



ISSN - 0975-2366

International Journal of Pharmaceutical Research

www.ijpronline.com



REVIEW

- The impact of human resource and quality management in health care: A Review** *
VEVITA PRIYA, DR. C. VENKATESWARAN
- Phytochemical and Pharmacological Potential of Plant *Pimenta dioica* Linn.** *
KONALA M, VIPUL V. DHASADE
- COVID: an Overview of Their structure, Replication, diagnosis, drug targets, new reported drugs and vaccine strategy** *
*NAGARAJU BANDARU, UMA SANKAR GORLA, YKRANTHI, GSN
 KOTESWERRAO, A ANKARAO*
- An Overview on Floating Microsphere** *
RAGHAV MISHRA, ACHYUT MISHRA
- A systematic review of promoting and support successful breastfeeding** *
AYUL PRAMBANDARI, MUFDILAH
- Basaloid Squamous Cell Carcinoma of the Oropharynx - Brief Overview** *
SRIKUMAR CHAKRAVARTHI, BARANI KARIKALAN
- A Study on the impact of Climate Change on the Multigenerational Migration Journey of Monarch Butterflies** *
*K. YAMUNA, S.N. JYOTHI, GEVARGIS MURAMTHOOKIL THOMAS, SHILPA HARI
 PRAKASH, GOURI S NAIR*
- Biodiesel production from wastewater as a source using microorganisms: A review** *
G GIRISH,
- Nanocarrier of Solid Lipid a Colloidal Disperse System for Drug Delivery** *
HAYDER DRAIS, AHMED ABBAS HUSSEIN, MOWAFAQ MOHAMMED GHAREEB
- Pharmacological Review Of *Portulaca Grandiflora* Hook.** *
DEVI M, HARIKRISHNAN N, RAMYA M, NANDHINI M.
- HPLC and its uses in current era- A review** *
REETHEGA L, BRUNDHA M.P, GEETHA R.V
- Assessment of Tooth with Primary Periodontal Lesion Requiring Endodontic Therapy: A Retrospective Analysis** *
SHREYA SVITLAMA, RAGHU SANDHYA, JAIGANESH RAMAMURTHY

Effect of Maternal Occupation in Orofacial Clefts
ADITYA REDDY,P. ABDUL WAHAB P.U. JAGADISH V



Evaluating The Number Of Walls Present And its Significance On The Teeth Restored With Prefabricated Fiber Post In Single Rooted Teeth In Both Upper And Lower Arches -A Retrospective Study
KEERTHIKA R. SURENDAR SUGUMARAN



Nano Based Dental Preparation - An Update
N.E. KAVIYA, ANITHA ROY



Comparison of the Effectiveness of Using Bovine and Human Dry Amniotic Membrane based on Mucosal Integrity in Urethral Defect Reconstruction: Experimental Study on New Zealand Rabbits
FRANKLIN MALONDA, I.G. BADRIA HARIASTAWA, ETTY HARY KUSUMASTUTI, EDWIN DANARDONO



Outcomes of Patients with Chronic Lymphocytic Leukemia Treated with Chemotherapy in Middle Euphrates Region of Iraq: Data from Developing Country
AHMED MUJALI, ZAHRAA KADHIM HASAN, KARHAH KADHIM MOHSIN



Biological Characteristics and Causes of Degradation of Rats Mandibular Condylar Cartilage
AMEERA KHALEEL, DR. RAMIZU BIN SHAARI, DR. MOHAMAD ARIF AWANG NAWI, DR ALI SULTAN ALRIFAI



Comparative Diagnostic Value of Anti-Dengue IgG, Anti-Dengue IgM of Two Rapid Tests In Dengue Virus Infection
MAY TANZILIA, NELLY ZURONDAH, I GUSTI AGUNG AYU EKA PUTRI SUNARI, BILLY JORDAN WRAHATMALA, FARADILA KHOIRUN NISA, HAKIM, ALI ROHMAN, PUSPA WARDHANI, DOMINICUS HUSADA, SITI NADIA TARMIZI, ARYATI



Skeletal Deformities of Children with Cerebral Palsy (Clinicoepidemiological Study)
DR ALI HASSAN



Data Access Controls in Cloud: A Survey
YOGESH M.GAJMAL, R.UDRAYAKUMAR



Anti-Hypertensive treatment guidelines, result and their evaluation
SHAIK ALI, DR MAHAVEER SINGH, DR BIRENDRA SHRIVASTAVA, DR KONDA RAVI KUMAR, DR MADAN MOHAN GUPTA



Assessment of patients visited for management of oral cancer in a private dental institution - a retrospective study
DINESH PRABU M



Oral Health In Down Syndrome - A Literature Review
NUR HANNAH, MAHESH RAMAKRISHNAN



A systematic review of medicinal plants used in Nigeria for hypertension management
OKUKWE CHRISTA OBODE, ABIODUN HUMPHREY ADEBAYO, CONRAD ASOTIE OJONHIMMIN, OMOCLARA FAITH YAKUBU



How is the Application of Family Center Care in Children with Cancer: A Literature Review?
SUMARTI ENDAH PURNAMANINGSIH MARIA MARGARETHA, CHRISTANTIE EFFENDY, SRI MULATSIH, HARI KUSNANTO



Literature Review of Orofacial Muscle Contraction Detection Tool in Children
HARLIN ACHMAD, EVGENIY V. KIRICHENKO, EVAYANTI AKE



Differential Diagnosis of Lymphadenopathies <i>SEIDALIN N.K, BENBERIN V.V, SHANAZAROV N.A, TULEUBAEVA A.A, SATAEVA Z.S, TOKHPANOVA N.A, ISABEKOVA A.M</i>	✱
Comparison of sitting callisthenics vs respiratory muscle stretch gymnastics to desensitize dyspnea in moderate COPD patients <i>D. ANANDHI</i>	✱
Comparison between physical training and multisensory training on balance among diabetic peripheral neuropathy patients <i>POOJA KUMARI MAHASETH, J. SURESH</i>	✱
Review on Understanding Drug dosage Regimens and its Design- The First-step Towards Rational Prescribing <i>PRASAATH SASTHA.K.R, RAMALINGAM KOTHAI, KATHIRVEL R, BALASUBRAMANIAN ARUL</i>	✱
White Spot Lesions In Orthodontic - A Literature Review <i>HEMASHREE J, RAVINDRA KUMAR JAIN</i>	✱
Usefulness Of T-Scan In Orthognathic Surgery: Literature Review <i>R RAJASHRI, M P SANTHOSH KUMAR</i>	✱
Effect Of Farnesol On Oral Pathogens- A Systematic Review <i>SRUJANA HEIMMANUR, IFFAT NASIM</i>	✱
Comparison of the Effectiveness of Ciprofloxacin Drops with Levofloxacin Drops in Patients with Chronic Suppurative Otitis Media (CSOM) between 2016-2019 <i>GHOLAM-ALI DASHTI KHAVIDAKI, REZA GHARIBI</i>	✱
Excipient profile and future possibilities of fucoidan: a review <i>A.MARY SARAL, MS. F MATHEW</i>	✱
BreastCancerAnalysisusingMachineLearning Algorithm – A Comprehensive Study <i>VIBITH S, DR.JOBIN CHRIST M C</i>	✱
Effect of prostetic factors on periodontal health: A literature review <i>ARNI IRAWATY DJAIS, SRI OKTAWATI, HARUN ACHMAD, ERI HENDRA JUBHARI, ALFRIDA PASANGALLO, RACHMI BACHTIAR, DANIEL TETAN-EL, ADHAWANTY</i>	✱
Periodontal considerations for denture placement: A literature review <i>ARNI IRAWATY DJAIS, SRI OKTAWATI, HARUN ACHMAD, ERI HENDRA JUBHARI, SHINTA RAHMA M., FIRMAN SALAM, NUR MASYTA S., DANIEL TETAN-EL</i>	✱
Gingival Mask as A Non-Surgical Treatment in Gingival Recession: A Literature Review <i>SRI OKTAWATI, ARNI IRAWATY DJAIS, HARUN ACHMAD, ERI HENDRA JUBHARI, NUR MASYTA S., SHINTA RAHMA M., ALFRIDA PASANGALLO, ADHAWANTY</i>	✱
Bone Augmentation Procedure Before Placing the Dental Implant: A Literature Review <i>SRI OKTAWATI, ARNI IRAWATY DJAIS, HARUN ACHMAD, ERI HENDRA JUBHARI, RACHMI BACHTIAR, SHINTA RAHMA M., FIRMAN SALAM</i>	✱
A Review on Antiangiogenic Activity Medicinal Plants Available in Iraq <i>OMAR HUSSEIN AHMED, AMJED HASEEB KHAMEES, SHATHAL KHALAF NOMAN</i>	✱
Animals Mentioned In The Islam's Prophetic Traditions: A Review Of The Scientific Evidence <i>ISMAIL FAHMI ARRAUF NASUTION, ABDUL MUFID, KISNO, MUHAMMAR AMIN, IMAM JAYANTO, SOLIHAH TITIN SUMANTI, SUKARDIN, WAHID WACHYU ADI WINARTO, M. FADLI, MIKSUSANTI, ARIEF MUAMMAR, AHMAD TOHIR, AMIE PRIMARNI, ISKANDAR, IMAM ALI BASHORI</i>	✱

Mental Health Consequence Of COVID 19 Pandemic Among Health Care

Workers: Systematic Review

MEHNAZ ZAFAR, FATMA MAGDI



Factors Associated with Positive Life Assets in Adolescents: An Integrative Literature Review

WANICH SUKSATAN, BOVORNPOOT CHOOMPUNUCH, VACHIRA POSAI



Role Of Dental Pulp Stem Cells In Restoring Vision- Narrative Review

NEETHU ANN PREETHY.P, AHSANA.A, DR.DEEPA GURUNATHAN, DR.LAKSHMI.T



A Histological Review on Raktadhara Kala and Raktavaha Strotas and Its Modern Correlation

DR ANNU CHAUHAN, DR AJITKUMAR S WAHANE, DR MANEELA SHARMA

Oral Pulsatile Drug Delivery System- A Review

SYED GOUSE FIROZ, R.KOTHAI, B.ARUL



A Comprehensive review on Commiphora caudata (Wight & Arn).

P. SRINIVASAN, R. KOTHAI, B.ARUL

Hepatocellular Carcinoma-A Mini Review

R.VENKATESWARARAO, R.KOTHAI, B.ARUL

Microalgae-based Microbial Fuel Cells: A Review

VAANIE GODBOLE, MANOJ KUMAR PAL, PANKAJ GAUTAM



A Review on Face mask and its potential in preventing viral infections

REKHA GOSWAMI, ABHILASHA MISHRA, ANUP MISHRA

Removal of persistent and toxic Organochlorine pesticide using metallic nanomaterials from water: A review

PRIYANKA GUPTA

RESEARCH

Life review of elderly depression

DWI ROCHIMAWATI, BETIE FEBRIANA, WIWIT RIZKI, YASINTA AMALI



Development and application of ATR-FTIR spectroscopy for mixture homogeneity in pharmaceutical application

SYAIFUL CHOIRI, TEUKU NANDA SAIFULLAH SULAIMAN, ABDUL ROHMAN



The Increasing Damage in Tubular Cell of Infant Mice's Kidneys from Carbofuran Exposure during its Mothers' Lactation Period

EDI PURNOMO, WIDJIATI, HERMIN RATNANI, EPY MUHAMMAD LUQMAN



Trend of transsexualism problem and its implications towards muslim community in Malaysia

WAN IZZATI, WAN MOHD KHAIRUL FIRDAUS WAN KHAIRULDIN, ABDUL HANIS EMBONG, HASANULDDIN MOHD, WAN KHAIRUL AIMAN WAN MOKHTAR



Development and validation of RP-HPLC method for the estimation of pidotimod in tablet dosage form

GAYATRI GAGE, MITHUN RUDRAPAL, ANIL G. JADHAV, ATUL R. BENDALE, LAXMIKANT B. BORSE



- Evaluation of neurotoxicity of the ethanolic bark extract of Holarrhena pubescens Wall. ex G. Don in mice** ✖
SANJIT NAMASUDRA, PANKAJ PHUKAN, MEENAKSHI BAWARI
- Design, synthesis and evaluation of 2-aminobenzimidazole derivatives: strong candidate for PPAR gamma agonists.** ✖
ANTON SMITH A, MATHAN S, SUNILKUMAR D
- Prediction of Heart Disease Using Feature Selection and Random Forest Ensemble Method** ✖
DHYAN YADAV, SAURABH PAL
- Strategies for Antiviral Drugs from Plants by Targeting the Hemagglutinin, Neuraminidase and other receptors of Influenza A virus** ✖
SONU BANSAL, G. SIBI
- Drug-related problems among chronic kidney disease patients: a clinical pharmacist led study** ✖
DANIEL ROY, IBRAHIM SHANFAR, PRADEEP SHENOY, SHARAD CHAND, NANDAKUMAR UP, BHARATH RAJ KC
- Ethnopharmacology and drug development** ✖
SOLIGATA SARKAR, VARTIKA SRIVASTAVA
- Formulation and evaluation solid dispersion based fast dispersible tablets of domperidone** ✖
SHASHANK CHATURVEDI, MOHAMMAD ALIM
- Novel technique used in the design of floating tablets of captopril and its evaluation** ✖
MUNAGALA RAMYA, KOTHAPALLI BANNOOTH CHANDRASEKHAR
- Chloroquine and Hydroxychloroquine: the real saviours of Covid 2019?** ✖
RAVICHANDRA RAVI, CHARISHMA CHOWDARY PONUGUBATI, ROOPESH BORUGADDA
- Prescription writing skills among Dental Students in East-coast India.** ✖
M. PRASUNNA, P. ARCHANA, G. BHAVANA, SURESH CHAND YADDANAPALLI, PARVEEN SULTANA SHAIK, SRINIVAS RAVOORI
- An Efficient Classification of medical Images using Deep Learning Technique** ✖
ADALINE SUIJ.R, SANTHIS, UDAYAKUMAR E, SASIKALA R, BRIGHT ANAND D
- Predictors of Quality of life (QoL) among Qadisiyah medical student, Iraq.** ✖
HADI SUHAIL, ALI ABDULHUSSEIN MOUSA, SAAD MASHKOOR WALEED, YASMEEN ALI HUSSIEN
- Reflections on COVID-19 in India: A Survey** ✖
M. BALASUBRAMANIAN, S. BALAKRISHNAN
- Evaluation of Hepatoprotective Potential of Solanum melongena L. Fruit Peel Extract against Carbon Tetrachloride Induced Liver Damage in Wistar Rats** ✖
JAIDEEP SARKAR, NITIN KUMAR, PANKAJ GUPTA
- Metronidazole: Crystal Growth and its Structural Refinement**
RANJANA SHARMA, DIXIT PRASHER, R. K. TIWARI
- "Stability Indicating RP-HPLC Method Development and Validation for the Estimation of Remogliflozin Etabonate in Bulk and Pharmaceutical Dosage Form"** ✖
TUSHAR BHATKAR, AMOL V. BADKHAL, NITIN S. BHAJJPALE
- Pharmacokinetic & Therapeutic Efficacy of Hydrocholorthiazide with Losartan in Treatment of Hypertension by LC-MS/MS** ✖
GOUTAM MUKHOPADHYAY, SHYMODIP KUNDU, TRIPTI PAL, DEBASMITA MANNA, SAIKAT BHUNIA, PIYAL MAJUMDER, PAYAL JANA, ADITYA SARKAR
- Hydrogel Systems: Their Classification, Preparation and Biomedical Applications** ✖
SUMALATDA BALAMURUGAN, MANISHA MURALI, ARAVINDHANATHAN VENKATESAN, NAGASAMY VENKATESH D

- Medicinal Plants Used in Herbal Cosmetics with Special Reference to Anti-Dandruff** ✨
SHIV BAHADUR, RANJIT K. HARWANSH, PRASHANT KUMAR
- Perception on Novel Phytodrug Delivery System: NPDDS in Herbal Medicine** ✨
ARCHANA I, SELVAKUMARI E, GOPAL V
- Association of Childhood Obesity with Obese Parents and Other Familial Factors: A Systematic Review** ✨
ANKITA AWASTHI, BHASKAR GUPTA, PAPIYA BIGONIYA
- Biological Activities of Isatin Thiosemicarbazone Derivatives and their Metal Complexes: A Review of Past Three Decades (1991-2020)** ✨
KUSHAL NATH, SHAMBADITYA GOSWAMI
- A New Paradigm Shift in Formulation Development by Smart Drug Delivery System** ✨
ALANKAR SHRIVASTAVA
- Removal of Heavy Metals from Pharmaceutical Wastewater by Adsorption using Agricultural Waste: A Review** ✨
C GIRISH
- Covid-19 A New Global Outbreak: Diagnosis, Treatment and Prevention** ✨
AMIT KUMAR, AAKANSHA GOSWAMI, VIKRANT VERMA
- Similar Biologics: Current Summary and Future Outlook** ✨
ABHISHEK KERALLI, R SURESHKUMAR
- Comparative Evaluation of Reparative Dentin Formation by Using Different Pulp Capping Agents: An In Vivo Study** ✨
SNEHA MALI, SALEEM MAKANDAR, T.M. MANGALA, ABHIJEET PHASE
- Application of RP-HPLC method for stability study and quantifying decitabine in bulk drug and in pharmaceutical dosage form** ✨
SHIV GUPTA, NEETU SACHAN, PHOOL CHANDRA, ARUN KUMAR SHARMA
- Atherosclerosis and lifestyle modifications: An Overview** ✨
MAHIMA BHARATHI, SANDRA RAJENDRAN, NEETHU C.M, NAMITHA MARIA JACOB
- New safety signal for psoriasis associated with Angiotensin receptor blockers: qualitative and quantitative analysis using Pharmacovigilance tools** ✨
HARDIK BHATT, TUSHAR DESAI
- Preparation and Evaluation of Valsartan Cubosomes** ✨
PVISHNU, N.SADHANA, K.NAVEENABU, M.SUNITHA REDDY, K.MAHESWARI
- Evaluation of phytochemical and antibacterial activity of the crude extracts of Senna auriculata (L)** ✨
THAMIL V, N. BALASUBRAMANIAN, V. SHANMUGAIAH, C. KARUNAKARAN
- Evaluation of streptokinase efficacy on the elimination of thrombosed tunneled-cuffed central venous catheter obstruction in hemodialysis patients** ✨
HOSSEIN HEMMATI, MOHAMMAD TAGHI ASHOOBI, REIHANE EINOLLAHZADE, CYRUS EMIR ALAVI, MOHAYA FARZIN, ZAKIYEH JAFARYPARVAR, GHAZALEH HEMMATI
- Formulation and evaluation of mucoadhesive buccal patch containing captopril** ✨
CHAUDHARI KANARAM, ABHISHEK SHARMA, SHWETA AGARWAL, RB SHARMA
- Investigation phytochemical screening, antibacterial activity, and cytotoxic ethanolic extract of Geodorum densiflorum (lam.) Schltr from papua** ✨
ELSYE GUNAWAN, VERENA AGUSTINI, EVA SUSANTY SIMAREMARE
- Molecular Screening of Virulence Genes among Uropathogenic Enterococcus faecalis Isolated from patients in Al-Najaf City, Iraq** ✨
ZAID ABED, NABIL SALIM SAAID TUWAJJ
- A pilot study on jimutaka vamaana yoga in the management of eka kushta w.s.r to psoriasis.** ✨
MD HOSSAIN, MAHESH MP, CHIMANDA L KAMAR, SANGEETA T, RAHUL BANIK
- Optimization of etodolac loaded emulsomes by box-behnken design of experiment** ✨
VIVEK GILL, ARUN NANDA
- Exploring impacts of breastfeeding during pregnancy to the mother in Indonesian society** ✨
SHINTA RAHMAWATI, MUFDLILAH
- Investigating of the Factors affecting the occurrence of Medical Errors: A Survey of the Process-Oriented Approach** ✨
MORTEZA GHASEMI, MAJID TAHERI
- Design, Development and Evaluation of Atazanavir Sulphate Agglomerates by Crystallo Co-Agglomeration Technique** ✨
VEDANSHU MALVIYA,
- Formulation and evaluation of diacerein microemulgel topical drug delivery.** ✨
GANESH PAWBAKE, SATISH V. SHIROLKAR
- DNA Sequencing of blaSHV Genes among Uropathogenic Klebsiella pneumoniae Harboring blaCTX-M-15** ✨
SARA MOHAMED, MARY S. KHALIL
- Nutritional support with products of fruit origin in prevention of micronutrients deficiency in the "mother-child" system** ✨
T.A. BOBOMURATOV, S.K. RASULOV, Z.A. DZHURAYEVA, A.A.SAMADOV, O.A.KULIYEV
- Scabies complete clearance as a treatment efficacy: in Permethrin alone and in combined with oral Ivermectin: South Iraq-2019** ✨
DR. ABDULHUSSEIN
- Influence of Wet Digestion Methods on Total Iron Content In Single And Combined Juices of Solanum Anguivi L. and Emblica Officinalis** ✨
KARTHIKA PERIYASAMY, POONGODI VIJAYAKUMAR T
- Anti-biofilm activity of Azadirachta indica and Ocimum sanctum Aqueous Extract Combination against MRSA** ✨
SANCHIT SOOD, JOSEPH DAVIS
- Analysis of Some Aspects of The Morbidity of Health Workers with Temporary Disability** ✨
RAUSHAN ATANIYAZOVA, NURKHAN MUKHAMEDOVA, LOLA ISAKOVA, SAJIDA SHARIPOVA, HOSIYAT SADULLAYEVA
- Computed Tomography in Early Staging for Lung Cancer** ✨
JASUR HAQBERDIEV, GULBAHOR HODJAMOVA, MUNOJAT ISMAILOVA
- Features of affective disorders and compliance of patients with chronic renal failure receiving replacement therapy by hemodialysis** ✨
VASILA ABDULLAEVA, BOTIR T. DAMINOV, ABDULAZIZ A. NASIROV, JANNA T. RUSTAMOVA, YULIYA A.YEN

