

Anxiety and perceived mental healthcare need among non-frontline in coronavirus referral hospital, Surabaya



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ABSTRACT

Introduction: The pandemic of COVID-19 has put healthcare workers under high pressure with possible psychological problems and its most common effects are insomnia, depression, distress, anxiety, and somatization symptoms. Previous studies in several centers have shown different results between frontline and non-frontline healthcare workers. This study aims to evaluate the levels of anxiety and perceived needs for mental healthcare among non-frontline healthcare workers during the COVID-19 pandemic in a referral hospital in Surabaya.

Patients and methods: This cross-sectional study involved forty respondents, but one was discontinued due to technical problems. Questionnaire of The Hospital Anxiety and Depression Scale (HADS) was adopted that has 14 scales with two subscales. The subscales include HADS-A for Anxiety and HADS-D for depression.

Results: The results show that both HADS-A and HADS-D have significant differences between the indirect and direct groups of contact healthcare workers, except in gender and depression, as shown in Table 3, with an average score of 8.000 (SD 5.02169) and 8.7333 (SD 4.71270), respectively.

Conclusion: Anxiety and depression remain a problem for all healthcare workers, whether frontline or non-frontline. Therefore, issues must be used to mitigate both the frontline and non-frontline healthcare workers.

Keywords: COVID-19 Pandemics, psychological burden, HADS, non-frontline HWC.

Cite This Article: Wijono, H., Melaniani, S., Kuntoro., Zakaria, Z.A., Oka, M., Marmaya, N.H.B., Ekawaty, R., Saputra, B.I. 2023. Anxiety and perceived mental healthcare need among non-frontline in coronavirus referral hospital, Surabaya. *Bali Medical Journal* 12(2): 1528-1532. DOI: 10.15562/bmj.v12i2.4197

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Received: 2023-02-21
Accepted: 2023-04-22
Published: 2023-05-09

INTRODUCTION

The COVID-19 virus infected over two million people around the world, with a mortality rate of 1.3 million. The duration of the COVID-19 pandemic is not known, and several countries, including Indonesia, have experienced second or third waves of COVID-19. Since the discovery of the COVID-19 virus, whose transmissive capacity is overpowering, the situation has deteriorated.¹ The World Health Organization (WHO) has stressed the exceptionally significant burden on healthcare workers who deal with the pandemic and stressed the urgent need to prevent the impact on their health.² The pandemic is a phenomenon that affects the physical and mental health of healthcare workers. The pandemic of COVID-19 was associated with health problems experienced by healthcare workers such as anxiety, depression, insomnia, psychological distress, and somatization symptoms.³

A previous study in Singapore found that non-medical workers had higher rates of anxiety and stress compared to medical workers. This is due to

limited access to pandemic medical information, psychological support, and personal protective equipment (PPE) manual training and infection control.⁴

Anxiety is defined as a mental health condition in which individuals experience worried thoughts and uneasiness. Furthermore, the health anxiety model of COVID-19 states that individuals who are affected are more likely to suppress those feelings by avoiding the situation. Anxiety can disturb their ability to function in a social setting.⁵

A study in Paris⁶ implement a psychological support system for non-frontline (Health Care Workers) HCWs after it was observed that their mental health was also affected. A study in Singapore reported that non-frontline HCWs were more likely to have anxiety than front-line HCWs, while A few studies reported that frontline HCWs were more likely to have anxiety than non-frontline.⁷ Furthermore, a study in Malaysia shows that non-frontline HCWs had higher anxiety mean scores than frontline. This indicates that they also require psychological support

during the COVID-19 pandemic.⁸ Mental health issues are another major concern, which is estimated to increase daily during the pandemic. Considering the relevance of the factors mentioned above, this study aims to evaluate the levels of anxiety and perceived mental healthcare needs among non-frontline healthcare workers during the COVID-19 pandemic in Surabaya.

This study aims to identify the level of anxiety among non-frontline healthcare workers in COVID-19 referral hospitals in Surabaya, the level of perceived mental healthcare needs among non-frontline healthcare workers in COVID-19 referral hospitals in Surabaya, and to investigate the difference between direct and indirect contact on anxiety and perceived mental healthcare needs among non-frontline healthcare workers in COVID-19 referral hospitals in Surabaya.

MATERIAL AND METHODS

This is a cross-sectional study conducted among non-frontline healthcare workers in hospitals in Surabaya. Forty non-frontline HCWs were invited to participate in the research, and sampling was adopted to select eligible participants. The exclusion criteria include participants having any psychiatric illnesses, while the inclusion criteria include consent for participation, non-frontline Health Care Workers, a legitimate employee in Husada Utama Hospital during the pandemic of Covid-19 and literate internet communication (google form).

Backoffice healthcare workers, further defined as non-front liners, also have brief, non-physical contact with patients. In the category of indirect contact were administrations, finance, secretaries, cooks, and engineers. Those with direct contact include security, parking, housekeepers, and food deliverers.

The socio-demographic data included age, education level, race, number of children, household income, marital status, and occupational data, which included the duration of employment, type of work, and shift. The Hospital Anxiety and Depression Scale (HADS) questionnaire was adopted that has 14 scales with 2 subscales. The subscales include the Hamilton Anxiety Depression Scale-Anxiety (HADS-A) and the Hamilton Anxiety Depression Scale-

Depression (HADS-D). The instrument consists of 14 questions. The odd and even items measure anxiety and depression levels, respectively. The 4 response choices are never (0), mild (1), moderate (2), and severe (3), with the possible scores ranging from 0 to 21. The cut-off point is 8, which implies that anxiety is indicated when the scores for the items are 8 or above. Furthermore, a questionnaire developed by Deblina Roy et al., 2020 was used to measure Perceived mental healthcare needs. The questionnaire has 5 items, for example: Do you think it would be nice to talk to someone about your COVID-19 worries? These questions were structured on a 5-point Likert scale from 1 "Strong disagree" to 5 "strongly disagree". Please refer questionnaire in the appendix. Regarding the Statistical Analysis, we use IBM SPSS, using version 25. The resulting data is homogenous, independent sample tests were used.

RESULTS

This study involved thirty-nine respondents, which include back-office, non-medical staff, and employees, with the indirect and direct groups of healthcare workers ($n = 24$ and 16 , respectively). The response rates attained from the groups above were 100% and 93.75%, respectively, ranging from the driver, security, food beverage staff, front office admission, transporter, cleaning service, engineering, medical records, computer technicians as well as administration staff, such as marketing, secretaries, human resources department, and accountings.

They were further categorized in positive contact with covid patients based on the nature of their job descriptions, such as driver, security, food beverage, front office admission, transporter, and cleaning service. Those with strictly no contact include administration staff, engineering, medical records, and computer technicians. The demographic of both groups is shown in [Table 1](#).

From the table below, 58.97% of respondents were male, in contrast with frontline employees in the same hospital, accounting for 23.77%, because the majority of nurses were female. Although, in doctors, the ratio is slightly higher, accounting for 52.3% of males. The

respondents were dominated by married individuals at 84.61%, compared with 87.23% in the frontline section. Age was predominantly in the forties (41.03%). In the age range of the twenties, 20% of respondents have abnormal depression results and none in anxiety. Meanwhile, in the age range of the thirties, one respondent each showed an abnormal category on the depression scale and anxiety score, accounting for 9.09%. In the range of forties, only one respondent showed results abnormal scale in depression and anxiety, accounting for 7.69%.

In the marriage category, 4 (11.4%) respondents showed results of borderline or above in depression and 3 in anxiety, accounting for 8.57%. Meanwhile, in the unmarried group, only one respondent showed borderline results in depression score, accounting for 20%, and none in anxiety.

