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   Amrita Panda, Lingaraj Sahu, Bhaskar Thakur, Gunupuru Bharat

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   Arunava Das, M. Vasundraa, V. Vinotha, P.S. Sanofer, J. Bindhu

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   Balkrishna Pralhadrao Nikam, Dhanraj D. Chavan, Nischhal Shrivastava, Namita Narkhede

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   Bikramaditya Swain, Ranjan Kumar Sahoo, Manoj Kumar G

   Crystal Soans, Jenitta E.P., Murali P.S., Veena Shetty A., Ravi M.S., Krishna Nayak U.S.

8. Evaluation of Carbapenem-Resistant Genes and Colistin Susceptibility in Gram Negative Organisms from Clinically Significant Samples
   Dhanyashree Rai, Pooja Rao, Sevitha Bhat, Udayalaxmi Jeppu

   Dipti Baishya

10. Correlation of Age, Sex, Waist Circumferences with Thyroid Disorders in Metabolic Syndrome Patients
    Gunjan Kumar Mandal, Suvarna Prasad, B.K. Agrawal

11. Emotional Intelligence and its Correlation with Academic Performance of Dental Undergraduates
    Harsh Parmar, Pronob Sanyal, Dhirajkumar Mane, Ketki Kulkarni, Shailaja Patil
12. Influence of Aging on Cardiovascular System in Elderly Male and Female Healthy Subjects
   I.N. Mitra, Lily Walia, B.K. Aggarwal, Gurdev Goyal

13. Incidence and Profile of Gross Congenital Malformations in a Tertiary Care Hospital in North India
   Jagjit Singh Dalal, Rohit Kapoor, Sandeep Jhajra, Manish Gupta

14. Attitude Towards Mental Illness among the Adolescents in Selected Colleges of Udupi District
   Jeeva M.V., Michelle J.M., Preethika, Manjula

15. A Clinico-Epidemiological Analysis of Seropositive Cases of Tropical Infections and their Co-Infection in Tertiary Care Hospital in South India
   Kristel Bhalla, Pooja Rao, Radhakrishna Manipura

16. Correlation between Neutrophil- Lymphocyte Ratio and Proteinuria in Diabetes
   Meenakshi Shetty, Mohammed Ahmed Hussain, Jayakumar Jeganathan, Pavan M.R.

17. Changes in the Brainstem Auditory Evoked Potentials in the Chronic Obstructive Pulmonary Disease
   Monika Kamra, Lily Walia, Sonia Kochhar

18. Emotional Intelligence and Happiness
   Nitin Girdharwal

19. The Role of Psychological Well-being in Positive Human Health
   Nitin Girdharwal

20. Online News Media Coverage of Women’s Health in India: A Content Analysis
   Olive Nerurkar

21. Migration and Displacement: The Case of Tuberculosis
   Paramita Barman

22. To Study the Knowledge Regarding Immunization among Caregivers of Under Five Children in Amritsar, Punjab
   Pooja Sadana, Kanwal Preet Kaur Gill, Manisha Nagpal, Amanpreet Kaur

23. Health Issue as One of the Barrier to Women Weavers
   Raju Saikia

24. Temporal Processing Ability in Normal Hearing Participants with Type-II Diabetes
   Rajesh Ranjan, Jayashree S. Bhat, Gagan Bajaj, Sujay P.

25. Impact of Dividend Announcement on Stock Returns and Market Efficiency in India
   V. Shanthaamani, V.B. Usha

26. A New Ensemble Approach to Predict Breast Cancer
   G. Manikandan, J. Poigai, R. Bala Krishnan, B. Karthikeyan, P. Rajendiran

27. Effectiveness of a Parent Education Programme on Knowledge Regarding Home Care Management of Children with Epilepsy
   Anila K.P., Rajee Reghunath
28. Indian Health Care Sector: A Case for Bringing Competition Framework Beyond Price Interventions
   Rakesh Kumar Sehgal, R.L. Koul
   137

29. An Analytical Study of Sleep Duration, BMI and Blood Pressure Reactivity among Medical College Students
   Randhir Singh Bisht, Lily Walia, Bimal K. Agrawal
   142

   Razia Haidrus, Deepa G. Kamath
   148

31. Impact of Working Status of Mothers on Nutritional Status of their Preschool Children from Selected Rural Areas and Urban Slums of Pune: A Preliminary Study
   Rupali Wagho, Kavitha Menon, Ravindra Ghooi
   153

32. Weekly Iron and Folic Acid Therapy in the Treatment of Anemia in Adolescents
   Sarala Premkumar, Padmasani Venkat Ramanan, T. Gayathri
   160

33. Envisaging the Model of a Yoga Based Physical Activity Promotion in India
   Satyajit Mohanty, Sandul Yasobant, Venkatarao Epari
   165

34. Dental Indices: An Appraisal at its Numerical Value
   Shishir Shetty, Rohith A. Nair, Aditya Shetty, Chitharanjan Shetty, Lakshmi Nidhi Rao, Ashutosh Shetty
   171

35. Psychology of Spirituality: Mental Health Perspectives
   Shivani Bhambri, Mamata Mahapatra
   176

36. Serodiagnosis and Molecular Characterization of Scrub Typhus in and around Vijayapura, North Karnataka Region
   Shriharsha Hegde M.L., Basavaraj V. Peerapur, Nazeer Sharif, S.L. Hoti
   181

37. Management of Type I Talon’s Cusp Using Cone Beamed Computed Tomography as a Diagnostic Aid: A Case Report
   Sree Theja Upadhyay, Tina Puthen Purayil, Siddharth Mehta
   186

38. Perception and Attitude Regarding Measles Rubella (MR) Vaccination
   Sreejesh K.P., Sheeba S., Haripriya V.R., Hima Gopinath
   190

39. Laryngospasm: Prevention Better than Cure
   Sumesh T. Rao, Julie C.R. Misquith, Karl Nicholas Sa Ribeiro
   194

40. A Study on Knowledge, Attitude and Practice Regarding Sanitation and Personal Hygiene among Sanitation Workers of an Urban Local Body in Odisha, India
   Tanmoy Kumar Satpathy, Kamala Kanta Sahoo, P.K. Satpathy
   200

41. Comparison of Ultrasound and Low Level Laser Therapy in the Management of Diabetic Foot Ulcer
   Vahini Devi. Ch, Chiranjeevi. Jannu, Prathap Suganthirababu, Goverdhan Puchchakayala
   204

42. The Level of Stress among the Parents of Children Having CAH 21 Hydroxylase Deficiency between 6 Years and above in a Selected Tertiary Care Hospital, Bangalore
   Vasantha Singarayan, Anita David, Vageesh Ayyar, Saji James
   207
IV

43. Taste, Taste Receptors and Role of GLP-1 Signaling in Taste Perception ..................................................... 213
   Vidya C Srikantaiah, Pratibha Pereira, Divya P. Kumar, Prasanna K. Santhekadur, Sai Priya D.,
   Sindhu R., Arehalli M. Mahalakshmi

44. Impact of Work Life Balance on Employee Performance ............................................................................. 219
   Vinita Kumari, S. Vasantha

45. Physical Fitness among the Dental Physician, Dental Undergraduates and Postgraduates Students .......... 223
   David, A. Jothi Priya, Gayatri Devi

46. Anti-Depressant and Anti-Anxiety Like Effects of Cydonia Oblonga in Mice Exposed to Mild Stress ...... 227
   Bushra Shaida, Karuna Singh, Ashok Kumar Dubey, Prashant Sharma

47. Accessibility and Barriers to Oral Health Care among Gypsy Tribes in Chennai: A Cross Sectional Study 233
   N. Divya Lalitha, Prabu. D., Rajmohan, Sunayana Manipal, Bharathwaj V.V.

48. Assessment of Knowledge and Perception of Kishori Shakti Yojana Services among Adolescent Girls
   of a Selected Community at Mangaluru with a View to Develop an Information Guide Sheet ................. 238
   Insha Maqbool, Leena K.C., Savitha, Devina E. Rodrigues

49. Factors Affecting Immunization Coverage of Children in Rural Area in Tamil Nadu .................................. 242
   Janani Jeevaraj, Jahnnavi Narayanan, J. Sharon Preethi, B. Charumathi, Ruma Dutta, Timski Jain

50. Awareness of Parents of Children with Congenital Heart Disease about Oral Health and Disease .......... 247
   Deepti Anna John, Jayanth Kumar Vadivel

51. Effectiveness of Coordination Exercise on Dynamic Balance of Knee Injured Male Professional
   Footballers ...................................................................................................................................................... 252
   Jibi Paul, M.S. Nagaraj, John Solomon

52. Evaluation of Muscular Endurance among Dentists ...................................................................................... 258
   Abigail, Jothi Priya, Gayatri Devi

53. A Study of the Evolution of Medical Education in Ancient India .................................................................. 262
   Joyshree Das

54. Effectiveness of Structured Exercise Program on Functional Capacity and Quality of Life in Grade III
   Chronic Obstructive Pulmonary Disease Patients .......................................................................................... 266
   Juhi Karne, Poovishnudevi T., Monisha R.

55. Trends in Hyperbaric Oxygen Therapy ........................................................................................................ 271
   K.T. Moly, Ravi Sankaran, Linette Roy, Maya J. Nair

56. Role of p53 and p21 Polymorphisms in Cervical Cancer Risk among Rural Population of South-Western Maharashtra: A Case-Control Study ................................................................. 277
   Kailas D. Datkhile, Madhavi N. Patil, Pratik P. Durgawale, Anand Gudur, Rashmi A. Gudur

57. An Explorative Study to Prevent the Incidence of Inpatient Falls in a Tertiary Care Hospital ................. 282
   Kayalvizhi Ashok, Khyathi G.V.

58. Probiotics and Oral Health: A Review .......................................................................................................... 287
   Khurana Suchi, Jodalli Praveen, K.M. Ramya, Arora Pallak
59. Effectiveness of Acupressure Therapy among Patients with Low Back Pain in Selected Acupuncture Clinics at Mangaluru ..................................................................................................................................................292
   *Li Jia Sara John, Gireesh G.R., Anju Ullas, Shashikumar Jawadagi*

60. Awareness about Blood Donation Process and Transfusion Transmitted Malaria in a Tribal District of Odisha, India...................................................................................................................................................297
   *Pallavi Mishra*

61. Reproductive and Sexual Health Knowledge and Utilization of Services among Adolescents: A Review Based on Available Literature...............................................................................................................................................303
   *Pooya Yadav, Nageshwar V., Prabhu J.*

62. A Retrospective Study to Understand the Clinico-Social Profile of Neonatal Deaths in a Teaching Hospital..........................................................................................................................................................307
   *Soumyashree M.N., R.G. Viveki, Sunanda Halki*

63. Hoarding Disorder Effects and its Management..........................................................................................................................................................................................................................................................312
   *R. Sree Raja Kumar*

64. Analysis of Trunk Muscle Activity in Hemiplegia During Sitting on Two Different Unstable Surfaces.....315
   *Indira Sharma, Radhika C.M., Sivakumar R., N. Venkatesh*

65. Physical and Psychological Health Issues among the Night Shift Workers.................................................................320
   *M. Sripriya, S.N. Sugumar*

66. Insomnia—Some Issues and Remedical Measures ..................................................................................................................324
   *G. Raguram, S.N. Sugumar*

67. Socio–Economic Conditions of Industrial Workers in Theni District of Tamil Nadu.............................................329
   *S. Saravanan, M. Ramesh, S.N. Sugumar, S. Chandrachud*

68. The Pattern of Rural Employment in India ........................................................................................................................334
   *S. Sudha, S. Jansi Rani*

69. Clinical Spectrum of Idiopathic Inflammatory Demyelinating Disorders in a Tertiary Care Centre in North–West India ..................................................................................................................................................338
   *Soumya Darshan Nayak, C.M. Sharma, B.L. Kumawat, D. Khandelwal, R. Yadav, Samir Sahu, Soumya Nanda*

70. Factors Associated with Fear of Falls in Indian Elderly: A Systematic Review...............................................................345
   *Sampada Dhavale, Sonia Singh, Raju K. Parasher*

71. Green Marketing in Food Industry and Impact on Health Issues..................................................................................350
   *Sayeeda Jabeen S., M. Kavitha*

72. Burnout: “Lived Experience” of Working Mothers: A Phenomenological Study ..........................................................354
   *Sejal K. Darbar, Kalpana Sawane*

73. Prevalence of Cognitive Impairment among Elderly ........................................................................................................359
   *Elizabath Jacob, Sheela Pavithran, Priya Vijaykumar*
74. Prevalence of Shoulder Girdle Dysfunction in Computer Users with Non-specific Neck Pain

Singh Neeraj, Kumar Pragya, Parasher K. Raju

75. Comparison of Antimicrobial Efficacy of Chlorhexidine Mouthwash, Lemongrass (Cymbopogon) Oil and Neem (Azadirachta indica) Oil Against Oral Microflora: An in Vitro Study

Subhashree Mohapatra, Sri Sakthi Doraikannan, Meignana Arumugham Indiran, Pradeep Kumar Rathinavelu

76. Assessment of Microhardness of Enamel Carious Like Lesions After Treatment with Nova Min, Bio Min and Remin Pro Containing Toothpastes: An in Vitro Study

Subhashree Mohapatra, R. Pradeep Kumar, I. Meignana Arumugham, D. Sri Sakthi, P. Jayashri

77. Effect of Present Day Video Games on Adolescent Cognitive Abilities

Sujatha Bhat, Liegelin Kavitha Bernhardt, Ashmitha Thinakaran, Leeyvadhashiny Ganasan, Pirativ Rao Jagathesa Rao

78. Development of Frame Work to Minimize Waste in the Surgical Unit of a Tertiary Care Hospital

Suvenitha D., Shalini D.

79. Antifungal Sensitivity of Candida Sp. Isolated from Skin Infections at a Tertiary Care Teaching Hospital

Chandan Das, Shrikant Kumar Dhar, Debasmita Behera

80. Effectiveness of Emotional Freedom Techniques: A Pilot Study

Deepak Krishnamurthy, Anil Sharma

81. Effectiveness of Warm Footbath on Quality of Sleep among Elderly

Linju Prasad, Gireesh G.R., Hezil Reema Barboza, Shashikumar Jawadagi

82. Selfie Taking Behavior among College Students: A Cross Sectional Study

Arijit Kundu, Lipilekha Patnaik, Sumitra Pattnaik, Trilochan Sahu

83. A Study on Human Resource Development Climate Survey in Selected Public Sector Banks in Special Reference to Thiruvannamalai District

K. Indira, M. Vetrivel, P. Jagatheesan

84. To Compare Tympanoplasty with Temporalis Fascia and Tragal Perichondrium in Patients with Chronic Suppurative Otitis Media

Mannuru Khaleel Basha, Ganesh S. Khairmode, Abhay D. Havle

85. Reducing Fertility Rate: A Threat Leader States

Meenakshi, Tushinder Preet Kaur

86. A Correlational Study on Knowledge and Practice of Fluid and Electrolyte Administration among Staff Nurses of Selected Hospitals at Mangaluru

Melvin Jacob, Shashikumar, Jobin, Hezil Reema Barboza

87. Analysis of Pattern and Extent of Substance Abuse/Dependence: An Institutional Study

Suman Deshwal, Minakshi Vashist, Rajiv Gupta

88. Health Seeking Behavior among the Mothers of Under Five Children with Upper Respiratory Tract Infection

N. Siva, Baby S. Nayak
89. Prevalence of Depression among Elderly in the Urban Field Practice Area of Rajarajeswari Medical College and Hospital: A Cross Sectional Study ..................................................................................................................................................436
   A.C. Shyam, Naveen Kumar P., Bhanushree

   A. Amir Anton Jone, T. Anita Jones Mary Pushpa, Navin M. George, K. Martin Sagayam, Suresh Subramanian, P. Esther Jebarani

91. A Study of the Engineering Maintenance Services of a Tertiary Care Hospital ........................................446
   A P Pandit, Shithil Birthi,

92. Effect of SAQ Training on Vital Capacity and Peak Expiatory Flow Rate among School Students of Rural Area ..........................................................................................................................................................450
   Anindya Bhowmik, Sandeep Kumar

93. A Study of Knowledge and Awareness Regarding Pulmonary Tuberculosis in Patients Under Treatment for Tuberculosis in Tuberculosis Unit Ambala City (Haryana) ........................................................................................................455
   Harshpreet Singh, Anu Bhardwaj, Zahid Ali Khan, Anshu Mittal, Muzamil Nazir, Parul Jain

94. Effectiveness of Active Release Technique Versus Myofacial Release Technique on Patients with Plantar Faciitis: A Comparitive Study ................................................................................................................................................460
   Arul Pragassame S., Mohandas Kurup V.K., R. Santhose Kumar

95. Patient Expectation Survey: An Adjunct to Successful Delivery and Reception of Health Care Services....466
   Arunima Chauhan, Kaldeep Singh Shekhawat, Harshpriya, Sarah Yazmeenbinti Yahya, Hani Hazreenbinti Abdul Rahman Raja

96. A Feasibility Study of Skill Transfer to Female Health Worker in Screening of Cervical Cancer and Breast Cancer ..................................................................................................................472
   Radhika Joshi, Asha K. Pratinidhi, Vaishali Vhawal, Pandurang Chougule, Sujata Kanetkar, Sunita Tata, Satish Kakade

97. Immediate Effect of Post Deep Neck Flexors Endurance Test on Neck Reposition Accuracy in Smartphone Addictors ........................................................................................................................................476
   Emmy Bucyana, Ayyappan Jayavel, Ndahiriwe Chance Christian

98. Gender Dynamics in Morality of Alcohol Addict and Non- Addict Young Indian College Students.........481
   Bhawani Singh Rathore, Uma Joshi

99. Role of Ultrasound in the Characterization of Thyroid Nodule in Correlation with Fine Needle Aspiration Cytology ........................................................................................................................................486
   Bikramaditya Swain, Sudhansu Sekhar Mohanty, Binit Gupta, Gitanjali Satpathy

100. A Study of Impact of Voice of Customers for Admissions Department of a Quaternary Care Hospital ......492
    A.P. Pandit, Sandhya Sharma

101. Effect of Combination of Active Stretching and Deep Breathing Exercise for Pectoral Group of Muscle Tightness in Breast Feeding Mother .........................................................................................................................................501
    Neha Kadam, Javid Sagar
To Determine Spectrum of MRI Imaging in Vertebral Artery Dissection: A Radiological Study

P R Shaha, Manisha Luhana

A Study to Assess the Iodine Level in the Salt and Salt Preservation Practices among Homemakers of Selected Households at Mangaluru

Reziya Hafeez, Leena K.C., Ananda S., Devina E. Rodrigues

An Analysis of Agricultural Development in Tamilnadu with Special Reference to Madurai District

S. Thangamayyan, Premalatha, S. Chandrachud

A Study on Problems Faced by Sipcot Industrial Labours in Reference to Cuddalore District

M. Vetrivel, K. Indira

Reducing Fertility Rate: A Threat to Leader States

Meenakshi, Tushinder Preet Kaur

A Qualitative Study to Assess Selected Psychosocial Experiences of Clients Admitted in Step Down Wards at Selected Hospitals Hyderabad, A.P.

