

ISSN-0971-720X (Print) • ISSN-0973-1283 (Electronic)

Volume 20, Number 1 January-March 2020



Medico-Legal Update

An International Journal



www.medicolegalupdate.org

Medico-Legal Update

Editor-in Chief

Prof. (Dr) R K Sharma

Former Head, Department of Forensic Medicine & Toxicology
All-India Institute of Medical Sciences, New Delhi-110029
E-mail: medicolegalupdate@gmail.com

ASSOCIATE EDITOR

1. **S.K. Dhatarwal** (*Professor*)
Forensic Medicine, PGIMS, Rohtak, Haryana
2. **Dr. Adarsh Kumar** (*Additional Professor*)
Forensic Medicine, AIIMS, New Delhi
3. **Dr. Vijaynath V** (*Associate Professor*)
Forensic Medicine, Vinayaka Mission Medical college, Tamil Nadu
4. **Ms. Roma Khan**, Forensic Sciences, INSAAF Mumbai
5. **Dr. Imran Sabri** (*Assistant Professor*)
Department of Bio-Medical Sciences. College of Medicine, King Faisal University, Saudi Arabia

INTERNATIONAL EDITORIAL ADVISORY BOARD

1. **B. N. Yadav** (*Professor*)
Forensic Medicine, BP Koirala Institute of Medical Sciences, Nepal
2. **Dr. Vasudeva Murthy Challakere Ramaswam** (*Senior Lecturer*)
Department of Pathology, International Medical University, Bukit Jalil, Kuala Lumpur. Malaysia
3. **Babak Mostafazadeh** (*Associate Professor*)
Department of Forensic Medicine & Toxicology, Shahid Beheshti University of Medical Sciences, Tehran-Iran
4. **Dr. Sarathchandra Kodikara** (*Lecturer*)
Forensic Medicine Department of Forensic Medicine, Faculty of Medicine, University of Peradeniya, Sri Lanka

NATIONAL EDITORIAL ADVISORY BOARD

1. **Prof. N.K. Agarwal** (*Professor*) Forensic Medicine, UCMS, Delhi
2. **P.K. Chattopadhyay**, (*Professor*)
Forensic Sciences, Amity University, Noida
3. **Dalbir Singh** (*Professor*) Forensic Medicine, PGIMER, Chandigarh
4. **Dr. Harish Pathak**, Mumbai
5. **J. Gargi** (*Professor*) GGS Medical College, Faridkot
6. **P.C. Dikshit** (*Professor*)
Forensic Medicine, Jamia Hamdard Medical College, New Delhi
7. **Anil Mittal** (*Professor*)
Forensic Medicine, Vardhman Mahavir Medical college, New Delhi
8. **Balbir Kaur** (*Professor*)
Forensic Medicine, MM institute of Medical Sciences, Ambala
9. **Mukesh Yadav** (*Professor*) Forensic Medicine, School of Medical Sciences and research, Greater Noida
10. **T.K.K. Naidu** (*Professor*) Forensic Medicine, Prathima Institute of Medical Sciences Andhra Pradesh
11. **S. Das** (*Professor*) Forensic Medicine, Himalayan Institute of Medical Sciences Dehradun
12. **Col Ravi Rautji**, Forensic Medicine, Armed Forces Medical College, Pune
13. **Dr. Manish Nigam** (*Professor and Head*)
Department of Forensic Medicine & Toxicology Sri Aurobindo Institute of Medical Sciences, INDORE (M.P.)
14. **Dr. Shailesh Kudva** (*Principal*)
Rajasthan Dental College and Hospital Jaipur-302026
15. **Usmanganishah Makandar** (*Associate Professor*)
Anatomy, AIMS, Bhatinda
16. **Dr. Pratik Patel** (*Professor and Head*) Forensic Medicine, Smt NHL Municipal Medical College Ahmedabad
17. **Basappa S. Hugar** (*Associate Professor*)
Forensic Medicine, Ramaiah Medical College, Bangalore

NATIONAL EDITORIAL ADVISORY BOARD

18. **Dr. Vandana Mudda** (*Awati*) (*Associate Prof*)
Dept of FMT, M.R. Medical College, Gulbarga, Karnataka, India
19. **Dr. HarishKumar. N.** (*Associate Professor*)
Dept. of Forensic Medicine, Sri Siddhartha Medical College, Tumkur
20. **Dr. Gowri Shankar** (*Associate Professor*)
Forensic Medicine, SNMC, Bagalkot
21. **Dr. Manjunath Badni** (*Reader*) Dept of Oral pathology Maharana Pratap college of Dentistry and Research Centre, Gwalior
22. **Dr. L.Ananda Kumar** (*Associate Professor*) Forensic Medicine, Rajiv Gandhi Institute of Medical Sciences, (RIMS), Kadapa
23. **Dr. Ramesh Nanaji Wasnik** (*Associate Professor and Head*)
Forensic Medicine Late B.R.K.M. Govt. Medical college, Jagdalpur
24. **Dr. Sachin Sinha** (*Reader*), Dept. of Oral Pathology & Microbiology
Daswani Dental College & Research Centre, Rajasthan
25. **Dr. Sasi Kanth**, *Asst. Professor*, A.C.S.R Government Medical College, Nellore, Andhra Pradesh.

Medico Legal Update is a scientific journal which brings latest knowledge regarding changing medico legal scenario to its readers. The journal caters to specialties of Forensic Medicine, Forensic Science, DNA fingerprinting, Toxicology, Environmental hazards, Sexual Medicine etc. The journal has been assigned international standard serial number (ISSN) 0971-720X. The journal is registered with Registrar of Newspaper for India vide registration numbers 63757/96 under Press and Registration of Books act, 1867. The journal is also covered by EMBASE (Excerpta Medica Database) from 1997 and by INDEX COPERNICUS, POLAND. Medico legal update is a half yearly peer reviewed journal. The journal has also been assigned E-ISSN 0973-1283 (Electronic version). The first issue of the journal was published in 1996.

Website: www.medicolegalupdate.org

© All Rights reserved The views and opinions expressed are of the authors and not of the Medico Legal Update. The Medico Legal Update does not guarantee directly or indirectly the quality or efficacy of any products or service featured in the advertisement in the journal, which are purely commercial.

Editor

Dr. R.K. Sharma
Institute of Medico-legal Publications
Logix Office Tower, Unit No. 1704, Logix City Centre Mall,
Sector- 32, Noida - 201 301 (Uttar Pradesh)

Printed, published and owned by

Dr. R.K. Sharma
Institute of Medico-legal Publications
Logix Office Tower, Unit No. 1704, Logix City Centre Mall,
Sector- 32, Noida - 201 301 (Uttar Pradesh)

Published at

Institute of Medico-legal Publications
Logix Office Tower, Unit No. 1704, Logix City Centre Mall,
Sector- 32, Noida - 201 301 (Uttar Pradesh)



CONTENTS

Volume 20, Number 1

January-March 2020

1. An Autopsy Study of Cranio-Cerebral Injuries Due to Road Traffic Accidents..... 1
Gandla Bala Maddileti, A.Dominic Infant Raj, Rajendra Kumar, Gajula Mahesh, Yamini.K
2. Age Estimation from Radiological Evaluation of Epiphyseal Union of Related Bones Around Elbow Joint: A Cross Sectional Study from Central India (Chhattisgarh) 7
Aloke Mazumder, Ninad Nagrale
3. Manufacturers' and Endorsers' Liability : 'Shifting the Onus' Approach 13
Amrita Mishra, Amruta Das
4. Crossword Puzzle: An Innovative Assessment Tool to Improve Learning of Students in Forensic Medicine18
Harish Kumar Agarwal, Aparna Singhal, Arvind Kumar Yadav
5. A Study to Assess the Patients Compliance to Medications among Hypertension Patients at Selected Areas in Kanchipuram District Tamilnadu..... 23
M.Kalki, S. Mohana Priya, N.Thivya
6. Restrictions Imposed by Human Biology in Achievement of Gender Justice as Human Rights..... 26
Parul Yadav, Komal Vig
7. Knowledge & Perception Of Medical Students Towards The LGBT (Lesbian, Gay, Bisexual & Transgender) Patients & Their Rights: A Cross Sectional Study..... 31
Ninad Nagrale, Pawan Wankhade, Bhupendra Gathe, A.P.Dongre
8. Causes and Factors in Road Traffic Accidents at a Tertiary Care Center of Western Uttar Pradesh..... 38
Pradeep Kumar Agarwal, Pranav Kumar, Harnam Singh
9. Toxicological Trends of Poisoning in a Tertiary Care Center of Western Uttar Pradesh 42
Pradeep Kumar Agarwal, PranavKumar, Harnam Singh
10. A Study on the Cause of Death Due to Burn Cases and Histopathological Changes in North Indian Setting-A Cross Sectional Study 47
Pradeep Kumar Yadav, Richa Choudhury, Anoop Kumar Verma, Mousami Singh, Raja Rupani, Sangeeta Kumari, Rajiv Ratan Singh
11. Client Satisfaction and Preferences Towards Nonverbal Communication(NVC) of Health Care Providers in a Therapeutic Setting, Mangaluru 51
Sonia Sequeira, Precilla D'Silva
12. Querying the Dataset from the Developed Ontology for Swineflu Disease..... 57
Radhika Pathi, Suresh Verma Penumatsha, Lakshmi Kalyani Neerukonda, P.Rama Krishna

II

13. Constitutionality of Attempt to Commit Suicide- Unlocking The Controversy 63
Smita Satapathy, Madhubrata Mohanty
14. Perspective on the Immorality of Honor Killings – A Review Article 67
Sneha.S, Smriti Sarathi, P.Sampath Kumar, Rajesh.R, Jagdish Kamal Chander.U
15. International Humanitarian Approach on ‘Identity Crisis’ of LGBTQ: A Global Perspective..... 72
Amruta Das, Amrita Mishra
16. Direction of Environmental Virtue an Epilogue: A Critical Analysis of 19th Century Case Laws 77
Annapurna Pattnaik
17. A Study on Pattern of Intracranial Injuries in Cases of Fatal Head Injury..... 82
Arulmathikannan M, Jagdish Kamal Chander U., Priyadarshree Pradhan, Sneha.S, P. Sampath Kumar
18. A Post-mortem Observational Study of Suspicious Deaths in Married Females Aged 30 Years or Less 86
J. P. Kachhadia, J. A. Tanna, V. R. Patil
19. Study of Various Osteometric Parameters of Human Mandible in Adult and Elderly Age Groups..... 91
Priyamvada Kurveti, Dheeraj Singh Verma, Jayanthi Yadav, B.P. Dubey
20. Estimation of Stature from Footprint Length 96
Janarthanan. R , Muthamizh Selvan P
21. Assessment of Knowledge and Attitude of Adolescents Regarding Blood and Organ Donation in Selected Rural Areas of Shimla, Himachal Pradesh, India 101
Jinu.K.Rajan
22. Non-Invasive Method of Measuring Blood Sugar in the Early Stage and Diagnose the Result Using Discrete Wavelet Transform..... 106
N.D Bobby, N.Prabhakaran, J.Thameema Begum, M.MuniReddy
23. Knowledge about Legal Aspects of Medical Negligence in India among Dentists– A Questionnaire Survey 111
P.K.Uma, Pratibha Ramani, Herald. J. Sherlin, Gheena.S, Gifrina Jayaraj, K.R. Don, Archana Santhanam
24. Nasal Height as a Parameter for Stature Estimation & Sex Differentiation in Dehradun Region 116
Jyoti Barwa, Rattan Singh
25. Study oof Suspicious Deaths in Middle Aged Married Females..... 122
J. P. Kachhadia, S. B. Bhatt, V. R. Patil
26. Quality of Life among Patients with Hypertension at Selected Tertiary Hospital In Kelambakkam, Kanchipuram District, Tamil Nadu, India 127
Lenin Ezhilarasu.J, Parasuraman. P, Sathiya priya.V
27. Effectiveness of Information Booklet on Knowledge, Practices and Willingness Regarding Recycling of Solid Household Waste Management among Residents..... 130
Seeta Devi, Roya Nemati, Petronella Natah, Rehu Rajan, Sumit Rane
28. A Study “To Assess the Level of Knowledge on Swine Flu Among Adults in Selected Area at Poonchery, Kanchipuram District, Tamilnadu 135
N.William Raj, R.Bhuvaneshwari, Shenbagaprabha.N