Optimizing the treatment of biliary disease in children with viral hepatitis
FATIMA NAMATIYUSAEVA, LAZIZ TUYGHIYEV, ZUKHRA MURUZOVA, NODIRA
YODGOROVA, ZUKHRA ORINSAEVA *

Analysis of factors contributing to neurotic disorders associated with stress
in female football players *

GAVKHAR TESHABAEVA, ISKANDAR MAVLYANOV

The new coronavirus - C?VID-19 in Uzbekistan *

GULBAHOR MATNAZAROVA, OMONTURDI MIRTAZAEV, ELENA BRYANTSEVA,
MULATTAR ABDUKAKHAROVA, NIGORA NEMATOVA, NILUFAR KHAMZAeva

Effectiveness of the method of nirvana innovative system in the
neurorehabilitation of children with hiv- encephalopathy *

SAIDA SAIDKHODJAEVA, YAKITKHON MADJIDOVA, ASAL ABDUMAKHITOVA

Self-education of medical students as a Factor of their professional
development *

DILNOZA USTA-AZIZOVA, KHULKAR LUTFULLAEVA, RANO IBRAGIMOVA

Radiological value of computed tomography in degenerative disease of
temporomandibular joint *

GUZAL KHAYDAROVA, MARAT KHODJIBEROV, RAKHIM YAKUBOV

Monooxygenase liver system in functional changes of the thyroid gland in
experiment

NASIRDJAN YULDASHEV, MOHIDIL RASULOVA, MAHAMADJAN NISHANTAEV,
MUHAMMADAMIN SHERTAEV, GULCHEHRA SULEYMANOVA

The level of biogenic amines and activity of cholinesterase's in patients with
uterine myoma *

NILUFAR AKHMEDOVA, SHOISTA GOZIYEVA, MAKILYO MAMADIYEVA,
SHOHIDA SATIMOVA, GULRUH QUZIYEVA

Endometriosis experience of non-hormonal drug therapy *

ASRANKULOVA DILORAMKHON, ABDHULLAEV RASDOL, ABDHULLAEVA,
MALIKA, ISAMADJANOVA SHAKHINOZ, ABDUKA?IROVA SEVARAKHON

Fertility recovery from polycystic ovarian syndrome *

BAHQDIR IBRAGIMOV, DILDORA KHUDDYAROVA, MADIYA IBRAGIMOVA,
ZARINA KOBILOVA

Developmental history of pediatrics in Turkestan *

TAGAEV MAMARAZAK, AKHMEDOVA MUBORAK, KARIMOVA MIYASSAR

Specific course of the clinical and neurovisual features of the cerebral stroke
caused by reversible cerebral vasoconstriction syndrome *

ELYOR TASHKENOV, GULNORA RAKHIM?EVA, DILFUSA ABDUK?IROVA

Differential diagnostic criteria for dilatational cardiomyopathy and
nonrheumatic myocarditis in children *

DILOROM AKHMEDOVA, DILFUZA RUZMATOVA, NIGORA ALIEVA, SAYDORA,
AKHMEDOVA

The share of hereditary nephritis in the nosological structure of nephrological
diseases among children in andijan region *

MARIFAT GANIEVA, MUQADDAS BOLTABOEVA, OXSANA YEFIMENKO, UMIDA
GANIEVA, LOLA HAYDAROVA, ZUVAYDA MIRZAEVA

Clinical evaluation of the course of dilated cardiomyopathy in children depending
on the debut of the diseases

YEFIMENKO OXSANA, HOLMATOV DAVRON, GANIEVA MARIFAT, GANIEV
ABDURASHID, KHANKELDIEVA HURMATKHON, GANIEVA UMIDA

Historical roots of formation of healthy lifestyle culture psychology in the family
AZAMAT SAIDOV

The reaction of newborn rats' tissues to the functional state of thyroid gland
of the female lactating rat *

SHAIRA KARIMOVA, NOSIR YULDASHEV, ZUHRA ZIYAMUTDINOVA,
HURSHIDA AKBARKHODJAEVA, NASIRA ALIMHODJAEVA

Organization of medical care for patients with eye injuries

ZEBINISO NIYAZOVA, SURAT GULYANOV, UMIDA GANIEVA, LYUBOV KHEGAY,
AYUSHON KAYUMOV

Perspectives of immortality (heichrysum) in modern medicine and pharmacy ✱
E.S. KARIEVA, R.K. SADIKOVA, K.N. NURIDULLAEVA

Nucleophilic substitution reaction of dichloroacetyl hydroquinone with sodium salts of oxyacids

SABOHAT SADIKOVA, ANVAR ABDUSHUKUROV, AZIMJON CHORIYEV, YULDASH TAKHIROV

Dynamics of clinical and neurological indicators in children with speech disorders on the background of transcranial micropolarization ✱

SAYDOLIM USMANOV, YAKUTKHON MADJIDOVA, DILDORAKHON AKHMEDOVA, IRODA NASIROVA, MUKHAMMADJON BOSIMOV

Chemotherapy tolerance in children with tuberculosis ✱
FATIMA TASHPULATOVA, MAHLIYO ABDUSALOMOVA

Relationship between photos and ICT ✱
GULNORA TASHMUKHAMEDOVA

Improvement of the regulation mechanisms of the land use diversification ✱
ALTIEV ABDURASHID, MAHSUDOV MUHAMMADBEK

Results of molecular genetic studies of progressing muscular dystrophies of dushen/Becker in Uzbekistan ✱

UMIDA OMONOVA, YAKUTKHON MADJIDOVA, UMIDA BABADJANOVA, NODIRA KHAMIDOVA, KAMILJON BOBONIYAZOV

Extended Spectrum Beta Lactamase E. Coli isolated from UTI Patients in Najaf Province, Iraq ✱
THUALFAKAR HASAN

Development and Evaluation of IER based Formulation of Ondansetron HCl

NADIR KHAN, HARJEET SINGH, VIDHAN CHAND BALA, VIKAS ANAND SAHARAN

The relationship of the adhesion of the oral cavity microorganisms with the finishing method of dental material restoration
K.A. SARYCHEVA, S.V. KAMENEVA, N.V. KUSHCHENKO, L.A. KRAEVA, D.S. USIKOVA

Aspects of Medical and Ecological Services in Natural Water Bodies System ✱
BELLA KHASHIR, SAIDA OLEGOVNA APSALYAMOVA, OLEGE ZACHIRIEVICH KHUAZH

Corona virus - herbal approach for boosting immunity and influencing viral activity ✱
ARSHEED IQBAL, HAIDER ALI QURAIISHI, SHABIR AHMAD BHAT, AFROZA JAN, ADIL RASHID

Tumor Necrosis Factor – a gene polymorphism in Gasoline prolonged exposure workers ✱
HADEEL AL-RRUBAEI, RANA S. JAWAD

Role of Charcoal as a limitation of a carbamazepine poisoning ✱
ENAMM ABDULLAH

Analysis of The Prevalence of Bronchial Asthma In Children In Outpatient Clinics. ✱
ZAKIROVA IRKINOVNA, JUMANOV DAVLAT OZODBEKOVICH, ABDULLAYEV ULUGBEK PULATOVICH, BOBAMURATOVA DILNOZA TURDIKULOVA, MIRRAKHIMOVA MAKTUBA XABIBULLAYEVNA

Synthesis, characterization and Study Bioactivity of Silver Nanocomposites ✱
MAIDA SALEEM, BASMA J. AHMED

Synthesis, polymerization and characterization of new poly (3,5- substituted-1,2,4-triazole from different nitriles and study their effect on anticancer and antioxidant.
BAHAA HAMZAH

Association between Serum Leptin Level and Insulin Resistance in Acromegalic Iraqi Patients with Type 2 Diabetes Mellitus ✱
HIND AHMED, WALAA AHMED AL-JEDDA, NOOR THAIR TAHIR

Follow-up of patients infected with Cystic Echinococcosis by measuring some immunological indicators before and after the removal of hydatid cysts ✱
ABTISAM QASIM, JAMEEL JERRI YOUSIF

Optical properties of different organic compounds: experimental and theoretical studies ✱
RAGHAD HATAM, ZAID M. ABBAS, MUSTAFA M. KADHIM, RAWAA A. KADHIM, SAIF I. MUSLIM

- The Problem of Increasing Number of Myocardial Infarction: Deaths in Densely Populated Cities**
USTINYA S. VASILEVA, ADELINA R. GALYAVEEVA, ALINA I. KHAERZAMANOVA, ALEXANDER N. RASIN, PAVEL N. KISLYY, LILJA M. ALLANINA, ELIZAVETA S. KONEVA ✨
- Effect of Purple Sweet Potato Extract Administration to Cigarette Smoke Exposure towards The Number of Androgen Receptors: Randomized controlled trial**
I. GUSTI AYU RATIH AGUSTINI, I NYOMAN MANGKU KARMAYA, I MADE JAWI, BAGUS KOMANG SATRIASA* ✨
- Cholinesterases inhibitors for treating Alzheimer's disease**
RANIA BAKR ✨
- Physiological effects of Prozac on cellular and Humoral components of blood of laboratory mice**
SHAYMA HANOON, AIAD GABER AREAN, WISSAM SAJID HASHIM ✨
- The Measurement and Histological Study of The Venom Gland and Aculus Sting In Iraqi Scorpio maurus Linnaeus, 1768**
ZEINA AL-AZAWI
- Synthesis and Characterization of some New Heterocyclic Compound containing Triazolidin derivatives and study their biological activity**
WISAM KURDI, SHIREEN RIDHA RASOOL
- Cinnamon Toothpaste Influence Enamel Demineralization**
SHAHAD AL-JANABI, RAHMA H. AL-HUSSAINY, BAYDAA ALI OTHMAN AL-RAWI ✨
- Synthesis of a novel Three-Dimensional nano co-polymer and studying the Ability of Drug Delivery System**
MAYYADAH ABD, MOHAMMAD N. AL-BAIATI ✨
- Synthesis a novel nano co-polymer and using as carrier drug system**
AMEL HASAN, MOHAMMAD N. AL-BAIATI, MOHANAD M. KAREEM ✨
- Synthesis, identification and structural of some transition metal complexes with New heterocyclic azo-schiff base ligand derived from 4-amino antipyrine**
LAYLA MOHAMMED, ABID ALLAH MOHAMMED ALI, RAHEEM TAHIR MEHDI
- Serological detection and hematological changes associated with Toxoplasmosis in thalassemia patients in Al-Samawah province**
NUHA MOUSA ✨
- Physicochemical Stability of Mixed Dexamethasone and Diclofenac Injection**
ZAINAB ABDUL, ZAID M ABDUL KHALIK, MOHAMMED KHUDHAIR HASAN, RAND FARHAD
- Testing the activity of Alkaloids extracted from Clorella vulgaris on the viability of Trichomonas vaginalis In vitro**
AMAL KHALAF
- Oxidative stress status in sera and seminal plasma and their correlation with lead (Pb) and cadmium (Cd) in Iraqi infertile male.**
SUHA HASAN, HATHAMA RAZOOKI HASAN ✨
- Preparation and evaluation of porosity osmotic pump tablets for sustain release of Glimepiride**
NUHA ABDULKHALEQ, AMAL A. ELKORDY, WEDAD K. ALI ✨
- Effect of Some Fillers on The Polyethylene Properties**
TALEB HASSEN
- Antimicrobial studying of (Imidazole) derivative from pyrimidine**
ASEEL KAREEM, HASAN T. QHANIM ✨
- Synthesis, Characterization, Theoretical Study and Biological Activity of Schiff base Metal Complexes Derived from Cefotaxime with 5, 5-diethyl-6-iminodihydropyrimidine-2, 4(1H, 3H)-Dione**
SAHAR HASSAN, ZAHRAA N. ABD, NAFEESA J. KADHIM, NIDHAL M. HASSAN ✨
- Etodolac Topical Spray Films, Development, Characterization and In-Vitro Evaluation**
ZAINAB SADEQ, ZAHRAA SALIM, ESRAA GHAZY ✨
- A Qualitative Exploration of Learning to Break Bad News among Medical Students in University of Cyberjaya**
RAFIDAH BAHARI, NORHAFIZAH AB MANAN, MARIA ZALINA ABD RAHIM, KAMALIAH MOHAMAD NOH, KRISHNA GOPAL RAMPAL, ABD RAHIM MOHAMAD ✨
- The Islamic Psycho-spiritual Therapy for Posttraumatic Stress Disorder (IPSP): A Study of Feasibility and Effects**
RAFIDAH BAHARI ✨
- The Impact of Helicopter Parenting on Mental Health through Self-efficacy among University Students**
CHEAH LIN, MARIA ZALINA A. RAHIM ✨
- Extraction and Optimization of Phenolic Compounds from Sesbania Grandiflora Flower Using Response Surface Methodology**
K.K. MOHANA, M.S. SHIVASAMY, J. JONY BLESSING MANOJ, S. SHANGAVI ✨
- Evaluation of Primary Health Care (PHC) - Universal Health Coverage (UHC) Alignment Using Modified Self-Assessment Tool in Malaysia**
KAMALIAH NOH, SITI HANIZA MAHMUD, MOHD SAFIEE ISMAIL, IZZATUR RAHIMI MOHD UJANG, RUSDI ABD RAHMAN, KOH KAR CHAI, RIMA MARHAYU ABD RASHID, NUR EZDIANI MOHAMED, AKMAL AIDA OTHMAN, ZURRIYATI YA'KUB, ROZITA HALINA HUSSEIN ✨

- Optimization of Bioactive Extraction from Solanum Nigrum Leaves by Response Surface Methodology and its Encapsulation by Spray Drying for Functional Foods** ✱
S. KAVIYA, S. KANDASAMY, K. KEERTHANA, R. MENAHA
- Construct Validity and Reliability of the Adherence to Malaysian Cupping Practice Guideline Questionnaire for Cupping Practitioners** ✱
M. AIN, A.R. ZAIRINA
- Sodium Content in Processed Food in Major Retail Outlets in Malaysia** ✱
K.J. MARYAM, N. NANI, A.R. RAHMAN
- Knowledge and Awareness Related to Salt in Food among Malaysian Young Adults** ✱
K.J. MARYAM, N. NANI, A.R. RAHMAN
- Correlation Study between Estimated 24-Hr Urinary Sodium Using Tanaka and Kawasaki Formula and Measured 24-Hr Urinary Sodium**
K.J. MARYAM, N. NANI, A.R. RAHMAN
- Prevalence and Factors Associated with Abdominal and overall Obesity in Sepang, Malaysia** ✱
NUR MAHAT, NORHAFIZAH AB MANAN, SABARIAH ABD HAMID, AHMAD FAIRUZ MOHAMMED, KANALIAH MOHD NOR, ABD RAHIM MOHAMAD, KRISHNA GOPAL RAJAPAL
- Factors Affecting Mother's Adherence towards Cerebral Palsy Home Exercise Program among Children at Hebron and Bethlehem, Palestine** ✱
MOHAMMED TAHAYNEH, SYEDA HUMAYRA, ABDOUL AZIZ FALL, HANNAH ROSLAND, AKRAM AMRO, ABDELKODOSE MOHAMMED, ABD. LATIFF MOHAMED
- Mental Health Problems among the Local Community of Megah Villa Apartments in Sepang, Malaysia** ✱
SAHIRA SAHMI, SITI SARAH ROSLI, ABD RAHIM MOHAMAD
- Feedback on Multimodal Gross Anatomy Practical Sessions: A Pilot Study** ✱
RESHMA ANSARI, SARA IDRIS, ATIKAH ABDUL LATIFF
- A Comparative Study of different Image Preprocessing Methods used for Multiple Car Detection and Tracking** ✱
NEELIMA SATHIESH, S. SUSMITHA, V. KANCHANA
- Cross-sectional Study on the Association between Burnout and Resilience among Clinical Years Medical Students in University of Cyberjaya** ✱
FLORA LOOI, FARAH FAIDAH BINTI FADZIL, SAZLIN AFFINA BINTI SAHIMI, MAD AL-FAQIH BIN WASIMAN, FEISAL HILMAN, RAFIDAH BAHARI
- A Review on Bird Classification on Different Dataset** ✱
P. RANJITHA, M.U. ANUSHA, G. PRAGNA SHEKHAR, PRIYANKA P. SHETTY, R. PUJNEETHA
- Wild Animals Intrusion Detection using Deep Learning Techniques** ✱
R.S. SABEENIAN, N. DEIVANAI, B. MYTHILI
- Edible Landscape in Future Kerala** ✱
C.S. ANANDALEKSHMY, ATHUL V KRISHNA, MOBIN JOHN, DAYANA DAS
- A Study of COVID-19 Symptoms Using Fuzzy Cognitive Map** ✱
A. KANCHANA, VINITHA NAVIS, VARUVEL
- Automatic Detection of Malarial Parasites from Blood Cells Using Soft Computing Techniques** ✱
K. KARUNHARAN, X. ANITHA MARY
- Synergistic and Localized E-Commerce Application** ✱
K. NAVEEN, K. SWITH CHANDRA, S. PRAYLA SHYRY
- Brain Tumor Segmentation and identification based on Image Processing FCM Clustering Algorithm**
A. KHAN, P. PRAYINA PRIYA, R. PRIYATHARASINI, A. RAESHMITHAA, R. RAMYA
- Zigbee based Condition Monitoring in AC Motors Using ATmega16** ✱
M. AMUTHA, A.P. JAYA KRISHNA, S. RAMKUMAR, B. OMYAA
- Level of vaspin and some variables in serum of Diabetes mellitus patients with different age in Najaf city** ✱
AHMED ABBAS, AHMED ZUHAIR JASIM, EBTIHAL CHIAD ABASS
- Effectiveness of biologically active substances from Hypericum Perforatum L. in the complex treatment of purulent wounds** ✱
YURIY VATNIKOV, PAVEL RUDENKO, MARINA SHOPINSKAYA, ANNA TOKAR, VERA ZHILKINA, DMITRY BOKOV, NATALIA BOBKOVA, NADEZHDA SACHIVKINA, EKATERINA LENCHENKO, ARFENIA KARAMYAN, EVGENY KULIKOV, SERGEY SHABUNIN
- Flax seeds – medicinal and edible herbal materials** ✱
BOKOV D.O., SULEYMANOVA M.S., KOLESNIKOVA V.V., CHEVIDAEV V.V., SAMYLINA I.A., KRASNYUK I.I. (JUNIOR), BESSONOV V.V., SOKHIN D.M., RENDYUK T.D., JANULIS V., KURBANOVA M.N., AFANASYEV N.V.
- Implications of Click Chemistry on Human Health** ✱
SHRITI SHARMA
- In vitro study of antibacterial and antioxidant properties of urine of Indigenous Badri cow** ✱
VIPIN NAUTIYAL, R.G. DUBEY
- Current regulatory requirements for cosmetics in USA and India**
MRS. SAVITHA, DR. M. P. VENKATESH, DR. BALAMURALIDHARA V.
- 'Iranian peroperative Nurses' Perception of Moral Courage and Its Relationship with the Professional Values** ✱
MARYAM CHEHREHGHOSHA, ZAHRA ROYANI, SOHEILA KALANTARI, NEDA ASADI, FATEMEH HOSEINI, NAVISA SEYEDGHASEMI
- Evaluation of antiamoebic activity of Ziziphus mauritiana leaf extracts in rats experimentally infected with Entamoeba histolytica** ✱
MANSOUR ABDULNABI, H. MEHDI, MAZHAR FAROOGUI, VIDYA PRADHAN

