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Epidemiology

Behavior of the Use of Mosquito Net as a Prevention of Malaria in Ondorea Village, Nanga Panda Sub-district

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Yustina PM Paschalia, Anatolia K. Doondori, Irfan Irfan, Norma Tiku Kambuno (Author) 620-623



Specific and Sensitive Nutrition Interventions with Nutritional Status of Toddlers as Prevention of Stunting in the Coronavirus Disease 2019 Pandemic in Sigi District, Indonesia

DOI: https://doi.org/10.3889/oamjms.2021.6148

Putu Candriasih, Metrys Ndama, Anna Veronica Pont (Author) 415-418



Determinants of Coronary Heart Disease Incidence among Indonesian Hajj Pilgrims Hospitalized in Saudi Arabia in 2019

DOI: https://doi.org/10.3889/oamjms.2021.6776

Juniarty Naim, Wahiduddin Wahiduddin, Masni Masni, Ridwan Amiruddin, Irwandy Irwandy, M. Nadjib Bustan (Author)

798-804



Public Health Education and Training

Real Time Telephone Application Use for Consultation in Emergency Medical Services

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Korakot Apiratwarakul, Takaaki Suzuki, Ismet Celebi, Somsak Tiamkao, Vajarabhongsa Bhudhisawasdi, Dhanu Gaysonsiri, Kamonwon Ienghong (Author)

390-393

PDF

Analysis of Basic Immunization Services during the COVID-19 Pandemic at Public Health Centers in Semarang

DOI: https://doi.org/10.3889/oamjms.2021.7336

Suryani Yuliyanti, Fathurrahman Maulana Rifqi, Rizal Lutfi Prasetyo, Elis Nurhasanah, Ahmada Bagus Priambada, Pujiati Abbas (Author)

1338-1344

☑ PDF

Point of Care Ultrasound Training during the Coronavirus Disease 2019 Pandemic

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Kamonwon Ienghong, Takaaki Suzuki, Somsak Tiamkao, Vajarabhongsa Bhudhisawasdi, Dhanu Gaysonsiri, Korakot Apiratwarakul (Author)

443-446

☑ PDF

Translation and Validation of the Indonesian Version of the Hypertension Self-care Profile

DOI: https://doi.org/10.3889/oamjms.2021.7119

Arif Setyo Upoyo, Agis Taufik, Akhyarul Anam, Nuriya Nuriya, Saryono Saryono, Ismail Setyopranoto, Heny Suseani Pangastuti (Author)

980-984

☑ PDF

Information and Husband's Support on Implementation Postpartum Gymnastics during COVID 19 Pandemic in Indonesia

DOI: https://doi.org/10.3889/oamjms.2021.7786

Yunik Windarti (Author); Yasi Anggasari; Siti Nur Hasina, Firdaus Firdaus (Author) 1418-1421



Exploring the Potentiality of Family Resources on Basic Household Sanitation Management in Dense Settlements of Binjai in North Sumatera Province of Indonesia

DOI: https://doi.org/10.3889/oamjms.2021.5720

Evi Naria, Heru Santoso, Kintoko Rochadi, Nurmaini Nurmaini (Author) 547-551



The Role of Family Support in the Recovery of Corona Virus Disease-19 Patients

DOI: https://doi.org/10.3889/oamjms.2021.6025

Diadjeng Setya Wardani, Syamsul Arifin (Author)

1005-1009



Increasing Mothers' Knowledge of Infant and Young Child Feeding through Booklets in Banggai Regency, Central Sulawesi Province, Indonesia

DOI: https://doi.org/10.3889/oamjms.2021.6232

Yulianus Sudarman H. Melangka, Masudin Masudin, Iwan Iwan, Sri Musriniawati Hasan, Taqwin Sahe (Author)

924-930



Relationship between Sleep Quality and the Percentage of Body Fat in Children (Ages 9–12 Years) in the Public Elementary School of IKIP I Makassar City

DOI: https://doi.org/10.3889/oamjms.2021.7155

Septiyanti Septiyanti, Yusriani Yusriani (Author) 985-989



Nutrition Education 4.0 to Prevent Overweight and Obesity through Social Media

DOI: https://doi.org/10.3889/oamjms.2021.7411

Trias Mahmudiono, Su Peng Loh, Dominikus Raditya Atmaka, Qonita Rachmah, Mahmudah Mahmudah, Shintia Yunita Arini, Mutiara Arsya Vidianinggar, Ratih Wirapuspita Wisnuwardani, Kadek Tresna Adhi, Nila Reswari Haryana, Setyo Utami Wisnusanti, Windi Indah, Nikmah Utami Dewi (Author) 1475-1479



Cross-cultural Adaptation and Validation of Patient Safety Culture Assessment Tool for Clinical Staff in Kazakhstan

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Saltanat Kyrykbayeva, Yuliya Semenova, Maiya Goremykina, Timur Moldagaliyev, Almagul Kauysheva, Sharafaddin Azizov, Elisabetta Trinchero (Author) 340-345



Letter to the Editor: Burnout Management among Health Care Workers in the Age of Coronavirus Disease-19

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Mohsen Khosravi, Alireza Ganjali (Author)

382-385

PDF

Behavior of mother to visit posyandu in magetan regency, indonesia

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Agung Suharto, Oedojo Soedirham, Suparji Suparji, Feftin Hendriyani (Author) 1590-1595

☑ PDF

The Effectiveness of Training on Auscultation of Heart with a Simulator of Cardiology in Medical Students

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Gulbakit Koshmaganbetova, Saulesh Kurmangalieva, Yerlan Bazargaliyev, Azhar Zhexenova, Baktybergen Urekeshov, Madina Azhmuratova (Author)

1055-1060

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Assessment of Healthcare Professional's Knowledge, Skills, Motivation, and Commitment to Clinical Pathways Implementation

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Ivana Alona, Juliandi Harahap, Andike Aribi, Riyadh Ikhsan, Muhammad Iqbal Rizki Siregar (Author) 540-546

PDF

Analysis of Generation, of Household Waste and Its Potential Utilization in Darul Imarah subdistrict - Aceh Besar District

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Sofia Sofia, Kartini Kartini, Zubir Zubir (Author)

729-733

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The Exploration of Antenatal Education Method and its Problems in Denpasar Regency, Indonesia: A Qualitative Study

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Ariyani Wayan, I. Made Ady Wirawan, Gede Ngurah Indraguna Pinatih, Anak Agung Ngurah Jaya Kusuma (Author)

990-998



Assessing the Effective Communication Channels to Reduce Child and Adolescent Marriage in Rural Communities of Egypt

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Ammal M. Metwally, Marwa El-Sonbaty, Dalia Elmosalami, Hala Amer, Manal Abuelela, Hasanin Mohamed, Mohamed Ahmed, Hatem Hasan, Amira Mohsen, Lobna El Etreby, Ghada A. Abdel-Latif, Nihad A. Ibrahim, Hanaa Emam, Aida Abdelmohsen, Walaa Fouad, Somia I. Salama, Iman Salama, Rehan Saleh (Author) 1288-1299



A Mobile Health App for Premarital Related Word Advice (AmeeSehat): Usability and Usefulness Evaluation Study

DOI: https://doi.org/10.3889/oamjms.2021.5914

Zulvi Wiyanti , Fadil Oenzil, Masrul Masrul, Defriman Djafri (Author) 474-480



Comparison of Emergency Medical Services Duration amid Routine Service for COVID-19 Patients

DOI: https://doi.org/10.3889/oamjms.2021.5953

Korakot Apiratwarakul, Takaaki Suzuki, Ismet Celebi, Kamonwon Ienghong, Thanat Tangpaisarn, Somsak Tiamkao, Vajarabhongsa Bhudhisawasdi (Author) 289-292



Continuity of Midwifery Care Implementation to Reduce Stunting

DOI: https://doi.org/10.3889/oamjms.2021.7062

Nurfatimah Nurfatimah, Kadar Ramadhan, Christina Entoh, Lisda Widianti Longgupa, Fahmi Hafid (Author) 1512-1516



Knowledge, Attitudes, and Families Practices in Selecting, Obtaining, Using, Storing, and Disposing of Medicines on Self-Medication Behavior in Indonesia

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Zulkarni Rauf, Deddi P. Putra, Masrul Masrul, Rima Semiarty (Author)



Uncrossmatched Blood Transfusion for Resuscitation Patients at the Emergency Department

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Korakot Apiratwarakul, Sivit Chanthawatthanarak, Piyathida Klawkla, Kamonwon Ienghong, Vajarabhongsa Bhudhisawasdi, Takaaki Suzuki (Author)

496-499

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The Influence of Parenting and Friendship on Self-Esteem in Adolescents

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Rini Sugiarti, Erwin Erlangga, Purwaningtyastuti Purwaningtyastuti, Fendy Suhariadi (Author) 1307-1315

☑ PDF

The Impact of Medical Therapeutic Communication Effectiveness on the Quality of the Medical Service Process in Hospitals at Medan City, Indonesia

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Arfah Mardiana Lubis, Harmein Nasution, Zulfendri Zulfendri, Juanita Juanita (Author) 1383-1392

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Case Study Analysis: The Utilization of Health Services by Citizens at Area of Tangerang Selatan, Indonesia

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Putri Permatasari, Cahya Arbitera, Dwi Mutia Wenny (Author) 1042-1049

1042-1043

☑ PDF

Strategies to Increase Postpartum Contraception in Palu City

DOI: https://doi.org/10.3889/oamjms.2021.7895

Ketut Suarayasa, Elli Yane, Miranti Miranti, Yuli Fitriana (Author) 1522-1527

☑ PDF

Relationship of Eating Behavior, Knowledge, Attitudes, Physical Activities, and Parent Support with Obesity Events in Adolescents in Padang City

DOI: https://doi.org/10.3889/oamjms.2021.5740

Deswita Deswita, Nurindrawaty Lipoeto, Mudjiran Mudjiran, Khatijah Binti Abdullah (Author) 999-1004



B-Line Artifact as a Diagnostic Tool in Various Conditions at the Emergency Department

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Kamonwon Ienghong, Takaaki Suzuki, Ismet Celebi, Vajarabhongsa Bhudhisawasdi, Somsak Tiamkao, Dhanu Gaysonsiri, Korakot Apiratwarakul (Author) 369-372



Knowledge Regarding Coronavirus Disease-19 Related to Nutritional Practices in Residents of Medan City, Indonesia

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Debora Natalia, Dina Keumala Sari, Rizky Ardiansyah, Wulan Fadinie (Author) 581-587



Intention to Practice Exclusive Breastfeeding and its Associated Factors among Female College Students

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Kusuma Estu Werdani, Izzatul Arifah, Tanjung Anitasari Indah Kusumaningrum, Anggi Putri Aria Gita, Suci RamadhaniRamadhani, Aulia Nimas Rahajeng (Author) 931-935

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Barriers in Diabetes Self-management: A Qualitative Study from the Perspective of Nurses in Primary Health Centers, Indonesia

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Atyanti Isworo, Yunita Sari, Annas Sumeru, Nuriya Nuriya (Author) 1345-1352



Development of Emergency Medical Services Amid 5 Years' Experience at a Medical School in Thailand

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Korakot Apiratwarakul, Phongphat Ruamsuk, Takaaki Suzuki, Ismet Celebi, Somsak Tiamkao, Vajarabhongsa Bhudhisawasdi, Kamonwon Ienghong (Author)

378-381



Breastfeeding based on Breastfeeding Self-efficacy and Social Support in Wonokromo Surabaya

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Fauziyatun Nisa, Nyoman Damayanti, Fendy Suhariadi, Yasi Anggasari, Ficky Erika Dewi, Diyah Arini, Firman Suryadi Rahman (Author)

1026-1031



Digital Health Usage and Awareness among MedicalStudents: A Survey Study

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Radwa Hassan, Omaima Kamel Elsalamony, Shaimaa Abdel-Aziz, Mohammed Fathelbab, Hend Aly Sabry (Author)

867-871



Development and Validation of a Survey to Evaluate Mental Health Knowledge: The Case of Indonesian Pregnant Women

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Yuli Kusumawati, Widyawati Widyawati, Fatwa Sari Tetra Dewi (Author)



Point of Care Ultrasound in Geriatric Patients at the Emergency Department

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Kamonwon Ienghong, Somsak Tiamkao, Vajarabhongsa Bhudhisawasdi, Dhanu Gaysonsiri, Korakot Apiratwarakul (Author)

386-389



A Structure Model of Family Empowerment in Preventing Smoking Initiation among Adolescent: An Empirical Study Conducted in Urban Area of Indonesia

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Muhammad Hafizurrachman, Astrid Novita Haryanto (Author) 659-664



The Antecedents of Psychological Empowerment and Its Impact towards General Physician Job Performance

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Marischa Regina, Santika Henny, Ferdi Antonio (Author)

1322-1330



Knowledge, Awareness, and Attitudes toward Umbilical Cord Blood Biobanking

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Nevenka Kregar Velikonja, Karmen Erjavec, Miomir Knežević (Author)

702-709



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I. D. Al-Hasani, H. S. Salih, A. T. Abdul Wahid, Mohammed Jabarah (Author) 1553-1559



Analysis of the Effectiveness of Family Approach System Model as Efforts to Optimize Germas Program

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Fauzie Rahman, Vina Yulia Anhar, Anggun Wulandari, Nur Laily, Ayu Riana Sari, Nita Pujianti, Lia Anggraini, Agus Muhammad Ridwan, Farid Ilham Muddin, Muhammad Azmiyannoor (Author) 307-311



Mother's Perception of Anemia and Compliance of Iron Tablet Consumption during Pregnancy

DOI: https://doi.org/10.3889/oamjms.2021.6519

Martha Meti Kody, Melkisedek Landi, Yosephina E.S. Gunawan, Maria Christina Endang Sukartiningsih, Norma Tiku Kambuno (Author)

535-539



The Effect of Peer Tutor Model on Antenatal Care Skill Competencies in Learning Laboratory Skills for Students of Langsa Midwifery Study Program

DOI: https://doi.org/10.3889/oamjms.2021.5999

Meliani Sukmadewi Harahap, Alchalidi Alchalidi, Baharuddin Baharuddin, Nurlaili Ramli (Author) 481-484



The Effect of Learning Module Program on Mothers' Ability to Adapt to New Foods, Feeding Styles, and Self-efficacy to Their Children with Avoidant Restrictive Food Intake Disorder

DOI: https://doi.org/10.3889/oamjms.2021.6204

Yoyok Bekti Prasetyo, Yulis Setiya Dewi, Hidayat Arifin, Amel Dawod Kamel (Author) 485-491



Online-Based Nutrition Education to Reduce Sugar, Salt, and Fat Intake in School Children: A Research Protocol

DOI: https://doi.org/10.3889/oamjms.2021.7127

Trias Mahmudiono, Rahayu Indriasari, Dina Rahayuning Pangesututi, Qonita Rachmah, Septa Indra Puspikawati, Fatqiatul Wulandari, Susi Hidayah (Author) 873-878