29.	The Effectiveness of Video Assisted Teaching on Fire Safety among School Children at Selected School, Kanchipuram District, Tamilnadu	138
	<i>Moses Rathnakumar, Shruthi P, L.Lakshmi</i>	
30.	Lilliputian Neglected Happenings Call For Snafu: “Theory of Broken Windows”	141
	<i>Shyamantak Misra, Prabir Kumar Pattnaik</i>	
31.	Self Determination and Indigenous People: The Fight For ‘Commons’	144
	<i>Swati Mohapatra</i>	
32.	A Descriptive Study to Assess the Knowledge on Fast Food Eating among Adults in Selected Urban Community Kanchipuram District Tamil Nadu	149
	<i>T. Yaazhini, K.Vishwanathan, N.S Shakthivel, M.Yagajeyanthi</i>	
33.	A Three Year Study of Skull Fracture Patterns in Fatal Road Traffic Accidents in a Tertiary Care Hospital Mortuary in Imphal From 2015-2018	152
	<i>Th. Meera Devi, Memchoubi Ph., Haobijam Rita Devi</i>	
34.	Intracranial Meningioma Aggressivity Image and Level of Malignancy in Head Magnetic Resonance Imaging (MRI).....	158
	<i>Vony Tjandra, Sri Andreani Utomo, Ulinta Purwanti, Dyah Fauziah, Hari Basuki</i>	
35.	Practice and Perceived Barriers among Health Care Workers to Control Infection in Dialysis Unit.....	165
	<i>Jackline Prathibha, Daisy Josphine Lobo, Shalini G Nayak, Vandana KE</i>	
36.	Profile of Medicolegal Autopsy Cases at Tertiary Care Centre in Belagavi, Karnataka. A One Year Retrospective Study	170
	<i>Khaja Azizuddin Junaidi, Somashekhar S Pujar, Ravindra S Honnungar, Prasanna S Jirli, Vishal V Koulapur, Kashif Ali, Pushpa M.G</i>	
37.	Accuracy of Demerjian Age Estimation Method in South India Kadapa [A.P] Population-A Cross Sectional Study	175
	<i>Prem Kumar Moode, L Ananda Kumar, Ramesh Mittapelly</i>	
38.	Iatrogenic Factors and Oral Health.....	180
	<i>Asma Usmani, Chavi Bhati, Mayur Kaushik, Afzal Ahmad</i>	
39.	Medical Malpractice in India: A Critical Analysis of Liability and Defense Framework	187
	<i>Hiranmaya Nanda, Amruta Das</i>	
40.	Preclinical Diagnosis of Diabetes with Tongue Infrared Thermography and PSO Algorithm.....	191
	<i>A. Selvarani, G. R. Suresh</i>	
41.	Medico-Legal Profiling of Sher-i-Kashmir Institute of Medical Sciences Srinagar under Consumer Protection Laws of Union Territories of Jammu and Kashmir	198
	<i>M.Z.M. Nomani, Ajaz Afzal Lone, Faizanur Rahman Alaa K.K.Alhalboosi, Aijaj A.Raj</i>	
42.	The Prospect of Environmental Law to Achieve Healthy Environmental Development in Indonesia	204
	<i>Absori Absori, Sigit Sapto Nugroho, Anik Tri Haryani, Sarjiyati Sarjiyati, Arief Budiono, Heru Santoso Wahito Nugroho Rangga Jayanuarto</i>	

IV

43. Measurement of Lipid Profile in Fasting Persons 209
Adhraa Baqir Hassan, Hayder L. F. AL-Msaid, Arshad noori ghani Al-dujaili, Haider Salih Jaffat
44. Legal Protection of Medical Records for Hospital Patients 214
Agus Prihartono Permana Sidik, Rani Sri Agustina, Wafda Vivid Izziyana
45. Prevalence of Coronary Artery disease in Patients undergoing Non Coronary Cardiac Surgery: A Single Center Study 218
Ahmed Moyed Hussein, Bahaa Abdullah Ali, Merah Subhi Mohammed
46. Incidence of Early Complications in Laparoscopic Total Thyroidectomy Vs Open Thyroidectomy Using Breast Approach in Simple Multinodular Goiter 223
Alaa Jamel Hasin, Muslim Kandel Kadeem, Kasin Tream
47. Molecular Detection of Mutations in mtCOX1 Gene in Iraqi Patients with Aortic and Mitral Valve Diseases 228
Ali Jumaa Al-Hussona, Faizah A.W. Ahmed
48. Rubik Play Therapy Influence on the Level of Anxiety in Children Preoperative 234
Aprina, Meylani Anita Putri, Siti Fatonah
49. The Surgical Outcome of Distal Pancreatectomy for Distal Pancreatic Tumors 239
Aqeel Shakir Mahmood, Waseem M shakir, Khalid Shakir kareem
50. Condition of Houses with Smoking Habits in Patients with Pulmonary Tuberculosis 245
Baharuddin Condeng, Muhammad Syafar, Saifuddin Sirajuddin, Furqaan Naiem, Azizah Saleh
51. Diode Laser & Conventional Surgery Treatment, A Comparative Study in Anal Diseases 250
Basim Ghaib Hussein, Jameel I. Azzawi, Rabah Ali Hussein
52. Hypertension Control in Diabetic Patients 256
Bilal Jamal Kamal, Shan Nadhmi Nadhim, Muhammed Ali Khalaf
53. The importance of Post-Mortem Computed Tomography (PMCT) as a Complementary Diagnostic Technique to Traditional Autopsy in a Case of Asphyxia Related-Death 262
Del Fante Z., Di Fazio N., Quattrocchi A., Fazio V., De Matteis A., Arcangeli M., La Russa R.
54. The Effect of Soot Particulate towards MAPK Expression in the Mechanism of Cardiovascular System Disruption 267
Dodit Yutanto
55. Synergy of Government and Regional Government Authority in Providing Health Guarantee for Communities in Indonesia 273
Fatkhul Muin, Rully Syahrul Mucharom, Wafda Vivid Izziyana
56. Evaluation the Relation between School Bag Weight and Backache among Primary School Pupils in Tikrit City 278
Firas Tariq Ismaeel, Wheab Faraj Dawood, Nisreen Mohammed Ibraheem, Aya Fawaz Mawlood, Ranya Jamal Mahmood
57. Helicobacter Pylori Can Cause Vitamin B12 Deficiency 284
Gufnan Kadhim Abdulkareem, Wasan Najim Abdul-Sada, Haider Kadhim Abdulkareem

58.	Detection of Parvovirus B19 Infection in Thalasemic Patients in Tikrit City, Serological Study	287
	<i>Hala Mohamed Majeed</i>	
59.	Evaluation of Titanium di oxide Nano-fillers Incorporation on Mechanical Properties of Heat Cured Acrylic Resin	292
	<i>Hasanen A.Alnamel, Ali ShyaaThedan</i>	
60.	The Effectiveness of Garcinia Mangostana L. Rind extract in Reducing Total Cholesterol Levels in Hypercholesterolemic Male White Mice.....	298
	<i>Hasyim As'ari, Asnani</i>	
61.	Role of MnSOD Val16Ala Gene Polymorphism in Changing the Level of Serum Metals in Workers Exposed to Heavy Metals in Al-Nasiriyah City	304
	<i>Hayder Hussein Jalood, Afrah Abid Maktoof, Hassan R. Al Rekaby</i>	
62.	Seroprevalence of Hepatitis A Virus (HAV) in Mosul City	310
	<i>Ismail I Daood, Radhwan Hussein Ibrahim</i>	
63.	Prostate Health Index in a sample of Iraqi patients with Prostate Cancer and Benign Prostatic Hyperplasia.....	315
	<i>Amal A. Hussein, Rayah S. Baban, Alaa G. Hussein, Saif H. Mohammed</i>	
64.	The Effect of Buzz Group Modification Method on Exclusive Breastfeeding Against Self Efficacy in Pregnant Women: A Quasi Experiment	322
	<i>Febyana Dwi Cahyantia, Lailatun Nimah, Retnayu Pradaniea</i>	
65.	The Discovery of Comorbidity Deviation in the Cervical Cancer Patients Treated by the Intravenous Pyelography Examination and Clinical Examination (Based on Federation International de Gynecologie et d'Obstetrique).....	328
	<i>Kristina Puji Rahayu, Budi Laraswati</i>	
66.	Analysis of Breastfeeding Factors: The Sunrise Model Approach	334
	<i>Meilina Azizah Nurhayatia, Ni Ketut Alit Armini, Tiyas Kusumaningrum</i>	
67.	Comparative Study to Evaluate the Antimicrobial Effect of MTAD, 17% EDTA, and 3% NaOCl- Against Enterococcus faecalis in Primary Teeth for Root Canals Therapy (in Vitro Study).....	340
	<i>Sarmad A. Hameed Sana'a Abdulrazzaq Ibrahim Suhad Al-Nasrawi</i>	
68.	Iron Oxide Nanoparticles Reduced Biofilm Formation and Detection of Imb Genes in Streptococcus agalactiae Isolated From Patients with Diabetes Mellitus.....	346
	<i>Sarween Omer Taha Rasul, Khadija Khalil Mustafa, Zirak Faqe Ahmed Abdulrahman</i>	
69.	Correlation of Nitric Oxide (NO) Sputum Level and Lung Physiology of Indoor Parking Attendant	352
	<i>Tati Sudiarti, Winariani</i>	
70.	Indications and Adverse Outcomes of Emergency Lower Segment Cesarean Section at 1 St and 2 Nd Stages of Labor at Al-Elwiya Maternity Teaching Hospital	358
	<i>Weqar Akram, Thikra N. Abdulla , Taghreed Mardan Abdullah</i>	
71.	The Determinants of the Occupational Diseases in Al-Nasiriyah Province at 2018	364
	<i>Majeed MohanThajeel Al-Hamami, Mulim Nahi, Ali A. Saadoon, Safaa Kudhaier Abbas</i>	

VI

72. Model of Women Participation in Supporting Government Policies Reducing Neonatal Mortality in Kupang District..... 371
Maria Margaretha Ulemadja Wedho, Mintje Ratoe Oedjoe, David B.W. Pandie
73. Precision of 3D MSCT Scan Diagnostics on Maxillofacial Trauma Compared to Stabilization and Instrumentation Operation Results 376
Meitty Christina Hidayati, Anggraini Dwi Sensusiati, Hari Basuki
74. Breast Cancer Risk Trends of Iraqi Women..... 383
Minen Al-Kafajy
75. Colorectal Cancer in Nineveh: Five Years Survival Rate 387
Moayad Aziz Alabdaly
76. Significance of Fingerprints in A Brutal Travel Bag Murder- A Case Report..... 393
Mohammad Ahmad Abdullah Ahmad AlSuwaidi, Abdulrahman Mohammed Obaid Almehiri, Mohammed Thani Rashid Almarri, Jassim Mohammed Abdullah Rashid, Bhoopesh Kumar Sharma
77. Detect the Infection with Rubella Virus and Toxoplasmosis in Pregnancy Causes Suffering from Early Abortion by Using Real Time PCR 397
Mohammed Ayyed Najm, Hadeel Abdelelah Abdel Razaak , HayfaaMahmood Fahad
78. Flexible Ureterorenoscopy Versus Extracorporeal Shock Wave Lithotripsy for Treatment of Lower Pole Renal Stones 403
Mohammed B. Ismail, Hasanain F. Hasan Al-Timimi, Hayder H. Alwan
79. The Effect of Glutathione versus Co-Enzyme Q10 on Male Infertility Original Study..... 409
Mohammed Hussam Mohammed Saeed Alkumait, Mohammed Mohsin Abdul-Aziz, Montadher Hameed Nima
80. Incidence and Variations of Aberrant Renal Arteries in Kidney Donors Cases..... 415
Mustafa AbdulMonamZainel, SuhelmawloodalNajjar
81. Evaluation of the Level of CXCL10 in Patients with Parainfluenza Virus Type III (HPIV3)..... 422
Noor Hameed Alkharsan, Siham Jasim Al-kaabi
82. Association between the Characteristics of Pre-Surgery Vascular Ultrasonography and the Successful Arterio-Venous Fistula Shunt Surgery as Hemodialysis Access to Patients with Kidney Disease Stage V. 429
Nurwanto, Prijambodo, Tri Wulan handarini, Windhu Purnomo
83. Prevalence of Childhood Disability in Basrah City Using the Ten Questions Too 435
Hajer Salim AlMosawi, Sajjad S. Issa, Mohamad A. Akber
84. Expression of e-NOS in Human Placentas of Idiopathic Intra Uterine Growth Restriction at Term..... 440
Mohammed E. Ghanem, Samia A. Eleiwe
85. Characteristics of Multidrug Resistant Tuberculosis in Minia, Egypt 446
Shimaa Anwer Emam, Eman Mahfouz Kasem, Amany Edward Sedhom
86. Prevalence of Uncorrected Refractive Errors Among the Internally Displaced Schoolchildren in Iraq..... 453
Rafea Allawi Fayyadh, Noor Hussain Abady
87. The Influence of Additional Food Hotong Porridge with Moringa Leaves Mixture on Improvement Nutritional Status of Children Nutritional Children..... 459
Rahma Tunny, Merryana Adriani, Bambang Wirjatmadi