Evaluation and Reporting of Medication Errors (MEs) in A South Indian Teaching Hospital. POOJA SAGAR, THARA MARIYAN SUNNY, PRAMOD SAN, ALLURI SIVA CHANTHANYA VARMA, JUNY SEBASTIAN, JUSTIN KURIAN, ADEPU RAMESH	*
Hypoxic ischemic encephalopathy and sepsis: A case study DR. S. , SHIV DINESH DYARAPOGU, MUNEB AHMED SYED, MOHAMMED SAFI UR RAHMAN, AIMAL TEJ MATTHEW, PURUCHURU AJAY.	*
Hydrothermal Deposition Of TiCl4 Solution To Produce TiO2 Particles On The Surface Of Meranti Wood (Shorea Sp) KASHAN EDIPUTRA, SYUKRI, EMRIADI, HERMANSYAH LAZIZ	*
Formulation and Evaluation of Ibuprofen Lozenges SHAM ABDOUN, MALAK G. ALMUTAIRI	*
Perceptions and knowledge of parents of Saudi children on the efficacy of Nigella Sativa extracts in prevention of caries and gingival inflammation. HANADI ALWAFI, ABDULLAH ALFAYEZ, JAYAPRIYAA SHANMUGHAM, ATHANASIOS ZAVRAS	*
Study the perceptions, effectiveness and adherence Pattern of anti-diabetic drugs prescribed for type 2 DM patients in some Iraqi hospitals, specialized diabetic centers and private pharmacies. 20160737/6609 ZAHRA ALBASRY, LUBAB TAREK NATEA	*
Formulation and evaluation lipid polymer hybrid nanocarriers using a new innovative microwaves-based method ... HAYDER KACHIM DRAIS, AHMED ABAS HUSSEIN	*
Evaluation of Serum Lipid Profile after Treatment with Various Chemotherapeutic Schedules in Iraqi Breast Cancer Patients ZAINAB ANDER	*
Investigation of Antibacterial Effect and Expression of Alkaline Protease Gene in Pseudomonas Aeruginosa (PAO1) Using Copper Oxide, Copper Complex and Saturaja Khuzlatanica: RT-PCR Method RAZIYEH MOHSENI, MEHRI HOSSEINI, MEHRORANG GHAEDI, ASGHAR SHARIFI, HAMID REZA MOHAMMADI, FOROUGH MORIDOKIA, HASSAN ABIDI, DAVID ESMAEILI, SEYED REZA KHOSRAVANI, SEYED ABDOLMAJID KHOSRAVANI	*
Distinctive feature analysis to establish biochemical & spatial configuration of Bacopa monnieri NIBEDITA DEY, KOYAL R, MOHANAMBAL N	*
Cusp of Cerabelli in maxillary molars – A cross-sectional study NIVEDHAM, K. R. DON	*
Association Of Age And Gender In Patients With Class V Caries Indicated For Root Canal Treatment In The Age Group 60-80 Years ASHWIN KUMAR S.P, SURENDAR SUGUMARAN, SREDEVI DHARMAN	*
Prevalence of Average, Horizontal and Vertical Growth Pattern in Patients with Class I Malocclusion -A Retrospective Study PURVA VERMA, ARVIND S, NAVEEN M. KUMAR	*
Analysis of young adults with Midline diastema opting Orthodontic correction JANHVI MANOHAR, S. P. SARAVANA DINESH	*
Aloe vera as an herbal remedy in dentistry KAVIYA L. , DR. JAYALAKSHMI SOMASUNDARAJI	*
Prevalence of gingival bleeding during cord packing B. AISHWARYA REDDY, DHANRAJ GANAPATHY U, NIVETHICHA. B.	*
Assessment of prescribing pattern, adverse drug reactions and psychological distress in cancer patients at Erode Cancer Centre BHAVATHARINI SUKUMARAN, JINCY JAMES, KRISHNAVENI KANDASAMY, SAMBATHI-KUMAR RAMANATHAN, SARAVANAN GOVINDARAJ, VELAVAN KANDAPPAN	*
Matricaria chamomilla extract inhibits the metastatic potential of colorectal cancer cell line via reduction of matrix metalloproteinase enzymes activity HASSAN ABIDI, NAZANIN DANAEI, REZA MAHMOUDI, AREZOO SABET, MANSOURE ESMAEILI, MOHSEN NIKSERESHT	*
Assessing the Effect of Process and Formulation Variables on Quality of Solid-Lipid Nanoparticles by Quality by Design Approach SAMIHYA AISWAL, G. D. GUPTA	*
Prevalence of Co-Morbidities Associated with Hypothyroidism Among Infertile Women VIMALA PRASANNA, SHARUMATHI S. M, CINDY JOSE, SHAMUGA SUNDARAM. R.	*
Improving Shelf Life of Pharmaceutical products with Six Sigma: A Case study ABDALLAH ABDALLAH	*
Association between Severity of Decompensated Cirrhosis Measured with Model of End-Stage Liver Disease Score and Plasma Fibrinogen Level LUTHFIJANNAH, POERNOMO BOEDI SETIAWAN, MADE PUTRA SEDANA	*
Mechanism of Systemic Inflammatory Regulation in Sepsis Rat Models Through the Role of HMGB1, IL-17, IL-10 and Procalcitonin in Statin Administration MUSOFA RUSLI, USMAN HADI, JUSAK NUGRAHA	*
Procalcitonin, IL-15, HSP10 and Resolvin D2 Mechanism as Sepsis Biomarkers in Sepsis Model MUHAMMAD AFFRIANTO, USMAN HADI, YCES PRIATNA DACHLAN	*
In vitro cytotoxicity of Dragon Fruit Extract (Hylocereus polyrhizus) on Fibroblast Cell Culture WISNU JULIASTUTI, HENDRIK SETIA BUDI, DINDA AKHLAKUL KARIMAH	*
Maternal Cardiovascular Risk in Five Years after Labor with Early- and Late-Onset of Severe Preeclampsia ADITIAWARMAN, ERNAWATI, HERMANTO TRI JOEWONO, MUHAMMAD ILHAM ALDIKA AKBAR, NOOR ASSYIFA ZULHILYAN	*
The Effect of L-Arginine on Placental Growth Factor Serum Levels in Mouse Models with Preeclampsia ADITIAWARMAN, MANGGALA PASCA WARDHANA, DIANA APRILYANA NUR, HERMANTO TRI JOEWONO	*
The Effect of L-Arginine on Diameter of Spiral Artery and Fetal Weight between Normal Pregnant Mice and Preeclampsia Mouse Models ADITIAWARMAN, MANGGALA PASCA WARDHANA, LALITA EKA PERVITA SARI, HERMANTO TRI JOEWONO	*
Mozart's Compositions during Pregnancy Increase Newborns' Umbilical Serum Brain-Derived Neurotrophic Factors HERMANTO TRI, NIKEN WENING SURYANTI, MARGARITHA, MUHAMMAD DIKMAN ANGSAR, AGUS SULISTYONO, ADITIAWARMAN	*
HbA1c as a Predictor of Fetal Outcomes in Pregestational Diabetes Mellitus HERMANTO JOEWONO, RATH, AGUS SULISTYONO, ADITIAWARMAN	*
Procalcitonin, IL-15, HSP10 and Resolvin D2 Mechanism as Sepsis Biomarkers in Sepsis Model MUHAMMAD AFFRIANTO, USMAN HADI, YCES PRIATNA DACHLAN	*
Mechanism of Systemic Inflammatory Regulation in Sepsis Rat Models Through the Role of HMGB1, IL-17, IL-10 and Procalcitonin in Statin Administration MUSOFA RUSLI, USMAN HADI, JUSAK NUGRAHA	*
Association of Liver Fibrosis based on Transient Elastography and Quantitative HBsAg Levels in HBsAg-Positive Chronic Hepatitis B Patients TITONG SUGHARTONO, DEBRINA KUSUNIA DEVI, TITONG SUGHARTONO, UMMA MAIMUNAH, ISWAN ABAS NUSI, HERRY PURBAYU, ULFA KHOLILI, BUDI WIDODO, MUHAMMAD MIFTAHUSSURUR, HUSIN THAMRIN, AME VIDYANI, POERNOMO BOEDI SETIAWAN	*
Effect of Home Bleaching Agents on The Surface Hardness Of Flowable Bulk Fill Resin Composite DWITA ANGESTI, PRIYAWAN RACHMADI, ANITA YULIATI	*
Diagnostic for COVID-19: Application for Developing Countries ARYATI ARYATI, ERSA BAYUNG MAULIDAN, MUHAMMAD MIFTAHUSSURUR	*

Comparison of Diagnostic Value of Rapid Diagnostic Test Standard Q towards Microscopic and Nested Polymerase Chain Reaction in Suspected Malaria Patients	*
<i>AMARENSI BETAUBUN, CHRISTOPHORUS DE TAMA ADIATMAJA, TRIEVA V BUTARBUTAR, ARYATI, PUSPA WARDHANI</i>	
Association Between Neutrophil-Lymphocyte Ratio and Therapy Response in Diffuse Large B-Cell Lymphoma Patients Undergoing R-CHOP Chemotherapy	
<i>SHEILA NALIA, SUGROSENO YUDHO BINTORO, MADE PUTRA SEDANA, AMI ASHARIATI</i>	
The Level of Nutritional Adequacy, Physical Activities, and Body Endurance	*
<i>KARTIKA DEWI, MERRYANA ANDRIANI</i>	
Gingivectomy Management For Fixed Orthodontic Treatment	*
<i>MASRIANA YASIN, IRMA JOSEFINA SAVITRI</i>	
Changes in C- Reactive Protein/Albumin Ratio and Mortality within 30 Days in HIV/AIDS Patients	*
<i>ETTY PRATIWI, USMAN HADI, MUSOFA RUSLI</i>	
Association of Initial Vitamin D Level with CD4 Cell Count Changes in HIV-Naive Patients Receiving Antiretroviral Therapy	
<i>ROSITA BASKORO, USMAN HADI, MUSOFA RUSLI</i>	
Side Effects of Drugs in Patients with Nasopharyngeal Carcinoma Receiving Neoadjuvant Chemotherapy	*
<i>NADHILA PRATIWI, MUHTARUM YUSUF</i>	
Pediatric Logistic Organ Dysfunction-2, Pediatric Risk Of Mortality-IV And Pediatric Index Of Mortality-3 For Predicting Mortality In Pediatric Surgery Patients With Sepsis	*
<i>JEMMY SUTANTIC, FENDY MATULATAN, EDWIN DANARDONO, DOMINICUS HUSADA</i>	
The Effect Of 5% Povidone-Iodine Irrigation Compared To 0.9% NaCl In The Post Laparotomic Post Laparotomic Patient Network On The Number Of The Surgical Site Infections In Dr. Soetomo Hospital, Surabaya	*
<i>ALBERT LITANAGO, VICKY SUMARKI BUDIPRAMANA, TONY LESMANA, EDWIN DANARDONO</i>	
Release of Fluoride to the Addition of Nanoparticle Zinc Oxide with Glass Ionomer Cements	*
<i>LARASATI PUTRI, DEVI RIANTI, ENDANUS HARLIANTO</i>	
Association of 25-Hydroxyvitamin D Concentration and Frailty Degree in Elderly Community in Surabaya	*
<i>SARAH YUNARA, NOVIRA WIDAJANTI, JUSRI ICHWANI</i>	
Application of Purple Leaf Extract (Graptophyllum Pictum) In Wound Healing Process of Collagen Density	*
<i>MUHAMMAD BRAHMANANTYO, INTAN NIRWANA, DAN DEVI RIANTI</i>	
Inhibition Potency of Allicin In the Tooth Paste Against Lactobacillus Acidophilus: In Vitro Study	*
<i>NG HAN, DEVI RIANTI, RHELAL SOEKARTONO</i>	
Relationship between Mean Platelet Volume and Platelet Distribution Width with Type of Diabetic Retinopathy	*
<i>LIBRIANSYAH, SOEBAGJO ADI SOELISTJO, AGUNG PRANDITO, WIMBO SASOWO, DEASYARDIANI</i>	
The Impact Strength Of Heat Cured Acrylic With Citoan Nano Gel Combination.	*
<i>AHMAD FAUZI, ENDANUS HARLIANTO, SOEBAGJO</i>	
Serum Ferritin Levels and Lipid Profile in Patients with Transfusion-Dependent Beta and Beta/HbE Thalassemia	*
<i>TEGUH S WIBOWO, AMI ASHARIATI, SUGROSENO YUDHO BINTORO, SOEBAGJO ADI SOELISTJO</i>	
Correlation Of Mother's Behavior In Autistic Children With DMF-T Value And Dental Care Need	*
<i>INDAH FERMATASARI, TANIA SASKIANTI, MEGA MOEHARYONO</i>	
Papillary Bleeding Index In Public Health Service on Gingival Inflammation	*
<i>RATNA ALFIANDINI, OHKIUTA PRAHASANTI, POERNOMO AGDES WIBISONO</i>	
Rubbing Cacao Bean Extract In Improving Microhardness Enamel On Dental Bleaching	*
<i>MADE DANASWARI, R.MUHAMMAD YOGIARTONO, PRIYAWAN RACHMADI</i>	
The Effect of Chitosan from Squid Pena Toward Streptococcus Mutans	*
<i>SHERMAN SALIM, RATRI MAYA SITALAKSINI, FAILA SHOFA A, NIKE HENDRIJANTINI</i>	
Panoramic Radiography Observation Towards Mental Foramen Position	*
<i>NAZTASYA PUTRI, DENY SAPUTRA, YUNITA SAVITRI</i>	
Effect of Methanol Watery Extract of Cuscuta Chinensis in Rheumatoid Arthritis Induced Rats.	*
<i>AHMED SAADOON, DR MUSTAFA GHAZI ALABBASSI, DR.NADIA HAMEED MOHAMMED</i>	
Effect of SIRT1 Activators on Human Follicular Thyroid Cancer	*
<i>LAMEES TALIB, MUSTAFA-GHAZI-AL-ABBASSI, BASMA TALIB AL-SUDANI</i>	
PTEN Polymorphism in Employees Exposed to Chlorine Doses at Water Purification Plants	
<i>REEM K. IBRAHIM, AHMED SAMI FARHAN, MAHER R. ZEADAN</i>	
Health Benefits of Green Tea and Green Tea Catechins with an Overview on their Anti-Cancer Activity	*
<i>AMEERA KHALEEL, DR RAMZU BIN SHAARI, DR. MOHAMAD ARIF AWANG NAWI, DR. ALI SULTAN ALRIFI</i>	
Reasons for population dissatisfaction with primary health care	
<i>ARTUR ALMUKHAMEDOV, ANAS ANVAROVICH GILMANOV, ILDAR RUSHANOVICH ISKANDAROV, ARTUR MANSUROVICH ALMUKHAMEDOV</i>	
eHealth and Rare Diseases treatment in the frameworks of Cross-Border Healthcare: EU and EAEU.	*
<i>LENARA R.KLIMOVSKAYA</i>	
Assessment of Serum Zinc and Vitamin C as Antioxidants in Patients with Vitiligo in Babylon Province	*
<i>HADEER AL-HATTAB, BAN MAHMOOD-SHAKER AL-JODA, MOHAMMED KADHUM AL-HATTAB</i>	
Correlation of Vitamin D level with AMH and HMGB1 in pre and post-menopausal women in Babylon province	*
<i>SHAIMA R. IBRAHEEM, THANAA ABDULMAHDI MOKIE, RAJEEM TUAMA CBAYES AL- MAMMORI, HUSSEIN O. M. AL-DAHMOUSHI, NOOR S.K. AL-KHAFAJI</i>	
The Association Between Genotypes And Clinical Symptoms Of Giardia Lambia In Patients With Symptomatic Giardiasis	*
<i>SUNDIUS AL-HUCHAIMI, MOHAMMED KAMIL AL-HASSANI, ABDULKAREEM KHATTAR SHAALAN ALHATEMI, MAJIDA MALIK METEAB ALSHAHMARI, THIKRA A MAHMOOD</i>	
Inhibition of Staphylococcus aureus Growth Isolated from Teeth Decay Using Pomegranate Fat Extract Fortified by Silver Nanoparticles (AgNp)	*
<i>MOHAMMED FADHIL HADDAD, SAFAA M. SULTAN</i>	
The Relations of Knowledge, Attitudes, and Precautions with Asthma Control Levels in Patients With Asthma	*
<i>TINTIN SUKARTINI, ACHMAD RASYID RIDHO, HERDINA MARIYANTI</i>	
Relationship of The Family Health Task Implementation with Motivation and Adherence of Tuberculosis Treatment among Tuberculosis Patients	*
<i>TINTIN SUKARTINI, ALFIATIS SU'UDYAH, LAILY HIDAYATI</i>	
The Effect of Health Education with "Numbered Head Together" and Demonstration Methods on Menstrual Hygiene Behavior in Adolescent Islamic Boarding School	*
<i>ESTI YUNITASARI, NIFAYATUS SA'ADAH, SYLVIA DWI WAHYUNI, HARMAYETTY HARMAYETTY</i>	
Exclusive Breastfeeding Based on The Health Promotion Model in Madura Island	*
<i>ESTI YUNITASARI, ROFIKA WAHYU ANDRIANI, SYLVIA DWI WAHYUNI</i>	
The Effect of Family Psychoeducation Therapy on the Anxiety Level of Family of Patients with CRF undergoing Hemodialysis	*
<i>NANIK NIFAYATI, DIAH LESTARI, LAILY HIDAYATI</i>	
The Analysis of Family Support Factors in Exclusive Breastfeeding Based on Precede Proceed Theory	*
<i>MATILDIS SERAN, YUNI SUFYANTI ARIEF, IQLIMA DWI KURNIA</i>	
Maternal Behavioral Factors of Mothers with Neonatal Death in the Perinatal Period	*
<i>STEFANIA RAMDA, YUNI SUFYANTI ARIEF, ILYA KRISNANA</i>	
Does The Behaviour of Using Electronic Cigarette Correlates with Respiratory Disease Symptoms?	*
<i>FIDA AUNIASMA, NINUK DIAN KURNIAWATI, PRABA DIYAN RACHMAWATI</i>	
Combined Benson and Dhikr Relaxation Reduces Anxiety and Pulse Frequency of Inpatient Cardiacs in Hospitals	*
<i>ABU BAKAR, SUHARTATI SUHARTATI, LAILY HIDAYATI</i>	
Relationship between Disease Duration and Preventive Motivation with Quality of Life of Patients with Coronary Heart Disease at Productive Age in Cardiology	*
<i>NINUK KURNIAWATI, YULIA PUTRI ARIYANTI, LAILATUN NIKKIAH, ERNA DWI WAHYUNI</i>	
Study of the main factors influencing consumers' choice of innovative food products	*
<i>ISABKOVA O.A, BATURYAN M.A, SURAY M.M, PETROVA, L, PETROVA, L.I, PEREDNIKH L.V, GOLOSHCHAPCIVA L.V</i>	
Economic and Mathematical Models of Financial Incentives for The Personnel at Medical Organization Departments	*
<i>E.V.KOSTYRIN,</i>	
Analyzing the deduction of Serum Levels with Coronary Heart Disease	*
<i>ALI MOHAMMED, REZANI MAJEEDI OMER, SARIKI ANWARI JABBAR</i>	
Study of the effect of organochlorine pesticides on biochemical transformations in the process of obtaining grape materials	*
<i>PANASYUK A.L, KUZMINA E.I, KHARLAMOVA L.N, BABAeva M.V., ROMANOVA I.P, SHCHINYARH R.A</i>	
Relationship of Strength of Emulsions with Content of Oil in Aqueous Solutions of Corn Flour and Dry Milk	*
<i>VASYUKOVA A.T, ALEKSEY A.E, MGSHKINA V. BONDARENKO YU.V, UTYUZH A. S, KULIK A.A</i>	
Human Resource Work-Life Balance and Job Satisfaction in Pharmaceutical Counselling Services at Cendrawasih University, Papua - Indonesia	*
<i>FERDINAND RISAMASU, OSCAR OSWALD OKTOVIANUS WAMBRAUW</i>	
Psychoocial Wellbeing of Oral Diseases among Malayala Public University Patients	*
<i>FONNY HUTAGALUNG, AHMAD KAMARUL, HUTKENRI ZULNAIDI, CHEW FONG PENG, NOOR AISHAH ROSLI, JAMALIAH KASSIM</i>	
Soy Isoflavone Supplementation Reduces RANKL/OPG Ratio on Postmenopausal Women with Osteopenia	*
<i>ELLY HERWANIA, RIANTO SETIABUDY, SIDHARTAWAN SOEGONDO, ALI BAZIAD, ADI HIDAYAT</i>	

