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The Correlation between Neutrophil-to-Lymphocyte Ratio with C-reactive Protein and D-dimer Level among Indonesian COVID-19 Cases

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Assessment of Cardiac Functions and Arrhythmia in Children with Beta-Thalassemia Major and Beta-Thalassemia Intermedia

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The Accuracies of Fine-Needle Aspiration Biopsy without Ultrasound Guidance versus Frozen-Section Examination of Thyroid Nodule Diagnosis in Teaching Hospital Universitas Sumatera Utara: Single-Center Experience

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The Superior Outcome of Collagen Nanosilver in Increasing Macrophage and Collagen on Deep Dermal Burn Wound Healing

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Chloroform Extract of *Plumbago zeylanica* Linn. Roots Ameliorates the Epidermal Thickness of Imiquimod-induced Psoriatic Mice through Cell Cycle and Apoptosis

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Systemic Corticosteroid Therapy for Stevens-Johnson Syndrome and Toxic Epidermal Necrolysis in Vietnam: Clinical Evaluation and Analysis of Serum Cytokines

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Tran Thi Huyen, Pham Thi Lan (Author)

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Comparative Characteristics of Metabolic Parameters in Patients with Psoriasis and Lichen Planus

Alla Bilovol, Svitlana Tkachenko, Oleksandra Havryliuk, Alla Berehehova, Nataliia Pustova, Nataliia Kolhanova, Yulia Drozd (Author)

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Abeer Attia Tawfik, Iman Mostafa, Mona Soliman, Mohamed Soliman, Noha Abdallah (Author)

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Correlation between Sebum Level and Follicular Fluorescence in Acne Vulgaris Patients

Fitri Meutia Donytasari, Nelva Karmila Jusuf, Imam Budi Putra (Author)

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Dermatological Emergency Cases in Geriatric Patients: A 3-year Multicenter Study of Three National Referral Hospitals in Indonesia

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Anis Irawan Anwar, Rizka Ramadhani Ruray, Anni Adriani, Khairuddin Djawad, Jonathan Kurnia Wijaya, Asvina Anis Anwar (Author)

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The Symptom Characteristics and the Efficacy of Combining Therapies in Inpatients with Atopic Dermatitis: A Study on Vietnamese Population

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Comparison of Leukocyte, Neutrophil, and Lymphocyte Levels in Child Patients that Experienced Breathlessness with COVID-19 and Non-COVID-19 (2020–2021) in Medan, Indonesia

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Serum Ferritin Levels for the Prediction of Mortality among COVID-19 Patients in an Indonesia's National Referral Hospital

Yoshie Anto Chicamy, Annisa Safitri, Ricvan Dana Nindrea (Author)

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Molecular Docking Analysis from Bryophyllum pinnatum Compound as A COVID-19 Cytokine Storm Therapy

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Current Sites of Infections and Types of Microorganisms in Patient with Febrile Neutropenia in Hematological Wards – Single Center Study

Alaadin Naji, Saman SarKo, Sama Atta (Author)

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Assessment of Awareness, Knowledge and Willingness to Care for COVID-19 Patients by Primary Care Providers in a Southern Nigerian City: A Cross-sectional Study

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Correlation of Biomarkers in Severe COVID-19 Patients Cross-sectional Study

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Clinical Characteristics and Antibiotics Sensitivity of Culture Positive Typhoid Fever Patients in Baghdad Teaching Hospital - A Single Center Study

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Association of Soil-Transmitted Helminths Infection with Total Serum Immunoglobulin E Levels and Total Eosinophils in Elementary School Students in Medan

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Balanced Nutritional Knowledge Profile and Stress Factors for Karawang Health Science Students during Pandemic

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Do the Nurse Practice the Five Moments for Hand Hygiene? An Observational Study during Pandemic COVID-19

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Interleukin-6 and C-reactive Protein on Admission as Predictor of Mortality in Severe COVID-19 Patients: A Retrospective Cohort Study

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Development of a COVID-19 University-Based Clinic in Indonesia: A Pilot Project of The Gadjah Mada Electronic Nose Center

Anggi Lukman Wicaksana, Nurul Dyah Kusumawati, Ella Permatasari Wibowo, Hera Nirwati (Author)

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SARS-CoV-2 Gene Expression as a Prognosis Predictor for COVID-19

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Lelly Yuniarti, Heru Haerudin , Yani Triyani (Author); Herry Garna ; Gibran Bramasta Dirgavarisya, Dika Rifky Fernanda, Adila Putri Ramandhita, Huriyazzahra Karima, Neng Resa, Maya Tejasari (Author)

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The Epidemiological Situation and Clinical Characteristic Aspect Cause by COVID-19 in Suspected Cases in Albania

Oltiana Petri, Erjona Abazaj, Albana Daka, Gentian Huti, Edmond Puca, Blerta Brati (Author)

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SARS-CoV-2 Reverse Transcription-Polymerase Chain Reaction Positivity and Seroprevalence among Health Care Workers in a Referral Cancer Institute: A Cross-sectional Study

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Clinical Efficacy of Early Administration of Convalescent Plasma among COVID-19 Cases in Egypt

Noha Asem, Hossam Hosny Massoud, Ihab Serag, Mohamed Hassany, Gehan ElAssal, Akram Abdelbary, Marwa Mohsen, Amin Abdel Baki, Samy Zaky, Wagdy Amin, Ehab Kamal, Hamdy Ibrahim, Ahmed Said Abdel Mohsen, Mohamed Ibrahim, Mohamed Ahmed Ali, Nancy Elgendy, Mohamed Elbadry, Salwa Hassan, Naguib Naguib Nassif Shenouda, Mohamed Abdelhamed Fathy, Hala Zaid (Author)

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The Difference Coagulopathy Factor and Interleukin-6 between Survival and Non-survival Patients COVID-19

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Self-Screening as an Effort to Prevent the Risk of Exposure to COVID-19 in Pregnant Women

Raden Khairiyatul Afyah, Farida Umamah, Ratna Yunita Sari, Siti Nur Hasina, Sulistyorini Sulistyorini, Budi Prasetyo, Supatmi Supatmi (Author)

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The Correlation of CD4+ T-Lymphocyte Count and Chemokine Ligand 13 Levels in Human Immunodeficiency Virus Patients Receiving Anti-retrovirus Therapy in Sanglah Central General Hospital

Komang Juwita Endrawati, Ni Kadek Mulyantari, Sianny Herawati, Anak Agung Wiradewi Lestari, I Nyoman Wande, Ida ayu Putri Wirawati (Author)

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Coagulation Profile and Outcomes of COVID-19 Patients at Wahidin Sudirohusodo Hospital, Makassar, Indonesia

Soraya Wildhani Jamil, Muhammad Ilyas, Nur Ahmad, Syakib Bakri, Tutik Hardjianti, Muhammad Lutfi Parewangi, Arifin Seweng (Author)

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Gynecology and Obstetrics

Determinant Factors for High-Risk Pregnancy among Minangkabau Ethnicity in Indonesia

Dewi Arita, Yusrawati Yusrawati, Husna Yetti, Rika Susanti (Author)

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Alternatives of Risk Prediction Models for Preeclampsia in a Low Middle-Income Setting

Raden Aditya Kusuma, Detty Siti Nurdiati, Siswanto Agus Wilopo (Author)

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Serum HIF-1 α Levels, miR-210 Expressions, and Reactive Oxygen Species Levels in Early Abortion and Normal Pregnancy

Joserizal Serudji, Nuzulia Irawati, Johannes Cornelius Mose, Hirowati Ali, Yusrawati Yusrawati (Author)

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Determinant Factors of Neonatal Mortality in Preeclampsia Mother

Hirfa Turrahmi, Hadyana Sukandar, Hadi Susiarno, Rudi Supriyadi, Fatimah Fatimah (Author)

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Effect of Yoga on Dysmenorrhea in 6th Grade Elementary School Students at Rusunawa Health Center: A Quasi-Experimental Study

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Overall Survival and Related Factors of Advanced-stage Epithelial Ovarian Cancer Patients Underwent Debulking Surgery in Jakarta, Indonesia: A Single-center Experience

Hariyono Winarto, Adithya Welladatika, Muhammad Habiburrahman, Gatot Purwoto, Fitriyadi Kusuma, Tofan Widya Utami, Andi Darma Putra, Tricia Anggraeni, Kartiwa Hadi Nuryanto (Author)

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The Effect and Activity of Free Radical Enzymes Due to Arsenic Exposure Through the Vulva and Vagina

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Nine Maternal Mortalities in 2 Weeks of Second COVID-19 Surge in Indonesia: A Case Series from One Large Tertiary Center

Manggala Pasca Wardhana, Shabrina Avi Wulandari, Salsabila Nabilah Rifdah, Ifan Ali Wafa, Agus Sulistyono, Aditiawarman Aditiawarman, Hermanto Tri Joewono, Erry Gumilar (Author)

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The Rate of Asymptomatic Plasmodium Parasitemia and Placental Parasitization in Urban and Rural Areas of Cross River State, Nigeria

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Correlation of Fetal Growth Between Last Menstrual Period and third Trimester Ultrasound Pregnancy on Ethnic Minangkabau

Yusrawati Yusrawati, Joserizal Serudji, Bobby Indra Utama, Puspita Sari (Author)

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Foot Hydrotherapy: Non-pharmacology Treatment for Reducing Anxiety in Third Trimester Pregnancy

Jumrah Sudirman, Nurjannah Bachri, Muhammad Syafar, Elizabet Catherine Jusuf, Saidah Syamsuddin, Nasrudin Andi Mappaware, Hasriani Saleng (Author)

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Characteristics Patients with Borderline Ovarian Tumor at Sanglah General Hospital: From Pre- to Post-operative Approach

Nyoman Gede Budiana, Polo Ishak Kurniawan (Author)

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Early Serum Progesterone Measurement on 9th Day after Oocyte Retrieval can be used as a Predictor of Fresh Intracytoplasmic Sperm Injection Cycle Success

Shereen Abdulhussien Kzar, Zainab Khafajy, Shatha Sadiq Al-Marayaty (Author)

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Selenium Levels based on Various Menopause Complaints Assessed by Menopause-specific Quality of Life Questionnaire before and after Selenium Intervention

Muhammad Ramadhan Hisworo, Muhammad Fidel Ganis Siregar, Hotma Partogi Pasaribu, Johny Marpaung, Muhammad Rusda, Sarah Dina, Edy Ardiansyah (Author)

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Relationship between Serum Soluble Suppression of Tumorigenicity (ST) 2 and Global Longitudinal Strain in Pre-eclampsia at Delivery and 1 Year After

Mohammad Rizki Akbar, Muhammadnur Rachim Enoch, Rien Afrianti, Prameswari Hawani Sasmaya, Achmad Fitrah Khalid, Dewi Anggraeni, Michael Aditya Lesmana (Author)

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Antioxidant and Anti-inflammatory Activity of γ -Oryzanol Compared to Rice Bran Oil to Repair Ovarian Histological Structure from One Push Transfluthrin Exposure Effect

Lilis Lisnawati, Sri Poeranto, Agustina Tri Endharti, Moch. Istiadjid Edi Santoso (Author)

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Risk Factors That Correlate with Resistance to First-Line Chemotherapy on High-risk Gestational Trophoblastic Neoplasia

Andi Kurniadi, Zulvayanti Zulvayanti, Dodi Suardi, Kemala Mantilidewi, Bayu Indrayana Irsyad, Arnova Reswari, Benny Hasan Purwara, Gatot Nyarumenteng Adhipurnawan Winarno (Author)

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Geospatial Analysis of Cervical Cancer Distribution in South Sulawesi Province

Andi Alfian Zainuddin, Amran Rahim, Muh. Firdaus Kasim, Sri Ramadany Karim, Rina Masadah, Syahrul Rauf (Author)

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Effect of Soy Isoflavones Compared to Estradiol Valerate in Menopausal Women assessed by Menopause Quality of Life Questionnaire

Willy Kurnia Almon, Muhammad Fidel Ganis Siregar, M. Rhiza Z. Tala, Makmur Sitepu, Ichwanul Adenin, Muara Panusunan Lubis (Author)

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Clinical Overview in Pregnancy with COVID-19 at prof. Dr. I.G.N.G. Ngoerah Hospital Period of April 2020-March 2021

Anak Agung Ngurah Jaya Kusuma, I Gede Mega Putra, Anom Suardika, Alisza Novrita Sari (Author)

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Interleukin-1 β , 27 Level in Stimulated and Non-stimulated PCOS Infertile Women (Cross-Sectional Study)

Manal Taha Al-Obaidi, Enas Thamer, Qais Ahmed Ibraheem (Author)

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Increasing the Prediction Power of Preterm Labor using Interleukin 6 and Fetal Fibronectin as Alarming Signals in Symptomatic Patients

Amal Abdul Muhsen Hussain, Yasamin Hamza Sharif (Author)

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Correlation between Vitamin D and Uric Acid in Menopausal Women

Arvitamurianny Lubis, Muhammad Fidel Ganis Siregar, Mohammad Iman Syahputra (Author)

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Comparison Levels of Copper, Zinc, and Cu/Zn Ratio of in Pre-eclampsia and Normal Pregnancy

Siti Salima, Katharina Hiria Daundy, Johannes C. Mose, Akhmad Yogi Pramatirta, Dodi Suardi, Dini Pusianawati (Author)

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Knowledge about Anemia in Pregnancy among Females Attending Primary Health Care Centers in Baghdad

Zahraa Al-Sattam, Samia Hassan, Bushra Majeed, Zaid Al-Attar (Author)