88.	The Stiffness Comparison of Four-Screw versus Six-Screw Short Segment Pedicle Posterior Stabilization Instrumentation in Cyclic Axial Compression	465
	<i>Reza Rahman R, I Ketut Martiana</i>	
89.	Correlation of Aggressivity Papilloma Recurrent Respiratory Tract With Human Papillomavirus Types 6 And 11.....	471
	<i>Rizka Fathoni Perdana, Sri Herawati, Bakti Surarso, E Bimo Aksono H</i>	
90.	Investigation of IL-17F (rs763780) gene Polymorphisms in cases with Iraqi renal failure patients	477
	<i>Saja Mohammed Mohsen, Abbas Abood Farhan, Mohammed Abdul-Daim Saleh</i>	
91.	A Descriptive Study to Assess the Problem Faced by the Adolescents of Alcoholic Parent	483
	<i>Saranbharati.B, Ramya.V, Rajalakshmi, Devaki. K</i>	
92.	Demographic, Clinical and Hormonal Characteristics as Predicting Factors Affecting the Outcome of Laparoscopic Ovarian Drilling in Women with Poly Cystic Ovary Syndrome	486
	<i>Shelan Omar Jaafar, Ghada Saadulla Alsakkal, Namir Ghanim Al-Tawil</i>	
93.	Stress Perception and Stress Response against Internet Psychological Addiction (IPA) on Adolescents (Psychoneuroimmunology Approach).....	494
	<i>Siti Nurul Fajriah, Suhartono Taat Putra, Yusti Probowati, Rika Subarniati T.</i>	
94.	The Prevalence of Sperm Parameters for Infertile Males in Thi-Qar City.....	500
	<i>Sumeya Ghanawy AL-Najjar</i>	
95.	Awareness of Medico-Legal Issues among Medical College Health Professionals.....	505
	<i>Tabitha Elizabeth Thomas, Magendran.J</i>	
96.	Effect of Antenatal Exercise Teaching Program on Neonatal Outcomes During Delivery in Erbil, Iraq.....	510
	<i>Warda Hassan Abdullah, Badia Mohammed Najib</i>	
97.	Study of Dyslipidemia in Iraqi Hypertension Patients in Tikrit City	516
	<i>Zaidan Jayed Zaidan, Ahmed Moyed Hussein, Sheet Mutlak Ahmed</i>	
98.	Isolating Some Pathogenic Bacteria from Packed Milk and Detecting of Formalin in its Components.....	522
	<i>Zainab Alag Hassan, Ali Aboud Shareef, Majid Ahmed Kadhim, Abdulameer Abdullah Al-Mussawi</i>	
99.	Screening Study for Some Strains of E. Coli Collected from Five regions in Kurdistan-Iraq for its Sensitivity, Resistance and MDR against Thirteen Antibiotics	526
	<i>Asma Sumiea Afram Karomi</i>	
100.	The Role of Silver (Ag) Nanoparticles synthesis by Penicillium spp against the Toxicity of Echinococcus Granulosus in Adult Albino Male Rats	532
	<i>Ahmed Hamad Saleh Hussein A.R. Abbood</i>	
101.	Characteristics of Lower Back Pain in Pregnant Ladies in Thiqar-Iraq.....	538
	<i>Ihsan Oudah Yasir, Suaad Rodan Shoelef</i>	
102.	Thyroid Dysfunction in Iraqi Patients with Acromegaly	541
	<i>Selman Nihad A, Rahma Abbas M, Ali Atheer Y</i>	

VIII

103. Simulation of Poly (ADP-ribose) polymerase (PARP) Enzyme with BAI Compound in the for Thyroid Cells 549
Hasan Tuhmaz Hamd
104. Advantage of Application of Topical Hyaluronic Acid in Reducing Post Tonsillectomy Pain; Cross Sectional Comparative Study 555
Ahmed Kareem Shiaan Al-Baidhani, Muthanna Saleem Abdulameer
105. Atherogenic Index of Plasma among Type2 Diabetic Patients Cross-Sectional Study In Iraq..... 560
Dalal Abd Al-Sattar Asaad, Ali Shalash Sultan, Zaid Naji Hassan
106. The relation between Serum Vitamin C and D, Calcium Intake With Obese Type 2 Diabetic Patients..... 565
Yasamin Abdul - amer Kadhum; Shaimaa D. Salman, Sabah Abdel- Hameid Abdel- Rahman, Najat Sabah A. Hameid
107. Assessment of Anti-Mullerian Hormone and Anti Ovarian Antibody in the Sera of Patients with Polycystic Ovarian Syndrome in AL-Najaf Al-Ashraf Province 570
Abbas Sahib Fakhar Al-Naffakh, Farhan Abood Risan
108. Cervical Spinal Stenosis and Risk of Pulmonary Dysfunction: Case Control Study 579
Post graduate Student Esraa Hammadi Fahad, Zainab H. Hashim, Ihssan S. Nema
109. Molecular Study of spy1258 gene in Streptococcus Pyogenes Isolated from Pharyngitis Patients in Fallujah City 585
Nada Zaidan Khalaf, Laith Moslih Najeeb, Asraa Adnan Abdul-Jalil
110. Design in line LMA-10 Photonic Crystal Fiber MZI for Detection and investigation of Beta Thalassemia 591
Layla M. Alameri, Tahreer S. Mansour, Fareed F. Rashid, Sara J. Belal
111. The Effect of Oral Magnesium Supplements on Lipid Profile and Oxidative Stress in Adult Albino Female Rats 596
Khder Najem Abdulla Muneef S. Ahmed, Saleh Mohammed R
112. Evaluation of Amateur and Professional Tattoo Removal by the Q Switched Nd:YAG Laser 600
Nibras A. A. Hindy
113. Serum Levels of Novel Biochemical Marker (Irisin) in Relation to the Duration of Type 2 Diabetes & in Cases of Type 2 diabetes with Coronary Artery Disease in Iraqi Patients Aged (40- 60 year) 606
Dunia Tahseen Nema Al-Aridhi, Khalid I.H. Allehibi, Zainab A. Razak Al-Sharifi, Muthanna Al Quraishi
114. Study the Effect of Temperature Variable on the Patient with Jaundice Stay Period inside the Incubator . 613
Husam Yahya Naser, Auns Q. Al-Neami, Yasser Ibrahim
115. The Role of Global Longitudinal Strain in Early Detection of Doxorubicin Induced Cardiotoxicity in Breast Cancer Patients 618
Wisam Abbas Hasan, Shokry faaz Al-saad, Hassan Salim Aljumaily
116. Personal Hygiene and Safety among governmental Hospitals Nurses Staff in Mosul City 624
Rami Ramadan Allo, Tameem Thamir Mayouf, Munther Natheer AL-Fattah
117. Molecular Detection for Nosocomial Pseudomonas aeruginosa and its Relationship with multidrug Resistance, Isolated from Hospitals Environment 631
Wathiq Abbas Hatite Al-Daraghi, Mohammed Sattar Abdulkadhim Al-Badrwi

118. Knowledge Assessment of Working Women Regarding Breast Cancer / Control and Prevention in Kirkuk Technical Institute	637
<i>Wafa Mahmood Jasim</i>	
119. The Effect of Esomeprazole on Cell Line Human Cervical Cancer.....	644
<i>Azal H. Jumaa, Ahmed Sami Jarad, Wissam Sajid Hashim Al Uboody</i>	
120. Evaluation of Salusin β in Patients with Prediabetes and Type 2 Diabetes Mellitus	651
<i>Sabah Hussein dayekh, Mohammed Imran Hamzah, Jelal Abid Ateaai</i>	
121. Vitamin D and its Association with the Severity and / or the Control of Asthma among Adult Iraqi Asthmatics	655
<i>Haider Abdulhameed Alqaraghuli, Hashim Mahdi Hashim,</i>	
122. Determination Enterococcus faecalis in Asymptomatic Urinary Tract Infection Associated with Diabetes Type 2 Patients in Suwayrah General Hospital-Iraq	661
<i>Ibtisam H. Al-Azawi, Mohammed H. Abbas</i>	
123. Oral Desmopressin as an Add-on Therapy for Men with Benign Prostate Hyperplasia they Suffering from Persistent Nocturia	667
<i>Firas Alquraishi Saif H. Mohammed, Yasser Al-Hakeem</i>	
124. The Practicing and Attitude of Some Medical Students at Al-Nahrain College of Medicine Towards Cosmetic Rhinoplasty	672
<i>Nibras Alaa Hussain Qais Ismaeel Kadhem, Ashraf MA Hussain</i>	
125. The Level of Serum Progesterone on the day of HCG Administration in Assisted Reproduction Cycles ...	677
<i>Adnan A.H. Albdairi, Hanan Khudheir Hussein</i>	
126. Protective Role of Quercetin plus Vitamin C on Infection of Rats with Klebsiella pneumoniae and Pseudomonas aeruginosa	683
<i>Shaimaa Khazaal Waad, Wurood M. Al-Silaykhee, Hekmet B. Alhmadi, Aiad Gaber Areean</i>	
127. Study The Role of Selenium in The P-Selectin and E-Cadherin Serum Levels in Women with Preeclampsia	688
<i>Aysel A. Ahmed, Raid J. Al-Timimi, Enas Adnan Abdulrasol</i>	
128. Histological Sections of Pancreas and Serum Biochemical Changes in Rats after Dexamethasone and Zinc Oxide Nanoparticles Injection.....	694
<i>Ruaa M. Ali, Nada K. Abbas, Amal K. Abbas, Lamia K. Abbas</i>	
129. Study the Role of Trichomoniasis in In Vitro Fertilization (IVF) Failure	700
<i>Huda Dhaher Al-Marsomy, Faten Ahmed Hassan</i>	
130. Unexpected Adverse Medical & Surgical Health Conditions in Neonates after Elective Cesarean Sections within the Context of the Influence of Local Socidemographic Factors in Babylon.....	706
<i>Sijal Fadhil Farhood Al-Joborae, Ihab Raad Abbas Abid Ali; Fadhil Farhood Mekki Al-Joborae</i>	
131. Isolation of MRSA from Drinking water Supplies in Al-Anbar Province, Iraq.....	713
<i>Shirin Yasin Bdewi, Mohammad Hamid Kareem, Mohammed Moseleh Shwaish, Mustafa Salah Hasan</i>	
132. The Predictive Value of Red Cell Distribution (RDW) in Patients with Type 1 and Type 2 Diabetes Mellitus.....	717
<i>Huda Jabbar Dibby, Radhi Farhod Shlash</i>	

X

133. Histopathological Changes Associated with Cutaneous Leishmaniasis in Patients with Baghdad Boil/
South of Iraq 722
Amal Khudair Khalaf
134. Serum Anti-Mullerian Hormone Concentration and Function of The Pituitary-Gonadal Axis in Iraqi
Patients with Chronic Kidney Disease 727
Athraa K. Falhi, Noori M. Luaibi, Ali J. Alsaedi¹
135. Infection Control Measures for Nurses Staff Concerning with Hepatitis B and C at Hemodialysis Unit
in Hilla Hospitals 733
*Ahmed Mohammed Jasim Shlash, Nada KhazalKadhim Hindi , Mohammed Malih Radhi,
Baqer Abdulameer Abod Alshemari, Duaa Salman Abd Ali Albaghdadi, Hanan Hassan
ZoghairAlmohamadawi, Hajar Sahib Mahdi Mohammed*
136. Gingival and Salivary Changes in Correlation with Multiple Sclerosis..... 739
Esra Hassan Abd Ali, Suzan M. Abdul Raheem
137. Impact of Caring Child with Diabetes Mellitus Type1 upon Mothers at Specialized Center for
Endocrinology and Diabetes in Baghdad City 746
Khamees Bandar Obaid
138. Measures Self-Esteem among Undergraduate Nursing Students 754
Safi Alzeyadi, Saja H. Mohammed
139. Patterns of Haemoglobinopathies Diagnosed by High Performance Liquid Chromatography in
Karbala Population and Correlations between Different Hematological Parameters 759
Enass Abdul Kareem Al-Saadi, Duha Maithem Hassan, Wafaa Redha Al-Sabbagh
140. Risk Factors of Acute Otitis Media among Infants Children in Kerbala Pediatric Teaching Hospital:
A Case-Control Study 766
Hassan Abdullah Athbi , Haider Nawaf Abed-Ali
141. The impact of L-carnitine Supplement on Semen Variables and the Levels of Sexual Hormones
(Serum LH, FSH, Testosterone, and Inhibin) in Males with Infertility 772
Azzawi M.Hadi, Yassir Ismael Abbass, Mazin Anwar Yadgar
142. Assessment of the Understanding of Medical Ethics Subject among Anbar Medical Group Students 777
Waleed AT Al-Ani, Ahmed K. Al-Delaimy
143. Isolation and Identification of Facultative Anaerobic Bacteria from Feces of Pet Dogs 783
*SMA AL-Kubaisi, Omar-Althani Shareef Saed, Jassim Mohamed Suleiman, Mustafa Salah Hasan,
Maher Saber Owain, Ahmed Sami Jarad*
144. Molecular characterization of Eae and Stx_s genes for E. coli O157:H7 isolates from Calves 788
*Jassim Mohamed Suleiman , Omar-Althani Shareef Saed, SMA AL-Kubaisi, Mustafa Salah Hasan ,
Maher Saber Owain , Mohammed Ali Hussein , Ahmed Sami Jarad*
145. Estimation of Serum Cystatin-C as early marker of Kidney Dysfunction in correlation with Serum
Ferritin among β - Thalassemia Major Patients..... 792
Mohammed Abdulrazzaq Assi