Effectiveness of Diabetes Self-management Education Against Diet Behavior in Patients Type 2 Diabetes Mellitus: A Literature Review

DOI: https://doi.org/10.3889/oamjms.2021.6033

Suardi Suardi, Amran Razak, Ridwan Amiruddin, Hasanuddin Ishak, Ummu Salmah, Ida leida Maria (Author) 364-368



Emergency Medical Services amid New Wave of Coronavirus Disease 2019 Outbreak in Khon Kaen, Thailand

DOI: https://doi.org/10.3889/oamjms.2021.6243

Korakot Apiratwarakul, Takaaki Suzuki, Ismet Celebi, Somsak Tiamkao, Vajarabhongsa Bhudhisawasdi, Dhanu Gaysonsiri, Kamonwon Ienghong (Author) 492-495



Factors Associated with the Stunting in Toddlers in the Work Area of Tikson Raya Public Health Center

DOI: https://doi.org/10.3889/oamjms.2021.6957

Rasyika Nurul Fadjriah, Rusdianto Rusdianto, Herman Herman, Vidyanto Vidyanto (Author) 1207-1212



Video Development to Increase Coverage of Exclusive Breastfeeding Promotion in Aceh Province, Indonesia

DOI: https://doi.org/10.3889/oamjms.2021.5771

Anita Anita, Nurlaili Ramli (Author) 229-234



Internet Usage and Risky Sexual Behavior among High School Students in a Suburban Area of Indonesia

DOI: https://doi.org/10.3889/oamjms.2021.6379

Kusman Ibrahim, Adriati Ajeng Juliana, Dyah Setyorini, Iqbal Pramukti (Author) 653-658



Early Detection Instruments for Children with Special Needs

DOI: https://doi.org/10.3889/oamjms.2021.7206

Nurwening Tyas Wisnu, Herlina Tutik, Tinuk Esti Handayani (Author) 1261-1266



Role of Cadre in Improving Knowledge and Attitude of Chronic Energy Deficiency on Teenagers in Mali-Mali Village, Banjar Regency, South Kalimantan, Indonesia

DOI: https://doi.org/10.3889/oamjms.2021.5664

Meitria Syahadatina Noor, Ayu Riana Sari, R. Akbar Agustriyanto, Rezeki Norwinardi, Diah Agustina, Erma Rahmaniah, Erwinda Safitri, Gusti Firdha Amalia, Bohari Bohari (Author) 145-149



The Implementation of Infant and Young Children Feeding Counseling

DOI: https://doi.org/10.3889/oamjms.2021.5882

Elvyrah Faisal, Fahmi Hafid, Dwi Erma Kusumawati, Nasrul Nasrul, Jurana Jurana (Author) 224-228



Development of Smartphone-Based Early Alerts and Mosquito Monitoring System and Geographic Instrument System Applications

DOI: https://doi.org/10.3889/oamjms.2021.6127

Kartini Kartini, Sofia Sofia, Nasrullah Nasrullah (Author)

734-739



DOI: https://doi.org/10.3889/oamjms.2021.6798

Ilil Maidatuz Zulfa, Widya Handayani (Author)

769-772



The Effect of Nutritional Education Using Cognitive Approaches and Psychomotor Approaches on Fruit and Vegetable Consumption Behavior in Children

DOI: https://doi.org/10.3889/oamjms.2021.7288

Fritria Dwi Anggraini, Fauziyatun Nisa, Siti Nur Hasina, Annif Munjidah (Author) 1161-1165



Assessment of Competency of Point-of-Care Ultrasound in Emergency Medicine Residents during Ultrasound Rotation at the Emergency Department

DOI: https://doi.org/10.3889/oamjms.2021.5954

Korakot Apiratwarakul, Kamonwon Ienghong, Nichaphat Tongthummachat, Takaaki Suzuki, Somsak Tiamkao, Vajarabhongsa Bhudhisawasdi (Author) 293-297



The Provision of Carrot Catfish Dumplings Affects the Weight of Elementary School Students with Low Nutritional Status

DOI: https://doi.org/10.3889/oamjms.2021.6500

Rosmana Dadang, Munawaroh Silmi Dzakiyyah, Widartika Widartika, Dewi Maryati, Mamat Rahmat, Surmita Surmita, Pusparini Pusparini, Fred Agung, Fuadah Ashri Nurfurqon, Ali Hamzah, Gurid Pramintarto Eko Mulyo (Author)

1061-1067



Unrecognized Out of Hospital Cardiac Arrest Symptoms during Thailand's Emergency Medical Services

DOI: https://doi.org/10.3889/oamjms.2021.6867

Thanat Tangpaisarn, Tachaya Srinopparatanakul, Ratchanan Artpru, Praew Kotruchin, Kamonwon Ienghong, Korakot Apiratwarakul (Author)

1-4



Community Activities Amid Activity Restrictions during the Coronavirus Disease-19 Pandemic in North Sumatra

DOI: https://doi.org/10.3889/oamjms.2021.7088

Rudianto Rudianto, Fadhil Pahlevi Hidayat, Sigit Hardiyanto, Ribut Priadi, Muhammad Thariq (Author) 964-968



Understanding of Development Emergency Medical Services in Laos Emergency Medicine Residents

DOI: https://doi.org/10.3889/oamjms.2021.7333

Korakot Apiratwarakul, Ismet Celebi, Somsak Tiamkao, Vajarabhongsa Bhudhisawasdi, Chatkhane Pearkao, Kamonwon Ienghong (Author)

1085-1091



Determinants of Exclusive Breastfeeding: A Cross Sectional Study in the Work Area of Bulili Public Health Center in South Palu, Palu City

DOI: https://doi.org/10.3889/oamjms.2021.6181

Muhammad Rizki Ashari, Nur Asri Zuhria, Bambang Dwicahya (Author) 566-573



Educational Model of PAKEM in Compliance with Fe Tablet Consumption of Adolescent Girls

DOI: https://doi.org/10.3889/oamjms.2021.6576

Rusmayanty Rusdin, Andi Zulkifli Abdullah, Wahiduddin Wahiduddin, Ansariadi Ansariadi, Suriah Suriah, Healthy Hidayanti (Author)

710-716



A Study on the Relationship between Banyuwangi Government Policy Mall Orang Sehat Mall of Health People with the Acceptance of the Coronavirus Disease 2019 Vaccine in Indonesian – Implications for Vaccination Implementation Policies

DOI: https://doi.org/10.3889/oamjms.2021.7388

Akhmad Yanuar Fahmi Pamungkas, Desi Trianita, Fransiska Erna Damayanti, Ani Qomariyah, Leny Eka Tyas Wahyuni, Badrul Munif (Author); Wahyu Adri Wirawati 1021-1025



Using Routine Ambulance Inspection Report Application to Reduce Wasted Time in Emergency Medical Services

DOI: https://doi.org/10.3889/oamjms.2021.6022

Korakot Apiratwarakul, Kamonwon Ienghong, Takaaki Suzuki, Ismet Celebi, Vajarabhongsa Bhudhisawasdi, Somsak Tiamkao (Author)



The Influence of Parents Feeding Practices, Eating Knowledge, and Attitude on Eating Behavior among Senior High School Students in South Tangerang, Indonesia

DOI: https://doi.org/10.3889/oamjms.2021.7147

Siti Soraya, Dwi Hastuti, Irni Rahmayani Johan (Author) 913-918



Assessment of Students Nutritional Consumer Preferences and Behavior

DOI: https://doi.org/10.3889/oamjms.2021.7408

Amreyeva Kymbat Eraliyevna, Abdikadirova Khamida Rakhimovna, Ayaulym K. Rakymzhan, Talaspekova Yuliya Pavlovna, Zauresh T. Mukhametzhanova, Gaziza T. Abuova, Zhanat K. Shaikhina, Atshabarova Saule Shaimuratovna, B. T. Chergizova, Kaiyrbekova Karlygasn Kaiyrbekovna (Author) 1194-1199



Assessing the level of economic consciousness and the level of health consciousness of the COVID-19 pandemic: Evidence from Indonesia

DOI: https://doi.org/10.3889/oamjms.2021.6267

Alini Alini, Dewi Anggriani Harahap, Andi Irfan, Dessyka Febria (Author) 634-640



The Effect of Nutrition Education Using Pocketbook Media on Iron and Protein Intake

DOI: https://doi.org/10.3889/oamjms.2021.6657

Osman Syarief, Anisya Rezky Dwiayu, Gurid P. E. Mulyo, Roro Nur Fauziyah, Mimin Aminah, Surmita Surmita, Henny Cahyaningsih (Author)

936-939



Effectiveness of Aerator Ventures, Deposition with Magnets, Filtering, and Ion Exchange in One Unit against Reduction of Iron, Total Dissolved Solid, and Marine Well Water

DOI: https://doi.org/10.3889/oamjms.2021.6986

Dwi Sudiarto, Nurhayati Nurhayati, Fajriansyah Fajriansyah (Author) 1486-1490



Potential Development of Chicken Egg Shell in Recycling of Waste Cooking Oil Innovation through the Stirer Chamber Device

DOI: https://doi.org/10.3889/oamjms.2021.7189

Narwati Narwati, Hadi Suryono, Setiawan Setiawan (Author)

1256-1260

PDF

Effect of Dementia Training on Knowledge and Attitude Among Long-Term Care Staff in Yogyakarta, Indonesia

DOI: https://doi.org/10.3889/oamjms.2021.6392

Sri Mulyani, Azam David Saifullah (Author)

592-597

☑ PDF

Prediction Model of Balanced Nutrition Practices among University Students in the COVID-19 Outbreak

DOI: https://doi.org/10.3889/oamjms.2021.7230

Yusma Indah, Dian Ihwana Ansyar, Irviani Anwar Ibrahim, Syarfaini Suyuti, Diah Ayu Hartini, Nikmah Utami Dewi (Author)

1155-1160

PDF

Health Promotion Using YouTube: The Experiences and Preliminary Findings from the Indonesian INAHEALTH Channel

DOI: https://doi.org/10.3889/oamjms.2020.7501

Fatwa Sari Tetra Dewi, Mei Neni Sitaresmi, Fitrina Kusumaningrum, Wisaksono Adhi, Aditya Lia Ramadona (Author)

1596-1605



Spiritual-Based Transformational Leadership Style at Anutapura Regional General Hospital, Palu

DOI: https://doi.org/10.3889/oamjms.2021.6119

Fajrillah Kolomboy, Sukri Palutturi, Fridawaty Rivai, Lalu Muhammad Saleh, Masudin Masudin, Ridwan Amiruddin (Author)

524-529



Diabetes Self-management Education Effect on Family Knowledge of Hypoglycemia Episodes Detection on Type 2 Diabetes Mellitus **DOI:** https://doi.org/10.3889/oamjms.2021.7275

Netha Damayantie, Mursidah Dewi, Rusmimpong Rusmimpong, Cek Masnah (Author) 1398-1402



Implementation of Lean Kaizen to Reduce Waiting Time for the Indonesian Health Social Security Agency Prescription Services in Hospital Pharmacy InstallationImplementation of Lean Kaizen to Reduce Waiting Time for the Indonesian Health Social Security Agency Prescription Services in Hospital Pharmacy Installation

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Vera Yuliati, Helen Andriani (Author)

1495-1503



Effects of Family Planning and Baby Care Behavior on Stunting in Early Married Couples

DOI: https://doi.org/10.3889/oamjms.2021.5908

Rosmala Nur, Muhammad Rusydi, Rasyka Nuru Fajriah, Rahma Dwi Larasati, St. Ika Fitrasyah, Syaiful Hendra, Hajra Rasmita Ngemba (Author)

467-473



Professionalism among Family Medicine Residents in Al Madinah Region, Saudi Arabia

DOI: https://doi.org/10.3889/oamjms.2021.6836

Sokinh Almaghaslah, Dalia Almaghaslah (Author) 946-951

☑ PDF

mHealth Conceptual Model for Providing Quality Antenatal Care in Health Centers during the Coronavirus Disease 2019 Pandemic

DOI: https://doi.org/10.3889/oamjms.2021.7061

Delmaifanis Delmaifanis, Kemal Siregar, Artha Prabawa (Author) 828-834



Education on Mercury Exposure from Fish and its Product in Elementary Students in Kenjeran Beach Area, Surabaya: A Study Protocol

DOI: https://doi.org/10.3889/oamjms.2021.7329

Trias Mahmudiono, Eurika Zebadia, Nur Sahila, Diah Indriani, Stefania Widya Setyaningtyas (Author) 1166-1168



Relationship between Family Social Support and Exclusive Breastfeeding Behavior at Talise Health Center, Indonesia

DOI: https://doi.org/10.3889/oamjms.2021.5987

Rasyika Nurul Fadjriah, Shendy Krisnasari, Yunita Gugu (Author) 312-316

☑ PDF

Effects of Yoga Therapy and Walking Therapy in Reducing Blood Sugar Levels on Diabetes Mellitus Patients in the Community

DOI: https://doi.org/10.3889/oamjms.2021.7104

Wachidah Yuniartika, Agus Sudaryanto, Abi Muhlisin, Dian Hudiyawati, Dimas Ria Angga Pribadi (Author) 906-912

☑ PDF

Effect of Peer Promoters on Changes in Adolescent Smoking Knowledge and Attitudes: A School-based Intervention Study

DOI: https://doi.org/10.3889/oamjms.2021.7356

Muhammad Rachmat, Nur Arifah Arif, Sitti Andriani Anwar, Tanti Asrianti, Andi Tenri Awaru (Author) 1169-1174

☑ PDF

The Influence of Collaborative Model between the Role of Husbands and Healthcare Workers on Mother's Behavior in Giving Exclusive Breastfeeding

DOI: https://doi.org/10.3889/oamjms.2021.6603

Stang Stang, Tahir Abdullah, Sumarni Marwang (Author)

794-797

PDF

The Effectiveness of Santri's Life Style Management on Santri's Coping Mechanisms

DOI: https://doi.org/10.3889/oamjms.2021.7868

Khamida Khamida, Ah Yusuf, Rizki Fitryasari, Riska Rohmawati, Siti Nur Hasina, Awatiful Azza (Author) 1586-1589

☑ PDF

Determinant of Smoking Behavior among Elementary Student in Indonesia: A Structure Equation Model

DOI: https://doi.org/10.3889/oamjms.2021.5739

Astrid Novita Haryanto, Melinda Noer, Agustin Kusumayati, Rizanda Machmud, Muhammad Hafizurrachman, Adang Bachtiar (Author)

203-208



Interaction between Environment, Economy, Society and Health in the Concept of Environmental Health: Studies on Peatland Communities

DOI: https://doi.org/10.3889/oamjms.2021.7178

Dessyka Febria, Rinda Fithriyana, Lira Mufti Azzahri Isnaeni, Nany Librianty, Andi Irfan (Author) 919-923