Pharmacokinetic and Toxicological Studies of Liposomal Amphotericin B Eye Drops on the Rabbit Eye <i>HUSNUN AMALIA, ARI ESTUNINGTYAS, RAHMAWATI RIDWAN, RATNA SITOMPUL, ROBIATUL ADAWIYAH, HANS-JOACHIM FREISLEBEN</i>	✱
Food Calorie Measurement and Classification of Food Images <i>S.MOHIDEEN PILLAI, DR.S. KOTHER MOHIDEEN</i>	✱
Antioxidant and Sunscreen Activities from Blackberry Extract in vitro using Spectrophotometry UV-Visible <i>NENI GUNARTI, ANGGUN HARI KUSUMAWATI, MAYA ARFANIA, FARHAMZAH, IIN LIDIA PUTAMA MURSAL</i>	✱
Ultrasonographic Assessment of Duration of Pregnancy by Utilizing Fetus Kidney Length in Second and Third Trimester <i>DR.ZENA.M.AL HINDAWI</i>	✱
Breastfeeding in Postpartum Women Infected with COVID-19 <i>CIPTA PRAMANA, JATI SUWANTORO, NENI SUMARNI, MEI LINA FITRI KUMALASARI, H.SELASIH PUTRI ISNAWATI, AGUS SUPINGANTO, KHOLIS ERNAWATI, LENNY IRMAWATI SIRAIT, NURAINI STARYO, NURHIDAYAH, KISROH DWIYONO</i>	✱
Social Workers Practices in Handling Corona Virus Pandemic with An Multisystemic Approach <i>MUHAMMAD EQUATORA, JAMALUDDIN HOS, SULSALMAN MOITA, ZULHAM IBRAHIM, LA ODE MONTO BAUTO, IMAN SANTOSO</i>	✱
The Use of Pharmaceutical Preparation of Phytosome Lepidium Sativum Extract as Anti-diarrheal Induced by the Bacteria E. coli in Mice <i>FARRAH R.JAAFAR, SHROOQ J.JASSIM, MOHANAD A.AL-BAYATI</i>	✱
Study the Causes of the Spread of a Disease Polycythemia Rubra Vera, (PRV) In the Youth Stage, It is Reflected in Heart Diseases, Blood Pressure and Increased Hemoglobin <i>DR.SALAH KADER</i>	✱
Papillary Endothelial Hyperplasia in Breast Lesions <i>DR REGINA BLOSSOM, DR.BHEEMA RAO, DR K.REKHA</i>	✱
Incidence of Incontinence after Lateral Internal Sphincterotomy in Almuthanna Province <i>ALI SADEQ, HUSSIEN ALI AL-HAMDANI, AYAD YAS KHUDHAIR</i>	✱
Pathological and Enzymatic Effect of Corynebacterium Pseudotuberculosis in the Liver of Mice Infected by Same Pathogen <i>K.J.AWNI, MUAYAD ABBAS HUSSEIN, T.G.Y.AL BADRAWI, HUSSEIN H.NAHI</i>	✱
Extraction and Purification of β-Galactosidase from Lettuce (<i>Lactuca sativa</i> L.) <i>SARI HUSSIEN, ABDULHAKHEEM DAHHAM HUSSEIN, OTHMAN GHAZI NAJEEB</i>	✱
Genetic Detection of Pseudomonas spp. and Microbial Quality Assessment in Marine Fish are Available in Local Markets of Baghdad City <i>ALIAA S.A.AL-FRAJI, SUDAD JASIM MOHAMMED, ADIL T. AL – MOUSAWI</i>	✱
Bio-psychology Concept of Illness through Premature Ejaculation Mechanism <i>MADE NYANDRA</i>	✱
Innovative Work Behavior during COVID-19 for Medical Representatives in the Pharmaceutical Industry: Test of a Moderation Model in Bahrain <i>SAAD DARWISH, UMAIR AHMED, MUNWAR HUSSAIN PAHI</i>	✱
A Case of 2019 Novel Coronavirus Infection in a Preterm Infant with Severe Respiratory Failure <i>NENI SUMARNI, LILIA DEWIYANTI, MADELINE HARI KUSMANTO, CIPTA PRAMANA</i>	✱
Simultaneous Determination Of Phyllanthin, Hypophyllanthin, And Niranthin In Rabbit Plasma By Lc-Ms/Ms <i>PHAM SON, TRAN LONG THAI, CHUONG NGOC NAI, PHAM THI THANH THAO, NGUYEN DUC TUAN, TRAN VIET HUNG, NGUYEN NGOC VINH</i>	✱
Simultaneous Determination of Amlodipine, Losartan, and the Losartan Carboxylic Acid Active Metabolite in Human Plasma by LC-MS/MS <i>CHUONG NAI, NGUYEN VAN TRUNG, TRAN LONG THAI, TRAN VIET HUNG, NGUYEN DUC TUAN</i>	✱
Relationship of The Family Health Task Implementation with Motivation and Adherence of Tuberculosis Treatment among Tuberculosis Patients <i>TINTIN SUKARTINI, ALFIATIS SU'UDIYAH, LAILY HIDAYATI</i>	✱
The Influence Of Students Class Differences On Habits And Knowledge Of Dental And Oral Health <i>ILHAM MUHAMMAD, JAEL SEGAH M.L, FATA ARIESTIA P, TASYA NAFATILA CHALISHA, DHINDA NOVIA, PANDU PUJI HARDINI, YASHICA ALIFIA AMANDA, AULIA RAMADHANI</i>	✱
Tocopheronic acid attenuates chlorpromazine induced liver injury in rats, targeting oxidative stress and same biochemical markers <i>ATHEER YASEEN, ANEES ABBAS YASEEN AL-FATLAWI</i>	✱
Effect of new synthesized compounds of 2-Thiouracil Sulfonamide Derivatives against colon and liver carcinoma cells "In Vitro Study" <i>SAIF M.HASSAN, ASHWAQ NAJEMALDEEN ABBAS AL-JAF, YASMEEN ALI HUSSIEN, SAMIR M.AWAD, MAYSAA ALI ABDULKHALEQ, NAJAH R.HADI</i>	✱
Innovit E 60 supplement: effectiveness in poultry feeding <i>VASILY G. FRIZEN, MARINA I. SLOZHENKINA, ZOYA B. KOMAROVA, SERGEI M. IVANOV, TATYANA V. VORONINA, ALISA V. RUDKOVSKAYA, ANDREY V. KULIKOVSKY, DANIIL V. FRIESEN</i>	✱
Actual problems of surgical treatment of intraarticular fractures of the distal humerus <i>M.AL ABDULLAH, E.I SOLOD, N.V.ZAGORODNIY, M.A.ABDULKHABIROV</i>	✱
New approaches to osteosynthesis of ankle fractures <i>MAKRAA, E.I SOLOD, N.V.ZAGORODNIY, M.A.ABDULKHABIROV</i>	✱
Scientific Process Skills Learning, Biotechnology Materials, and Character Building <i>RINTO, FIKRIYAH, BAGUS NURUL IMAN, HANIKAH, AHMAD MUNAJIM, SATI, DIANA SETIANA, MIMIN DARMINI</i>	✱
Morphometric analysis of foramen of Civinini - an anatomical guidance for maxillofacial surgeons <i>SUSHMA B, KARTHIK GANESH MOHANRAJ, THENMOZHI M.S</i>	✱
Knowledge, frequency and health hazards of overuse of mobile phone among Chennai population - A questionnaire based survey <i>B.VIVEK BABU, KARTHIK GANESH MOHANRAJ</i>	✱
Autotransplantation of an impacted maxillary canine in a young male - a case report <i>DR BHAT, PROF.DR.SENTHILNATHAN PERIASAMY MDS, DR MURUGAIYAN ARUN</i>	✱
Assessment of ns1, igg and igm antibodies in suspected dengue patients <i>SHARMILA R, N.P.MURALIDHARAN</i>	✱
Awareness of different polishing systems available for direct aesthetic restoration in dentistry <i>LASYA GENJI, DHANARAJ GANAPATHY, KEERTHI SASANKA</i>	✱
Assessing knowledge, attitude and practise regarding recurrence of oral mucocele among dental practitioners <i>DR BHAT, PROF.DR.SENTHILNATHAN PERIASAMY MDS, DR MURUGAIYAN ARUN MDS</i>	✱

Assessment of knowledge, awareness and practice of surgical gutt among oral and maxillofacial surgeons <i>SNEHA KRISHNAN, SENTHILNATHAN PERIASAMY, ARUN MURUGAIYAN</i>	*
A survey on use of digital study models in postgraduate orthodontic programs <i>AKSHAY MOHAN, HARISH BABU</i>	*
Awareness of oral cancer among high school students <i>ASHNIA Y., DHANRAJ GANAPATHY, L.KEERTHI SASANKA</i>	*
Assessing The Relationship Between The Cervical Vertebrae Maturation Stages And Permanent Maxillary Canine Calcification Stages - A Retrospective Study <i>ANJALI THOMAS, ARAVIND KUMAR SUBRAMANIAN, REMMIYA MARY VARGHESE</i>	*
Knowledge, attitude and practice regarding toothbrush disinfection among dental students in Chennai: A cross sectional study <i>MANALI BARMIA, JAYASHRI PRABAKAR, MEIGNANA ARUMUGHAM INDIRAN, PRADEEP KUMAR R, SRISAKTHI DORAKANAN</i>	*
Mutation and gene expression analysis of Cytochrome P450 Family 1 to decipher the association with HNSCC <i>PRADYA N, SMLINE GIRJA A S, PARAMASIVAMA, VIJAYSHREE, PRIYADHARSHINI J</i>	*
Knowledge and awareness of cad cam surgical guide in digitalization of implants among dental practitioners. <i>KEERTHIKA S., SUBHABRATA MAITI, JESSY P</i>	*
Knowledge, awareness and practice on management of left III fractures among dental students- a survey <i>PREETHA PARTHASARATHY, DHANRAJ GANAPATHY</i>	*
Candidal Species Seen In Oral Cavity of Children with Type I Diabetes Mellitus <i>DR SOPHIA G, DR DEEPA GURUNATHAN, DR MERIN GEORGE MATHEW</i>	*
Evaluation Of Accuracy And Reliability Of Oneceph Digital Cephalometric Analysis In Comparison With Autoceph Digital Cephalometric Analysis <i>AKSHAY MOHAN, HARISH BABU</i>	*
Analysis of emissary foramina in parietal and occipital bone and their clinical implications <i>HARIPRIYA R., KARTHIK GANESH MOHANRAJ</i>	*
Awareness on computer aided design and its applications among general dentists: a knowledge, attitude and practice study <i>SUBASHRI A., DHANRAJ GANAPATHY</i>	*
Knowledge and attitude of endodontic treatment of primary teeth among various specialists <i>SUBASHRI A., GANESH JEEVANANDAN</i>	*
Practice of sterilization of dental burs among dental students <i>N.MOHAMED ARSATH, DHANRAJ GANAPATHY, KEERTHI SASANKA</i>	*
Insomnia among the dental college students <i>ALDRINA, DHANRAJ GANAPATHY, L.KEERTHI SASANKA</i>	*
Evaluation of laser guided infrared thermometry as an auxiliary tool for pulp vitality assessment-a clinical study. <i>K.AJITH KAMATH, JEEFAT NASIM</i>	*
Knowledge And Awareness About Class II Dental Caries Among Dental Practitioners Among The South Indian Population. <i>RINIESHAH R BASKRAN, MANISH RANJAN</i>	*
Surface Modification of Titanium Dioxide Microparticles Under Ultrasonic Treatment <i>O.A. BUTUSOVA</i>	*
Renewal of <i>Fraxinus mandchurica</i> Rupr. in Mixed Coniferous-broad Leaved Forests of the Southern Far East <i>ANDREY KOMIN, PAVEL ANDREEVICH KOMIN, VLADIMIR NIKOLAYEVICH USOV</i>	*
The Effect of Kebar Grass (<i>Biophytum petersianum</i> Klotzsch) Extract on the Number of Leydig Cells of Mice (<i>Mus Musculus</i>) Treated with TCDD <i>MILLA NURSADIDA, HANI PLUMERIASTUTI, YEMI DHAMAYANTI, WDJATI, EPY MUHAMMAD LUQMAN</i>	*
The effectiveness of the test plant on account of somatic mutations in leaves of soybean <i>glycine max</i> (L.) Merrill. <i>BITTUEVA MUKHAMMADOVNA, BOGOTOVA ZALINA KHISANOVNA, PARITOV ANZOR YURIEVICH, KHANDOKHOV TAKHIR KHAMIDBIEVICH, SABANOVA RAYA KADIROVNA</i>	*
Comparative biological studies, phytochemical screening and GC-MS analysis of some Egyptian Red Sea macroalgae <i>SHIMAA AHMED, AZIZ A. RAHMAN, KHALED N. H. ELSAYED, SAYED A. AHMED</i>	*
The model of interprofessional collaboration practice based on public services in comprehensive emergency obstetric and neonatal care service <i>SULISTYANINGSIH, Y. WARELLA, SUJOPO PATRIA JATI, MEJDIANA DWIJAYANTI</i>	*
Design, synthesis, molecular docking and antibacterial evaluation of novel isoniazid derivatives bearing 1,3,4-Oxadiazole and 1,2,3-Triazol moieties <i>MAZEN JWAID, KARIMA FADHIL ALI, NAYADA HADI ABD-ALWAHAB</i>	*
Factors affecting the quality of life of Thalassemia β major children <i>MEIYANTI, NOVIA INDIRANI S., EVELINE MARGO, LIE T MERUANTI S</i>	*
Implementation of Sodium Lignosulfonate (SLS) surfactant from bagasse for enhanced oil recovery process: An observation of laboratory research <i>RINI SETIATI, AQLYNA FATAHAMISSA, ARINDA RUSTAWATI, SUGIATMO KASMUNGUN, ABDUL HAMID, ASTRI RINANTI</i>	*
High Mobility Group AT-Hook 2 expression is elevated in cervical cancer <i>MONIKA HARTANTI, ELSHA DWI ANGGUN RACHMADHANY, ITA TAZKIATUL QZATI MUSTOPA, ELRIAN SYAPUTRA, ELFIRA SUTANTO, GATOT PURWOTO</i>	*
Organizational-Pedagogical Conditions Of Forming Medical College Students' Professional Competences <i>SYCHEVA VAHITOVNA, REZIDA AKHATOVNA FAHRUTDINOVA, RAIKUL KENESBAYEVNA DUANOVA</i>	*
Resilience of children with writing disorders <i>SHAMIL SHEYMARDANOV, OLGA SHTERTS, OLGA SHATUNOVA</i>	*
Toxic effects of neurotoxins (Anatoxin-a) purified from blue-green algae <i>Pseudoanabaena limnetica</i> on some organs in laboratory mice (<i>Mus musculus</i> L.) <i>NARWA A.AUBAEED, KASSIM F. ABDULKAREEM, ALAA S.KATHIM, EMAD YA. AL-SULTAN</i>	*
Posterior Segmental Osteotomy Of Maxilla using Piezoelectric device- An Alternative for Vertical Maxillary Excess- A Case Report <i>DR SUBHASHINI R, DR ABDUL WAHAB P U</i>	*
Self-Awareness to Undergo Orthodontic Treatment Among Adolescents-A Survey <i>PRAVALIKA, DHANRAJ GANAPATHY, KEERTHI SASANKA</i>	*
Prevalence of Maxillary Canine Impaction in Various Types of Skeletal Malocclusion-A Retrospective Study <i>H.SRUTHI., SRIREENGALAKSHMI</i>	*
Awareness on Nipah Virus Among College Students <i>PREETY RAJESH, DHANRAJ GANAPATHY</i>	*
Impact of Brushing Teeth at Night Before Sleep <i>NGOLUBINAH PRETTY, DR DHANRAJ GANAPATHY, L.KEERTHI SASANKA</i>	*
Knowledge and Awareness About Uses Of Dental Surveyors Among Dental Students- A Survey <i>KIRAN KANNAN, DHANRAJ GANAPATHY, VIVEK NARAYAN</i>	*
Awareness on Anger Management Among Dental Students <i>M.B.SAI KEERTHANA, DR.DHANRAJ GANAPATHY, L.KEERTHI SASANKA</i>	*
Oral Hygiene Practices Among Preschool Children In Salem <i>SARVASRI T, DHANRAJ GANAPATHY, KEERTHI SASANKA</i>	*
Knowledge, Awareness on Harmful Effects of Smoking Among High School Students - A Survey <i>SUTHARSHAN S, DHANRAJ GANAPATHY, L.KEERTHI SASANKA</i>	*
Sealing Ability of Mta Vs Biodentine In Repair of Furcal Perforation of Primary Molars: An In Vitro Study <i>PAVITHRAA SANKAR, MAJESH RAMAKRISHNAN</i>	*
Knowledge, Attitude and Awareness of Long Acting Bupivacaine Among Dental Students- A Survey Based Study <i>RANKIZHAI R, DHANRAJ GANAPATHY, SUBHABRATA MAITI</i>	*
Socket preservation with palatal Free Gingival autograft- A Case Report. <i>JATHIBAN RAJ, PRIYA LOCHANA GAJENDRAN, THIYANESWARAN NESAPPAN, ABHINAV RAJENDRA PRABHU, SUBHASREE R</i>	*
An Evaluation of Antimicrobial Effect of Sodium Valproate Against Oro-dental Pathogens <i>CHAITANYA P, EZHILARASAN D</i>	*
Knowledge Attitude and Practice of Radisection And Hemisection Among Interns and Dental Practitioners <i>HARRITA S., DHANRAJ GANAPATHY</i>	*
Clinical Evaluation of Pink Esthetic Score And White Esthetic Score Between Natural Teeth And Single Implant Supported Crown in The Anterior Maxilla. <i>VAISWALI PRIYADHARSHINI, PRIYA LOCHANA GAJENDRAN, THIYANESWARAN NESAPPAN, ABHINAV RAJENDRA PRABHU</i>	*