146. Comparative Assessment of Patients' Satisfaction in Secondary and Tertiary Outpatients of Marjan Medical City in Babil Across Sectional Study	798
<i>Qais Ismaeel Kadhem, Ameer Kadhim Al-Humairi, Ashraf MA Hussain,</i>	
147. High Levels of Tumor Necrosis Factor-Alpha and Interferon-Gamma in Patients with Gingival Recession	804
<i>Sura Dakhil Jassim , Luma Jassim Witwit, Fatima Malik Abood</i>	
148. Efficiency of Aspergillus Species to Produce the Lipase Enzyme from Various Types of Oil Seeds	809
<i>Thakra Ahmed Hamada⁰, Raghad Saad Abdulkreem⁰, Hadeel Mizher Younus⁰</i>	
149. Seroepidemiology of Toxoplasma gondii Infection in Drivers Involved in Road Traffic Accidents in Baghdad City	814
<i>Dunya N. Ahmed, Salwa. S. Mushin, Mamdooh AR.Mohsin</i>	
150. Therapeutic Evaluation of the Partial Movement of the Center of the Nerve Bundle	820
<i>Imad Kadem Yasser, Ahmed Atshan abdalreda, Abbas mohsin Oleiwi</i>	
151. Investigating the Level of Vitamin E, C and Superoxide Dismutase in Patients with Allergic Asthma and Allergic Asthma with Helminths Infection.....	824
<i>Narjis Abdul Rahman Oudah, Ahmed A. Mohammed, Kareem S. Chead Al-Tea</i>	
152. The Role of Cytomegalovirus (CMV) and Vitamin D in Multiple Sclerosis (MS)	831
<i>Juman Khaleel Al-Sabbagh</i>	
153. Potential Factors Associated with Epilepsy among Epileptic Patients Attending Middle Euphrates Neurosciences Center - Al-Najaf City	837
<i>Sahar Adham Ali , Hayder Ibrahim Ali , Hasan Alwan Baiee</i>	
154. Acute Infective Bloody Diarrhea in Children Below Five Years Admitted to Children Welfare Hospital in Medical City - Baghdad During 2015.....	841
<i>Maral F. Thabit, Radhwan R Hussian</i>	
155. Comparison between Hypertensive and Non-Hypertensive Individuals in the Value of Response to Salt Administration.....	847
<i>K.A Al-hilali, Layth Ibrahim AL-Shibbani, Ali Ayad Jabbar</i>	
156. Effect of Lactic Threshold Exercises using us Ginseng in the Development of Some Functional Variables of the Lungs and Lactic Tolerance and the Performance of Complex Offensive Skills in Basketball Youth	851
<i>Rasha Abdul Ameer Jawad, Rana Fadhil , Hussein Menati Saget , Jaafer Ahmed Mahdi</i>	
157. Preoperative Anxiety and Fears among Adult Surgical Patients in Baghdad Teaching Hospital, Iraq.....	858
<i>Kawther Salman Dawood</i>	
158. The Prevalence of Parasitic Infection in Domestic Chicken: A Review	864
<i>Yassir Dakheel Kremsh Alasadiy, Arshad Naji Alhasnawi, Farhan AlaAllah Eabaid</i>	
159. Hygienic Practices of Street Food Vendors and Schools in Some Iraqi Governorates	870
<i>Luay S. Khaleefah, Hayder N. Salman, Sadeq Muneer Shawkat</i>	

XII

160. Estimation of Serum Lipid Profile among Pre and Post-Menopausal Women in Baghdad City 877
Athraa Fouad Kadhuim
161. Effect of Zinc Oxid Nanoparticles on the Oxidative Stress (Malonaldehyde MDA, Lipid Peroxidation Level LPO) and Antioxidants (GSH glutation)..... 882
Nibras AL-Ibrahemi , Ruqayah Manoon Hasan , Kaiser Alslman
162. Molecular Identification of Sarcocystis Species Infection in Sheep in Karbala Governorate – Iraq 889
Saja A. M. Al-Saadi, Kawther A.M. Al-Mussawi, Hayder A. Muhammed
163. International Crimes and the Legal Basis of the International Committee of the Red Cross in Armed Conflict 896
Heba Eidan Abd Ali Jassim, Sarmad Amer Abbas
164. Physical Preventive Strategies Related to Children with Leukemia from Mothers' Perspective in Al.Basrah Province..... 901
Muntatdher Hasan Khalaf, Nuhad Mohammed Kassem
165. Incidence of Entamoeba Gingivalis and Trichomonas Tenax in Periodontitis and Gingivitis Patients Who Attended to Private Clinics in Babylon Province 906
Fadhil Hassan Alwan Al-Dulaimi , Ausama Abed Alkadhum Alajeely, Yasir Mahmood Ail
166. Iron Oxide Nanoparticles Induced Histological Alteration and Fetal Skeletal Abnormalities in the Embryo of Albino Rats..... 911
Reyim Hameid Kamel, Amel Ali AL-Taee
167. Clinical Characteristics of Headache among a Sample of Iraqi Medical and Dental Students..... 916
Noor S. Mohammed Ali , Rasha Basim
168. Antioxidants Activity of Date Seed Extraction of Some Date Varieties..... 922
Nareeman Adheem Shnaa Al Ghezi, Aum El-Basher H. J. Al-Mossawi, Ali Khudhair Jaber Al-Rikabi
169. Unemployment and Its Role in Increasing Crime Rates within the Iraqi Society..... 929
Ammar Ghali Abdulkadhim El-Eisawy
170. Treatment of Congenital Capillary Hemangioma: Review of 30 Cases in Nasiriyah (2013-2018)..... 934
Ahmed Abdulhussein Kawen, Ahmed Abdulameer Daffar
171. Is Glycosylated Hemoglobin A Marker of Infertility? Prospective Analytic Study 938
Sahar Hamzah Ali Al-Tameemi, Azhar Mosa Al-Toriahi
172. Serum Salusin- α and Salusin -b levels with some Biochemical Parameters in Patients with Major Thalassemia 943
Hiba Ali Numan, Hanaa Addai Ali
173. Isolating Liver abnormalities in CT Scan Images Using Enhancement Based Technique 949
Rabab Saadoon Abdoon , Zahraa Ali Khudair
174. Factors Affecting Self-Care Behaviors of Patients with Heart Failure 955
Zeena Q. Abdulhussein, Daa K. Abd-Ali
175. The Prevalence of Sperm Parameters for Infertile Males in Thi-Qar City..... 961
Sumeya Ghanawy AL-Najjar

176. Histological Study of Pregnant albino Rat Treated with Nickel Oxide Nanoparticles 966
Haneen M. Alsolatane, Amel A. Altaee
177. Potential Risk Factors of Breast Cancer among Women Attending Teaching Hospitals in Babylon Province 971
Hasan Alwan Baiee, Zainab Fadhil Kizar, Huda salman Jasim Suha Sheehan Jasim, Liiala Qies Raheem
178. Epidemiological Aspects of Attention Deficit Hyperactivity Disorder among pupils in Al-Hilla City – Babylon Province –Iraq 978
Adnan H. ALjothery, Hasan Alwan Baiee
179. An Accurate Breast Cancer Detection System Based on Deep Learning CNN 984
Kian Raheem Qasim, Alia Jumaa Ouda
180. The Efficacy and Safety of Cinnarizine in the Treatment of Vertigo in a Sample of Iraqi Patients in Al-Diwaniyah Province 991
Ali Najm Abdullah, Qatarulnada Khudhair Abbas
181. Catalase Gene Polymorphism in Patient with Diabetes Disease Type 1 in Karbala City 996
Abdulridha Mohammed Al-Asady, Farah A. Al-marzook, Thoalffakar A. ALhamed
182. Depression among Patients with Renal Failure Undergoing Haemodialysis Treatment in Holy Kerbala City in Iraq 1002
Ali Kareem Khudhair Al-Juboori , Intisar Abdul Ghani Khudhur, Selman Hussain Faris
183. The Use of Complementary and Alternative Medicine among Diabetic Patients in Nasiriya City 1008
Nahla Saleh Hasan, Murtadha Kadhim Yasir, Qasim Ali Khasal, Mishaal Zoori Jabbar, Abdulrahman Abbas Jasim, Ied Al Sadoon
184. Testosterone and Progesterone Levels, Gene Expression of Androgen and Progesterone Receptors in Albino Male Rats Treated with Phenolic Flower Extract of Hibiscus Rosa - Sinensis L 1016
Rawaa S.A.AL-Azawi. , Faris N. A. Al-hady
185. Nutritional Status of Primary School Children in Babylon Governorate 1023
Ali Jaleel Asser, Hussein Jaseem Mohammed
186. Prevalence Rate of Depression among Ischemic Heart Diseases Patients in Al-Diwaneya Province / Iraq 1030
Abdul Zahra Mohammed Alkafaji, Assel Hamid Risun
187. Deposition of Ta₂O₅ Film on Commercial Pure Titanium Disk by Modified Reactive Plasma Sputtering Technique 1036
Hassan Jawad Farhan, Raghdaa Kareem Jassim, L.Thair
188. Evaluation of the Effect of Endoscopic Sinus Surgery with Medialization of Middle Turbinate 1042
Ahmed Adhab Mayan Alzubiadi, Laith ali Altimimi, Farah Salih Alaaamiri
189. Determination Knowledge of Nurses' Concerning Measurement of Blood Pressure in Emergency Department at Al –Hussein Teaching Hospital in Al-Nasiriya City 1048
Amer Muhasin Naser, Qassim Jawell Odah Abed

XIV

190. Thermal Effects of Laser Assisted Endodontic Treatment on The External Root Surface of Deciduous Teeth (in *vitro* study) 1053
Husam Turki Abbas, Hasanain Ibrahim Khaleel, Inam Oleiwi Murad, Ali Imad Al-Khassaki, Ammar Saleh Alalawi
191. Effect of Some Alcoholic Extracts in Reducing the Fat Content of the Liver Tissue in Rat 1058
Mohammed Hayder Hamad, Nahla Al-Bakri, Abdul- Razak Labi, Duha Adnan Mahmood
192. Knowledge, Attitude and Practice of Mothers to Neonatal Jaundice 1065
Aalan Hadi Al-Zamili, Zainab Allawi Saadoon
193. Measurements of Horizontal condylar inclination by using Cadiax compactII in patients with TMJ clicking before and after different treatments modalities 1071
Hayder Mahdi Idan, Fawaz D. Al-Aswad
194. DCGAN for Handling Imbalanced Malaria Dataset based on Over-Sampling Technique and using CNN1079
Liqaa M.Shoohi, Jamila H.Saud
195. Seroprevalance of Toxoplasmosis Gondii Infection among Pregnant Women in Karbala Governorate 2014-2017 1086
Radha. M. Lefta, Enaas K. AL-Khalide, Murtadha Kanim A.AL-Jebory
196. Fasting Versus Non-Fasting in Assessing Lipid Profile and Complete Blood Picture 1091
Wasan A.Wahab Alsiadi, Abed Sultan Hassan, Malak A. Al-yawer
197. Zinc Deficiency is Associated with Meprin a in Iraqi Patients with Crohn's Disease 1097
Fatima A.Mohammad, Fatin Fadhel Alkazazz, Sura A.Abdlusattar
198. Knowledge Attitudes and Barriers of Undergraduate Medical Students Towards Research in University of Babylon 1103
Nadia Hussein Sahib, Hasan Alwan Baiee, Hadi Mohammad Ali Al mosawi, Zaid Amjed Al-husseini
199. Macrophage Migration Inhibitory Factor (MIF) Gene Polymorphism of Urothelial Carcinoma Patients in Iraq 1110
Ishraq Abdul Ameer Salih
200. Study Impact of Hyperuricemia on the Occurrence of Atrial Fibrillation in Patients Admitted to CCU in Al-Diwaniyah Teaching Hospital 1114
Mazin Zamel Al-Shibani, Hend Saddam Asmaaeel
201. Quality of Life of Parents Having Cancer and Non-cancer Children: A Comparative Study 1119
Awayi Ghazy Abdulkareem, Zhian Salah Ramzi, Jamal Ahmad Rashid
202. Sleep habits and Physiological Penal Gland Calcification (A Magnified Topographical Evolution Study) 1124
Sattar R. AL-Esawi, Ashwan Abdulzahra Hashim, Zhraa Ayad Jabber, Riyadh W. AL-Esawi
203. Investigation of Microbial and Mineral Contamination of Imported Meat 1131
Haider Mashkoor Hussein
204. The Distribution of Hepatitis C Virus Genotypes, Viral Load and Antibody Titer among Iraqi Chronic Hepatitis Patients 1136
Abdel Wahab A. R. Alshaikhly, Zaidoon A. Musa, Ban J. Qasim, Haider F. Ghazi, Wisam J. Mohammed

205. In Vitro Cytotoxicity of Total Alkaloid Extract from *Peganum Harmala* L. Seeds 1143
Hala M. N. Al- Saily, PRabab Omran
206. Psychological Factor Affecting on Performance Thinking among the Pupils: Mentally or Spiritually Concerned with the Aspects in Students' Acquisition 1148
Huda Salem Abdul Hussein, Khaled Rahi Hadi, Saad Hassan Alawi
207. Determination of the Critical Care Nurses Knowledge Toward Enteral Tube Feeding in AL-Hilla Teaching Hospitals (Interventional study) 1153
Kathreen Mohammed Aziz, Sahar Adham Ali
208. Molecular Detection of Pathogenic *Entamoeba histolytica* based on *Amoebapore C* Gene in Fecal Samples of Camels from Babylon Province, Iraq 1158
Qassim Jawad Ameer, Nawras Abdul Bari Madlo'
209. The Role of Hyperglycemia and Coexisting Hypertension in The Development of Diabetic Nephropathy in Type II Diabetes Mellitus 1161
Kadhim Abbas Al-Hilali , Mosa Jaafar Mosa, Ahmed Ali Hussein
210. Risk Factors for Congenital Anomalies in Neonatal Intensive Care Unit in Baghdad City..... 1168
Khatam M. Al-Musawi, Adraa H. Shawq, Zainab Majeed, Shahad Zaid, Huda Ibraheem
211. Genetic Polymorphisms of Catalase Enzyme with Hypertension Patients in Babylon Governorate..... 1175
Hussam Abbas Dawood , Farah A. Al-marzook , Rabab Omran
212. Comparison Study of Major Thalassemia, Thalassemia Intermedia of Iraqi Patients and Control Groups for Effectiveness of Liver Enzymes..... 1181
Shatha H. Jwaid, Abbas Mehsen Gata
213. Prevalence of Stress and Coping Behaviors among Medical Students at University of AL-Qadisiyah 1185
Mohammed AL-Zobaidy, Adyan Mostafa, Zahraa Hussien, Mariem Humed Redah, Tagreed Adnan, Haneen Mohammed
214. Assessment of Self-Esteem among Patients with Major Depressive Disorder in Sulaimani City 1191
Taha Ahmad Faraj , Salwa Shakir Muhsin
215. Evaluation of an Education Program for Elementary School Teachers Regarding Post-Traumatic Stress Disorder among Pupils in Mosul City..... 1198
Nawaf Mohammed Dhahir, Saja Hashem Mohammed
216. Histological Changes in Liver Tissue Resulting from Hydatid Cyst Infection: Comparison between Sheep and Cattle in Iraq..... 1205
Intidhar Mohammed Mnati, Baydaa Hussain Mutlak, Noora Dhyaaldain Abed
217. The Effect of Special Exercises by Using Training Methods to Assist in the Development of Some Motor Abilities and Handstand Skill of Still Rings for Young People 1211
Anmar Atshan Khargan, Sadeq Yyousif Muhammad, Hekmat Abdul Sattar Alwan
218. Psychological Analysis of Jenang Kutei Judges in Delivering a Verdict of Matai Bilai and Cuci Kampong (Purification Ritual) in Rejang Lebong Regency, Bengkulu Province, Indonesia 1217
Emma Ellyani , Khudzaifah Dimiyati, Absori Absori, Kelik Wardiono, Arief Budiono