In the category of contact with COVID-19 patients, 3 (20%) respondents showed borderline results in depression and 1 in anxiety. However, in groups of non-frontline healthcare workers with no contact, 3 respondents showed an abnormal result in depression, accounting for 12.5%, and none in anxiety

In [Table 2](#), there was a significant difference between direct and indirect contact. The HADS-A and HADS-D show no significant difference between the indirect and direct groups of healthcare workers, as shown in [Table 3](#), with an average score of 8.000 (SD 5.02169) and 8.7333 (SD 4.71270), respectively showing minimal case according to the scoring result. In contrast to the typical preponderance of female healthcare workers in hospitals, the gender distribution continues to indicate a greater proportion of men. Furthermore, the majority of respondents are married, with an average age in direct and indirect contact groups of 37.3 and 40.8 years, respectively.

As shown in [Table 4](#), no significant differences were also found in regards to either depression and anxiety with contact, marriage, and gender.

DISCUSSION

Anxiety is defined as an emotion characterized by uneasiness feeling,

excessive worry, and physical changes like increased heart rate. Individuals may experience some symptoms such as restlessness, poor concentration, muscle tension, difficulty sleeping, and irritability.^{9,10} On the other hand, depression is a mental condition manifested by loss of interest, excessive guilt, disturbed sleep, loss of appetite, and poor concentration.¹¹

In general, COVID-19 has caused stress, anxiety, and depression to a large

population. A systemic review and meta-analysis of stress and anxiety in the general population from the beginning of Covid-19 to May 2020 by Salari et al. found a stress prevalence of 29.6%, with a 95% confidence limit of 24.3–35.4 in 9,074 samples of 5 studies. The prevalence of anxiety was 31.9%, with a 95% confidence interval of 27.5–36.7 in 63,439 samples of 17 studies. Furthermore, depression was 33.7%, from 44,531 samples of 14 studies, with a 95% confidence interval

of 27.5–40.6.¹² For comparison, Geoffroy in Paris found 71.5% of 1,257 distressed healthcare workers, 44.6% anxiety, 50.4% with symptoms of depression, and 34% insomnia.⁶ Repeated exposure in the media of crisis in the community led to increased stress and its responses, a higher degree of anxiety, and a deterioration in the public's general health, overburdening the health resources and facilities with misplaced presumptions.¹³

Meanwhile, anxiety is caused by a combination of physical conditions, stress, environmental factors, and genetics due to the disruption of modulation in the central nervous system. This causes low activity in the serotonin and noradrenergic pathway. Anxiety is associated with elevated leukocyte levels and a negative connection with erythrocytes and RDW, showing its role in the immune system, particularly during the Covid-19 pandemic.⁹ Depression is higher in developing countries due to other possible infectious diseases and relatively limited healthcare resources. Women have also been observed to be more susceptible to depression compared to men,¹² but this study showed no significant difference between gender.

Several studies have intensively examined healthcare workers in stress, anxiety, and depression.^{6,14–16} However, they were mostly limited to frontline workers, defined as those with continuous contact with patients, such as doctors, nurses, pharmacists, radiographers, laboratory staff, and physiotherapists.^{3,7,8,17–19} These studies provided appropriate recommendations for mitigating the psychological effects

Table 1. Demography of respondents.

Variable	N = 40
Gender	
Male	23 (58.97%)
Female	16 (41.03%)
Marital Status	
Married	33 (84.61%)
Single	6 (15.39%)
Patient Contact	
Direct Contact	15 (38.46%)
Indirect Contact	24 (61.54%)
Age	
21-30 years old	11 (28.20%)
31-40 years old	10 (25.64%)
41-50 years old	16 (41.03%)
>= 51 years old	2 (0.05%)

Table 2. Characteristics of healthcare workers in association with direct/indirect contacts.

Variables	Direct contact		Indirect Contact	
	N = 15	(%)	N = 24	(%)
Age means (years)	37.3 years		40.8 years	
Marital Status				
Married	13	86.7	22	91.7
Single	2	13.3	2	8.3
Gender				
Male	11	73.3	15	62.5
Female	4	26.7	9	37.5

Table 3. Characteristics of healthcare workers in association with direct/indirect contacts.

Groups	n	Desc. Mean	(SD)	Mean Diff (95% CI)	F Stat (df)
Indirect contact	24	8.0000	5.02169	-0.73333	0.067
Direct contact	15	8.7333	4.71270	(-4.00586; -3.97691)	

Table 4. Characteristics of healthcare workers in association with direct/indirect contacts.

No	Item	Sig	t ^a	Sig ^b
1	Anxiety and contact	0.939	-0.89	0.929
2	Depression and contact	0.979	-0.117	
3	Anxiety and Marriage	0.403	-0.334	
4	Depression and Marriage	0.518	0.18	
5	Anxiety and Gender	0.062	0.218	
6	Depression and Gender	0.494	2.893	

of COVID-19 on frontline healthcare workers. Only a few have highlighted the effect on non-frontline healthcare workers,^{7,8} hence, more investigation should be implemented.

A study in Kelantan, Malaysia, as well as Tan et al. in Singapore, found a similar level of psychological burden between frontline and non-frontline healthcare workers. However, Geoffroy et al. in Paris, despite the significant difference in the number of frontline healthcare workers, found the opposite.^{6,8} The difference is that Kelantan used the HADS and Medical Outcome Study. Singaporean study adopted the validated Depression, Anxiety, and Stress Scales (DASS-21) and the Impact of Events Scale-Revised (IES-R) instrument, while France used quantitative data from a healthcare hotline in Paris, France.^{4,6,8} The results both showed similar stress, anxiety, and depression level between the three groups.

The result of a study showed that anxiety harms leukocyte level, erythrocyte count, and Red Cell Distribution Width,⁹ innate immune response increase, with a high number of neutrophil, eosinophil, and basophilic granulocyte cells due to increased pro-inflammatory cytokines level in IL-1, IL-6, and TNF- α produced by innate immune system cells.²⁰ Stress is known to increase the likelihood of illness among healthcare workers²¹, besides its negative effect on work quality and environment.¹⁹

Psychological effects on non-frontline healthcare workers can be due to the reduced availability to provide psychological support, as well as medical information on the COVID-19 pandemic and its manifestations. Another factor is the necessary infection control measures and intensive training on personal protective equipment.⁴

This study found that anxiety and depression are associated with marriage and patient contact, a similar study has found similar results.²² Furthermore, anxiety is significant in terms of gender, while depression is not, with males exhibiting the highest level. Although the Non-frontline Health Care Workers due to their job description have a shorter duration of contact with Covid-19

patients, inevitably they have similar anxiety and depression as their fellow frontline health care worker counterparts, being older and having more clinical experience aggravates both anxiety and depression.^{22,23} The male respondents showed a higher level of anxiety, this could be due to the responsibility on culture and environment in our society which still predominantly placed the male gender as the family bread winner, the main family provider.²²

The interventions for non-medical healthcare workers should involve education for the fulfillment of understanding and usage of measures in infection control and mitigations. This includes support in psychological, such as counseling services and support system development.²³⁻²⁶ Education for appropriate personal protective equipment, proper placement of COVID-19 patients as well as infection control measures, such as standard hand hygiene and washing, have all proven successful in a referral hospital.

More studies are required to determine the possible relationship between anxiety, depression, gender, marriage, and contact with COVID-19 patients. Furthermore, despite the anonymity of the questionnaire, this study has some limitations, such as lack of socioeconomic status, and it was conducted in a single center.