Effects of Access to Information on Health Literacy in Pregnant Women

DOI: https://doi.org/10.3889/oamjms.2021.7421

Ridwan Mochtar Thaha, Muhammad Anwar, Ida Leida Maria (Author)

1122-1126



The Effectiveness of Training on Improving the Ability of Health Cadres in Early Detection of Stunting in Toddlers

DOI: https://doi.org/10.3889/oamjms.2021.6067

Rina Tampake, Ros Arianty, Selvi A . Mangundap, Baiq Emy, Hanum Sasmita (Author) 373-377



Point of Care Ultrasound Use by Interns in Emergency Department

DOI: https://doi.org/10.3889/oamjms.2021.6380

Kamonwon Ienghong, Takaaki Suzuki, Somsak Tiamkao, Dhanu Gaysonsiri, Vajarabhongsa Bhudhisawasdi, Korakot Apiratwarakul (Author)

588-591



The Effect of Nutrition Education on Nutrition Knowledge and Macronutrition Intake in Muay Thai Athletes

DOI: https://doi.org/10.3889/oamjms.2021.6698

Maryati Dewi, Gina Hanifah, Asep Iwan Purnawan , Witri Priawanti Putri, Gurid Pramintarto Eko Mulyo (Author)

1544-1548



Effectiveness of Psychosocial Supportive Care Trial on Quality of Life among Breast Cancer Patients: An Interventional Study at the National Cancer Institute, Egypt

DOI: https://doi.org/10.3889/oamjms.2021.6089

Mona Ibrahim Ellawindi, Tarek Hamed Shoman, Eman Taher, Sherif Gohar, Samah Shehata (Author) 779-788



Transformation of Consumption Behavior of the Poor in the Case of Malnutrition: Health Sociology Study with Participatory Approach in Makassar City, Indonesia

DOI: https://doi.org/10.3889/oamjms.2021.6417

Andi Alim, Andi Agustang, Arlin Adam (Author) 598-607



Factors that Affecting Female Nurse Performance with Work Stress as an Intervening Variable in the Hospital of Dr. Tadjuddin Chalid Makassar

DOI: https://doi.org/10.3889/oamjms.2021.6763

Magfirah Ramadhani, Masyitha Muis, Yahya Thamrin, M. Furqaan Naiem, Indar Indar, Wahiduddin Wahiduddin (Author)

835-842



Knowledge, Attitudes, and Barriers Regarding Health Research among Medical Students in Saudi Arabia

DOI: https://doi.org/10.3889/oamjms.2021.5888

Mubashir Zafar, Abdul Kareem, Ali Fawaz, Reem Fares, Wadha Saad (Author) 302-306



Pesticide Toxicity Prevention in Farmer's Community Movement

DOI: <u>https://doi.org/10.3889/oamjms.2021.5565</u>

Eka Lestari Mahyuni, Urip Harahap, R. Hamdani Harahap, Nurmaini Nurmaini (Author) 1-7



Does the Use of Lights and Sirens on Ambulances Affect Pre-hospital Time?

DOI: https://doi.org/10.3889/oamjms.2021.5526

Korakot Apiratwarakul, Kamonwon Lenghong, Vajarabhongsa Bhudhisawasdi, Dhanu Gaysonsiri, Somsak Tiamkao (Author)



Use of Handheld Versus Standard Ultrasound Devices in Ultrasound Rotation at the Emergency Department

DOI: https://doi.org/10.3889/oamjms.2021.5528

Kamonwon Ienghong, Kotchakorn Jumroenketpratheep, Somsak Tiamkao, Korakot Apiratwarakul (Author) 29-32



Practical Emergency Ultrasound Flashcards with Augmented Reality in Teaching Point-of-Care Ultrasound in ER

DOI: https://doi.org/10.3889/oamjms.2021.5566

Kamonwon Ienghong, Praew Kotruchin, Thanat Tangpaisarn, Korakot Apiratwarakul (Author) 39-42



Impact of Knowledge and Attitude on Saudis' Physical Activity Practice and Inactivity Barriers: A Questionnaire-based Study

DOI: https://doi.org/10.3889/oamjms.2021.4983

Naif Albalawi, Moath M. Alshehri, Moshari A. Al-ghamdi, Mohammed A. Alshehri, Mohamed S. Abdel-Maksoud, Mohammed M. H. Al-Gayyar (Author) 50-58



Experience of Mother in Taking Care of Children with Stunting at Majene Regency, Indonesia

DOI: https://doi.org/10.3889/oamjms.2021.5521

Darwis Darwis, Rukman Abdullah, Lili Amaliah, Bohari Bohari, Nurdin Rahman (Author) 33-38



The Effectiveness of M.D-Risti Application as an Alternative for Independent Early Detection of Risk of Pregnancy during the Pandemic COVID-19 in Palu City, Central Sulawesi, Indonesia

DOI: https://doi.org/10.3889/oamjms.2021.5623

Ketut Suarayasa, Elli Yane Bangkele , Sumarni Sumarni, Haerani Harun, Bohari Bohari (Author) 43-49



Epidemiology and Knowledge of First Aid Treatment Related to Burn Injury in the Rural Region of Kulon Progo, Indonesia

DOI: https://doi.org/10.3889/oamjms.2021.5649

Rianto Noviady Ramli, Almas Prawoto, Nyoman Putu Riasa, Iswinarno Doso Saputro, Ahmad Fawzy Mas'ud (Author)

101-108



Commitment of the Elderly People in Bulgaria to their Own Health

DOI: https://doi.org/10.3889/oamjms.2021.5645

Silviya Kyuchukova, Albena Andonova, Mima Nikolova, Mariana Penkova-Raditcheva (Author) 76-79



Coronavirus Disease 2019: Knowledge, Attitude, Practice, and Perceived Barriers among Health care Workers at Cairo University Children Hospital, Egypt

DOI: https://doi.org/10.3889/oamjms.2021.5703

Yasmine S. Galal , Walaa A. Abuelhamd, Tamer A. Abdel Hamid, Nema R. Elsayed (Author) 80-88



Implementation of Hypnobreastfeeding Therapy as an Effort to Reduce the Incidence of Underweight on Children Aged 0–6 Months

DOI: https://doi.org/10.3889/oamjms.2021.5686

Nur Laily, Fauzie Rahman, Andini Octaviana Putri, Meitria Syahadatina Noor, Atikah Rahayu, Fahrini Yulidasari, Lia Anggraini, Vina Yulia Anhar, Ayu Riana Sari, Dian Rosadi, Afifah Afifah, Muhammad Azmiannoor, Bohari Bohari (Author)

123-126



Assessment of Knowledge, Attitude, and Negative Emotions among Gynecologic Oncology Patients during the Coronavirus Disease-19 Pandemic

DOI: https://doi.org/10.3889/oamjms.2021.5678

Ali Budi Harsono, Febia Erfiandi, Tendi Robby Setia, Aisyah Shofiatun Nisa, Gatot Nyarumenteng Adhipurnawan Winarno (Author)

118-122



Knowledge, Attitude, and Practice of Complementary and Alternative Medicine among Program's Residents in Tabuk, Saudi Arabia

DOI: https://doi.org/10.3889/oamjms.2021.5665

Talal Saeed Alqahtani, Tahani Ahmed Khalil, Asma Ali Alharbi, Waad Saad Alnomasi, Mohammed Saad Alnomasi, Saeed Mubarak Althwab, Amani Abu Jaser, Rahaf Saud Alshahrani (Author) 150-154



Clinical Supervision for Quality Reproductive Health Services in Primary Health Care in Egypt: A Qualitative Analysis

DOI: https://doi.org/10.3889/oamjms.2021.5603

Ghada Wahby, Madiha Said Abdel-Razik, Fayrouz El Egizy, Marwa Rashad Salem (Author) 132-137



Strengthening Community-based Surveillance Cadre Activeness through Interpersonal Communication and Module Development in Barru District

DOI: https://doi.org/10.3889/oamjms.2021.5762

Andi Zulkifli, Andi Indahwaty Sidin, Nasrah Nasrah, Siti Rahmah, A. Ulfiana Fitri (Author) 187-191



Public Health Legislation

The Effectiveness of Placental Drainage in the Active Management of the Third Stage against the Duration of Three Childbirths in the Independent Practice of Midwives in Banda Aceh City

DOI: https://doi.org/10.3889/oamjms.2021.6461

Gustiana Gustiana, Novemi Novemi, Yusnaini Yusnaini, Kartinazahri Kartinazahri, Iin Fitraniar (Author) 745-748



Disparity in the Hospitals Utilization among Regions in Indonesia

DOI: https://doi.org/10.3889/oamjms.2021.7304

Trias Mahmudiono, Agung Dwi Laksono (Author) 1461-1466



The Quality of Pharmaceutical Services in the New Normal Era on Outpatient Loyalty at the Pharmacy Installation of the Daya General Hospital

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Gemy Nastity Handayany (Author)



Prevalence of Home Storage of Medicines and Associated Factors in Iraq

DOI: https://doi.org/10.3889/oamjms.2021.5997

Sattar J. Abood, Waleed K. Abdulsahib, Mohanad Y. Al-Radeef (Author) 356-363



Egypt Family Planning Method Mix Indicates Shifting toward Hormonal Contraceptives

DOI: https://doi.org/10.3889/oamjms.2021.7512

Ghada Wahby, Hend Sabry, Madiha Abdel-Razik, Marwa Rashad Salem, Fayrouz EL Aguizy (Author) 1279-1287



Effective Social Marketing Campaign Can Promote Family Medicine Clinics Utilization: An Intervention Trial

DOI: https://doi.org/10.3889/oamjms.2021.6479

Eman Elsayed Sedik Ebrahim, Mayssa Ibraheem Ali, Mohamed Adel Foda, Eman Ibrahim Bosila (Author) 614-619



Evaluation of the Tuberculosis Prevention Program in the Discovery of Tuberculosis Cases in Nosara Public Health Center Palu City

DOI: https://doi.org/10.3889/oamjms.2021.7185

Muhammad Rizki Ashari, Irma Apriani, Firmansyah Firmansyah, Fitrianty Sutady Lanyumba (Author) 1200-1206



Zakat Management Concept to Accelerate Health and Economic Recovery during the COVID-19 Pandemic

DOI: https://doi.org/10.3889/oamjms.2021.7394

Moch Chotib (Author)

1213-1217

PDF

Regulation of Halal and Healthy Products for Small-scaled Businesses as Consumer Protection

DOI: https://doi.org/10.3889/oamjms.2021.6643

Neneng Uswatun Hasanah, Martha Eri Safira, Winantu Kurnianingtyas Sri Agung, Mochammad Chotib, Elok Putri Nimasari, Setiawan Bin Lahuri (Author)



Health Behavior of Adolescent Smokers During Covid-19 Pandemic

DOI: https://doi.org/10.3889/oamjms.2021.7170

Muria Helina, Novi Hendrika Jayaputra, Sukri Palutturi (Author) 1076-1084



Assessment of Infection Control Measures at Primary Health Care Facilities in Egypt

DOI: https://doi.org/10.3889/oamjms.2021.6668

Hoda Ibrahim Ibrahim Rizk, Hanan Abd-Elghani EL-Raghi, Marwa M. Zein (Author) 629-633



Legal Protection of Vaccine Administration Health Service to Prevent the Spread of the Coronavirus Disease 2019 in Indonesia

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Arief Budiono, Dewi Iriani, Martha Eri Safira, Rif'ah Roihanah, Muhamad Noor, Neneng Uswatun Khasanah, Ridwan Ridwan (Author)

1050-1054



Stunting Prevention Policy as a Form of Child Health Rights Legal Protection

DOI: https://doi.org/10.3889/oamjms.2021.7254

Hartotok Hartotok, Absori Absori, Khudzaifah Dimyati, Heru Santoso, Arief Budiono (Author) 1218-1223



Attitude, Risk Perception and Public Acceptance against Coronavirus Disease 2019 Vaccination in Indonesia

DOI: https://doi.org/10.3889/oamjms.2021.6635

Andi Susilawaty, Fajrin Noviyanto, Iis Afrianty, Armia Syahputra, Lia Kurniasari, Lukman Handoko, Respati Wulandari, Cipta Pramana (Author)

717-721



Postnatal Care in Rural Egypt: Perspectives of Women and Health Care Providers

DOI: https://doi.org/10.3889/oamjms.2021.5611

Ghada Wahby Elhady, Tarek Tawfik Amin, Eman Aly Hussein, Sherry Magdy, Marwa Rashad Salem (Author) 328-335



Content Analysis of Policymakers Communication Narrative Addressing Coronavirus Diseases 2019 Pandemic in Indonesia

DOI: https://doi.org/10.3889/oamjms.2021.6722

Hardisman Dasman, Husna Yetti, Abdiana Abdiana, Firdawati Firdawati (Author) 1528-1533



Environmental Health-Based Post-Coal Mine Policy in East Borneo

DOI: https://doi.org/10.3889/oamjms.2021.6431

Absori Absori, Aulia Vivi Yulianingrum, Khudzaifah Dimyati, Harun Harun, Arief Budiono, Hari Sutra Disemadi (Author)

740-744



Incident Report: Between the Shadows of Obligation and Formality

DOI: https://doi.org/10.3889/oamjms.2021.5949

Savitri Citra Budi, Sunartini Hapsara, Fatwa Sari Tetra, Lutfan Lazuardi (Author) 109-117



Inter-community Relations Factor on the Empowerment of the Aisle Community in Makassar City: A Structural Equation Model

DOI: https://doi.org/10.3889/oamjms.2021.7132

Sukri Palutturi, Lalu Muhammad Saleh, Muhammad Rachmat, Achmad Mawardi Shabir, St. Rosmanely, Muhammad Rafli Aidillah, Jalaluddin Abdul Malek, Eun Woo Nam (Author) 1358-1362



Transformation Model of Government Policy on Task Force Through Coronavirus Disease 2019 Pandemic Handling Strategy in the COVID Tourism Ambassador Program in South Sulawesi Province, Indonesia

DOI: https://doi.org/10.3889/oamjms.2021.6966

Aslinda Aslinda, Muhammad Akmal Ibrahim, Sukri Palutturi (Author)

1316-1321



Determinant of Stress and Burnout among Nurses at the Second Wave of the Indonesian COVID-19 Pandemic: A National Web-based Survey

DOI: https://doi.org/10.3889/oamjms.2021.7032

Yani Sofiani, Abdu Rahim Kamil, Dedi Muhdiana, Prima Trisna Aji, Dede Kurniati, Diwa Agus Sudrajat (Author)

1127-1132



Investigating Evaluation Frameworks for Electronic Health Record: A Literature Review

DOI: https://doi.org/10.3889/oamjms.2021.3421

Zahra Ebnehoseini, Hamed Tabesh, Majid Jangi Jangi, Kolsoum Deldar , Sayyed Mostafa Mostafavi, Mahmood Tara (Author)