XVI

219. Mechanism of Family-coping in Treating Patient with Schizophrenia Viewed from Factors that Affected it at Public Health Center of Balowerti, Kediri 1222
Byba Melda Suhita, Prima Dewi Kusumawati, Heri Saputro, Ahmad Yusuf
220. Effectiveness of Stress-Adaptation and Cognitive Behavior (SACB) Model for Independent Health Recovery for Clients with Coronary Heart Disease in the Community 1228
Heni Nurhaeni, Ratna Aryani, Suryati B., Ani Nuraeni
221. The Influence of Massage Therapy on Children Body Temperature which Fever..... 1235
Lia Herliana, Ai Cahyati
222. Celiac Disease in Children with Short Stature (Incidence and Morphometric Study)..... 1241
Mohammed Abdul-Aziz. Hayawi
223. Association of Periventricular Edema Thickness and Optical Perineal Thickness in Hydrocephalus Non Communications by Magnetic Resonance Imaging Examination..... 1248
Noor Anita Humaira, Sri Andreani Utomo, Hari Basuki
224. Outcome of Open Intraperitoneal Dual Mesh Versus on-Lay Mesh for Incisional Hernia Repair 1253
Jassim Mohammed Auib Al Taha
225. Teachers' Knowledge Regarding Attention-Deficit Hyperactivity Disorder between Pupils at Elementary Schools in Mosul City 1259
Mohammed Ahmed Sultan Al-Wily, Luay Amjed Mahmood Al-Waly, Radhwan Hussein Ibrahim
226. Antibacterial Properties of New Cement Based Capping Material Prepared from Egg Shell and Biopolymer (Chitosan) 1265
Hemn M. Sarmamy, Dara H. Saeed
227. Bow tie Model of Palliative Care as an Early Approach to Providing care for Patients with Heart Failure..... 1272
Hossein Jafarizadeh, Yaser Moradi, Alireza Rahmani, Amir Mohammad Amini
228. Community Acquired Pneumonia; Chest X-Ray Findings in Three Different Times 1276
Kosar Mohamed Ali
229. Variation of Alkalinephosphatase and Transaminases Levels in Different Trimesters of Pregnancy Iraqi Women 1283
Tariq Hafdhi Al-khayat and Rawaa Muayad Al-Quzweny
230. Based Assistance Continuum of Care Can Increase Family Independence in Overcoming Health Problems Pregnant-Women 1289
Rita Yulifah
231. Overweight and Obesity Associated Factors among High School Students: A Cross Sectional Study in Erbil 1296
Sarhang Qadir Ibrahim, Tariq S. Al- Hadithi, Kameran Hassan Ismail
232. The Influence of Disaster Counseling with Animation Video on Preparednes Students in Elementary School in Palu..... 1302
Imtihanah Amri, Ansariadi, Ridwan Amiruddin, Sukri Palutturi, Anwar Mallongi, Rosmala Nur, Nur Endang Sari

233. The Influence of Breathing Ball Technique on Length of Labor in Phase I Active in Independent Practice, Midwifery Sriwati..... 1307
Muliani, Hastuti Usman, Aspia Lamana, Abd Farid Lewa, Andi Ritna Marumu, Nasrul, Anwar Mallongi
234. Cardiac Emergency Prevention Through Personal and Environmental Factors 1312
Bambang Guruh Irianto, Loetfia Dwi Rahariyani
235. Investigation of cpa. and zpx. Genes in Cronobacter sakazakii Isolation from Clinical Specimens in Thi-Qar Province and 1318
Karrar Khalaf Al-aawadi, Qasim Hassan Weda'a
236. Comparison of Hemorrhoidectomy by Ligasure with Conventional Milligan Morgan's Hemorrhoidectomy..... 1324
Raisan Mahdi Shoramah Aljabery, Adil Abdul Samad Jaber
237. Women's Reactions and Health Disorders Caused by Abuse During the Pregnancy-Postpartum Period.. 1329
Rosmala Nur, Siti Ika Fitriyah, Anwar Mallongi
238. The Culture and Age of First Marriage on Female Teenagers in West Marawola..... 1335
Rosmala Nur, Muh. Asep Dwitama, Muh. Fadly Nurhaya S Patui, Sitti Radhiah, Elvaria Mantao, Anwar Mallongi
239. Mother's Behavior in Pregnancy-Puerperal Treatments and Reproductive Health Disorders..... 1341
Rosmala-Nur, Sulaeman Mamar, Indah Puspasari Kiay Demak, Elli Yane B, Radiah, Muh.Rusydi, H, Erina Thursina R,
240. The Influence of Wedge Sea Hare (*Dolabellaauricularia*) Extract and Papaya Juice on Hemoglobin (Hb) and Ferritin Levels of Mice Strain (Balb / C) with Anemia..... 1347
Sultan Akbar Toruntju, La Banudi, Purnomo Leksono, Mochammad Rahmat, Wa Ode Salma
241. The Relation between Psychological Empowerment and Job Satisfaction among Nurses 1353
Rifaie Yaseen Hameed Al-Hussein
242. Estimation the Level of Follicular Fluid Follistatin in Women Undergoing Intracytoplasmic Sperm Injection..... 1360
Baydaa Lateef Hameed, Mutaz Sabah Ahmeid, NihadKhalawe Tektook, Hashim Abdulsattar Jabar
243. Serum α -Klotho Level in the Patients Subjected to Hemodialysis in Association with Lipid Profile 1366
Hibah Hasan Ibrahim, Mutaz Sabah Ahmeid, NihadKhalawe Tektook, Hashim Abdulsattar Jabar
244. Molecular Detection of Some Antibiotic Resistant Genes of Bacteria Isolated from Bloodstream Infections of Hemodialysis Patients 1373
Najlaa Bakr Shaker, Khalid Omar Mohammed Ali
245. Assessment of Butchers Attitudes and Practices Toward Food Safetyin Thi-Qar governorate in Iraq 1379
Sameeha Naser Abed, Zahraa Zuhir
246. Nutritional Status for Patients with Hypertension in Hemodialysis Units at Baghdad Teaching Hospital. 1386
Shaymaa M. Hussein
247. Relation of Epstein Barr virus with Interleukin-6 Level among Women with Breast Cancer in Ramadi City 1393
Arkan AbdullahAbbas, Israa Hashim Saadoon

XVIII

248. Assessment of Nutritional Status of Under Five Years Children in Relation to Their Birth Space in Shirqat City 1399
Enas AbdulahYaseen, Nahid Ahmed Hassan
249. Detection of blaCTX-M gene in Klebsiella sp. Causing UTIs in Al-Yarmouk Teaching Hospital 1404
Marwan Majeed Ibrahim, Ammar Hameed Howaidy, Abeer Nahy Hamdy
250. Alterations in Antioxidants and Trace Element with Interleukin 6 Level in β Thalassemia Major Patients..... 1410
Janan I. Mohammed, Shihab A. Al-Bajari, MotazA.AL.Akashe, Alaa N. Totanjee
251. Overweight BMI with and without Regular Exercise in Secondary School Students in Tikrit City 1416
Athraa Essa Ahmed, Shaimaa Essa Ahmed
252. Genotyping Diversity of Echerichia coli isolated from UTI in Iraqi Patients 1421
Tabarek Saeb Sabri, Amal A.Kareem
253. Evaluation of the use of HbA1c in the Diagnosis of Impaired Fasting Glucose 1428
Raid D. Hashim; Israa Nathir ; Shayma Salman Ali
254. Evaluation the Serum Level of Melatonin in Iraqi Patients with Polycystic Ovarian Syndrome 1434
Ahmed Abduljabbar Hameed, Mutaz Sabah Ahmeid
255. Relation of Some Heavy Metals with Male Infertility 1440
Hussein M. Ali, Qater, Al-Nada A. Kanaem, Mohammad Oda Selman
256. Immunological role of TLR-7 , IL-17A and IL-10 In a Sample of Iraqi Chronic Renal Failure Patients .. 1446
Asaal Abdul-Ghani Shyeea, Mohammed Abdul-Daim Saleh; Nihad Khalawe Tektook
257. Protective Immunity against Virulence Uropathogenic Escherichia Coli in Mice..... 1452
Hussam Sami Awayid, Saif Ali Mohammed, Adnan Kamel Shebeeb
258. Serological and Immunological Determination of Auto-Antibodies Against Myositis-Associated Antigens in Systemic Lupus Erythematosus Patients Using A Novel Immunoblot Assay 1459
Alaa Younis Mahdy Al-Hamadany; Manal Dheyaa Mohammed ; Hussein Abid Sharqi AL-luhaibi , Zainab Adnan Hassan Hadeed
259. The Effects of HIV/AIDS Education on Knowledge, Attitude, and Satisfaction for AIDS Prevention Self Massage on College Students in Korea 1466
Ji Min Lee, Sung Jung Hong, Eun Hee Kim
260. The Study on the Empathy of Nurses and the Quality of Nursing Provided to Hospitalized Children Perceived by Nursing Students..... 1472
Bo-Yun Huh, Jae-Woo Oh, Mi-Ran Kim
261. Relationship between Attitudes to Child Nursing College Students Perceived Punishment, Child Abuse Awareness and Knowledge 1478
So-Ja Jeon, Jae-Woo Oh
262. Reorganization of Learning Objectives Using Ontology Technique 1484
Myung Mi Shin, Su-Jin Han, Hye-Sook Choi

263. Study on the Relationship Trend between Chronic Diseases and Oral Health according to Diabetes Treatment: Focusing on the Local Health Survey for 2015, 2016 and 2017..... 1490
Hye-jeong Hwang, Kwon-Seob So, Kisang Kwon, Kyung-hee Kang
264. The Effects of Dialectical Behavior Therapy(DBT) Skill Training on Depression and Alcohol Abstinence Self-efficacy of Patients with Alcohol Use Disorder..... 1497
Jung-hee Park, Se-jin Ju, Gyun-Young Kang
265. The Effect of Parenting Attitudes and Major Satisfaction on Career Decision Making Self-Efficacy in undergraduate Students..... 1504
Kyung Sook Kim
266. Changes in Chemical Structure of Iopamidol Contrast Agents According to Radiation and Environmental Conditions..... 1511
Beom-Hee Han, Cheong-Hwan Lim, Sung-Hun Jeong
267. Factors affecting the Post-Anesthetic Recovery Score and Length of Stay in the Recovery Room in Elderly Patients with Hypertension..... 1516
Sunmi Kim, Myoungjin Kwon
268. Influencing Factors on Happiness of Nurses in General Hospitals 1523
Sung-Yun Ahn, Myoung-Jin Kwon
269. Cancer Screening Findings in Korean People with Disabilities: 2016-2017 1529
Soo-Kyung Bok, Youngshin Song, Ga-Won Seo, Yeon-Yong, Kim, Seongjun Ha
270. National Health Screening Program Non-Participation Rates Among Koreans with Brain Injury-Based Disabilities: 2016–2017 1533
Youngshin Song, Miyoung Lee, Soo-Kyung Bok, Ancho-Lim, Yeon-Yong Kim, Seongjun Ha
271. Comparison of Ventilation Volume and Airway Pressure of an Advanced Airways in Virtual Reality Ambulance Simulation 1540
Sang-Gyun Roh, Jee-Hee Kim
272. Effects of Social Support and Life Stress of Women in Climacterium on Meaning of Life..... 1547
Ji-Woo Han
273. The Effect of Adult Attachment Types, Gender Role Attitude on the Heterosexual Relationship Satisfaction in University Students..... 1552
Hee Jeong Kim
274. The Effects of Economic Stress, Career maturity and Major Satisfaction on the Job Stress in Third and Fourth Grade Students of University..... 1558
Hee Jeong Kim
275. Major Factors Having Influence on the Subjective Happiness of Korean Youth; From the 13th KAHBOS Data 1564
Weon-Hee Moon, Myoungjin Kwon
276. Effects of Intervention on Home-Based Environmental Counselling for Children with Severe Allergic Diseases 1571
Chae-Bong Kim, In-Soon Kang, Hyo-Sun LEE