Beulah Jasmine Rao

Cost Analysis of Intra Operative Anaesthesia Services in Tertiary Care Hospital

C. Lakshmi Venkatesh, Aileen J., Narendranath V

Prediction of Heart Diseases Using Hayes Process Macro Serial Mediation Model 6

Ruchi Mittal

Effectiveness of Information Booklet on Knowledge Regarding Methicillin-Resistant Staphylococcus Aureus (MRSA) among Staff Nurses

Anuja Varghese, Gireesh G.R., Janet Prima Miranda, Shashikumar Jawadagi

Maternal and Perinatal Outcome in Patients with Meconium Stained Liquor in First Stage of Labour: A Retrospective Study

Tanu Bhati, Sunil Takiar, Kalpna Kulshrestha, Sukla Debbarma

Salivary pH as a Factor in Oral Health and its Correlation with Diet

Swathy S., Muralidharan. N.P.

An Analytical Study on Physical Activity, Functional Capacity and Sleep Health in Patients with Type 1 and Type 2 Diabetes

V. Prithiha, T. Senthil Kumar, N. Venkatesh, S. Sridevi

Title: Knowledge, Attitude and Practice Regarding Hepatitis B Infection among Nursing Staff of Tertiary Care Hospital in South India

Pallavi A. Potdar, Ashutosh B. Potdar, Vivek R. Raikar

Effectiveness of Puppet Show on Knowledge about Child Safety Based on Learning Styles among School Children at Udupi District in India

Josvita Sandra Fernandes, Anice George, Manjula

Impact of Blood Pressure on Cognitive Functions of Middle-Aged Male and Female Individuals

K. Amritha Mahalingam, Manjunatha Aithala, Lata Mullur
117. Prevalence of Work Related Musculoskeletal Disorders among Sugarcane Farmers in Muzaffarnagar, India

Shahrukh Chaudhary, Zuheb Ahmed Siddiqui, Prachi Tiwari, Junaid Jameel

118. Effectiveness of a Training Program on Improving the Knowledge, Attitude and Skill in Providing Cardiopulmonary Resuscitation (CPR)—An Interventional Study

Swapnil Thulung, Melita Sheilini, Soumya Christabel

119. Comparative Evaluation of the Effectiveness of Apron with Mandarin Collar and Open Collar in Prevention of Microbial Contamination on Street Clothing

Yashaswini Shetty, Ashwini Hegde, Srikant N, Ashwin Rao, Karuna Y M, Anupama Nayak P

120. A Comparative Study on Awareness and Preventive Practices Regarding Dengue Fever among Selective Semi-Urban and Rural Population in Chennai, India

Yogesh Mohan, Anbarasu K., Aishwarya K., Aishwarya S. P., Timsi Jain

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B.L. Meel

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Meel B.

123. The Role of Dermacyn Solution in the Treatment of Infected Diabetic Foot Ulcers in Basrah: A Randomized Clinical Trial Study

Abdalhussein K. Marzoq, Raya Habeeb Abdulimam

124. Determinants of Exclusive Breastfeeding Duration on Infants in Girimaya Community Health Center Pangkalpinang City

Ade Devriany, Novidiyanto, Bohari

125. Ethical Issues in Relation to Evidenced-Based-Medicine and Hippocratic Oath

B.L. Meel

126. The Effect of Periapical Radiography X-Ray Radiation on Platelets, Leukocyte, Hemoglobin and Mean Corpuscular Volume (MCV) in Mice (Mus Musculus)

Bayu indra Sukmana, Huldani, Harun Ahmad, Hilyatul Auliya, Chelsy Oktavia, Anugrah Qatrunnada Hakim, Yenny Salmah

127. Radiation Doses from Computed Tomography Practice in Regional Hospital Center Hassan II of Agadir, Morocco

Bouchra Amaoui*, Slimane Senghouldi, Mustapha Massaq, Mohamed Aabid, Oum Keltoum Hakam, Abdelmajid Choukri, Abdennasser El Kharras


Decha Pinkaew, Khatittha Wonglangka, Tharnwimol Inthachai

129. An Analysis of the Correlation between Life Skills and Self-Efficacy with the Risk of Teenage Pregnancy

Deswinda, Rizanda Machmud, Yusrawati, Ahmad Syafruddin Indrapriyatna
X

130. The Development of the Thesis-Writing Perfectionism Inventory .......................................................... 643
Diniy Hidayatur Rahman, Punaji Setyosari, Adi Atmoko, Nur Hidayah

131. The Effectiveness of the Combination Therapy of Risperidone, Group Psychotherapy and Occupational Therapy on Cognitive Functions and the Quality of Life of Schizophrenia Patients .................................................. 649
Faisal Idrus, Erlyn Limoa, Iwan Honest, Idham Jaya Ganda, Jumraini Tammasse, Saidah Syamsuddin, Sonny T. Lisal

132. Compliance with the Baby Friendly Hospital Initiative Programme in Two Hospitals Designated “Baby-Friendly” in Kirkuk City, Iraq, an Evaluation Study .................................................. 655
Fakher Abobaker Ahmed, Dale Spence, Finoa Lynn, Richard Tubman, Ziad Mohammad Sadiq

133. The Evaluation of Professional Burnout among Health Workers at EL Idrissi Hospital in Morocco ........ 661
Hassan Saidi, Salma Ammor, Zakaria Abidli, Abdeslam Amri, Mounir Bouzaaboul, Abdelmajid Soulaymani, Abderrazzak Khadmaoui

134. Serum Ferritin Levels for Iraqi Patients with Hashimoto’s Thyroiditis ................................................ 667
Inaam Ahmed Ameen, Eman Saadi Saleh, Kaled Nather Taha

135. Analysis of Household Food Security and Food Insecurity in Donggala Regency ................................ 672
Isrun, Muhammad Basir Cyio, Syamsuddin Laude, Nurdin Rahman, Rustam Abdul Rauf, Annis Catur Adi, Muhammad Darma Halwi

136. Violence among Mental Health Nurses in Indonesia Related to Working Alliance: A Quantitative Study 677
Iyus Yosep, Helmy Hazmi, Henny S. Mediany, Zabidah Putit

137. Enhanced Fibrin-Lysis in Grade-1 Dengue Haemorrhagic Fever ....................................................... 682
L. Mutiara, Stephen C.L. Koh, Adang Bachtiar, Herman Hariman

138. Developing Sbar Effective Communication Instrument in Emergency Handover at Emergency Department of Hajj Hospital in Surabaya ................................................................. 688
M. Hendri Haryono, Nursalam Nursalam, Muhammad Hasinudin

139. Effect of Time Management Training Program on Nursing Managers’ Performance .......................... 692
Marwa Kamal Mohamed, Fatma Ahmed Abed, Eglal A. Abd Elwahab

140. A Descriptive Study of the Proportion of Gang Rape in Mthatha, South Africa ................................. 698
Meel B.

141. Topical Approach Versus Systemic Antimicrobial Therapy for Treating Diabetic Foot Infection in Ninevah ...................................................................................................................... 702
Moayad Alabdaly, Taha Hassan, Shahbaa Al Bayati

142. Histological Evaluation of Apical Closure After Autotransplantation of Immature Permanent Dog Teeth Treated with Regenerative Endodontic ......................................................... 707
Mohamed Seleem Elabd, Magdy Mohamed Ali, Mohamed Medhat Katia, Sherif Farouk Elgayar, Elham A. Hassan

143. Assessment of Radiation Risks During Brain CT Procedures in Moroccan Hospitals ........................ 713
Mohammed Aabid, Slimane Semghouli, Bouchra Amaoui, Mohamed El Fahssi, Oum Keltoum Hakam, Abdelmajid Choukri
144. Chemo Preventive Efficacy of Aspirin in Colorectal Cancer: A Narrative Review Approach
Mohammed Abujamal, Mariam Abdalla, Hind Almodaimegh, Senthilvel Vasudevan

145. Relationship between Income and Anxiety on Education, Health Access and the Poverty Level of Rural Communities in Sigi Regency, Central Sulawesi
Muhammad Ardi Munir, Muhammad Basiy-Cyio, M. Sabir, Muhammad Nur Ali

146. Screening of Nutritional Status Based on Mini Nutritional Assessment Short-Form (MNA-SF) among Elderly
Nuning Hartiana Widiastuti, Merryana Adriani, R. Bambang Wirjadmadi

147. A Health Facility-Based Study on Utilization of Antenatal Care among Myanmar Migrant Women in Five Border Districts of Tak Province, Thailand
Nyunt Naing Thein, Wongsa Laohasiriwong, Aung Kay Tu, Thin Thin Soe

148. The Influence of Ginger (Zingiber Officinale Roscoe) to Protect Cholinesterase Enzyme Activities of Mice that Exposed to Pesticide
Rachmaniyah, Rusmiati, Bambang Soenarko

149. Solicitude toward Complementary Therapy among Oncology Patients
Reham Samir Fatehallah, Hanan Ahmed Al Sebaee, Amel Saied Mahmoud

150. The Relationship of Childbirth Preparation Based on Childbirth Preparation Card with Maternal Morbidity and Fetal Outcomes
Renny Aditya, Samuel L. Tobing, Zayed Norwanto

151. Exploring Social Capital for Helping People with Severe Mental Disorders: A Preliminary Study
Re flooding, Ah Yusuf, Rachmat Hargono, Ahsan Ahsan, Soebagijo Soebagijo

152. Knowledge of Nurses about Prevention of Patient Fall Risk in Inpatient Room of Private Hospital in Medan
Roymond H. Simamora, Nurmaini, Cholina Trisa Siregar

153. Does Stunting Randomly Occurred in Indonesia: Spatial Analysis of Indonesia’s Basic Health Survey 2018
Sipahutar, Tiopan, Eryando, Tris

154. Probability of Characteristics, Abdominal Obesity, Diabetes Mellitus and Hypertension on Ischemic Stroke in Ngimbang Regional Public Hospital of Lamongan
Siti Rohmatul Laily, Santi Martini, Atik Choirul Hidajah

155. Enhancing Family Medicine Practice in Developing Countries through a Holistic-Comprehensive Care Model: A Review
Stefanus Supriyanto, Ernawaty, Febri Endra Budi Setyawan, Retno Lestari

156. Current Status and Awareness of Dental Trauma in B Region in Age of 20s
Sun-Mi Lee, Min-Ji Kim

157. Relationship between Satisfaction with Nurse Work Performance in Health Services in Hospitals
Suprapto
<table>
<thead>
<tr>
<th>No.</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>158</td>
<td>The Organization of Medical and Diagnostic Aids for Patients with Schistosoma Haematobium Invasion of Urinary System</td>
<td>V.Yu. Startsev, V.I. Oriol, A.Yu. Kolmakov, F.R. Asfandiyarov, V.S. Luchkevich</td>
</tr>
<tr>
<td>159</td>
<td>Early Breastfeeding Practice in Padang, West Sumatera</td>
<td>Vetty Priscilla, Pratiwi Wulandari</td>
</tr>
<tr>
<td>160</td>
<td>The Effectiveness of Treatment of Giant Gastric and Duodenal Ulcers with Endonasal Electrophoresis Dalargin (Tyrosyl-D-Alanyl-Glycyl-Phenylalanyl-Leucyl-Arginine Diacetate)</td>
<td>Kaliberdenko V.B., Mametova L., Shanmugaraj K., Shterenshis M.V., Mametov K., Keerthanaa B., Shadchneva N.A.</td>
</tr>
<tr>
<td>161</td>
<td>Effect of Education about LGBT on Student of Faculty of Nursing Andalas University</td>
<td>Yonzirnl Nurdin, Faradina Haniarahmah, Gusti Sumarsh</td>
</tr>
<tr>
<td>162</td>
<td>Mental Health and Social Capital among B40 Groups in East Coast of Peninsular Malaysia</td>
<td>Zainul Zulkifeli, Aziz Amin</td>
</tr>
<tr>
<td>163</td>
<td>The Influence of Nurse’s Knowledge Level on Behaviour Changes, Attitude and 5 Moments of Hand Hygiene Compliance</td>
<td>Danoe Soesanto</td>
</tr>
<tr>
<td>164</td>
<td>Feeding Care Patterns of Mothers Working as Shellfish Peelers on Children’s Nutritional Status at Integrated Health Posts in Coastal Areas</td>
<td>Meiana Harfika, Zhakiyah Saraswati, Dya Sustrami, Lela Nurlela</td>
</tr>
<tr>
<td>165</td>
<td>Determination the Role of Interleukin 31 (IL-31) Levels in Three Real Allergic Diseases (Asthma, Rhinitis, Urticaria)</td>
<td>Ali F. Hashim, Alia E.M. Alubadi, Suad A. Brakhas, Intesar Y. Al-ani</td>
</tr>
<tr>
<td>166</td>
<td>The Impact of Learning Technology on Some Motor Skills of Deaf and Mute Students in Comparison with Healthy Students</td>
<td>Maytham Mohsin Habeel Alhamdi, Salah Bresem Salih, Mahmood Abd Aljaleel Abd</td>
</tr>
<tr>
<td>167</td>
<td>Associated Factors of Anemia Incidences in Adolescent Girls at Guntung Manggis Public Health Center Working Area Banjarbaru City</td>
<td>Anjar Noviatingsih¹, Roselina Panghiyangani², Meitria Syahadatina Noor³, Husaini³, Lenie Marline⁴</td>
</tr>
<tr>
<td>168</td>
<td>The Prevalence of Tension Type Headache among Students of Baghdad College of Medicine in 2018</td>
<td>Aqeel Kareem Hatem, FIBMS (Neurology), Zuhair A. Al-Johar, Rand Abdul Jabbar Idrees, Mariam Ahmed Khalaf, Wasan Ahmed Shawket</td>
</tr>
<tr>
<td>169</td>
<td>Vasomotor Impact of Perivascular Adipose Tissue on Coronary Circulation</td>
<td>Abdulla A Ahmad, Hani M Almukhtar, Marwan M Merkhan</td>
</tr>
<tr>
<td>170</td>
<td>Anti-fungal Activity of Ginger Oil Against Aspergillus Fumigatus and Aspergillus Niger Causing Aspergillosis</td>
<td>Diyar Sagban Alwan</td>
</tr>
<tr>
<td>171</td>
<td>Esthetic Utility and Stem Cell Implication with an Innovative Surgical Procedure</td>
<td>Abdullatif A. Aljuboury, Sinan S. Farhan</td>
</tr>
<tr>
<td>Page</td>
<td>Title</td>
<td>Authors</td>
</tr>
<tr>
<td>------</td>
<td>-------------------------------------------------------------------------------------------------</td>
<td>---------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>172.</td>
<td>Factors Related to the Preeclampsia Incidence in the Delivery Room of General Hospital Ulin</td>
<td>Endhang Khodarsih, Roselina Panghiyangani, Meitria Syahadatina Noor, Husaini, Lenie Marlinae</td>
</tr>
<tr>
<td></td>
<td>Banjarmasin 2017</td>
<td></td>
</tr>
<tr>
<td>173.</td>
<td>Epidemiology of Hypercholesterolemia among Adults in Samara City</td>
<td>Abid Ahmad Salman Al-Mahmood, Ehan Abdulhadi Hussein Al-Sharifi, Asia Abed Al-Mahmood</td>
</tr>
<tr>
<td>174.</td>
<td>The Effect of Information, Expertise, and Supervision on the Obedience of Narcotics and Psychotherapy Reporting Officer</td>
<td>Erlina Syamsu, Husaini, Syamsul Arifin, Roselina Panghiyangani, Meitria Syahadatina Noor</td>
</tr>
<tr>
<td>175.</td>
<td>Effect of Some Factors and Variables on the Frequency-Time Distribution of the Otoacoustic Emissions</td>
<td>Adnan AL-Maamury, Dhifaf Ahmed</td>
</tr>
<tr>
<td>176.</td>
<td>Nickel Ions Release from Orthodontic Retention Wires after Dental Bleaching</td>
<td>Doaa B. Al-Nassar, Ammar Shehab Ahmed, Yassameen A. Salih</td>
</tr>
<tr>
<td>177.</td>
<td>Parental Responsiveness of Mindest-Based Nursing on Early Sexual Education to Prevent Child Sexual Abuse</td>
<td>Elok Permatasari, Kuntoro, Shrimarti R. Devy, Wiwin Hendriani</td>
</tr>
<tr>
<td>178.</td>
<td>Microbiological Diagnosis of Bacteria Isolated from Otitis Media</td>
<td>Eman Mohammed Tahir, HadeelAbdulhadi Omear, Nada Khalil Yaseen</td>
</tr>
<tr>
<td>179.</td>
<td>The Relationship Between Family Support and Family Burden Towards Readmission</td>
<td>Erma Erfiana, Meri Neherta, Netrida</td>
</tr>
<tr>
<td>180.</td>
<td>Baby Friendly Hospital Initiative in the Middle East Countries: A Review of the Literature</td>
<td>Fakher Abobaker Ahmed Gli, Dale Spence, Finoa Lynn, Richard Tubman, Zeyad Mohammed Sadeq</td>
</tr>
<tr>
<td>181.</td>
<td>Antenatal Care Quality Analysis Using the European Foundation Quality for Management Method in the Hospitals in Surabaya</td>
<td>Muhammad Ardian C. L., Farouk Ilmid Davik</td>
</tr>
<tr>
<td>182.</td>
<td>Antibacterial Activity of Zinc Oxide Nanoparticles Against Acinetobacterbaumannii</td>
<td>Firas Nabih Jaafar, Mustafa Shakir Hashim, Huda Zuheir Majeed, Laith Baseim Ali, Reem Saadi Khaleel, Nadia Kamil Bashar, Anaam Hameed Batah</td>
</tr>
<tr>
<td>183.</td>
<td>Effect of Selected Breathing Retraining Exercises on Symptoms and Quality of Life among Asthmatic Children</td>
<td>Gehan M. Amin, Gehan A. El-Samman, Azza A. Attia</td>
</tr>
<tr>
<td>185.</td>
<td>Prevalence and Risk Factors of Candida Albicans Infection among Group of Pregnant Women in Maternity Teaching Hospital in Sulimania City</td>
<td>Gona Othman Faris, Sallama Kamel Nasir</td>
</tr>
</tbody>
</table>
186. The Prevalence of Amblyopia and Refractive Errors among School Children in Diwaniyacity, Iraq: a Population Based Cross–Section Study

Haider Aswad Layikh, Saif Abbas Saeed, Alyaa Abdulameer Kadhum

187. Efficacy of the Health Belief Model and Multi-Dimensional Locus of Control Theory-Led of Influenza Vaccination among High School Students in Al-Nasiriyah City

Haider Hammed Hlail, Raad Kareem Faraj

188. Determinant of Personal Protective Equipment Practices on Construction Welders

Haris Setyawan, Isna Qadrijati, Seviana Rinawati, Tutug Bolet Atmojo.