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Comparison of Serum Vitamin D Level between Normal Pregnancy and Abortion in Outpatient Settings

Leo Simanjuntak, Benhard Christopher Simanjuntak, Sarma Nursani Lumbanraja (Author)

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Restructuring of Gynecology-Obstetric Services Provision Based on Diagnosis-Related Groups Model

Marija Seistrajkova, Neda Milevska Kostova, Stjepan Oreskovic (Author)

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Serum Level of Ligand Programmed Death-1 in Endometriosis

Lyudmila Akhmaltdinova, Leila Appazova, Yasminur Turdybekova, Irina Kopobayeva, Zhanna Amirbekova, Igor Marinkin (Author)

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Vascular Malperfusion – As a Morphological Pattern of Preeclampsia

L. M. Stabayeva, I. Mukhammad, Maida Tussupbekova, Olga Kostyleva, Raihan Nygyzbaeva, G. N. Imanbayeva, Yasminur Turdybekova, Aynura Zhumakayeva, Dinar Kalieva, Yevgeniy Kotov, Aigul Mergentay, Ainur Meldebekova (Author)

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Hematological Changes and Pregnancy Outcome in COVID-19 Pregnant Patients: A Case-Control Study

Enas Thamer, Sara Al-Rawaf (Author)

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Relationship between Demographic Factors, Knowledge, and Injection Contraceptive Acceptors' Visit Compliance

Muhammad Anas, Khofifah Dwi Oktaviana, Era Catur Prasetya, Afriza Umami (Author)

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Relapsing Vulvovaginal Candidiasis: Treatment with Oxygen Therapy and Hyaluronic Acid

Beniamino Palmieri, Leone Condemi, Elena Bertozzi, Flavio Garoia, Maria Vadalà (Author)

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Differences in Hemoglobin Levels in Pregnant Women through Multi-Micronutrient Supplements and Iron Tablets

Jamaludin Sakung, Dewi Tosae, Gunarmi Gunarmi, Andi Imam Arundhana (Author)

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Anti-mullerian Hormone Serum Level as a Predictor of Responsiveness to Clomiphene Citrate Therapy in Iraqi Women with PCOS

Dhai Rashid, Raghda Bardan (Author)

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The Effect of Melatonin and Cisplatin Combination Using Copper-Transporting ATPase-1, P-Glycoprotein, and Gamma-Glutamylcysteinylglycine on Ovarian Cancer Biological Cell SKOV3

Cut Adeya Adella, M. Fidel Ganis Siregar, Imam Budi Putra, Poppy Anjelisa Hasibuan, Andrijono Andrijono, Adang Bachtiar, Sarma N. Lumbanraja, Iqbal Pahlevi Nasution (Author)

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The Effect of Zinc Administration in Short Adolescent Mothers who Breastfeed on Zinc Level, Insulin-1 Growth Factors, and Infant Growth

Armiyati Nur, Nurpudji Astuti Taslim, Sitti Maisuri T. Chalid, Aidah Juliaty, Halisah Halisah, Nasrudin A. Mappaware, Mardiana Ahmad, Firdaus Hamid, Ema Alasyri, Aminuddin Aminuddin, Kiki Uniatri Thalib (Author)

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Correlation of Fibroblast Activation Protein Expression and Incidence of Epithelial Ovarian Cancer Recurrence

Effinia Kamila Hanum Siregar, Riza Rivany, Muhammad Rusda Harahap, Iman Helmi Effendi, Dudy Aldiansyah, Roy Yustin Simanjuntak, Edy Ardiansyah (Author)

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Placental Growth Factor-soluble FMS-like Tyrosine Kinase-1 Ratio in Placenta Accreta Spectrum Disorder: Case Control Study

Sarma Lumbanraja, M. Rizki Yaznil, Andre M. Siahaan, Berry E. P. Bancin, Dizalia Ananda (Author)

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Induction of Ovulation using Low-Level Laser Biostimulation

Ehab M. Al Sherbiney, Mona E. Morsy, Mahmoud B. El-Begawy, Mohamed A. El-Noury (Author)

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A New Approach of Several Minimally Invasive Procedures for Improvement of the Outcome in Preterm Infants

Petya Radulova, Stanislava Hitrova-Nikolova, Liliya Vakrilova, Violeta Dimitrova (Author)

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Risk Factors and Clinical Outcomes of Neonatal Sepsis in Manado Tertiary Referral Hospital: A Single-center Study

Rocky Wilar, Hesti Lestari (Author)

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Evaluation of IGF-1, TNF- α , and TGF- β Gene Expression after Oral Vitamin D Supplementation in School-Aged Children with Chronic Bronchial Asthma

Abeer Ramadan, Sara Sallam, Rasha Yousef, Mai Elsheikh, Asmaa Ali, Yasmine Elhusseny, Sally Ishak (Author)

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The Higher C-Reactive Protein Levels as a Risk Factor of Stunting in Children with Acyanotic Congenital Heart Disease

Niluh Putu Wida Pangestika, I Gusti Ngurah Sanjaya Putra, I Gusti Lanang Sidiartha, I Gusti Ayu Trisna Windiani, Eka Gunawijaya, Dewi Sutriani Mahalini, Made Sukmawati (Author)

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The Association between Kidney Function and the Severity of COVID-19 in Children

Dedi Rachmadi, Ahmedz Widiasta, Hadyana Sukandar, Nanan Sekarwana, Dany Hilmanto (Author)

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B-type Natriuretic Peptide: A Diagnostic Biomarker for a Hemodynamically Significant PDA

Hanan Zekri, Reem N. Said, Ranya A. Hegazy, Rania K. Darwish, Abdelkarim Kamel, Nahla Gamaleldin Abd El Hakim (Author)

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Impact of Emotional Expression of Parents on their Children who have Specific Learning Disorders and the Role of Parental Educational Counseling Program

Ola Al-Safory, Hoda Abdo Hussein, Maha Abdul Rahman Mowafy, Mai Daa Sarhan (Author)

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Community Support System-Based Health care for Children as Violence Victims during Pandemic

Bambang Sukoco, Muchamad Iksan, Dewi Eko Wati, Moh Indra Bangsawan, Dewi Kusuma Diarti, Arief Budiono (Author)

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Obesity and Mitochondrial Function in Children: A case-control study

Muhammad A. Al-Kataan, Mazin Mahmoud Fawzi (Author)

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A Cross-sectional Study of Iron Deficiency Anemia and Hemoglobinopathy Carriers among School Children in Two Different Cities in KSA

Mahmoud M. Zahran, Anas M. Elshreif, Ehab Abou-Eladab, Ashraf Abdelkader Altawel (Author)

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Gut-brain Axis: Impact of Intestinal Inflammation and Micronutrient Deficiency on Psychomotor Development and Cognitive Functions in Egyptian Children with Undernutrition

Maged A. El Wakeel , Ghada El-Kassas , Eman Elsheikh, Alshaimaa Adel ElKhatib, Shaimaa Hashem, Salwa Refat Elzayat, Hiba Sibaii, Nevein Fadl, Thanaa Rabah (Author)

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Determinant Factors of the Quality of Life in Children with Osteogenesis Imperfecta during the COVID-19 Pandemic

Nur Rochmah, Rahma Ira Mustikasari, Muhammad Faizi, Irwanto Irwanto (Author)

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Relationship between Febrile Seizures and Iron Deficiency Anemia in Children

Roua Hameed Kadhem, Ali Kadhem Tarish (Author)

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Button Batteries and High-Powered Neodymium Magnet Ingestion in Children

Yasser Rashed, Khalid Khalfan (Author)

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The Given of Fermented Drink Fortified with Fe-Zn (INTAKE) for Under-5-Year-Old Children as Integration of Research Products and Stunting Prevention Program: An Action Research

Siti Helmyati, Setyo Utami Wisnusanti, Maria Wigati, Lintang Aryanti, Suseno Suseno, Bambang Suwignyo (Author)

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Acute Otitis Media-Associated Diarrhea in Children Less than 2 Years Old

Rihab F. Alabedi, Ali H. Aljebouri, Zainab W. Al-Maarroof (Author)

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A Pilot Study of Nutrition Management in the Department of Pediatric Oncology Department of a Hospital in Kazakhstan

Zhandulla Nakipov, Anar Tursynbekova, Gaukhar Dauletova, Akmaral Mussakhanova, Gulzhan Dossybayeva, Zakira Kerimbayeva, Gaukhar Saurbayeva, Aigul Kaliyeva, Assiya Turgambayeva, Mei Yen Talamona Chan (Author)

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Serum Chemerin and Apelin Levels in Obese Children: Relation to Endothelial Function and Inflammation from a Cross-sectional Case–Control Study

Moushira E. Zaki, Howida ElGebaly, Mona Hassan, Salwa R. Elbatrawy, Walaa Yousef, Ahmed S. Ismail, Hanaa Hamdy Ahmed (Author)

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Predictors of Exclusive Breast Milk Failure Before Six Months: A Study on Exclusive Breastfeeding in the City of Bogor, West Java, Indonesia

Sri Wahyuni, Ni Gusti Made Ayu Agung Budi, Gurid Pramintarto Eko Mulyo, Sri Mulyati, Fauzia Fauzia (Author)

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Prevalence of Recurrent Hospital Admission in Children with Recurrent Wheezing in Babylon Province

Sura Falah, Saad Fawwaz Mukhlif, Abeer Degan (Author)

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Differences in Heart Rate, Left Ventricular Wall Mass and Thickness, Diastolic Function, and Cardiac Output Index between Adolescent Athlete and Non-athlete Adolescents

Ni Putu Veny Kartika Yantie, Ida Ayu Putu Purnamawati, Dyah Kanya Wati, Ketut Ariawati, Gusti Ngurah Sanjaya Putra, Wayan Gustawan, Eka Gunawijaya (Author)

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Ethiopathogenetic Orientation in the Diagnosis and Treatment of Chronic Tonsillopharyngitis in Pregnant Women

Stanova Sayazhan Kenesovna, Lokshin Vyacheslav Notanovich, Zhaysakova Dyamely Edgeevna, Savitcheva Alevtina Mikhailovna, Medeulova Aigul Rakhmanovna, Batyrbaeva Dinara Zharmukhanovna, Kulanchiyeva Zhanna Arapbaevna (Author)

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Urinary Phthalate Levels in Relation to Obesity among a Sample of Egyptian Children

Manal A. Mohsen, Mai M. Youssef, Ebtissam M. Salah El-Din, Samar M. E. Salem, Hala Mohamed Salah El Din Megahed, Mones M. AbuShady, Dalia Medhat, Amr S. Gouda, Walaa Nazim, Manal A. Shehata (Author)

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Comparison of Bone Marrow Aspiration Interpretation with Immunophenotyping in Children's Leukemia Diagnosis

Nadirah Rasyid Ridha, Dasril Daud (Author)

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The Impact of Emotional Expressions of Parents on their Children with Specific Learning Disorders: The Role of Parental Educational Counseling Program

Ola Aly Al-Safory, Hoda Abdo Hussein, Maha Abdul Rahman Mowafy, Mai Diao Sarhan (Author)

589-598

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Glycemic Abnormalities Assessment on Children and Adolescents with Beta-Thalassemia Major

Siska Mayasari Lubis, Bidasari Lubis, Nadhira Anindita Ralena (Author)

697-701

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Malnutrition as Risk Factor for Febrile Neutropenia in Children with Acute Lymphoblastic Leukemia

Hanzelina Hanzelina, A. A. N. K. P. Widnyana, I Gusti Ayu Trisna Windiani, I Putu Gede Karyana, Ni Ketut Ariawati, Dewi Sutriani Mahalini (Author)

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Association of Hair Zinc Level with Cognitive and Language Delays in Children Aged 9-24 Months Old

Ayu Diah Perdana Paramita, I G. A. N. Sugitha Adnyana, Ida Bagus Subanada, I Gusti Ngurah Made Suwarba, Eka Gunawijaya, Dyah Kanya Wati (Author)

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Correlation between Interleukin-6 and Ferritin Serum in Pediatric Sepsis Patients

Ida Ayu Agung Wijayanti, I Wayan Gustawan, I Putu Gede Karyana, I Gusti Lanang Sidiartha, Eka Gunawijaya, Dewi Sutriani Mahalini, AANKP Widnyana (Author)

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Biochemical and Anthropometric Nutritional Assessment in Children Infected with COVID-19: A Cross-sectional Study

Hoda Atef Abdelsattar Ibrahim, Eatematd Helmy, Aya Amin, Dina Mahmoud (Author)

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Impact of Maternal and Neonatal Vitamin D Status on the Development of Congenital Anomalies in Egyptian Model

Suzan Abd Razik Mohamed, Mohamed N. El Barbary, Wafaa Osman Ahmed, Sahar S. Abd El Maksoud, Zakaria H. Ibrahim, Heba E. Hashem, Ahmad A. Obaid, Mohamed Khalifa, Dalia Selim (Author)

457-463



Leptin Level in Obese Children with Vitamin D Deficiency

Aidah Juliaty, Sri Hardiyanti Putri, Idham Jaya Ganda (Author)

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Assessment of Cystatin-C level in Newly Diagnosed Iraqi Children with Nephritic Syndrome

Noor Tahir, Rasha Kareem Hashim, Alyaa Bohan, Luay Mahmood (Author)

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Fecal Calprotectin in Children Can Differentiate Between Different Gastrointestinal Diseases

Yasser Rashed (Author)

773-778



Comparison of Albendazole and Mebendazole on Soil-Transmitted Helminth Infections among School-Aged Children