XX

277. Differences of Emotional Intelligence, Self-Effectiveness and Job Stress Levels by ambulance worker Personal Characteristics..... 1578
Sang-Gyun Roh, Keun-Hee Kim, Jee-Hee Kim
278. Influence of Job Satisfaction and Burnout on Nursing Service Quality in Long-Term Care Hospitals..... 1585
Hyojin Won, Sung-Yun Ahn, Young-Ju Kim
279. Antimicrobial Effect of Cinnamon Oil Against Oral Microorganisms 1591
Yeo-Jin Jeong, Jun-Seon Choi
280. Study on Admission Motivation and Institution Selection Intention of Elderly Residing in Long-Term Care Institutions..... 1595
Yun-Jeong Kim, Boo Hwan Ahn, Kyong Ja Im
281. The Effect of New Nurse's Peer Satisfaction and Educational Satisfaction on Clinical Performance 1601
Myoungjin Kwon, Sun Ae Kim
282. Diagnostic Performance of Multiparametric MR Imaging According to the Location of Prostate Cancer 1608
Jihae An, Keum Won Kim, Jae Young Seo, Young Joog Kim, Min Jae Yoon, Dong Hyun Oh
283. A Study on the Awareness of Community Public Health Project among the Employees in The Public Health Center..... 1614
Bo-Woo Lee
284. The Health Care Needs of Local Residents in Korea 1621
Misoon Jeon
285. Health Care Needs According to the Life-Cycle of Community Residents..... 1628
Misoon Jeon
286. Patients and Guardians' Perception on Comprehensive Nursing Care Services..... 1634
Kyung-Sook Kim, Gaeyoung Kim, Hye-gyeong Cha
287. Study on the Subjectivity of Medical Professionals Towards Pet Robots 1641
Sunyoung Jang
288. Study on the Relationship between Major Satisfaction, Career Resilience and Career Decision-Making Level 1646
Kihun Ye, Soonyoung Yun, Shinhong Min
289. Manufacture and Useful Evaluation of Educational Mammography Phantom..... 1652
Dong-Hee Hong
290. The Effects of Hypertension, Dyslipidemia, Myocardial Infarction, and Angina Pectoris on Stress by Cardiovascular Diseases 1658
Yoon-Ho Lee, Hae-Ryoung Park, Sang-Sub Park
291. An Analysis of the Risk of the Infection Disasters by Legal Infectious Disease Outbreak in South Korea 1665
Gwang-Seok Kim, Hae-Ryoung Park, Sang-Sub Park
292. Factors Affecting Nursing Work Performance of Medium Sized Hospital Nurses 1672
Ji-Hyeon Jeon, Sung-Ju Park

293. Effects of Applying Flipped Learning to Simulation Training in Nursing Students..... 1679
Hyun-Jung Kim, Dahye Park
294. Development of Multifunctional Cosmetic Products with Anti-Photoaging Effect..... 1685
Eun-Suk Kim, Hye-Jin Kwon
295. A Study on Improvement of Quality of Care-givers to Long Term Care Old Age..... 1691
Do-Young Lee, Joo-Young Lee
296. Factors Affecting the Clinical Competency of Nursing Students in Pediatric Nursing Clinical Practice... 1698
Sung-Yun Ahn, Young-Ju Kim
297. Development Strategy for National Fitness Award 100 via comparison and Analysis of the Korean Government's Health Policy Projects..... 1704
Mi-Suk Kim, Sang-Wan Jeon
298. The Factors affecting Burnout of the Small and Medium Hospital Nurses 1709
HyunMee Park, KyungSook Kim
299. Self-efficacy Mediating Effect in Health Communication Campaign..... 1716
Jin-Woo Lee
300. The Dual Mediating Effects of Self-esteem and Hope in the Relationship between Boss's Incivility and Life Satisfaction 1722
Yeoun Kyoung Hwang, Dong Hyun Yoon, Chang Seek Lee
301. Study on Minimum Transmission Dose for Establishing X-Ray Imaging..... 1728
Sinyoung Yu
302. The Effect of Verbal and Non-verbal Violence Experienced at Clinical Training Institutions on Major Satisfaction of Dental Hygiene Students 1734
Jung-Eun Ha, Ki-Hun Ye
303. The Claim State of Dental Institutions for Payment from the NHIC 1739
Bo-Kyoung Oh, Eun-Mi Yoo, Min-Young Kim, Hye-Sook Choi
304. Measurement and Analysis of Exposure Dose According to Radiological Survey Films of Dental Hygiene Students in Oral Imaging Practice 1745
Kam Ji Young, Yamaguchi Tokutaro, Lim kun Ok
305. The Effect of Action Observation Training Combined with Intrinsic Muscle Stimulation on the Upper Limb of Function in Stroke Patients..... 1750
Ha-Na Kim, Bo-Kyoung Song, So-Young Han, Jung-Woo Jeong
306. Recognition of Health and Non-Health Care Related College Students on the Safety Management of Dental Radiography 1755
Sun-Mi Lee, Jung-Eun Ha, Min-Ji Kim
307. Relationship between Pain-induced Temporomandibular Joint Pain According to Cell Phone Use Frequency 1761
Sun-Mi Lee, Jung-Eun Ha, Min-Ji Kim

XXII

308. The Effects of Nursing Ethics and Major Satisfaction on Patient Safety Management Activities of Nursing Students..... 1766
Eun-Ju Kim, Seung-Ju Kang
309. The Effects of Maternity Video and Simulation Based Education on Critical Thinking, Interpersonal Relationship, Self Leadership and Major Satisfaction 1772
Seung-Ju Kang, Eun-Ju Kim
310. Differences of Muscle Activities of Various Bridge Postures Using Thera-band on the Stable Surface ... 1778
Seol-Ah Kang, Soo-Jeong Kwon, Dong-Yoep Lee, Ji-Heon Hong, Jae-Ho Yu, Jin-Seop Kim
311. A Comparison of Muscle Activity Depending on Shoulder Joint Flexion Angle When Conducting Kettle Bell Swing..... 1783
Ha-Young Baek, Su-Jeong Seol, Dong-Yoep Lee, Ji-Heon Hong, Jae-Ho Yu, Jin-Seop Kim
312. Change in Lower Extremity Muscle Activity with Visual and Noises During Walking 1788
Eun-Hye Kim, Da-Hyun Lee, Su-Bin An, Dong-Yoep Lee, Ji-Heon Hong, Jae-Ho Yu, Jin-Seop Kim
313. Immediate Changes of Shoulder External Rotation Exercise of Various Angle on the Distance of Subacromial Space 1793
Da-Young Choo, Hae-Young Lee, Seung-Hee Jang, Dong-Yoep Lee, Ji-Heon Hong, Jae-Ho Yu, Jin-Seop Kim
314. Effects of Balance Training Using a Wii Fit Balance Board on Balance, Gait and Activities of Daily Living in Patients with Parkinson Disease: A Pilot, Randomized Controlled Trial..... 1799
Jong-Hoon Moon, Jin-Hwa Jung, Hwi-Young Cho
315. Antibacterial Activity of Essential Oils Against Streptococcus Mutans 1804
Young-Soon Choi, Seoul-Hee Nam
316. A Study on the Emotional Intelligence of Optometrist 1810
Ki-Hun Ye, Jung-Eun Ha
317. The Effect of Cardiac Arrest Simulation Training Using Mechanical CPR Device on Chest Compression Quality of Paramedics in Pre-Hospital 1816
Ji-Won Ahn, Byung-Jun Cho
318. Actual Pressure Ulcer Awareness of a Person in Charge of Pressure Ulcer Management 1822
Ji-Hoon Choi, Cheong-Hwan Lim, Sung-Hun Jeong
319. The factors affecting on Turnover Intention of Nurses 1827
Sung-Ja Yoon
320. Three-dimensional Evaluation of Maxillary Sinus Volume in Different Sex Groups Using Cone-beam Computed Tomography 1833
Eun-Young Jeon, Jeong-Hyun Lee, Sa-Beom Park, Jong-Tae Park
321. Development of Personal Safety Education Program for Nursing Students Using Hybrid Application 1838
Sang-Mee Koo, Rae-Eun Kim
322. Development and Evaluation of Educational Program to Prevent Cervical Cancer among Vietnamese Immigrant Women..... 1844
Tae-Im Kim, Sang-Mee Koo

323. A Study on the Effect of Eclipta Prostrata Extract and MTS on the Improvement of Scalp Health and Prevention of Hair Loss for Workers in Their 20s and 30s..... 1850
Chang-Seok Lee, Joo-A Kang, Gyeong-yeon Kim, Gyu-Ri Kim
324. A Study on the Selective Strengthening Exercise of the Quadriceps Muscle According to Various Squat Types 1857
Ga-Ram Jeon, Yi-Won Yu, Motomi To, Ji-Heon Hong, Jae-Ho Yu, Jin-Seop Kim, Dong-Yeop Lee
325. Change of Serratus Anterior Muscle Thickness According to Knee Flexion Angle During Knee-Push Up Plus Exercise on Sling 1863
Yun-Ji An, Ye-Ji An, Ji-Heon Hong, Jae-Ho Yu, Jin-Seop Kim, Dong-Yeop Lee
326. A Study on the Recognition of Child Abuse and Countermeasures..... 1869
Shinhong Min
327. Influencing Factors on Mid-Life Well-Being 1874
Hae-Kyung Chang
328. Effectiveness of Virtual Reality Based Cognitive Rehabilitation on Cognitive Function, Motivation and Depression in Stroke Patients 1880
Chang-Hyung Lee, Ye-Soon Kim, Jin-Hwa Jung
329. Development of a Phantom for Low Dose Mammography 1887
Chang- Gyu Kim
330. Medication Supportive Behavior of Mothers with Children with ADHD: A Structural Equation Model.. 1893
Myeong-hui Choe, Hyunju Park
331. Comparison of the Effects of Standardized Patient-based Simulation Education and Clinical Practice Education for Preoperative Nursing Care for High-risk Pregnant Women..... 1900
Juhee Hwang, Hyunju Park
332. Antimicrobial Activity of Coptischinensis Extract against Dental Caries 1907
Yu-Ri Choi, Jung-Ok Choi, Seoul-Hee Nam
333. Analysis of Depression and Stress Trends of Families Receiving Basic Life Support for Dementia Patients: Based on the Community Health Survey in 2015, 2016 and 2017..... 1913
Kyung-hee Kang, Hye-jeong Hwang
334. A Study on the Adjustment to the College Life: Focusing on Mediated Effect of Self-Differentiation..... 1920
Weon-Hee Moon, Jeong-Yeon Kim
335. Study on the Oral Health Attitude and Behaviour and the Changes in Dental Plaque According to the Use of Qraycam 1926
Hyun-Kyung Kang
336. Differences of Passive Ankle Stiffness in Post-Stroke Hemiplegia by Varying Angular Velocity between the Paretic and Non-Paretic Side..... 1931
Dae-Yeon Lee, Wan-Young Yoon
337. Factors Affecting Subjective Health Status in Adult Male Workers with Metabolic Syndrome Using Seventh Korean National Health and Nutrition Examination Survey (KNHANES, 2016-2018)..... 1936
Lee Kyongeun

XXIV

338. Factors Influencing Self-rated Health Status in Middle-aged Women with Osteoporosis: Based on the 7th Korea National Health and Nutrition Examination Survey 1943
Kyongeun Lee
339. A Study on Factors Affecting Communication Ability of Korean Nursing Students 1949
Young Hee Jeong, Mi Jin Kim
340. The Effects of ICT-based Public Health Center Mobile Health Care Project on Adult Health Risk Factors 1955
Young Ju Lee
341. A Study on the Subjectivity of Organ Donation for Adults 1961
Hye-Won Jeon, Dong-Hee Seo
342. Attitude about Advanced Directives among Middle-aged Using Q Methodology 1966
Mi-Young Chon, Hye-Won Jeon
343. Effects of Smartphone Addiction on Radiology Students' Interpersonal Satisfaction..... 1971
Yuxin Huang, Hong-Ryang Jung, Cheong-Hwan Lim
344. Effects of Cognitive Exercise Therapy on Tactile Sensations of the Hands and Activities of Daily Living in Stroke Patients 1976
Jong-Hoon Moon, Jin-Hwa Jung, Hwi-Young Cho
345. Effects of Voice Quality Improvement Program for Professional Voice Users with Functional Voice Disorders..... 1981
Jingren Wang, Hyunju Park
346. The Study of the Correlation between Cognition Function and Quality of Sleep in the Elderly 1986
Ju-Young Park, Yeong-Ae Yang
347. Effects of Acute Exercise Intensities on Blood Lipid and Growth Factors in Middle School Students with Intellectual Disabilities 1990
Hong-Young Jang, Mihyun Lee
348. Comparison of Blue Light Blocking Effects of Tips and Tinted Lenses for Dental Light Curing Machines..... 1997
Sook-Jeong Lee
349. Difference of Health Consciousness According to Living Environment and Economic Level of the Elderly in the Urban-Rural Complex Area 2002
Do-Jin Kim, Jong-Hyuck Kim, Il-Young Cho
350. Effects of 8-Week High Intensity Combined Exercise on Body Composition, Blood Lipid and CRP in Obese Middle Aged Men..... 2008
Do-JinKim, Jong-Hyuck Kim, Gyu-Ri Kim
351. Effects of Lower Body Muscle Exercise on Blood Lipids and Homocystein..... 2014
Do-Jin Kim, Jong-Hyuck Kim
352. Anticariogenic effect of *Sambucuswilliamsii* var. *Coreana* NAKAI (*S. Williamsii*) Extract on Against *Streptococcus Mutans*..... 2020
Seoul-Hee Nam