189. Is There an Association between Body Mass Index and Cervical Length?

Hawzheen Q. Jalal, Srwa Ismael Khalid

190. Effect of Bee Venom on MRSA Isolated from Patient’s Wounds at Tikrit Teaching Hospital

Hayder Mudheher Abbas, Marwa Adnan Hasan, Sinor Dalshad Ali

191. Evaluation the Effect of Bone Wax on Healing of Bone in Rats

Hiba Abdulaziz Shekho

192. Isolation and Diagnosis of Fungus Fungi from Blood and Skin Samples in Dhi-Qar Province

Iman Hadi Al-ffayyadh, Ihsan Hameed Khudhair, Amany Shakeir Jaber

193. Waiting Time and Patient Satisfaction in Oral Diagnostic Polyclinic, Department of Dentistry, RSUPN dr. Cipto Mangunkusumo

Indira Larasputri, Endah Ayu Tri

194. Spectrophotometric Determination of Nifedipine in Pharmaceutical Tablets Using Batch and Flow Injection Method Via Diazotization Coupling Reaction

Intisar M. Alsaeedi, Sadeem S. Abed, Yasmeen H. Muhamad

195. Redesign of the Traditional Handloom for Sarong Female-Weavers Based on Anthropometric Data

Iwan Muhamad Ramdan, Krishna Purnawan Candra, Dina Lusiana, Krispinus Duma

196. Alteration in Quality of Life after Kidney Transplantation

Niyan Hakeem Ismael, Aso Omer Rashid

197. Family Empowerment with the Case Model on the Role of the Family and Exclusive Breastfeeding Behavior

Nurul Pujiastuti, Budi Santoso, Shrimarti Rukmini Devi, Merryana Adriani, Risa Etika

198. Functional Features of Platelets in Rats Fed a Standard Diet with Low Antioxidant Content During Ontogenesis

Olga Nikolaevna Makurina, Galina Sergeevna Mal, Svetlana Yuryevna Zavalishina, Ilya Nikolaevich Medvedev

199. Socioeconomic Disparities and Depression among Cambodian Migrant Workers in Thailand

Pall Chamroen, Wongsan Laohasiriwong, Amornrat Luenam, Poonsri Rangseekajee
<table>
<thead>
<tr>
<th>No.</th>
<th>Title</th>
<th>Authors</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>The Effects of an Integration of PRECEDE-PROCEED Model and Health Literacy in Behavioral Modification for Weight Control among Overweight and Obesity of Adolescents in the Northeast of Thailand</td>
<td>Pornthip Kaewchin, Pannee Banchonhattakit, Pall Chamroen</td>
<td>1010</td>
</tr>
<tr>
<td>201</td>
<td>Identification and Job Hazard Analysis in Playing Facilities at Klojen Kindergarten, Indonesia</td>
<td>Qomariyatus Sholihah, Endra Yuafandi Arifianto, Dewi Hardiningtyas, Amanda Nur Cahyawati, Rahmi Yuniarti, Nasir Widha Setyanto</td>
<td>1016</td>
</tr>
<tr>
<td>202</td>
<td>The Prevalence of H. Pylori Infection in Patients with Non-Ulcerative Dyspepsia</td>
<td>Raad Hassan Najim, Summer Saad Abdulhussein</td>
<td>1020</td>
</tr>
<tr>
<td>203</td>
<td>Effectiveness of an Education Program on Nurses’ Knowledge and Practice toward Nursing Management for Patients with Leukemia who are Undergoing Chemotherapy in Baghdad Teaching Hospital</td>
<td>Raghad Salih Mardan, Suad J. Mohammed</td>
<td>1024</td>
</tr>
<tr>
<td>204</td>
<td>In Vitro and Molecular Assessment for Lead Tolerance in Aloevera L. Callus</td>
<td>Rana A. Hameed Al-Roomi, Hashim K. Mohammed Al-Oubaidi, Rana Hadi Hameed</td>
<td>1030</td>
</tr>
<tr>
<td>205</td>
<td>Expression of APOBEC3H Isoenzyme on the Level of Protein in Breast Cancer Patients</td>
<td>Rebaz Moatasam, Kamaran Kayani</td>
<td>1035</td>
</tr>
<tr>
<td>206</td>
<td>A Study of Complications of Infants of Diabetic Mothers in Babylon Teaching Hospital for Maternity and Pediatrics</td>
<td>Rebee Mohsin Al-Ithary</td>
<td>1040</td>
</tr>
<tr>
<td>208</td>
<td>A Single-Centre Experience Study in Percutaneous Nephrolithotomy (PCNL) at Al-Safeer Surgical Specialized Hospital</td>
<td>Riyadh R. aal Toma, Ali M. Muhsen</td>
<td>1051</td>
</tr>
<tr>
<td>209</td>
<td>Evaluating the Vitality of Coccoid form of Helicobacter Pylori by a Transmission Electron Microscope Study</td>
<td>Saba Abdulsalaam Hamid AL-Sultan</td>
<td>1056</td>
</tr>
<tr>
<td>210</td>
<td>The Effect of Using Healthy Programmed Education on Learning the Basic Skills of Futsalin the Republic of Iraq</td>
<td>Salah Bresem Salih, Maytham Mohsin Habeeb, Alhamdi, Mahmood Abd ALjaleel Abd</td>
<td>1062</td>
</tr>
<tr>
<td>211</td>
<td>Prevalence of Anxiety Disorder among Medical Student of Mosul University Iraq</td>
<td>Shatha Abdul-Rahman H. Al-Ghurairi</td>
<td>1065</td>
</tr>
<tr>
<td>212</td>
<td>The Burden in Providing Caregiving Service to Mentally Illed Patients in Ponorogo</td>
<td>Sugeng Mashudi, Ah. Yusuf, Rika Subarniati Triyoga, Kusnanto, Muhammad Suhran</td>
<td>1070</td>
</tr>
</tbody>
</table>
213. Organized Activities in Peer Groups Improve Mental and Social Well-Being in Adolescents: A Qualitative Study .......................................................... 1075
    Suharmanto, Bagong Suyanto, Windhu Purnomo, Rahma Sugihartati, Oedojo Soedirham, Sutinah

214. The Effect of Psychosocial Stimulation Assistance, Child Feeding and Children Health Care to Growth, Motor Development and the Decrease Frequency of Upper Respiratory Tract Infections for Stunting Children 2-3 Years of Age .......................................................... 1081
    Sukmawati, Bambang Wirjamadi, Merryana Adriani, Shrimarti Rukmini Devy

215. The Feeling of Surrender: Patients’ Perceptions of their Interactions with Nurses ........................................ 1087
    Sukriyadi Sukriyadi, Ida Bagus Wirawan, Suryanto Suryanto, Soenarnatalina Melaniani, Retno Lestari

216. Physiologically Justified Rehabilitation of the Children Who Underwent an Operation for Congenital Heart Disease, Including Tourism Elements ...................................................... 1091
    Svetlana Yuryevna Zavalishina, Mikhail Nikonorovich Komarov, Andrey Valentinovich Malyshev, Roman Valerievich Koziakov, Yury Borisovich Kashenkov

217. Relationship between Job Satisfaction with Employee’s Turnover Intention in Petrokimia Gresik Hospital .......................................................... 1096
    Candra Ferdian Handriyanto, Moh Badrus Sholeh, Nyoman Anita Damayanti

218. The Effect of Exercise on Activity Daily Livings and Happiness Level amongst the Elderly Population in Thailand .......................................................... 1101
    Chomlak Kongart, Yuttachai Likitjaroen, Surasak Taneepanichskul

219. Assessment of Pre and Post Training Nursing Documentation Program for Nurses in Accident and Emergency Hospital ........................................ 1105
    Delan J. Qader, Faruk H. Faraj

220. Relationship between Training on Employee Performance .......................................................... 1111
    Devita Tintasari, Swasti Niramaya, Nyoman Anita Damayanti

221. Premarital Screening to Determine High-Risk Pregnancy: A Systematic Review ........................................ 1115
    Dewi Puspitaningrum, Nuke Devi Indrawati, Indri Astuti Purwanti

222. Different Grades of BMI is Correlated with Left Atrium and Ventricle Structure in Patients with Hypertensive Heart Disease ...................................................... 1120
    Meity Ardiana, Rofida Lathifah, Makhyan Jibril Al-Farabi, Muhammad Satya Bhisma

223. Relationship Analysis of Factors with Implementation Measures Collaboration Effective Nurse in the HA Thalib Hospital Kerinci Indonesia 2018 ........................................ 1125
    Moza Suzana, Suharizal, Lili Fajria

224. Seroprevalence Rates of Typhoid Fever among Children in Endemic Areas, South Sulawesi, Indonesia .......... 1130
    Ressy Dwiyanti, Mochammad Hatta, Rosdiana Natzir, Sutji Pratiwi, Muhammad Sabir, Yadi Yasir, Rizki, Amelia Noviyanthi

225. Clinical Profile and Outcome of Juvenile Autoimmune Hepatitis in Iraqi Children ........................................ 1135
    Mohammad Fadhil Ibraheem

226. Nutritional Study on Promising Plants for Nephropathy Treatment of Male Albino Rats ........................................ 1141
    Mohammad Sinjar Farhan
227. The Role of 3D CISS MRI in the Evaluation of Primary Trigeminal Neuralgia
Mohammed abd Kadhim, Rasha Muzahim Rasheed, Bashar Talib Huweidy

228. Serum Levels of Oxidative Stress Biomarkers in Patients Obsessive Compulsive Disorder in Tikrit City, Iraq
Mohammed Amer Mohammed, Nihad Nejres Hilal, Ahmed Hashim Al Ani

229. Comparative Study of Lipid Profile in Sedentary and Active Hypertension Population of Maharashtra
Mohammed Salahuddin, Mohammed Ubaidullah Sayeed

230. Study of Role of Serum Proteins in Viral Hepatitis in Maharashtra Population
Mohammed Ubaidullah Sayeed, Mohammed Salahuddin

231. Vitamin D Receptor Polymorphisms and Correlated with Some Chronic Diseases among Iraqi Women
Nadhim M.H., Haider Turky Al-Mousawi, Nktel Faaz Nassir Al-Saad, Qabas Neamah Al-Hajjar

232. Estimation of Serum Level of Micro RNA 224 in Different Stages of Hepatocellular Carcinoma
Nady Mahmoud Semeda, Hala Ibrahim Mohammed, Zeinab Mostafa Saad, Wael Soliman

233. Histopathological Changes of Mice Immunized by Serratia Marcescens Whole Cell Sonicated Antigens
Nasr T. Mohammed

234. Effect of Healthy Special Exercises of Interval Lactic Technique in the Development of Bearing the Performance, LDH Enzyme, and Schematic Action for Young Football Players Health
Ahmed Murtada Abdulhussein, Fadhil Daham Mansour, Khalid Mohammed Ridha

235. The Effect of Perceived Quality and Perceived Sacrifice to Perceived Value at Inpatient Installation of Dr. Soetomo Hospital Surabaya, Indonesia
Florentina Joestandari, Stefanus Supriyanto, Joni Wahyuhadi, Ade Nurma Ruditya, Alexander Patera Nugraha

236. Reduction and Fixation of Orbital Floor Fracture Using Trans-Antral Balloon Technique: A Case Report
Aly Gomaa, Khaled Barakat

237. Determination of Some Human Enzymes Activities in Presence of Titanium Oxide Nanoparticles
Amer Hasan Abdullah, Manal Sadiq Hammoodi, Emad Mahmoud Eltayef, Abeer H.M. Safaryan

238. Creating Value by Service Experience to Increase Health Service in hospitalized South Sulawesi Hospital, Indonesia: A Literature Review
Armin, Alimin Maidin, Indahwaty Sidin, Fridawaty Rival, Burhanuddin, Muhammad Safar, Risnah

239. Investigation of Infectious Stages of Intestinal Parasites and Fungal Spores which Contaminated Nails of Some Students in Tikrit University, Iraq
Ashraf J. Mahmoud Zangana, Ruua H. Latef Dunia A. Huseen

240. The Significance of Vimentin and Matrix Metalloproteinase-9 in Oral Squamous Cell Carcinoma in Relation with Tumor Depth and Prediction of Lymph Node Metastasis in South of Iraq
Aws Rassul Hussain Al-Salih

241. Comparative Study of Two Different Telescopic Crown Materials Retaining Lower Partial Overdenture
Ayman H. Amin, Gehan Fikry, Fardos N. Rizk, Amr B. Ismail
242. Renal Protective Effect of Quercetin on Cisplatin-Induced on Some Blood Parameters and Nephrotoxicity in Male Rats

Baida R. Ali

243. Factors Influencing Professionalism of Nurses in Community Based Non-life Insurance Company in South Korea

En-Ju Song, Bo Young Kim

244. Studying TMJ Changes After Using Twin Block Appliance for the Treatment of Class II Cases

Ahmed Abdel Monem Abdel Emam, Wael Mohamed Mubarak Refai

245. Abuse of Appetite Stimulant Medications in AL-Anbar, Iraq

Mohammad Sinjar Farhan

246. Organized Activities in Peer Groups Improve Mental and Social Well-Being in Adolescents: A Qualitative Study

Suhamanto, Bagong Suyanto, Windhu Purnomo, Rahma Sugihartati, Oedojo Soedirham, Sutinah

247. Occupational Asthma Severity among Flour Mill Workers and Adherence to Preventive Guidelines

Shaban M.M., Abdou N.M., Abdel Rehim A.I.

248. E. Coli Bactria Deactivation by Plasma Jet with Replica Plate Technique

Rana Talb Mohsen, Farkad Hawas Musa, M.D.T. Al-Gabore

249. Pulmonary Rehabilitation for People with Pulmonary Tuberculosis: A Concept Analysis Based on Walker and Avant Approach

Nur Akbar, Astuti Yuni Nursasi

250. Physiological Mechanisms of Rehabilitation in Vegetative Vascular Dystonia

Vladimir Yurevich Karpov, Svetlana Yuryevna Zavalishina, Angela Valerievna Romanova, Tatyana Mikhailovna Voevodina

251. Assessment of Nurses Staff Knowledge Regarding Chest Pain Management and Respiratory Maintains in Cardiac Care Unit

Younus Khudhr Babeez, Shelan Qahraman Shakor, Suhailah Mohammed Ali

252. Morphological and Molecular Study of Contracaecum Larvae with a New Record of Contracaecum Septentrionale in Al-Sanaf Marsh Southern Thi-Qar Province, Iraq

Zainab Abd-Ali Mohammad, Mohammad Kareem Hbaiel

253. Anthropometric with Thyroxine Hormons in Iraqi Women

Zainab Abdul Wahed Naji

254. Isolation and Identification of Pathogenic Bacterial Species from Refrigerators in Basrah City, South of Iraq

Zainab Alag Hassan, Rashid Rahim Hateet, Abdulameer Abdullah Al-Mussawi

255. Motivation for Choosing Medicine as a Career, among Students of Baghdad Medical College

Zuhair A. Al-Johar, Aya Ahmed Ridha, Donia Saad Zidan, Dalya Mahir Salih
256. Thyroid Dysfunction and Abnormal Uterine Bleeding ................................................................. 1292
   Tara Hasan Al-Bajalan, Srwa Ismael Khalid

257. Prevalence of Helicobacter Pylori in Children with Type 1 Diabetes Mellitus and its Association with C-peptide and HbA1c ................................................................. 1298
   Thanoon Yahya AL-Azzawi, Ahmed Sattar Abood, Mohammed Shaker AL-Awady

258. Congenital Heart Defects in Children and the Main Approaches to Rehabilitation After their Surgical Treatment ................................................................. 1303
   Vladimir Yurevich Karpov, Svetlana Yuryevna Zavalishina, Angela Valerievna Romanova, Mikhail Nikonorovich Komarov, Viktor Ivanovich Sharagin

259. Genotoxic and Teratogenic Effects of Mycophenolate Mofetil in Mice ............................................. 1308
   Wajdi Sabeeh Sadeq, Ruida Watheq Neama

260. Toxic Effects of Acute Cadmium and Lead Exposure in Rat Blood, Liver, and Kidney ..................... 1314
   Wasan Najim Abdul-Sada

261. Celiac and Thyroid Diseases in Some of Iraqi Patients with Juvenile Rheumatoid Arthritis ................. 1319
   Wisal Salman Abd, Najah Salman Abd

262. Sequence Analysis of Telomerase RNA Component (TERC) in Iraqi Patients with Breast Cancer Using Bioinformatics Method ................................................................. 1323
   Wissam Lateef Abdullah, Abbas Abdullah Mohammed

263. Validity and Reliability of the Indonesia Version of HIV Treatment Adherence Self-Efficacy Scale (HIV-ASES) in Men who have Sex with Men in West Sumatra ................................................. 1329
   Yafi Sabila Rosyad, Hema Malini, Rika Sarfika

264. The Association between Meaning in Life and Adherence to Antiretroviral Therapy (ART) of HIV-Seropositive within Men who have Sex with Men (MSM); Mixed Method ................................................................. 1333
   Yafi Sabila Rosyad, Hema Malini, Rika Sarfika

265. Prevalence of Lower Back Pain among Health Care Providers Working in Operation Rooms in Mosul City Hospitals ........................................................................................................ 1338
   Rami Ramadan Allo, Tameem Thamir Mayouf, Mohammed Tariq Ali

266. Positive Deviance Against Malaria Events in Majene District ............................................................. 1342
   Arsunan, A. A., Indra Dwinata, Januar Ariyanto, Muhammad Akbar Nurdin, Aisyah

267. Genetic Identification of Aplocheilus Panchax from the Waters of West Papua Using Molecular Approach for Preventing the Spread of Malaria ........................................................................ 1348
   Lutfi, Hermawaty Abubakar, Marhan Manaf, Ida Lapadi, Muhammad Dailami

268. The Effect of National Health Care and Motivation of Maternity Mothers in Health Care Facilities in the Working Area of Bantilang Health Center East Luwu Regency in 2018 .................................................. 1354
   Nilawati Uly, Suhra Surdin

269. The Effect of Granisetron and Ondansetron on Hemodynamic During Cesarean Section Under Spinal Anesthesia .................................................................................................................. 1359
   Syafri Kamsul Arif, Ahmad Nur Islam, Alamsyah A.A., Muh. Ramli Ahmad, Syafruddin Gaus, Hisbullah
270. The Accessibility of Health Services for Multiethnics Community Towards Universal Health Coverage in Samarinda City: A Qualitative Study

   Ratno Adrianto, Amran Razak, M. Alimin Maidin, Darmawansyah

271. The Role of Estrogen and Progesterone Hormones Imbalance in Premenstrual Syndrome of Female Adolescent

   Suriani Bahrun, Yunita Suriani Suardi, Yanti Mustarin, Kusumawardani Bakri

272. Factors that Influenced the Use of Family Planning (KB) in Padang Hulu District of Tebing Tinggi 2018

   Namora Lumongga Lubis, Hasnida

273. Efficacy of Topical Cream of Garlic Extract (Allium Sativum) on Wound Healing in Experimental Mice using Acute Wound Modeling: Determination of Expresión of Tumor Necrotic Factor (TNF-α)

   Zaenal, Rini Mustamin, Rusli Taher, Anwar Mallongi

274. Structural Intervention Problematic of Condom Usage in Makassar City, Sulawesi Selatan Indonesia

   Hairuddin K

275. Antenatal Care Documentation Information System Integrated with Web-based Government Employed Midwife Performance Index (Seindah Lutra)

   Elviana Datulinggi, Ansar Suyuti, Mardiana Ahmad, Syarifuddin Syarif, Samrichard, Azniah Syam