Nirmalia Husin, Ayodhia Pitaloka Pasaribu, Muhammad Ali, Erwin Suteno, Erwin Suteno, Wilhans Wijaya, Syahril Pasaribu (Author)

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Evaluation of the Implementation of Integrated Management of Childhood Illness in Special Region of Yogyakarta Province, Indonesia

Fitri Haryanti, Ida Safitri Laksanawati, Eggi Arguni, Suci Ardini Widyaningsih, Nurulita Alma Ainun, Nisa Rastiwi (Author)

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Parental Sociodemographic Factors Associated with Stunted Children below 5 Years of Age in Kampar Indonesia

Riza Yefri, Nur Indrawaty Lipoeto, Andani Eka Putra, Muzal Kadim (Author)

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Prevalence of Iron-Deficiency Anemia in Infants Living in Rural Areas and the Factors that Influence it in the Pandemic COVID-19 Era

Harapan Parlindungan Ringoringo, Imanuella Yessy Natalia, Roselina Panghiyangani, Edi Hartoyo, Rahmiati Lao (Author)

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Toxicology

Association of Phthalate Exposure with Endometriosis and Idiopathic Infertility in Egyptian Women

Nevein A. EL-Desouky, Mona Elyamany, Amany Fahmy Hanon, Adel Atef, Marwa Issak , Sarah Hamed N. Taha, Riham F. Hussein (Author)

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Coal Dust Exposures Change the Spiral Artery Remodeling and Natural Killer Cells Counts in the Uterus of Pregnant Rats

Siti Wasilah, Djoko W. Soeatmadji, Teguh Wahyu Sardjono, Nia Kania, Meitria S. Noor (Author)

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The Possible Association between Phthalates and Bisphenol A Exposure and Idiopathic Precocious Puberty in Egyptian Girls

Rania Mohsen, Eman El-Zohairy, Mona Mamdouh Hassan, Mokhtar Fathy, Mai Magdy, Shimaa Atef, Marwa Issak, Sarah Hamed N. Taha (Author)

1411-1418

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Complex Profile of Altered Heavy Metals Accumulation in Multiple Sclerosis, a Relationship with Copper and Zinc Homeostasis

Samar Ramadan Mohamed, Hend A. Fadl, Islam Tork, Tarek Omar, Usama El-Barrany, Ahmed Elshatory (Author)

1509-1516



Surgery

Transanal Total Mesorectal Excision for Malignant Rectal Lesion: A Prospective Cohort Study

Mohamed Yehia Elbarmelgi, Haitham Basiouny, Ahmed Khalifa (Author)

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Primary Closure or Delayed Primary Closure? Assessment of Optimum Management of Surgical Wounds for Perforated Appendicitis

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Resectable Gastric Adenocarcinoma Cancer and the Role of Early Feeding on Clinical Outcome

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Gastrointestinal Cancer and Vaccination Safety during COVID-19 Pandemic

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Serum GFAP and EGFR as Supportive Diagnostic Biomarker of Glioma Patients: A Single-Center Study

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Demographic Characteristics and Causes of Visual Impairment in the White Nile State of Sudan: A Hospital-based Study

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Evaluating the Psychological Impacts of Patching Treatment on Parents in Qassim Region, Saudi Arabia

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Femtosecond Small Incision Lenticular Extraction in comparison to Femtosecond Laser In situ Keratomileusis Regarding Dry Eye Disease

Najah Kadhum Mohammad, Suzan Rattan, Ahmed Shaker Ali Al Wassiti, Zaid Al-Attar (Author)

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Correlation Near Point of Convergence and Amplitude Accommodation with School Myopia Progression at Near Activity in Badung Regency

Made Paramita Wijayati, Anak Agung Mas Putrawati Triningrat, Cok Dewiyani Pemayun, Ariesanti Tri Handayani, Ni Made Ari Suryathi, Ni Made Ayu Surasmiati (Author)

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Ear, Nose and Throat

The Analysis of Presbycusis Type and Lesion Location Based on Audiogram Description, Speech Audiometry, and Otoacoustic Emission

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Intracranial Hemorrhage Prediction for Traumatic Brain Injury Using Glasgow Comma Scale: Encountering the Absence of CT Scan

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Ilirian Laçi, Alketa Spahiu, Artan Bodeci, Aldo Shpuza (Author)

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A Multimodal Analgesic Protocol with Gabapentin-dexmedetomidine for Post-operative Pain Management after Modified Radical Mastectomy Surgery: A Randomized Placebo-Controlled Study

Nasr Mahmoud Abdallah, Ahmed Hussain Bakeer (Author)

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Comparative Study between Ultrasound-Guided Quadratus Lumborum Block Type 2 Versus Lumbar Epidural Analgesia as a Perioperative Analgesic Technique for Pelvic Cancer Surgeries

Mohammad Elwakil, John Tharwat, Dina Abbas, Mohammad Elwaseef, Sameeh Elgendy (Author)

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Effect of Crystalloid or Colloid Fluid Loading and Vasopressor Pre-Treatment on the Timing of Hypotension in Cesarean Section with Subarachnoid Block

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The Effect of Remifentanyl, MgSO₄, or Remifentanyl-MgSO₄ as Neuroprotectors on BDNF, MAC, and Caspase-3 Levels in Wistar Rats with Traumatic Brain Injury

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Continuous Unilateral Erector Spinae Plane Block versus Intravenous Analgesia in Minimally Invasive Cardiac Surgery: A Randomized Controlled Trial

Duong Thi Hoan, Duong Duc Hung, Pham Quoc Dat, Nguyen Huu Tu (Author)

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Regional Anesthesia Conversion to General Anesthesia during Cesarean Section of a Woman with Antepartum Hemorrhage due to Placenta Previa and Ovarian Cyst with Moderate Confirmed COVID-19: A

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Perioperative Analgesic Efficiency of Ultrasound-Guided Quadratus Lumborum Block versus Epidural Analgesia in Bladder Cancer Patients Undergoing Radical Cystectomy

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Correlation between the Degree of Glycocalyx Damage and the Incidence of Acute Kidney Injury in Sepsis Patients in the Intensive Care Unit: A Review of Syndecan-1 and sICAM-1

Haizah Nurdin, Syafri Kamsul Arif, A. Husni Tanra, Muh. Ramli Ahmad, Made Wiryana, Muh. Nasrum Massi, Haerani Rasyid, Agussalim Bukhari (Author)

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Bacterial Patterns and Sensitivity to Antibiotics in Patients Treated with Ventilators at the Intensive Care Unit of Sanglah Hospital Denpasar, Bali, Indonesia

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Erector Spinae Plane Block as an Alternative Analgesic Technique in Patients Scheduled for Open Renal Surgery: A Randomized Controlled Study

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Prediction of Outcome in Anemic Critically ill Patients in Intensive Care Unit: A Retrospective Observational Study

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Bastian Lubis, Putri Amelia, Vincent Viandy (Author)

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N-Terminal B Natriuretic Peptide as a Prognostic Marker in Sepsis Induced Myocardial Dysfunction

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Role of Stress-induced Diastolic Dysfunction in Weaning Failure from Mechanical Ventilation

Mostafa Rafea, Karim Mashhour, Mohamed Fawzy, Hanan Zaghla, Sherin El-Gengihi (Author)

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Prevalence of Electrocardiographic Changes in Patients with Traumatic Brain Injury: A Prospective Hospital-based Study

Mohamed Hamila, Khaled Hussein, Mohamed Fatehy Ismail, Ahmed Kamal (Author)

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Correlation between Multidrug Resistance Infection with Clinical Outcomes of Critically ill Patients with COVID-19 Admitted to an Intensive Care at RSUP Dr. M. Djamil in Indonesia

Dedy Kurnia (Author)

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Correlation of Matrix Metalloproteinase-9 and Tissue Inhibitor Matrix Metalloproteinase-1 on Lactate Concentration in Sepsis patients Admitted to Intensive Care Unit

Bastian Lubis, Putri Amelia, Vincent Viandy (Author)

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The Role of Perioperative Levosimendan in Patients with Reduced Ejection Fraction undergoing Cardiac surgery in Reducing Post-operative Hemodynamic Support

Mohamed Fakher, Mohamed Aboelghet, Ayman Moharam, Mahmoud Khaled, Ahmed Abdelaziz (Author)

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Thiamine Level in Out-of-hospital Cardiac Arrest Patients

Marturod Buranasakda, Ratrawee Pattanarattanamolee (Author)

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Correlation of Coagulation Parameters with Clinical Outcome of Critically Ill Patients with COVID-19 Admitted to an Intensive Care at Rsup Dr. M. Djamil in Indonesia

Dedy Kurnia, Eti Yerizel, Andani Ekaputra, Dwitya Elvira (Author)

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Contributing Factors to Increased Left Ventricular End-Diastolic Volume in COVID-19 ICU Patients in Sanglah Hospital: A Study on Galectin-3

Marilaeta Cindryani Lolobali, I. M. G. Widnyana, Ni Made Ayu Wulansari, Ida Bagus Rangga Wibhuti, Made Wiryana, Rudyanto Sedono, Aldy Heriwardito (Author)

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Diagnostic Accuracy of Lung Ultrasound in Patients with Community-Acquired Pneumonia: A Single Center Observational Study

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January 1, 2023

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mspiroski@yahoo.com

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sstoleski@yahoo.com

ORCID iD: <https://orcid.org/0000-0003-1278-903X>

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Slavica Hristomanova-Mitkovska, MD, MSc. Institute of Human Genetics, University Medical Center Göttingen, Heinrich-Düker-Weg 12, 37079 Göttingen, Germany

cacka_h@yahoo.com

[ORCID iD: https://orcid.org/0000-0002-7770-5055](https://orcid.org/0000-0002-7770-5055)

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Igor Spiroski, MD. University Clinic of Cardiology, Faculty of Medicine, Ss Cyril and Methodius University of Skopje, Skopje, Republic of Macedonia

ispiroski@gmail.com

[ORCID iD: https://orcid.org/0000-0002-3448-0685](https://orcid.org/0000-0002-3448-0685)

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ksenijabogoeva@gmail.com

Sinisha Stojanovski, MD, PhD. Medical Faculty, Saints Cyril and Methodius University in Skopje, Skopje, Republic of Macedonia

sinisa.stojanoski@hotmail.com

[ORCID iD: https://orcid.org/0000-0002-4967-2102](https://orcid.org/0000-0002-4967-2102)

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dr.koneski@gmail.com

[ORCID iD: https://orcid.org/0000-0003-2412-7594](https://orcid.org/0000-0003-2412-7594)

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Aleksandar Iliev, Doctor of Dental Medicine, PhD. Department of Maxillofacial Surgery, Faculty of Dentistry, The Saints Cyril and Methodius University of Skopje, Skopje, Republic of Macedonia

aleksandar.iliev@gmail.com

[ORCID iD: https://orcid.org/0000-0001-5348-9143](https://orcid.org/0000-0001-5348-9143)

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Layout Editor and Electronic Publishing

Ivo Spiroski, Eng, MSc. Scientific Foundation SPIROSKI, Rajko Zhinzifov No 48, 1000 Skopje, Republic of Macedonia