- Molecular Identification and Phylogenetic Analysis of Rotavirus in Children Suffered from diarrhea under Five Years Old in Thi-Qar Province, of Iraq** ✖
MOHAMMED N.FEHLAN, BASIM A. JARULLAH, SHAYMAA JAWAD ABDULRAHMAN, ALI B. ROOMI
- A Study of Anti-Fungal Activity for Some Antibiotics Against *Aspergillus* spp. and *Candida* spp. in Iraqi patients with Diabetes Mellitus** ✖
MUATAZ AL-TAEE, AHMED YASEEN AL-TARBOOLEE, WISAM HASAN HADI
- Expression Of (CD105) And (VEGF-R3) In Dermoidcyst** ✖
MUJEEZ ABDIL KHALIQ MALEH, HUSAN ABDULLAH KUMAIL
- Activity of a novel Seleno-diazole derivative compound on primary neuron cells isolation from cortex and hippocampus of 18th day aged fetus of pregnant Wister rat** ✖
NADHEERAH F.NEEMAH, SHAKER A.N AL-JADGAN
- The response of hypoalbuminemia, hypocalcemia and hypercholesterolemia to regular treatment in a group of pediatric patients with nephrotic syndrome** ✖
RAID HASHIM, JSRAA NATHIR, NADIA MOHAMMED KHALIL
- Evaluation Of The Execution Of Precautionary Measures To Diminish The Prevalence Of Covid-19 Pandemic At Al-Nasiriya City Southern Iraq** ✖
RAWAA ABO
- The effects of irisin on the transforming growth factor-beta1(TGF- β 1) level in type-1 diabetic patients in Thi-Qar province.** ✖
SAMID H.AL BADRY, ALI A. AL-KHUZAYY, SHAYMAA A. KHALAF, ALI B. ROOMI
- The comparison between male and female of infection *Cryptosporidium* in Baghdad** ✖
SAFA T.WHAEEB, ZEID ALSADOON, MUTHANNA NAEEMAH KARAM ALTAEE, ERRA A. ALSHAKIR, HASANAIN SAHIB SALIH, FAISAL ALI LATTEF, RAFAL SALAM KADHIM
- The Relation Between Fibroblast Growth Factor 21 and Oxidative Stress in Insulin Resistance With Diabetics** ✖
SAFAA SABAH, THIKRA ALI ALLWASH
- Radiographic evaluation of intercranial bone loss in smoking patients in holy Kerbala city** ✖
SAMEER HATEM ABDUL HALEEM, SANAA JAMAL MAHMOOD
- Histopathological study on Aborted Women with Toxoplasmosis** ✖
THAER ABDULQADER SALIH, NOOR HAMEED HANOUSH, MLINA SALAH RASHID
- Studying Effect Of Using Drugs of (Clomiphene citrate, Bromocriptine) on physiological & biochemical Parameters In the women have hormone disorder.** ✖
SARIA NAJI MUHSIN, AYA SAAD YASEN, SINA NAJI MUHSIN
- HPV 52 most dominant Human Papillomavirus (HPV) genotype in women infected by Human Immunodeficiency Virus (HIV) that get antiretroviral treatment (ART)** ✖
RISNAWATI, ARIAWAN SOEJEDMOES, SUHARYO HADISAPUTRO, MUCHLIS AU SOPRO, SAMSURIDJAL DJAUZI, MOOR PRAMONO, ARI SUWONDO, DENDI DURAHMAN, JULIAN PRATAMA
- Effects of single and intermittent glucose exposure on hyaluronic acid, heparan sulfate, and syndecan expression in HUVECs cells** ✖
DEWI INDAH NOVIANA PRATWI, NIA KANIA, MARIS WIGGODO, KUSWORINI HANDONO
- Clinical impact of antibiotic sensitivity in patients afflicted with diabetic foot ulcer** ✖
DENLIA TINTU ALEX, NAZIYA NAVAS, SAMBATH KUMAR R, SUMITHA S.K
- Diammonium Phosphate and Sucrose Enrichment on Fermentation for Antibacteria Activity by Lactic Acid Bacteria** ✖
DAVID YUDIANTO, ELLYAS ALGA NAINIBOLAN, DHINA APRILIA NURANI, WIDYAHAPSARI, ANDITA SAYEKTI, JONI KUSNADI
- Association between Pregnancy Exercise and Sleep Quality in Second Trimester Pregnant Women** ✖
YOGA ERLAMBANG ANJASMARA, IRMIYA RACHMIYANI
- Differences in Hemoglobin and Ferritin Levels in Neonates from Mothers with and without Iron Deficiency Anemia** ✖
ARNI AMIR, ERYATI DARWIN, AJINAL MARDIAH
- Comparison between Effect of Fenitoin and Valproic Acid on Total Cholesterol in Epilepsy** ✖
FARISA AULIA, YUDHISMAN IIRAN
- Analysis of LGBT Factors in Religion, Law, Health, Psychology and Community Perspectives in Bukittinggi** ✖
EVI HASNITA, MURHAYATI, NEILA SULUNG, OKTAVIANIS, MILA SARI, ZURaida, DAHLIA MURNI
- Omega-3 Fatty Acids Relieve Dysmenorrhea among Female Senior high School Students** ✖
WISNU KUNDORDAJI, IRMIYA RACHMIYANI
- The Correlation between Homocysteine and Bone Mineral Density by Terminal C – Telopeptide Crosslink Serum Test on Post – Menopausal Women** ✖
IRMIYA RACHMIYANI, YUDHISMAN IIRAN, DONNA AGRANI, LILY M. SURJADI, RULLY AYU NIRMALASARI, TUBAGUS FERDI FADILLAH
- Determination Effect of Probiotic Supplements on the Body Biochemical Markers in Obese Rate** ✖
SAIF T.JASIM
- Phylogenetic Tree of Some Nosocomial Bacteria Isolated from Ramadi Teaching Hospital** ✖
YASAMEEN HASAN ALI, AYSER ASHOUR KHALAF, FARAH JIHAD QANBAR, SADE ABDALKAREEM JASIM
- Fabrication of novel topical drug loaded elastic membrane vesicles of liposomes as a tool for dermal delivery in effective treatment of psoriasis** ✖
S.NAGALAKSHMI, V. NIVATHRA, S. SHANMUGANATHAN
- A Study To Assess The Prevalence Of Low Back Pain Among Adults At Selected Villages Under Rural Health Training Centre** ✖
DR.R.POONGODI, MRS. SARKUNA RAJALET.S, SNEHA VARGHESE
- Validation Of Tamil Version Of The Anemia Knowledge Questionnaire (AKQ)** ✖
ARUNA SUBRAMANIAM, SIRALA NALINI JAGADEESH, POONGODI RANALINGAM, P. SARANYA
- The risk of peripheral neuropathy among persons with diabetes residing in selected villages at Thiruvallur district, Tamil Nadu, India** ✖
R.FAUSTINA PAVITHRA, DR.ARUNA.S, DR. RAJARAJESWARI KUPPUSWAMY

- Effectiveness of Structured Breast Self-Examination Teaching Programme Using Breast Simulator on Knowledge and Attitude Among Working Women in Selected Companies ✖
SOUNDARYA.G , POONGODI RAMALINGAM, ARUNA SUBRAMANIAM
- Compare the effectiveness of neurodynamic mobilization and PNF program in improving sensorimotor function in diabetic neuropathy in lower limbs ✖
DETETI SAIRAM, SURESH J
- Physiotherapist Perception and Attitude of Treating Transgender ✖
NITHYA M , SURESH J
- ADMINISTRATION HEALTHCARE SYSTEM: Advancing the Knowledge and Skills of Nurses' Professional Working with Family Caregiver of Mental Illness ✖
CHAIRUN NASIRIN, ANDRIES LIONARDO
- Diastolic Blood Pressure Related to ABI Values Use for Peripheral Arterial Disease Screening in Women Over 50 Years Old ✖
LIE TANU MERLIANTI, PUSPARI, MEYANTI, ALVINA, M TJAHJADI
- Cobalamin and Methylmalonic Acid as Biomarkers of Vitamin B12 Deficiency in Elderly ✖
PUSPARI, ALVINA, LIE TANU MERLIANTI, MEYANTI
- The Relationship of Treatment Compliance Level and the Quality of Life of Elderly Patients with Hypertension ✖
D.I.PERMATASARI , MEYANTI
- Promising Preclinical Data to a Possible Antidiabetic Drug ✖
RUSUL AHMED TARIQ, BASMA TALIB AL-SUDANI, INAM SAMETI ARIF
- The Miswak (Salvadora Persica) Chewing Stick: Muslim Consumer Behavior Of Halal Oral Hygiene Product ✖
SUSILAWATI , TAUFAN BRAMANTORO, DINI SETYOWATI, KEYOLA LAULA OLIVIA
- Estimate levels of the liver enzymes and serotonin immune localization in the brain of rats administrated orally with sodium benzoate. ✖
LEENA ADEEB MEHDI, ALAA MOHAMMAD HASSON
- Correlation of body mass index and vo2 max in physiotherapy students ✖
MALARVIZHI D, METHA K S
- Comparison Pm10 Distribution Between Control Sites And Research Site In Rawang City, Selangor ✖
MOHD HAIRY IBRAHIM, MOHAMMAD IHSAN MUHAMAD ISMAIL, NOR KALSUM MOHD ISA, SHARIF SHOFIRU SHARIF ALI, MOHD HISHAMUDIN CHE OMAR, MIFTACHUL HUDA, ANDINO MASELENO
- Flood Risk Assessment in Beaufort, Sabah, Malaysia ✖
ADI JAFAR, NORDIN SAKKE, CHONG YUN HUNG, MOHAMMAD TAHIR MAPPA, MOHD HAIRY IBRAHIM, MOHD HASHIQ HASHIQA, MIFTACHUL HUDA, ANDINO MASELENO
- Investigation Of Water Quality Level In Behrang Forest Reserve Catchment, Perak ✖
MOHD HAIRY IBRAHIM, SUMAYYAH AMI MOHD NAJIB, NOR KALSUM MOHD ISA, KAMARUL ISMAIL, MOHD HASHIQ HASHIQA, MIFTACHUL HUDA, ANDINO MASELENO
- Defective ground hexagonal patch for Biomedical applications. ✖
MANJULATHA TELKAPALLI, DR. K.CH. SRIKAVYA
- Psychology of the Students During, Pre & Post Covid-19 ✖
E.LAKSHMIANA SWAMY, P. N. V. BALA SUERAMANYAM, MOHAN AWASTHY, MOON BANERJEE
- The Knowledge of Pregnant Women about the First 1000 Day Life Program ✖
TRI SUNARSIH, DIAH AMANTA KARUNIA DEWI, ENDAH PUJI ASTUTI
- Pharmaceutical Analysis of Drakshadi Syrup - A Polyherbal Ayurvedic Hematinic ✖
ABOLI PATIL, RAJANISH METI, SWAPNIL CR
- Helicobacter Pylori and Recent Ischemic Stroke: Is there a Relationship? ✖
AHMED KHALID ALDHALIM, LAITH ALDABBAGH, AHMAD JABBAR HAMAD, SADIQ J. AL-MUHANA, HAYDER K. HASSOUN, MOHAMMED DHAMIN ALAREEDH, AHMED ALMUDAFFER, JABER HATIF JABER
- Single – Center Assessment of Short-Term Morbidity Associated with Ureteric Stone ✖
ASRAA TAHA HAMED, ALI HADI SABHAN
- Knowledge perspective and use of unconventional complementary and alternative therapy among diabetes patients attend diabetic center in Al-Diwanyia teaching hospital ✖
ATHMAR HAMZA KHUTTAR, HASSAN RAJI JALLAB
- Microbiology and Drug Sensitivity Pattern for Patients with Chronic Otitis Media in Al-Diwanyia Teaching Hospital ✖
BASSAM ABDULAMEER MOHSEN, ALI ABDULAMEER JWAD
- Prevalence of anemia in patient with chronic heart failure attending Al-Diwanyiah Teaching Hospital ✖
HASSAN RAJI JALLAB, MANAR ABBASS KADHIUM
- Sociodemography and Clinical Features of Psoriasis in Patients Attending Dermatology Clinic in Al-Diwanyiah Teaching Hospital ✖
HASSAN RAJI JALLAB, NUHA JABBAR DABBI
- Prevalence and Risk Factors of Abortion Among Patients Attending Maternity and Children Teaching Hospital in AL-Diwanyiah-Iraq ✖
YASAMIN HAMZA SHARIF, RANA MOHAMMED HASSEN
- Predictive Value of Estimated Serum Uric Acid in Patients with Acute Coronary Syndrome in AL-Diwanyiah Teaching Hospital ✖
ALAA HADI ALESSAMI, ZAHRAA ADNAN MOHAMMED
- A new stage in the development of the chemical and pharmaceutical industry during transition to the knowledge economy ✖
ANDREY P.GARNOV, VICTORIA YU. GARNOVA, ELENA V. ZAKHAROVA, NATALIA A. PRODANOVA, NADEZHDA P. TISHKINA
- MILA in teaching Orthodontics ✖
DR. DEEPAK NALLASWAMY.V, DR.M. SUBHA, DR SHANTA SUNDARI, DR ASHWIN MATHEW GEORGE, DR ARAVIND KUMAR, DR HARISH BABU, DR SARAVANA DINESH, DR SUMATHI FELICITA, DR RAVINDRA JAIN, DR NAVANEETHAN, DR ARVIND SIVAKUMAR, DR SURENDRALAKSHMI, DR NAVEEN KUMAR, DR REMMIYA MARY VARGHESE, DR NIVETHIGAA
- The Impact of Using Antibiotic Drugs in Pediatric Dentistry ✖
HARUN ACHMAD, SARINA, DMITRY O. BOKOV, YUNITA FEBY RAMADHANY, EVGENIY V. KIRICHENKO, ALEXANDER MARKOV
- A turbidimetric method for the quantitative determination of cyproheptadine hydrochloride in tablets using an optoelectronic detector based on the LEDs array ✖
JALAL JEBER, NAGHAN S, TURKEY

Molecular Serotyping and Genotype Variation of Escherichia coli Isolated from Urinary Tract Infections <i>AHMED KURDI, ADNAN HAMAD AUBAID</i>	*
Evaluation of Bacteriological Profiles and Antibiotic Sensitivity Patterns in Children with Urinary Tract Infections <i>KOTHAI R., PRATHIBA M., ABINAYA M.M., AKSHAY M., ALISHA GEORGE, ANISHA GEORGE, ARUL B.</i>	*
Acute and Subacute (28-Day) Toxicity Assessment of Ethanolic Extract of Seeds of Asteracantha longifolia Nees (Linn) <i>MANIVANNAN E., KOTHAI R., ARUL B.</i>	*
Ethnopharmacological Review on Cassia marginata Roxb <i>ARUL B., KOTHAI R.</i>	*
A Prospective Study of Clinical Characteristics of Chronic Kidney Diseases in a Tertiary Care Hospital, Salem <i>NIVETHA R., BALASUBRAMANIAN ARUL, RAMALINGAM KOTHAI</i>	*
Anti-Diabetic and Anti-Hyperlipidemic Evaluation of Celtis philippensis Blanco on Albino Wistar Rats <i>SUJITH THOMAS, ROHIT SARASWAT, B ARUL.</i>	*
Biosynthesis of Silveryanoparticlesa'producing"erhizopus Stolonifer and Study It Antifungal Activity on Candida Albicans Isolated from Subclinical Bovine Mastitis. <i>SUDAD JASIMMOHAMMED, SHAIMAANABHAN YASSEIN, JASIM MOHAMMED KARHOOT</i>	*
Reproductive Health Status of Irula Tribal Women in India <i>KM ASHIFA</i>	*
Investigating of Patient Complaint Handling Risk Management in Hospital <i>LUH GEDE DEWI IDAYANTI, IDA BAGUS RAKA SUARDANA, GEDE SRI DARMA</i>	*
Biochemical Biomarker Disorder Potential to Identify COVID-19 Patients in Iraq <i>ALI A H.ALBAKAA, THAER ALI HUSSEIN, WESSAM R.N. MOHSEN</i>	*
Status of some selected Trace Elements Levels and lipid profile in Ischemic heart disease patients with type 2 Diabetes Mellitus <i>, ABD ELGADIR A.ALTOUM, HANI M. MOHAMED, AHMED L. OSMAN, MARWAN ISMAIL, PRAVEEN KUMAR KANDAKURTI, ASAAD MA. BABKER</i>	*
Effect of oropharyngeal exercise on snoring and quality of sleep among obstructive sleep apnea patients <i>SATHYA PRIYA S, D. ANANDHI</i>	*
Design And Evaluation Of Medicated Dermal Patches Of Proton Pump Inhibitor-Esomeprazole <i>M.R.SHIVALINGAM, ARUL BALASUBRAMANIAN, KOTHAI RAMALINGAM</i>	*
Biochip test systems in differential diagnosis of metastatic lymph nodes. <i>SEIDALIN N.K., BENBERIN V. V., SHANAZAROV N. A., TULEUBAEVA A. A., SATAEVA ? S, TOKHPANOVA N. A., ISABEKOVA A. M.</i>	*
Research on the impact of the covid-19 pandemic on global economic processes <i>NATALIA A.PRODANOVA, DMITRY O. BOKOV, LYUDMILA V. SOTNIKOVA, LYUDMILA N. KORSHUNOVA, NATALIA O. VIKHROVA, NIKOLAY N. NIKULIN</i>	*
Awareness On 5 Axis Milling Machine Among Undergraduate Dental Students- A Survey <i>AMIT SINGH, REVATHI DURAISAMY, DHANRAJ GANAPATHY</i>	*
Knowledge And Awareness Of The Importance Of Daily Intake Of Folic Acid Among Women Of Child Bearing Age <i>AMRITHAASHRI.S., M.JEEVITHA, PREETHA.S</i>	*
Estimation Of Fluoride In Ground Water In Thoothukudi District, Tamil Nadu,India <i>LALITHA CHELLAPPA, PRADEEP KUMAR RATHINAVELU</i>	*
Assessment Of Salivary Ph In Patients With Oral Submucous Fibrosis <i>T.N.UMA MAHESWARI, DHANVANTH</i>	*
Knowledge And Awareness About Effects Of Smoking On Oral Health Among General Populaire - A Questionnaire Study <i>NIVETHITHA R., ARVINA RAJASEKAR</i>	*
Knowledge, Awareness and attitude of clinicians on incidence of undercuts in edentulous patients - a survey <i>SUHAS MANOHARAN, SURESH V</i>	*
Antimicrobial Activity Of Copper Nanoparticles Biosynthesized Using Dried Ginger <i>SABARITHA.A, M.JEEVITHA, PREETHA.S, S.RAJESHKUMAR</i>	*
Tobacco Use Among Teenagers In Chennai- A Survey Of Initiation, Prevalence, Knowledge And Attitude <i>SHEBI S, MEBIN GEORGE MATHEW</i>	*
Knowledge And Awareness On Personalised Medicine Among Dental Students <i>SHEEFAA M.I, M.JEEVITHA, PREETHA.S</i>	*
Association Of Obesity And Dental Caries Among Young Adults <i>A SHIVAPRIYA, A SHIVAPRIYA, M.JEEVITHA, S.PREETHA, M.P.BRUNDHA</i>	*
Knowledge And Awareness Of Anaphylaxis Among Dental Undergraduates <i>FAAZILA FATHIMA, DHANRAJ M GANAPATHY</i>	*
Knowledge and awareness of cleft lip or palate among women in general population <i>HEMANTH N, M.JEEVITHA</i>	*
Awareness On The Effects Of Pollutants In The Marine World Among College Students <i>INDUMATHI M, VISHNU PRIYA V, GAYATHRI R</i>	*
Comparison Of Surface Characteristics And Compressive Strength Of Tooth Coloured Self Cure Resin To Modified Self Cure Resin Using Glass Impregnated Fibres <i>JOSHINI SHANMUGAM, SURESH V</i>	*
Prevalence of gingival pigmentation patterns and its correlation with gingival phenotype and gender in an Indian population <i>KADAMBARI SRIRAM, DR.KAARTHIKEYAN G</i>	*
Knowledge And Awareness On Mouth Ulcers Among Dental Students- A Questionnaire Based Survey <i>KEERTHANA BALAJI, DHANRAJ GANAPATHY, KIRAN KUMAR PANDURANGAN, ASHOK VELAYUDHAN</i>	*
Effect Of Violent And Non Violent Video Games On Blood Pressure And Pulse Rate Among College Students <i>M.LAKSITA, M.JEEVITHA, S.PREETHA</i>	*
Knowledge And Awareness Of Dry Eye Syndrome Caused Due To Prolonged Usage Of Smartphones Among The General Public <i>MANOJ ARAVINDAN, M.JEEVITHA, PREETHA.S</i>	*
Knowledge And Awareness Of Visual Fatigue On Usage Of Devices With Retina Display And Oled Display <i>NAZ RAJ, M.JEEVITHA, PREETHA.S</i>	*