276. Correlation of HbsAg, HBeAg and HBV DNA Viral Load in Chronic Hepatitis B Patients

   Asvin Nurulita, Uleng Bahrun, Umi Intansari, Budi Mulyono

277. Women Participation in Fast Food Control in Kendari City, Indonesia

   Tasnim Tasnim, Maria Inge Lusida, Anwar Mallongi

278. Calculation of Potential Risks Assessment of Escherichia Coli and Total Coliform in Communities Well Water of Puty Village, Luwu Regency

   Anwar Mallongi, Herlianti, Hasnawati Amqam, Dwia Aries Tina Pulubuhu, Muhammad Arsyad, Muh. Saleh Jastam, Muhammad Rachmat

279. Proinflammation and Anti Inflammation in Contrast Induced Nephrophaty Patient after Administration of Contras Media; Analysis of Interleukin 18 and Interleukin 37 Levels

   Uleng Bahrun*, Yuyun widaningsih, Rahmawati Minhajat, Andi Nilawati Usman, Wira

280. Influence of Teeth Brushing Behavior, Saliva Flow Rate, Salivary Hydration, Saliva Viscosity and Saliva PH on Risk of Caries Occurrence in Adolescents in Gianyar, Bali, Indonesia

   Anak Agung Gede Agung, Regina Tedjasulaksana, Maria Martina Nahak

281. Video Effect for the Prevention of Knowledge Increasing Stunting in State High School 1 Children in Topoyo Central Mamuju

   Ismail Kamba, Amran Razak, Sirajuddin Saefuddin, Sukri Palutturi

282. Religius Character in Improving Primary Health Services Quality in South Sulawesi

   Muhammad Tahir, Ridwan Amiruddin, Sukri Palutturi, Fridawaty Rivai, Lalu Muhammad Saleh
<table>
<thead>
<tr>
<th>ID</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>283</td>
<td>Analysis of the Expression Toll-Like Receptor 4 (TLR4) in Chronic Suppurative Otitis Media with and without Cholesteatoma</td>
<td>Riskiana Djamin, Restu Isnayah Handayani, Abdul Kadir, Muhammad Fadjar Perkasa</td>
</tr>
<tr>
<td>284</td>
<td>Intranatal Care Documentation Information System Integrated With Web-Based Government Employed Midwife Performance Index (Seindah Paniai)</td>
<td>Novita D.Ch.Kana, Ansar Suyuti, Mardiana Ahmad, Syafruddin Syarif, Samrichard, Azniah Syam</td>
</tr>
<tr>
<td>285</td>
<td>Analysis of Cotinine Levels in Urine as a Risk Factor of Otitis Media with Effusion in Children</td>
<td>Eka Savitri, Sutji Pratiwi Rahardjo, Haerul Saleh</td>
</tr>
<tr>
<td>286</td>
<td>Analysis of Plasma F2-Isoprostane Level After Administration of Vitamin C in Patients with Chronic Tonsillitis</td>
<td>Sutji Pratiwi Rahardjo, Abdul Qadar Panagi, Magdalena Octavia Sidabutar, Muh. Fadjar Perkasa</td>
</tr>
<tr>
<td>287</td>
<td>Comparison of Intraoperative Bleeding and Postoperative Pain of Tonsillectomy Using Method of Radiofrequency Dissection and Excision Dissection</td>
<td>Amsyar Akil, Eka Savitri, Heike Wilda Lokey</td>
</tr>
<tr>
<td>288</td>
<td>Relationship between Inflammatory Response on Chronic Rhinosinusitis with Polyps and without Polyps Review for IL-8, Eosinophyl and Neutrophyl</td>
<td>Abdul Qadar Panagi, Sofiatun Nurhuda Putri, Husni Cangara, Sutji Pratiwi</td>
</tr>
<tr>
<td>289</td>
<td>The Women’s Pregnancy Intention in Makassar City, Indonesia</td>
<td>Apik Indarty Moedjiono, Arifin Seweng, Indra Fajarwati Ibnu, Anwar Mallongi</td>
</tr>
<tr>
<td>290</td>
<td>Analysis of VDR Gene Expression and its Relationship with Bacterial Load in Typhoid Fever Patients</td>
<td>Suradi Efendi, Budu, Mohammad Hatta, Rosidiana Natsir, Nour Sriyanah, Maryunis, Ressy Dwiyanti</td>
</tr>
<tr>
<td>291</td>
<td>Stunting Status of New Children Enter Elementary School Between Urban and Rural Areas in Jayapura City, Papua</td>
<td>Wahida Y. Mapandin</td>
</tr>
<tr>
<td>292</td>
<td>Determinants of Exclusive Breastfeeding in 6 Months Old Infant in Jeneponto District</td>
<td>Nur Ulmy Mahmud, Tahir Abdullah, Arsunan A.A., Burhanuddin Bahar, Veni Hadju, Masyita Muis, Sri Sumarmi</td>
</tr>
<tr>
<td>293</td>
<td>Analysis of Microplastic Content in Baronang Fish (Siganus sp) and Kakap Fish (Lutjanus sp) in the Coastal Area of Bangkala Subdistrict, Jeneponto Regency</td>
<td>Yuliati, Anwar Daud, Anwar Mallongi, Burhanuddin Bahar Bahar</td>
</tr>
<tr>
<td>294</td>
<td>Factors Associated with the Appropriate Time of Complementary Feeding among Infants in Jeneponto Districs, South Sulawesi</td>
<td>Sumiaty, Tahir Abdullah, Burhanuddin Bahar, Nurhaedar Jafar, Veni Hadju, Masyita Muis, Sri Sumarmi</td>
</tr>
<tr>
<td>295</td>
<td>Analysis of Risk Factors Maternal Mortality in Sinjai District</td>
<td>Fitriani, Masni, M. Nadjib Bustan, Ummu Salmah, Stang, Muh. Syafar</td>
</tr>
<tr>
<td>No.</td>
<td>Title</td>
<td>Authors</td>
</tr>
<tr>
<td>-----</td>
<td>----------------------------------------------------------------------</td>
<td>------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>296</td>
<td>The Influence of Family on Use of Child Birth Facilities in Muna Indonesia: A Cross Sectional Study</td>
<td>La Ode Muhammad Sety, Arsunan A.A., Darmawansyah, Muhammad Basir Palu</td>
</tr>
<tr>
<td>297</td>
<td>Accessibility of Availability of Public Health Services Dayak Tribe in Samarinda “Qualitative Study”</td>
<td>Ansar Arifin, Muhammad Alvy Arifin, Darmawansyah, Yusri Abadi, Dian Saputra Marzuki, Suci Rahmadani, Muhammad Al Fajrin</td>
</tr>
<tr>
<td>298</td>
<td>Role of Genetic Polymorphisms of Angiotensin Converting Enzyme to Cardiovascular Endurance in Men Ages 13-14 Years After Fartlek Training for 3 Months</td>
<td>Fatoni, Haerani Rasyid, Rosdiana Natsir, Ilhamjaya Pattelangi, Andi Ihsan², Adam Mappaompo², Sudirman²</td>
</tr>
<tr>
<td>299</td>
<td>The Expression of miR-21 and miR-29c in Blood Plasma of Nasopharyngeal Carcinoma Patient Post-Chemoradiotherapy</td>
<td>Eka Savitri, Indira Maharis, Abdul Kadir, Riskiana Djamin, Sofia Mubariakaand, Tirta Wardana</td>
</tr>
<tr>
<td>300</td>
<td>Audiometric Profile of Fishermen Using Motor Boat in Barombong Village, Makassar</td>
<td>Muhammad Anwar, Eka Savitri, Trining Dyah</td>
</tr>
<tr>
<td>301</td>
<td>Implementation of Partnership between Midwives and Traditional Birth Attendants Inkotabaru District</td>
<td>Anggrita Sari, Adriana Palimbo, Angga Irawan, Sukamto, Isda Herlina</td>
</tr>
<tr>
<td>302</td>
<td>Risk Factors and Criminogenic Needs of Indonesian Inmates</td>
<td>Hasnida, Etti Rahmawati, Juliana Irmayanti Saragih, Namora Lumongga Lubis</td>
</tr>
<tr>
<td>303</td>
<td>Vitamin D Receptor Gene Polymorphism Fok 1 and Vitamin D (25-OH)D Status in Type 2 Diabetes Mellitus Patients with Pulmonary Tuberculosis</td>
<td>Wahiduddin, Agung Pranoto, Sudjarwo, Ni Made Mertaniasih</td>
</tr>
<tr>
<td>304</td>
<td>An Overview of Socio-Cultural Factors on the Utilization of Antenatal Care Services in Bajonese Pomalaa, Southeast Sulawesi</td>
<td>Fatmah Afrianty Gobel, A.M. Multazam, Andi Asrina, Ella Andayanie</td>
</tr>
<tr>
<td>305</td>
<td>Utilization of Mother and Child Health Services in Bajo Transport in the Coastal Area of Hakakutobu Village, Pomalaa District</td>
<td>A.M. Multazam, Fatmah Afrianty Gobel, Ella Andayanie, Andi Asrina</td>
</tr>
<tr>
<td>306</td>
<td>Influence of Customer Value on BPJS Patients with IUR Cost Satisfaction in Hospital of Makassar City</td>
<td>Marwah Thaha, Amran Razak, Indar, Fridawaty Rivai</td>
</tr>
<tr>
<td>307</td>
<td>Determinant Factors Affecting the Development of Motor, Cognitive and Socioemotional Children Ages 18-12 Months in the District Jeneponto, Indonesia</td>
<td>Sarih Karmila, Siradjuddin Saifuddin, Abdullah Tahir, Hadju Veni</td>
</tr>
<tr>
<td>308</td>
<td>Analysis of Human Platelet Antigen (HPA) in Thrombocytopenia Patients</td>
<td>Rachmawati Muhiddin, Nelly, Asvin Nurulita, Tutik Harjiandi, Moch Hatta, Mansyur Arif</td>
</tr>
<tr>
<td>309</td>
<td>The Application of Nesting and the Light Protective Cover of Incubator to the Stability of Oxygen Saturation and the Pulse of Low Birthweight Babies in the Newborn Intensive Care Unit in RSU Undata Palu, Central Sulawesi</td>
<td>Andi Fatmawati Syamsu, Aminuddin</td>
</tr>
</tbody>
</table>
310. Effectiveness of Flipchart Toimprove Knowledge and Attitude about Tuberculosison Mandar Etnic in Majene District West Sulawesi

Madjid Abdul, Muh Syafar, Arsunan, A.A., IdaLeida Maria, Muh Tahir Abdullah, Syamsiar S. Russeng, Anwar Mallongi

311. Accelerative, Effective and Efficient Tuberculosis (TB) Response to TB Elimination on 2035 in Medan Year 2017

Syarifah, Tukiman

312. Behavior of Tuberculosis Pulmonary Disease Prevention (Tb Paru) South Sulawesi

Herman

313. Children’s Nutrition Status 7-12 Months Based on Age, Education and Job of their Mother in South Sulawesi

Hastuti, Hadju Veni, Citrakesumasari, Maddeppungeng Martira, Tanziha Ikeu, Abdullah Tahir

314. The Effect of Health Social Determinant on the Life Quality of Pregnant Mother

Muhammad Anwar, Saifuddin Sirajuddin, Ridwan Amiruddin, Ridwan Thaha, Toto Sudargo, Anto J. Hadi

315. Implementation of Partnership between Midwives and Traditional Birth Attendants in Kotabaru District

Anggrita Sari, Adriana Palimbo, Angga Irawan, Sukamto, Isda Herlina

316. Socio-Cultural Transformation through the Process of Internalizing Values in Early Childhood Education in Makassar City (An Ethnographic Study of Education)

Juwanita Sahid, Nurul Ilmi Idrus, Hamka Naping, Munsi Lampe

317. Risks Assessment of Silica Contamination on the Communities Living Surround the Cement Industry, Pangkep Indonesia

Anwar Mallongi, Stang, Syamsuar Manyullei, Muhammad Fajar Natsir, Ratna Dwi Puji Astuti, Annisa Utami Rauf

318. Overview of TB Patients and their Behavior in the Buginese and Makassarnese South Sulawesi

Najamuddin Andi Palancoi, Alimin Maidin, Ridwan Amiruddin, Burhanuddin Bahar

319. Possible Role of BK Polyomavirus in Prostate Cancer

Asmaa M.S. Al-Bayati, Zaid Mohammed Sulaiman, Maad Mohammed Sulaiman, Muhammad Abdullah Alazzawy

320. A Meta-heuristic to Generate Rules for the Diagnosis of Heart Disease in Maysan Teaching Hospital

Gesoon J.K. Al-Abbas
321. The Effect of Different Concentrations of the Blue-Green Algae Water Extract *Anabaenaoryzae* on the Adult Beetle (*Calosoma inquisitor*) Order: Coleoptera for 24 Hours and 48 Hours after Treatment in Samarra, Iraq .......................................................... 1639
   *Athraa Hamid Jasim Al-rahmanny, Harith Ahmed Mustafa*

322. Learning Cardiopulmonary Resuscitation (CPR) Using an Interactive Method for Students of an Elementary School in Indonesia .......................................................... 1642
   *Bintari Ratih Kusumaningrum, Ika Setyo Rini, Nikma Afif Rosida*

323. Concentrations of Lead, Cadmium and Mercury in Cord Blood and Prematurity in the Sidi Bel Abbes Region (West of Algeria) .......................................................... 1647
   *Bouhadiba Hadjer, DEMMOUCHE Abbassia, Menadi Norreddine, Mai Hichem, Ferrag Dalila, Zine Charaf Khalloua, Bekhadda Hadjer*

324. The Potency of Private Practitioners on Tuberculosis Cases Finding and the Factors Associated in Surabaya City, East Java, Indonesia ................................................ 1654
   *Chatarina Umbul Wahyuni, I Wayan Gede Artawan Eka Putra, Hari Basuki Notobroto, Abdul Rohim Tualeka*

325. The Effect of Family Assessment of Less Chronic Energy (LCE) Pregnant on Nutritional Status of Pregnant and Baby Birth Size .......................................................... 1659
   *Demsa Simbolon, Antun Rahmadi, Jumiati*

326. Safe Concentration of Mercury (Hg) Exposure in Fish Consumed by the Residents of Bulawa Subdistrict, Bone Bolango District, Gorontalo Province, Indonesia ........................................ 1665
   *Deviyanti Wahyu Izati, Abdul Rohim Tualeka, Siprianus Singga, Pudhi Rahmawati, Syamsiar S Russeng, Atjo Wahyu, Ahsan*

327. Evaluation of Abutment Health Related to Two Different Retention Methods of Maxillary Obturator (Randomized Control Trial) .......................................................... 1670
   *Doaa Tawfik Hassan, Hamzawi AG, Mohamed Mohamed Fata, Gehan Fekry Mohamed*

328. Antibacterial Activity of Silver-Nanoparticles Synthesized Using *Trichoderma Harzianum* .............. 1675
   *Ehab Y. Jabber, Mohamed M. Abdul Hussein*

329. Incidence of Bacterial Vaginosis and Aerobic Vaginitis before and after Pessary Insertion in Indonesia 1680
   *Eighty Mardiyan Kurniawati, Faria Toma, Harry Parathon, Gatut Hardianto, Azami Azinar Denas, Kartuti Deborah, Firas Farisi Alkaff*

330. Mother’s Independence Model within Caring for Low Birth Weight Babies at Home after Hospital Care Based on Mother Factors, Family Support, and Social Support ........................................ 1685
   *Erlina Suci Astuti, Nursalam Nursalam, Shrimarti Rukmini Devy, Risa Etika*

331. The Evaluation of My Home My Village Method to Support the Complete Basic Immunization Programme in Surabaya, Indonesia ................................................ 1691
   *Fariani Syahrul, Hario Megatsari, Ratna Dwi Wulandari, Arief Hargono, Kurnia Dwi Artanti*

332. Safe Concentration of Benzene on Workers at Public Gas Stations around Diponegoro University Semarang, Indonesia .......................................................... 1697
   *Fatin Zuhra, Abdul Rohim Tualeka, Dimas Triyadi, Pudji Rahmawati, Syamsiar S Russeng, Atjo Wahyu, Ahsan*

333. Operations Strategy as a Strategic Reconciliation towards a World Class University in Indonesia ...... 1703
   *Febriana Wurjaningrum, Armanu, Fatchur Rohman, Mintarti Rahayu*
334. Analysis Factors Related to Coronary Heart Disease Prevention in Families by Adolescents:
A Cross-Sectional Study ................................................................. 1708
Fitriah Fitriah, Mustofa Haris, Mufarikah, M. Hasinudin, Nursalam Nursalam

335. Risk Factors of Gonorrhea Infection among Indirect Female Sex Workers (IFSW) in Indonesia 2015 .. 1714
Frans Landi, Nuning Maria Kiptiyah

336. Occupational Stress Due to Additional Tasks of Procurement of Goods and Services in
Provincial Health Office, East Java, Indonesia ......................................................... 1719
Hafidh Maulana, Mochammad Bagus Qomaruddin, Oedojo Soedirham

337. Healthy Reflection of Behavior Modification Strategies on Snatch Lift Technical Performance for
Students of the College of Physical Education and Sports Sciences .......................... 1724
Haidar Hassan Karam, AlaaKhaldoun Ziedan

338. Evaluation of Serum Lysyl oxidase and Calreticulin as Biomarkers in patients with
Chronic Kidney Disease ................................................................. 1730
Haitham S. Hamadi, Mohamed I. Hamza, Arif S. Malik

339. Differences in Consumption of Flavonoid Phytochemicals Toward Total Cholesterol and Ldl-Cholesterol
Levels in Dyslipidemia and Non-Dyslipidemia Groups of Minangkabau Ethnic Women .......... 1736
Hermita Bus Umar, Diah M. Utari

340. Dental Caries and Treatment Needs in Relation to Nutritional Status among Kindergartens
Children in Tikrit City, Iraq ................................................................. 1742
Hind Thyab H. AL-Nassary, Ahlam Taha Mohammed

341. Evaluation of Implant Stability in Three Implants Supported Milled Bar Mandibular Overdenture Cases:
A 1-Year Follow-up Clinical Trial ......................................................... 1748
Hussein Abdel Hady Hussein, Amr Mohamed Ismail Badr, Emad Mohamed Tolba Mahmoud Agamy,
Gehan Fekry Mohamed

342. Comparison between Anterior Colporrhaphy with Kelly’s Plication and Tension Free Vaginal
Tape–Transobturator Approach (TVT-O) in the Treatment of Mild Stress Urinary Incontinence .......... 1754
Inas Taha Ahmed, Maha Abdul-Allah Rashid, Osama F Qaisi

343. Evaluation of Some Enzymes, Hormones, Other Related Biochemical Parameters in Sera and
Follow up of Women after Treatment of Breast Cancer ........................................... 1760
Jamal A. ALJabbar Attawi, Nazar Ahmed Naji Abed.