ivospiroski@gmail.com

ORCID iD: <https://orcid.org/0000-0003-4518-2138>

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
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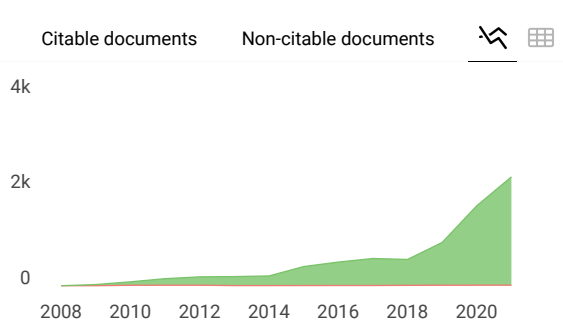
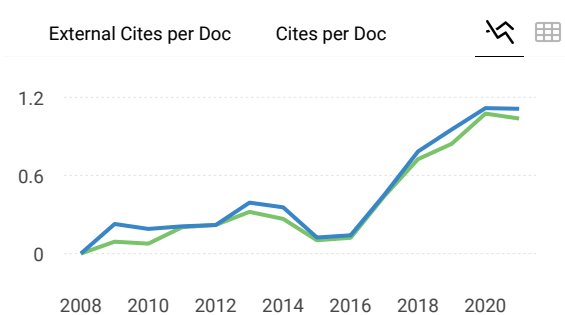
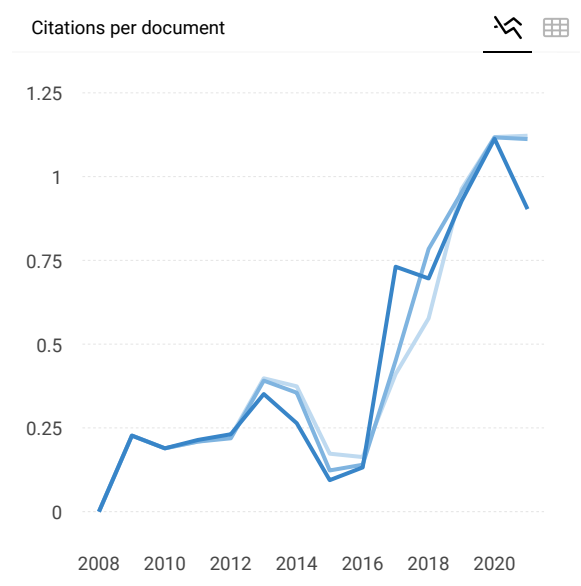
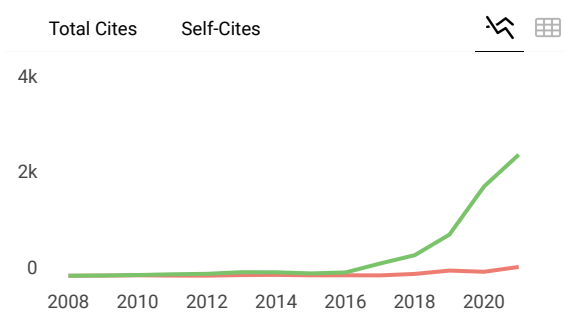
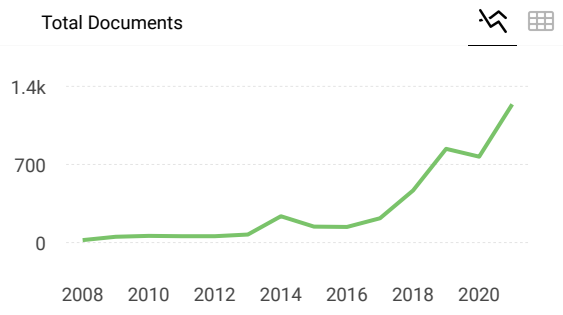
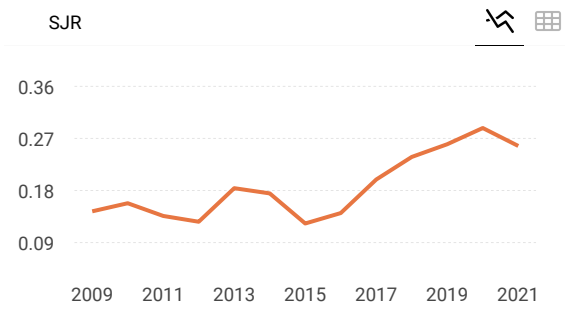
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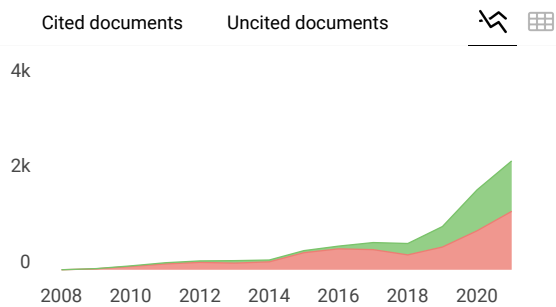
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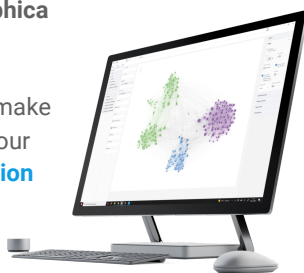
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N nathaniel 4 months ago

Thanks for the information you shared I appreciate your efforts and taking the time and sharing this content.

reply

SCImago Team



Melanie Ortiz 4 months ago

Dear Nathaniel, welcome and thanks for your participation! Best Regards, SCImago Team

A Ahmed Alshewered 5 months ago

Dear Authors and members of SJR
This journal was out of scopus.
Open Access Macedonian Journal of Medical Sciences was discontinued from SCOPUS.
I contacted with SCOPUS team and they surly said that.
Regards

reply

A Ahmed Samir 4 months ago

Dear Dr Ahmed
What can I do now?
I send them the fees as it is covered by scopus

E **Efrida Efrida** 5 months ago

Dear Scimago team and Prof. Dr Mirko Spiroski

I am the author of a paper named "Adiponectin is a single parameter that most correlates with Castelli Risk Index-II on Laboratory Workers who had Vitamin D Deficiency at M. Djamil General Hospital West Sumatera", Manuscript ID = OJS9522,. the paper was accepted on April 2022 by Open Access Macedonian Journal of Medical Sciences, also the payment of the regular publication fee was done on April 2022.

7 months till now and the paper is not yet published.

We have sent emails to the Chief Editor, Prof dr. Mirko Spiroski, but we have not received any information.

Appreciate your advice

reply



Melanie Ortiz 5 months ago

SCImago Team

Dear Efrida,
Thank you for contacting us. Unfortunately, SCImago cannot help you with your request. SJR is committed to help decision-making through scientometric indicators.
Best Regards, SCImago Team

G **Guspianto** 6 months ago

Dear Scimago team and Prof. Dr Mirko Spiroski

I am the author of a paper named "Quality of service and its effect on patient value, patient satisfaction and revisit intention: Investigation of the Public Health Center (PHC) in Jambi Province", Manuscript ID = OJS8666,. the paper was accepted on 1st of Feb 2022 by Open Access Macedonian Journal of Medical Sciences. The payment of the regular publication fee was done on 1st of March, 2022.

7 months till now and the paper is not yet published.

We have sent many emails to the Chief Editor, Prof dr. Mirko Spiroski, but we have not received any information.

Appreciate your advice.

reply



Melanie Ortiz 6 months ago

SCImago Team

Dear Guspianto,
Thank you for contacting us. Unfortunately, SCImago cannot help you with your request.
Best Regards, SCImago Team

W **WAHYU DN** 7 months ago

hello,
Open Access Macedonian Journal of Medical Sciences discontinued status at Scopus due to issues with the publication concern in August. what about journals that are in the review process.
thanks

reply

S **Salma A** 7 months ago

Hello, I am sorry but could you please include proof of this information to avoid misinformation, because from what I see on the Scopus website, <https://www.scopus.com/sourceid/21100824403> , the Journal is still Scopus Indexed since 2014- Present.

It would be beneficial if anyone else here could provide a valid update here. since I am planning to pay for the payment fee but I still have to make sure if it is still Scopus indexed or not.

Thank you very much in advance.

G **Ghada Elgarawany** 8 months ago

Dear Scimago team,

I am the author of a paper named "Impact of high aspartame and high fructose diet on vascular reactivity, glucose metabolism and liver structure in diabetic rats", Manuscript ID = OJS8810. the paper was accepted on 22th of March 2022 by Open Access Macedonian Journal of Medical Sciences.

The payment of the fee was done on 8th of April, 2022.

5 months till now and the paper is not yet published.

Me and the corresponding author have sent many emails to the Chief Editor, Prof dr. Mirko Spiroski, and I tried to contact by phone, but unfortunately, until now, we have not received any information.

Appreciate your advice.

reply

S **Soha** 6 months ago

Dear dr ghadai have the same problem as yours with my paper i would appreciate it for you to tell me if you figured to solve the publishing issue ..thank you

H **Hamid Khaleel AL-tameemi** 7 months ago

Dear Author,

I suggest sending the journal team directly.

SCImago Team

**Melanie Ortiz** 8 months ago

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Best Regards, SCImago Team

**Mira** 9 months ago

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reply

**Melanie Ortiz** 8 months ago

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Dear Mira,
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Best Regards, SCImago Team

G **Geralt of Rivia** 10 months ago

Dear colleagues

Just inform you

Open Access Macedonian Journal of Medical Sciences has been discontinued from scopus since June 2022 for "publication concern" reason. You could find it at the scopus discontinued source list june 2022 from scopus website.

reply

A **Ardia** 9 months ago

Dear Geralt

How about a paper that is published before June 2022? Will it publish in Scopus or not?
Thank you for your information...

**Melanie Ortiz** 9 months ago

SCImago Team

Dear Ardia,
Thank you for contacting us. A paper will be considered as Scopus indexed as long as it has been published in the same period in which Scopus has indexed the journal. For this reason, we always recommend to consult the Scopus database directly to see the current status of a journal.
Best Regards, SCImago Team



Melanie Ortiz 10 months ago

SCImago Team

Dear Geralt, thanks for your participation! Best Regards, SCImago Team

M **moonlight** 12 months ago

Dear editors,

I have revised and submitted the manuscript ID 7736 entitled "Correlation between level of Serum Transaminases and Duration of Antiepileptic Drugs in Epilepsy Children in Sanglah" in October 2021 and made the payment in January 2022. The editors team replied in March stated its awaiting final edits before publication.

Its been 2 months, I wonder hows the progression of the manuscript, could you please help me to check the progression? thank you in advance.

Best regards,
purnama

reply



Melanie Ortiz 12 months ago

SCImago Team

Dear Purnama,
Thank you for contacting us.
We are sorry to tell you that SCImago Journal & Country Rank is not a journal. SJR is a portal with scientometric indicators of journals indexed in Elsevier/Scopus.
We suggest you contact the journal's editorial staff , so they could inform you more deeply.
Best Regards, SCImago Team

D **drg. Rachmady nofriansyah** 1 year ago

Hi team how to do submit manuscript in here?

reply



Melanie Ortiz 1 year ago

SCImago Team

Dear Drg. Rachmady , thank you very much for your comment, we suggest you look for the author's instructions/submission guidelines in the journal's website. Best Regards,
SCImago Team

J **Junita Indarti** 1 year ago

Dear Prof Mirko Spiroski

My name is Junita Indarti, Thank you for the opportunity to be able to publish on OAMJMS, I ask for confirmation for my article oamjms.2022.8509

I received information from OAMJMS that my article [oamjms.2022.8509] had been accepted and asked to make payment in March 9, 2022 01:03 AM

Then I made a payment via VISA credit card in the same day (2022-03-09 04:22 PM) , after making the payment I confirmed through the system on the website

On March 14, 2022 i recieved an email, asking the credit card payment I made for which article. Then I reply the payment for Manuscript Number 8509

But after that there has been no answered from OAMJMS, and it's been a month since my article status is still copyediting.

I would ask, when would the article be available online? Thank you

reply

M **Mei neni** 1 year ago

I am a corresponding author of the manuscript entitled "Needs of Parents of Children with Cancer for a Parent Supportive Meeting" that was accepted on OAMJS on 27 December 2021 (oamjms.2021.8042), and I have paid the APC on 30 December. However, until now, I have not been informed of the current status. I have sent an email to Chief Editor, Prof dr. Mirko Spiroski 4 times and also sent messages by the online system, but unfortunately, until now, I have not received any information.

I would ask how is the status of our manuscript.

best regard

Mei Neni Sitaesmi

SCImago Team



Melanie Ortiz 1 year ago

Dear Junita,

Thank you for contacting us. Please see comments below.

Best Regards, SCImago Team

H **Hotma Rumahorbo** 1 year ago

I am the author of an article in the Open Access Macedonian Journal of Medical Sciences who has received a letter that the article has been accepted for publication. We received the letter on

August 24, 2021, and I have already transferred the bank transfer the funds amounting to the publication fee (400 euros) on August 26, 2021. I have sent the proof of transfer. On October 16, 2021, I received a letter that my payment had not been received and requested online payment within 2 days, otherwise, the publication of the article was canceled. I immediately wrote to the editor-in-chief and assistant editor (October 17, 2021), stating that I had transferred the payment on August 26 and included proof of the transfer. I have also gone to the bank where the delivery was sent to clarify the transfer problem. According to the bank, there is no problem, the funds have been sent. I was given proof that the funds had been sent and I immediately sent the bank statement to the editor-in-chief via email. However, until now I have not received any information, even though I have written to provide information.

Through my letter, maybe someone can share their experiences on how to solve problems like this? because I was confused about how to ask for clarification, the letter was not answered.

thank you

reply

A **asep** 1 year ago

Dear Hotma

I think your manuscript has been published by Journal of Macedonia...Just they needed time to process it

C **chris** 1 year ago

It takes time, just be more patient Actually you manuscript has been published. So You can give the information more completely.



Melanie Ortiz 1 year ago

SCImago Team

Dear Hotma,

Thank you for contacting us. Unfortunately, SCImago cannot help you with your request. SJR is committed to help decision-making through scientometric indicators.

Best Regards, SCImago Team

K **Kuat Oshakbayev** 2 years ago

Our manuscript has been accepted (#6164) and the APC is paid (order-28S-CG81NFH-ITJ2MUW) on June 3, 2021. However, the editor (Dr Mirko Spiroski) is ignored it and didn't reply any email nor phone call. I am as corresponding author three times had written email-letters to the editor, and to web-site of the journal, but no one time is not answered. Today is already June 28. Can Scimago check this journal credibility?

Thank you in advance.

Bests, Kuat

reply

T **Tommy** 2 years ago

Hi I am experiencing the same thing,

Have you got any solution? can you please share it with me, thank you.

S **Satriya Pranata** 2 years ago

please ask directly to the university (Cyril and Methodius University in Skopje) where Dr Spiroski works via email. This is very influential on his credibility as a scholar and his place of work must be aware of this problem because many people have experienced the same thing, not only you. good luck



Melanie Ortiz 2 years ago

SCImago Team

Dear Kuat,

thank you for your comment.

Our data source is Scopus, SCImago doesn't participate in the journal's selection.

SCImago has no authority to include or exclude SJR journals. We just show the data provided in the latest update by Scopus. Please contact Scopus Support regarding this matter here:

https://service.elsevier.com/app/answers/detail/a_id/14883/kw/scimago/supporthub/scopus/

Best Regards, SCImago Team

A **Andy** 2 years ago

My journal has been accepted and the APC is paid. However, the editor is ignored it and didnt reply any email nor phone call. Can Scimago check this journal credibility?

Best regards

Andy

reply

A **Arief** 1 year ago

Editor tidak membalas email tapi bukti bayar di upload di OJS

Tunggu saja dua bulanan. Nanti akan di minta koreksi final draft dan setelah itu nunggu terbit

Mereka tidak membalas email tapi memang langsung di tindak lanjuti prosesnya.