Free Radical Scavenging Activity Of Iron Nanoparticles Synthesized Using Dried Ginger <i>NAZ RAJ, M.JEEVITHA, S.RAJESHKUMAR, S.PREETHA</i>	*
Electrosurgery In Dentistry – A Review <i>NURUL BINTI, DHANRAJ GANAPATHY, REVATHI DURAISWAMY</i>	*
Morphometric Analysis Of Occipital Triangle In South Indian Dry Skulls <i>JAYADHARANI.C, DINESH PREMAVATHY</i>	
Comparison Of The Effect Of Zumba And Aerobics In Controlling Blood Pressure In The Hypertensives <i>JERUSHA PACKYANATHAN, DR.PREETHA S, DR.LAVANYA PRATHAP</i>	*
Orthodontic Treatment Need Among Children Reporting To A Private Dental Hospital <i>NURUL BINTI, DHANRAJ GANAPATHY, REVATHI DURAISAMY</i>	*
Full Mouth Rehabilitation Of A Bruxer With Severely Worn Dentition Restored With Cad/Cam Fabricated Crowns -A Case Report With 2 Years Follow Up <i>AMAN MERCHANT, DHANRAJ M GANAPATHY</i>	*
Knowledge, Attitude And Practice Among Dentists Regarding The Custom Made Cast Post And Core <i>A AHAMED, MANISH RANJAN</i>	*
Knowledge , Attitude And Practice Regarding Tooth Jewellery Among Dental Students And Dental Professionals In Chennai- A Cross Sectional Study <i>LALITHA CHELLAPPA, JAYASHRI PRABAKAR, MEIGNANA ARUMUGHAM INDIRAN, PRADEEP KUMAR.R, SRISAKTHI DORAIKANAN</i>	*
Computational Approach Towards Detection Of Functional Pathogenic Mutations In Dix-1 Gene And Its Possible Association With Tooth Morphogenesis. <i>R.BHARATHI, A.S.SMILINE GIRIJA, A.PARAMASIVAM, J.VIJAYASHREE PRIYADARSHINI</i>	*
Knowledge And Awareness Of Effects Of Fenugreek Seeds On Overall Health On General Population <i>SURYA SITARAM, M.JEEVITHA, PREETHA.S</i>	*
Audiovisual Modelling - An Efficient Method For Reducing Anxiety In Children Undergoing Digital Panoramic Radiograph <i>ABARNA JAWAHAR, G.MARAGATHAVALLI</i>	*
Research Of Biotechnological Properties Of Microorganisms-Antagonists <i>IRINA S.MILENTYEVA, LYUDMILA KASYAKINA, LYUBOV S. DYSHLYUK, NATALIA S. VELICHKOVICH, LEVA. OSTROUMOV</i>	*
Analyzing the Civil liability arising from the production of substandard drugs(in Iranian legal system and Jurisprudence) <i>, , EHSAN ALIAKBARI BABOOKANI</i>	*
Knowledge Attitude and Practice on Digital Impression in Dentistry Among the Dental Students <i>VAISHNAVI SIVAKALI SUBRAMANIAN, DHANRAJ GANAPATHY</i>	*
Mare's Milk As A Sport Nutrition <i>B.BIMBETOV, N.SHANAZAROV, A.ZHANGABYLOV, S.AITBAEVA, A.BAKYTZHANULY</i>	*
Clinical Model Machine Learning for Gait Observation Cardiovascular Disease Diagnosis <i>A.SAMPATH DAKSHINA MURTHY, T.KARTHIKEYAN, B.OMKAR LAKSHMI JAGAN</i>	*
Analysis of Mathematical Model of Support Vector Machine Techniques for early Prediction of Medical Diseases <i>, PAMULA RAJA KUMARI, POLAIAH BOJJA, ANAND GALLA, RANA PRATAP</i>	*
Deep Learning Methodology for Recognition of Emotions using Acoustic features <i>VENKATESH MANNEM, SWARNA KUCHIBHOTLA</i>	*
Hospital Management System Using Flask <i>V.TEJU, K.V.SOWMYA, C.YUVANIKA, P.SAI KUMAR, T.BALA DURGA SAI KRISHNA</i>	*
Detection of Abnormalities in COVID-19 Infected Human Respiratory System using Accelerometer with the aid of Machine Learning <i>, K.UDAY KIRAN, SHAIKH SHAKEELA, D.KALYAN, Y.MADHU, G.SAI CHAITANYA, G.EKANATH REDDY</i>	*
Synthesis, structure, Optical and transport properties of Cu- doped CeO ₂ nanoparticles <i>VENKATESWARARAO JILLEPALLI, G.SUBRAHMANYA SASTRY</i>	
Knowledge And Awareness Of Sleep Disorders Among Dental College Students <i>TRISHA.S, M.JEEVITHA, S.PREETHA</i>	*
Synthesis of Metal Oxide Nanoparticles and Formation of Nanostructured Layers on Surfaces under Ultrasonic Vibrations <i>, , YU.V.IONI</i>	*
Study of Microparticles Surface Modification by Electrokinetic Potential Measuring <i>YU.V.IONI, A.ETHIRAJ</i>	*
Effect of Ultrasonic Treatment on Properties of Aqueous Dispersions of Inorganic and Organic Particles in Presence of Water-Soluble Polymers <i>YU.V.IONI</i>	*
New Tailor-Made Polymer Stabilizers for Aqueous Dispersions of Hydrophobic Carbon Nanoparticles <i>YU.V.IONI, A.ETHIRAJ</i>	*
Woodlands as a tool for actively managing the micro-climate of agrophytocoenosis. <i>OLGA V.RULEVA, GLEB A.RULEV, ALEKSANDR S.RULEV</i>	
3-D Printing as A Tool for Applying Biotechnologies in Modern Medicine <i>HARUN ACHMAD, ARNI IRAWATY DJAIS, ELENA G.PETRENKO, MARKOV ALEXANDER, VIKHAREVA LARISA, AMINUDDIN PRAHATAMA PUTRA</i>	*
Analysis of Nutritional and Antioxidant Contents in Cuttlefish Curry (Malaysia) and Cuttlefish Gulai (Indonesia) <i>MAZARINA DEVI, BUDI WIBOWOTOMO, LAILI HIDAYATI, HASHIM FADZIL ARIFFIN</i>	
Investigating of Patient Complaint Handling Risk Management in Hospital <i>LUH GEDE DEWI IDAYANTI, IDA BAGUS RAKA SUARDANA, GEDE SRI DARMA</i>	*
Biochemical Biomarker Disorder Potential to Identify COVID-19 Patients in Iraq <i>ALI A.H.ALBAKAA, THAER ALI HUSSEIN, WESSAM R.N.MOHSEN</i>	
Differences in the Effectiveness of Warm Compresses with Water Tepid Sponge in Reducing Fever in Children: A Study Using a Quasi-Experimental Approach <i>RISKA HEDIYA PUTRI, YETTY DWI FARA, RUSMALA DEWI, KOMALASARI, RIONA SANJAYA, HAMID MUKHLIS</i>	*
Factor Analysis of Third Trimester Pregnant Women Readiness in Preparing for Childbirth: A Cross-Sectional Study <i>HAMID MUKHLIS, EVA YUNITASARI, HELLEN FEBRIYANTI, NUR ALFI FAUZIAH, MARGARETA RINJANI, RISKA HEDIYA PUTRI</i>	*
Prenatal Education of Personal Human Development in Covid-19 Pandemic <i>MUHAMMAD SADRI, RIA NORFIKA YULIANDARI, LILIANA PUSPA SARI, ANI CAHYADI, WINDA MAOLINDA</i>	*
Face and neck skin anatomical and aged-related features detection with ultrasound technique <i>OMURZAKOVA ALIYA TURATBEKOVNA, IZRANOV VLADIMIR ALEKSANDROVICH</i>	*
Effect of Plasma Discharge in Liquids on Microbiological Objects <i>S.E.DIMITRIEVA,</i>	*
Experimental Study of Water Sterilization in Flow by Acoustic Plasma Discharge <i>, S.E.DIMITRIEVA</i>	
Humanistic and Mental Health Behaviorism in Shaping the Learning Process in Covid-19 Outbreak <i>MOH MAHBUB, ACHMAD SYARIFUDIN, AKHMAD ANWAR DANI, SYAFRIZAL, RATNA DEWI</i>	*
A Village Health Center Budgeting in the Good Local Governance during Covid-19 Pandemic <i>SRI HANDINI, IKA MAYA SARI, AZRI RANUWALDY SUGMA, TUTIK YULIANI, FEBRIANTY</i>	*

- Student Mental Health Character in Covid-19 Situation**
NAZARUDDIN, JOLANDA TOMASCUW, AHMAD ZAINURI, ELY TRIASIH RAHAYU,
ALAN ALFIANSYAH PUTRA KARO KARO *
- Colonialism, Political Identity, Zending: Management of Social Problems of Health, Disease and Medical Care during the Colonial Period in Bali: The Netherlands Indies 1908-1942**
I NYOMAN WJAYA *
- Use Of Sea Cucumber Extract As An Alternative Treatment Of Inflammation By Chronic Periodontitis**
FARUN ACHMAD, I MARDIANA ADAM, TRISANTOSO REZDY ASALUI,
HULIDANI, BAYU INDRASUKMANA, AMNUDDIN PRANATAMA PUTRA *
- Mindfulness Based Cognitive Therapy to Psychiatric Resident of Udayana University: Sanglah General Hospital, Denpasar**
I PUTU DHARMA KRISNA A.N, COKKORDA BAGUS JAYA LESMANA, NI KETUT SRI DINIARI, LUH NYOMAN ALIT-ARYANI, GUSTIAYU INDAH ARDANI, NI KETUT PUTRI ARIANI, ANAK AYU SRI WAHYUNI, LELY SETYAWATI, IDA AJU KUSUMA WARDANI *
- The Influence of Leader Commitment on the Quality of Financial Statements and Its Impact on the Performance Accountability of BLUD Hospitals in West Java Province**
RATIH PUSPITASARI, WINWIN YADIATI, SRIHADI WINARNINGSIH, IRYADI *
- Application of UV Spectrophotometric Methods in the Simultaneous Analysis of Amlodipine besylate and Celecoxib**
AARTI S ZANWAR, DHANYA B SEN, MARGI K SHAH, BINAL KUBER, KRUSHITA R.PATEL, FRACHI PATEL, ASHIM K SEN, A.K SETH *
- Clinical Pharmacist involvement in Evaluation and Management of Drug Interactions at Critical Care Unit**
HEMRAJ SINGH RAJPUT, HETAL PANDYA, NIRMAL V SHAH *
- Design, Development And Characterization Of Promethazine Hcl Orodispersible Tablet**
SHAH DHIREN P, PATEL SARANGKUMAR M *
- Simultaneous Assessment of Amliskiren Hemifumarate and Valsartan from its Pharmaceutical Dosage Form by three simple UV Spectrophotometric Methods**
ASHIM K SEN, DHANYA B SEN, AARTI S ZANWAR, RAJESH A MAHESHWARI, R.BALARAMAN *
- Simultaneous Assessment of Alogliptin Benzoste and Pioglitazone Hydrochloride in Combined Tablet Dosage Form by UV Spectrophotometric Methods**
DHANYA B.SEN, ASHIM K SEN, R. DALARAMAN, RAJESH A. MAHESHWARI, AARTI S.ZANWAR *
- Prediction of the potency of active compounds in pasak bumi root as the treatment for prostate cancer through phosphatase and tensin homolog (PTEN) pathway**
EKA YUDHA RAHMAN, KUSWORINI KUSWORINI, MULYOMADI ALI, BASUKI BAMBANG PURNOMO, MA KANIA, HULIDANI *
- Periodontal Diseases in Elderly in Indonesia and The Risk Factors**
SUSANTO HENRY-SETYAWAN, EEF HOGERVORST, TRIBUDI W. RAHARDJO, SUHARYO HADISAPUTRO, R.R.J.DJOKOMOLJANTO *
- Unmet Need Incidence within Family Planning Program: A Basic Policy to Decrease Population Fertility in Central Java Province**
SRI WINARNI, MARTINI MARTINI, NAJIB *
- Consumption of Ginger Reduce Menstrual Pain In Young Women**
DAINTY MATERNITY, RATNA DEWI PUTRI, YULUSTIANA EVAYANTI, VIDA WIRA UTAMI, AGUSTINA RENANINGSIH, YATSUKO PURNAMA *
- The Effect of Tomato Extract Supplementation to interleukin-17 Serum Level in Women with Melasma**
LIZA AFRILIANA, LISYANI BUDI PRADIGDA, KIS DJAMATUN *
- An Ethno botanical and Pharmacological Review on Phylla nodiflora**
GHANSHYAM R. PARMAR, SUNIL B. BAILE, KUSHAL GOHEL, ASHISH SHAH, SHIVKANT PATEL, AVINASH K. SETH *
- Risk Typology For Peer-To-Peer Lending In A Financial Architecture Transformed By Digitalization And The Epidemiological Situation**
MAKSIKOVA TATIANA PAVLOVNA, ZHDANOVA OLGA ALEKSANDROVNA, BONDARENKO TATIANA GRIGORIEVNA *
- Prolongation of QTc interval associated with Drugs Used in Management of COVID 19**
MUZAKKIR AMIR, IRAWATI DJAHARUDDIN, FARUN ACHMAD, MIRZA SYAFARYUNI, L TRI *
- Effects of Sulforaphane in brain ischemic reperfusion injury in rats**
MUNTADHER HAMEED THAWANI, AHMED R. ABU RAGHIF, NAJAH R HADI *
- Impact of Leptin Hormone on Cardiac Function in a Sample of Iraqi Population with cardiovascular disease**
BASIM ABD ALI SAEED, HUSSEIN A. ALSALKHI, SAMET ELIAS KASIM, AHMED N. RGEEB, QASIM MOHAMMED TAHER *
- The role of ultrasound in the diagnosis of non-traumatic acute abdomen**
SAMER MAKKI MOHAMED AL-HAKKAK, SAAD AB-RAZQ MUDAS, ALAA ABOOD AL-WADEES *
- Spirometric Changes in Patients with Angiotensin Converting Enzyme Inhibitors (ACEI) Induced Cough**
FALAH ABDULHASAN DELI, SAMET ELIAS KASIM, SAMIR T. ABEID, KADIM EDAN AFL DK, IMAN JABBAR KADHIM *
- Fermentation, optimization and in vitro evaluation of lovastatin drug loaded solid lipid nanoparticles**
GANMIMANI VEERABHADRA RAO, GADELA VENKATA RADHA, M. KRISHNAJI RAO, S BRITO RAJ, K BHASKAR REDDY *
- Covid-19 Pandemic and Application of Disaster Management Act, 2005: Promises and Pitfalls**
M.Z.M NOIMAN, REHANA PARVEEN *
- Study of some immunological markers (IL-8 and TGF-β1) and its relation with Pneumocystis jirovecii infections**
DHAYA AZEEZ, ADNAN H. ALBAID, GHADA BALOMASHI *
- Clinical And Epidemiological Characteristics Of Patients With Covid-19**
DELOKULOVA R, NYOZOV G.E *
- Ways Of Optimization Of Comprehensive Treatment Of Purulent Diseases In Patients With Diabetes Mellitus**
KHUSANBOY MUSASHAYKHOV, KAMIL MIRZAEV, RASULJON ABULLAEV, DILSHODJON AZIZOV, SANJARBEK UMURZAKOV, BAKHTIYORJON MATKARIYOV *
- Research of economic aspects of national projects' allowance of cardiac surgery in order to reduce heart failure in children**
TATIANA GRIGORIEVNA BONDARENKO, NATALIA ALEKSEEVNA PRODANOVA *
- Surgical management of congenital hiatal hernia: A retrospective cohort study, single-center experience**
LAITH FATHI F. SHARBA, SAMER MAKKI MOHAMED AL-HAKKAK, FIRAS SHAKER MAHMOUD AL-TAHAM, JALAL JAAFAR ABDUL HUSSEIN *
- Analytical Method Development and Validating the Estimation of Pregabalin in bulk and its Formulation using RP-HPLC**
SIRENDRA SHRIVASTAVA, SAI RAJESH KOLLAPUDI, DINAKAR A *
- Effective Communication Models to Improve the Animal Cooperatives Performance in Bali-Indonesia**
GEDE SUARTA, NYOMAN SUPARTA, I GST NYM GDE BIDURA, BUDI RAHAYU TANAMA PUTRI *
- Colony-stimulating factor 1 (rs2050462) and Cluster of differentiation 44 (rs13347) Polymorphism, Their Association With Risk of Kidney stone in Iraqi Populations.**
NANAL M KADHIM, HENADI N. MOHAMED *
- Title: MRI to examine cardiovascular toxicities of cancer treatment**
MOHAMMED ALSHEHRI, LEWIS MORGAN ADAY *
- Title: Effect of COVID-19 on the Interventional Radiology: A Statistical Analysis**
FAHAD MOHAMMED ALSHEHRI, LEWIS MORGAN ADAY, M.D. *
- Association of vitamin D and dental caries in children in Basra**
HIYAM SALAH AHMED, GHASSAN S.AHMED, ZAINAB ABDULKAREEM MAKTUOF *
- A Survey Study Of Lecturer's Performance About Work From Home During The Pandemic Of Covid-19**
MULYANINGSIH, DETY MULYANTI, YONY DJOGO, RESTY ISMAWANTI, AGUS IMAN MULYANTO, SUHARTONO *
- A Case Of Teen Procureses Empowerment Model through Distance Learning Education During The Pandemic Of Covid-19**
SUHARTONO, CIQH MURNASIH, FARIDA YULMITY, ELLY RESLY RACHLAN, DETY MULYANTI *

