

## Phytochemical screening and evaluation of glucose-6-phosphate dehydrogenase activity of fermented honey-garlic in hypothyroidism rats



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### ABSTRACT

**Introduction:** Hypercholesterolemia is an indicator of atherosclerosis in blood vessels and is currently a top priority in overcoming health problems, especially non-communicable diseases in developed and developing countries. Thyroid hormones regulate various metabolic processes in the body including synthesis, mobilization, and lipid degradation. A lack of thyroid hormone in the body or called hypothyroidism will decrease the number of LDL receptors in the liver. This causes an increase in plasma LDL levels which also increases total cholesterol levels. Despite the lack of study, Fermented Honey-Garlic (FHG) is now widely developed for its high antioxidant activity. This study aims to determine the content of bioactive compounds in FHG by qualitative secondary metabolite testing and GC-MS analysis and to evaluate the activity of the enzyme glucose-6-phosphate dehydrogenase (G6PD) in rats with hypothyroidism.

**Method:** Rats were grouped into 6 groups: positive control group induced by propylthiouracil (PTU) with a dose of 20 mg/day, negative control treated with distilled water, treatment group with a dose of FHG 0.2 g/kg BW (P1), treatment group with a dose of FHG 0.5 g/kg BW (P2), treatment group with a dose of FHG 1 g/kg BW (P3) and standard drug Simvastatin group with the dose 0,18 mg/day/200 g BW.

**Results:** Results showed that FHG contained flavonoid compounds, alkaloids, tannins, and saponins, and statistical results showed that the significance value for G6PD activity was 0.014 ( $P < 0.05$ ).

**Conclusion:** Therefore, it can be concluded that FHG administration yields a significant effect on G6PD levels.

**Keywords:** *Fermented Honey-Garlic, Hypercholesterolemia, Hypothyroidism, Glucose-6-phosphate dehydrogenase.*

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### INTRODUCTION

Lipid metabolism is significantly impacted by thyroid malfunction, which can appear as overt or subclinical hypothyroidism. This results in hypercholesterolemia, which progressively raises the risk of cardiovascular disease and, possibly mortality. Dyslipidemia in hypothyroidism is mostly brought about by an increase in the rate of synthesis rather than breakdown, with the elevated levels of total cholesterol (TC), particularly low-density lipoprotein cholesterol (LDL-C), serving as the substrate for lipid peroxidation by reactive oxygen species (ROS), which causes oxidative stress.<sup>1</sup> According to earlier research, hypercholesterolemic patients have greater prevalences of

overt hypothyroidism than the general population (4.3%) and subclinical hypothyroidism than the general population (11.1%). Cardiovascular disease and mortality were more likely in persons with overt and subclinical hypothyroidism who had serum thyroid stimulating hormone (TSH) levels greater than 10 mIU/L.<sup>2</sup> Genetic variables are a significant component of the non-modifiable determinants and earlier epidemiological research, as well as animal models, have revealed that the lack of the glucose-6-phosphate dehydrogenase enzyme may work as a preventive measure against cardiovascular disease (CVD). This enzyme, however, can yield negative physiological effects in response to increased oxidative stress acting as

a cardiovascular risk factor.<sup>3</sup> This was according to recent evidence from animal models, ex-vivo studies on cells isolated from deficient subjects, in vitro studies where deficiency was induced by gene silencing, and large human cohorts.<sup>4</sup>

The enzyme (G6PD) aids cells in preventing oxidative stress, which is characterized by an imbalance between enzymatic and nonenzymatic antioxidant defense and the generation of reactive oxygen and nitrogen species (RONS). G6PD performs a variety of tasks, one of which is helping glutathione reductase regenerate reduced glutathione (GSH) from its oxidized version, oxidized glutathione (GSSG). Major endogenous antioxidant GSH defends cells from oxidative damage in several ways. Theoretically, G6PD-

deficient activity and resulting reduced GSH levels make cells more vulnerable to oxidative stress.<sup>5</sup> Amino acids, organic materials, vitamins, enzymes, minerals, and aromatics are among the substances found in honey. Flavonoids and phenolic acids, which serve as natural antioxidants, are also in honey.<sup>6</sup> On the other hand, another natural substance known for its antioxidant properties is garlic.