Mirko Spiroski 2 years ago

Dear Andy,

We sent you on 2020-11-13 09:57 AM a llete for Publication Fee and you did not answer to it
Prof. Dr Mirko Spiroski



Ivana 2 years ago

Hi Andi,

I also experience the similiar thing with my submisson. I could not login and no email replies right after I paid for the publication fee. May I know about your progress at te moment?

Best regards,

Ivana

| **Ivanova Gergana** 2 years ago

Journal is no more indexed in pubmed and PMC since one year?

Is this correct

reply

H **Hardi Chan** 2 years ago

The journal is no longer in Pubmed/ PMC, <https://www.ncbi.nlm.nih.gov/nlmcatalog?cmd=historysearch>



Melanie Ortiz 2 years ago

SCImago Team

Dear Ivanova,

Thank you for contacting us.

SJR is a portal with scientometric indicators of journals indexed in Elsevier/Scopus.

Unfortunately, we cannot help you with your request referring to the index status. We

suggest you consult Scopus database (see the current status of the journal) or the mentioned database for further information. You can also check that information in the journal's website or contact directly with the editorial staff.

Best Regards, SCImago Team

Y **Yousra Aly** 2 years ago

Good evening sir,

I am Yousra Aly . I am one of the authors of the article: A promising Probiotic irriigant: An in vitro study.published in open access Macedonian journal of medical sciences 2019 Feb 15; 7(3):407-411.

We found that within the article the revision date was written 1 Dec 2019 instead of 2018 as well as the acceptance date was written 2 Dec 2019 instead of 2018 , which is so confusing

Kindly; would you adjust it and send me a copy as soon as possible

Best regards

Yousra Aly

reply



Melanie Ortiz 2 years ago

SCImago Team

Dear Yousra,

thank you for contacting us.

We are sorry to tell you that SCImago Journal & Country Rank is not a journal. SJR is a portal with scientometric indicators of journals indexed in Elsevier/Scopus.

Unfortunately, we cannot help you with your request, we suggest you contact the journal's editorial staff , so they could inform you more deeply.

Best Regards, SCImago Team

A **Andi Sadapotto** 2 years ago

Dear Prof. Dr Mirko Spiroski,

Our article has been published in OAMJMS in Vol. 8 No. F , 2020, but it hasn't been appear in my scopus profile. How long to it appear in my scopus profile ?

Thank you for your concern.

reply

A **Agus Supinganto** 2 years ago

I Agus Supinganto has submitted the Implementation Implementation of Health Examination for Elector Recruitment Processes in the West Nusa Tenggara Province, "Manuscript ID = OJS4586" and has paid the publication fee on April 1, 2020 and the transfer slip has been sent directly to you and uploaded on the website OAMJMS. I have received the email for proofreading but I can't go to the website for proofreading. when will the article be available online?

Be thankful.

Best regards,

Agus Supinganto



Melanie Ortiz 2 years ago

SCImago Team

Dear Agus,

thank you for contacting us.

Unfortunately, we cannot help you with your request, we suggest you contact the journal's editorial staff , so they could inform you more deeply.

Best Regards, SCImago Team



Melanie Ortiz 2 years ago

SCImago Team

Dear Andi,
thank you very much for your comment, unfortunately we cannot help you with your request. We suggest you contact Scopus support:
https://service.elsevier.com/app/answers/detail/a_id/14883/kw/scimago/supporthub/scopus/
Best Regards, SCImago Team

M Majdah 3 years ago

We sent our manuscript and did submission, how many day take to publish our research if did fast track because some people did fast track and take long time to publish , and how can pay money to confirm if you are that will published early.

reply



Melanie Ortiz 3 years ago

SCImago Team

Dear Majdah,
thank you for contacting us.
We are sorry to tell you that SCImago Journal & Country Rank is not a journal. SJR is a portal with scientometric indicators of journals indexed in Elsevier/Scopus.
Unfortunately, we cannot help you with your request, we suggest you contact the journal's editorial staff , so they could inform you more deeply.
Best Regards, SCImago Team

S Sura Khairialdeen Mohialdeen 3 years ago

Dear Prof. Dr Mirko Spiroski,

I had submitted my revised manuscript titled: Inflammatory Markers in Pre-eclampsia to Open Access Macedonian Journal of Medical Sciences via the online submission system at 25/3/2020. I would be grateful if you could let me know whether there has been any further progress on my submission.

I resend the revised manuscript again here. thank you for all

Sura Khairialdeen Mohialdeen

reply

S Sultan 3 years ago

Just a follow-up, the journal is vanished and so do the Editor-in-Chief emails. They are no longer available.

Absolutely weird to happen in Science and research.

reply



Annisa 3 years ago

i emailed scientific foundation spiroski yesterday and they said they are migrating website content to a new server

S **Sneha Vaswani** 3 years ago

Prof. Dr Mirko Spiroski,

I Sneha Vaswani has submitted case report titled " Conservative management of the horizontal root fracture in the middle third using fiber post as an intraradicular splint." I have received acceptance letter for my manuscript (manuscript ID: OJS 4865) on 30 July 2020 and have paid the publication fee on 4th August 2020 and the transfer slip has been directly sent to you and uploaded on the OAMJMS website. I have received the email for proofreading but I couldnt login into website for proofreading. I would ask, when would the article be available online?

Waiting for your reply.

Thanking You.

Yours Sincerely,
Sneha Vaswani

reply

A **Annisa** 3 years ago

Hi Ms Vaswani, did they just contact you recetly? Because i couldnt send email since they remove the website



Melanie Ortiz 3 years ago

SCImago Team

Dear Sneha,

Thank you for contacting us. Please see comments below

Best Regards, SCImago Team

R **ROHINI KARAD** 3 years ago

Dear Prof Dr. Mirko Spiroski,

My name is Dr. Rohini Karad. I have submitted the manuscript entitled "Confocal Laser Scanning Microscopic evaluation of sealer penetration in root canals of teeth with the butterfly and non butterfly effect: An in-vitro study.". The manuscript ID : OJS 5168. I havent recieved any update since i have submitted the paper. I have emailed you several times but did not get a response. Is there any alternative where i can contact ?

Waiting for your reply.

Kind regards.

reply



Melanie Ortiz 3 years ago

SCImago Team

Dear Rohini,

Thank you for contacting us. Please see comments below

Best Regards, SCImago Team

R **Rawad Tarek** 3 years ago

Please I can't reach the website of the journal for author's guide to publish in your journal.

reply



Melanie Ortiz 3 years ago

SCImago Team

Dear Rawad,

Thank you for contacting us. Please see comments below

Best Regards, SCImago Team

R **Raghad E. Naji** 3 years ago

Dear publisher

I'm thankful for the opportunity to send my research to your journal. Whoever, if i want to open an account in your journal so i can send my research but the trouble there is no instruction in your home page about opining an account.

Pls. would you help me ?

reply



Melanie Ortiz 3 years ago

SCImago Team

Dear Raghad,

thank you for contacting us.

We are sorry to tell you that SCImago Journal & Country Rank is not a journal. SJR is a portal with scientometric indicators of journals indexed in Elsevier/Scopus.

Unfortunately, we cannot help you with your request, we suggest you contact the journal's editorial staff , so they could inform you more deeply.

Best Regards, SCImago Team

S **Sultan Alshahrani** 3 years ago

Their website is broken. No reply to my emails.

reply

R **Rindu** 3 years ago

I Can't access the journal, i've tried to send a email to chief editor but have not received an answer..i need confirmation, please scimagojr team, could you please to help me/us?



Melanie Ortiz 3 years ago

SCImago Team

Dear users,

Thank you for contacting us.

We inform you that all the information referring to the website of this Journal has been temporary erased on our website (you'll see "Information not localized") due to the fact that it is not available anymore. Unfortunately, we can not help you regarding the different questions related to the manuscripts sent to this journal. SJR is committed to help decision-making through scientometric indicators.

Best Regards,
SCImago TEAM

A **Aisyah Shofi** 3 years ago

I can't access website of OAMJS what should we do? there is no another contact of that journal except Prof Spiroski, either he never reply my message. Since last year it was Q2 and accredited with Scopus, I have no idea, is it a predator journal?

My manuscript was accepted last June, and until now there is such an information when the manuscript would be published.

I **Iin Ernawati** 3 years ago

yes, their website can't be accessed. why, we need confirmation.. may be Scopus can forward or looking for information about this condition



Melanie Ortiz 3 years ago

SCImago Team

Dear Sultan,

Thank you for contacting us. We will revise the information related to the journal's website as soon as possible.

Best Regards, SCImago Team



Researcher 1 3 years ago

I received the acceptance letter almost one year ago and paid for fast track. Now, it has been 9 months and the manuscript stuck in the copyediting phase. No response at all from the editor in chief. Strangely enough, there is only one email to Dr. Spiroski that you only can contact. No one else could be in touch. I sent him too many emails and never replies back. Now, I am confused, how can I withdraw my paper, how would they reply to me, can they get my money back??? Will never try to publish there again.

reply

A **Andy Zulfiqqar** 3 years ago

hello prof. spiroski. my name is andy zulfiqqar, we submitted 2 of manuscript on last december and accepted on february. therefore we completed the payment on the same day on both manuscript, one of manuscript was FAST-TRACT! and our payment already confirmed by your admin on 3rd day our payment. however, the editing programs has took 4 months, and we got declined email that declared that we can not full filled the payment.

we already sent our confirmation both on system and by an email, we sent you follow up email. but it's already 2 weeks neither our phone call and email that replied both your account and your supporting contact staff.

we urgently need your confirmation.

Best Regards

Andy Zulfiqqar

reply



Melanie Ortiz 3 years ago

SCImago Team

Dear Andy,
thank you for contacting us.
SJR is a portal with scientometric indicators of journals indexed in Elsevier/Scopus.
Unfortunately, we cannot help you with your request, we suggest you contact the journal's editorial staff , so they could inform you more deeply.
Best Regards, SCImago Team

W **Wishahi** 3 years ago

Dear Prof Dr. Mirko Spiroski,

My name is Prof. Dr. Mohamed Wishahi. In November 2019, we submitted our manuscript entitled "Ultrastructure pattern of smooth muscles of ureteropelvic junction obstruction in adults: An evidence for surveillance rather than pyeloplasty: Ureteropelvic junction by in adults". The manuscript ID is OJS4005.

Our manuscript was accepted on 07.03.2020, due to COVID-19 pandemic we paid the publication

fees on April 21, 2020 by SWIFT. I emailed you the transfer document On the same day. And bank statement showed that the money was transferred to FOUNDATION SPIROSKIRAJKO ZHINZIFOV NO 48, Consequently, on the journal website the status of our paper changed to "editing process and later Editor decision"

Surprisingly, on July 3, 2020, all the co-authors received an email that the decision was to decline the publication because we had not paid.

Immediately, I re-sent my email of April 21, 2020 together with the transfer document. Since then I have not received any answer from your side. I have tried to call you several times on the telephone given in your email contact – but no response.

Please, clarify the situation.

Yours sincerely,

Prof. Dr.med. Mohamed Wishahi

reply

A **Anas Munir** 3 years ago

Dear Sir,

You might have been scammed. The journal has been covered by the Science Integrity Digest in the article titled: "A Dermatology journal issue that might make your skin crawl" on 29th July as a potential predatory journal, publishing papers without peer review and unsubstantiated evidence. It is not even a member of Committee of Publication Ethics (COPE) officially and the peer review process is extremely unclear.

I suggest you to keep making contact with the "editors" in hope that they return your money either or publish your paper.

Best of luck.



Melanie Ortiz 3 years ago

SCImago Team

Dear Anas, thanks for the info! Best Regards, SCImago Team



Melanie Ortiz 3 years ago

SCImago Team

Dear Prof. Dr.med. Mohamed Wishahi,
thank you for contacting us.

We are sorry to tell you that SCImago Journal & Country Rank is not a journal. SJR is a portal with scientometric indicators of journals indexed in Elsevier/Scopus.

Unfortunately, we cannot help you with your request, we suggest you contact the journal's editorial staff , so they could inform you more deeply.

Best Regards, SCImago Team

K **Khairun Nisa Berawi** 3 years ago

Is the OAMJMS still scopus index for this year?

thank you

reply

S **sri maya** 3 years ago

Dear Prof Dr. Mirko Spiroski,

My name is dr. Sri Maya. I am a pediatrician in Indonesia. On 12th August 2019, I submitted my manuscript entitled "Growth, Development and Quality of Life in Children with Congenital Heart Disease". The manuscript ID is 4047.

My manuscript had been accepted and I was given 7 days to pay for the publication fees on March 2020. Unfortunately, I missed the deadline because I was in Tapanuli, a remote area in Sumatra island.

I apologise for this mistake due to the circumstances, I asked that you kindly allow me the opportunity to extend payment dateline now so that my article could be published in OAMJMS. I believe that many of our peers in the medical field could benefit from my article.

Please confirm that this arrangement can still be made so that I can process the required payment as soon as possible.

I've tried to reach you by email several times but haven't been replied until today.

I look forward to hearing from you soon. Thank you very much for your assistance.

Sincerely yours,

Sri Maya



Melanie Ortiz 3 years ago

SCImago Team

Dear Sri Maya,

thank you for contacting us.

We are sorry to tell you that SCImago Journal & Country Rank is not a journal. SJR is a portal with scientometric indicators of journals indexed in Elsevier/Scopus.

Unfortunately, we cannot help you with your request, we suggest you contact the journal's editorial staff , so they could inform you more deeply.

Best Regards, SCImago Team



Melanie Ortiz 3 years ago

SCImago Team

Dear Khairun, thank you very much for your comment. We suggest you consult the Scopus database directly. Keep in mind that the SJR is a static image (the update is made one time per year) of a database (Scopus) which is changing every day.