344. Arthroscopic Coblation for Temporomandibular Joint Disc Release ........................................... 1766
Khaled I Barakat, Diaa El Saied

345. The Influence of Halloysite Nanotube Addition on Some Properties of Room Temperature
Vulcanized Maxillofacial Silicone before and after Simulated Aging .......................... 1770
Khalid A. Al-Obaidi, Mohammed Moudhaffer M Ali

346. Effect of Computer Related Ergonomics Intervention on Knowledge and Practice of
Primary School Children ................................................................. 1776
Lamiaa Saad Abdallah, Nagah Mahmoud Abdou, Afaf Ibrahim Abd Elrehim

347. Plasma Leptin and Insulin Resistance Correlation with Obesity in Pre Pubertal Children ............ 1782
Leersia Yusi Ratnawati, Bambang Wirjatmadi, Merryana Adriant, Roedi Irawan
<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>348.</td>
<td>Safe Concentration of Lead in Community Drinking Water in the Tapak River Area, Tugu City District, Semarang</td>
<td>Mahfiro Risky Safitri, Abdul Rohim Tualeka, Puspito Raharjo, Pudji Rahmawati, Syamsiar S Russeng, Atjo Wahyu, Ahsan</td>
</tr>
<tr>
<td>349.</td>
<td>Finding of Helicobacter Pylori through Biopsy Trials to Gastro-intestinal Region Infections in Iraq Patients</td>
<td>Mariam Kareem Ali, Jaafar Sataar Shia</td>
</tr>
<tr>
<td>353.</td>
<td>Rehabilitation Potential of Physical Activity Complex with Elements of Sports and Health Tourism in Case of Dysfunction of the Cardiovascular System in Adolescence</td>
<td>Mikhail Nikanorovich Komarov, Svetlana Yuryevna Zavalishina, Alexander Alekseevich Karpushkin, Andrey Valentinovich Malyshev, Elizaveta Sergeevna Kumantsova</td>
</tr>
<tr>
<td>354.</td>
<td>The Effectiveness of Consuming Fruit and Vegetable on Potassium and Blood Pressure in Overweight Youth</td>
<td>Mohammad Jaelani, Meirina Dwi Larasati, Yuniarti, Sunarto, Choiroel Anwar</td>
</tr>
<tr>
<td>356.</td>
<td>The Effectiveness of the (Healthy Physical-Skills) Exercises in the Development of Fitness and Balance as well as the Accuracy of Performing of Both the Skills of Preparing and Receipting of the Volleyball</td>
<td>Mohammed Dhayeamohammed, Tarik Dhayeamohammed, Rawaa Abdulkareem Farhan</td>
</tr>
<tr>
<td>357.</td>
<td>Effectiveness of Health Educational Program on Nurses’ Knowledge Concerning of Developmental Hip Dysplasia at Al-Wasiti Teaching Hospital in Baghdad City</td>
<td>Mohammed H. Burhan, Khatam M. Hattab</td>
</tr>
<tr>
<td>358.</td>
<td>Relationship of K3 Training and K3 Supervision with Sop Compliance in Building Workers (A Case Study of Surabaya Bridge Infrastructure Project)</td>
<td>Nabylla Sharfina Sekar Nurriwanti, Noeroel Widajati</td>
</tr>
<tr>
<td>359.</td>
<td>Factors Affecting the Occurrence of Stunting in Indonesia</td>
<td>Nailul Izza, Windhu Purnomo, Mahmudah</td>
</tr>
<tr>
<td>360.</td>
<td>A Study of Job Burnout among Faculty Teacher at Kirkuk University</td>
<td>Nashwan Nadhim Hasan, Faisal Youmus Sameen, Fakher Abobaker Ahmed Gli, and Kasim Sakran Abass</td>
</tr>
</tbody>
</table>
361. IL-18 -607 Gene Polymorphisms in Iraqi Obese Patients ................................................................. 1858
   Nawal Mohammed Utba

362. Correlation between Pain and Cone Beam CT Sialographic Finding in Chronic Inflammatory and
   Non-Inflammatory Conditions .............................................................................................................. 1864
   Nermien Ali Mohamed Fathy, Maha Eshak Amer

363. Factors Associated with Knowledge, Attitude and Behavior of Condom Use among Women
   Living with HIV AIDS ....................................................................................................................... 1870
   Nessy Anggun Primasari, Nursalam Nursalam, Ferry Efendi

364. The Role of Support Systems on Self-Acceptance in Chronic Kidney Disease Patients
   Undergoing Hemodialysis in Malang .................................................................................................... 1874
   Ni Luh Putu Suardini Yudhawati, Lilik Supriati, Titin Andri Wihastuti

365. Pathogenic Bacteria Associated with Acute Childhood Diarrhea and Their Susceptibility
   Profiling in Misan Province .................................................................................................................. 1880
   Nooralden Abdulkarem Jasim Al-Tulaibawi, Diana Basim Abdulhameed Al-Qaysi

366. Effect of Training Program on Unit Managers’ Mentoring Knowledge and Skills at
   Selected University Hospital–Egypt ....................................................................................................... 1885
   Nora Elsayed Mohammed, Magda Abd Elhamid A. Elfattah, Eglal A. Abd Elwahab

367. Samban/Tutulak and Immunization: The Sick Concept of Dayak Tribes in the Context of Modern Life
   1890
   Oedojo Soedirham, Ida Hastutiningsih

368. Predisposing Factors Related to the Contraception Use Plan in Women of Reproductive Age,
   East Java Indonesia ............................................................................................................................... 1896
   Pulung Siswantara, Iswari Hariastuti, Muthmainnah, Riris Diana R, Riana Bintang R

369. Effect of the Procedure of the Sweet Lupine Powder as an Alternative to the Camel Meat on the
   Quality and Sensory Characteristics of the Manufactured Burgers .................................................... 1900
   Qays Satwan Abass Abdullah, Kasim Sakran Abass

370. Climate Factors Improve Accuracy of Time Series Model for Dengue Hemorrhagic Fever
   Forecasting in Pasuruan Regency, Indonesia ........................................................................................ 1905
   Qurrotul Aini Meta Puspita Sari, Hari Basuki Notobroto, Mahmudah

371. Immunological Profile of Iraqi Atopic Patients .............................................................................. 1912
   Ranya H. Hussein, Ekhlss N. Ali, Ibtesam G. Auda, Suaad A. Brakhas

372. Visual Capabilities According to RehaCom Cognitive System as a Healthy Significance to
   Determine the Performance in Tennis .................................................................................................... 1918
   Rasul Hameed Mezher, Prof. Hisham HindawiHoweidi

373. Change Commitment and Change Efficacy of Public Health Center in Indonesia in Implementing
   Efforts to Improve the Quality of Health Services .................................................................................. 1923
   Ratna Dwi Wulandari, S. Supriyanto, M. Bagus Qomaruddin, Nyoman Anita Damayanti, Agung Dwi
   Laksono

374. Post Immunization Follow-up Events (KIPI) of Diphtheria Outbreak Response Immunization (ORI) in
   Health Office of East Java Provinical ................................................................................................... 1929
   Retty Yosiphine S., Fariani Syahrul
375. Evaluation *Eruca Sativa* Aqueous and Alcoholic Extract on *Fusarium Oxysporum* Growth .......................... 1933  
*Saba Hadi, Sundus Hameed, Shahad Ali, Isam Hussain T. Al-Karkhi*  

376. A Stereomicroscopic Analysis of Dentinal Micro Cracks after Root Canal Preparation  
Using Four Different Rotary Instruments .......................................................................................... 1939  
*Samar Abdul-Hamed, Rasha H Jehad, Zainab M. Abdul-Ameer, Jacob Al-Hashemi*  

377. Predictive Value of Spectral Waveform Indices; Intimal Medial Thickness and Lumen Diameter of  
Carotid Artery in Iraqi Diabetic and Hypertensive Patients ........................................................... 1945  
*Samar I. Essa, Ahmed Abduljabar Al-Sabbagh*  

378. Third Delay for Maternal Deaths in Maternity Hospitals in Baghdad .......................................... 1949  
*Sara Dhia Salman, Lamia Dhia Al Deen*  

379. Implementation of Food Safety for the Soft Drink Industry in Indonesia .................................. 1955  
*Sayyidatul Munawaroh, Dumilah Ayuningtyas*  

380. Improvement of Oral Health Knowledge and Behaviors by Oral Health Education for  
Multicultural Families in Busan ....................................................................................................... 1960  
*Se-Yeon Kim, Jung-Eun Ha, Min-Ji Kim*  

381. The Effectiveness of the Use of Propolis toward the Number of Polymorphonucleas Cells in Mice Wounds 1966  
*Shaerly Horax, Harun Achmad, Nurmala Dewi*  

382. Hazardous Effects of Lead (Pb) on Hematological and Biochemical Parameters in Awassi  
Sheep Grazing in the Najaf Center .................................................................................................. 1970  
*Shatha Atta Abeed, Ali Hussein Aldujaily, Nadia Abdul Hadee Abdul Ameer*  

383. Reproductive Risk Factors of Breast Cancer in Erbil ................................................................. 1975  
*Sherwan Aziz, Abdulqadir Zangana, Namir Al-Tawil*  

384. Effectiveness of CBCL/1,5–5 for Detection of Emotional and Behavioral Problem in  
Autistic Spectrum Disorder Children .............................................................................................. 1981  
*Sri Hartini, Sunartini, Herini E.S., Irwanto, Satoshi Takada*  

385. The Effect of Health Promotion Based on the Health Promotion Model with a Peer Group  
Approach Regarding the Utilization of Maternal and Child Health Handbook ............................ 1987  
*Sri Utami, Rekawati Susilaningrum, Nursalam*  

386. The Risk of Protein Deficiency and Breast’s Milk Complimentary on the Event of Stunting Children 1993  
*Sunarto, Enik Sulistyowati, Choiroel Anwar, Ali Rosidi*  

387. Effect of Using Coriander Seed Powder on *in Vivo* Digestion Coefficient, Total Volatile  
Fatty Acid and Some Blood Parameters on Awassi Lambs ................................................................. 1998  
*Sundus F. M., A. S. Rejab, A. Same, Z. Raid*  

388. Knowledge and Attitude Regarding Disaster and Emergency Preparedness among Hospital  
Health Care Workers in West Java Province, Indonesia ........................................................................ 2003  
*Suparni, Fatma Lestari, Ede Surya Darmawan, Robiana Modjo*  

*Svetlana Yuryevna Zavalishina, Vladimir Yurevich Karpov, Alexander Viktorovich Dorontsev, Eduard Nikolaeovich Kaldarikov, Roman Valeryevich Kozjakov*
390. Extraction, Purification and Genotyping of β–Lactamase from Local Isolate of Acinetobacter Baumannii 2013

391. Release of Fluoride in Saliva the Use Chewing Gums with Different Fluoride Compounds
NaMFP, SnF2 and Naf ......................................................................................................................... 2019
Thikra Ahmed Hassan, Hind Bahjat Mohammed Aldik, Abbas shebeb AL-Kadumi

392. “Go360”—A Fall Risk Assessment Smartphone Application for Older Adults ..................................... 2024
Thirumalaya Balaraman, Mohomodhossen Maysoon Hanaa

393. Determination of Mercury (Hg) Risk Level (RQ) with Exposure through Fish and Drinking Water Consumption in Bulawa Sub-district, Bone Bolango District, Gorontalo Province, Indonesia .................. 2030
Tya Nisvi Rahmadhani, Abdul Rohim Tualeka, Pudji Rahmawat, Syamsiar S Russen, Atjo Wahy, Ahsa, Siprianus Singga

394. Factor Affecting of the Diphtheria in East Java: Scoping Review .......................................................... 2036
Vema Aisya Rahma, Windhu Purnomo, Soenarnatalina Melani

395. Physiologically Based Approaches to the Rehabilitation of Scoliosis ...................................................... 2040
Vladimir Yurevich Karpov, Svetlana Yuryevna Zavalishina, Alexey Alekseevich Ryazantsev, IrinaVictorovna Nazarova, Alexander Mikhailovich Shulgin

396. Physical Rehabilitation of Girls with Neurocirculatory Dystonia ............................................................ 2045
Vladimir Yurevich Karpov, Svetlana Yuryevna Zavalishina, Alexey Vitalyevich Gusev, Viktor Ivanovich Shoragin, Elmira Shamilyevna Petina

397. Physiological Basis of Physical Rehabilitation of Athletes after Ankle Injuries ........................................ 2051
Vladimir Yurevich Karpov, Svetlana Yuryevna Zavalishina, Alexander Viktorovich Dorontsev, Konstantin Konstantinovich Skorosov, Dmitriy Anatolyevich Ivanov

398. Primary Appraisal Antiretroviral Adherence and Nonadherence among People Living with HIV (PLWH) 2056
Widia Shofa Ilmiah, Stefanus Supriyanto, Purwati, Mochammad Bagus Qomaruddin

399. Living with Stigma: The Experience of Tuberculosis Patients and Family Caregivers in Indonesia ..... 2061
Windy Rakhmawati, Kittikorn Nilmanat, Urai Hatthakit

400. Infections Risks of Medical Buildings: Perspectives Investigation in a Case-study ................................. 2066
Yasaman Parsia, Shahryar Sorooshian, Mohammad Panjehpour

401. Effect Pregnant and Non-Pregnant on Haematological and Biochemical Parameters of Qatari Goats in Iraq 2070
Yassen Taha Abdul-Rahaman, A. O. Humid, Hajir Shihab Hamad Al-Dulaimi

402. The Role of Preoperative Subconjunctival Bevacizumab on Recurrence Rate of Primary Pterygium . 2076
Yousif Farhan Dawood

403. Indicators of Parental Engagement and Health Promotion Behaviour in Caring for Children with Avoidant Restrictive Food Intake Disorder ........................................................................................................ 2082
Yoyok Bekti Prasetyo, Fransiska Pramaisela, Nur Lailatul Masruroh, Nursalam, Rahmat Hargono, Ahsan

404. Recovery Self Efficacy, Coping Strategy, Adversity Quotient and Resilience among Intensive Care Unit Nurses in Indonesia ........................................................................................................ 2087
Yulis Setiya Dewi, Nursalam, Nursalam, Rachmat Hargono, Rr Dian Tristiana
405. Determination of Sulfur Dioxide (SO₂) Safe Duration in Residential Population Around the Fertilizer Industry X in Indonesia
Yunita Tria Nur Latifa, Abdul Rohim Tualeka, Rois Solichin, Pudji Rahmawati, Syamsiar S Russeng, Atjo Wahyu, Ahsan

406. Does Gluten Free Diet and Delay in Celiac Disease Diagnosis Affect Dental Caries and Salivary Oxidative Stress in Children?
Zainab Qasim M. Al-Obaidi, Nada Jafer MH. Radhi

407. Study the Incidence of Acinetobacter Baumannii as a Nosocomial Pathogen
Wathiq Abbas Hatite Al-Daraghi, Saif Adel Al-Taliby

408. Isolation of Some Pathogenic Bacteria and Fungi From Student’s Mobile Phones (Part I)
Taghreed Khudhr Mohammed, Mohammed Abed Jwad, Ola Kamal, Ali Hafeedh Abbas, Ali Shallal Alababbas

409. Association of Genetic Polymorphism of GNB3 Gene in a Sample of Iraqi Arabs Patients with Type 2 Diabetes Mellitus
Sarah N. Majeed, Nagham E. Al-Essa, Najwa Sh. Ahmed

410. Association of Interleukin-6 Level with Some Clinical Parameters in Iraqi Juvenile Idiopathic Arthritis Patients
Sawsam Jassim Al-Harbi, Kareem Hameed Rashid, Maysaa Adil Hadi

411. Assessment of Alpha Ketoglutarate Dependent Dioxygenase Levels in Different Genotypes of ALKBH9 Gene in Patients with T2DM in Babylon Province
Mena Y. Abd, Hamzah H. Kzar, Manal M. Murad

412. Musculoskeletal Trends Over Physical Therapy for Curing Knee Injuries
Abdul-Samad Uleiwi Hassan, Rawiyah Abdulla Salman, Zahraa Falah Abd-Alaali

Hisham Hindawi Howaidi, Asead Ali Safih, Arshad Wisam Hasan

414. Effect of High Intensity Training Exercises in the Development of Some Explosive Capacity and Biochemical Indicators of Technical Gamma Players
Sarrraa Hasan Kawish, Sadeq Yousif Mohammed

415. The Effectiveness of Proposed Consensual Exercises to Correct the Error Associated with the Performance of the Layup Scoring Skill of Beginner’s Basketball
Omar Ahmed Mosleh, Ali Khalid Mukhlif, Qusay Rashid Sabti

416. A 4-Day Plaque-Regrowth Anti-Plaque Effect of a Combination of Green Tea and Salvadora Persica L.: A Randomized Controlled Crossover Clinical Trial
Rasha Salah, AN Mohammed, Hayder Raad Abdulbaqi

417. Some of Surrounding Environment Perceptions and its Correlation to the Psychological Flexibility of the Players of Babylon University Futsal
Amer Said Al-Khikani, Ayman Hani Abd Al- Jubouri, Alsajjad Abbas Mkhaab

418. Detection of Cytolysis Peptide Toxin Gene (Candidalysin) in Candida albicans Isolates
Sara K. Al-zubaidi
419. Effect of Active Learning on a Role-Playing Strategy in Improving Some Types of Handball Scoring 2163
Abdulabbas Abduljaleel Kareem, Asraa Yaseen Abdulkareem

420. The Impact of the Differentiated Learning Strategy on the Way of Learning Stations in Learning the Skills of Putting Down and Handling Football ................................................................. 2169
Emad Toma Radi, Raad Abdallah Kadem

421. Biofilm Formation and Antibiotic Resistance of Coagulase-Negative Staphylococci Isolated from Lactating Women with Mastitis in Baghdad, Iraq ......................................................... 2175
Batool Abd Al Ameer Baqer, Likaa Hamied Mahdi

422. Late Electrographic Seizures in Iraqi Patients with Stroke; The Role of Antiepileptic Therapy .......... 2181
Fizel Abbas Al-Himyari

423. The Spectrum of Resistant Respiratory Infection in a Group of Iraqi Patients with Chronic Lymphocytic Leukemia ...................................................................................................................... 2185
Waseem F. Al-, Hawraa D. Tuma, Jabbar S. Hassan

424. Genotyping of Ataxia-Telangiectasia Mutated (ATM) Polymorphisms in Patients with Breast Cancer 2191
Maryam Sabah Naser, Rabab Omran, Shakir H. Mohammed Al-alwany

425. STR Mutation at D13s317 Locus in 18D-V2.0 Powerplex Kit and 24 Loci Global Filter Kit in Paternity Match cases ....................................................................................................................... 2195

426. Anticancer Drugs as a Model for Destroying and Reducing the Growth of Human Breast MDA-MB231 Cancer Cells ..................................................................................................................................... 2200
Hanan M. Ali, Raghdan Hashim Mohsin, Murtadh F. Hassan AlKinani

427. Role of Some Enzymes in Early Diagnosis of Ovarian Cancer .......................................................... 2206
Tamara A. Subhi, Firas A. Hassan, Alaa Hussein j Al-qaisi

428. Antibacterial Activity of Zinc Oxide Nanoparticles and Poly (B-hydroxybutyrate)/ZnO Bionanocomposites Against Escherichia coli ........................................................................................... 2210
Zaman salman, Wejdan R.taj Al-deen

429. The Relationship between Postmenopausal Women and Some Hormonal Changes ....................... 2216
Kadhem Mohammed Sabae

430. Osteoporosis Knowledge and Osteoprotective Behavior among Female Patients Attending Dxa Clinic: A Cross-Sectional Study ........................................................................................................ 2220
Heba M. Attash, Harith Kh. Al-Qazaz, Layth A. Al-Hajjar