CONCLUSION

Anxiety is one of the most common mental distress caused by the COVID-19 pandemic. This study found a significant difference in HADS scoring in non-frontline healthcare workers between those with indirect and direct contact. Therefore, it is prudent that their psychological health should be protected by providing and improving mental health support, as well as care services globally. Ultimately, it is hoped that this study will provide policymakers with actionable insights to formulate a method to deal with higher anxiety levels among non-frontline healthcare workers in hospitals.

DISCLOSURE STATEMENT

The authors declare nothing to disclose.

AUTHOR CONTRIBUTION

W.H., main Author, K.K. and M.S., corresponding author, R.I., H.N., and Z.A.Z. Statistical analysis, O.M., supported the data collection. The authors are grateful to the management of Husada Utama Hospital for their support during the study.

ETHICAL APPROVAL

This study was ethically approved by the University of Surabaya, Institutional Ethical Committee, with reference number 193/KE/VIII/2021.

CONFLICT OF INTEREST

The Authors declare no conflict of interest regarding this article.

FUNDINGS

The financial sources were covered by the personal fund of the authors.

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Nety Mawarda Hatmanti, Ulfa Mazuzin Zurmida, Yurike Septianingrum, Nunik Purwanti, Siti Maimunah



Friska Ayu, Muslika Nourma, Moch Sahri, Octavianus Hutapea, Bondan Winarno


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Health profile of batik workers in Malon Village Indonesia (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4295>)

Evi Widowati, Arif Rahmat Kurnia, Yuliati, Yoris Adi Mareta, Puji Lestari, Muhammad Kurniawan, Widya Hary Cahyati

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Plasma collection in Indonesia - a challenge to implement fractionation (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4296>)

Teguh Triyono Triyono, Hasna Fadlilatul Bidayah

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Mozart's or murotal, which is more effective for spatial memory? an experimental study on mice (*Mus musculus*) (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4299>)

Akbar Reza Muhammad, Dyah Yuniati, Irmawan Farindra, Fifi Khoirul Fitriyah, Hafid Algristian

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Comparison of freeze dried human amniotic membrane and its combination with platelet rich fibrin for the epithelial acceleration in an acute wound excision using *Rattus Novergicus* study model (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4300>)

Yanuar Ari Pratama, Lobredia Zarasade, Beta Subakti Nata'atmadja, Arif Rahman Nurdianto

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Medication adherence and visiting compliance: interventions self-management education based on health belief model (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4302>)

Joni Iskandar , Eppy Setiyowati, Chilyatis Zahroh

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The effectiveness of the application of self-hypnosis and prenatal gentle yoga on emesis gravidarum in the first-trimester pregnant women (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4303>)

Yasi Anggasari, Fauziyatun Nisa, Ratna Ariesta Dwi Andriani, Yunik Windarti

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The effectiveness of CRP and leukocyte examinations as a detection of risk factors for pre-eclampsia in pregnant women (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4304>)

Nur Masruroh Masruroh, Lailatul Khusnul Rizki, Uliyatul Laili, Dhifa Nur Alifah

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Analysis of the characteristics of pregnant women affect nurse interaction with self hypnosis approach in prevention of preeclampsia (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4306>)

Faridah Umamah, Budi Santoso, Esti Yunitasari, Siti Nur Hasina, Raden Khairiyatul Afiyah

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Psychometrics of social norm and beliefs on gender-based violence in Indonesia (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4307>)

Syiddatul Budury, Nunik Purwanti, Khamida, Diah Jerita Eka Sari

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Trigone point as an alternative location for ventricular shunt insertion (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4309>)

Yuriz Bakhtiar, Dewi Sartika, Zainal Muttaqin, Muhammad Thohar Arifin, Sukma Imawati, Farah Hendara Ningrum

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Estimating the safe duration and concentration of benzene exposure in the workplace in the printing industry (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4311>)

Moch. Sahri, Octavianus Hutapea, Muslikha Nourma Romadhoni, Friska Ayu, Efi Sriwahyuni, Shamsul Bahari Shamsudin

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Development of non-pharmacological pain management (behavioral intervention) model based on family-centered empowerment in toddlers with invasive procedures (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4312>)

Wesiana Heris Santy, I Dewa Gede Ugrasena, Yuni Sufyanti Arief, Nur Hidayah, Firdaus, Resti Utami




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The effect of lavender aromatherapy on the incidence of dyspareunia in post partum mothers (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4313>)

Yunik Windarti, Fitria Dwi Anggraini, Hinda Novianti

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Histopathological findings of the liver and kidneys of wistar rat exposed to insect repellent (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4315>)

Ary Andini, Lysa Veterini, Edza Aria Wikurendra, Achmad Syafiuddin, Defi Rimasari, Munifa Nur Aida

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The effectiveness of banana consumption on blood pressure, liver function, and lipid function in construction workers (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4316>)

Andreas Putro Ragil Santoso, Devyana Dyah Wulandari, Firdaus, Rizki Nurmalya Kardina, Ahmad Jazuly Nabil, Dewi Kuncoro Yakti Pamungkas, Salfa Salsabilah Zain, Marotur Rohima

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Mindfulness eating based on spiritual interventions on diet compliance and blood sugar levels in type 2 DM patients (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4317>)

Riska Rohmawati, Lono Wijayanti, Ratna Yunita Sari, Imamatul Faizah, Rahayu Anggraini

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Exploring waiting time, waste, and resources used for boarding patients in emergency department (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4318>)

Agus Aan Adriansyah, Nurul Jannatul Firdausi, Trisasi Lestari, Kuncoro Harto Widodo, Nikmatus Sa'adah

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Analysis of energy needs and energy intake with health status of field workers at PT. A (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4321>)

Merry Sunaryo, Ary Andini, Pratiwi Hariyani Putri, Mulyadi, Novegian Sunaryo, Iva Widyanti

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The effectiveness of the ERACS (Enhanced Recovery After Caesarean Surgery) method on postoperative pain and the onset of colostrum excretion (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4324>)

Esty Puji Rahayu, Fauziyatun Nisa, Ratna Ariesta Dwi Andriani, Fritria Dwi Anggraini

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The self-acceptance model improves the behavior of maintaining the quality of life after a hysterectomy (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4325>)

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The effect of family background on autism spectrum disorder student's pronunciation mastery: a case study (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4326>)

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The effectiveness of acupressure and dhikr in reducing anxiety in pregnant women in the third trimester (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4329>)

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The effectiveness of heat patch on afterpain levels during the puerperium (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4331>)

Lailatul Khusnul Rizki, Nur masrurroh, Yati Isnaini Safitri

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Composite characterization of freeze-dried human amnion membrane and human adipose tissue derived stromal cells for soft tissue engineering (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4333>)

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Radar plot analysis of Helicobacter pylori detection in North Peninsular Malaysia (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4334>)

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
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Mother's motivation and attitude towards baby spa services during the COVID-19 pandemic (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4336>)

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Implementing the Sendai Framework for Volunteers in Sidoarjo District (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4337>)

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Relationship between family support and tuberculosis transmission prevention behavior (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4338>)

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Relationship between the level of participation in implementing fit-to-work on unsafe behavior in lift and transport operators at PT. BJTI (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4340>)

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Impact of preeclampsia on the outcome of COVID-19 infection (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4341>)

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Correlation between T-lymphocyte CD4+ and Total Lymphocyte Count (TLC), hemoglobin,

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Comparative study on albumin, C-Reactive Protein (CRP) and D-dimer in chronic



Neutrophil to Lymphocyte Ratio (NLR) and T-lymphocyte CD4+/CD8+ ratio in HIV patients at Prof. Dr. I.G.N.G Ngoerah Hospital, Denpasar, Bali, Indonesia (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4342>)

