırım Beyazıt Üniversitesi, Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, 2011 - Continues

Professor, Yıldırım Beyazıt Üniversitesi, Tıp Fakültesi, Temel Tıp Bilimleri Bölümü, 2004 - Continues

Professor, Harran University, School Of Medicine, Department Of Basic Medical Sciences, 2004 - 2008

Associate Professor, Harran University, School Of Medicine, Department Of Basic Medical Sciences, 1998 - 2004

Academic and Administrative Experience

Harran Üniversitesi, Sağlık Bilimleri Enstitüsü, 1993 - 1997

Advising Theses

EREL Ö., The Investigation of Relationship between Dysfunctional Hdl with Carotid Stenosis Ratio and Atherosclerotic Plaque Morphology in the Patients Diagnosed with Extracranial Carotid Stenosis, Expertise In Medicine, A.ŞENAT(Student), 2019

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **The effects of dexmedetomidine on thiol/disulphide homeostasis in coronary artery bypass surgery: a randomized controlled trial**
Ozguner Y., Altinsoy S., Kültüroğlu G., Unal D., Ergil J., NEŞELİOĞLU S., EREL Ö.
BMC Anesthesiology, vol.24, no.1, 2024 (SCI-Expanded)
- II. **The association of umbilical cord blood oxidative stress with maternal iron deficiency anemia: A tertiary center experience**
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International Journal of Gynecology and Obstetrics, vol.167, no.3, pp.1201-1206, 2024 (SCI-Expanded)
- III. **Thiol-Disulfide Homeostasis in Noise-Induced Hearing Loss in Rats**
Aydın E., MUNGAN DURANKAYA S., YILMAZ O., KIRKIM G., AKTAŞ S., NEŞELİOĞLU S., EREL Ö., OLGUN Y., Dalgıç A.
Journal of International Advanced Otolaryngology, vol.20, no.6, pp.466-471, 2024 (SCI-Expanded)
- IV. **JAFERI L., KIZILKAN M. P., ARI D. A., EREL Ö., AKGÜL S.**
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- V. **Evaluation of Glutathione (GSH) System in Porcine Saliva: Validation and Application of Colorimetric Method**
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- VI. **The role of thiol-disulfide homeostasis and ischemia-modified albumin in osteosarcoma**
İleri İ., Eren F., NEŞELİOĞLU S., Hafızoğlu M., KARADUMAN D., ATBAŞ C., Şahiner Z., Dikmeer A., BALCI C., DOĞU B. B., et al.
Irish Journal of Medical Science, vol.193, no.4, pp.2109-2114, 2024 (SCI-Expanded)
- VII. **Investigation of Thiol/Disulfide Homeostasis and Clinical Parameters in Rosacea Patients According to Skin Subtypes.**
Yesilirmak N., Saritas O., Kurt B., Neselioglu S., Aktas A., Erel Ö.
Journal of clinical medicine, vol.13, no.14, 2024 (SCI-Expanded)
- VIII. **Oxidative Stress in Patients With Melasma: An Evaluation of the Correlation of the Thiol/Disulfide Homeostasis Parameters and Modified MASI Score**
Erduran F., Hayran Y., Emre S., Eren F., Yidal A. I., EREL Ö.
Cutis, vol.113, no.6, pp.264-268, 2024 (SCI-Expanded)
- IX. **The effect of slow-release vaginal dinoprostone on maternal and fetal oxidative stress in term pregnancies complicated by oligohydramnios: Prospective cohort study**
Yilmaz G., NEŞELİOĞLU S., Aydogdu F. E., EREL Ö., Uzunlar O., Moraloglu Tekin O.
Journal of the Chinese Medical Association, vol.87, no.4, pp.410-413, 2024 (SCI-Expanded)
- X. **Physical frailty is related to oxidative stress through thiol/disulfide homeostasis parameters**
Hafızoğlu M., Eren F., NEŞELİOĞLU S., Şahiner Z., KARADUMAN D., ATBAŞ C., Dikmeer A., İleri İ., BALCI C., DOĞU B. B., et al.
European Geriatric Medicine, vol.15, no.2, pp.423-434, 2024 (SCI-Expanded)
- XI. **Evaluation of maternal serum thiol and ischemia-modified albumin levels in cases of placenta previa: A case-control study in a tertiary center**
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- XII. **A comprehensive assessment of redox balance in small for gestational age newborns and their mothers**
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Lab Medicine, vol.55, no.2, pp.209-214, 2024 (SCI-Expanded)
- XIII. **Heavy Metal and Thiol/Disulfide in Children with Attention-Deficit and Hyperactivity Disorder**
Aydın D. B., Nasiroğlu S., Aydın E., Elmas B., Özdemir Ö., EREL Ö.
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- XIV. **Ideal timing of labor in terms of oxidative stress - which term period is best?**