431. Isolation and Identification of Dermatophytes Causing Dermatophytosis in Hilla City, Iraq ............. 2225
Nibras AA Hindy, Abed-Ali A Abiess

432. Dental Plaque as a Probable Helicobacter Pylori Reservoir ................................................................ 2231
Muayad Mahdi kadhum, Hasanain Khaleel Shareef

433. Exploration of Potential Link between Prevalence of Irritable Bowel Syndrome and Seropositivity for Helicobacter Pylori ............................................................................................................. 2236
Hasanain Abdulnameed Odhah, Ahmed Fadhil Hashim, Douha Hassan Obaid, Ruba Samer Majeed, Omaima Abbas Habeeb, Nooralhuda Mohammed Abdalhadi
434. The Anti Inflammatory Effect of Pumpkin Seeds Oil in Treatment of Gingivitis; Clinical Study .......... 2241  
Ahmed Adel Othman, Muntaha Fawzi Saleh, Taif Mahdi Saleh

435. Relationship between Testosterone and Body Mass Index, Hirsutism, Alopecia, Acne, Type of Menstrual Cycle, and Levels of Interleukin-1β, Interleukin-17, Interleukin-27 and Interleukin-35 for Infertile Women with Polycystic Ovary Syndrome .................. 2245  
Sundus Fadhil Hantoosh

436. Assessment of TNF-a, IL-17, IL-33, TGF-b, and Dopamine in Iraq Depressed Women with Chronic Toxoplasmosis Infection ................................................................. 2252  
Maha mahmood shaker, Hazima Mossa Alabassi, Sabah A. Hameid A. Rahman

437. Down-Regulation of Circulating MicroRNA-205 as a Potential Biomarker for Distinguishing Prostate Carcinoma from Benign Prostatic Hyperplasia ................................................................. 2257  
Adel Mosa AL-Rekabi, Shoroq Mohammed AL-Temimi

438. Investigation of the MEP4 Gene of the Fungalysins Gene Family (MEP 1-5) in Isolated Skin Fungus from Primary School Students .................................................. 2263  
Abbas Abdul Hussein Mohi, Majid Kazem Al Shibli

439. Laboratory Administration of Clinical Trachoma Cases Caused and Ruled by Musa domesticain Mesopotamia ............................................................... 2269  
Abdul-Samad Uleiwi Hassan, Anaam Mehdi Dawood, Zahraa Falah Abd-Alaali

440. Evaluation of Neutrophils Activity and Function in Type II Diabetes Mellitus Patients’ Blood Samples 2272  
Huda Taher Ali, Weam S. Al-Hamadany, Salah Abd- Al kader Omran

441. The Effect of the Use of the Self-Programming Method in Cognitive Achievement and Learning the Handling Skills of Football Students .................................................. 2276  
Mohsen Mohammed Hassan, Ali Mohammed Jawad Al-Sayegh, Obeis Abed Wahid

442. The Level of Ambition and its Relation to the Cognitive Achievement of Students in Volleyball .......... 2281  
Hussein Abdel-Zahra Abdel-Yamah, Khalil Hamid Mohammed Ali, Hassanein Jabbar Rahi Asadi

443. The Effect of Stopping Training in Some Physical and Functional Variables and Sending Table Tennis 2287  
Marwan Abdulhamed Yousif, Zeyad Mishaal Farhan, Aarif Abdul Jabbar Hussain

444. Study of Variables in the Ratio of Creatine in the Blood of Short, Medium and Long Distance for Runners 2293  
Zaid Samsam Turki Sulyan, Mahmood dawood Salman, Saddam Mohammed Fareed Rageh

445. Molecular Investigation of Aminoglycoside Modifying Enzyme among Aminoglycoside-Resistant Uropathogenic Escherichia Coli Isolates from Najaf Hospitals, Iraq ..................................................... 2298  
Khadeeja Obaid Alm’amoori, Zainab Jaber Hadi, Ali Muhsin Almohana

446. Simulation of the Warfarin Drug-Binding Nano-Metal Induction for Serum Albumin .................. 2304  
Hasan Tuhmaz Hamad

447. The Creative Leadership of the Heads of Sports Clubs in the Middle Euphrates from the Point of View of its Members ................................................................. 2308  
Ahmed Faris Hadi Abd Ali, Saddam Mohammed Fareed Rageh

448. Inter-Pregnancy Interval and its Association with Autistic Children ............................................. 2312  
Hajir Salem Muhsen, Sijal Fadhil Farhood Al-Joborae
449. The Role IL-16 rs11556218 T/G Gene Polymorphism with the Risk of Osteoporosis in a sample of Iraqi Postmenopausal Women ................................................................................................................. 2318
Mohammad Shakir Atiya, Da'ad Ali Hussain

450. The Impact of the Educational Program on the Woods Model in Learning the Skills of Serve and Receiving Volleyball Students ................................................................................................................. 2323
Sahira Mohammed Abdulameer, Luma S. Hamoodi, Intisar Owaid Ali

451. Capability of Diffusion-Weighted Magnetic Resonance Imaging in Differentiating between Atypical Hemangioma and Malignant Lesions .................................................................................................................................. 2328
Ashwaq Khalil Hashim, Osamah Ayad Abdulsattar

452. Association of the 3'UTR188CT Polymorphism of Lectin-Like Oxidized Low Density Lipoprotein Receptor-1 (LOX-1) Gene with Risk for Acute Coronary Syndromes in a Group of Iraqi Population .. 2335
Amal Abbas Hammoodi Alsadi, Mohammed A. M. Albayatib, Moayed Basheer Hamid

453. Oxytocin Level and Depression Risk in Elderly Iraqi Population .................................................................................................................................. 2341
Noor K. Habash, Meena M. Abdul−Hussain, Khalid M. Jasim, Ammar L. Khazaal

454. Study the Activity of 14-3-3 Eta Protein among Ankylosing Spondylitis Patients .................................................................................................................................. 2345
May Yahya Al- Ma’amouri

455. Prevalence of Endodontically Treated Teeth in Baghdad Sub Population .................................................................................................................................. 2348
Nadeen Jamal Abdulredah, Farah Salahaldeen Abbas

456. Study the Inflammatory Biomarkers of Acute Coronary Syndrome Patients in Wasit Province .................................................................................................................................. 2352
Sama Ali Al-Rubaie, Mohammed R.S.ARI-Attabi, Alaa A. AL-Kinani

457. The Impact of Nd-YAG Laser on Salivary Streptococcus Mutans and Lactobacilli in Vitro .................................................................................................................................. 2358
Khamaal IM. Al-Hasnawi, Nada Jafer MH. Radhi

458. The Activity of 5-Flurouracil Metabolizing Enzyme Dihydropyrimidine Dehydrogenase(DPD) and its Association with Tumor Progression and Markers (CEA, CA19.9) in Patients with Colorectal Cancer 2363
Hadel Kareem Al-Rubaiawi, Raid J. Mohamed

459. Diagnostic Values of Complete Blood Count in Patients with Urinary Tract Infection .................................................................................................................................. 2368
Thekra Ahmed Hamada Al-Tikrity, Marwa Tariq Ahmed Al-Douri, Mohammed Mohsin Abdul- Aziz, Usama Mohmmad Abbas Al-Jebouri

460. Evaluation of CK20 and CD8 Tumor Markers in Patients with Colorectal Cancer by Using Immunohistochemical Technique .................................................................................................................................. 2374

461. Detection of Tn917 Carrying erm(B) Gene in a Clinical Isolates of S. pyogenes .................................................................................................................................. 2380
Hanan Raheem Hassooni, Hameed M. Jasim, Abbas Aboud Farhan, Adil Hassan Alhusseiny

Mohamed Sadiq Ahmed, Luay Azez Merhij, Ahmed Jarullah Abdullah

463. Effect of Closure of Peritoneum on Early Postoperative Outcome and Operating Time During the First Cesarean Section .................................................................................................................................. 2391
Suaad Rodan Shoelef
464. Doppler Finding in Renal Parenchymal Disease Correlated with Histopathological Finding .......... 2395
   Jinan Hussein Mohammed, Talib Atiyah Salman

465. Changes in Free-T3,T4 Thyroxine and Thyrotropin in Hemodialysis and Non-Dialysis Chronic
   Renal Failure Patients ................................................................. 2400
   Yasamin Abdul-Amer kadham, Dalal Abd Al-Sattar Asaad, Ali Shalash Sultan

466. The Culture of Terrorism Da’ashi and its Implications on Iraqi Society Medical Anthropology Study 2405
   Salwan Fauze Abed Al- Aoide, Habib Hashim Abid Ali

466. The Effect of Using Competitive Exercise in Motor Fitness and Speed of Transition for
   Football Players (Junior Class) ............................................................................................................ 2410
   Majid Mohammed Mukhlif, Fouad Hammad Asil, Mustafa Haopep Shallal

467. Effectiveness of Electromedian Exercises to Develop Visual Attention, Perception of the
   Environment and Reaction of Football Players ................................................................. 2415
   Asaad Ali Safih, Saba Shaker Farhan, Raafat Abdulhadi Kadhim

468. AgNps as Antibacterial Agent Against Klebsiella pneumoniae Isolated from Wond Infection .......... 2419
   Khamael H. Obaid

469. Study of Hepatitis C Virus (HCV) Genotypes in Al-Muthanna Governorate, Iraq ................. 2423
   Salam Allawi Hassan, Wisam Salih Abbood

470. The Impact of an Educational Field for the Development of Perceptual-Kinetics and Skill of
   Passing Cub’s Football .................................................................................................................. 2429
   Aban Abdul Kareem Mezher, Diaa Gaber Mohammed

471. The Impact of Compound Exercises in the Development of Some Perceptions of The Environment for
   Football Youth ............................................................................................................................ 2434
   Hussein Hamzah Najm, Diaa Gaber Mohammed, Hussein Salih Najm

472. Serum Levels of Lipocalin-2 and Prostate Specific Antigen in Patients with Prostate Cancer;
   A Comparative Study ................................................................................................................... 2440
   Karwan A. Muhammad, Khudhiar A. Khudhiar, Salam S. Ahmed

473. Practicing, Attitudes and Beliefs of Physicians at Al-Emamain Medical City towards
   Seasonal Influenza Vaccination ................................................................................................. 2445
   Nibras Alaa Hussain, Berq J. Hadi Al-Yasseri

474. The Effect of Learning Style by Playing Directly in Learning the Skill of Passing Football at the
   Age of (13-14) Years .................................................................................................................... 2451
   Ali Qais Habeeb Majeed, Samer Abdulhadi Ahmed, Ahmed Murtada Abdulhussain

475. Prevalence of Cutaneous Leishmaniasis in Babylon Province, Iraq ................................... 2456
   Alaa Jabbar Tahama AL-Jubbouri, Hayam Khalis Al-Masoudi, Wessam Ali Amin

476. Accurate Scoring According to the Brain Sovereignty of Handball Players ........................... 2462
   Ali Hussein Ali, Amer Hussein Ali, Mohammed Oudah Zaal

477. Audio Skills and Their Impact on the Development of Response Speed for Handball Goalkeepers .... 2467
   Asaad Ali Safih, Raafat Abdulhadi Kadhim, Saba Shaker Farhan
478. Academic Personality Assessment Form for Fourth Stage Students Faculty of Physical Education and Sport Sciences Karbala University ................................................................. 2472
    Hassain Ali Hussein, Ammar Hasan Abdal Redha, Ali Noaman Trad

479. Self-Organized Learning Strategies and their Relationship to the Complex Thinking of Kindergarten Students ................................................................. 2477
    Nour Sabbah Lafta, Iman Abbas Ali AL-Khafaf

480. The Impact of an Accelerated Learning Program on the Development of the Skill Level of Snatch Punch for Boxing Students ................................................................. 2482
    Mohammedhussein Hayder Hamuwd, Wissam Salah Abdul Hussein, Samir Abdul Hady Ahmed

481. Selective Screening of Inborn Errors of Metabolism in Baghdad Al Karkh/Al-Ielam Sector ........................................ 2487
    Mithal Abdulkareem Abdoun, Raghad abd ulkareem

482. The Impact of Adding Silanated Pearl Powder on Some Properties of Heat Cured Acrylic Denture Base Material ................................................................. 2492
    Safa G. Dekan, Raghdhaa K. Jassin

483. The Skill of Personal Effectiveness and Management of the Profession as a Function to Predict the Adequacy of the Management of the Game for Volleyball Coaches ................................................ 2499
    Oras Neamah Hasan, Kadhim Habeeb Abbas, Saeed Hussein Hasan

484. Toxic Effects of Sodium Benzoate on the Rat Testes ........................................................................ 2505
    Ban Thabit Al-Ani, Rana R. Al-Saadi, Hikmat Fakhri Wassef

485. Investigation the Role of Lactobacillus ssp. on Entamoeba histolytica Pathogenesis ........................................ 2511
    Zainab Sameer Sabti, Shatha Khudaier Abbas, Nibras Nazar Mahmood

486. Estimation the Level of Survivin in the Serum of Iraqi Patinet with Gallbladder and Liver Disorders . 2517
    Mohammed Kadhim AL-Kafajee, Zainab Thamer Showait AL- Asady

487. The Effect of Socioeconomic Level on Dental Caries among Preschool Children in Baghdad City ...... 2522
    Mariam F . Abo Nayla, Athraa M. Alwaheb

488. The Effect of Mouth Wash Containing Alcohol on Force Degradation of Colored Elastomeric Chains 2527
    Reem Atta Rafeeq Al-Ani

489. Serum Levels of Adrenomedullin in Women with PCOS before and after Rosuvastatin Treatment ...... 2534
    Mohammed T. Dawood, Salam S. Ahmed, Hassan K. Rajab

490. Training According to The Required Calories as a Function of Muscular Work and its Impact on the Development of Some Physical Abilities and the Achievement of Long Distances Running 5000 Meters 2539
    Nabeel Muttlak Nasser, Suhail Jassem Almsalmawi, Maher Abdulhamza Hardan Al Alwani

491. Indications of Intra-Vitreal Anti-VEGF ................................................................. 2545
    Zeena Adnan Abd

492. Sera Troponin-I Levels in Rheumatoid Arthritis Patients ................................................................. 2550
    Mayada Noori Iqbal

493. The Effects of Obesity and Mothers’ Education Levels on the Periodontal Health Status of Iraqi School-Aged Children ................................................................. 2557
    Maitha Sameer Kadhim, Basma Fathi Alanbari, Sanaa Rasheed Abd Al-Aloosi, Mohammed Jasim AL Juboori
494. Comparison of Anti Mullerian Hormone in Working Women with Different Social Class in Babylon City, Iraq ................................................................. 2563
   Hanan Abdul Jabbar Al-Taee

495. Role of Interleukin-12 Cytokine in the Cellular Response to Mycobacterial Disease .............................................................. 2567
   Raafat M. AL-Enzi, Jawad Kadhim Tarrad, Moshtak A. Wtwt

496. Impact of Breast Feeding Duration on the Presence of Candida in Relation to Nonnutritive Sucking Habit among Group of Iraqi Children ..................................................... 2570
   Ohud Faik Taha, Aseel Haidar M. J. Al Haidar

497. The Occurrence of Certain HDV Genotype in Patients with Chronic Hepatitis and Hepatocellular Carcinoma ....................................................... 2575
   Nawfal Saeed Amen, Dawood S. Dawood, Safaa Abd Alrazaq

498. Organizational Loyalty and its Correlation to the Creativity of Members of the Federations in Tennis Games in Iraq ................................................................. 2581
   Munaf Abdulazeez Mohammed, Anees Hussein Ali, Ali Mohammed Jawad Al-Sayegh, Hayder Naji Habash Alshawi

499. Leechees Review: Biology, Ecology and Medical Important ................................................................. 2586
   Nebrass Faleh, Zaid Naji Hassan, Maan Abdul Azeez Shafeeq

500. The Personality of the Obsessive and Their Relation to the Motivation of Achievement of Volleyball Players ................................................................. 2591
   Hameed Shamkhi Ghazi

501. Building the Predictive Scale for the Psychological Efficiency of the Athletes Students at Al-Furat Al-Awsat Technical University ......................................................... 2596
   Hameed Shamkhi Ghazi

502. Lymphocytosis and Increases in Complement Protein C3 Level in Women with Polycystic Ovarian Syndrome ......................................................... 2602
   Sahlah Kh. Abbas, Aseel Sh. Abdullah

503. The Prevalence of PCOS in Infertile Women According to Clinical Features and its Associated Hormonal Changes in Al-Hilla City, Iraq ........................................ 2607
   Ban Amer Mousa

504. The Role of Minimum Fluid Requirement Post Laparoscopic Cholecystectomy in Comparison to Open Cholecystectomy ................................................................. 2612
   Al-Shammari AJ, Al-Zubaidi SA, Al-Zubaidi SA

505. Estimation of the Efficacy and Safety of Totally Real-Time Ultrasonography-Guided Percutaneous Nephrolithotomy: A Single Center Study ........................................ 2618
   Ahmed Abdul Ameer Alwan, Ahmed Hamza Abd, Hussain T. Ajeel

506. The Effect of the Use of Parachutes and Gloves in Some Kinetic Variables and the Completion of a Swimming Pool (50M) Free for the Armenian Club ........................................ 2622
   Tabarek Mohammed Salman, Nada Mohammed Ameen, Mawahib Hamid Al-Jubouri