Best Regards, SCImago Team

M **mustaqim** 3 years ago

why Database connection failed!

reply



Melanie Ortiz 3 years ago

SCImago Team

Dear Mustaqim,

Could you please expand a little bit your comment? Best Regards, SCImago Team

R **Researcher** 3 years ago

I'd like to know when the next issue will be published knowing that the last one was published in January-February??

Thank you.

reply



Melanie Ortiz 3 years ago

SCImago Team

Dear Sir/Madam,

thank you for contacting us.

Unfortunately, we cannot help you with your request, we suggest you visit the journal's homepage or contact the journal's editorial staff , so they could inform you more deeply.

Best Regards, SCImago Team

S **Sohel** 3 years ago

Dear Prof.Dr.Mirko Spiroski,

I have found that there are many manuscripts published in your journal in OAMJMS in August but till now they have not found in PM/PMC. Now, is this journal excluded from the PM/PMC database? Please provide information regarding this issue.

Regards,

Sohel Rana

reply



Melanie Ortiz 3 years ago

SCImago Team

Dear Sohel,

thank you for contacting us.

We are sorry to tell you that SCImago Journal & Country Rank is not a journal. SJR is a portal with scientometric indicators of journals indexed in Elsevier/Scopus.

Unfortunately, we cannot help you with your request, we suggest you to contact the journal's editorial staff , so they could inform you more deeply.

Best Regards, SCImago Team

P **Prof Radovenski** 3 years ago

When will appear the 2 issues from September in PMC!

Is there a delay

reply



Melanie Ortiz 3 years ago

SCImago Team

Dear Radovenski,
thank you for contacting us.
Sorry to tell you that SCImago Journal & Country Rank is not a journal. SJR is a portal with scientometric indicators of journals indexed in Elsevier/Scopus.
Unfortunately, we cannot help you with your request, we suggest you to visit the journal's homepage or contact the journal's editorial staff , so they could inform you more deeply.
Best Regards, SCImago Team

B **B Ivanova** 3 years ago

Please, let us know why there is a delay in the indexation of the August issue of OAMJMS? This seems to be very strange? Is the pubmed indexation of the journal interrupted already or discontinued?

When YES- state this officially on the journal homepage?

Please, do not send me separate emails and answer public so that we all know what's going on

Kind regards

B Ivanova

reply



Melanie Ortiz 3 years ago

SCImago Team

Dear Ivanova,

could you expand your comment? If you are referring to Scopus indexation, we suggest you to contact Scopus directly:
https://service.elsevier.com/app/answers/detail/a_id/14883/kw/scimago/supporthub/scopus/

Best Regards, SCImago Team

S **Susy** 4 years ago

Prof. Dr Mirko Spiroski,

I have received acceptance letter for my manuscript (manuscript ID: OJS 2824) and have paid the publication fee at the same day 2 days ago and the transfer slip has been directly sent to you . I would ask, when would the article be available online? Thank you.

Regards:

Susy

reply

N **Nahed soliman** 4 years ago

Dear Dr Mirko

You sent acceptance to me without revising the PDF proof .I need to know more about the publication fee. What is the difference between regular article fee and copy rights editing

Thanks you

reply

R **Rodiah** 4 years ago

Dear SCImago team and Prof Mirko Spiroski

Hi..Iam Rodiah R Lubis, my article was published in OAMJS, May 18 2018, title "The Correlation Between Daily Lens Wear Duration and Dry Eye Syndrome". I've been waitiing for my name listed in Author preview scopus for 6 months, but still can't find my article listed. Some of my friends whose articles were published in September in your journal have listed their articles in the author preview scopus. Why is my article that was published 4 months earlier still not listed in scopus. Is there anything else that I haven't fulfilled so that my name is listed

Thank you Sir/Madame and I will wait for your answer

Regards,

Rodiah

reply

R **rusdiana** 4 years ago

Dear Prof.Dr.Mirko Spiroski

Dear Sir, my article has been published in your journal at 25 September 2018.But It is not indexed in scopus.My experience in your journal it was very fast indexed in scopus.thank you Sir and I will wait for your answer.

reply



Elena Corera 4 years ago

SCImago Team

Dear Rusdiana,

articles published in 2018 are not over yet (we are in September). 2018 indicators will not be available until June 2019. We cannot see what will happen in the future with this journal. SCImago receives the data from Scopus / Elsevier annually and does not have the authority to include, exclude or modify the data provided by Scopus.

Best Regards,
SCImago Team

R **Rodiah R Lubis** 4 years ago

Hi, My name is Rodiah R Lubis, my article has been published in OAMJMS, May 18, 2018 with title: "The Correlation Between Daily Lens Wear Duration and Dry Eye Syndrome", but I still can't find my name listed in Scopus author preview yet, and it almost 6 months since the publication. Kindly informed me why it takes so long.

Thank you,
Best regards,

Rodiah R Lubis

reply



Elena Corera 4 years ago

SCImago Team

Dear Rodiah,

articles published in 2018 are not over yet. 2018 indicators will not be available until June 2019. We cannot see what will happen in the future with this journal. SCImago receives the data from Scopus / Elsevier annually and does not have the authority to include, exclude or modify the data provided by Scopus.

Best Regards,
SCImago Team

N **Nevena Todorova** 5 years ago

I've noticed missing articles in Scopus. For example the article "Linguistic Validation and Cultural Adaptation of Bulgarian Version of Hospital Survey on Patient Safety Culture (HSOPSC)" is not indexed in Scopus database. What is the reason?

reply



Elena Corera 5 years ago

SCImago Team

Dear Nevena,

thank you very much for your comment, unfortunately we cannot help you with your request. We suggest you consult the Scopus database directly. Remember that the SJR is a static image of a database (Scopus) which is changing every day.

Best regards,
SCImago Team

E **Elham M.Youssef** 5 years ago

Hi, My name is Elham M. Youssef

I highly appreciate the time and effort for reviewing my manuscript. However, I have been sending several e-mails with the swift document of the publication fees the last couple of weeks but did not get any response.

I wonder if somebody help.

Manuscript number 1816-6534.

Entitled "Investigating of Moringa Oleifera Role on Gut Microbiota Composition and Inflammation Associated with Obesity Following High Fat Diet Feeding.

Kind Regards.

reply

P **Prof. Dr Mirko Spiroski** 5 years ago

Dear Elham,

As you know, your paper is published and you can find it on the following links:

- <https://www.id-press.eu/mjms/article/view/oamjms.2018.313>

- <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6108815/>

- <http://europepmc.org/articles/PMC6108815/>

- <https://www.ncbi.nlm.nih.gov/pubmed/30159057>

and will be visible very soon in many other databases.

Best regards,

Prof. Dr Mirko Spiroski

Editor-in-Chief

OAMJMS



Elena Corera 5 years ago

SCImago Team

Dear Elham, we suggest you contact the journal directly. Best Regards, SCImago Team

Leave a comment

Name

Email

(will not be published)

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Privasi - Persyaratan

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The users of Scimago Journal & Country Rank have the possibility to dialogue through comments linked to a specific journal. The purpose is to have a forum in which general doubts about the processes of publication in the journal, experiences and other issues derived from the publication of papers are resolved. For topics on particular articles, maintain the dialogue through the usual channels with your editor.

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Comparative Assessment of Various Concentration and Exposure Time of Sodium Dodecyl Sulfate as Decellularization Agents for Small-Vessels Vascular Tissue Engineering

Yan Efrata Sembiring¹, Rafaela Andira Ledyastatin², Atiya Nurrahmah², Ni Kadek Sulistyaningsih², Jeconia Agrippina Ruth Sinatra², Ito Puruhito^{1*}, Heri Suroto^{3,4}

¹Department of Thoracic, Cardiac and Vascular Surgery, Faculty of Medicine, Universitas Airlangga, Dr. Soetomo General Academic Hospital, Surabaya, Indonesia; ²Residency Program of Thoracic, Cardiac and Vascular Surgery Department, Faculty of Medicine, Universitas Airlangga, Dr. Soetomo General Academic Hospital, Surabaya, Indonesia; ³Department of Orthopedic and Traumatology, Faculty of Medicine, Universitas Airlangga, Dr. Soetomo General Academic Hospital, Surabaya, Indonesia; ⁴Cell and Tissue Bank - Regenerative Medicine, Faculty of Medicine, Universitas Airlangga, Dr. Soetomo General Academic Hospital, Surabaya, Indonesia

Abstract

Edited by: Ksenija Bogoeva-Kostovska

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***Correspondence:** Prof. Dr. Med Ito Puruhito, Department of Thoracic, Cardiac and Vascular Surgery, Faculty of Medicine, Dr. Soetomo General Academic Hospital, Universitas Airlangga, Surabaya, East Java, Indonesia. E-mail: puruhito.ua.ito@gmail.com

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BACKGROUND: Finding the optimum vascular grafts (VG) to replace damaged blood arteries in cardiac surgery is still a work in progress. To be employed, a tissue-engineered VG (TEVG) must have the appropriate biological and mechanical qualities. Decellularized arteries may be a better TEVG than synthetic grafts because of their natural three-dimensional architecture.

AIM: The goal of this study was to compare different concentrations and times of sodium dodecyl sulfate (SDS) to decellularize tissue to find the best decellularized VG.

METHODS: In all decellularized scaffolds, which are 1% SDS-2 weeks group, hematoxylin and eosin and Masson's trichrome staining exhibited looser collagen networks and fewer nuclei.

RESULTS: The orientation of collagen fibers was identical to native vascular scaffolds. Collagen I deposition was seen in the immunohistochemistry assay. A tensile strength test revealed that the decellularized scaffold (0.5% SDS for 4 weeks and 0.5% SDS for 2 weeks) had exceeded the native arteries' maximal strength. In comparison to 1% SDS in 4 weeks treated groups, scanning electron microscopy following decellularization revealed no endothelial cells on the inner side of 1% SDS in 2 weeks group with minimum extracellular matrix damage. The endothelial cells remained marginally visible on the inner side of all 0.5% SDS treated groups. The 3-(4,5-dimethylthiazol-2-yl)2,5-diphenyltetrazolium bromide test was used to determine the cytotoxicity of the decellularized scaffolds.

CONCLUSION: This study reveals that exposing a bovine mesenteric artery to 1% SDS for 2 weeks is an excellent procedure for extracting the most acellular VG, potentially serving as a biological scaffold for TEVGs.

Introduction

In the world, cardiovascular illnesses are the major cause of mortality and morbidity. One of the most common cardiovascular operations used to restore blood flow is coronary artery bypass grafting. From the previous study, more than 600.000 vascular grafts (VGs) are implanted to repair damaged blood arteries in cardiac patients [1]. In bypass surgery, autologous arteries such as the internal mammary artery and great saphenous vein, are the first choice for transplants. After 10–15 years, the internal mammary artery had a patency rate of about 90–95%, and the saphenous vein had a patency rate of about 50% [2]. However, some individuals are unable to get autologous grafts due to past diseases, surgery history, or insufficient sizes [3].

Meanwhile, synthetic grafts such as expanded polytetrafluoroethylene and Dacron grafts have

shown some success in replacing larger coronary vessels (6–10 mm in diameter); however, thrombotic events have been linked to rapid led graft failure in coronary bypass surgery in vessels with diameters <6 mm. Tissue engineering (TE) is a new study topic, in which the manufacture of VGs using cutting-edge manufacturing processes has attracted the interest of a scientific society [4], [5]. The function of endothelial regeneration and the resemblance of the mechanical properties of tissue-engineered VG (TEVG) to natural blood arteries were the conditions for an optimal TEVG, whether large or tiny [6]. To be used in clinical settings, TEVG must have the right biological and mechanical qualities. To prevent inducing a persistent inflammatory response during the material degradation phase, the biological performance of TEVG should enable perfect integration of the graft in the human body. Furthermore, TEVG's mechanical qualities must be comparable to those of natural blood vessels, notably in terms of

deformability, compliance, and strength. The traditional method of vascular TE is gradually being replaced by an in situ approach, also called as guided endogenous regeneration [7]. Autologous vasculature substitutes are created by implanting cell-free scaffolds that are colonized and modified endogenously.

Despite recent advancements, the fundamental factors that must be solved in VTE technology are the same as those that must be overcome in other organ TE approaches, particularly in producing a good scaffold with body-compatible tissue into which to seed cells [4]. Decellularized arteries, as opposed to synthetic grafts, can be good VTE grafts because of their natural three-dimensional features that enable host cell migration and vascular remodeling [8]. In addition, decellularized arteries have favorable mechanical qualities that allow them to withstand the effects of artery pressure *in vivo* [7]. Commercially available decellularized xenogeneic grafts are currently available. However, they perform poorly due to a lack of cellularity implantation. This can lead to increasing the risk of poor patency long-term, aneurysm formation, inflammation, and infection. Another downside of decellularized xenogeneic grafts is that they are more expensive than synthetic grafts. As a result, they have not been frequently employed in clinical trials [4], [5], [6]. As a result, several decellularized scaffolds generated from biological material such as bovine artery have been studied for use in small-diameter VTE continuously [1], [9]. Physical, chemical, and enzymatic procedures are commonly used in decellularization. Regrettably, no gold standard protocol exists for these treatments. Sodium dodecyl sulfate (SDS) is a highly effective anionic detergent for decellularization that has been used to remove cells from a variety of tissues.

Furthermore, SDS-based methods are straightforward, requiring only a few readily available reagents, and are thus a practical starting point for decellularizing tissue [10]. As a result, SDS is more routinely utilized to decellularize a variety of tissue types [10], [11]. As a result, this study was planned to compare the time exposure of SDS to decellularized tissue and analyze the various SDS concentrations to find the best decellularized VG.