- In Silico Identification of Potential Inhibitors Against Sars-Cov-2 Protease**
VAJIHEH ESKANDARI ✱
- Development of The Stable, Reliable, Fast and Simple RP-HPLC Analytical Method for Quantifying Diphenhydramine-HCl (DPH) In Pharmaceuticals**
H.N.K.AL-SALMAN, ERFAN A.S.ALASSADI, RAJAA HUSSEIN FAYADH, HUSSEIN H.HUSSEIN, EKHLAS QANBER JASIM ✱
- Physiochemical Effects of Nano Particles from Welding Fume on Rumaila Oil Field Welders by Using FESEM- EDS**
RAFID A.DOOLAB
- Implementation of Blended Learning Based-Model in English For Specific Purposes for The Islamic University: A Case Of UNISNU, Jepara, Indonesia**
HARYANTO, PURWANTO, GIYOTO ✱
- Evaluation Model of Learning in Inclusive Settings for Students with Disability in INTIS Elementary School Yogyakarta**
ALEX YUSRON AL MUFTI, NAHIYAH JAIDI FARAZ, MUKMINAN, ANIS FITRIYAH, SUBAIDI
- The Reconstruction of Marriage Law in Classic Fiqh Perspective: The Case of Unregistered Marriage in Indonesia**
MUNASIR, SA'DULLAH ASSA'IDI ✱
- Implementation of Digital Curriculum at Madrasa Aliyah Balekambang Jepara**
ALIAS'AD, PURWANTO, YUSUF ROHMADI ✱
- Exploring Marketing Performance Based on Agro Value Co-Creation**
SAMSUL ARIFIN, ALI, NURUL KOMARIYATIN ✱
- Same Verses Detection Application: An Innovative Media For Memorizing Qur'an In Tahfidz Pesantren**
AZZAH NOR LAILA, DARNOTO, ANA RAHMAWATI, HERMAN SURJONO, MUHTADI ✱
- The Effect of Teacher Motivation and Teacher Work Discipline Towards Costs of Private School Heads in Karanganyar Indonesia**
SUTARMAN, SUTARNO JOYOATMOJO, NUNUK SURYANI, ASROWI ✱
- The Information Technology Based-Regional Government Innovation for Integrated Civil Servant Management of East Java Provincial Office Indonesia**
NURKHOLIS, SOESILO ZAUHAR, MR.KHAIRUL MULUK, ENDAH SETYOWATI ✱
- Improving Marketing Performance Through Exploiting Green Product Competencies**
NURUL KOMARIYATIN, SAMSUL ARIFIN, ALI ✱
- Textile Industrial Liquid Treatment with Activated Carbon**
DARSINI, AGUS PURWANTO
- Empowering Mental Attitude And Mindset Of Business In SMES Through Sales Tournament For Students Of Sragen School Business, Indonesia**
JOKO SURYONO, MAHENDRA WIJAYA, HERU IRIANTO, MOHAMAD HARISUDIN ✱
- Exploring the Implementation of Human Resources Management for Teachers at Madrassas in Jepara Indonesia**
SITI ROMLAH, HARYANTO, MUNASIR ✱
- The Student Perceptions on The Online English Teaching in Pandemic Era: Voice from UNISNU Jepara, Indonesia**
... DWI ERLIN EFFENDI ✱
- Giving Students Freedom to Learn Through the Implementation of Lesson Study**
HERRY AGUS SUSANTO, MEIDAWATI SUSWANDARI, DEWI KUSUMANINGSIH, SRI MULYATI
- Effect of Some Bioactive Flavonoids on Lysosomal**
QUTAIBA A.QASIM ✱
- Role of Flavonoid Rich Fraction of Butea monosperma Linn. In Memory Enhancing Activity**
GHASSAN SALAH AHMED, MAZIN A.A.NAJM, AHMED S.ABDUL JABBAR, FALAH HASSAN SHARI ✱
- Spectral and Thermodynamic Study of Amoxicillin Drug with Surfactant SLS In Presence of Silver Nanoparticles**
LIQAA HUSSEIN ALWAN, HIND AHMED MAHMOUD
- Efficacy of biological agents in stricturing Crohn's disease: A retrospective cohort study**
MAHMOUD ALCHLAHAWI, SRIHARAN SELVARATNAM, SUDARSHAN PARAMSOTHY, RUPERT LEONG ✱
- Analytical study of fixation failure in adult limb fracture: Prospective study in single center institution**
... MUSTAFA WALEED YAHYA ✱
- Dental fear and their effect on their behaviour during the dental treatment among children.**
KIRTANA GOPALASAMY, DEEPA GURUNATHAN, A.C.KANTHASWAMY, DR.VEERALE PANCHAL, DR.LAKSHMI.T
- Synthesis Of Phytofunctionalize Zinc-Oxide Nanoparticles From Acacia Extract**
KIRUTHIKA PATTURAJA, DR.LAKSHMI.T
- Efficacy of Commercially Available Oral Antimicrobial and Topical Anesthetic Gels against Streptococcus mutans**
SHABANA BOWSIYA, DEEPA GURUNATHAN, MADHU SUDHAN VASANTHARAJAN, MURALIDHARAN, DR.LAKSHMI.T
- Assessment of Oxidative stress and Antioxidant Level in Oral Submucous Fibrosis Patients**
VAISHNAVI SIVAKALI SUBRAMANIAN, ROYANITHA, T.LAKSHMI
- Effect of Green Tea (Camellia Sinensis) Extract Administration on Sperm Quality of Mice (Mus Musculus) Exposed To 2,3,7,8-Tetrachlorodibenzo-P-Dioxin**
... MEY VANDA PUSPARINA SAJIDA, EPY MUHAMMAD LUQMAN, INDAH NORMA TRIANA, WIDJIATI WIDJIATI
- The Effect of Carbofuran Exposure on Mice During Lactation Period Against on Histopathology Description of The Heart of Mice (Mus Musculus) Offspring**
AISYAH ASRIANTI1, WIDJIATI, DJOKO LEGOWO, LILIK MASLACHAH, ARIMBI, EPY MUHAMMAD LUQMAN
- Antibacterial And Antifungal Activity Of A Plant Substance Of The Genus Calligonum**
BAIDUYSENOVA ALIYA UTESHOVNA, BEKENOVA AYNUR ORDABAEVNA, BEKNIYAZOVA GULIMSHAT ALPYSBAEVNA, SUTIMBEKOVA NAZGUL SEITBEKOVNA, DUISEBEKOVA GULBANU PRALYEVNA
- Induction of Collagen Formation Through the Utilize of Microneedle in the Treatment of Various Types of Scars in Aesthetic Medicine Field**
AHMAD AB YOSEF KINANI
- Assessment of sheep ova viability and morphology vitrified using new cryoprotectant solutions**
MSC. MUDHAFAR ABDULHUSSEIN M, PROF. DR. MUHAMMAD-BAQIR M-R FAKHRILDIN, MSC. AHMED HUSSEIN
- Diagnostic Accuracy of Proclacitonin Compared to C-Reactive Protien in Recognizing Bacteremia Determined by Blood Culture**
KHALID KHALIL ALAARAJI, RIADH A.HENWA, DHUFFER SHEHAB QASIM
- Mycodiesel Production from some Isolates of Oleaginous Fungi Isolated from Oil-Rich Soils in Basrah**
... INAAM MAHMOOD ALRUBAYAE, KADHIM FADHIL KADHIMI
- Managers' Strategic Directions To The Downtrend: A Case Of Selected Gulf-Kazakhstan Oil And Gas Industry**
ROMMEL P. SERGIO, PHD, MARIA JADE CATALAN-OPULENCIA, PHD, AKINOLA O FADAHUNSI, PHD

Factors Influencing Smart City Development in Khon Kaen, Thailand

AWUTH RUENPAKPOJ, SUKANIYA AIM-IM-THAM, SUTTIPONG HOXSUWAN,
NORRAPAT NOLUBLAO, PONGSATEAN LUENGALONGKOT, CHULA
CHARERNVONG, DOMTHARADOL ANANTASAN, SUPHATTHANI
KHOONSINGSAKULI, SUCHIN CHARNISUNGNERN, AKKAKORN CHAIYAPONG,
KORAKOD TONGKACHOK, THONGPHON PROMSAKA NA SAKOLNAKORN

Factors Associated With Gait, Balance And Strength Abnormalities Among Indonesian Elderly

INDRY HARSARI SLISILOWATI, SUSIANA NUGRAHA, SABARINAH, DONARDO
PRAYOGO-HASIHOLAN, SUPA PENGPID, KARL PELTZER

The Influence Of Disputants Perceptions On The Process And Outcome Of Negotiation

DAN-MALLAM YAKUBU ABIGAIL, DULZALANI BIN EDEN, SITI FATEHA BINTI
DOLHADI, ALIYU MUSTAPHA IDOWU

The Influence Of Disputants Perceptions On The Process And Outcome Of Negotiation

DAN-MALLAM YAKUBU ABIGAIL, DULZALANI BIN EDEN, SITI FATEHA BINTI
DOLHADI, ALIYU MUSTAPHA IDOWU

Organizational development: Problems, Challenges, and Characteristics of Success

THONGPHON PROMSAKA NA SAKOLNAKORN, WANGHAIDHAMMASACCAKARN,
SUTTIPONG HOXSUWAN, PONGSATEAN LUENGALONGKOT, CHULA
CHARERNVONG, SUCHIN CHARNISUNGNERN, CHUMPOL SUWACHIAN, DEMNARONG
THAIMA, KORAKOD TONGKACHOK

Exploring The Students' Anger Control In Al-Qur'an And The Psychology Of Islamic Education(A Case Study On Private Higher Education Students At Jepara Indonesia)

MUFID, SISWANTO MASRURI, MUHAMMAD AZHAR

Evaluation of Antioxidant and Anti-inflammatory activities of Periploca aphylla

NEELAM SHERWANI, SARDAR A. FAROOQ, KHALID AL MOQBALI

Effectiveness of Mindfulness Meditation Program on Perceived Stress Reduction among New University StudentsBy

MOHAMMAD BANI YOUNIS, RN, PHD, AHMAD B AL-RAWASHDEH, RN, PHD,
YOUSEF RUBBAI, RN, MSN, AHMAD M. AL-SAYEH - RN, MSN, AHLAM JARADAT - RN,
MSN

Returning Migrant Worker: Issues And Protection During The Covid-19 Pandemic In Indonesia

DEDE YUSUF MACAN EFFENDI, ASEP SUMARYANA, ARI BAINUS, RAMADHAN
FANCASILAWAN

Effect of Ayurvedic Management In Covid-19 Pneumonia: A Series of Two Cases

, DR HEMANT D TOSHIKHANE, DR SHAILESH V DESHPANDE, DR HARISH
DAGA *

Ayurvedic Management of Vicharchika – Single Case Study

, DR HARISH DAGA, DR HEMANT TOSHIKHANE, DR KIRAN THAKUR, DR VAIDEHI
RAOLE

Management of Renal Calculus- Single Case Study

, DR HARISH DAGA, DR HEMANT TOSHIKHANE, DR RUSHIKESH KANGAD, *

The Effect of Problem Solving Therapy on Reducing Negative Emotions in Elderly with Prolonged Grief Disorder (PGD)

HAMID ZOLFAGHARI, MOHAMMAD EBRAHIM HOKIMBAEJI, FARZANEH
KHODABANDEH, MAHDI KARIMI, MAHMOOD BEHNAMINI, AREFEH ALISHAHI

SARS-Cov-2 Genomic Variations Among Isolates from Jordanian Patients

WAJDI J. AL-AWAIDA, HAMZEH J. AL-AMEER, MONAMED SAMY ABOUSENNA,
REFAT NIMER, HAYAT O. AL-ASAFEH, SEVERIN ALEXANDER EVGENIEVICH, *

Cystatin C Assessment In Pediatric β -Thalassemia Major And Intermedia: A Marker Of Subclinical Cardiovascular Dysfunction

MOHAMED BESHIR, DIANA HANNA, MAGLAA KHALIFA, AHMED ELHEWALA, *

An Effective Cascaded Approach for EEG Artifacts Elimination

, DR. SANTOSH KUMAR VISHWAKARMA, DR. PRAKASH CHANDRA SHARMA, *

Detection of sleep apnea through heart rate signal using Convolutional Neural Network

, DR. SANTOSH KUMAR VISHWAKARMA, DR. SAURASH SINGH VERMA, *

A Pilot Survey Study of Menstrual Cycle Inapparently Healthy Females of Different Body Mass Index

, DR MANJEET KAUR, DR NEHA GADGIL

Application Of Dixon Test For Rejection Of Outliers In Calibration Curve

, ALANKAR SHRIVASTAVA, ABHISHEK SHARMA, DEEPAK GUPTA

A Renal Calculus Non-Surgical Ayurvedic Treatment – A Case Study

, DR CHANDRABHAN SINGH GURJAR, DR HEMANT D TOSHIKHANE, DR *

Effect of Glycyrrhiza Glabra as Motility Stimulant on Sperm Function for Patients with Varicocele and Diabetes Before and After In-Vitro Preparation for ICSI

, ETIHAN HASHEM LIHAMMED, DR AMOURA M ABU-EL-NAGA, DR SAAD
SALIH ALDUJAILY *

Formulation and Characterization of Tyrosine Kinase Inhibitor Loaded NLCs: Application of 23 Full Factorial Design Approach

DHAIRYSHEEL GHADGE, NAMDEO JADHAV, *

Histopathological spectrum of benign and malignant lesions of oral cavity in a patient attending Coastal tertiary care hospital – A Retrospective study

, PRASANTHI CHERUKURI, VASUNDARA GARGAS, PENTAKOTA KIRANMAVI *

Differences of Social Sciences Learning Results Using Creative Problem Solving Learning Model Using Problem Based Learning Learning Model(Survey of Public Elementary School Students in Bengkulu City)

SUHIRMAN, NURLAILI, NELSON, AHMAD SYARIFIN, WINDA, *

The Effect of Emotional Intelligence and Learning Motivation on Student Achievement Levels(Survey in Junior High School Students in Bengkulu Province Years 2019)

SUHIRMAN, NURLAILI, ZULKARNAIN S, MUHAMMAD TAQIYUDDIN, AHMAD
SYARIFIN *

Exploitation of Macro-bend Induced Loss Mechanism in the Design and Construction of an Optical Fiber Glass Refractometer Operating at Multiple Wavelengths

S. SRINIVASULLU, DR. S. VENKATESWARARAO, *

Role of Colon Transit Study in Refractory Constipation

PENTAKOTA KIRANMAVI, YELLAPU RADHA KRISHNA, PRASANTHI
CHERUKURI, SUMERA SALONI SOUDAGAR, *

Methanolysis and Hydrolysis Studies of Bimetallic Systems: Ba(Ti(OPri)8) and Ba(Ti2(OPri)9)2

, SARASWATI KUMARI OLA, VEENA GHAYAL, JAYA RAI

Evaluation of Hepatoprotective activity of Ochra obtusata extract on Paracetamol Induced Hepatotoxicity in Rats

RAVI KUMAR VAKKALAGADDA, SRINIVAS LANKALAPALLI, *

Study the Effect of Non-Pharmaceutical Approach on Traumatic Nipple for Lactating Mothers

, RANDA MOHAMED ABOBAKER, HAJIR A. AL-SAIHATI, MERVAT AMIN SAYED, *

Antioxidant, anti-tyrosinase, anti-elastase and cytotoxicity of ethanol extract from Cnidioscolus chaymansa (Mc Vaugh) leaf extract

KANITTADA THONGKAO, NARIN KAKATUM, PIPORN THONGMUANG, YUTTANA
SUDJAROEN

Effect of BAP on in vitro propagation of Taxus contorta – an endangered multipurpose tree of the Western Himalayas

SUSHANT SHARMA, YASHASWI SINGH, MAHIMA, AMBIKA, SEEMA SINGH, AJAY THAKUR

Validated Method Development For The Simultaneous Estimation Of Empagliflozin, Linagliptin, And Metformin In Marketed Formulation Using Uv Vis Spectrophotometer ✖

SHRIKRISHNA BAOJAR, RAJENDRA PATIL, ADITYA NATH PANDEY

Total Phenolic Content, Flavonoid Content And Antioxidant Potential Of Leaves And Stems Of Dioscorea Floribunda

ATUL SHANKARRAO BHUJBAL, RAJENDRA PATIL, ADITYA NATH PANDEY

Simultaneous spectrophotometric evaluation in pharmaceutical dosage type of trimethoprim and albendazole.

KHUSHBOO GUPTA

Immunomodulatory effects of potent bioactive compounds derived from plants

NIRALI BUDHBHATTI, DILENDRA CHANDRAKER

Lichen as potential armamentarium against the SARS CoV-2 (COVID-19)

DEVVRET VERMA, HIMANSHU RAI, SUGAM GUPTA, RAKESH SRIVASTAVA, KUMUD PANT, RAJAN K GUPTA, BHASKER PANT, ASHISH THAPLIYAL, SHREESH GUPTA, D.K. UPRETI

Design, Synthesis And Biological Evaluation Of Some Azole Derivatives

SWEETI ASHOK SHEWALE, P.J. SHIROTE, NEETA VASANT WADD

Identification Of Quercetin Of Rhizomes Of Kaempferia Galangai, Kaempferia Parviflora And Kaempferia Pulchra By Hplc

SUBHASH CHANDRA MISHRA, NEERAJ SHARMA

Hplc Method Development And Validation For The Estimation Of Deflazacort In Nanosponges Formulations

SARVESH MISHRA, NEERAJ SHARMA AND SHAILESH JAIN

The Anti-Tubercular Activity Assessment Of Extracts Of Medicinal Plants: Traditionally Used By Tribes Of India

DHARMENDRA KUMAR KUSHWAHA, RAJSHREE PANDEY, RAVISHANKAR KUSHWAHA

Formulation and In-vitro Evaluation of Floating Drug Delivery System for Piretanide

D. VIJAY KUMAR, RAKESH KUMAR JAT, GAMPA VIJAY KUMAR

Analytical Method Development And Validation Of Perindopril In Bio Relevant Dissolution Medium Using Rp-Hplc

MERUGU MADHUSUDHAN, DR. RAKESH KUMAR JAT, DR. GAMPA VIJAY KUMAR

The Impact of Myocardial Infarction in Hypertension and Diabetes Mellitus Patients with Other Risk Factors

RAVI CHANDER THATIPELLI, SHIREESHA BUSSARI, HAREESH DARA

3D Modeling and Static Analysis of Telescopic Shock Absorber Unit

MOPATI SOMA SUNDARA VENKATA HANUMAN, T.SESHAIAH, L.VENKATESHWARALU, V.S.J.C.PRASAD

Design and Development of nanoparticle based antidiabetic formulation of Aegle marmelos Plant

MRUNAL K. SHIRSAT, VAIBHAV C. SHILIMKAR

A Promising Challenges In Sublingual Drug Delivery System

VIKRANT NIKAM, GAURI SHAHARKAR, VIVEKANAND KASHID, POOJA CHAVAN, JYOTI KHAPARE

Simultaneous estimation of Gliclazide and Rosiglitazone Maleate in pharmaceutical dosage form by absorption correction method.

DARPINI PATEL, BHAVIK PATEL, SANTOSH KUMAR VAIDYA, JALPA PATEL

Model Dependent and Independent Approaches to compare In vitro Release Profiles of hydrophilic polymer Based Matrix Tablets.