353. Development of a Medical Phantom to Evaluate the Function of Low Dose 3D MDCT 2025
Chang- Gyu Kim
354. A Study on the Optometrist' Images between Major Students and Non-major Students 2031
Ki-Hun Ye, Jung-Eun Ha
355. The Study of Swedish Massage on Anxiety Situation and PPT in Stressed Office Workers..... 2037
Jae-Gun Seo, Su-Hee Choi, Dong-Yeop Lee
356. Effects of Interest Inducing Activities Programs on the Attention and Self-efficacy of School-aged Children 2042
So-Young Han, Ha-Eun Choi, Min-Ji Kang, So-Hee Kim, Sang-Hee Moon, Su-Jeong Yoon, Geun-Hyung Choi, Jung-Woo Jeong, Ha-Na Kim, Bo-Kyoung Song
357. Comparison of Nurse Teachers and General Teachers and Nurses Happy Planet Index 2047
Oe-Nam Kim, Na-Rae Oh, Su-Yeon Seo
358. Cognition and Behavior of Oral Health in Preschool Parents 2053
Su-Jung Lee, Hong-Ryang Jung, Cheong-Hwan Lim, Jong-Hwa Jang
359. Big Data Analysis for Child Well-being on Academic Research..... 2058
Jung-ho Bae, Eunae Burm
360. Effect of Sanitizers and Disinfectants in Staphylococcus Saprophyticus 2063
Jung-ok Choi, Yu-hee Lee
361. The Effect of Task-based upper Limb Training on Activities of Daily Living and Upper Limb Function in Chronic Stroke Patients 2069
Bo-Kyoung Song, So-Young Han, Jung-Woo Jeong, Ha-Na Kim
362. The Effects of Task-oriented Mirror Therapy on the Upper Extremity Function and Brain Activation in Chronic Stroke Patients 2074
Kyung-ju Lee, Man-Seok Han
363. An Effect of Communication Training Program on Communication Skills and Empathic Ability..... 2079
Seon-Ju Sim, Su-min Hong
364. A Study on the Standardization of the 6-Minute Walking Test for Elderly Koreans..... 2085
Sang Woong Park, Se-Youn Kim, Hae-In Kim, Dong Jun Sung, Wonjong Yu
365. Study on the Relationship between General Health and Oral Health According to Diabetes..... 2090
Hye-jeong Hwang, Kyung-hee Kang
366. Analysis of Factors Affecting the Depression and Quality of Life in the Family Taking Care of Dementia Patients 2097
Kyung-hee Kang, Kwon-Seob So, Hye-jeong Hwang
367. Effects of Low-Dye Taping Applied to Chronic Stroke Patients on Gat Speed 2104
Eun-Ja Kim, Dae-hun Kim, Shin-Jun Park
368. The Effect of Participation in Mentoring Program on Adjustment to College Life, Major Satisfaction, and Interpersonal Relationship Skill in the Nursing Students 2109
Eun-Hee Shin, Gyun-Young Kang

XXVI

369. Evaluation of Effective Sound Insulation Method for Noise Generated by MRI 2115
Jung-Hoon Lee
370. Impact of Trademark Rights on a Company's Financial Performance: Focusing on Pharmaceutical Industry in South Korea..... 2120
Myung-Sun Na, Kwan-Sik Na, Incha Park
371. The Effect of Recognition Level of Korean Elderly Long-Term Care Insurance System on Effectiveness Recognition..... 2126
Hye-yeong Do, Yun-Jeong Kim
372. The Effect of Power of Agility of Core Stabilization Exercise by the Musical Type..... 2132
Myung-Chul Kim, Hae-In Kim
373. Policy Roadmap for Development Process and Re-establishing Women Friendly City Policy in Korea- Focusing on the Case of Dangjin City..... 2138
Yun-Jeong Kim, Hyun-Jung Kang, Min-Jung Kim, Sun-Young Seo, Sang-Jin Lee, Jun-Ho Lim, Jin-Ah Chung
374. Effectiveness of Video Recording and Self-Evaluation for Skill Training in Undergraduate Nursing Education..... 2143
Mi-Ran Eom, Sun Kyung Kim, Mi-Hyeon Park
375. The Effects of Depression and Anxiety on Psychological Well-being of College Students: Focusing on the Emotional Perception Clarity 2149
Young Joo Lee
376. A Comparative Study on Life Satisfaction on the Disabled Elderly and the Disabled Middle Aged..... 2155
Da-Yeon Shim, Su-Sun Park
377. Evaluation of Chest Compression Quality and Appropriateness in the Pediatric Cardiopulmonary Resuscitation..... 2161
Jin-Hwa Kim, Jee-Hee Kim, Hyun-Jung Kim
378. Factors Influencing Internet Game Addiction in Middle School Students..... 2167
Eun Young Do, Yeon Ran Hong
379. Factors Influencing on-line Game Addiction of Children..... 2173
Yeon Ran Hong, Eun Young Do
380. A Study on the Factors Affecting Depression of the Disabled People in Korea..... 2179
Da-Yeon Shim, Su-Sun Park
381. A Study on the Status and Improvement of Physical & Mental Health for Middle-aged People..... 2185
Sunghui Cho, Su-Sun Park, Kyoung-Ran Hwang
382. Skin Care Behaviors for Wellaging in Male Adults..... 2190
Jae-Young Park, Myung-Sun Lee
383. Relationship between Body Image, Growth Mindset, Grit, and Successful Aging in Korean Elderly: Moderated Mediation Effect of Hope..... 2196
Yeoun Kyoung Hwang, Chang Seek Lee

384. Effects of Various Deadlifts on the Muscle Activity of the Trunk and Lower Extremity 2203
Byoung-Hyoun Moon, Young-Jin Lim, Ji-Won Kim
385. Factors Influencing Nursing Performance of Clinical Nurses: Focusing Communication Competency and Job Satisfaction 2208
Hyo-Suk Song, Sung-Hwan Bang, Byung-Jun Cho, So-Hee Lim
386. The Effects of Domestic Abuse Experience and Stress on Depression of Adolescents: The Moderated Mediation Effect of Teacher Relations 2214
Chang-Seek Lee, Eun-Kyung Ryu
387. The Effect of Workers' Smartphone Addiction on Depression: Dual Mediation of Growth Mindset and Impulsiveness 2221
Chang-Seek Lee, Ha-Young Jang
388. Perceived Health Status, Psychological Well-Being and Health Promotion Behavior of College Students 2227
In-Sook Park, Tae-Kyung Kim
389. Risk Analysis of Metabolic Syndrome Affecting Osteoarthritis: Focused on the 6th Korean National Health and Nutrition Survey 2233
Jin-Hee Kim, Weon-Hee Moon
390. The Effects of Critical Thinking Disposition, Perception of Others and Empathy on Communication Competency among Students Majoring in Nursing 2238
Hyea-Kyung Lee, Eun-Hee Shin
391. Changes in the Health-related Quality of Life among Korean Adults: Data Comparison between 2007 and 2017 2245
Myoung-Hee Kim
392. Effects of VR-based Rehabilitation Video for Visual Vertigo on Autonomic Nervous System and Subjective Immersion and Interest in the Elderly 2252
Chung-Yoo Kim, In-Bae Kim, Jong-Ho Kang
393. Factors Affecting Health-related Quality of Life for Subjects with Breast Cancer 2258
Myoung-Hee Kim
394. The Influence of Self-Efficacy, Self-Esteem, Aging Anxiety on Successful Aging in Middle-Aged Women 2265
Jin-Hui Cho
395. The Influence of Social Network and Depression on Successful Aging in the Elderly 2271
Yeon-Sook Kim, Jin-Hui Cho
396. The Effect of Healthcare Service of Employees at a Workplace Using Mobile 2277
Byung-Hyun Noh, Mi-Joon Lee, Seong-Gu Kwon, Byoung-Ki Kim
397. Actor and Partner Effects of Self-Efficacy and Social Support on the Colorectal Cancer Screening Behavior of Husbands and Wives: Based on the Actor-Partner Interdependence Model 2283
Jisun Lee

XXVIII

398. The Correlation of the Star Excursion Balance test, Star Excursion Balance Test, Visual Feedback Balance Test 2288
Young-Jin Lim, Byoung-Hyoun Moon Ji-Won Kim
399. Study the Association between the Thyroid Autoimmunity Markers and Polycystic Ovary Syndrome in Euthyroid Women 2293
Nassrin Malik Aubead
400. The Effect of Slow Stroke Back Massage, Cold-compress and Warm-compress on Superokside Dismutase and Malondialdehyde Levels in Primary Dysmenorrhoea 2299
Mukhoirotin, Kurniawati, Zuliani
401. Modification of Chicken Egg Shell and Lime Extract (*Citrus amblycarpa*) for Minimizing Lead (Pb) Level on Blood Cockles (*Anadara granosa*)..... 2305
Narwati, Hadi Suryono, Setiawan
402. Illnesses as an Excuse for Corrupt Indonesian Officials to be Free From Legal Liabilities 2311
Yogi Prasetyo, Fery Irawan, Sugeng Wibowo, Arief Budiono, Indiantoro
403. Model of Social Support for Adolescent Mental Health with Disabilities 2316
Tri Riana Lestari, Atikah Adyas, Agusni Karma, Elsy Rachmawaty, Yopi Harwinanda Ardesa, Ester Syeffty Pasaribu, Mayke Ruth Loyali
404. The Implication of the Indonesian Local Regulations Revocation towards the Local Economy and Out of Pocket Healthcare..... 2322
Hartiwiningsih Hartiwiningsih, Isharyanto Isharyanto, Asri Agustiwi
405. The Patient Safety Model within Decubitus Ulcer Patients in Hospital: Based on the Organizational Citizenship Behavior and Knowledge Management 2327
Tri Johan Agus Yuswanto, Naya Ernawati

Based Assistance Continuum of Care Can Increase Family Independence in Overcoming Health Problems Pregnant-Women

Rita Yulifah

Midwifery Department, Health Polytechnic of Malang

Abstract

Pregnancy is a natural process during pregnancy does not rule out the possibility of problems or complications that can interfere with health. This study is the development of a minimum standard of visits for pregnant-women and the care provider acts as a ball-picker, with the aim of empowering the family to be independent in recognizing pregnancy complications, overcoming minor complaints, meeting nutritional needs, carrying out pregnancy checks and taking blood tablets. Visits are carried out continuously 15 times during pregnancy and communicating until the mother gives birth. This study used experimental design with control. The research subjects were 120 people taken by simple random sampling. Data were collected using observation sheets, then analyzed using the logarithmic-formula (Log^{10}). The results showed an increase in the level of family independence in recognizing complications during pregnancy, family independence in overcoming mild complaints in pregnancy, independence in fulfilling the nutritional needs of pregnant-women, family independence in carrying out pregnancy examinations, independence the family in giving tablets added blood. The average independence change is 37.4%, based assistance continuum of care that is done by conducting intensive visits and more often can increase family independence in overcoming health problems of pregnant-women, able to reduce self care deficits, improve family capacity in meeting demands self care and families are able provide care for pregnant-women independently.

Keywords: *Mentoring, Continuum of Care, Family Independence*

Introduction

Family approach is a community health centers service that combines individual health efforts and continuous first-level public health efforts based on data and information from family health profiles that focus on promotive and preventive efforts. Based on the Regulation of MoH-RI, four priority areas or targets are established: 1-reduction in maternal and infant mortality (MMR and IMR), 2-decreasing prevalence of stunting, 3-prevention of infectious diseases, 4) prevention of non-communicable diseases.¹

MMR and IMR is still a top priority. East Java until 2015 was ranked third with the highest MMR reaching 89.6/100,000 live-births.² Batu is city with the population

of men is 49.33% and 50.67% of women, the general structure of the population tends to refer to the younger age group, the number of fertile couples 4710 and the number of pregnant-women in one year ranges from 1,300 and is expected to increase 1 percent annually, the total coverage of pregnant-women (K4)=95% (target=100%).³

The high maternal mortality rate is made possible by the direct causes of preeclampsia, bleeding, inadequate quality of maternal services, unhealthy conditions of pregnant-women and the determinant factor of 3-Too late in decision making, to health facilities and for help.

The strategy to reduce MMR in the National Medium-Term Health Development Plan 2015-2019 is carried out through the Healthy Paradigm where preventive promotive programs are the main pillar of health by implementing a family-based approach continuum of care since pregnancy. A based approach

Corresponding author:

Rita Yulifah

Address: Jl. Ijen 77C-Malang-Indonesia

continuum of care is needed, given that during pregnancy 15% of complications cannot be predicted. With a-based approach continuum of care during pregnancy, it will be able to care for pregnant-women, not only in physical condition but also in social-mental conditions but also to care for the social health of pregnant-women. Based mentoring Continuum of care is a strategy developed by The Lancet Neonatal Survival Series. The effect of continuity of care by midwives in pregnant-women was 63.0% more likely to experience spontaneous vaginal birth and 23.1% less experienced episiotomy.⁴

This study aims to develop a minimum standard care program for pregnant-women by providing based mentoring continuum of care, emphasizing strengthening preventive, wellness, providing coaching functions, assisting families in solving problems, with the final results of seeing family independence in 1-recognize pregnancy danger signs, 2-deal with minor complaints during pregnancy, 3-fulfill the nutritional needs of pregnant-women, 4-carry out antenatal care, 5-consume blood-added tablets.

Methods

This research was an experimental study with control, namely providing assistance to pregnant-women on an ongoing basis using development assistance modules from maternal and child health books, with population of 120 pregnant-women (60=treatment-groups and 60=control-groups), selected by simple

random sampling.

Data were collected by socializing about mentoring first, then implementing mentoring with stages: 1-implementing mentoring by families, 2-researchers and numerators acting as facilitators and making 15 visits to pregnant-women, 3-the companion conduct a study of the characteristics of pregnant-women and pregnancy, 4-observations on the first and second weeks will be observed in 5 aspects of independence, 5-mentoring starts from the third week to the week before delivery, 6-the facilitator will record the results of the mentoring activities and conduct an evaluation of the mentoring results, 7-the researchers actively communicate, and once a month meet for discussion on mentoring, 8-at the end of the week will be observed conservation of the level of family independence.