One of the common uses of single garlic (*Allium sativum* L. Var. Solo Garlic) in the community is as a seasoning for food and a folk remedy. Single garlic possesses antibacterial, antifungal, antihypertensive, antioxidant, hypoglycemic, and anti-aggregation properties. Vitamin C, selenium, allicin, polar phenolic compounds, steroids, essential oils, tannins, alkaloids, saponins, and diallyl disulfide are among the chemicals in garlic that exhibit antioxidant potential.<sup>7</sup> Additionally, it is thought that single garlic can help people recover from strokes and infectious infections. Single garlic has a relatively higher herb efficacy than regular garlic. Allicin and saponins, which are the active components of single garlic, have antibacterial properties. Both of these compounds can prevent cholesterol synthesis, which results in blood vessel obstruction.<sup>8</sup> Honey fermented using single garlic is starting to be widely used but still not much researched. Therefore, this study aimed to determine the content of bioactive compounds in fermented honey-garlic (FHG) and evaluate G6PD levels in hypothyroid rats.

## MATERIALS AND METHODS

### Materials

The tools used are experimental animal cages, centrifuge, UV-Vis spectrophotometer Sinnowa bs 3000p, micropipette, water bath, Easy Touch GCU (glucose, cholesterol, and uric acid), blood cholesterol strip, blood cholesterol test chip, 3cc syringe. The materials used were forest honey obtained from honey breeders, single garlic (*Allium sativum* L), propylthiouracil (PTU), and trichloroacetic acid (TCA) 5%.

### Data collection procedures

#### Making fermented honey-garlic (FHG)

Fermented honey was made at the Laboratory of the University of Nahdlatul Ulama Surabaya. 8-10 single garlic was crushed and put in a clean glass bottle. It was mixed with forest honey until completely submerged. The mixture was then stored at room temp for 3 days. Honey can be considered fermented well if it released gas every few days. The fermented honey was stored at room temperature.

#### Analysis of Phytochemical Compound

- Tannin Test:** Samples of FHG were homogenized with up to 2-3 drops and 3-5 drops of 0.1 percent  $\text{FeCl}_3$ , and the color changed to a greenish-yellow or greenish-brown hue, which was deemed positive (+) for tannin components.<sup>9</sup>
- Saponin Test:** 10 ml of the FHG was added to 5 ml of distilled water, and the mixture was shaken until foam appeared. 3-5 drops of olive oil were added, and the mixture was shaken again. If there was still foam and it did not go away, the substance was deemed positive (+) for saponin compounds.
- Flavonoids Test:** FHG sample was added with 1 mL of 10% Pb Acetate solution, and in the second method, the research sample was added with 20% NaOH. The test results obtained showed positive results in both samples after the addition of Pb Acetate was indicated by the formation of a yellow precipitate, while positive results containing flavonoids after the addition of NaOH were indicated by the formation of a yellow solution.
- Terpenoid Test:** 50-100 mg of FHG was placed on a drip plate, and acetic acid was added until all samples were immersed. This procedure was let to sit for 15 minutes, after which 6 drops of the solution were transferred into a test tube, along with 2-3 drops of concentrated sulfuric acid. The intensity of the resulting color was employed as a comparative indicator of the triterpenoid and steroid content in the sample after the color shifting was observed. The emergence of a reddish-orange or purple tint is a sign that triterpenoids are present.<sup>10</sup>

- Alkaloid Test:** FHG sample contained alkaloid compounds with the formation of a white precipitate after the addition of the Mayer reagent and an orange precipitate after the addition of the Dragendorff reagent