JALPA R. PATEL, DR. MAHAVIR CHHAJED, DARPINI S. PATEL, DR. BHAVIKA PATEL, SANTOSH KUMAR VAIDYA

Research Article

The Effect of Kebar Grass (*Biophytum petersianum* Klotzsch) Extract on the Number of Leydig Cells of Mice (*Mus Musculus*) Treated with TCDD

MILLA NURSADIDA¹, HANI PLUMERASTUTI², YENI DHAMAYANTI³, WIDJIATI⁴, EPY MUHAMMAD LUQMAN^{5*}

^{1,3,4,5}Departement of Anatomy Veteriner, Faculty of Veterinary Medicine Universitas Airlangga, Jalan Mulyorejo, Surabaya-60115 Indonesia

²Departement of Pathology Veteriner, Faculty of Veterinary Medicine Universitas Airlangga, Jalan Mulyorejo, Surabaya-60115 Indonesia

*Corresponding Author

Email ID: epy-m-l@fkh.unair.ac.id

Received: 05.04.20, Revised: 05.05.20, Accepted: 05.06.20

ABSTRACT

This study aimed to examine the effect of kebar grass extract on the Leydig cells number of mice to exposed 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD). These animals were divided into five groups. Twenty five BALB/C mice were used with five groups: Negative Control (C-), Positive Control (C+) with TCDD 7µg/kgBW IP, and treatment groups that treated with TCDD 7µg/kgBW IP and Kebar Grass orally for 53 days were presented T1 0,045mg/gBW/day, T2 0,080mg/gBW/day, and T3 0,135mg/gBW/day. Results showed that TCDD decreased the Leydig cells number, while kebar grass extract was increase the number of Leydig cells exposed by TCCD significantly (p<0,05). But the increase in the number of Leydig cells had not yet reached the normal number of Leydig cells.

Keywords: Kebar Grass, *Biophytumpetersianum* Klotzsch, Leydig cells, TCDD, mice

INTRODUCTION

The environmental contaminant, such as industrial processes like incineration of medical wastes, chlorine bleaching of paper and pulp and manufacture of pesticides can be called endocrine-disrupting by Dioxin [1]. The dioxin 2,3,7,8-tetrachlorodibenzo-dioxin (TCDD) has been intensively studied and is known to be the most toxic compound among these compounds [2]. Those studies demonstrated that TCDD altered the process of testicular steroidogenesis and caused a reduction of Leydig cell volume and number [3].

TCDD has been reported to induce superoxide anion, lipid peroxidation and DNA damage, Induction of oxidative stress upon exposure to TCDD are considered to be an important mechanism for the toxic effects of TCDD [4]. TCDD increases reactive oxygen species (ROS) in endothelial cells by the induction of CYP1A1 [5]. TCDD toxicity is very dangerous because it causes oxidative stress, therefore we need a compound that can break TCDD toxicity such as antioxidant compounds [6]. Antioxidants defend against excessive ROS levels through enzymatic (superoxide dismutase, catalases, and peroxidases) and non-enzymatic (vitamins, steroids etc.) mechanisms [7].

Antioxidant compounds are found in various plants, one of which is Kebar Grass (*Biophytum petersianum* K) which has a role in protecting against free radical attacks. The usage of kebar grass as a fertile fertilizer had been carried out in Papua Indonesia for a long time [8]. Kebar grass contains three types of chemical compounds flavonoids, saponins, and tannins that have the potential to give effect to the process of spermatogenesis. The administration of 5% kebar grass infusion could significant increase spermatogenesis activity [9]. The active compounds of kebar grass act as antioxidants by inhibiting the transcription of CYP1A1 cytosolic enzymes and steroid dehydrogenase genes through inhibition of AhR, as well as reducing the competitive binding of TCDD to AhR [10].

Research on kebar grass extract so far is not widely known, therefore the researchers wanted to observe the effect of kebar grass extract to the Leydig cell number in mice exposed to 2,3,7,8-tetrachlorodibenzo-p-dioxin to observe potential kebar grass in counteracting the toxic effect of 2,3,7,8-tetrachlorodibenzo-p-dioxin. In the present study, we have sought to investigate whether the effect of Kebar grass extract in multiple dosages can increase the number of Leydig cells exposed by 2,3,7,8-tetrachlorodibenzo-p-dioxin.

MATERIALS AND METHODS

This research was conducted at the Laboratory of Experimental Animal Faculty Veterinary Medicine Universitas Airlangga, the preparation of the histopathology was conducted at the Department of Pathology Faculty Veterinary Medicine of Universitas Airlangga. Ethical clearance was obtained from the Faculty Veterinary Medicine Universitas Airlangga.

Materials

This research used 25 male mice (*Mus musculus*) 12 weeks old with the body weights between 25-35 grams obtained from Veterinaria Farma Surabaya. Apparatus that was required, 5 groups contain 5 mice, food and drink, per oral needle, 1 cc syringe, scalpel, a petri dish, surgical scissors, and microscope. Materials that have been used were 2,3,7,8-tetrachlorodibenzo-p-dioxin, Kebar Grass extract, distilled water, CMCNa 0.5%, and formalin. The dosage of the 2,3,7,8-tetrachlorodibenzo-p-dioxin which has been used for the rats was 50 µg/KgBW. Then it was converted to the dosage of mice $50 \times 0.14 = 7\mu\text{g/KgBW}$. The dosage of Kebar Grass extract was by using three different dosage of 0,045 mg/gBW/day 0,08 mg/gBW/day, and 0,135 mg/gBW/day [9].

Methods

Experimental animals were obtained using simple random sampling procedure. There are five treatment groups (5 mice each group): C (-) was treated with a placebo, C (+) was exposed by TCCD 7µg/KgBW single dose intraperitoneal injection. T (1) group was exposed by TCCD

7µg/KgBW single dose intraperitoneal injection and treated by Kebar grass extract was given orally at a dosage 0,045 mg/kg BW/day. T (2) was exposed by TCCD 7µg/KgBW single dose intraperitoneal injection and treated by kebar grass extract was given orally at a dosage 0,080 mg/kg BW/day. T (3) was exposed by TCCD 7µg/KgBW single dose intraperitoneal injection and treated by Kebar grass extract was given orally at a dosage 0,135 mg/kg BW/day. The treatment were conducted for 53 days consecutively. The testicular examination was conducted by hematoxylin and eosin (HE) staining (Hematoxylin Staining for Millicell®-HA, Merck, Germany) and observed from five different fields by using a light microscope with 400x magnification (Olympus® CX-41). Data analysis was done by using the ANOVA test. Then continued with the Duncan test to determine differences in each group. Data were analyzed by using the Statistical Analysis Software program (SPSS) version 22.

RESULTS

Table 1. showed a decrease in the mean of Leydig cells number in the positive control group (C+) compared to negative control (C-). Furthermore, in groups T1, T2, and T3 there was a gradual increase in Leydig cells number. The increase in Leydig cells number that occurred in all treatment groups reached the highest size in the T3 group, which was 24.24. The result of the effect Kebar grass extract on the number of Leydig cells exposed to TTDC by calculating the normal Leydig cells in the mice's testes listed in Table 1.

Table 1: Amount of Leydig cells in each group.

Groups		Amount of Leydig cells (Mean ± SD)
C (-)	Placebo	43,04 ^e ± 3.36
C (+)	exposed TCCD 7µg/KgBw single dose intaperitoneal injection	4,08 ^a ± 0.78
T (1)	TCCD 7µg/KgBw single dose intaperitoneal injection and Kebar grass extract at a dosage 0,045 mg/gBw/day	11,8 ^b ± 2.31
T (2)	TCCD 7µg/KgBw single dose intaperitoneal injection and Kebar grass extract at a dosage 0,080 mg/gBw/day	16,2 ^c ± 4.44
T (3)	TCCD 7µg/KgBw single dose intaperitoneal injection and Kebar grass extract at a dosage 0,135mg/gBw/day	24,24 ^d ± 13.83

Description: Different superscript in the same column indicate significant differences (P<0.05).

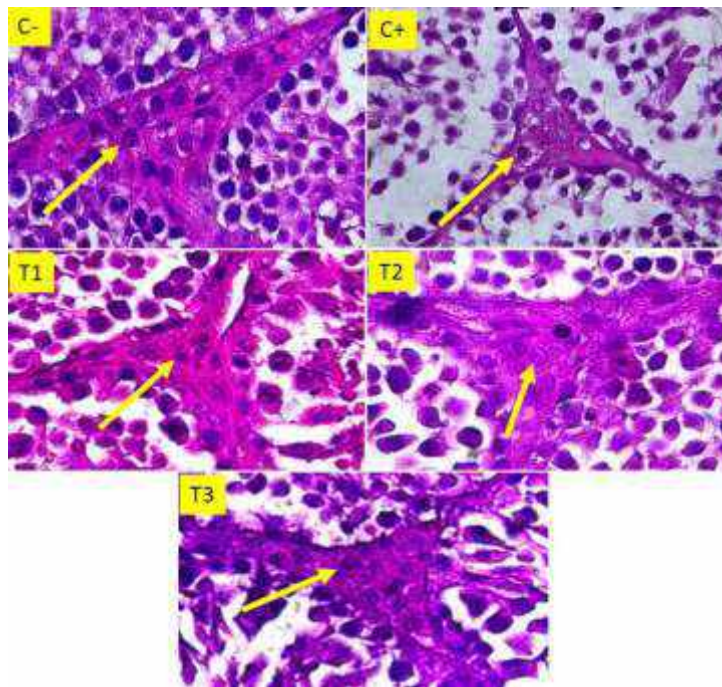


Fig.1: Overview of testicular microscopic image (Hematoxylin Eosin staining; magnification of 400x; Olympus® CX-41). Image of group C (-) indicates a normal Leydig cells. Image of group C (+) which induced by TCDD showed most decrease of number Leydig cells. Image of group T (1) showed improvement of Leydig cells. Image of group T (2) many cells showed normal shape of Leydig cells still look some cells died. Image of group T (3) showed the most normal cells between another treatment groups.

DISCUSSION

In group C (-), there were more normal Leydig cells than Leydig cells which occurred necrosis. Contrary to the C (+) group exposed to TCDD, the normal number of Leydig cells experienced a significant decrease. On histopathological features of Leydig cells exposed to TCDD given various doses of kebar grass extract increased significantly compared to the C (+) group. C(+) group that exposed by TCDD $7\mu/\text{KgBW}$ single dose intraperitoneal injection proved that TCDD exposure affected the number of Leydig cells due to highly toxicity (Figure 1). The results of the research in this group similar with [3] that hazardous chemicals can cause antiandrogenic or estrogenic disorders. Antiandrogenic disorders can cause infertility by suppressing androgen production in Leydig cells, reduce the number of Leydig cells, induce Leydig cell apoptosis, or increase aryl hydrocarbon (AhR) to bind to TCDD thereby blocking androgen activity [11].

TCDD ligands, Arylhydrocabon Receptor (AhR), and Aryl Hydrocarbon Receptor Nuclear Translocator (ARNT) will bind to certain DNA, namely Dioxin-Responsive Enhancer Elements (DRE), the bond will change the expression of various genes including cytochrome P450 in the nucleus [10]. Increased cytochrome P450 can affected on Leydig cells through a receptor called Androgen Receptor (AR) which plays a role in the

maturation of the steroidogenesis pathway [12]. Cytochrome P450 bond with Androgen Receptor (AR) is known to increase Reactive Oxygen Species (ROS) production, so that it can trigger an increase in superoxide radicals which could cause membrane lipid peroxidase [13]. However, an increase in cytochrome P450 results in the formation of cytochrome P450 bonds with AR which could reduce the action of AR on Leydig cells and increase ROS formation in cells so that death occurs in Leydig cells [14].

Furthermore, in groups T1, T2, and T3 there was a gradual increase in Leydig cells number. The treatment group that exposed by TCDD single dose $7\mu/\text{KgBW}$ intraperitoneal injection and treated by kebar grass extract at dosage of $0.135 \text{ mg/kg BW/day}$ had the most significant number of normal Leydig cells was 24.24 when compared with T (1) and T (2) that treated with kebar grass extract $0,045 \text{ mg/gBw/day}$ and $0,080 \text{ mg/gBw/day}$. This shows that kebar grass extract can increase the number of Leydig cells that exposed by TCDD.

Kebar grass (*Biophytum petersianum* Klotzsch) was a plant belonging to the family group Oxalidaceae found in Kebar District, West Papua Indonesia [15]. Kebar grass contains flavonoids, retinol, tocopherol and saponins [8]. Flavonoids that had a primary antioxidant function because they were free radical acceptors so they could inhibit free

radical chain reactions in lipid oxidation that could prevent membrane damage [16]. Polyphenol compounds such as flavonoids work by changing H_2O_2 into H_2O and O_2 [17]. The content of retinol (vitamin A) in Kebar grass functions as an antioxidant. Beta carotene works by reacting with free radicals and causing free radicals to become stable. Beta carotene (retinol) works together with tocopherol contained in Kebar grass and ascorbic acid (vitamin C). Furthermore ascorbic acid which turns into radicals is stabilized by the natural antioxidant glutathione [6]. The content of tocopherol (vitamin E) in Kebar grass prevented free radicals by giving H atoms from hydroxyl groups to lipid peroxy radicals. Radicals formed from alpha-tocopherol would be stabilized through electron delocalization in the aromatic ring [18]. Vitamin E can reduce TCDD-induced AhR activation so that it can be used as prevention and treatment of acute or chronic TCDD intoxication [12]. This can be strengthened by research conducted by [19] which proved that vitamin E has an antagonistic effect on TCDD toxicity in the process of spermatogenesis. Saponins included in the steroid group compound in an acidic stomach will break the sugar portion, so that it can have an effect for increasing the in free sterols. These sterol compounds are the basic ingredients of testosterone (pregnenolone) [20]. From this explanation it can be seen that saponins can increase testosterone levels which accelerate the Leydig cells number.

In this study, there was a significant decrease in the positive control group (C+) in Leydig cells number when compared to negative controls (C-) due to TCDD exposure. Whereas in T1, T2, and T3 there was a significant increase in Leydig cells number each group. This proves that the administration of kebar grass extract at a dose of 0.045mg/g BB/day in group T1 can significantly increase Leydig cells number. In the T2 and T3 groups there was a significant increase in Leydig cells number when compared with positive controls. The three treatment groups differed significantly with C- which proved that all three doses cannot maintain the Leydig cells number. An increase in the number of Leydig cells had not yet reached the normal number of Leydig cells. Higher doses and longer doses can be used to achieve optimal results. The implication of oxidative stress in the etiology of several chronic and degenerative diseases suggests that antioxidant therapy represents a promising avenue for treatment. In the future, a therapeutic strategy to increase the antioxidant capacity of cells may be used to fortify the long term effective treatment [21].

CONCLUSION

Based on research that has been done, it can be concluded that the Kebar Grass extract could increase amount of Leydig cells which were exposed by 2,3,7,8-tetrachlorodibenzo-p-dioxin, although the increase in Leydig cells had not reached a normal amount (C-).

Conflict of interests: The authors declare that there is no conflict of interests regarding the publication of this article.

Source of funding: The authors express sincere thanks to the Ministry of Research, Technology and Higher Education of the Republic of Indonesia and Universitas Airlangga for funding research (Number 1408/UN3/2019).

REFERENCES

1. Dhanabalan S, Mathur PP, Latha P. TCDD and Corticosterone on Testicular Steroidogenesis and Antioxidant System of Epididymal Sperm in Rats. *Toxicol Ind Health*. 2015; 31(9): 811-822.
2. Yoshida R, Ogawa Y. Review Article Oxidative Stress Induced by 2,3,7,8-Tetrachlorodibenzo-p-Dioxin: An Application of Oxidative Stress Markers to Cancer Risk Assessment of Dioxins. *National Institute of Industrial Health*. 2000; 21-1.
3. Lai KP, Wong MH, Wong CKC. Inhibition of CYP450scc Expression in Dioxin-Exposed Rat Leydig Cells. *J. Endocrinol*. 2005; 185: 519-527.
4. Latchoumycandane C, Chitra KC, Mathur PP. 2,3,7,8-Tetrachlorodibenzo-p-Dioxin (TCDD) Induces Oxidative Stress in The Epididymis and Epididymal Sperm of Adult Rats. *Arch Toxicol*. 2003;7: 280-284.
5. Kopf PG, Walker MK. 2,3,7,8-tetrachlorodibenzo-p-dioxin increases reactive oxygen species production in human endothelial cells via induction of cytochrome P4501A1. *Toxicol Appl Pharmacol*. 2010; 15;245(1):91-9. DOI: 10.1016/j.taap.2010.02.007.
6. Sayuti K, Yenrina R (2015). *Natural and Synthetic Antioxidants*. Padang. Andalas University Press. Padang Indonesia.
7. Darbandi S, Darbandi M. Lifestyle modifications on further reproductive problems. *Cresco J Reprod Sci*. 2016;1(1):1-2.
8. Sembiring B, Darwati I. Identification of chemical component of kebar grass accession (*Biophytum petersianum*) from Papua and Java. *Bul. Littro*, 25(1): 37-44. DOI: 10.21082/bullittro.v25n1.2014; 37-44.
9. Lefaan PN. Effect of Kebar Grass (*Biophytum petersianum*) Infusion on Spermatogenesis of Mice (*Mus musculus*). *Jurnal Sains Veteriner*. 2014; 32: 55-67.
10. Yin HP, Xu JP, Zhou XQ, Wang Y. Effect of Vitamin E on Reproductive Hormones and Testis Structure in Chronic Dioxin-Treated Mice. *J.*

- Toxicol and Industrial Health, 2012; 28 (2): 152-160.
11. Chen BB, Zirkin BR, Ge RS. the Leydig Cell as a Target for Toxicants. Elsevier. USA. 2010; PP: 133-142.
 12. Chang HJ, Park JS, Lee EK, Kim MH, Baek MK, Kim HR, Jeong HG, Choi SY, and Jung YD. Ascorbic Acid Suppresses the 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD)-induced CYP1A1 expression in Human HepG2 Cells. J. Toxicology In Vitro, 2009; 23: 972-979. DOI: 10.1016/j.tiv.2009.02.008
 13. Dorbrzynski MI, Calkosinski I, Przywitowska JK, Brzoza AC, Waszkiewicz ES, and Parulska O. Effects of dioxins in environmental Pollution on development of tooth disorders. Polish J. of environ.2009; 18(3): 319-323.
 14. Karmilawati W. Vitamin E Potential Against Spermatogenic Cell Counts, Seminiferous Tubule Diameter, and Testosterone Levels in Mice Exposed 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD). Tesis Ilmu Biologi Reproduksi Universitas Airlangga. 2013.
 15. Lisangan MM, Syarief R, Rahayu WP, Dharmaputra OS. Effect of kebar grass (*Biophytum petersianum* Klotzsch) leaf extract on the growth and morphological structure of aflatoxigenic *Aspergillus flavus*. Food Research. 2019; 4(1):234-243. DOI: 10.26656/fr.2017.4(1).129.
 16. Choe E, Min DB. Mechanisms of Antioxidants in the Oxidation of Foods. Comprehensive Reviews in Food Science and Food Safety, 2009; 8: 345-358
 17. Sroka Z and Cisowski W. Hydrogen Peroxide Scavenging, Antioxidant and Anti-Radical Activity of Some Phenolic Acids. Food and Chemical Toxicology. 2003; 41(6):753-8. DOI: 10.1016/S0278-6915(02)00329-0
 18. Pokorny J, Yanishlieva N, Gordon M. Antioxidant in Food; Practical Applications, CRC Press. New York. 2001. //https.books.google.co.id. [22 Oktober 2019].
 19. Wati WK, Wurlina, Sarmanu. Potential of vitamin e on spermatogenic cell number in mice treated with 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD). Veterinaria Medika 2014; 7(3):224 – 231.
 20. Winarni D. Effects of Javanese and Korean Ginseng Root Extracts on Male Mouse Libido in Low Testosterone Preconditions. Berk. Penel. Hayati, 2007;12: 153–159.
 21. Pham-Huy LA, He H, and Pham-Huy C. Free Radicals, Antioxidants in Disease and Health. Int J Biomed Sci. 2008; 4(2): 89–96.