8-25



Health-care Accessibility Assessment in Kazakhstan

DOI: https://doi.org/10.3889/oamjms.2021.5704

Askhat Shaltynov, Aizhan Raushanova , Ulzhan Jamedinova, Aigerim Sepbossynova, Altay Myssayev, Ayan Myssayev (Author)

89-94



Public Health Epidemiology

Percentage of Injuries, and Related Factors Among a Group of Medical Students in Cairo University: A Cross-Sectional Study

DOI: https://doi.org/10.3889/oamjms.2021.5933

Hend Ali Sabry, Alaa Abou Zeid, Marwa Salem (Author) 675-680



Evaluation of the Effect of Sociocultural Factors on the Children Stature in Langkat Regency, Indonesia

DOI: https://doi.org/10.3889/oamjms.2021.6132

Siti Saidah Nasution, Bina Melvia Girsang, Hariati Hariati (Author) 461-466



The Spatial Distribution of Pulmonary Tuberculosis in Kabanjahe District, Karo Regency, Indonesia

DOI: https://doi.org/10.3889/oamjms.2021.6808

Risnawati Tanjung, Eka Lestari Mahyuni, Nelson Tanjung, Oster Suriani Simarmata, Jernita Sinaga, Helfi R. Nolia (Author)

817-822



Profile of Double of Undernutrition Problem, Coexistence with Anemia among Pregnant Women Indonesia 2018: A Cross Sectional Survey

DOI: https://doi.org/10.3889/oamjms.2021.7052

Ina Kusrini, Donny Kristanto Mulyantoro, Dwi Hapsari Tjandrarini, Hadi Ashar (Author) 1250–1255



Assessment of Antepartum Depression and its Effect on Pregnancy Outcome in Two Primary Health Care Units in Qaliobia Governorate, Egypt

DOI: https://doi.org/10.3889/oamjms.2021.5960

Ola Mostafa, Mervat El-Rafie, Eman T. Al Sayed, Mohamed A. Khalil, Sherry M. Zaki (Author) 447-454



Association of Prepregnancy Nutritional Status and Physical Activity Levels with Birth Size Outcomes among West Sumatran Pregnant Women: Results from the Vitamin D Pregnant Mothers Cohort Study in Indonesia

DOI: https://doi.org/10.3889/oamjms.2021.6898

Arif Sabta Aji, Yusrawati Yusrawati, Safarina G. Malik, Chahya Kusuma, Nurindrawaty Lipoeto (Author) 880-886



Do Zinc Supplementation and Physical Exercise Affect Height, H/A z-score, and Academic Performance of Stunted Children in Coronavirus Disease 2019 Pandemic?

DOI: https://doi.org/10.3889/oamjms.2021.6947

Nitta Isdiany, Holil Par'i, Osman Syarief, Mamat Rahmat, Gurid Pramintarto Eko Mulyo (Author) 861-866



Factor Influencing Vaccine Rejection of Complete Basic Immunization in Indonesia

DOI: https://doi.org/10.3889/oamjms.2021.7195

Agustina Setyaningsih, Kemal N Siregar (Author) 1300-1306



Factors Related to Adolescent Smoking: A Nationally Representative Cross-Sectional Study in Thailand

DOI: https://doi.org/10.3889/oamjms.2021.7453

Charin Suwanwong, Romtawan Kalapat, Siriwan Pitayarangsarit, Surasak Chaiyasong (Author) 1267-1272



A Nationwide Community Survey of Prevalence of Circumcision among Egyptian Children and Risk of Hepatitis B Viral Infection

DOI: https://doi.org/10.3889/oamjms.2021.5827

Iman I Salama, Samia M Sami, Somaia I Salama, Dalia M Elmosalami, Rehan M Saleh, Zeinab N Said, Fatma A Shaaban, Aida M Abdel Mohsen, Thanaa Mahmoud Rabah, Ghada A Abdel-Latif, Walaa A Fouad, Amira Mohsen (Author)

209-215



A Fournier Gangrene Severity Index and Diabetes Mellitus: A Significance Correlation among Fournier Gangrene Patients in Single Center Hospital

DOI: https://doi.org/10.3889/oamjms.2021.6401

Hanum Faeni, Wibisono Wibisono, Galih Santosa Putra, Muhammad David Perdana Putra (Author) 690-694



Pharmacoeconomic Analysis of Treatment Regimens for Coronavirus Infection Coronavirus Disease-19

DOI: <u>https://doi.org/10.3889/oamjms.2021.7015</u>

Olga Krylova, Anatoliy Krasheninnikov, Elza Mamontova, Galina Tananakina, D. Belyakova (Author) 1182-1189



Analysis of Household Food Security Based on the Proportion of Food Expenditures and Energy Consumption in Flood-prone Areas in Wajo District

DOI: https://doi.org/10.3889/oamjms.2021.5874

Syamsuar Manyullei, Andi Imam Arundhana (Author) 241-245



Impact of Climate Variability and Incidence on Dengue Hemorrhagic Fever in Palembang City, South Sumatra, Indonesia

DOI: https://doi.org/10.3889/oamjms.2021.6853

Minarti Rubel, Chairil Anwar, Irfanuddin Irfanuddin, Chandra Irsan, Ramzi Amin, Ahmad Ghiffari (Author) 952-958



Association between Frequency of Consumption of Pork Se'i and Chronic Kidney Disease in East Nusa Tenggara, Indonesia

DOI: https://doi.org/10.3889/oamjms.2021.7330

Maria Magdalena Dwi Wahyuni, Chika Dewi Haliman, Soenarnatalina Melaniani, Trias Mahmudiono (Author) 1565-1569



Relationship between family history of type 2 diabetes mellitus and knowledge, attitude, and practice regarding type 2 diabetes mellitus among medical students

DOI: https://doi.org/10.3889/oamjms.2021.5695

Jilan Fachirah, Mutiara Indah Sari (Author) 161-166



The Effect of Mental Health Status on the Quality of Life of Faculty of Medicine Students during the Pandemic Coronavirus Disease 2019 Period

DOI: https://doi.org/10.3889/oamjms.2021.6161

Agustina Arundina Triharja Tejoyuwono, Rangga Putra Nugraha, Faisal Kholid Fahdi (Author) 645-652



Analysis of Baby Stunting Prevalence Causing Factors in the Pandemy Era COVID-19

DOI: https://doi.org/10.3889/oamjms.2021.7379

Harapan Parlindungan Ringoringo, Qomariyatus Sholihah, Dike Maharany, Wahyudi Kuncoro, Imam Luthfansa, Kumoro Asto Lenggono (Author) 1467-1474



Determinants Influencing Awareness and Healthy Practices among a Sample of Insulindependent Diabetic Egyptian Patients: A Rural Community-based Study

DOI: https://doi.org/10.3889/oamjms.2021.6017

Ammal M. Metwally, Hanaa Yousof, Monira M. Elkholy, Lobna A. Eletreby, Abeer A. Barakat, Soha M. Abd El Dayem, Mohamed Abdelrahman, Sherif M. Eldeeb (Author)



Epidemiology of Gastrointestinal Disease among Children and Adolescents in Kazakhstan: 2012–2019

DOI: https://doi.org/10.3889/oamjms.2021.6931

Alikhan Zhaksylyk, Ardak Nurbakyt, Andrej Grjibovski, Galina Kaussova, Myrzatai Buleshov (Author) 1244-1249



The Correlation of Limestone Dust Exposure to Lung Function Impairment in Limestone Mining's Workers, Centre Java, Indonesia

DOI: https://doi.org/10.3889/oamjms.2021.5796

Suyud Warno Utomo, Zulfahtun Ni'mah, Al Asyary (Author) 265-272



Changes in Pediatric Fracture Cases during the Coronavirus Disease 2019 Pandemic: Data from a National Referral Orthopedic Hospital in Indonesia

DOI: https://doi.org/10.3889/oamjms.2021.6720

Pamudji Utomo, Muhammad Yogatama Wirawan, Hendra Cahya Kumara, Mochamadsyah Beizar Yudistira (Author)

754-758



Demographic and Clinical Features Associated with in-Hospital Mortality in Egyptian COVID-19 Patients: A Retrospective Cohort Study

DOI: https://doi.org/10.3889/oamjms.2021.7226

Noha Asem, Mohamed Hassany, Khaled Taema, Hossam Masoud, Gehan Elassal, Ehab Kamal, Wagdy Abdel Moneim Amin, Akram AbdelBary, Amin Mohamed Abdel-Baki, Samy Zaky, Ahmad Said Abdalmohsen, Hamdy Mohamed Ibrahim, Mohamed Abdel Hakim Elnady, Ahmed Sh. Mohamed, Ehab Attia, Hala Zaid (Author)

1068-1075



The Burden of Penile Cancer in Bali Compared to Other Provinces in Indonesia

Penile Cancer

DOI: https://doi.org/10.3889/oamjms.2021.7472

Desak Putu Oki Lestari, I Nyoman Putu Riasa, Putu Kania Iswari Niramayah, Ni Wayan Armerinayanti, Putu Nita Cahyawati, Kartika Sari, Irianiwati Widodo, Rika Mubarika Haryana (Author)



Rural-urban Health Disparities for Cardiovascular Disease in the Republic of Kazakhstan

DOI: https://doi.org/10.3889/oamjms.2021.7598

Gulbarshyn Mukasheva, Tolkyn Bulegenov, Vladimir Kolyado, Altynai Kazyeva (Author) 1331-1337



Knowledge and Attitude of Medical Students at the Universitas Sumatera Utara toward Lifestyle that Contributes to Type 2 Diabetes

DOI: https://doi.org/10.3889/oamjms.2021.5907

Raphaella Raphaella, Mutiara Indah Sari (Author) 273-277



Stress Coping Strategies among Critical Care Medicine Physicians during COVID-19 Pandemic in Egypt: A Qualitative Study

DOI: https://doi.org/10.3889/oamjms.2021.5934

Rateba Said Mohammed, Marwa Rashad Salem, Ahmed Taher Mahmoud, Loay El Sabbahy, Shaimaa Ibrahim El-Jaafary (Author)

283-288

☑ PDF

Biting Pattern and Seasonality of Filariasis Vector of Mansonia spp. in Endemic Area of Banyuasin Regency, South Sumatera, Indonesia

DOI: https://doi.org/10.3889/oamjms.2021.6138

Rini Pratiwi, Adri Huda, Ahmad Ghiffari, Chairil Anwar (Author) 509-517



Willingness to Vaccinate against Coronavirus Disease 2019 and Related Predictors among Non-Healthcare Personnel in Indonesia

DOI: https://doi.org/10.3889/oamjms.2021.7056

Faridah Baroroh, Ferawati Suzalin, Indriani Indriani, Siti Sangadah, Istiningrum Istiningrum, Guntur Ilham Wahyudi, Muhammad Rayhan Nadhil Rafdilla (Author) 1097-1103



Fish Sellers Knowledge on Exposure of Mercury from Fish in the Kenjeran Beach Area, Surabaya

DOI: https://doi.org/10.3889/oamjms.2021.7328

Trias Mahmudiono, Eurika Zebadia, Diah Indriani, Stefania Setyaningtyas (Author) 1549-1552



Modeling Dynamic System for Prediction of Dengue Hemorrhagic Fever in Maros District

DOI: https://doi.org/10.3889/oamjms.2021.7098

Ilham Salam, A. Arsunan Arsin, Atjo Wahyu, Agus Bintara Birawida, Aminuddin Syam, Anwar Mallongi, Sukri Palutturi, Farid Agushybana, Aisyah Aisyah, Ahmad Yani, Muhammad Akbar Nurdin, Rezki Elisafitri (Author) 901-905



Cultural Barriers to Husband's Involvement in Maternal Health in Indonesia Rural Area, A **Qualitative Study**

DOI: https://doi.org/10.3889/oamjms.2021.7352

Syarifah Syarifah, Kintoko Rochadi, Tukiman Tukiman (Author) 1228-1232



Depression among Medical Staff during the Coronavirus Disease-19 Pandemic in Egypt: A **Comparative Web-Based Cross-Sectional Study**

DOI: https://doi.org/10.3889/oamjms.2021.7791

Noha M. Elghazally, Doaa Abdeldaim (Author) 1578-1585



Pattern and Determinant of Contraceptive Use among Women in Indonesia from 2007 to 2017: **Evidence from Demographic and Health Survey**

DOI: https://doi.org/10.3889/oamjms.2021.7417

Desy Nuri Fajarningtiyas, Dedik Sulistiawan, Margareth Maya Parulianta Naibaho, Riza Fatma Arifa (Author) 1363-1370



Food Consumption as a Risk Factor of Anemia among Indonesian Pregnant Women: A Crosssectional Study among Javanese Ethnic Group

DOI: https://doi.org/10.3889/oamjms.2021.6066

Mekar Dwi Anggraeni, Amin Fatoni, Rahmi Setiyani (Author)

552-558



Cost Comparison of Emergency Cesarean Section in Indonesia: The impact of Australian Model of Diagnosis-related Groups as a Payment System for Patient Care in Hospitals

DOI: https://doi.org/10.3889/oamjms.2021.5831

Sitti Rahmawati, Mark A Graber (Author); Mohammad Hakimi; Ali Ghufron Multi, Indra Bastian, Nurulhuda Rahman (Author)

216-223



Public Awareness on Prevention Behavior of Coronavirus Disease-19 at North Sulawesi Indonesia

DOI: https://doi.org/10.3889/oamjms.2021.6756

Ardiansa A.T. Tucunan, Adisti A. Rumayar, Budi T. Ratag, Brigitte Inez Maitimo (Author) 940-945



Handwashing Behavior Using Soap, Physical Conditions of Cooking Food Storage and Deare Incidence

DOI: https://doi.org/10.3889/oamjms.2021.7028

Tuhu Pinardi, Suparji Suparji (Author)

1017-1020



Analysis of Maternal and Infant Health Indicators in Kazakhstan: 2003-2018

DOI: https://doi.org/10.3889/oamjms.2021.7042

Madina Abenova, Ayan Myssayev, Lucy Kanya, Daulet Aldyngurov (Author) 1133-1139

_______ PDF

Potential Development of Digital Environmental Surveillance System in Dengue Control: A Qualitative Study

DOI: https://doi.org/10.3889/oamjms.2021.7653

Sang Purnama, Dewi Susanna, Umar Fachmi Achmadi, Tri Krianto, Tris Eryando (Author) 1443-1453



Food Consumption Patterns of Male and Female Undergraduate Students in Indonesia During New Normal Implementation of Pandemic Covid-19 Era **DOI:** https://doi.org/10.3889/oamjms.2021.5926

Kiki Kristiandi, Andi Eka Yunianto, Made Darawati, Tetty Herta Doloksaribu, Ike Anggraeni, Muksin Pasambuna, Oon Fatonah Akbarini (Author)

278-282

PDF

Improving the Performance of Children School Meal using Meal Report at Kindergarten School in Indonesia: A Quasi-Experimental Study