507. The Impact of Problem Solving Strategy in Developing the Technical Performance and Accuracy of the Skill of the Serve Facing from the Top (Tennis) Volleyball for Students ........................................ 2627
   Nuha Yousef Hashem Abbas, Rawa Allawi Kazim, Mahmoud Nasser Radi
<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
<th>Authors</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>508</td>
<td>Effect of Battle Ropes Training in Some Components of Health Fitness and Vision of the Body</td>
<td>Raghda Hassan Ibraheem, Sahira Razzaq Kadhem, Suhad Qassim Saeid</td>
<td>2633</td>
</tr>
<tr>
<td>509</td>
<td>The Cytotoxic Effect of Zinc Oxide on Colon Cancer Cell Lines in Vitro</td>
<td>Shihab Ahmed Jasim, Nihad A. Saleh</td>
<td>2638</td>
</tr>
<tr>
<td>510</td>
<td>Comparison between WBCs, RBCs and HGH Levels for Iraqi AML Patients Pre and Post 3- and 7- Treatment within Four Age Groups Segmented Based on Growth Levels</td>
<td>Ishtar Imad, Abdulameere N. Ghaloub, Mehemt Ozaslan, Alaa F. Alwan</td>
<td>2643</td>
</tr>
<tr>
<td>511</td>
<td>The Relationship between Peak Systolic Velocity of Thyroid Gland Arteries and Thyroid Stimulating Hormone Level in Diffuse Goiter Patients</td>
<td>Laith F. Farman Al-Hialy, Mohammed A. Mahmood</td>
<td>2648</td>
</tr>
<tr>
<td>512</td>
<td>The Role of microRNA 122, MCP-1 and TGF-β1 as Diagnostic Biomarkers for Endometriosis</td>
<td>Ekhlas Saddam Falih, Suhad Hassan Aubaid, Wala’a Taha Yousif</td>
<td>2652</td>
</tr>
<tr>
<td>513</td>
<td>Assessment of Health Related Quality of Life in Children with Nephrotic Syndrome in Iraq— A Comparative Study</td>
<td>Uday Khalid Abdul Jabbar Al Qaisy, Shatha Hussain Ali, Iyad Hussein Ali</td>
<td>2657</td>
</tr>
<tr>
<td>515</td>
<td>The Relation between Some Genetic Traits (Ptc Tasting, Tongue Rolling, Earlobe Attachment and Dental Occlusion in Iraqi Adults</td>
<td>Jinan E. Saloom, Sami K. Al-Joubori, Sara M. Al-Mashhdany</td>
<td>2668</td>
</tr>
<tr>
<td>516</td>
<td>Combination of Gold Nanoparticles Conjugated Lectin and Using it for Development the Antibacterial Activity of Lectin Purified from Acinetobacter baumannii</td>
<td>Sahira Nsayef Muslim, Alaa Naseer Mohammed Ali</td>
<td>2674</td>
</tr>
<tr>
<td>517</td>
<td>Functional Neurological Disorder at Al-Diwaniyah Teaching Hospital</td>
<td>Sahar Albermany, Abdul-Zahra Al-Khafaji, Rose Jihad Kadhim</td>
<td>2680</td>
</tr>
<tr>
<td>518</td>
<td>Immunogenetic Study of Pediculus humanus capitis Associated with Typhus Fever in Iraqi Patients</td>
<td>Salah Mahdi Hassan, Youmor M. Jameel, Abdulrazzaq Neamah Zghair, Nazar Sh. Mohammed</td>
<td>2686</td>
</tr>
<tr>
<td>519</td>
<td>Impact of Dental Caries on Quality of Life of Primary School Children aged 8-10 Years in Al-Najaf City, Iraq</td>
<td>Zahraa M. Alshmaa, Athraa M. Alwaheb</td>
<td>2690</td>
</tr>
<tr>
<td>520</td>
<td>Purification of Protease from Aspergillus fumigatus</td>
<td>Thakra Ahmed Hamada, Hadeel Mizher Youmus, Raghad Saad Abdulkareem</td>
<td>2696</td>
</tr>
<tr>
<td>521</td>
<td>Using a Proposed Program to Develop Some Physical and Motor Abilities for Students with Slow Learning</td>
<td>Ali Khalid Mukhlif, Basim Obaid Moharib, Mustafa Habib Shalal</td>
<td>2702</td>
</tr>
<tr>
<td>522</td>
<td>The Effect of Learning Exercises Through Flexible Circles on Learning Some of the Composite Skills of Futsal Football for Students</td>
<td>Mazin Hashim Hammood, Rashad Tarek Yousef</td>
<td>2707</td>
</tr>
</tbody>
</table>
523. Effects of Special Exercises on the Sand on Some Blood Cells, Heart Measurements and Physical Abilities of Advanced Futsal Players ................................................................. 2713
Adnan Ghethan Digham, Ameen Khazal Khazaie

524. The Impact of an Educational Program According to the Model 4MAT to Learn the Skill of Attack in Numerical Epee for Students Fencing ................................................................. 2718
Zahraa salim Hussain, Wissam Salah Abdul Hussein, Amer Hussein Ali

525. Efficacy of Nano-Hydroxyapatite on Enamel Surface of Primary Teeth Following Exposure to Liquid Medications in Comparison with Sodium Fluoride: An in Vitro Study .................................................... 2722
Hassan NM, Jafar ZJ

526. Effect of Orthodontic Force on Salivary Levels of Lactate Dehydrogenase Enzyme ........................................ 2728
Suha Ali Abdul Ameer, Akram Faisal Alhuwaizi, Hayder F Saloom

527. Effect of Staining and Brushing on the Surface Roughness of White Spot Lesions Treated with Resin Infiltration Technique .................................................................................. 2734
Karar M. Hussein, Abdulla M.W. Al-Shamma

528. Evaluation of Salivary Melatonin and Periodontal Parameters in Type II Diabetic Patients with Chronic Periodontitis: A Comparative Study .................................................. 2740
Rusul Subhi Hassan, Suzan Ali Salman

529. The Role of Extracellular Superoxide Dismutase (Ec-SOD) Gene Polymorphism in Motor Neuron Damage of Type 2 Diabetic Peripheral Neuropathy Patients of Babylon Province-Iraq ........................................ 2746
Haider K. Zaidan, Asma’a H. Mohamed, Ali H. Al-Saadi

530. The Value of Metformin in the Treatment of Hidradenitis Suppurativa in a Cohort of Iraqi Patients .... 2752
Asmaa abdulJaleel Swadi, Akeel Hamed Jabur

531. Design and Implementation of Physiology Lab Management Blood Analysis System .................................. 2757
Ahmed Saleem Abbas, Awfa Hasan Dakheel, Ali Hasan Dakheel

532. The Effectiveness of the Model of Active Thinking in the Collection of History and Creative Thinking among Students of the Fifth Grade Literary ......................................................... 2764
Doaa Abdel Karim Rahim, Jinan Mohammed Abdul Jassim, Anas Hamza Aljilawi

533. Effectiveness of an Educational Program on Nurses Knowledge about Chemotherapy Hazards at Al-Habbobi Teaching Hospital in Al-Nasiriya City ......................................................... 2769
Hussein Kadhim Abd Ali, Wissam Jabar Qassim

534. In Vitro Assessment of Some Properties of Biocompatable Polymer Dental Implant Consisting from Poly Ether Ketone (Peek) and Silicon Carbide Nanofiller ................................................................. 2772
Mustafa Mahdi Jassim, Thekra Ismael Hamad

535. Occurrence of Asymptomatic Bacterial Urinary Tract Infection and Susceptibility Profile among Students of Medical Technical Institute-Baghdad ......................................................................... 2778
Najah Ali Mohammed

536. Prevalence of Levels of Examination Anxiety among Undergraduate Students of the Colleges of University of Thi-Qar, Iraq ..................................................................................... 2784
Rasha Dakhel Abdullah, Maan Hameed Ibrahim Al-Ameri
537. Influence of the Cross Linking Agent “Proanthocyanidins” on the Push-Out Bond Strength of Fiber Posts Cemented with a Self-Adhesive Resin Cement .......................................................... 2788
   Hamid Kasim, Abdulla M.W. Al-Shamma

538. Effectiveness of Instruction Program on Pregnant Women’s Practices regarding Anemia at Primary Health Care Centers in Baquba City ........................................................... 2793
   Qadessia Mahmoud Dawood, Rabea Mohsen Ali

539. Knowledge of Iraqi Midwives and Nurses about Hepatitis C Virus at Maternity Hospitals in Baghdad City 2798
   Hawraa Hussein Ghafel

540. The Impact of Strategic Defense in Attainments and Growing the Mind Thinking for the Students ..... 2804
   Qais Talib Abdul-Zahraa, Firas Saleem Hayawi, Hamdan Mahdi Abbas Al-Juburi

541. Assessment Nurse’s Knowledge toward Nursing Management for Patients Post Cholecystectomy in Kirkuk City Hospitals ................................................................. 2809
   Tholfikar Haider Selman Hussein, Khalida Muhammad Khudair

542. Cholinesterases Activities in Diabetic and Hyperlipidemic Patient ................................................. 2812
   Ahmed A.J. Mahmood, Musab M. Khalaf, Adnan A. Zainal

543. The Impact of the Formal Strategy of the Theory of Cognitive Burden in Acquiring the Concepts of Middle School Students ................................................................. 2817
   Nada Khudair Ali al-Shammari, Hamdan Mahdi Abbas al-kraee, Abbas Karim Abd al-Khafaji

544. Effect of Black Seed Oil on Some Physiological Parameters in Female Rats Treated with Aflatoxin B1, B2 2822
   Athraa Harjan Mohsen, Israa Harjan Mohsen

545. Rehabilitation Program Impact in the Treatment of Injury to the Cruciate Ligament of the Knee Joint Care of Five Players Lounges ...................................................... 2828
   Nagham Salman, Aseel Naji

546. The Proportion of the Contribution of Some Muscular Capabilities of the Arms to the Accuracy of the Performance in Foil ................................................................. 2833
   M. M. Mohamed Qais Mubder, Noor Hatem, Kamil Malykh Hussein

547. The Impact of the Strategy of the Three-Step Interview in the Rugby Thinking and the Accuracy of the Performance of the Skill of Students .................................................. 2838
   Fadya Abdul-Hussein Kadhim, Nihad Mohammed Alwan

548. Measuring the Therapeutic Calendar of the Elbow Joint According to the Rate of Change of Rehabilitation Exercises ................................................................. 2843
   Dr Imad Kadem Yasser, Dhulfiqar Ali Abdul Hussein

549. Effectiveness of an Instructional Program on Promoting Lifestyle of Patients with diabetes Mellitus type 2 at Diabetes and Endocrinology Center in Missan City ......................................... 2848
   Sarah Falah Hassan, Khalida Alwan Mansur

550. Outcomes of Laparoscopic Appendicectomy in Al-Diwanyiah Teaching Hospital ...................... 2854
   Zaman Alrekabi, Muayad Alkafaji, Shakir Abid Jassim

551. Thyroid Hormone Changes in Early Pregnancy Bleeding Versus Normal Healthy Pregnancy .......... 2859
   Samah Radhi Lateef
552. Impact of Danger Signs During Pregnancy Upon Pregnancy Outcomes among Pregnant Women in Al-Diwania City ......................................................................................................................................................................................... 2865
   Fatima S. Baker, Hala S. Abdulwahid

553. The Exercises by Limbs Efforts Unilateral Bilateral and its Impact on Indicators of Electrical Activity Muscular Capacity and Long Pass of Football to Reduce Bilateral Deficits for Young Players 2870
   Khalid Oudah Gshayyish, Habeeb Shaker Jebur, Riyadh Hassan Salah

554. The Kinetic Compatibility of the Upper and Lower Limbs and their Relation to the Skill Level of Tennis for the Emerging Players ......................................................................................................................................................................................... 2875
   Wafaa Faeq Hammoodi, Aseel Naji

555. Serum Lipid Profile in Healthy Collegian Women During Consumption of 25 and 13 G of Ukrainian Walnut 2879
   Noran Jameel Ibraheem, Ghadeer Hamid AL-Ardhi

556. The Association between (CT60) Cytotoxic T-lymphocyte Antigen-4 Gene Polymorphism with its Plasma Levels in Alpecia Areata Patients ......................................................................................................................................................................................... 2882
   Sarah Isam Al-Rubaye, Abdulsamie Hassan Alta’ee, Zena Saeed Al-Fadhily

557. A Study for Detection the Causes of Vaginal Bleeding in Pregnant Women at 1st Trimester in Bint al-Huda Teaching Hospital at al-Nasiriyah City, Iraq ......................................................................................................................................................................................... 2886
   Doaa Sami Rashash, Sinaa Saber Kadhim, Wahran Hassan Mohammad

558. Analysis of Meiotic Genes Under Different Temperatures ......................................................................................................................................................................................... 2892
   Zena Faris Alwash

559. Using the Level of Serum YKL-40 as an Indicator to the Pathogenesis of Allergic Asthma and Helminths Infection ......................................................................................................................................................................................... 2898
   Narjis Abdul Rahman Oudah, Kareem S. Chead Al-Tea, Ahmed A. Mohammed

560. Assessment of Anxiety Level among Women Prepared for Cesarean Section at Babylon Hospitals .... 2905
   Ali A. ALHatab, Amina Abd AL-Hassan Jabur, Tabark Sattar Skhail, Diyar Ghaleb Abdul Kadhim, Zahraa Fouad kadhim, Khalid Salman Abdul Sada

561. Biofilm Producing by Staphylococcus aureus and Lactobacillus spp. Isolated from Urogenital Tract Infections of Women ......................................................................................................................................................................................... 2909
   Oruba K. Al-Bermani, Zainab H. Alsaadi

562. The Impact of Reading Comprehension Skills and building Standards Typical according to Thinking Creative ......................................................................................................................................................................................... 2914
   Hind Abd-AL Reeda, A. M. D Riyad Hatif, Mohamed Abd -AL Hassan

563. The Impact of Teaching Critical Thinking Skills to Develop the Habits of Mind for Students .......... 2918
   Alaa Abduladeem Abdulabbas, Muna M.A. Al-Khateeb

564. Investigation of Bioactive Natural Compounds of Diploptaxis cespitosa Using FTIR Spectroscopic Profile and Evaluation of its Anti-Bacterial and Anti-Fungal Activity ......................................................................................................................................................................................... 2923
   Amenah Kadhim Murad, Ali Hussein Deman Al-Khafaji, Imad Hadi Hameed

565. Detection of Bioactive Compounds of Celosia argentea Using Fourier-transform Infrared Spectroscopic Profile and Evaluation of its Anti-fungal Activity ......................................................................................................................................................................................... 2930
   Abeer Fauzi Al-Rubaye, Lena Fadhil Hamza, Imad Hadi Hameed
566. In vitro Antimicrobial Activity of Methanolic Extract of *Apium graveolens* ........................................ 2936
  Lena Fadhil Hamza, Ameer Ibrahim Abdulzahra, Imad Hadi Hameed

567. *ACE gene* Polymorphism on Diabetic Type 2 Patients and their Susceptibility to Diabetic Nephropathy 2942
  Alaa Shakir Al-Nahi, Murtadha Jawad Al-Barqaawee

568. The Epidemiology of Hepatitis a Virus in Iraq ................................................................. 2948
  Nisreen Kaddim Rady, Tsahel H. Al-Dulaimi, Amal Raqib Shamran

569. Assessment of Nurse Midwives Knowledge Regarding Nursing Care of Post- partum Hemorrhage at 2952
  Al-Najaf AL-Ashraf City Hospitals ........................................................... 2952
  Hanan N. Mohammad, Muna A. Khaleel

570. Measurement & Evaluation of the Method of Quantitative Correlation Related to the Development of 2957
  Some Types of Volleyball Reception Skill ............................................................... 2957
  Ali Khalif Ali, Imad Kadem Yasser

571. Effect of Gold Nanoparticles and Laser on Platelet, Lymphocytes, and White Blood Cells ........... 2962
  Lamees. A. Abdullah

572. Study the Levels of Thyroid Hormones in Graves’ Disease and Impact on Leptin and Resistin Levels 2966
  Sara J. Kadhim, Raghd Alsayed, Alaa Hussein J. Al-Qaisi

573. Effect of Plant Alkaloids on Some Pathogens ................................................................. 2970
  Aseel Mohammad Omran, Heyam G.Al Mousavi, Rasha hadi Satih

574. Bacterial Contamination of the Local Available Ice Cream in Hila City ............................... 2976
  Sura I. A. Jabuk, Dhurgham A.A. Al-Sultany, Kadhim Kh. Hashim

575. The Effect of Training Loads and its Relation with Happiness of Volleyball Players in Al-Qasim 2981
  Sport Club Under the Maximum in Some Physical Variables and Serotonin ........................ 2981
  Aied Kareem Abdaun, Abdulrhman Jameel Ghadhab Al-Saadi, Harith Abdul Elah Abdul Wahid

576. Risk Assessment and Heavy Metal (Cu and Ni) Contamination in Sediments of Shatt Al-Arab Canals, Iraq 2986
  Abeer Ghazie Al-Sawafi

577. Mean Shift and Enhancement Contrast Based Technique to Extract Lung Abnormalities in CT Scan Images 2992
  Hussein Saadi Kareem, Rabab Saadoon Abdoon

578. Medical Applications and Role of Stability on Quantum Dot Semiconductor Lasers with Positive and 2997
  Negative Optoelectronics ................................................................................................. 2997
  Rajaa Hussein Abd Ali, Basim Abdullattif Ghalib, Rabab Saadoon Abdoon

579. Serum Zinc Level in Children with Relapsing Nephrotic Syndrome ........................................ 3003
  Jasim Mohammed Hashim, Khadum Abd Alhussein Jabur

580. The Impact of the Strategy of Lists Focused on the Achievement of Second-Grade Students in Science 3008
  Iman Abbas Rasool, Saeed Hussein Ali Thalab, Sana Salem Najm

581. Reliability of Salivary Alpha Amylase as a Biomarker of Obesity .......................................... 3013
  Zainab Hadi Kamil, Kareem Hameed Rashid

582. Infertile Women’s Knowledge Regarding Adverse Effect of Invitro Fertilization Treatment ........ 3018
  Zainab Saddam Humadi, Iqbal M Abbas
583. The Impact of Science Knowledge and Program for Developing the Predictive Skill ............................... 3023
   Ameer Abdulhussein Jameel Shaban, Mushrig Mahmood Mujweal, Asaad Mohamed Ali ALNajjar

584. The Impact of Reading Strategy Knowledge and Science Knowledge on Developing Reading Skills of School Students ................................................................. 3028
   Rana Kadhim Rahoomi, Sabeeha Hamza Dehham, Muhataram Abid Al-Wahid

585. Aluminum Chloride Induced Behavioral and Physiological Changes in Adult Male Rats 3032
   Halla Abdul–Hadi CHabuk, Hussein Jasim Al-Harbi, Haider Kamil Zaidan Al-Saadi

586. Physiological and Behavioral Changes of Male Rats Following Social Isolation Stress During Early-Adolescence and Fluoxetine Exposure ........................................... 3037
   Halla Abdul–Hadi CHabuk, Haider Kamil Zaidan Al-Saadi, Hussein Jasim Al-Harbi

587. Effect of Competitive Exercises and Hospitalization with Salt Lipson to Develop Performance Tolerance and Some Biochemical Variables for Young Handball Players .............................................. 3042
   Baha Mohammed Taqi Al-Musawi, Ali Basim Al-Fadhli

588. Immunological Base Behind the Increased Susceptibility of Diabetic Patients for Infections .......... 3047
   Ifiad Kerim Al-Shibly, Mohammed Hassan Alhamdany, Rand Ahmed Imran Al-Kaif, Laith A.I.K. Al-Kaif

589. The Infection of Child with (Dysgraphia Dyspraxia Problems Related to Language, Perception and Thought, and Affect Fine Motor Activities, Such as Pen-Holding disease Related to Language, Perception and Thought, and Affect Fine Kinetic Activities .................................................. 3052
   Safaa Ataar Habeb, Imad Hussein Obed, Aqeel Khaleel

590. Socio-Demographic Determinants of Multiple Health Risk Behaviors among School Adolescents in Kurdistan Region, Iraq ................................................................. 3057
   Attallah Omar Qasem, Tariq Salman Al-Hadithi, Namir G. Al-Tawil

591. Evaluation of Knowledges, Attitudes, and Practices of Breast Self-Examination of High School Female Students in Al-Diwaniyha City ................................................................. 3062
   Zainab Jaber Abed, Wissam Jabbar Qassim

592. Comparison of the Cyclic Fatigue of Protaper Next, 2Shape and Hyflex EDM Using Glyde .......... 3068
   Noor Salman Nadhum, Shatha Abdul-Kareem, Omar Bakr Hazm, Shatha Al-Hamrany

593. Assessment of Knowledge and Practices of Pregnant Women Toward Antenatal Care Services at Primary Health Care Centers in AL Hila-City ................................................................. 3072
   Noor Al-Huda S. Skel, Muna A. Khaleel

594. Evaluation of Echocardiographic Parameters in Patients with White Coat and Masked Hypertension Detected by Ambulatory Blood Pressure Monitoring ................................................................. 3076

595. The Role of Salivary Cortisol and Mutans Streptococci in the Development of Early Childhood Caries 3081
   Abeer A. Yahya, Aseel H. M. J. Al-Haidar, Abbas S. Al-Mizaqchi

596. Association between Family Cohesion and Mental Health–Related Quality of Life for Secondary School Students in Amara City ................................................................. 3087
   Raad Hashim Zamin Al-Maryani, Kareem R. Sajit

597. Effects of a Comprehensive, Multiple Health Risky Behaviour Prevention Program on the behaviour of High School Students in Kurdistan Region-Iraq: A quasi-Experimental Study ................................................................. 3092
   Attallah Omar Qasem, Tariq Salman Al-Hadithi, Namir G. Al-Tawil
598. Comparison of Fracture Resistance of CAD/CAM Interim Dental Bridge and Conventional Interim Resin Dental Bridge .......................................................... 3098
   Alaa Hussein Jasim, Lateef Essa Alwan, Akhlas Zeid Abood

599. Prevalence and Some Epidemiological Symptoms of Molluscum contagiosum Virus Infection in Al-Najaf Province ................................................................. 3105
   Ebtehal Edrees Shubbar, Huda Jameel AL-Khilkhali, Nawras Alwan AL-Barqawi

600. The Role of Hyperglycemia and Coexisting Hypertension in the Development of Diabetic Nephropathy in Type II Diabetes Mellitus .......................................... 3110
   Kadhim Abbas Al-Hilali, Mosa Jaafar Mosa, Ahmed Ali Hussein

601. Emotional Duality in Preparatory School Teachers .............................................. 3116
   Ali Hussein Al-Maamouri, Shaimaa Majid Hameed

602. *Malva parviflora* and *Medicago sativa in vitro* Anti-fungal Activity and Bioactive Chemical Compounds of Using FTIR Spectroscopic Technique ........................................ 3121
   Lena Fadhil Hamza, Sanaa Hasan Abdalakhwa, Imad Hadi Hameed

603. Pharmacognostical Study and Antibacterial Activity of Cardio Active Glycoside of Iraqi Yellow Oleander (*Thevetia Peruviana* L.) ................................................................. 3128
   Hayder Yousif Falih, Noor Mohsen Nasser, Thamer Mouhi Jasiem

604. Phylogenetic Profile of *Staphylococcus aureus* mec A and *ica* A genes Associated with UTI Patients .. 3132
   Ahmed A. R. Abbas, Saad S. Hamim
Redesign of the Traditional Handloom for Sarong Female-Weavers Based on Anthropometric Data

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Abstract

Introduction: Poor working posture due to non-ergonomic handloom design might be a cause of musculoskeletal disorders (MSDs) in Samarinda Sarong weavers.