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The character of PA3235 virulence factors of Pseudomonas aeruginosa PAO1 – a preliminary study (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4364>)

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Effect of medroxyprogesterone and doxycycline on vascular endothelial growth factor (VEGF) expression and corneal neovascularization in corneal alkali trauma (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4366>)

Muhammad Fariz, Luki Indriaswati, Sutjipto

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The bcl-2 and caspase-3 expression after purple sweet potato treatment on isoniazid and rifampicin-induced liver injury (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4370>)

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High levels of interleukin-6 and triglycerides and low levels of soluble leptin receptors as risk factors for leptin resistance in obese adolescents (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4371>)

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Survival analysis of breast cancer patients luminal subtype B on lymphovascular invasion (LVI), tumor-infiltrating lymphocyte (TIL), and expression of mammaglobin A (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4381>)

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The effect of school closure and online learning during the COVID-19 pandemic on the academic performance of elementary school-aged children (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4384>)



I Wayan Sudarsa, Nyoman Diwiya

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Effect of dexmedetomidine administration on malondialdehyde levels in lower extremity surgery using tourniquets (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4386>)

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The effectiveness of platelet rich fibrin (PRF) graft to expression of IL-1 and TNF- α in cornea post NaOH exposure: an experimental study (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4389>)

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Selamat Budijitno, Satrio Putra Prawiro, Eriawan Agung Nugroho, Luqman Alwi, Putu Anda Tusta Adiputra

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Molecular docking studies of Brucein D as a potential inhibitor of the Bcl-2 anti-apoptotic protein (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4414>)

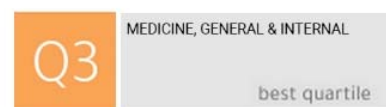
Pandu Ishaq Nandana, Haerani Rasyid, Prihantono, Ika Yustisia, Lukman Hakim

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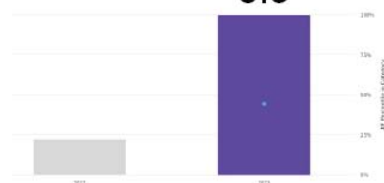
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Prevention, identification and reduction of dementia risk factors in transgender elders (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4421>)

Iis Noventi, Priyo Mukti Pribadi Winoto, Erika Martining Wardani, Siti Nur Hasina, Rahmadaniar Aditya Putri

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The effectiveness of triple elimination examination (HIV, syphilis, hepatitis), roll over test (ROT) and mean arterial pressure (MAP) and self hypnosis on emergency management of high risk pregnant women during pandemic (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4422>)

Ika Mardiyanti, Esty Puji Rahayu, Nur Zuwariah, Priyo Mukti Pribadi Winoto, Hartatiek Nila Karmila

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Family support in chronic kidney failure patients with hemodialysis (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4423>)

Lono Wijayanti, Ah Yusuf, Ika Yuni Widyawati, Moch. Faisal Arif, Priyo Mukti Pribadi Winoto, Yurike Septianingrum, Erika Martining Wardani

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Determinants of fracture patients in nonunion or delayed union (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4427>)

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Effect of COVID-19 pandemic large-scale social restriction to low back pain epidemiology, a single center study in Jakarta, Indonesia (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4436>)

Handriadi Winaga, Stevanus Irfan Ario, Vincent Gunawan, Samuel Andikusuma, Dave Kennedy

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The influence of health education on dietary approaches to stop hypertension (DASH) on knowledge and attitude of hypertension patients (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4437>)

Difran Nobel Bistara, Ganda Putra Kurniawan, Arif Helmi Setiawan, Nanik Handayani

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Student perception of nurse communication learning with patients according to pancasila values (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4438>)

M. Shodiq, Siti Nur Hasina, Siti Maimunah, Mujad Didien Afandi

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Risk factors of ventilator-associated pneumonia in intensive care patients at tertiary referral hospital (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4446>)

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Surgical epidemiology of spinal cord tumors at Dr. Kariadi Hospital, Semarang, Indonesia (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4450>)

Endi Suryo Utomo, Happy Kurnia Broto Arianto, Ajid Risdianto, Dody Priambada, Erie Bambang Priyono Setyabudi Andar, Zainal Muttaqin, Muhamad Thohar Arifin, Krisna Tsaniadi Prihastomo, Yuriz Bakhtiar

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Optimization of a local type rabbit model for arteriovenous fistula, focused on study neointimal hyperplasia (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4459>)

Yopie Afriandi Habibie, Dessy Rakhmawati Emril, Azharuddin, Dedy Syahrizal

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The relationship between salivary cortisol levels with risk of behavioral-psychosocial-emotional disorders in adolescents aged 12-16 years (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4472>)

Ayling Sanjaya

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The optimized method for mesenchymal stem cell differentiation into pacemaker-like cell (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4475>)

Faris Faris Basalamah, Ismail Hadisoebroto Dilogo, Sunu Budhi Raharjo, Muchtaruddin Mansyur, Nuryati Chairani Siregar, Nurhadi Ibrahim, Budi Yuli Setianto, Yoga Yuniadi

Online First: Jul 27, 2023 |

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Metabolic profiles of internal medicine residents (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4479>)

I Made Pande Dwipayana, Wira Gotera, Made Ratna Saraswati, I Made Semadi, Ida Bagus Nugraha, Anak Agung Gede Budhiartha, Ketut Suastika

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Psychiatric aspects of healthcare workers during COVID-19 pandemic in Surabaya, Indonesia: prevalence of anxiety, resilience, burnout, and their correlations to stress markers (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4480>)

Margarita M. Maramis, Soetjipto, Yunias Setiawati, Agustina Konginan, Nalini Muhdi, Winson Chuanardi, Yusuf Ibrahim, Rosalia A. Malika, Sandra C.N. Tang, Kadek D. Chandita, Natasha A. Tayibnapis, Abdul J.A. Hayyan, Adde M.P. Chafid, Elizeus Hanindito, Nancy M. Rehatta, Moses G.R. Pandin, Tarmono, Damayanti Tinduh, Cita R.S. Prakoeswa, Fitriah Munawaroh

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Genetic heterogeneity of thalassemia major patients in Rembang Regency, Central Java, Indonesia (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4482>)

Nyoman Suci Widyastiti, Ita Margaretha Nainggolan, Edward Kurnia Setiawan Limijadi, Meita Hendrianingtyas, Dwi Retnoningrum, Ariosta, Yetty Movieta Nancy, Mayasari Dewi, Sutamti, Tri Ratnaningsih, Usi Sukorini

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Mechanism of neurological deficit improvement through analysis in cerebral artery stenosis, Endothelial Progenitor Cells (EPC), Asymmetric Dimethylarginine (ADMA), Malondialdehyde (MDA), and Superoxide Dismutase (SOD) after balloon angioplasty procedure in ischemic stroke patients (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4485>)

Nasrul Musadir, Soetojo, Syahrul, Ketut Sudiana, Budi Utomo, Muhammad Hamdan, Fritz Sumantri Usman, Siti Pariani

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The effects of Curcuma Longa extract on fibroblast count and collagen density in left colon anastomosis with acute intra operative loss of 15% circulating blood volume in rats (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4487>)

Nasrul Haidi, Tomy Lesmana

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Effect of intravenous methylprednisolone on the degree of hepatic ischemia/reperfusion injury in class III hypovolemic shock conditions performed continuous clamping in rats (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4488>)

Suryo Wahyu Raharjo, Tomy Lesmana

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The Impact of COVID-19 after one year on the orthopedic spine service at the Orthopedic Center Hospital in Indonesia (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4489>)