DOI: https://doi.org/10.3889/oamjms.2021.7111

Haripin Sinaga, Nurman Achmad, Yessi Alza, Berlin Sitanggang (Author) 974-979

🚨 PDF

Household Food Security, Nutritional Intake, and Nutritional Status of Pregnant Women in the Central Tapanuli Regency

DOI: https://doi.org/10.3889/oamjms.2021.7749

Etti Sudaryati, Fikarwin Zuska, Herta Masthalina (Author) 1560-1564

PDF

A Comparative Multicenter Study on the Epidemiology of Traumatic Fractures during the Coronavirus Disease 2019 Early Emergency Response Period in Yogyakarta Special Region, Indonesia

DOI: <u>https://doi.org/10.3889/oamjms.2021.6043</u>

Luthfi Hidayat, Bernadeta Fuad Paramita Rahayu, Rosyad Nur Khadafi, Acep Eko Budi Purwanta, Marda Ade Saputra, Eko Sumardiyono, Aditya Fuad Robby Triangga (Author) 455-460

∠ PDF

Factors Associated with Minimum Acceptable Diet in 6–11-Month-Old Indonesian Children Using the 2017 IDHS

DOI: https://doi.org/10.3889/oamjms.2021.7452

Eurika Zebadia, Trias Mahmudiono, Dominikus Raditya Atmaka, Mira Dewi , Siti Helmyati, Cindra Tri Yuniar (Author)

1403-1412

☑ PDF

The Influence of Factors of Breastfeeding and Food Consumption on Stunting Incidence among Preschool Children in Keerom District, Papua Province, Indonesia

DOI: https://doi.org/10.3889/oamjms.2021.6076

I. Rai Ngardita, Ratih Nurani Sumardi, Sanya Anda Lusiana, I. Komang Agusjaya Mataram, Andi Eka Yunianto (Author)
559-565

PDF

Malaria at Forest Areas in South Kalimantan, Indonesia: Risk Factors and Strategies for Elimination

DOI: https://doi.org/10.3889/oamjms.2021.7012

Istiana Istiana, Usman Hadi, Yoes Prijatna Dachlan, Heny Arwati (Author) 1147-1154



The Role of Cultural Capital in Strengthening the Relationship between Need and Demand for Contraceptive Devices and Drugs in Several Cultural Areas in Indonesia

DOI: https://doi.org/10.3889/oamjms.2021.7039

Lamia Diang Mahalia, Stefanus Supriyanto (Author) 1036-1040



Surgery Department during Coronavirus Disease 2019 Virus Lockdown: Multidepartment Experiences From Universitas Sebelas Maret

DOI: https://doi.org/10.3889/oamjms.2021.6144

Muhammad David Perdana Putra, Kristanto Yuli Yarso, Ikhdin Saadi, Yohanes Adinugroho (Author) 437-442



Community Knowledge and Attitudes about the Transmission of Dengue Haemorrhagic Fever and Its Relationship to Prevention Behaviour in Palembang, South Sumatra, Indonesia

DOI: https://doi.org/10.3889/oamjms.2021.7693

Minarti Minarti, Chairil Anwar, Irfannuddin Irfannuddin, Chandra Irsan (Author) 1534-1543



Secular Change in Body Size and Somatotype of Indonesian Children aged 7–15 Years (1999–2019)

DOI: https://doi.org/10.3889/oamjms.2021.6154

Neni Trilusiana Rahmawati, Janatin Hastuti (Author) 419-427



Health Demand: Empirical Study of Effective Urban Households Demand in Indonesia

DOI: https://doi.org/10.3889/oamjms.2021.6532

Mohamad Ichwan, Firmansyah Firmansyah, Eko Jokolelono (Author) 812-816



The Ethical Philosophic Dimension of Responsibility in Mitigating the COVID-19 Disaster in Indonesia

DOI: https://doi.org/10.3889/oamjms.2021.7722

Sigit Sapto Nugroho, Sarjiyati Sarjiyati, Anik Tri Haryani, Yuni Purwati, Arief Budiono, Heru Kuswanto (Author)

1-5

☑ PDF

Motivation Interview Effectiveness and Optimism Efficiency on the Quality of Life of Type 2 Diabetes Mellitus

DOI: https://doi.org/10.3889/oamjms.2021.6007

Ridwan Amiruddin, Nurhaedar Jafar, Jumriani Ansar, Zhanaz Tasya (Author) 402-405

☑ PDF

A One-year COVID-19 Pandemic Effect on the Orthopaedic Field in Indonesia: A Cross-sectional Multi-center Study

DOI: https://doi.org/10.3889/oamjms.2021.6927

Pamudji Utomo, Abdurrahman Afa Haridhi, Mochammadsyah Beizar Yudistira (Author) 805-811

☑ PDF

Determinant Factors Stroke Prevention Behavior among Hypertension Patient in Indonesia

DOI: https://doi.org/10.3889/oamjms.2021.6040

Arif Setyo Upoyo, Atyanti Isworo, Yunita Sari, Agis Taufik, Annas Sumeru, Akhyarul Anam (Author) 336-339

☑ PDF

Enrichment of Biscuits with Andaliman and Fermented Buffalo Milk Biscuits for the Intervention of Malnutrition in Children Under Five

DOI: https://doi.org/10.3889/oamjms.2021.6647

Diana Sembiring, Evawany Y. Aritonang, Amir Purba, Rahayu Lubis (Author) 670-674



Benzene Exposure Analysis through S-Phenylmercapturic Acid in Urine at Platelet Levels in Footwear Workers in Sukajaya Village, Bogor Regency

DOI: https://doi.org/10.3889/oamjms.2021.5783

Siti Norjannah, Ririn Arminsih Wulandari, Al Asyary (Author) 260-264



Effect of Vitamin A Supplementation, Cooking Oil Fortification, and Nutrition Education to Postpartum Mother on Breast Milk Retinol Levels

DOI: https://doi.org/10.3889/oamjms.2021.7006

Abdul Salam, Dodik Briawan , Drajat Martianto, Abdul Razak Thaha, Devintha Virani (Author) 823-827



High-density Lipoprotein Cholesterol as a Risk Factor of Health-Related Quality of Life in 50–70-Year-Old Community-Dwelling Women

DOI: https://doi.org/10.3889/oamjms.2021.7466

Raditya Wratsangka, Elly Herwana, Yenny Yenny, <mark>Endrico Xavieress,</mark> Aditya Krishnamurti (Author) 1092-1096



Household Food Insecurity, Level of Nutritional Adequacy, and Nutritional Status of Toddlers in the Coastal Area of Central Tapanuli Regency

DOI: https://doi.org/10.3889/oamjms.2021.7571

Herta Masthalina, Heru Santosa, Etty Sudaryat, Fikarwin Zuskar (Author) 1371-1375



Determinants of Acute Respiratory Infections Incidence in Children Under Five in the Working Area of the Siak Hulu II Community Health Center in Kampar Regency

DOI: https://doi.org/10.3889/oamjms.2021.5634

Agus Alamsyahi, Tri Kurniya, Ikhtiaruddin Ikhtiaruddin, Zulmeliza Rasyid (Author) 59-63



Specific Interventions to Prevent Stunting in Children Under 2 Years after the Natural Disaster

DOI: https://doi.org/10.3889/oamjms.2021.5677

Fahmi Hafid, Taqwin Taqwin, Linda Linda, Nasrul Nasrul, Kadar Ramadhan, Bohari Bohari (Author) 64-69



Determinants of Fertility among Women of Childbearing Age in North Sulawesi Province, Indonesia

DOI: https://doi.org/10.3889/oamjms.2021.5691

Sesca D. Solang, Brigitte Inez Maitimo, Jeanny J. Winokan, Dian Pratiwi, Bohari Bohari (Author) 127-131



Nutritional Status of School-aged Children with Intestinal Parasite Infection in South Jakarta, Indonesia

DOI: https://doi.org/10.3889/oamjms.2021.5711

Ika Puspa Sari, Sacha Audindra , Aqila S. Zhafira, Arin A. Rahma, Cut V. Syarira, Sri Wahdini (Author) 95-100



Awareness and Attitude toward Infection Control among Health Care Workers during Coronavirus Disease-19 Pandemic, Egypt

DOI: https://doi.org/10.3889/oamjms.2021.5717

Ahmed Yamany Ali, Abeer Attia Abdelkhalik, Shereen Esmat, Walaa Alsharany Abuelhamd, Hend Abdullah Elshemy, Mervat Essam Behiry (Author)

167-178



Preparedness Assessment of Physicians during Coronavirus Disease-19 Pandemic: A Cross-sectional Study

DOI: https://doi.org/10.3889/oamjms.2021.5724

Eman Moawad Elhabashi, Reham Farouk Tawfik, Fatma Maamoun Abou-Hashima (Author); Arwa Mohamed El Shafei; Fayrouz El-Aguizy (Author)

179-186



The RelationsThe Relationship between Lifestyle with the Risk of Diabetes Mellitus in Staff and Lecturers of Universitas Megarezky

DOI: https://doi.org/10.3889/oamjms.2021.5681

Irwansyah Irwansyah, Ilcham Syarief Kasim, Bohari Bohari (Author) 198-202



Analysis of Smoking Behavior Risk Factors in Adolescent through Health Belief Model Approaches

DOI: https://doi.org/10.3889/oamjms.2021.5685

Vina Yulia Anhar, Syamsul Arifin, Fauzie Rahman, Agus Muhammad Ridwan, Bohari Bohari (Author) 192-197



Public Health Disease Control

Health Behavior Education to Prevent Coronavirus Disease-19 in Orphanages: Roleplay Strategies

DOI: https://doi.org/10.3889/oamjms.2021.6870

Mahendro Prasetyo Kusumo (Author) 1480-1484



Reproductive Determinants of Breast Cancer in Women in Indonesia

DOI: https://doi.org/10.3889/oamjms.2021.7092

Sukmayenti Sukma, Nursyirwan Effendi, Wisma Arif Harahap, Hardisman Dasman (Author) 969-973



Endemicity of Dengue with Density Figure and Maya Index in Bengkulu City, Indonesia

DOI: https://doi.org/10.3889/oamjms.2021.7718

Dessy Triana, Lala Foresta Valentine Gunasari, Helmiyetti Helmiyetti, Martini Martini, Ari Suwondo, Muchlis A. U. Sofro, Miftahul Haniyah, Meilia Andini (Author) 1504-1511

Risk Factors for Tuberculosis in the Work Area Community Health Center Sabang, Dampelas District, Donggala Regency

DOI: https://doi.org/10.3889/oamjms.2021.6580

Dedi Mahyudin Syam, Ros Arianty, Djunaidil Syukur Sulaeman, Indro Subagyo (Author) 530-534



Prevalence and Predictors for Depression among Medical Students during Coronavirus Disease-19 Pandemic: A Cross-sectional Study

DOI: https://doi.org/10.3889/oamjms.2021.7390

Shereen Esmat, Abeer Attia, Eman Elhabashi (Author)

1454-1460

☑ PDF

Adolescents' Risk of Different Sexual Orientation Tendency in Terms of Family Factors (Case Study in Padang and Agam Regency)

DOI: https://doi.org/10.3889/oamjms.2021.6061

Lili Fajria, Nuzulia Irawati, Hema Malini, Mudjiran Mudjiran, Randi Refnandes (Author) 324-327



Development of a Decision-Making Approach for Mass Deworming Campaigns on Intestinal Parasites among Primary School Children in Egypt

DOI: https://doi.org/10.3889/oamjms.2021.6291

Noha Salah Abdelsamie Hassan, Ghada Nasr Radwan (Author)

1422-1433



eHealth Literacy and Self-care Behavior during the Coronavirus Disease-19 Pandemic among Youths: A Path Analysis

DOI: https://doi.org/10.3889/oamjms.2021.6664

Daniel Chriswinanto Adityo Nugroho, Dedik Sulistiawan, Riza Fatma Arifa, Maria Gayatri, Mardiana Dwi Puspitasari, Fuad Wahyu Prabowo (Author) 722-728

☐ PDF

The Role of Vitamin D in Respiratory Viral Infections and Other Infectious Diseases

DOI: https://doi.org/10.3889/oamjms.2021.6992

S. B. Dyussenova , M. Y. Gordiyenko , M. S. Askarov , G. K. Tuleuova , S. B. Suleimenova , G. S. Khussainova , B. I. Abisheva (Author)

1109-1114



The Effect of Disaster Management Education on Mother's Under Five Preparedness Facing Floods In Aceh Province

DOI: https://doi.org/10.3889/oamjms.2021.6455

Rachmawati Rachmawati, Rosi Novita, Ida Fitria (Author)



Strict and Comprehensive Tobacco Control Policy is Needed: A Qualitative Study Exploring How People Responding a New Policy of Pictorial Health Warning on Cigarette Package in Indonesia

DOI: https://doi.org/10.3889/oamjms.2021.6792

Fatwa Sari Tetra Dewi, Fitrina Kusumaningrum, Lastdes Friday, Fahmi Baiquni, Dhiya Urrahman, Rama Nur Kurniawan, Rendra Widyatama (Author)

759-768



The Effect of Age and Workload on Work Posture toward Musculoskeletal Disorders Complain on Loading and Unloading Workers

DOI: https://doi.org/10.3889/oamjms.2021.7277

Syamsiar S. Russeng, Lalu Muhammad Saleh, Widya Nur Wahyulianti, Sukri Palutturi (Author) 1115-1121



Lung Function Impairment in Construction Workers – Influence of Smoking and Exposure Duration

DOI: https://doi.org/10.3889/oamjms.2021.6145

Sasho Stoleski, Jordan Minov, Dragan Mijakoski, Dragana Bislimovska, Aneta Atanasovska, Jovanka Karadzinska-Bislimovska (Author)

406-414



Pathophysiology and Diagnostic Evaluation of Occupational Asthma from Exposure to Wood Dust and Diisocyanates in the Wood Processing Employees: A Preliminary Study

DOI: https://doi.org/10.3889/oamjms.2021.5989

Eko Prasetyo, Anies Anies, Nyoman Suci Widyastiti, Suhartono Suhartono (Author) 317-323



Philosophy, Law, and Ethics of Handling COVID-19 Pandemic in Indonesia

DOI: https://doi.org/10.3889/oamjms.2021.7107

Kelik Wardiono, Khudzaifah Dimyati, Sigit Sapto Nugroho, Heru Nugroho, Joel Rey Acob, Arief Budiono (Author)

1104-1108



Antenatal Care for Pregnant Women Infected with HIV/AIDS in Bonto Bahari District, Bulukumba Regency, Indonesia

DOI: https://doi.org/10.3889/oamjms.2021.6211

Sitti Raodhah, Sukfitrianty Syahrir, Nildawati Nildawati, Andi Nuryana, Abd. Majid H.R. Lagu (Author) 681-689



Trends of Emergency Calls During the Coronavirus Disease-19 Pandemic in Nur-Sultan