- Yilmaz G., NEŞELİOĞLU S., Ceylan F. N., Elmas B., Aydogdu F. E., EREL Ö., Uzunlar O., SARIKAYA E., Tekin O. M. Turkish Journal of Biochemistry, vol.49, no.1, pp.77-81, 2024 (SCI-Expanded)
- XV. **Relationship between pattern reversal visual evoked potential P100 wave latency and dysfunctional HDL in patients with multiple sclerosis subjected to an optic neuritis attack: A case-control study**
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- XVI. **Thiol-disulphide Homeostasis in Patients with Schizophrenia: The Potential Biomarkers of Oxidative Stress in Acute Exacerbation of Schizophrenia**
KORKMAZ Ş. A., Kaymak S. U., NEŞELİOĞLU S., EREL Ö. Clinical Psychopharmacology and Neuroscience, vol.22, no.1, pp.139-150, 2024 (SCI-Expanded)
- XVII. **Prolidase activity in women with polycystic ovarian syndrome undergoing assisted conception**
Erdoğan K., Utlu Özen E., Kahyaoğlu İ., NEŞELİOĞLU S., EREL Ö., Akar S., Özdemir Ö., Ercan C. M., Engin Üstün Y. Journal of Obstetrics and Gynaecology, vol.44, no.1, 2024 (SCI-Expanded)
- XVIII. **Unveiling the link: Helicobacter pylori infection and impact on ischemia modified albumin, thiol, and disulfide levels**
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- XIX. **EVALUATION OF OXIDATIVE STRESS MARKERS IN GIRLS WITH PREMATURE THELARCHE AND PRECOCIOUS PUBERTY**
Gunes S. O., Akin O., Durmaz N., EREL Ö., Yavuz S. Acta Endocrinologica, vol.20, no.1, pp.5-11, 2024 (SCI-Expanded)
- XX. **Alterations in serum thiol-disulfide homeostasis and ischemia-modified albumin concentrations in clinical canine parvoviral enteritis**
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- XXI. **Enhanced SELEX Platforms for Aptamer Selection with Improved Characteristics: A Review**
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- XXII. **Effect of Adrenocorticotrophic Hormone Stimulation on Ischemia-modified Albumin Levels in vivo**
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- XXIII. **The Role of the Lipid Profile and Oxidative Stress in Fatigue, Sleep Disorders and Cognitive Impairment in Patients with Multiple Sclerosis**
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- XXIV. **Did diet compliance and remission reduce oxidative stress in celiac patients?**
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- XXV. **The Effect of Preoperative Carbohydrate-containing Fluid Consumption on Maternal Oxidative Stress Markers During Elective Cesarean Delivery**
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- XXVI. **The Effect of Acute Stroke Treatment on S100B, IMA, and Thiol-Disulfide Balance**
VARAN E., Oguz E. F., NEŞELİOĞLU S., EREL Ö., BEKTAŞ H. Neurology India, vol.72, no.6, pp.1231-1236, 2024 (SCI-Expanded)
- XXVII. **Comparative analysis of thiol-disulfide homeostasis dynamics between elective cesarean section and uncomplicated vaginal delivery: insights into perinatal oxidative balance**
Cendek B., Bayraktar B., Tonyali N., Cakir B., Alisik M., Koc S., EREL Ö. European Review for Medical and Pharmacological Sciences, vol.28, no.4, pp.1471-1479, 2024 (SCI-Expanded)