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
Prognostic scoring system to predict mortality after surgery in resectable colorectal cancer (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4491>)

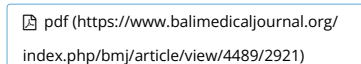
Alldila Hendy Prihanda Suryaningprang, Agi Satria



Pamudji Utomo, Hafizh Nur Santoso, Dykall Nafan Dzikri


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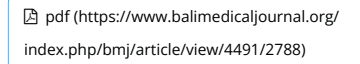
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Putranto, Luthfian Aby Nurachman

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
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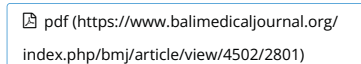
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Modification of BACAP score as a predictor of pancreatic carcinoma resectability at Dr. Cipto Mangunkusumo National Center Hospital Jakarta (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4502>)

Ahmad Ravles, Agi Satria Putranto, Dhanasari Vidiawati Trisna

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
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Diagnostic accuracy of hyponatremia as a biomarker of perforated appendicitis in pediatrics in Dr. Soetomo General Hospital, Surabaya (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4503>)

Bela Mayvani Rachman, I Gusti Bagus Adria Hasriastawa, Ariandi Setiawan

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
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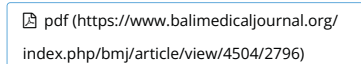
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BRCA 1 and 2 somatic mutation in high grade serous epithelial ovarian cancer in Indonesian women that was operated on Dr. Soetomo General Hospital, Surabaya in 2019-2021 (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4504>)

Jonathan Kevin Djuanda, Brahmana Askandar Tjokroprawiro, Grace Ariani

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
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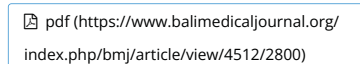
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Retrospective study on nasopharyngeal cancer (RENOCS): outcome management of in-hospital patients (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4512>)

Achmad Chusnu Romdhoni, Hayyu Fath Rachmadhan, Yufi Aulia Azmi, Faisal Yusuf Ashari, Astri Dewayani

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Prostate specific antigen-age volume score in predicting prostate cancer among the Indonesian population (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4517>)

Agus Rizal Ardy Hariandy Hamid, Putu Angga Risky Raharja, Fakhri Rahman, Chaidir Arif Mochtar, Rainy Umbas

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Different clinicopathological characteristics in Indonesian colorectal patients with RAS mutations and LC3 over-expression: a cross-sectional study (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4519>)

Rio Andreas, Reno Rudiman, Kiki Lukman, Bambang Am Am Setya Sulthana, Andriana Purnama, Mochammad Riskie Aditya Putra, Prapanca Nugraha, Etis Primastari

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Identification of tumor infiltrating lymphocyte CD8 in Indonesian colorectal cancer population: a cross-sectional study (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4520>)

Elit Irawan, Kiki Lukman, Nurhayat Usman, Bambang Am Am Setya Sulthana, Reno Rudiman, Deny Budiman, Prapanca Nugraha, Etis Primastari

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The relationship between parental risk factors with degree of severity in myopia (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4522>)

Marisa Surya Airlangga, Ria Sandy Deneska, Rozalina Loebis, Reni Prastyani

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Efficacy and safety of microsurgical varicocelelectomy with subinguinal and inguinal approaches: a systematic review and meta-analysis (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4528>)

Muhammad Wahyu Ali, Agung Ravi Saputra Sangadji, Yufi Aulia Azmi, Fikri Rizaldi, Dobby Moesbadianto Soebadi

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Comparison on the efficacy and safety of bipolar transurethral vaporization of the prostate (B-TUVP) with bipolar transurethral resection of the prostate (B-TURP) for benign prostatic hyperplasia (BPH): a systematic review and meta-analysis of randomized controlled trial (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4531>)

Made Adi Wiratama, Dimas Panca Andhika, Chi-Fai Ng, Lukman Hakim

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SOD2 and HIF-1 α expression in rat ovaries (Rattus norvegicus) administered with forest bee honey (Apis dorsata) following physical stress (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4532>)

Hani Plumeriastuti, Widjiati Widjiati, Annise Proboningrat, Mey Vanda Pusparina Sajida

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Efficacy and safety of topical doxycycline reduce MMP-9 expression towards populations with corneal alkali burn (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4533>)

Anindita Juwita

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Bevacizumab and triamcinolone acetonide intravitreal effect on Transforming Growth Factor Beta (TGF- β) and Plasminogen Activator Inhibitor-1 (PAI-1) expression in open globe injury model (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4534>)

Kautsar Abiyoga, Delfitri Lutfi, Yulia Primitasari, Citra Dewi Maharani, Clarisa Finanda, Wimbo Sasono, Nurwasis, Evelyn Komaratih, Joko Legowo

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Interobserver agreement and the role of smoothelin immunostain in the evaluation of Muscularis Propria (MP) invasion of Bladder Urothelial Carcinoma (BUC) (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4541>)

Ni Wayan Winarti, Ni Putu Sriwidnyani, Luh Putu lin Indrayani Maker, I Made Gotra, Ni Made Mahastuti, Tanaka, Silvia Kosashi, I Wayan Yudianta

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The comparison of GNRI versus HALP score as an outcome predictor in geriatric rectal cancer patients (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4550>)

Singgih Annas Fuadhi, Adeodatus Yuda Handaya, Nurcahya Setyawan, Agus Barmawi, Imam Sofii

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Endometrial thickness is a prognostic factor in endometrial carcinoma (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4552>)

Very Great Eka Putra, Teuku Mirza Iskandar

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Sequencing analysis of anti mullerian hormone in polycystic ovarian syndrome and primary ovarian insufficiency (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4556>)

Budi Ermanto, Fadilah, Anom Bowolaksono, Asmarinah, Tono Djuwantono, Aria Kekalih, Mila

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Correlation of serum D-dimer level and the event microvessel cardiac thrombosis observed on core biopsy in post mortem COVID-19 Patients in Dr. Soetomo Hospital Surabaya, Indonesia (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4568>)



Maidarti, Wisnu Ananta Kusuma, Budi Wiweko

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Achmad Lefi, Lalu Galih Pratama Rinjani, Muhammad Yusuf Alsagaff, Raden Mohammad Budiarto, Priangga Adi Wiratama, Etty Hary Kusumastuti, Isnin Anang Marhana, Alfian Nur Rosyid, Dwi Wahyu, Bambang Pujo Semedi, Ricardo Adrian Nugraha, Ryan Ernast Intan, Muhammad Ramadhan, Ika Caesarina, Asiyah Nurul Fadila, Muhammad Surya Tiyantara, Gilang Muhammad Setyo Nugroho, Ummi Maimunah, Edi Suyanto, Adhitri Anggoro, I Komang Rusgi Yandi, Jilieanastasia Godrace Lilihata

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The impact of social media marketing efforts on visit intention: a case study in Flodova Clinic, Dili, Timor Leste (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4570>)

Florindo Cardoso Gomes, Ferdi Antonio, Perpetua Ana Mery Estela Laot, Eva Estrelita Cardoso Gomes

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The effect of Mozart's classical music on blood pressure in Wistar white rats (*Rattus norvegicus*) (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4577>)

Rivans Jackson Tandirerung, Irwanto, Anak Agung Ngurah Krisna

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The correlation between serum matrix metalloproteinase-9 levels and the severity of coronary artery stenosis in patients with acute coronary syndrome (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4583>)

Rico Rasaki, Teuku Heriansyah, Muhammad Ridwan, Novita, Haris Munirwan

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Predictor of Mortality in Complicated Intraabdominal Infection Patients at Dr. Soetomo General Hospital Surabaya (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4584>)