DOI: https://doi.org/10.3889/oamjms.2021.6629

Akerke Chayakova, Marjan Dauletyarova , Daulet Aldyngurov, Aiman Mussina, Roza Suleimenova, Aigul Utegenova, Murat Orazbayev, Gulnara Tuyakova (Author) 665-669



Evaluation of Water, Sanitation, and Hygiene, Behavioral Aspects, Household State for the Diarrhea Prevalence among Students in the Valley of Sinabung Volcano, North Sumatera, Indonesia

DOI: https://doi.org/10.3889/oamjms.2021.7404

Nenni Dwi Aprianti Lubis, Sri Amelia, Hemma Yulfi, Merina Panggabean, Muhammad Fakhrur Rozi (Author) 1175-1181



Diet Compliance, Blood Glucose Levels, and Hospitalization Duration of Type II Diabetes Mellitus Patients with Hypertension Complications in the Pancaran Kasih General Hospital, Manado

DOI: https://doi.org/10.3889/oamjms.2021.6970

Rivolta G. M. Walalangi, Nonce N. Legi, Olivia Ondang, Yohanis A. Tomastola, Vera T. Harikedua, Ellen Pesak, Irza N. Ranti, Ana B. Montol, Olga L. Paruntu, Daniel Robert, Jufri Sineke, Phembriah S. Kereh, Olfie Sahelangi (Author)

959-963



Saliva Iron Levels to Assess Iron Status in Children

DOI: <u>https://doi.org/10.3889/oamjms.2021.6770</u>

Rostika Flora, Mohammad Zulkarnain, Nur Alam Fajar, Indah Yuliana, Risnawati Tanjung, Helfi Nolia, Sulaiman Sulaiman, Aguscik Aguscik (Author) 843-846



Relationship of Ability of Family Caregivers and Society's Stigma to Prevent Relapse and Improve the Quality of Life for People with Mental Disorders

DOI: https://doi.org/10.3889/oamjms.2021.7033

Agustin Widyowati, Bhisma Murti, Aris Sudiyanto (Author)

1190-1193



Public Buses Decontamination by Automated Hydrogen Peroxide Aerosolization System

DOI: https://doi.org/10.3889/oamjms.2021.6828

Attapol Arunwuttipong, Parinton Jangtawee, Viwat Vchirawongkwin, Wiyong Kangwansupamonkon, Kavin Asavanant, Sanong Ekgasit (Author)

847-856



The Role of Hygiene and Sanitation to the Escherichia coli Contamination in Drinking Water in Depok City, Indonesia

DOI: https://doi.org/10.3889/oamjms.2021.6152

Bambang Wispriyono, Lia Arsyina, Iqbal Ardiansyah, Laura D. Pratiwi, Ririn Arminsih, Budi Hartono, Nurmalasari Nurmalasari, Randy Novirsa (Author) 641-644



Beetroot Juice and Red Spinach Juice to Increase Hemoglobin Levels in Anemic Adolescent Girls

DOI: https://doi.org/10.3889/oamjms.2021.6871

Rudolf Boyke Purba, Olga Lieke Paruntu, Irza Nanda Ranti, Vera Harikedua, Grace Langi, Jufri Sineke, Joice Mermy Laoh, Ellen Pesak, Yohanis Tomastola, Daniel Robert, Salman Salman (Author) 857-860



General Public Awareness about the Indications and Complications of Sleeve Gastrectomy in Qassim Region, Saudi Arabia

DOI: https://doi.org/10.3889/oamjms.2021.7719

Hayfa Alolayan, Anwar Aldubayyan, Asma Aldhohayan, Rawaf AlBassam, Shoug Almarzuqi, Taif Almoqaiteb, Ghadah Almutlaq, Lubna Alquwayfili (Author)

1517-1521



Personal and Perceived Stigmas in Adolescents toward Peers with Mental Disorders in West Sumatra Indonesia

DOI: https://doi.org/10.3889/oamjms.2021.6583

Rika Sarfika, Nursyirwan Effendi, Hema Malini, Adnil Edwin Nurdin (Author)



A Cross-sectional Online Survey on Public Attitudes towards Wearing Face Masks and Washing Hands to Prevent the Spread of COVID-19 in Indonesia

DOI: https://doi.org/10.3889/oamjms.2021.6907

Hotma Rumahorbo, Priyanto Priyanto, Atin Karjatin (Author) 1238-1243



The Effectiveness of the Sizerebotif Multimedia Filter Method in Improving the Quality of Dug Well Water to be Clean Water for Communities in Sinjai Regency

DOI: https://doi.org/10.3889/oamjms.2021.7000

Mulyadi Mulyadi, Zaenab Zaenab, Ain Khaer, Zrimurti Mappau, Adriyani Adam (Author) 1224-1227



Effects of Health Education Based Intervention on Community's Perception, Healthy House, and Social Capital of Dengue in Endemic Area of Sleman Regency Indonesia

DOI: https://doi.org/10.3889/oamjms.2021.6087

Tri Wahyuni Sukesi, Tri B. T. Satoto, Elsa H. Murhandarwati, Retna Siwi Padmawati (Author) 428-436



Sharing of Personal Sanitary Kits as One Risk Factor of Horizontal Transmission of Hepatitis B among Children Resident at Orphanage

DOI: https://doi.org/10.3889/oamjms.2021.6406

Norma Tiku Kambuno, Karol Octrysdey, Kuntum Ekawati Nurdin, Yoan Novicadlitha, Elisabeth N. Barung, Fahmy Hafid (Author)

518-523



The Effect of Lead Exposure through Drinking Water on Symptoms of Nervous System Disorders in Communities Around Pasir Sembung Landfill Cianjur, Indonesia, 2020

DOI: https://doi.org/10.3889/oamjms.2021.7530

Budi Hartono, R. Siti Mardiyanti Pratiwi (Author)

1413-1417



Spatial Pattern Analysis of Malaria Cases in Muara Enim Regency using Moran Index and Local Indicator Spatial Autocorrelation

DOI: https://doi.org/10.3889/oamjms.2021.6456

Elvi Sunarsih, Muhammad Zulkarnain, Laila Hanum, Rostika Flora, Nurhayati Damiri (Author) 695-701



The Effectiveness of Chlorpromazine to Decrease the Level of Tumor Necrosis Factor-Alpha Serum in Schizophrenic Patients with Coronavirus Disease 2019

DOI: https://doi.org/10.3889/oamjms.2021.7702

Andi Jayalangkara Tanra, Ahmad Andi Sameggu, Rinvil Renaldi, Burhanuddin Bahar, Saidah Syamsuddin, Muhammad Ilyas, Sonny T. Lisal (Author)

1606-1616



Perception and Behavior about Electric Cigarette in Electric Cigarette Users in Medan City, Indonesia

DOI: https://doi.org/10.3889/oamjms.2021.5701

Bianca Franchyeda, Bintang Yinke Magdalena Sinaga (Author) 235-240



Knowledge, Attitude, and Behavior toward COVID-19 Prevention on Indonesian during Pandemic

DOI: https://doi.org/10.3889/oamjms.2021.5990

Retno Widowati, Albiruni Raushanfikri (Author)

398-401



The Effectiveness of Betle Leaf (Piper betle L.) Extract as a Bio-pesticide for Controlled of Houseflies (Musca domestica L.)

DOI: https://doi.org/10.3889/oamjms.2021.6886

Prayudhy Yushananta, Mei Ahyanti (Author)

895-900



Elderly Psychological Conditions in the Nursing Home Tresna Werdha (Pstw): A Study Descriptive Riau and West Sumatra Indonesia

DOI: https://doi.org/10.3889/oamjms.2021.6219

Nurvi Susanti, Zulfan Saam, Nofrizal Nofrizal, Zahtamal Tamal, Nofri Hasrianto (Author)



Determination of Climate and Social Community Factors in Coronavirus Disease-19 Spread Distribution

DOI: https://doi.org/10.3889/oamjms.2021.6932

Faradiba Faradiba, Lodewik Zet (Author)

1434-1442

PDF

Egyptian Public's Knowledge, Attitudes, Perceptions, and Practices toward COVID-19 Infection and Their Determinants. A Cross-Sectional Study, 2020

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Doaa I. Omar, Samar A. Amer (Author)

250-259

☑ PDF

Zinc Intake, Zinc Serum Levels, and Intelligence in School Children in Rural Areas

DOI: https://doi.org/10.3889/oamjms.2021.5869

Rostika Flora, Nur Alam Fajar, Fatmalina Febri, Indah Yuliana, Yuliarti Yuliarti, Nurlaili Nurlaili, Ikhsan Ikhsan, Samwilson Slamet, Risnawati Tanjung, Aguscik Aguscik, Yeni Anna Appulembang, Mohammad Zulkarnain (Author)

394-397

☑ PDF

Assessment of Psychological Distress among the General Public in Saudi Arabia during the Coronavirus Disease-19 Pandemic

DOI: https://doi.org/10.3889/oamjms.2021.6468

Mona Almanasef, Dalia Almaghaslah (Author) 608-613

PDF

Fatigue on Oil Refinery Workers and Related Factors

DOI: https://doi.org/10.3889/oamjms.2021.6879

Iwan Muhamad Ramdan, Krishna Purnawan Candra, Ulfah Rana Mahdiyyah (Author) 887-894



The Influence of Giving Sweet Potato Leaf Boiled Water to the Acceleration of Breastmilk Production in Nursing Mothers in the Kuta Baro Health Center, Aceh Besar, Indonesia

DOI: https://doi.org/10.3889/oamjms.2021.5706

Maharani Maharani, Nurbaiti Nurbaiti, Lia Lajuna, Yulia Fitri, Putri Santi, Sutrisno Sutrisno (Author) 246-249



Factors Associated with the Behavior of Men who Have Sex with Men in the Prevention of Human Immunodeficiency Virus Transmission

DOI: https://doi.org/10.3889/oamjms.2021.6205

Purwaningsih Purwaningsih, Talia Puspita Adianti, Sylvia Dwi Wahyuni, Hidayat Arifin (Author) 789-793



Comparative Study of Risk Profiles for Non-Communicable Diseases in Urban and Suburb Adolescents in Padang City (Indonesia)

DOI: https://doi.org/10.3889/oamjms.2021.7395

Meri Neherta, Yonrizal Nurdin (Author)

1233-1237



A Qualitative Study Inquiry among Patients with Diabetic Foot Ulcers: What have They Felt?

DOI: https://doi.org/10.3889/oamjms.2021.6262

Kusnanto Kusnanto, Mohamad Alfaqih, Padoli Padoli, Hidayat Arifin (Author) 574-580



Exploration of the Profile and Intention in Restricting Online Game in Teenagers with Gaming Disorder: A Qualitative Study

DOI: https://doi.org/10.3889/oamjms.2021.7209

Sitti Djannah, Fatwa Tentama, Rendi Sinanto, Sulistyawati Sulistyawati, Surahma Asti Mulasari, Tri Wahyuni Sukesi, Rokhmayanti Rokhmayanti, Siti Kurnia Widi Hastuti, Muhammad Syamsu Hidayat, Ulinnuha Yudiansa Putra (Author)

1140-1146



Determinant of Smoking Behavior among Elementary Student in Indonesia: A Structure Equation Model

DOI: https://doi.org/10.3889/oamjms.2021.5833

Astrid Novita Haryanto, Melinda Noer, Agustin Kusumayati, Rizanda Machmud, Hafizurrachman Hafizurrachman, Adang Bachtiar (Author)

773-778



Family Attitudes and Behavior toward Tuberculosis Prevention in the Lembang Health Center Area, West Sulawesi, Indonesia

DOI: https://doi.org/10.3889/oamjms.2021.7267

Muzakkir Muzakkir, Hermin Husaeni, Ika Muzdaliah, Nurul Annisa (Author) 1491-1494



Effects of the COVID-19 Pandemic on the Stress Level of Tsunami-Affected Communities Living in Temporary Housing in Palu City-Indonesia

DOI: https://doi.org/10.3889/oamjms.2021.5584

Rosmala Nur, Ulfa Aulia, Muh. Ryman Napirah, Vidiyanto Vidiyanto, Muthia Aryuni, Syaiful Hendra, Hajra Rasmita Ngemba, Muh Rusydi (Author)

70-75



The Effect of Educational Intervention on Knowledge and Attitudes toward Sexually Transmitted Infections on a Sample of Egyptian Women at Primary Care Level

DOI: https://doi.org/10.3889/oamjms.2021.5638

Tarek Tawfik Amin, Yasmine Samir Galal, Dina Samy Shaheen , Marwa Rshad Salem (Author) 138-144



Assessment of Quality of Life among Beta-Thalassemia Major Patients Attending the Hematology Outpatient Clinics at Cairo University Hospital

DOI: https://doi.org/10.3889/oamjms.2021.5692

Mona Hamdy, Iman Hassan Draz, Inas Talaat El Sayed, Azza Ali Fahmy Ayyad, Marwa Rashad Salemd (Author)

156-160



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High-density Lipoprotein Cholesterol as a Risk Factor of Health-Related Quality of Life in 50-70-Year-Old Community-Dwelling Women

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Abstract

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BACKGROUND: The prevalence of dyslipidemia, a risk factor of cardiovascular disease, is at present sufficiently high, particularly in the elderly. Health-related quality of life (HRQoL) is also an important outcome in the treatment of dyslipidemia, which is currently more targeted at lowering the low-density lipoprotein cholesterol (LDL-C) concentration.

AIM: The aim of this study was to determine the relationship between the high-density lipoprotein cholesterol (HDL-C) concentration and HRQoL in community-dwelling women aged 50–70 years.

METHODS: A cross-sectional study involving 137 women aged 50–70 years who underwent blood sampling for determining the concentrations of hemoglobin, total cholesterol (TC), LDL-C, and HDL-C. A questionnaire was given to all subjects regarding data on age, menopausal status, level of education, and also another questionnaire of SF-36 for evaluation HRQoL. Bivariate and multivariate logistic regression analysis was used to identify risk factors associated with HRQol

RESULTS: In bivariate logistic regression analysis, age, menopausal status, education level, anemia, TC, and LDL-C were found to have non-statistically significant association with HRQoL, but HDL-C was significantly associated with HRQoL (odds ratio = 0.44; 95% Confidence interval [CI] = 0.20-0.97; p = 0.042). In multivariate analysis, menopausal status and education level have a non-statistically significant association with HRQoL, but those normal level of HDL cholesterol was found 0.18 times less likely to be associated with poor HRQoL (Adjusted odds ratio 0.18; 95% CI = 0.03-0.91; p = 0.038).

CONCLUSION: This study showed that HDL-C levels were risk factors of HRQoL in women 50-70 years of age.