Materials and Methods

Artery preparation

A nearby slaughterhouse provided the bovine fresh mesenteric artery preparation from cows. The artery was dissected, and the surrounding tissues were removed, including adipose tissue and connective tissue. They were cleaned in 0.9% Sodium chloride saline and stored at -20°C in a sterile container with a

streptomycin-penicillin solution. They were sliced into little (0.5 cm) and medium-sized pieces (5–6 cm).

Decellularization methods

The samples were divided into seven groups, with one control group and six experimental groups using (1) SDS 0.5% for 1 week, (2) SDS 0.5% for 2 weeks, (3) SDS 0.5% for 4 weeks, (4) SDS 1% for 1 week, (5) SDS 1% for 2 weeks, and (6) SDS 1% for 4 weeks. The artery was first washed with distilled water, then placed on an orbital shaker (TS-100, Stem Cells and Functional Tissue Laboratory Research at Dr. Soetomo Academic General Hospital Instrument Equipment Manufacturing, Surabaya Indonesia) for about 1 h (100 r/min), then incubated in a sterile container and soaked in distilled water for 8 h at room temperature with gentle agitation to demineralize the artery for group decellularization. They were treated with one of the six distinct decellularization techniques listed below after an additional 1 h of washing in distilled water, and the results were compared to the control group. The following phases in the decellularization technique were based on detergents. These arteries were immersed in either a 0.5 or a 1% SDS solution and continuously oscillated for each time in subgroups after an orbital shaker (1, 2, and 4 weeks). The decellularized arteries were then washed according to the technique to eliminate any remaining detergents. All of the procedures were carried out in a sterile, room-temperature environment. Finally, for immunohistochemistry (IHC) or standard hematoxylin and eosin (H and E) histology, all samples from each treatment group were preserved with 4% buffered formaldehyde or 10% buffered formaldehyde.

Histology examination

The formalin-fixed specimens were processed for imaging by dehydration. The process continues with embedding in paraffin sectioning into 5 m slices, and then staining with H and E. To assess the visibility of the scaffold's collagen, we utilize Masson's and Verhoeff-Van Gieson's trichrome staining. Under a light microscope, the stained tissue sections were evaluated using a digital image analysis system. The experienced histology physician from Dr. Soetomo Academic General Hospital examined the sections visually.

Scanning electron microscopy

Decellularized arteries were lyophilized for 48 h to remove all moisture before being sectioned with a scalpel, and scanning electron microscopy (SEM) stubs were mounted. Before imaging with an HITACHI FLEXSEM 100 scanning electron microscope, the samples were coated with 18nm osmium metal using

osmium plasma. Cross-sections of the sample interior and exterior were photographed to create representative photographs.

Cell viability study on scaffolds

Gamma rays of 25 kGy were used to sterilize all of the decellularized scaffolds. The decellularized vascular scaffold was placed in each well of a 24-well cell culture plate, and the MG63 cell line (Pasteur Institute) was cultivated on each scaffold for 1, 3, and 5 days at a concentration of 2×10^3 cells per scaffold. By observing the color change from yellow-colored tetrazolium salt 3-(4,5-dimethylthiazol-2-yl)2,5-diphenyltetrazolium bromide (MTT) to purple-colored formazan, the MTT assay was used to measure cell metabolic activity. The extract was prepared after a 24–26 h incubation period at 37°C in a 1 mL culture medium containing serum protein. The extract solution was diluted to 12, 5%, 25%, and 50% in the same culture medium. A subconfluent monolayer of L929 cells was incubated at 37°C for 24 h with an equivalent amount (100 mL) of HGPR05 extract, a negative control (high-density polyethylene), a positive control (dilute phenol), and a cell. The grown cells were incubated for 4 h at 37°C in a humidified, 5% CO₂ atmosphere after being treated with 50 mL of MTT. Excess MTT was removed by aspiration, and 100 mL isopropanol was added to dissolve the formazan crystals. The cytotoxicity tests were done three times. The color exchange was determined using a spectrophotometer to measure absorbance at 570 nm.

Biomechanical test: Tensile strength test

To recover the grant texture, samples with a length of 5–6 cm were preincubated in 0.9% NaCl for 15 min. The tests were carried out on an autograph universal testing machine with a 10N load cell and a crosshead speed of 1 mm/min. The clamps were separated by 10 mm. The distance between the valley and the mountain was 12 mm. For each scaffold, the measurements were taken at least four times. When a sample broke in the middle, the measurement was still valid. It was determined what the maximum strength was. The thickness of the specimen varies depending on the scaffold type. A computerized caliper was used to measure the thickness with an accuracy of 0.1 mm.

Statistical analysis

The data were analyzed using SPSS v25 (SPSS, Chicago, IL, USA). In the statistical

analysis, one-way ANOVA and the *post hoc* Tukey test were performed. To express quantitative data, the mean value standard error of the mean was utilized. A statistically significant $p < 0.05$ was also considered.

Results

Overall appearances of the scaffolds

Images of decellularized vascular scaffolds are shown in Figure 1. The decellularized scaffold was chosen at random from the experimental groups, with the negative control on the left (Figure 2). Each vessel's breadth, thickness, and length ($n = 6$) were also measured. The decellularized and control groups, on the other hand, showed no significant differences in breadth, thickness, or length (Table 1).



Figure 1: A gross view of decellularized bovine mesenteric artery

Histological analysis of the decellularized scaffolds

The cross-sections of the scaffolds in each group were evaluated using H&E staining (Figure 2a-g) and Masson's trichrome staining (Figure 2h-n). H and E examination of native arteries revealed dense cells embedded in the arterial wall (Figure 2a). The native artery exhibited fewer nuclei and looser collagen networks than the decellularized arteries. According to Masson's trichrome staining, the native arteries were largely made up of thick collagen fibers (blue) and smooth muscle cells (red). Decellularization indicated that the pores in each of the experimental scaffolds were large and generated light Masson's Trichrome staining (Figure 2h-n), suggesting considerable elastin loss. The blue line in Masson's trichrome staining represents the collagen in the ECM. The regular orientation of collagen fibers in the 1% SDS 2 weeks-treated group was identical to that of the intact vasculature. The

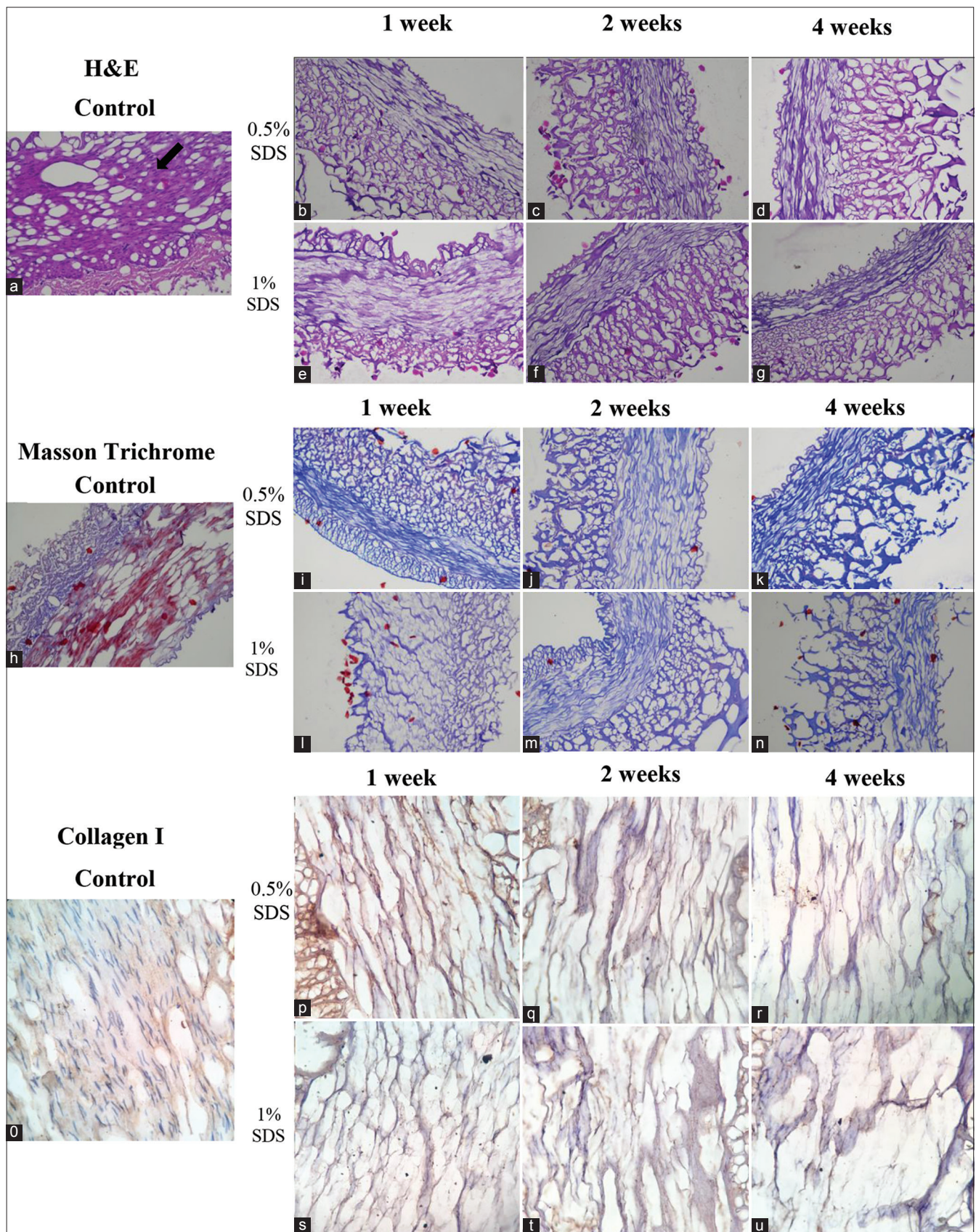


Figure 2: Visual characterization of decellularized blood vessel scaffolds. Various microscopic and histological staining techniques were employed to compare the following characteristics between six experimental decellularized scaffolds and fresh vascular controls. (b-g) Hematoxylin and eosin staining ($\times 400$) compared to control (a) and (i-n) Masson's trichrome staining results compared to control (h) ($\times 400$). And to evaluate the collagen thickness with immunohistochemical study with collagen I antibody (p-u)

Table 1: Result of width, thickness, length and tensile strength of decellularized artery with control

Variables (n = 6)	Mean width (mm ± SD)	Mean thickness (mm ± SD)	Mean length (mm ± SD)	Mean tensile strength (Mpa ± SD)
Control	5.50	2.44	52.05	4.35
SDS 0.5% 1 week	5.67	2.50	51.21	3.24
SDS 0.5% 2 weeks	5.55	2.51	50.28	3.20
SDS 0.5% 4 weeks	5.43	2.56	52.01	3.29
SDS 1% 1 week	5.52	2.27	52.00	3.23
SDS 1% 2 weeks	5.54	2.67	51.04	3.25
SDS 1% 4 weeks	5.51	2.43	52.06	3.12

SD: Standard deviation, SDS: Sodium dodecyl sulfate.

irregularity in collagen fibers orientation was higher in the 1% SDS 4 weeks-treated group than in the 1% SDS 2 weeks-treated group. Collagen irregularity is wavy and densely distributed in collagen fibers.

Other histological investigations indicated that the inner surface of the original arteries was made up of a smooth internal elastic lamina known as the basement membrane, which is necessary for endothelial cell adherence during the stem cell seeding phase. This structure is well retained in the original arteries and all decellularized groups (Figure 2).

Immunohistochemical study: Type 1 collagen antibody

Anti-collagen I IHC was done in formalin-fixed and paraffin-embedded scaffold sections according to the manufacturer's instructions. To show the collagen I deposition and expression within the cytoplasm of the cell, light microscopic analysis of anti-collagen I IHC stained decellularized artery scaffold section (Figure 2o-u) was performed. Statistical evaluations of decellularized scaffolds groups show a substantial loss of collagen control after decellularization ($p = 0.000$), although the 0.5% SDS 1 week-treated group was found to be the most group that maintained collagen content after the decellularization protocols (17.8 ± 2.31) (Table 2). 0.5% SDS and 1 SDS 2 weeks-treated groups, on the other hand, show a comparable result (13.8 vs. 13.8, Table 2). 0.5% SDS and 1% SDS 4 weeks, on the other hand, had the lowest level of type 1 collagen.

Table 2: Result of type 1 collagen in immunohistochemical staining of decellularized artery with control

Variables	n	Type 1 collagen		p
		$\bar{X} \pm SD$	Minimum-maximum	
Control	6	18.5 ± 1.04^d	17-20	0.000*
SDS 0.5% 1 week	6	17.8 ± 2.31^{cd}	15-21	
SDS 0.5% 2 weeks	6	13.8 ± 2.63^b	10-17	
SDS 0.5% 4 weeks	6	5.5 ± 1.04^a	4-7	
SDS 1% 1 week	6	15.0 ± 1.41^{bc}	13-17	
SDS 1% 2 weeks	6	13.5 ± 2.07^b	11-17	
SDS 1% 4 weeks	6	6.3 ± 2.06^a	4-9	

^{a,b,c,d}Different superscripts indicate groups with significantly different mean. SD: Standard deviation, SDS: Sodium dodecyl sulfate.