Erwin Kurniawan, Marjono Dwi Wibowo, Edwin Danardono

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Human heart tissue mitochondria isolation: experience from patients with tetralogy of Fallot (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4599>)

Jefferson Kasan Hidayat, Aulia Widyaningrum, Nadila Amanda Zuliani, Franciscus Dhyangiri Suyatna, Ratna Farida Soenarto, Muljadi Muhammad Djer

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Effect of human granulosa cells vitrification on the expression of oocyte secreted factors (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4600>)


Batara Sirait, Budi Wiweko, R. Muharram, Ahmad Aulia Jusuf, Ichramsajah A. Rachman, Arief Boediono

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Posterior annulus elevation using pledget stitch: An adjuvant technique to improve the mitral valve coaptation in pediatric mitral valve repair (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4607>)

Budi Rahmat, Bambang Budi Siswanto, Dicky Fakhri, Indriwanto Sakidjan, Tri Wahyu Murni Sulisetyowati, Ina Susianti Timan, Aria Kekalih, Yovi Kurniawati, Putu Wisnu Arya Wardana, Dwi Gunawan Fardhani

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Comparison of the efficacy and safety of dorsal inlay graft urethroplasty (DIGU) method with tubularized incised plate urethroplasty (TIPU) method in primary distal hypospadias repair: a systematic review and meta-analysis (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4612>)

Ahmad Fauzan, Furqan Hidayatullah, Sirin Salsabila, Muhammad Rifki Setiawan, Rizka Fitriani, Hafizh Fanani Rizkyansyah, Ida Bagus Gde Tirta Yoga Yatindra, Johan Renaldo, Tarmono Djojodimedjo

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ORIGINAL ARTICLE

Analysis of donor hemoglobin levels at the blood transfusion service of Dr. Sardjito Hospital, Yogyakarta (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4617>)

Usi Sukorini, Galih Retno Martani, Teguh Triyono

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A double-blind, randomized controlled trial of hydroxychloroquine for cognitive dysfunction and antibody biomarkers in systemic lupus erythematosus patients (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4619>)

Bantar Suntoko, Suharyo Hadisaputro, Handono Kalim, Suyanto Hadi, Fenda Aditia

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Simvastatin: a new therapeutic strategy for Chronic Kidney Disease (CKD) (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4636>)

Putu Nita Cahyawati, I Nyoman Mantik Astawa, Bagus Komang Satriyasa, I Made Bakta

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Arachidonic acid pathway in proliferative vitreoretinopathy: the study of the vitreous biomarker in rhegmatogenous retinal detachment (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4637>)

Ari Djatikusumo, Andi Arus Victor, Heri Wibowo, Rina La Distia Nora, Alida Roswita Harahap, Rianto Setiabudy, Iwan Sovani, Seruni Hanna Ardhia, Ananda Kuku Adishabri

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Lactate dehydrogenase (LDH) and C-reactive protein (CRP) as a potential prognostic factor in metastatic bone disease (MBD) of proximal femur based on Harris hip score (HHS) underwent cephalomedullary nailing and bipolar hemiarthroplasty (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4714>)

I Gede Eka Wiratnaya, Sri Mahadhana, Andrew Sutheno, Leonardus William Kuswara, Nyoman Gede Grenata Nanda Ustriyana

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Development of novel wound dressing based collagen/chitosan/nigella sativa on blood leukocyte profile and malondialdehyde levels in incision wounds (<https://www.balimedicaljournal.org/index.php/bmj/article/view/5334>)

Ary Andini, Nastasya Nunki, Ersalina Nidianti, Devyana Dyah Wulandari, Sharida Fakurazi

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REVIEW

Topical nonsteroidal anti-inflammatory drugs in the prevention of pseudophakic cystoid macular edema following phacoemulsification: A systematic review (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4079>)

Ni Putu Ayu Pande Arista Dewi, Cokorda Istri Dewiyani Pemayun

Online First: May 27, 2023 |

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REVIEW

The role of stem cell secretome on spinal cord injury regeneration: a systematic review and meta-analysis (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4131>)

I Nyoman Semita, Dwikora Novembri Utomo, Heri Suroto

Online First: May 9, 2023 |

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 pdf (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4131/2762>)

REVIEW

The immune response of SARS-CoV-2 vaccine in population with obesity: a systematic review (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4170>)

Nur Arafah, Gatot Soegiarto, Laksmi Wulandari

Online First: May 9, 2023 |

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REVIEW

Impact of ability and willingness to pay for health insurance in Indonesia (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4273>)

Anwar Busyra, Roszita Ibrahim, Azimatun Noor



Aizzuddin, Nor Haty Hassan, Irwan Saputra

Online First: Jul 22, 2023 |



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pdf (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4273/2929>)

REVIEW

Efficacy of topical medroxyprogesterone acetate 1 % and topical doxycycline reduce MMP-9 and TGF- β 1 expression as corneal ulceration due to alkali burn: literature review (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4278>)

Anindita Juwita, Lukisiari Agustini, Rozalina Loebis, Ismi Zuhria, Ridholia, Christmawan Ardianto

Online First: May 1, 2023 |



Abstract

pdf (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4278/2746>)

REVIEW

Managing and diagnosing fibromyalgia in psychiatry (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4289>)

Popy Arizona, Yunias Setiawati

Online First: Apr 8, 2023 |



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REVIEW

The effect of bisphosphonate and platelet-rich plasma in anterior cruciate ligament reconstruction: an article review (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4292>)

Tangkas Sibarani, Bambang Purwanto, Ambar Mudigdo, Brian Wasita

Online First: May 9, 2023 |



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pdf (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4292/2790>)

REVIEW

Omega-3 intake and cachexia risk in cancer patients: systematic literature review (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4297>)

Fildzah Karunia Putri, Nabilah Farah Diba, Endah Budi Permana Putri

Online First: Jun 14, 2023 |



Abstract

pdf (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4297/2850>)

REVIEW

The role of Platelet Rich Fibrin (PRF) membrane and conjunctival autograft on TGF- β and collagen type 1 expression in conjunctival wound healing: a literature review (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4310>)

I Nyoman Ananta Karisma, Wimbo Sasono, Susy Fatmariyanti

Online First: May 17, 2023 |



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REVIEW

Effectiveness of relevant interventions with readiness for discharge in transitional care of low birth weight infants: a systematic review (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4314>)

Resti Utami, I Dewa Gede Ugrasena, Ernawati, Yuni

REVIEW

Intravitreal triamcinolone acetate and bevacizumab injection as prevention of proliferative vitreoretinopathy in open globe injury (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4339>)


Kautsar Abiyoga, Yulia Primitasari, Delfitri Lutfi



Sufyanti Arief, Wesiana Heris Santy


Online First: Apr 26, 2023 |

 Abstract

 pdf (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4314/2727>)

Online First: May 25, 2023 |

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REVIEW

Comparison of the efficacy of hot saline irrigation and tranexamic acid on Boezaart score, intraoperative blood loss, and duration of surgery in functional endoscopic sinus surgery: a systematic review and meta-analysis (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4362>)

Timmy Wibisono, Budi Sutikno, Titiek Hidayati Ahadiah, Budi Utomo, Citrawati Dyah Kenconowungu

Online First: May 1, 2023 |

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REVIEW

Epigallocatechin gallate effect on Interleukin-1 β and MMP-9 expression as Pseudomonas aeruginosa keratitis adjuvant therapy (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4382>)

Tarosa Yodia Urolita, Fariztah Sukainah Nur Fathimah, Annisa Karima, Nurwasis, Ismi Zuhria

Online First: May 27, 2023 |

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REVIEW

Platelet rich fibrin effect in MMP-9 and TIMP-1 expression as bacterial keratitis therapy (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4385>)