Introduction

The health-related quality of life (HRQoL) is currently an important outcome that is reported by patients during or after treatment of a disorder, in addition to increasing the life expectancy in such chronic conditions as hypertension, cardiac failure, and diabetes [1]. Various health problems may occur with increasing age of an individual, and the life style changes that occur in old age may result in dyslipidemia. The prevalence of dyslipidemia in subjects aged >60 years is around 56.8%, with high total cholesterol (TC), high low-density lipoprotein cholesterol (LDL-C), low high-density lipoprotein cholesterol (HDL-C), and high triglycerides prevalence rates of 8.4%, 13.9%, 23.1%, and 11.4%, respectively [2].

Dyslipidemia, especially of LDL-C, has a causal relationship with atherosclerotic cardiovascular disease according to genetic, observational, and clinical

outcome studies [3], [4]. Several epidemiological studies have also demonstrated that a low plasma HDL-C concentration is a risk factor of cardiovascular disease. The HDL-C concentration may predict cardiovascular incidence, even in patients who have been treated with statins, but clinical studies on the relationship of increased HDL-C concentration with cardiovascular protection are not convincing [5], [6].

The results of the previous studies demonstrate a still inconsistent relationship between HDL-C concentration and quality of life. Studies conducted on a group of male and female subjects aged 50–79 years showed that a decrease in LDL-C concentration and an increase in HDL-C concentration are associated with increased HRQoL [7]. However, inconsistent results were found in a study involving subjects aged 100 years and over, showing that HDL-C concentration is not significantly associated with quality of life [8]. Therefore, a study was performed to determine plasma HDL-C concentration as a risk factor of HRQoL in

community-dwelling women aged between 50 and 70 years.

Material and Methods

Study design and participants

This was a cross-sectional study conducted in five villages (kelurahan) of Mampang Prapatan Sub-district, South Jakarta, from March to July 2020. The sample size was calculated based on a correlation between HDL-C concentration and HRQoL of 0.34 (data from a preliminary study using 40 women aged 50–70 years), σ = 0.05 and β = 0.1, from which a sample size of 113 subjects was found. With an anticipated study drop-out rate of 15%, the optimal sample size was found to be 130. The inclusion criteria were women aged between 50 and 70 years, agreeing to undergo a complete blood examination, capable of good communication, and agreeing to sign informed consent. Women with neurological disorders (stroke, epilepsy, Parkinson's disease, and dementia), and psychiatric disorders (major depression and psychosis) were excluded from the study. Selection of the study subjects was by consecutive non-random sampling.

Informed consent was signed by the subjects after having received oral and written information on the general outlines of the study. For the protocol of this study, ethical clearance was obtained from the Research Ethics Commission, Faculty of Medicine, Universitas Trisakti under no. 160/KER/FK/II/2020.

Questionnaire

To all subjects, a questionnaire was given regarding data on socio-demographic characteristics comprising age, menopausal status, and level of education. The variable of age, menopause status, and education level was each categorized into two groups: (1) Age: (a) <60 years and (b) ≥60 years; (2) menopause status: (a) Premenopause and (b) postmenopause; and (3) education level: (a) Low and (b) moderate/high.

HRQoL

Evaluation of the HRQoL was performed using the SF-36 questionnaire consisting of 36 questions or statements. The filling-in of the questionnaire was done with the assistance of the enumerators in interviews with the subjects. There was also an evaluation of the physical component summary (PCS) with four subcomponents (physical functioning, physical limitations, bodily pain, and general health); and a mental component summary (MCS) with four subcomponents (vitality, social functioning, emotional

limitations, and mental health). The quality of life (HRQoL) of the subjects was considered to be good if the SF-36 score was above the median value, and to be poor if the score was under the median value for SF-36 total score, SF-36 PCS, and SF-36 MCS as well as each of the subcomponents [9], [10], [11].

Laboratory analysis

The subjects were required to fast for 10-12 h from 20:00 h of the preceding night. On the following day, 14 mL of venous blood was drawn from the right cubital vein of each of the subjects. The hemoglobin (Hb) concentration was determined by the cyanide-free sodium lauryl sulfate Hb detection method using an automated hematological analyzer (type KX-21N, Kobe, Japan). TC and triglyceride concentrations were determined by means of an enzymatic-colorimetric method, while measurement of LDL-C and HDL-C concentrations was by means of the homogenous enzymatic-colorimetric method using the Cobas 311 instrument (Roche Products Ltd. Basel, Switzerland). These variables of laboratory results were each also categorized into two groups: (1) Hb concentration (g/dL): (a) Normal: ≥12 and (b) low (anemia): <12; (2) TC (mg/dL): (a) Normal: <200 and (b) high: ≥200; (3) LDL-C concentration (mg/dL): (a) Normal: <100 and (b) high ≥100; and (4) HDL-C concentration (mg/dL): (a) Normal: ≥40 and (b) low: <40.

Quality control

All the enumerators were trained on interview technique. The questionnaire was collected on the spot after completion and uniformly numbered in the order of site and recall questionnaire. The laboratory examination was performed by laboratory technicians (who were blinded as to the identity of the subjects to whom the blood samples belonged) at the Prodia Clinical Laboratory—Jakarta that had obtained the SNI certification ISO 15189:2012 as a medical laboratory with regard to quality requirements and competence. The data were checked to avoid inconsistency.

Statistical analysis

The SPSS version 25 was used for data processing. Descriptive analysis was presented as frequency for categorical data. Bivariate logistic regression analysis was used to find associations between the independent variables and the HRQoL. All the variables showing a significant association in a bivariate analysis at p < 0.25 were entered into a multivariate logistic regression model to determine risk factors associated with the HRQoL. p < 0.05 was considered statistically significant.

E - Public Health Public Health Epidemiology

Results

Age and clinical characteristics

The number of subjects aged <60 years and ≥60 years is almost evenly matched, and the majority of the subjects were already in menopause (94.2%), had a low level of education (64.9%). A total of 24 (17.5%) subjects had a low Hb concentration (anemia); 82 (55.9%) subjects had a high TC, 119 (86.9%) subjects had a high LDL-C, and 11 (8%) subjects had a low HDL-C. The number of subjects with poor and good HRQoL is almost balanced, both for total HRQoL, HRQoL PCS, and MCS (Table 1).

Table 1: Distribution of subject based on socio-demographic factor, laboratory findings, and HRQoL (n = 137)

Variables	n (%)
Age (years)	
- <60	70 (51.1)
- ≥60	67 (48.9)
Menopause status	
- Premenopause	8 (5.8)
- Postmenopause	129 (94.2)
Education level	
- Low	89 (64.9)
- Moderate/High	48 (35.1)
Anemia status	
- No	113 (82.5)
- Yes	24 (17.5)
Total cholesterol	
- Normal	55 (40.1)
- High	82 (55.9)
LDL cholesterol	
- Normal	18 (13.1)
- High	119 (86.9)
HDL cholesterol	
- Normal	126 (92.0)
- Low	11 (8.0)
HRQoL (total)	
- Poor	69 (50.4)
- Good	68 (49.6)
HRQoL – Physical Component	
- Poor	67 (48.9)
- Good	70 (51.1)
HRQoL – Mental Component	
- Poor	68 (49.6)
- Good	69 (50.4)

HRQoL: Health-related quality of life, HDL: High-density lipoprotein, LDL: Low-density lipoprotein

Risk factors associated with HRQoL

Age and several risk factors associated with HRQoL were explored using bivariate logistic regression analysis and subsequent multivariate logistic regression analyses. In bivariate logistic regression analysis, age, menopausal education level, anemia, TC, and LDL cholesterol were found to have non-statistically significant association with HRQoL (Table 2). However, HDL cholesterol was significantly associated with HRQoL (odds ratio = 0.44; 95% Confidence interval [CI] = 0.20-0.97; p = 0.042) (Table 2). Normal HDL cholesterol level was found 0.44 times less likely to be associated with poor HRQoL.

Table 2: Bivariate logistic regression between risk factors and HRQoL in women 50-70 years of age

Risk factor	OR	95% CI	р
Age (years)			
• <60	1,37	0.70-2.76	0.349
• ≥60	1		
Menopausal status			
Premenopause	0.12	0.01-1.01	0.055
Postmenopause	1		
Education level			
• Low	0.51	0.25-1.04	0.065
 Moderate/High 	1		
Anemia status			
• No	0.65	0.26-1.59	0.350
Yes	1		
Total cholesterol			
Normal	0.96	0.48-1.91	0.917
High	1		
LDL-cholesterol			
Normal	0.78	0.29-2.19	0.637
High	1		
HDL-cholesterol			
Normal	0.44	0.20-0.97	0.042
• Low	1		

HRQoL: Health-related quality of life, OR: Odds ratio, CI: Confidence interval, HDL: High-density

lipoprotein, LDL: Low-density lipoprotein

In multivariate analysis, menopausal status and education level have not a statistically significant association with HRQoL (Table 3). Those normal level of HDL cholesterol was found 0.18 times less likely to be associated with poor HRQoL (Adjusted odds ratio = 0.18; 95% CI = 0.03-0.91; p = 0.038) (Table 3). It can be concluded that HDL-C levels were a risk factors. of HRQoL.

Discussion

In the present study, we found that the majority of subjects were in postmenopausal. However, menopausal status was not a risk factor of HRQoL. Moreover, this result was in-line with a population-based survey based on 1140 Greek middle-age women found no effect of menopause on the HRQOL [12]. Another study showed different results compared to our study, women experiencing menopause may have impaired HRQOL [13]. Menopause is also the stage of life that is marked by changes in the role of the menopausal woman, such as the cessation of child rearing and child care, or even the prospect of her being abandoned by the children. Although the biological impact of menopause (such as bone loss) is known with regard to its characteristics, the impact of menopause on the functioning and welfare of women (HRQoL) is still unclear [14], [15]. From the results of observations spanning a period of 5 years, Hess et al. [16] found that menopause had a negative impact on several subcomponents of HRQoL, apart from the symptoms of menopause; even the quality of life of the postmenopausal women did not improve after the symptoms of menopause had disappeared.

Table 3: Multiple logistic regression between risk factors and HRQoL in women 50-70 years of age

Risk factor	AOR	95% CI	р
Menopausal status			
 Premenopause 	0.15	0.01-1.39	0.091
Postmenopause	1		
Education level			
• Low	0.53	0.25-1.11	0.094
 Moderate/High 	1		
HDL cholesterol			
Normal	0.18	0.03-0.91	0.038
• Low	1		

AOR: Adjusted odds ratio, CI: confidence interval, HDL: High-density lipoprotein, LDL: Low-density lipoprotein

Subjects with anemia had a lower quality of life (HRQoL) as compared to subjects with normal Hb concentration (without anemia), but not statistically significant. The impact of anemia on HRQoL has been studied in patients from a number of different populations, and most studies found a relationship between HRQoL and anemia in elderly individuals, which on the subscale level was particularly associated with physical health. Various models of multivariate analysis have concluded that anemia is an independent risk factor of decreased HRQoL in the elderly group. In South Korea, data from the Korean National Health and Nutrition Examination Survey, that used the EQ-5D questionnaire, showed that the overall incidence of anemia in individuals aged 10 years and above was around 8.2% in 2005–2015 [17].

In this study, it was found that LDL-C was not a risk factor of HRQoL. Dyslipidemia, especially of LDL-C, has a causal relationship with atherosclerotic cardiovascular disease according observational, and clinical outcome studies. A number of study results also showed that dyslipidemia impacts on quality of life (QoL), in that patients with dyslipidemia have a low HRQoL when compared with patients without dyslipidemia [4], [5]. In the multivariate logistic regression on HRQoL involving various risk factors of HRQoL (menopausal status, educational status, and HDL-C), it may be observed that the group of subjects with low HDL-C had a significantly lower quality of life in comparison with the group of subjects with normal HDL-C concentration. From the results of this study, it is also apparent that a low HDL-C concentration was a risk factor of HRQoL. The previous study results showed a still inconsistent relationship between HDL cholesterol concentration and quality of life. The Chinese Hypertension Intervention Efficacy randomized controlled trial conducted on a group of 13,542 men and women aged 50-79 years showed that decreased LDL-C concentration and increased HDL-C concentration were associated with increased HRQoL [14]. The inconsistent results found in a study involving subjects aged 100 years and over showed that HDL-C concentration was not significantly associated with quality of life [8]. Among the oldest elderly (100 years or over), it was found that increased lipid profile was not a risk factor for health and longevity, but in contrast became a protective factor, which differs from traditional reasoning about the impact of blood lipids on health [18], [19].

There is strona evidence for the relationship between high LDL-C concentration and cardiovascular events based on studies of clinical outcomes [20], [21], such that LDL-C constitutes the main target in the management of dyslipidemia. A number of epidemiological studies have also demonstrated that low plasma HDL-C concentration is a risk factor of cardiovascular disease. Similarly, several large-scale randomized clinical trials have proven that administration of HDL-C-increasing medications to patients with low HDL-C and high triglyceride concentrations may yield beneficial clinical effects. However, up to now the causal relationship between HDL-C concentration and cardiovascular disease cannot be explained. HDL-C may predict cardiovascular events even in patients on statin treatment, but clinical studies on the relationship between increased HDL-C concentration and cardiovascular protection are not convincing [8], [22]. HDL-C is at present used for estimating cardiovascular risk and is not a therapeutic target because the clinical studies are not convincing, even in high-risk patients with the LDL-C concentration meeting the therapeutic target. An HDL-C concentration of >40 mg/dL in males and >50 mg/dL in women only indicates a lower level of risk.

Limitation

This observational study with cross-sectional approach cannot prove a causal relationship between HDL-C concentration and HRQoL. Data collected through interview of study participants were subjected to recall bias, particularly in questions related to past events.

Conclusions and Recommendation

This study demonstrated that HDL-C concentrations were significantly a risk factor of HRQoL in women aged 50–70-years. The effect of lipid profile on health status needs to be considered and further verified in women aged 50–70 years. As a follow-up to this study, there is a need for conducting a study with a better design, such as a cohort study, that can determine a cause-and-effect relationship between HDL-C concentration and quality of life in women aged 50–70 years.

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dr.Raditya Wratsangka

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High-density Lipoprotein Cholesterol as a Risk Factor of Health-Related Quality of Life in 50-70-Year-Old Community-**Dwelling Women**

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Abstract

BACKGROUND: The prevalence of dyslipidemia, a risk factor of cardiovascular disease, is at present sufficiently high, particularly in the elderly. Health-related quality of life (HRQoL) is also an important outcome in the treatment of dyslipidemia, which is currently more targeted at lowering the low-density lipoprotein cholesterol (LDL-C)

AIM: The aim of this study was to determine the relationship between the high-density lipoprotein cholesterol (HDL-C) concentration and HRQoL in community-dwelling women aged 50-70 years.