- XXVIII. **Maternal serum ischemia-modified albumin as an oxidative stress biomarker in preterm pre-labor rupture of membranes**
Cetin O, Karaman E, Tolunay H. E., Boza B., Cim N., Alişik M., EREL Ö., Yildizhan R., Kulusari A., Şahin H. G. *Ginekologia Polska*, vol.95, no.9, pp.705-710, 2024 (SCI-Expanded)
- XXIX. **Validation of assays for measurement of oxidant compounds in saliva of pigs: Thiobarbituric acid reactive substances (TBARS), carbonyl, and reactive oxygen species (ROS)**
González-Arostegui L., Cerón J., Gök G., NEŞELİOĞLU S., EREL Ö., Rubio C. *Research in Veterinary Science*, vol.165, 2023 (SCI-Expanded)
- XXX. **Thiol-disulphide homeostasis, ischemia-modified albumin, complete blood count-derived inflammatory markers and C-reactive protein from acute mania to early remission in bipolar disorder**
KORKMAZ Ş. A., Kızgın S., Oğuz E. F., NEŞELİOĞLU S., EREL Ö. *Journal of Affective Disorders*, vol.339, pp.426-434, 2023 (SCI-Expanded)
- XXXI. **14-3-3η Proteins as a Diagnostic Marker, Disease Activation Indicator, and Lymphoma Predictor in Patients with Primary Sjögren Syndrome**
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- XXXII. **Are Thiols Useful Biomarkers for Coronary Collateral Circulation in Patients with Stable Coronary Artery Disease?**
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- XXXIII. **Dynamic Thiol-Disulfide Homeostasis in Lung Transplant Recipients**
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- XXXIV. **High-density lipoprotein dysfunction in carotid artery stenosis: Myeloperoxidase/Paraoxonase 1 and Myeloperoxidase/Arylesterase**
Senat A., Ilker Yon M. İ., Yuce G., Deniz O., EREL Ö. *Vasa - European Journal of Vascular Medicine*, vol.52, no.5, pp.342-348, 2023 (SCI-Expanded)
- XXXV. **Erythrocytic Reduced/Oxidized Glutathione and Serum Thiol/Disulfide Homeostasis in Patients with Opioid Use Disorder**
Kabadayı Şahin E., Şenat A., Söğüt İ., Duymaz T., EREL Ö. *Psychiatry and Clinical Psychopharmacology*, vol.33, no.3, pp.170-176, 2023 (SCI-Expanded)
- XXXVI. **14-3-3 η ETA protein as a potential marker of joint damage in gout**
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- XXXVII. **Evaluation of atherosclerotic risk by oxidative contributors in alcohol use disorder**
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- XXXVIII. **Thiol-disulphide homeostasis, ischemia-modified albumin, trace elements and vitamins in vitiligo patients**
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- XXXIX. **Thiol/Disulfide Homeostasis and Ischemia-Modified Albumin Levels in 61 Patients with Hypercapnia: A Case-Control Study**
Gürü S., KADI G., YILDIRIM Ç., GÖKHAN Ş., ÖZHASENEKLER A., Gürü M., NEŞELİOĞLU S., EREL Ö. *Medical science monitor : international medical journal of experimental and clinical research*, vol.29, 2023 (SCI-Expanded)
- XL. **Dynamic Thiol-Disulfide Homeostasis as a Marker for Oxidative Stress in Lung Transplant Candidates**
Sahin M. F., Beyoglu M. A., Yazicioglu A., Turkkan S., Özay H. Y., Akbulut E. D., NEŞELİOĞLU S., EREL Ö., Yekeler E. *Experimental and Clinical Transplantation*, vol.21, no.6, pp.526-533, 2023 (SCI-Expanded)

- XLI. **Does the use of infusion pumps increase hemolysis during blood transfusion in patients with thalassemia?**
Turgutoğlu Yılmaz A., Gürlek Gökçebay D., Yılmaz N., NEŞELİOĞLU S., Çulha V., EREL Ö., Yaralı N., ÖZBEK N. Y.
Transfusion and Apheresis Science, vol.62, no.3, 2023 (SCI-Expanded)
- XLII. **Serum ischemia modified albumin level in the differential diagnosis of acute appendicitis and non-specific abdominal pain of children**
Kurku H., Ugur C., Madenci H., EREL Ö.
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- XLIII. **Effects of empagliflozin against indomethacin induced gastric mucosa**
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Minerva endocrinology, vol.48, no.2, pp.186-193, 2023 (SCI-Expanded)
- XLIV. **Changes in neurofilament light chain protein (NEFL) in children and adolescents with Schizophrenia and Bipolar Disorder: Early period neurodegeneration**
CEYLAN M. F., TURAL HESAPÇIOĞLU S., Kanoğlu Yüksekaya S., Erçin G., Yavas C. P., Neşelioğlu S., EREL Ö.
Journal of Psychiatric Research, vol.161, pp.342-347, 2023 (SCI-Expanded)
- XLV. **Evaluation of the effects of empagliflozin on acute lung injury in rat intestinal ischemia-reperfusion model**
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Journal of Endocrinological Investigation, vol.46, no.5, pp.1017-1026, 2023 (SCI-Expanded)
- XLVI. **Evaluation of Oxidative Stress by Dynamic Thiol/Disulfide Homeostasis and Ischemia-Modified Albumin Levels in Children with β -Thalassemia Major**
Güler Kazancı E., Korkmaz M. F., Eren F., EREL Ö.
Laboratory medicine, vol.54, no.2, pp.206-211, 2023 (SCI-Expanded)
- XLVII. **A New Perspective for Potential Organ Damage Due to Iron-Mediated Oxidation in Thalassemia Major Patients**
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- XLVIII. **Evaluation of Dysfunctional HDL by Myeloperoxidase/Paraoxonase Ratio in Unexplained Infertility Patients Undergoing IVF/ICSI**
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- XLIX. **The Relationship Between Vitamin-D Deficiency and Protein Oxidation Among Obese Children**
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- L. **Efekt vzdálených ischemických podnětů na thiol-disulfi doovou rovnováhu u TP kolena: randomizovaná kontrolovaná studie Effect of Remote Ischemic Preconditioning in Total Knee Arthroplasty on Thiol-Disulfi de Balance: a Randomized Controlled Study**
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- LI. **Effect of cardiopulmonary bypass on thiol/disulfide homeostasis in congenital heart surgery Doğumsal kalp cerrahisinde kardiyopulmoner baypasın tiyol/disülfid homeostazisi üzerine olan etkisi**
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- LII. **Oxidative Stress and Inflammatory Biomarkers in People with Methamphetamine Use Disorder**
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- LIII. **The evaluation of thiol-disulfide homeostasis in children with Triple-A syndrome**
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- LIV. **The Role of Ischemia-modified Albumin and Ischemia-Modified Albumin to Albumin Ratios in**