The stage of data analysis were: calculating the difference between the average value after being reduced before; do equality by taking the logarithmic value calculated using excel with the formula \log^{10} , then multiplied by 100%, the final multiplication value was used to evaluate effectiveness.

Findings and Discussion

The results and discussion be elaborated on the data obtained.

Table 1. Condition of Mothers During Mentoring

	Intervention			Control	
	Parameter	Amount	Percentage	Amount	Percentage
Increase Body Weight	50-55 kg	32	53.3	23	38.3
	56-60 kg	23	38.3	32	53.3
	61-65 kg	5	8.4	5	8.4
Body-Index	≥20	1	1.7	1	1.7
	21-25	53	88.3	6	10
	26-30	6	10	53	88.3
Systole-Pressure	110	36	60.0	34	56.7
	120	22	36.7	22	36.7
	130	1	1.7	2	3.3
	140	1	1.7	2	3.3
Diastole-Pressure	70	21	35.0	22	36.7
	80	38	63.3	35	58.3
	90	1	1.7	3	5.0

Cont... Table 1. Condition of Mothers During Mentoring

	Intervention			Control	
	Parameter	Amount	Percentage	Amount	Percentage
Complaints most	Nausea, vomiting	1	1.7	3	6.6
	Headache	20	33.3	23	38.3
	Pain Waist	19	31.7	21	35
	Whitish	6	10	7	11.7
	Leg Cramps	8	13.3	3	6.6
	Hard Peeing Big	6	10	3	6.6
High Fundus uteri	accordance gestation	60	100	58	96.7
	Not suitable gestational age	0	0	2	3.3
Fetal Heart Rate	<120 x/mnt	0	0	0	0
	120-140 x/min	60	100	60	100
	>140 x/mnt	0	0	0	0

Table 2. Differences independence of Family to Address Health Issues Pregnancy Before the intervention

	Intervention					Control				
	Mean	SD	Diff	Log10	100%	Mean	SD	Diff	Log10	100%
Recognizing & overcoming complications	1.74	1.24	0.49	0.24	24	1.61	1.09	0.52	0.21	21
Overcoming minor complaints	3.24	1.74	1.49	0.51	51	3.07	1.49	1.58	0.49	49
Meeting nutritional needs Prenatal	1.74	1.24	0.49	0.24	24	1.54	0.89	0.65	0.187	18.71
Examination	4.24	2.32	1.91	0.63	63	3.94	2.18	1.76	0.59	50
Add blood tablet consumption	1.62	1.35	0.28	0.21	21	1.59	1.3	0.29	0.2	20

Table 3. Differences independence of Family to Address Health Issues Pregnancy After the intervention

	Intervention					Control				
	Mean	sd	Diff	Log10	100%	Mean	SD	Diff	Log10	100%
Recognizing & overcoming complications	4.9	0.44	4.46	0.69	69	2.07	1.39	0.68	0.32	32
Overcoming minor complaints	7.5	1.2	6.3	0.87	87	4.3	2.3	1.9	0.6	60
Meeting nutritional needs	4.87	0.5	4.36	0.69	69	2.74	1.67	1.07	0.44	44
Pregnancy checks	7	0	7	0.85	85	5.9	1.88	4.02	0.77	77
Add blood tablet consumption	3.8	0.6	3.2	0.6	60	3.2	1.3	1.9	0.5	50

Table 4. Differences in Changes in the Level of Independence Before and After Assistance in Intervention and Control Groups

	Interventions			Control		
	Before	After	Diff	Before	After	Diff
Recognizing & overcoming complications	24	69	45	21	32	11
Addressing minor complaints	51	87	36	49	60	11
Meeting nutritional needs	24	69	45	18.7	44	25.3
Pregnancy checks	63	85	22	50	77	27
Consumption of added blood tablets	21	60	39	20	50	30
Average			37.4			20.86

Discussion

Family Independence in Recognizing Pregnancy Complications

At the beginning of the measurement provided an opportunity for family non-independence in recognizing pregnancy complications. The family does not recognize when a pregnant woman experiences severe headaches, suddenly bleeds from birth-canal, excessive nausea-vomiting, swollen-hands and face and blurred-vision are complications of pregnancy but it is normal for pregnancy to be given after assistance sustainably the family is more independent in recognizing the complications that might occur during pregnancy. Families know and recognize signs-symptoms such as severe-headaches, sudden-bleeding from the birth-canal, excessive nausea-vomiting, swollen-hands and face and blurred-vision, which are complications in pregnancy.

During the mentoring, there were four pregnant-women who had to be referred to health facilities because 2 people had increased blood-pressure on the second and third visits, 2 people were due to obesity and high-risk pregnancies with Poedji-Rochyati score of 10-18. Escort until the mother gives birth at 2 people's health facilities in the hospital, 2 people at the health center, with a healthy mother and fetus.

The independence of the family in recognizing complications between those who were given continuous assistance using the mentoring module had a different effect from the control that used maternal and child health books. The level of independence of the assisted families is higher than the control. During mentoring, the companion acts as a driver, motivator and educator. Direct involvement of the family as a companion plays a role in facilitating the family to quickly recognize the complications.

Family Independence in Overcoming Mild Complaints during Pregnancy

Family independence in overcoming mild complaints during pregnancy shows different results before and after mentoring. Before being given assistance, both the mentoring and control group had the largest percentage in the independent category. Families do nothing if pregnant-women experience nausea vomiting, complain of vaginal discharge and itching on the birth canal, complain of low back pain, cramps in the legs during sleep at night, and difficulty defecating.

During and after mentoring, families are more independent in dealing with minor complaints that occur during pregnancy, namely nausea, mild-headaches, leg-cramps, difficulty defecating and low-back pain.

When the mother experiences nausea-vomiting, the family gives the mother a warm sweet-drink like sweet-tea and prepares and helps give the biscuits before the mother gets up in the morning. The family does not recommend that pregnant-women not use high-heels sandals or shoes, deliver and accompany mothers to take part in pregnancy exercises to avoid low-back pain. When pregnant-women experience cramps in the legs, the family helps the mother to sit and stand. The family immediately takes the mother to the midwife if the mother experiences leucorrhoea or complaints getting heavier.

Family Independence in Fulfilling Nutrition Needs during Pregnancy

The results showed a change in the level of family independence in meeting nutritional needs during pregnancy. Before being given assistance to both the assisted and control group, the family did not know the food that should be given during pregnancy. The food given and eaten by pregnant-women is the same as other family meals, there is no difference in either portion or frequency. If pregnant-women experience nausea-vomiting, the mother has difficulty defecating the family as a normal thing for pregnant-women, so they have not tried to overcome it through food.

After being given assistance, families are more independent in meeting nutrition during pregnancy. Families in fulfilling nutritional needs prioritize foods that contain protein such as fish, eggs, chicken liver and follow recommendations as stated in the mentoring module that is to meet the nutritional needs of quality pregnant-women fulfilling the elements of nutrition, carbohydrates, proteins, fats, vitamins and minerals. The food consumed during companion for carbohydrates is rice and bread. Proteins: tempeh, tofu, eggs, sea fish, fresh fish, chicken and beef; Fat: from cooking oil, Vitamins: spinach, lettuce, mustard greens, broccoli, carrots, kale, pumpkins and fruits. Mothers also drink an average of 6-7 glasses a day.

Family Independence in Conducting Pregnancy Examinations

Family independence in conducting prenatal-care before and after mentoring in both the mentoring and control group showed the same results. Before family assistance has shown independence in carrying out pregnancy checks, the family knows and understands well when knowing signs of pregnancy immediately

brings the mother to the midwife or community health care. During pregnancy, the family brings pregnant-women to check their pregnancy 9 times, which is 1 time at gestational age 1-3 months, 3 times at gestational age 4-6 months and 5 times at gestational age 7-9 months. The family also immediately checks the pregnancy if there are minor complaints that cannot be overcome by themselves and the signs of childbirth.

Family Independence in Consuming Tablets Adding Blood During Pregnancy

Before being given assistance to the independence of the poor family in helping mothers consume tablets plus blood, this was due to a mother's complaint that after taking tablet medicine the blood of the mother felt nauseous and had difficulty defecating.

During the mentoring, the family as a companion assisted by the accompanying coordinator was educated about the importance of consuming blood-added tablets for pregnant-women contributing to family independence in helping to consume tablets with more blood. The results of observations during mentoring, every day pregnant-women routinely take tablets plus blood one tablet before going to bed using warm-water, this is done to avoid possible side effects that arise, namely headache, nausea and difficulty defecating.

The Effectiveness Assistance on of Continuum of Care Family Independence in overcoming the health problems of pregnant-women

It was found that-based mentoring continuum of care had high effectiveness on family independence in overcoming health problems of pregnant-women. Families given assistance have high independence in overcoming health problems. As long as independent family assistance in recognizing complications, the family is able to overcome minor complaints that occur during pregnancy, the family can independently fulfill the nutritional needs, carry out antenatal-care and independently consume blood-added tablets. Families are able to make decisions when they know that an increase in blood-pressure and an increase in body-weight exceed the normal limit by immediately bringing the mother to the nearest health facility, the community health center.

As long as the health assistance of pregnant-women is well monitored, pregnant-women do not experience health problems resulting in pain, 98% of maternal

blood pressure within the normal range, 98% of maternal nutritional status with a BMI between 23-24, high fundus uterine according to gestational age, 98% of fetal heart-rate within normal limits.

The assistance continuum of care is carried out functions in guiding, sustaining, protecting, supporting and empowering functions, namely functioning to guide the assisted family in the decision-making process, enabling and strengthening the assisted family and coping fully or independently when problems occur health for pregnant-women based assistance Continuum of care carried out in this study is mentoring that refers to quality care by using the principle of family-empowerment that is guided and tracks pregnant-women from time to time during the mentoring period, and optimizes family independence in overcoming health problems for pregnant-women.¹ Family empowerment functions as a link between maternal and child care, and the development of a health system approach to strengthening maternal and child health services.⁵ Based mentoring Continuum of care with reference to the quality of care from the results of research effectively increases family involvement as human resources is the potential to empower themselves in achieving independence to solve and overcome health problems for pregnant-women, so as to reduce the incidence of morbidity in pregnant-women, this is appropriate Van den Broek, NR and Graham WJ's opinion that quality care must be at the core of all strategies to accelerate reducing maternal and child mortality.⁶

Mentoring with a-based approach continuum of care during pregnancy, effectively increases family independence in caring for pregnant-women, not only in physical condition but also in social, mental conditions but also caring for the social health of pregnant-women. With based assistance continuum of care, maternal health problems can be overcome, mothers give birth normally, mothers are healthy, babies are also healthy. This is also reinforced by the results of previous studies from McLachlan, HL, Forster, DA and friends, that ongoing care provided by midwives during pregnancy to low-risk women can reduce the rate of Caesarean section.⁴ Case management using continuous care or continuum of care for pregnant-women diagnosed with HIV shows lower results for transmission to infants.⁶

Conclusions

1. Based mentoring continuum of care effectively

increases family independence in recognizing pregnancy complications by 45%.

2. Assistance continuum of care effectively increases family independence in overcoming mild complaints during pregnancy by 36%.

3. The continuum of care is effective in increasing family independence in meeting nutritional needs during pregnancy by 45%.

4. The continuum of care is effective in increasing family independence in carrying out a 22% pregnancy checkup.

5. Mentoring continuum of care effectively increases family independence in giving blood tablets to pregnant-women 39%.

6. Family assistance is Continuum of care effective in increasing family independence in overcoming health problems for pregnant-women.

Source of Funding- author

Conflict of Interest- No

Ethical Clearance- Yes

References

1. MoH-RI. General Guidelines for a Healthy Indonesia Program with a Family Approach. Jakarta: MoH-RI; 2016.
2. Dinkes-Jatim. East Java Health Profile 2016. Surabaya: Dinkes-Jatim; 2016.
3. Dinkes-Batu. Report of Batu City Health Office 2017. Batu: Dinkes-Batu; 2017.
4. McLachlan HL, Forster DA, Davey MA, Farrell T, Gold L, Biro MA, Albers LL, Flood M, Oata J, Waldenstrom U. Effects of continuity of care by primary midwife (caesarean section rates for low obstetric risk: the COSMOS randomized controlled trial. *BJOG: an international journal of obstetric & gynecology*. 2012;119(12):1483-1492
5. Darmastadt GL, Walker N, Law JE, Bhutta ZA, Haws RA, Cousens S. Saving Newborn Lives in Asia and Africa: cost and impact of phased scale of interventions within the continuum of care. *Health policy and planning*. 2008;23(2):101-117

6. Van den Broek NR, Graham WJ. Quality of care for maternal and newborn health: the neglected agenda. *BJOG, an International Journal of Obstetrics & Gynecology* . 116. pp.18-20 an International Journal of Obstetrics & Gynecology. 2009;116:18-20

7. Kim MH, Ahmed S, Buck WC, Preidis GA, Hosseinipour MC, Bhalakia A, Nanthuru D, Kazembe PN, Chimbwandira F, Giordano TP, Chiao EY. The Tingathe program: a pilot intervention using community health workers to create a continuation of services in Malawi. *Journal of the International AIDS Society*. 2012;15:17389.

Published, Printed and Owned: Dr. R.K. Sharma

Printed at: Printpack Electrostat G-2, Eros Apartment, 56, Nehru Place, New Delhi-110019

Published at: Institute of Medico-Legal Publications: Logix Office Tower, Unit No. 1704, Logix City Centre Mall, Sector- 32, Noida - 201 301 (Uttar Pradesh), Ph. +91 120 429 4015, +91 9971888542