Scanning electron microscopy

SEM revealed the ultrastructure of an intact endothelial cell layer on the lumen of healthy arteries (Figure 3a). While no endothelial cells were

visible on the inner side of 1% SDS in 2 weeks-treated groups (Figure 3j) with minimum extracellular matrix degradation, no endothelial cells were evident on the inner side of 1% SDS in 4 weeks-treated groups (Figure 3n and o). The leftover endothelium cells remained faintly visible on the inner side in all 0.5% SDS treatment groups (Figure 3i-k). The matrices in the six decellularized groups, on the other hand, exhibited a similar appearance: the exterior microporous structures were sufficiently open for seeded cell migration and ingrowth, and all of the decellularized groups were more porous than the control vessels (Figure 3). All cellular components were eliminated from the arterial wall of decellularized arteries, and the porous marrow was exclusively made up of preserved-well collagen and elastin fiber (Figure 3a).

Tensile strength test

The tensile strength test revealed that the decellularized scaffold 1% SDS 1 weeks-treated group had the highest maximum strength among the other decellularized groups, as indicated in Table 1. After that, a group of SDS 0.5% treated for 4 weeks with 3.29 MPa was added. The maximal strength of 0.5% SDS in a 1-week-treated group and 1% SDS in a 2-week-treated group was found to be identical (3.24 MPa vs. 3.25 MPa). Meanwhile, the maximum strength of the tensile strength test was lowest in the SDS 0.5% in 4 weeks treated group (3.12 MPa).

Cytotoxicity of the decellularized scaffolds in vitro

The MTT bromide assay was used to assess the cytotoxicity of the decellularized scaffolds, as previously described. In addition, the RGRs of HUVECs grown in the presence of leach liquid from the scaffolds at varied concentrations were examined after 1, 3, and 5 days of culture. SDS 1% 2 weeks had tended to be the most viable decellularized scaffold among the other decellularized scaffolds, according to the results of the cytotoxicity MTT assay. Table 3 reflected this. On the cytotoxicity MTT assay, the SDS 1% in 2 weeks treated group had 121.09% viable cells compared to the control group.

Discussion

Decellularized VGs can serve as a suitable TEVG, potentially addressing the issue of graft scarcity in bypass surgery. The decellularized vascular scaffold benefited from the structure and mechanical performance while avoiding allergic reactions

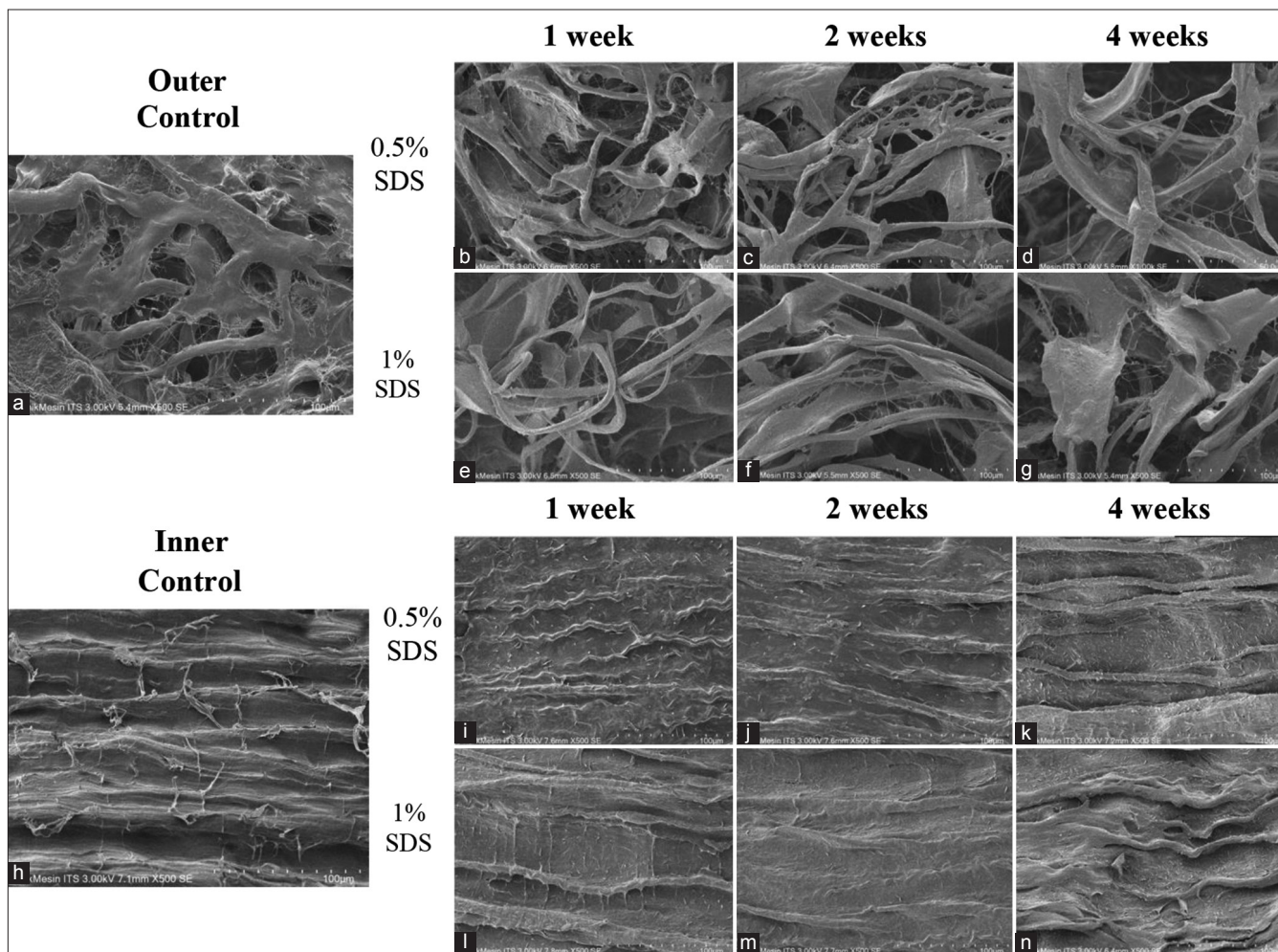


Figure 3: Visual characterization of decellularized blood vessel scaffolds. Scanning electron micrographs showing the outer (b-g) ($\times 500$) surfaces in six experimental groups compared to the control (a). The inner surfaces appearances showed (i-n) in the experimental group compared to the control (h) ($\times 500$)

associated with their development [11]. This research is the first step toward TE a small-diameter bypass graft. Our ultimate goal, like with previous engineering paradigms, is to create an acellular conduit scaffold that can be seeded with autologous vascular cells before implantation. The tissue source for such a product in this study was bovine mesenteric arteries.

Table 3: Cytotoxicity 3-(4,5-dimethylthiazol-2-yl)-2,5-diphenyl tetrazolium bromide assay of decellularized artery with control

Variables	Percentage of viability cells	Mean of percentage of viability cells
Control	101.81 98.19	100
SDS 0.5% 1 week	104.47 128.46	116.46
SDS 0.5% 2 weeks	110.87 111.98	111.43
SDS 0.5% 4 weeks	108.8 114.16	111.48
SDS 1% 1 week	114.13 111.85	112.99
SDS 1% 2 weeks	120.67 121.51	121.09
SDS 1% 4 weeks	107.75 108.87	108.31

SDS: Sodium dodecyl sulfate.

As indicated in a previous study, the artery was discovered to have a difference in the mechanism of intimal thickening, resulting in VSMC proliferation being less than the vein. As a result, there is less

atherosclerosis than in the veins [1]. Morrison *et al.* in Brazil discovered that the bovine mesenteric artery was less likely to develop problems such as thrombosis and neointimal hyperplasia [12]. In the creation of a vascular transplant, the artery of the mesenteric bovine is preferable to the vein in terms of graft patency [13], [14]. To build the most efficient acellular conduit scaffold, we compared different doses and duration exposures of SDS on the bovine mesenteric artery.

SDS is one of the most often used decellularization solutions because it is so successful at separating nuclear and cytoplasmic waste. SDS dissolves both the outer and nuclear membranes, denatures proteins, and changes the normal structure of the matrix. Due to its advantages, mechanical decellularization, such as SDS, was preferred in TE techniques. The vascular component was reduced to a minimum after decellularization, and the donor (bovine) cell was greatly reduced. SDS's procedure effectively reduced wall thickness following decellularization, similar to the prior work [8]. Decellularized arteries' cell signaling components also help with cell adhesion, migration, proliferation, and differentiation [15]. Decellularization ensures that no cellular components

are left behind, preventing immunological reactions while yet preserving biochemical and mechanical capabilities. Free-thawing, solvents, osmotic gradients, physical methods, detergents, chelating agents, enzymes, and combinations are all used to decellularize cells. Decellularization can be treated with detergents, which has a number of benefits, including being superficial, causing minimal damage, and allowing for simple control of experimental conditions [8], [13], [14].

This experimental investigation used SDS to prepare decellularized vascular scaffolds. Each group's decellularization resulted in a significant reduction in the loss of cells from the artery wall. The absence of visible cells in all groups of decellularized arteries in Figure 1 was confirmed by histological inspection using H and E staining. This indicated that our decellularization protocols had successfully removed cells. Figure 2 shows an SEM analysis. The big pores inside the decellularized groups were visible, indicating that the minimal decellularization criteria had been met.

Histology using Masson's and Verhoeff-van Gieson's trichromes (Figure 1) also shows that arteries subjected to the proposed treatments of decellularization can maintain their native structure without losing significant elastic fiber and total collagen, implying that the ECM structure is not severely damaged. The most scaffold that may show preserve the structure of ECM was found in SDS 1% 2 weeks. Similar to the previous study, SDS 1% group was shown to be the most successful in removing cellular material, which was expected given that ionic detergents are more effective in removing nuclear remains than non-ionic Triton X-100. In comparison to the SDS 1% group, the structure of the ECM was lost the most after 4 weeks. We discovered that as the concentration of SDS increases, the thickness of the ECM structure decreases, resulting in increased artery stiffness. The lack of smooth muscle cell layers causes the stiffness to grow. All of the groups saw a decrease in vascular wall thickness. In addition, histological photos show that the inner and outer elastic laminae, which are known to be important structures for endothelial cell attachment and thrombus resistance, have been preserved [16].

Small pores within the scaffolds may inhibit cellular penetration. Smooth muscle cells must colonize the inner part of the matrix and cause ECM scaffold remodeling in functioning TEVGs; hence, the ECM scaffold pore size is crucial [17]. The porous structure of the scaffolds is due to the extra space provided by removing cell layers, and the formation of large pores is most likely caused by the decomposition of small collagen fibers, which is unlikely to affect the scaffolds' mechanical properties [17], [18]. To determine the size of the scaffolds, we used SEM visualization. Large pores can be seen inside the ECM structure (Figure 2). It does, however, necessitate striking a compromise between obtaining appropriate porosity while preserving

the scaffold's microstructure and mechanical qualities.

The cytotoxicity test is widely accepted as a reliable means of determining the safety of biomaterials [19]. The cytotoxicity test was performed on human mesenchymal stem cells using the extremely sensitive and repeatable MTT assay. A biomaterial with an RGR score of Grade 0–1 can be classified non-cytotoxic according to the cytotoxicity criterion. In the PU VG cytotoxicity test, the RGR value was above 80%, indicating that the electrospun PU synthetic blood vessel is biosafe. The cytotoxicity MTT assay was used to determine the scaffold's vitality after the cells were implanted. After decellularization, all decellularized scaffolds were shown to be viable for cell implantation [20], [21]. The extracellular matrix of the three-dimensional decellularized vascular scaffolds is composed of primary collagen, elastin, and glycosaminoglycan (GAG), as previously indicated [7]. Collagen and elastin fibers might give tensile strength to tolerate pulsatile blood flow *in vivo* [16], [20]. Decellularization, on the other hand, may cause some metabolic and mechanical harm [22], [23]. When compared to native arteries, the mechanical properties of decellularized arteries were considerably inferior in terms of the maximum tensile strength (Table 1). The loss of GAGs following decellularization resulted in a drop in maximum tensile strength, which was consistent with a reduction in the viscoelasticity of decellularized arteries [11], [23]. However, among the other concentrations, SDS 1% 2 weeks demonstrated the best mean tensile strength, despite the fact that a recent study found that higher SDS concentrations impaired ECM composition, lowering mechanical strength.

Collagen and elastin, two key ECM components, are critical for the mechanical integrity of arteries. The ECM structure must be preserved in order for the vascular transplant to function properly [24], [25], [26]. As a result, we tested type 1 collagen in this work to see if it might reduce collagen components in the decellularized scaffold (Table 2). In all groups of decellularized arteries, there is a decrease. It has to do with the considerable loss of collagen that occurs as a result of the decellularization process.

There were a few flaws in this research. Due to the COVID-19 pandemic's restrictions, the quantification of DNA examination was halted in this experimental study. Animal experiments involving VG scaffold implantation are required to better evaluate the scaffolds' efficiency. To attain the greatest result of the tiny diameter of TEVGs, we propose to perform decellularized arteries with a combination of stem cell seeding to the graft in a future study.

Conclusion

The bovine mesenteric artery was shown to yield the highest acellular VG while also maintaining the ECM structure when treated with 1% SDS for 2 weeks. A biological framework for TEVGs made from decellularized bovine mesenteric arteries was shown to have a well-preserved structure and adequate biocompatibility.

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Ethical approval

This study was authorized by the Dr. Soetomo Academic General Hospital's health research ethics committee based on the regulations of the US Department of Health and Human Services (HHS) (0157/LOE/301.4.2/X/2020).

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