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- LIV. **Dynamic thiol-disulfide homeostasis as an oxidative stress marker in ankylosing spondylitis and undifferentiated spondyloarthritis**
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- LVI. **Native thiol decreases in patients with asymptomatic primary hyperparathyroidism, especially in the presence of surgery indication**
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- LVII. **Is Vision C interchangeable with the modified Westergren method for the erythrocyte sedimentation rate?**
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- LVIII. **Evaluation of the role of thiol / disulfide homeostasis in the etiology of idiopathic male infertility with a novel and automated assay**
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- LIX. **Proptosis is associated with thiol-disulfide in patients with Graves' ophthalmopathy**
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- LX. **Association of thiol/disulphide homeostasis with Bethesda classification of thyroid nodules and thyroid cancer**
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- LXI. **How do thiol disulfide balance and copper-ceruloplasmin levels change in women using copper intrauterine devices?**
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- LXII. **Dynamic thiol disulfide homeostasis in painters as indices of oxidative stress**
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- LXIII. **Dynamic Thiol-Disulfide Homeostasis in Children With β -Thalassemia Trait**
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- LXIV. **Clinicoradiological evaluation of oxidative stress activity in acute cerebral infarction in the first 24 h and the qualitative importance of dysfunctional HDL in stroke**
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- LXV. **The effect of acid use as a preservative on the results of biochemical tests measured in 24-h urine**
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- LXVI. **The evaluation of maternal systemic thiol/disulphide homeostasis for the short-term prediction of preterm birth in women with threatened preterm labour: a pilot study**
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- LXVII. **Investigation of Thiol/Disulfide Homeostasis and Ischemia-Modified Albumin Levels in Children with Wilson Disease**
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- LXVIII. **Evaluation of Thiol/Disulfide Homeostasis in Bronchiectasis**
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- LXIX. **Serum hepcidin / ferroportin levels in bipolar disorder and schizophrenia**
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- XLVIII. **Karbonmonoksit zehirlenmesi olan çocuklarda tiyol-disülfid dengesi**
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- XLIX. **ASSESSMENT OF THIOL/DISULPHIDE HOMEOSTASIS IN PATIENTS WITH AUTOIMMUNE GASTRITIS**
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LXX. Heavy metal levels and investigations of their effects on thiol/disulphide status in children with

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- XCI. **Astımlı Çocuklarda ThioI/disülfid Dengesi, Total Antioksidan Kapasite, Total Oksidan Seviyesi ve Oksidatif Stres İndeksi Değerleri**
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XCVII. Evaluation of dynamic thiol-disulfide homeostasis in healthy very low birth weighted preterms. ID:865

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CI. Juvenil idiyopatik artritli hastalarda tiyol-disülfid düzeylerinin değerlendirilmesi

ALTINEL AÇOĞLU E., EREL Ö., YAZILITAŞ F., BÜLBÜL M., OĞUZ M. M., YÜCEL H., KARACAN C. D., ŞENEL S.

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CII. Impaired Thiol / Disulphide Homeostasis in Graves' Disease

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- CXIV. Comparison of thiol balance in barbus luteus living in Balıklıgöl and Euphrates River**
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