METHODS: A cross-sectional study involving 137 women aged 50-70 years who underwent blood sampling for determining the concentrations of hemoglobin, total cholesterol (TC), LDL-C, and HDL-C. A questionnaire was given to all subjects regarding data on age, menopausal status, level of education, and also another questionnaire of SF-36 for evaluation HRQoL. Bivariate and multivariate logistic regression analysis was used to identify risk factors associated with HRQoI

RESULTS: In bivariate logistic regression analysis, age, menopausal status, education level, anemia, TC, and LDL-C were found to have non-statistically significant association with HRQoL, but HDL-C was significantly associated with HRQoL (odds ratio = 0.44; 95% Confidence interval [CI] = 0.20-0.97; p = 0.042). In multivariate analysis, menopausal status and education level have a non-statistically significant association with HRQoL, but those normal level of HDL cholesterol was found 0.18 times less likely to be associated with poor HRQoL (Adjusted odds ratio 0.18; 95% CI = 0.03-0.91; p = 0.038).

CONCLUSION: This study showed that HDL-C levels were risk factors of HRQoL in women 50-70 years of age.

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Introduction

The health-related quality of life (HRQoL) is currently an important outcome that is reported by patients during or after treatment of a disorder, in addition to increasing the life expectancy in such chronic conditions as hypertension, cardiac failure, and diabetes [1]. Various health problems may occur with increasing age of an individual, and the life style changes that occur in old age may result in dyslipidemia. The prevalence of dyslipidemia in subjects aged >60 years is around 56.8%, with high total cholesterol (TC), high low-density lipoprotein cholesterol (LDL-C), low highdensity lipoprotein cholesterol (HDL-C), and high triglycerides prevalence rates of 8.4%, 13.9%, 23.1%, and 11.4%, respectively [2].

Dyslipidemia, especially of LDL-C, has a causal relationship with atherosclerotic cardiovascular disease according to genetic, observational, and clinical outcome studies [3], [4]. Several epidemiological studies have also demonstrated that a low plasma HDL-C concentration is a risk factor of cardiovascular disease. The HDL-C concentration may predict cardiovascular incidence, even in patients who have been treated with statins, but clinical studies on the relationship of increased HDL-C concentration with cardiovascular protection are not convincing [5], [6].

The results of the previous studies demonstrate inconsistent relationship between HDL-C concentration and quality of life. Studies conducted on a group of male and female subjects aged 50-79 years showed that a decrease in LDL-C concentration and an increase in HDL-C concentration are associated with increased HRQoL [7]. However, inconsistent results were found in a study involving subjects aged 100 years and over, showing that HDL-C concentration is not significantly associated with quality of life [8]. Therefore, a study was performed to determine plasma HDL-C concentration as a risk factor of HRQoL in

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community-dwelling women aged between 50 and 70 years.

Material and Methods

Study design and participants

This was a cross-sectional study conducted in five villages (kelurahan) of Mampang Prapatan Sub-district, South Jakarta, from March to July 2020. The sample size was calculated based on a correlation between HDL-C concentration and HRQoL of 0.34 (data from a preliminary study using 40 women aged 50–70 years), σ = 0.05 and β = 0.1, from which a sample size of 113 subjects was found. With an anticipated study drop-out rate of 15%, the optimal sample size was found to be 130. The inclusion criteria were women aged between 50 and 70 years, agreeing to undergo a complete blood examination, capable of good communication, and agreeing to sign informed consent. Women with neurological disorders (stroke, epilepsy, Parkinson's disease, and dementia), and psychiatric disorders (major depression and psychosis) were excluded from the study. Selection of the study subjects was by consecutive non-random sampling.

Informed consent was signed by the subjects after having received oral and written information on the general outlines of the study. For the protocol of this study, ethical clearance was obtained from the Research Ethics Commission, Faculty of Medicine, Universitas Trisakti under no. 160/KER/FK/II/2020.

Questionnaire

To all subjects, a questionnaire was given regarding data on socio-demographic characteristics comprising age, menopausal status, and level of education. The variable of age, menopause status, and education level was each categorized into two groups: (1) Age: (a) <60 years and (b) ≥60 years; (2) menopause status: (a) Premenopause and (b) postmenopause; and (3) education level: (a) Low and (b) moderate/high.

HRQoL

Evaluation of the HRQoL was performed using the SF-36 questionnaire consisting of 36 questions or statements. The filling-in of the questionnaire was done with the assistance of the enumerators in interviews with the subjects. There was also an evaluation of the physical component summary (PCS) with four subcomponents (physical functioning, physical limitations, bodily pain, and general health); and a mental component summary (MCS) with four subcomponents (vitality, social functioning, emotional

limitations, and mental health). The quality of life (HRQoL) of the subjects was considered to be good if the SF-36 score was above the median value, and to be poor if the score was under the median value for SF-36 total score, SF-36 PCS, and SF-36 MCS as well as each of the subcomponents [9], [10], [11].

Laboratory analysis

The subjects were required to fast for 10–12 h from 20:00 h of the preceding night. On the following day, 14 mL of venous blood was drawn from the right cubital vein of each of the subjects. The hemoglobin (Hb) concentration was determined by the cyanide-free sodium lauryl sulfate Hb detection method using an automated hematological analyzer (type KX-21N, Kobe, Japan). TC and triglyceride concentrations were determined by means of an enzymatic-colorimetric method, while measurement of LDL-C and HDL-C concentrations was by means of the homogenous enzymatic-colorimetric method using the Cobas 311 instrument (Roche Products Ltd. Basel, Switzerland). These variables of laboratory results were each also categorized into two groups: (1) Hb concentration (g/dL): (a) Normal: ≥12 and (b) low (anemia): <12; (2) TC (mg/dL): (a) Normal: <200 and (b) high: ≥200; (3) LDL-C concentration (mg/dL): (a) Normal: <100 and (b) high ≥100; and (4) HDL-C concentration (mg/dL): (a) Normal: ≥40 and (b) low: <40.

Quality control

All the enumerators were trained on interview technique. The questionnaire was collected on the spot after completion and uniformly numbered in the order of site and recall questionnaire. The laboratory examination was performed by laboratory technicians (who were blinded as to the identity of the subjects to whom the blood samples belonged) at the Prodia Clinical Laboratory—Jakarta that had obtained the SNI certification ISO 15189:2012 as a medical laboratory with regard to quality requirements and competence. The data were checked to avoid inconsistency.

Statistical analysis

The SPSS version 25 was used for data processing. Descriptive analysis was presented as frequency for categorical data. Bivariate logistic regression analysis was used to find associations between the independent variables and the HRQoL. All the variables showing a significant association in a bivariate analysis at p < 0.25 were entered into a multivariate logistic regression model to determine risk factors associated with the HRQoL. p < 0.05 was considered statistically significant.





Results

Age and clinical characteristics

The number of subjects aged <60 years and ≥60 years is almost evenly matched, and the majority of the subjects were already in menopause (94.2%), had a low level of education (64.9%). A total of 24 (17.5%) subjects had a low Hb concentration (anemia); 82 (55.9%) subjects had a high TC, 119 (86.9%) subjects had a high LDL-C, and 11 (8%) subjects had a low HDL-C. The number of subjects with poor and good HRQoL is almost balanced, both for total HRQoL, HRQoL PCS, and MCS (Table 1).

Table 1: Distribution of subject based on socio-demographic factor, laboratory findings, and HRQoL (n = 137)

Variables	n (%)
Age (years)	11 (70)
- <60	70 (51.1)
- <00 - ≥60	70 (51.1)
	67 (48.9)
Menopause status	0 (5.0)
- Premenopause	8 (5.8)
- Postmenopause Education level	129 (94.2)
	00 (04.0)
- Low	89 (64.9)
- Moderate/High	48 (35.1)
Anemia status	
- No	113 (82.5)
- Yes	24 (17.5)
Total cholesterol	
- Normal	55 (40.1)
- High	82 (55.9)
LDL cholesterol	
- Normal	18 (13.1)
- High	119 (86.9)
HDL cholesterol	
- Normal	126 (92.0)
- Low	11 (8.0)
HRQoL (total)	
- Poor	69 (50.4)
- Good	68 (49.6)
HRQoL – Physical Component	
- Poor	67 (48.9)
- Good	70 (51.1)
HRQoL – Mental Component	
- Poor	68 (49.6)
- Good	69 (50.4)

HRQoL: Health-related quality of life, HDL: High-density lipoprotein, LDL: Low-density lipoprotein

Risk factors associated with HRQoL

Age and several risk factors associated with HRQoL were explored using bivariate logistic regression analysis and subsequent multivariate logistic regression analyses. In bivariate logistic regression analysis, age, menopausal education level, anemia, TC, and LDL cholesterol were found to have non-statistically significant association with HRQoL (Table 2). However, HDL cholesterol was significantly associated with HRQoL (odds ratio = 0.44; 95% Confidence interval [CI] = 0.20-0.97; p = 0.042) (Table 2). Normal HDL cholesterol level was found 0.44 times less likely to be associated with poor HRQoL.

Table 2: Bivariate logistic regression between risk factors and HRQoL in women 50-70 years of age

Risk factor	OR	95% CI	p
Age (years)			
• <60	1,37	0.70-2.76	0.349
• ≥60	1		
Menopausal status			
 Premenopause 	0.12	0.01-1.01	0.055
 Postmenopause 	1		
Education level			
• Low	0.51	0.25-1.04	0.065
 Moderate/High 	1		
Anemia status			
• No	0.65	0.26-1.59	0.350
Yes	1		
Total cholesterol			
 Normal 	0.96	0.48-1.91	0.917
High	1		
LDL-cholesterol			
 Normal 	0.78	0.29-2.19	0.637
High	1		
HDL-cholesterol			
Normal	0.44	0.20-0.97	0.042
• Low	1		

HRQoL: Health-related quality of life, OR: Odds ratio, CI: Confidence interval, HDL: High-density

lipoprotein, LDL: Low-density lipoprotein

In multivariate analysis, menopausal status and education level have not a statistically significant association with HRQoL (Table 3). Those normal level of HDL cholesterol was found 0.18 times less likely to be associated with poor HRQoL (Adjusted odds ratio = 0.18; 95% CI = 0.03-0.91; p = 0.038) (Table 3). It can be concluded that HDL-C levels were a risk factors. of HRQoL.

Discussion

In the present study, we found that the majority of subjects were in postmenopausal. However, menopausal status was not a risk factor of HRQoL. Moreover, this result was in-line with a population-based survey based on 1140 Greek middle-age women found no effect of menopause on the HRQOL [12]. Another study showed different results compared to our study, women experiencing menopause may have impaired HRQOL [13]. Menopause is also the stage of life that is marked by changes in the role of the menopausal woman, such as the cessation of child rearing and child care, or even the prospect of her being abandoned by the children. Although the biological impact of menopause (such as bone loss) is known with regard to its characteristics, the impact of menopause on the functioning and welfare of women (HRQoL) is still unclear [14], [15]. From the results of observations spanning a period of 5 years, Hess et al. [16] found that menopause had a negative impact on several subcomponents of HRQoL, apart from the symptoms of menopause; even the quality of life of the postmenopausal women did not improve after the symptoms of menopause had disappeared.



Table 3: Multiple logistic regression between risk factors and HRQoL in women 50-70 years of age

Risk factor	AOR	95% CI	р
Menopausal status			
 Premenopause 	0.15	0.01-1.39	0.091
 Postmenopause 	1		
Education level			
• Low	0.53	0.25-1.11	0.094
 Moderate/High 	1		
HDL cholesterol			
 Normal 	0.18	0.03-0.91	0.038
• Low	1		

AOR: Adjusted odds ratio, CI: confidence interval, HDL: High-density lipoprotein, LDL: Low-density lipoprotein

Subjects with anemia had a lower quality of life (HRQoL) as compared to subjects with normal Hb concentration (without anemia), but not statistically significant. The impact of anemia on HRQoL has been studied in patients from a number of different populations, and most studies found a relationship between HRQoL and anemia in elderly individuals, which on the subscale level was particularly associated with physical health. Various models of multivariate analysis have concluded that anemia is an independent risk factor of decreased HRQoL in the elderly group. In South Korea, data from the Korean National Health and Nutrition Examination Survey, that used the EQ-5D questionnaire, showed that the overall incidence of anemia in individuals aged 10 years and above was around 8.2% in 2005–2015 [17].

In this study, it was found that LDL-C was not a risk factor of HRQoL. Dyslipidemia, especially of LDL-C, has a causal relationship with atherosclerotic cardiovascular disease according to genetic, observational, and clinical outcome studies. A number of study results also showed that dyslipidemia impacts on quality of life (QoL), in that patients with dyslipidemia have a low HRQoL when compared with patients without dyslipidemia [4], [5]. In the multivariate logistic regression on HRQoL involving various risk factors of HRQoL (menopausal status, educational status, and HDL-C), it may be observed that the group of subjects with low HDL-C had a significantly lower quality of life in comparison with the group of subjects with normal HDL-C concentration. From the results of this study, it is also apparent that a low HDL-C concentration was a risk factor of HRQoL. The previous study results showed a still inconsistent relationship between HDL cholesterol concentration and quality of life. The Chinese Hypertension Intervention Efficacy randomized controlled trial conducted on a group of 13,542 men and women aged 50-79 years showed that decreased LDL-C concentration and increased HDL-C concentration were associated with increased HRQoL [14]. The inconsistent results found in a study involving subjects aged 100 years and over showed that HDL-C concentration was not significantly associated with quality of life [8]. Among the oldest elderly (100 years or over), it was found that increased lipid profile was not a risk factor for health and longevity, but in contrast became a protective factor, which differs from traditional reasoning about the impact of blood lipids on health [18], [19].

There is strong evidence for the relationship between high LDL-C concentration and cardiovascular events based on studies of clinical outcomes [20], [21], such that LDL-C constitutes the main target in the management of dyslipidemia. A number of epidemiological studies have also demonstrated that low plasma HDL-C concentration is a risk factor of cardiovascular disease. Similarly, several large-scale randomized clinical trials have proven that administration of HDL-C-increasing medications to patients with low HDL-C and high triglyceride concentrations may yield beneficial clinical effects. However, up to now the causal relationship between HDL-C concentration and cardiovascular disease cannot be explained. HDL-C may predict cardiovascular events even in patients on statin treatment, but clinical studies on the relationship between increased HDL-C concentration and cardiovascular protection are not convincing [8], [22]. HDL-C is at present used for estimating cardiovascular risk and is not a therapeutic target because the clinical studies are not convincing, even in high-risk patients with the LDL-C concentration meeting the therapeutic target. An HDL-C concentration of >40 mg/dL in males and >50 mg/dL in women only indicates a lower level of risk.

Limitation

This observational study with cross-sectional approach cannot prove a causal relationship between HDL-C concentration and HRQoL. Data collected through interview of study participants were subjected to recall bias, particularly in questions related to past events.

Conclusions and Recommendation

This study demonstrated that HDL-C concentrations were significantly a risk factor of HRQoL in women aged 50–70-years. The effect of lipid profile on health status needs to be considered and further verified in women aged 50–70 years. As a follow-up to this study, there is a need for conducting a study with a better design, such as a cohort study, that can determine a cause-and-effect relationship between HDL-C concentration and quality of life in women aged 50–70 years.

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1096