Oggy Satriya Putra, Nandang Sudrajat, Bimanda Rizki Nurhidayat, Luki Indriaswati, Yulia Primitasari

Online First: May 6, 2023 |

 Abstract

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REVIEW

Comparison of Cost-Effectiveness Analysis (CEA) between sevoflurane inhalation anesthetic and Propofol Total Intravenous Anesthesia (TIVA) in craniotomy surgery: a literature review (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4390>)

Petrus Devi Doko Rehi

Online First: Jun 8, 2023 |

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REVIEW

The role of Resveratrol as a neuroprotective agent in the prevention of retinal ganglion cell loss in ischemic reperfusion injury animal model: a literature review (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4449>)

Amelia Shinta Prasetya, Evelyn Komaratih, Wimbo Sasono, Mercia Chrysanti, Maria Debora Niken Larasati, I Ketut Sudiana

Online First: Jun 8, 2023 |



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REVIEW

Lupus nephritis and kidney transplantation: past, present and future (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4456>)

Dana Pramudya, Decsa Medika Hertanto, Afina Thara Pitaloka, Artaria Tjempakasari, Pranawa

Online First: Jun 8, 2023 |



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REVIEW

The roles of purple sweet potato anthocyanins in optimizing dietary intervention of metabolic dysfunction-associated fatty liver disease (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4483>)

Syuma Adhy Awan, I Dewa Nyoman Wibawa, I Made Jawi, Gde Ngurah Indraguna Pinatih, Agung Nova Mahendra

Online First: Jun 24, 2023 |



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REVIEW

Clinicopathological and Prognostic Significance of SRY-Box Transcription Factor 2 (SOX2) Overexpression in Central Nervous System Tumor: A Meta-Analysis (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4493>)

I Gede Aswin Parisya Sasmana, Sinta Wiranata, Komang Chandra Yogananda, Desak Made Wihandani, I Gede Putu Supadmanaba

Online First: May 29, 2023 |



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REVIEW

Obstetrical ballooning and avulsion of levator ani muscle after vaginal delivery: a literature review (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4514>)

Muhammad Nurhadi Rahman, Mochamad Rizkar Arev Sukarsa, Andi Rinaldi, Eppy Darmadi Achmad, Raden Mas Sonny Sasotya, Edwin Armawan, Herdifitrienne Saintissa Yanuaristi, Azura Nabila Putri

Online First: Jun 30, 2023 |



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pdf (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4514/2888>)

REVIEW

Determinants of patient satisfaction after total knee arthroplasty (TKA): a literature review (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4529>)

Anggi Dwi Putera, Muhamad Hasan, Muhammad Riyadli, Muhammad Nadlir Fakhry


REVIEW

Effect of platelet rich fibrin membrane on the expression of smooth muscle actin and transforming growth factor beta in corneal wound healing Pseudomonas aeruginosa keratitis patient: a literature review (<https://www.balimedicaljournal.org/index.php/bmj/>)



Online First: Jun 9, 2023 |

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article/view/4535)

Bimanda Rizki Nurhidayat, Nurwasis, Evelyn Komaratih

Online First: Jun 13, 2023 |

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REVIEW

Characteristics and outcomes amongst stroke patients in symptomatic and asymptomatic COVID-19: a systematic review (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4546>)

Dimas Bathoro Bagus Pamungkas, Viskasari Pintoko Kalanjati, Abdurrachman

Online First: Jul 18, 2023 |

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REVIEW

Mother's attitude to breastfeeding and its effect on oxytocin levels in mothers: a review article (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4574>)

Lalu Hamzi Fikri, Suryani As'ad, Mochammad Hatta, Saidah Syamsuddin, Hanung Prasetya, Martira Maddeppungeng, Aminuddin, Andi Alfian Zainuddin

Online First: Aug 9, 2023 |

 Abstract

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REVIEW

The potential of MLC901 as adjuvant therapy for traumatic spinal cord injury by multi-pathway biomechanism: a systematic review (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4606>)

Dewa Putu Wisnu Wardhana, Agung Bagus Sista Satyarsa, Rohadi Muhammad Rosyid, Husni Harmansyah, Tjokorda Gde Bagus Mahadewa, Andi Asadul Islam, I Made Jawi, Sri Maliawan

Online First: Jul 10, 2023 |

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REVIEW

Leucocytes, thrombocytes and immature platelets in patients with dengue hemorrhagic fever (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4613>)

Ahmad Fahrudi Setiawan, Yuyun Yueniwati Prabowowati Wajib, Kusworini Handono, Setyawan Purnomo Sakti

Online First: Jul 3, 2023 |

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Scopus Citedness (<https://balimedicaljournal.org/index.php/bmj/pages/view/scopus>)



(https://clustrmaps.com/site/1a4xh?utm_source=globe)



REVIEW

Effect of Asiatic acid and dexamethasone administration to interleukin (IL)-1 expression and number of mononuclear cells in extraocular muscle post-strabismus surgery (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4644>)

Intifada, Luki Indriaswati, Dicky Hermawan

Online First: Jul 22, 2023 |



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CASE REPORT

Transverse vaginal septum: a case report (<https://www.balimedicaljournal.org/index.php/bmj/article/view/3649>)

Hilwah Nora, Ima Indirayani, Rusnaidi, Heyza Damara Mutyara

Online First: Jul 12, 2023 |



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CASE REPORT

A successful pregnancy complicated with ovarian cyst torsion in the first trimester (<https://www.balimedicaljournal.org/index.php/bmj/article/view/3951>)

Ima Indirayani, Hilwah Nora, Roziana, Cut Rika Maharani, Rauzatul Jannah, Dara Meutia Ayu Febrina, Intan Chaharunia Mulya

Online First: Jul 12, 2023 |



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CASE REPORT

Chronic limb-threatening ischemia Rutherford VI, successful infra inguinal stenting: a case report (<https://www.balimedicaljournal.org/index.php/bmj/article/view/3962>)

Putri Oktaviani Zulfa, Yopie Afriandi Habibie

Online First: May 12, 2022 |



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CASE REPORT

The outcome of leprosy associated asthma in pregnancy: a case report (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4081>)

Roziana, Hilwah Nora, Ima Indirayani, Cut Rika Maharani, Akmal Sujudi

Online First: Apr 29, 2023 |



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CASE REPORT

Progressive ovarian sertoli - leydig cell tumor: case report (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4095>)

Juanda Raynaldi, Hasanuddin, Sarah Ika Nainggolan, Munizar

Online First: Apr 29, 2023 |



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CASE REPORT

Efficacy of 1064nm neodymium-doped yttrium aluminum garnet (Nd: YAG) laser and 2940nm fractional erbium laser for severe acne with acne scar: a case report (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4107>)

Ninda Sari, Fitria Salim, Meutia Sara, Elfa Wirdani Fitri, Mikyal Bulqiah

CASE REPORT

Prediction of criminal profiles based on forensic medical investigations in Banda Aceh, Indonesia (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4125>)


Taufik Suryadi, Kulsum

Online First: May 25, 2023 |




Online First: May 23, 2023 |

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CASE REPORT

Cryptococcal meningoencephalitis in an immunodeficiency virus positive patient coinfecting with tuberculosis (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4180>)

Hendy Wirantara, Musofa Rusli, Muhammad Vitanata Arfijanto, Bramantono

Online First: May 8, 2023 |

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
CASE REPORT

A patient with large ostium primum atrial septal defect who underwent open heart surgical closure with pericardial patch: a case report (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4223>)