Objectives: This study describes the inconsistency of the present handloom used with weaver anthropometry data and presents a new design of handloom based on anthropometric dimensions.

Method: An anthropometric survey was carried out to determine the anthropometric dimensions of 50 female weavers. The existing handloom dimensions were also measured. The data were analysed using descriptive statistics (min., max., mean, median, mode, standard deviation and 5\textsuperscript{th}, 50\textsuperscript{th} and 95\textsuperscript{th} percentiles), as well as distribution and uniformity. The Indonesian Standard for Workstation Design (ISWD) was used to redesign the chair and table of the traditional handloom.

Results: The traditional handloom dimensions were found to be incompatible with the body dimensions of the female weavers. This suggests that the weavers MSD exhibited could be due to this incompatibility. Based on the anthropometric data collected, we have redesigned the traditional handloom.

Conclusions: The anthropometric data of the Samarinda Sarong female-weavers revealed body dimensions ill-suited to current traditional handloom dimensions. We have redesigned the traditional handloom based on these findings.

Keywords: Anthropometric dimension, musculoskeletal disorders, ergonomic, working posture, redesign handloom.

Introduction

In several countries, the rising of musculoskeletal disorders (MSDs) prevalence resulted considerable costs for both health and the weaving industry.\textsuperscript{(1),(2)} Recently, we reported that 85\% of Sarong Samarinda weavers in Indonesia experienced MSDs prevalence, with incidence of low, moderate, and high ratings at 15.0\%, 7.5\% and 77.5\%, respectively.\textsuperscript{(3)} Skeletal muscle pain was primarily detected in the lower neck, shoulders, upper hands, bottom, waist, thighs, calves and ankles.

MSDs were found to be associated with the education level, work experience, prolonged sitting time, work posture and body anthropometry. Work posture was the dominant variable responsible for MSD prevalence. Poor work posture may be caused by the ill-suited fit of the handlooms’ design to the anthropometry dimensions of the weavers.\textsuperscript{(3)}

The risk factors of MSDs for the weavers are include awkward and static work postures, twisting and lifting motions, pushing and pulling motions, and repetitive work.\textsuperscript{(2),(3),(4)} Awkward and static posture problems are generally caused by non-ergonomic work equipment and workstation design,\textsuperscript{(5)} which greatly affected on performance and work productivity.\textsuperscript{(6)} This research describes the redesign of traditional handlooms, which is used by Samarinda Sarong weavers based on their anthropometric data.

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Material and Method

An anthropometric survey was carried out to determine the anthropometric dimensions of 50 female weavers of Samarinda Sarongat East Kalimantan, Indonesia, from March to August in 2018.

Anthropometric dimensions of the weavers, i.e. sitting height, sitting eye height, sitting shoulder height, sitting elbow height, sitting mid-shoulder height, waist height, popliteal height, buttock-popliteal length, shoulder breadth, hip breadth, waist breadth, elbow-to-elbow width, forearm-hand length and upper limb length (maximum extended arm) were determined. While the handloom chair dimensions measured were height, depth, width, backrest tilt angle, upper backrest, lower backrest, armrest height and armrest length; the handloom table dimensions included surface height, surface width, surface depth, foot rest/step-on height, swing arm handle and the surface angle.

Data were analysed using descriptive statistics (minimum, maximum, mean, median, mode, standard deviation and 5th, 50th and 95th percentiles), in addition to distribution and uniformity. (7)

Results and Discussion

Demographic, anthropometric and current handloom dimension data: Demographic and anthropometric data of the weavers in this study are shown in Table 1 and Table 2, while dimension data of the current handloom(3) is shown in Table 3.

Table 1. Personal Characteristics of Samarinda Sarong Female Weavers (census, n=50)

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Mean</th>
<th>SD</th>
<th>Range</th>
<th>Min</th>
<th>Max</th>
</tr>
</thead>
<tbody>
<tr>
<td>Age (years)</td>
<td>45.60</td>
<td>11.55</td>
<td>45.00</td>
<td>28.00</td>
<td>73.00</td>
</tr>
<tr>
<td>Weight (kg)</td>
<td>55.88</td>
<td>9.40</td>
<td>39.00</td>
<td>35.00</td>
<td>74.00</td>
</tr>
<tr>
<td>Height (cm)</td>
<td>151.12</td>
<td>6.30</td>
<td>25.00</td>
<td>140.00</td>
<td>165.00</td>
</tr>
<tr>
<td>Working period (years)</td>
<td>20.38</td>
<td>13.43</td>
<td>57.00</td>
<td>1.00</td>
<td>58.00</td>
</tr>
<tr>
<td>Working time per day (hours)</td>
<td>6.12</td>
<td>1.25</td>
<td>7.00</td>
<td>3.00</td>
<td>10.00</td>
</tr>
</tbody>
</table>

Table 2. Anthropometric dimension of Samarinda Sarong weavers (census, n=50)

<table>
<thead>
<tr>
<th>Dimension (cm)</th>
<th>Mean</th>
<th>SD</th>
<th>5th</th>
<th>50th</th>
<th>95th</th>
<th>p*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sitting height</td>
<td>81.50</td>
<td>3.63</td>
<td>74.00</td>
<td>82.00</td>
<td>87.45</td>
<td></td>
</tr>
<tr>
<td>Sitting eye height</td>
<td>69.44</td>
<td>3.79</td>
<td>62.55</td>
<td>70.00</td>
<td>75.45</td>
<td></td>
</tr>
<tr>
<td>Sitting shoulder height</td>
<td>52.90</td>
<td>2.92</td>
<td>47.00</td>
<td>53.00</td>
<td>58.00</td>
<td>0.909</td>
</tr>
<tr>
<td>Sitting elbow height</td>
<td>32.92</td>
<td>4.45</td>
<td>24.10</td>
<td>33.50</td>
<td>44.00</td>
<td>1.18</td>
</tr>
<tr>
<td>Waist height</td>
<td>23.88</td>
<td>2.56</td>
<td>20.00</td>
<td>24.00</td>
<td>28.00</td>
<td></td>
</tr>
<tr>
<td>Popliteal height</td>
<td>45.88</td>
<td>4.95</td>
<td>35.55</td>
<td>46.00</td>
<td>54.90</td>
<td>0.492</td>
</tr>
<tr>
<td>Buttock-popliteal length</td>
<td>53.32</td>
<td>3.40</td>
<td>47.00</td>
<td>53.50</td>
<td>60.45</td>
<td>0.928</td>
</tr>
<tr>
<td>Shoulder breadth</td>
<td>31.36</td>
<td>4.10</td>
<td>17.00</td>
<td>20.00</td>
<td>30.90</td>
<td></td>
</tr>
<tr>
<td>Hip breadth</td>
<td>34.34</td>
<td>4.17</td>
<td>27.00</td>
<td>34.50</td>
<td>42.45</td>
<td>0.662</td>
</tr>
<tr>
<td>Waist breadth</td>
<td>29.16</td>
<td>3.90</td>
<td>24.10</td>
<td>28.00</td>
<td>36.90</td>
<td></td>
</tr>
<tr>
<td>Elbow to elbow</td>
<td>35.14</td>
<td>4.10</td>
<td>29.55</td>
<td>35.00</td>
<td>42.00</td>
<td></td>
</tr>
<tr>
<td>Forearm-hand length</td>
<td>33.72</td>
<td>2.09</td>
<td>30.00</td>
<td>34.00</td>
<td>37.00</td>
<td></td>
</tr>
<tr>
<td>Upper limb length/arm reach forward</td>
<td>69.20</td>
<td>3.44</td>
<td>63.55</td>
<td>70.00</td>
<td>73.00</td>
<td>1.158</td>
</tr>
</tbody>
</table>

Note: * Normality distribution and uniformity data test (Kolmogorov–Smirnov at α 0.05)
Table 3. Dimension difference of current and redesigned traditional handloom

<table>
<thead>
<tr>
<th>Part</th>
<th>Current</th>
<th>Redesigned</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Chair</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Height (cm)</td>
<td>56.00</td>
<td>55.35</td>
</tr>
<tr>
<td>Depth (cm)</td>
<td>27.00</td>
<td>47.00</td>
</tr>
<tr>
<td>Width (cm)</td>
<td>40.00</td>
<td>48.65</td>
</tr>
<tr>
<td>Backrest tilt angle</td>
<td>-</td>
<td>120°</td>
</tr>
<tr>
<td>Upper backrest (cm)</td>
<td>-</td>
<td>47.00</td>
</tr>
<tr>
<td>Lower backrest (cm)</td>
<td>-</td>
<td>24.10</td>
</tr>
<tr>
<td>Armrest height (cm)</td>
<td>-</td>
<td>37.45</td>
</tr>
<tr>
<td>Armrest length (cm)</td>
<td>-</td>
<td>37.00</td>
</tr>
<tr>
<td><strong>Table</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Surface height (cm)</td>
<td>79.00</td>
<td>88.44</td>
</tr>
<tr>
<td>Surface width (cm)</td>
<td>92.00</td>
<td>92.00</td>
</tr>
<tr>
<td>Surface depth (cm)</td>
<td>150.00</td>
<td>150.00</td>
</tr>
<tr>
<td>Foot rest/Step on height (cm)</td>
<td>17.00</td>
<td>17.00</td>
</tr>
<tr>
<td>Swing arm handle (cm)</td>
<td>33-37</td>
<td>33-37</td>
</tr>
<tr>
<td>Angle to horizontal (°)</td>
<td>0° (flat)</td>
<td>0° (flat)</td>
</tr>
</tbody>
</table>

The proposed dimension of redesign handloom: Based on the MSDs prevalence from the previous study, we consider the dimension of the current traditional handloom design. Seven dimensions for the chair design (seat height, seat width, seat depth, seat angle/backrest tilt angle, seat backrest height (upper), seat backrest height (lower) and armrest height and length) and six dimensions for the table design (table surface height, table surface width, table surface depth, foot rest/step-on, swing arm handle depth and table angle).

From in depth interviews with the female weavers, we found that only the table surface height dimension was detected as uncomfortable. We changed the table surface dimension and the rest of the handloom table dimensions remained the same as the original dimensions (Table 3). The proposed dimension of redesign handloom is shown in Figure 1.

**Figure 1. Construction of redesigned traditional handloom for Sarong Samarinda woman weavers.**

**Seat height:** The seat height is set to the non-adjustable height of 55.35 cm. It was designed using the 95th percentile of the popliteal height, as suggested by the ISWD, combined with the requirements of adding a shoe-heel allowance of 0.45 cm. The 95th percentile of the popliteal height of the weavers is 54.90 cm, while the handloom ‘step-on’ component is 0.45 cm because the weavers work without shoes.

**Seat depth:** The seat depth is set to 47 cm, as suggested by Molenbroek et al., Thariq et al., and Woo et al., to adhere to the 5th percentile of the buttock-popliteal length and the requirement that the seat depth should not exceed the buttock-popliteal length of the shortest user.
Seat width: The seat width of handloom chair is designed to be 42.45 cm with an allowance of 15% (6.3 cm), which translates to a seat width of 48.65 cm. The chair width constitutes the horizontal distance from the outer left side of the sitting surface of the seat to the outer right side.\(^{(10)}\) The seat width was designed using the 95th percentile of hip breadth.\(^{(15,18,17)}\)

Seat angle: The seat angle, or backrest tilt angle, is set to 120°, as this will reduce the occurrence of disc pressure as recommended from previous studies.\(^{(13–15)}\)

Upper backrest height: The upper backrest height (the vertical distance from the top side of the seat surface to the highest point of the backrest) is set to 47 cm, based on the recommendations to use the 5th percentile of sitting shoulder height.\(^{(18,14,19)}\) The upper backrest height is the key ergonomic element in the chair’s design, with its form and degree influencing in improving sitting posture and maintaining a normal spine.\(^{(10)}\)

Lower and upper backrest heights: The lower and upper backrest heights of the handloom chair seat are set to 24.10 cm and 47 cm, respectively, based on the 5th percentile of sitting elbow height and the 5th percentile of sitting shoulder height measurements.\(^{(18,21)}\)

Armrest height and length: The armrest height and length are set to 37.45 cm and 37.00 cm, respectively. Appropriate height adjustments and sufficient armrest padding can reduce pressure on the undersides of the forearms and elbows. Unfortunately, some national standards provide missing or ambiguous information on the requirements for armrest design.\(^{(13)}\) These armrest height and length dimensions are based on the use of the 95th percentile of the sitting elbow height and the 95th percentile of forearm-hand length.\(^{(8)}\)

Table surface height: The table surface height for the redesign is set to 88.4 cm, using the 50th percentile of the sitting elbow height (vertical distance of the seat to the bottom of the elbow) plus the 95th percentile of the popliteal. The formula recommended by the ISWD\(^{(8)}\) is more suitable for the female weavers of the Samarinda Sarong than the formula proposed by Ismaila et al.\(^{(10)}\)

Table underneath the knees height: The height of the table underneath the knees (i.e. the distance between the bottom of the table and the knees of the user) is set to 25.50 cm based on considerations to use the 95th percentile popliteal height, which is 54.90 cm, added to the thickness of the handloom table (8.00 cm). This distance allows weavers space to perform “step-on” activities and to cross their legs.\(^{(19,22)}\)

Table surface: The ISWD\(^{(8)}\) recommends using the 95th percentile of forward arm reach, which was 73.00 cm in this study. Other standards suggest minimum work desk areas of 150 cm (Australia), 90 cm (Canada) and 70 cm (United States).\(^{(13)}\) However, the traditional handloom table surface width featured in this study is 92 cm, and the majority of weavers interviewed said they could operate comfortably within this space. Therefore, the width was not modified from this in the redesigned handloom.

Table surface depth: The table surface depth upholds the original dimensions of the traditional handloom (150 cm) because the weavers cited feeling comfortable with the original table surface depth dimensions in using the tool to roll the thread and stretch it into the swing arm handle. It is different from recommends the use of the 50th percentile of the forearm-hand length to determine table surface depth\(^{(16)}\) or other recommended standards of the table surface depth minimums of 90 cm (Australia and Canada) or 50 cm (United States).\(^{(13)}\)

Swing arm handle depth: The swing arm handle depth also maintains the same dimensions as the traditional handloom at 33–37 cm. The swing arm handle is used to compress the woven thread and is operated by pushing and pulling the handle. The weavers reported being comfortable with the current swing arm distance, and it fits their anthropometric dimensions; therefore, it did not need to be modified.

Table angle: The horizontal table angles are set to remain flat at 0°. Chaffin\(^{(18)}\) suggests that the slope of the table surface has a positive impact on the neck, back, and shoulders, but that it must be adjusted according to its function. For reading and writing activities, users being able to adjust table tilt settings can reduce spinal flexion, which in turn reduces the risk of fatigue.\(^{(21,25)}\) However, the slope of the handloom table should be set to 0° to keep all components and materials sitting on the surface of the weaving table from falling off. Changing this angle will cause the table to slope, which can cause the components and material on top to shift, disrupting the weaving activities.

The limitation of the redesign traditional handloom: The redesign of the traditional handloom is expected to reduce the prevalence of MSDs in the
Samarinda Sarong weavers studied, similar to the results of the study by Purnomo et al.\(^\text{[20]}\) on redesigning school furniture. Choobineh et al.\(^\text{[21]}\) also showed that upholding appropriate workstation dimensions for carpet hand-weaving improved the weavers’ work posture and reduced incidence of MSDs. Currently, no data exists on the impact of redesigning traditional handlooms based on the work posture and MSD prevalence of the weavers. However, we are now preparing a follow-up study to test the handloom chair and table we developed in this study to determine how it affects weavers’ posture, comfort and MSD occurrences. The limitation of this study is that our handloom redesign is only applicable to users in the south eastern region of Asian because the anthropometry dimensions gathered exclusively reflect the Samarinda Sarong weavers of this region. However, the newly redesigned handloom may be usable for weaving workstations beyond traditional weaving products.

**Conclusion**

The traditional handloom currently used by female weavers making Samarinda Sarongs is not compatible with the anthropometric dimensions of these female Indonesian weavers. In this study, we redesigned the traditional handloom based on the anthropometry data collected from the woman weavers to fit the handloom dimensions to their body characteristics. The redesigned handloom is significantly different from the current traditional handloom in several ways. Moving forward, the new design needs to be assessed to determine if it will improve posture and comfort and reduce MSD occurrences in the weavers.

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**Conflict of Interest:** Nil

**References**


11. Molenbroek JFM, Kroon-Ramaekers YMT, Snijders CJ. Revision of the design of a standard

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