Starry Homenta Rampengan, Christina Ayu Ariani Rosmaningtyas

Online First: Jun 19, 2023 |

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CASE REPORT

Successful treatment of severe subaortic stenosis with left ventricular dysfunction in children (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4234>)

Enny Karyani, Mahrus Ahmad Rahman, I Ketut Alit Utamayasa, Taufiq Hidayat, Teddy Ontoseno

Online First: Jul 27, 2023 |

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CASE REPORT

A Stevens-Johnson syndrome due to rifampicin in a patient with acquired immune deficiency syndrome (AIDS) and pulmonary tuberculosis (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4249>)

Aiza Dwitri Aninditya, Ari Baskoro

Online First: May 10, 2023 |

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CASE REPORT

Successful coronary artery fistula closure using Amplatzer duct occluder II device in a 10-months-old infant (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4274>)

Aulia Faisal, Taufiq Hidayat, Mahrus Ahmad Rahman, Alit Umayasa

Online First: Jul 27, 2023 |

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CASE REPORT

A-39 year old, nulligravida woman with giant leiomyomas: a case report (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4275>)

Endy Cahyono, Teuku Mirza Iskandar, Ediwibowo Ambari, Very Great Eka Putra, Lubena, I Made Prasetya Wardana

Online First: Apr 25, 2023 |

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CASE REPORT

Workplace interventions to overcome stigma

CASE REPORT

A patient with acute fatty liver of pregnancy




and depression in patients with Multiple drug-resistant tuberculosis (MDR TB) (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4287>)

Feytie Magda Mawey, Azimatul Karimah, Tutik Kusmiati

Online First: Apr 28, 2023 |

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(AFLP) with acute pancreatitis manifestations (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4288>)

Megawati Rif'atyyah Nozomi Guntur, Ulfa Kholili

Online First: May 10, 2023 |

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CASE REPORT

A case report of a woman with SLE and lupus enteritis as the first manifestation of active systemic lupus erythematosus (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4291>)

Fitria Yulistiawati, Awalia

Online First: Apr 17, 2023 |

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CASE REPORT

Non-motor seizure diagnosed after mild traumatic brain injury: a case report (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4402>)

Drestha Pratita Windriya, Reryd Arindany Wiryawan, Wardah Rahmatul Islamiyah, Abdulloh Machin

Online First: Apr 30, 2023 |

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CASE REPORT

Subcutaneous emphysema and pneumocephalus following Ventriculoperitoneal Shunt (VPS) surgery for hydrocephalus: a case report (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4455>)

Muhammad Arifin Parenrengi, Muhammad Wildan Hakim, Wihasto Suryaningtyas

Online First: Jul 4, 2023 |

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CASE REPORT

Chronic dialysis patient with severe secondary hyperparathyroidism undergoing parathyroidectomy in Indonesia: a case series (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4460>)

Adaninggar Nariswari, Kevin Tandarto, Aditiawardana

Online First: Jul 10, 2023 |

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CASE REPORT

Inadequate treatment in a patient with minimal change disease (MCD) nephrotic syndrome: a case report (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4474>)

Alifatul Maslachah, Dana Pramudya, Pranawa, Widodo, Nunuk Mardiana, Artaria Tjempakasari

Online First: Jun 24, 2023 |

CASE REPORT


A rare case surgery repair for pediatric sphenothmoidal encephalocele with single-step transfrontobasal approach (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4476>)

Dicky Lukman Rangkuti, Muhammad Arifin Parenrengi, Wihasto Suryaningtyas

Online First: Jul 4, 2023 |



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CASE REPORT

A case report of Apert syndrome (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4481>)


Nugraha Wahyu Cahyana

Online First: Jun 25, 2023 |

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 Abstract

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CASE REPORT

Brunner's gland hyperplasia as a cause of gastric outlet obstruction in a seven year old boy (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4484>)

Ni Nyoman Metriani Nesa, Andy Darma, Alpha Fardah Athiyah, IGM Reza Ranuh, Khadijah Rizky Sumitro, Subijanto Marto Sudarmo

Online First: May 16, 2023 |

 Abstract

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CASE REPORT

Diagnosis of high-grade prostate cancer in patients with unexpectedly low prostate specific antigen levels: a rare case series (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4486>)

Ahmad Fauzan, Wahjoe Djatisoesanto

Online First: May 29, 2023 |

 Abstract

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CASE REPORT

Effects of misoprostol as a drug to induce abortion in the second trimester: a forensic case report (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4509>)

Arfi Syamsun, Jaury Sutjiyanto, Elita Rahma, Rina Masadah, Husni Cangara, Berti Julian Nelwan

Online First: Jun 25, 2023 |

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CASE REPORT

Shunt fracture as ventriculoperitoneal shunt complication in pediatric: a case series (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4524>)

Fachriy Balafif, Muhammad Arifin Parenrengi, Wihasto Suryaningtyas

Online First: Jul 10, 2023 |

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CASE REPORT

Successful treatment of superior vena cava syndrome due to internal jugular vein thrombosis in a 55-year-old man with comorbid diabetes mellitus type 2 and pneumonia (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4538>)

Rezdy Tofan, Shinta Oktya Wardhani, Arif Rahman Nurdianto

Online First: May 31, 2023 |

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CASE REPORT

Telerehabilitation of spinal cord injury in

CASE REPORT

Scleromalacia perforans in young patient: a



limited resources setting during COVID-19 pandemic: A case report (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4555>)

Azharuddin, Diaz Novera

Online First: Jul 11, 2023 |



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unique case (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4560>)

an unique case
Annisa Karima, Delfitri Lutfi, Awalia, Ismi Zuhria

Online First: Jun 12, 2023 |



Abstract

pdf (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4560/2836>)

CASE REPORT

Penetrating brain injury from an accidental air gun shot: a case report (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4571>)

Sri Maliawan, Steven Awyono, Eufрата Silvestris Junus, Bagus Dwiki Arya Dharmas, Tjokorda Gde Bagus Mahadewa

Online First: Jul 20, 2023 |



Abstract

pdf (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4571/2926>)

CASE REPORT

Complete recovery of interhemispheric subdural empyema extending to cerebellar tentorium treated with antibiotics as unimodal therapy: a case report and controversial literature review (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4633>)

Fadia Hasna Thohari, Paulus Sugianto, Djohan Ardiansyah

Online First: Aug 8, 2023 |



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pdf (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4633/2924>)

RESEARCH LETTER

PD-L1 overexpression in prostate cancer: a potential targeted therapy (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4506>)

Gede Andi Aditya, Yurisal Akhmad Dany, Raden Danarto, Indrawarman Soeroharjo, Ahmad Zulfan Hendri

Online First: Jul 31, 2023 |



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EDITORIAL

“The First Mulawarman International Conference on Tropical Public Health” (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4526>)

Committee of 1ST MICTOPH 2022

Online First: Jun 1, 2023 |



Abstract

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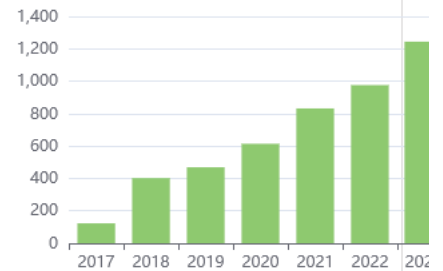
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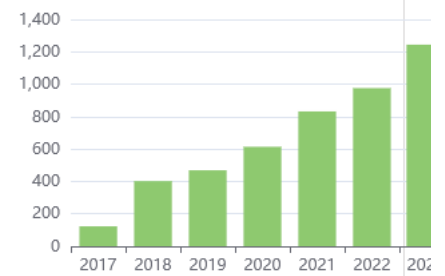
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