#### Preparation of experimental animals

An entirely randomized post-test design was used in this experimental study. The total sample in this study was 30 male Wistar rats and all rats were adapted in the medical laboratory of the Faculty of Medicine of the Universitas Nahdlatul Ulama Surabaya. After the adaptation of the rats to a healthy state, they were then divided into 6 groups based on the treatment to be given, and each group consisted of 6 white rats.<sup>11</sup>

#### Treatment of the condition of hypothyroidism

The positive control group (K+), standard drug group, and test group (P1, P2, and P3), were treated with hypothyroidism condition by induction of propylthiouracil (PTU) at a dose of 20 mg/day for 14 days. To determine the condition of the experimental animals, each rat will be examined for blood cholesterol levels using Easy Touch GCU (Glucose, cholesterol, and Uric Acid) by taking blood from the tail of the rat. Rats are considered to have hypercholesterolemia when blood cholesterol levels are > 54 mg/dL. The negative control group (K-) was not given any treatment because conditioned in good health, while the control positive (K+) was not treated with fermented honey so it was assumed as the sick group without treatment. Measurement of cholesterol levels before treatment was carried out after PTU induction for 14 days, while measurements of cholesterol levels after treatment were carried out after treatment groups P1, P2, and P3 were given FHG every day for 14 days.

#### Standard drug treatment

The standard drug used in this study was simvastatin. The dose used for hypercholesterolemic humans is 10 mg/day. The dose of simvastatin after conversion for white rats (*Rattus norvegicus*) based on the Laurence and Bacharach conversion table quoted by

Haznam (1976) was: 10 mg/day x 0.018 = 0.18 mg/day/200 g BW.

#### Treatment of fermented honey on experimental animals

Rats indicated for hypercholesterolemia in the test group were treated with fermented honey at three different doses the difference is treatment group with a dose of FHG 0.2 g/Kg BW (P1), the treatment group with a dose of FHG 0.5 g/Kg BW (P2), treatment group with a dose of FHG 1 g/Kg BW (P3) every day for 14 days. A total cholesterol test was performed using Easy Touch GCU.

#### Measurement of G6PD levels

After treatment, the rats were killed under ketamine injection. The chest and abdomen were smeared with 70% alcohol and surgery were performed to obtain the blood. The blood sample was drawn with a syringe right at the heart and placed in an EDTA tube. Hemolysate is made by 40 $\mu$ l EDTA blood, added by 400 $\mu$ l Pz solvent, and centrifuged at 3000 rpm for 10 minutes. This step was performed in triplicate, then The precipitate was added by 100 $\mu$ l Sol, then stored in the refrigerator at 4°C for 15 minutes. Afterward, it was centrifuged at 3000 rpm for 10 minutes, discarding the supernatant and the precipitate was hemolysate. G6PD levels were calculated using a spectrophotometer at a wavelength of 340 nm.

#### Data analysis

Analysis of research results from quantitative data presented statistically with SPSS (Statistical Product and Service Solution). The data were analyzed statistically using a non-parametric test, namely by Kruskal Wallis.

## RESULT

#### Analysis of Phytochemical Compound

A phytochemical test is a preliminary test used to identify secondary metabolites in a sample. Phytochemical screening consists of several tests, namely the test for alkaloids, flavonoids, tannins, steroids, and saponins. The results obtained are presented in Table 1 below.

Phytochemical screening results showed that fermented honey garlic

contains alkaloids, flavonoids, tannins, steroids, and saponins

#### Examination of Cholesterol Levels After FHG Administration

Based on the results of the examination using an Enzymatic photometer, the administration of fermented honey can

reduce cholesterol levels in rats as shown in Table 2 below.

In the administration of FHG, the results showed a significant decrease in cholesterol levels in hypercholesterolemic rats as indicated by the results of paired t-test analysis with a p-value of 0.003 (P<0.05).

**Table 1.** Result of phytochemical screening

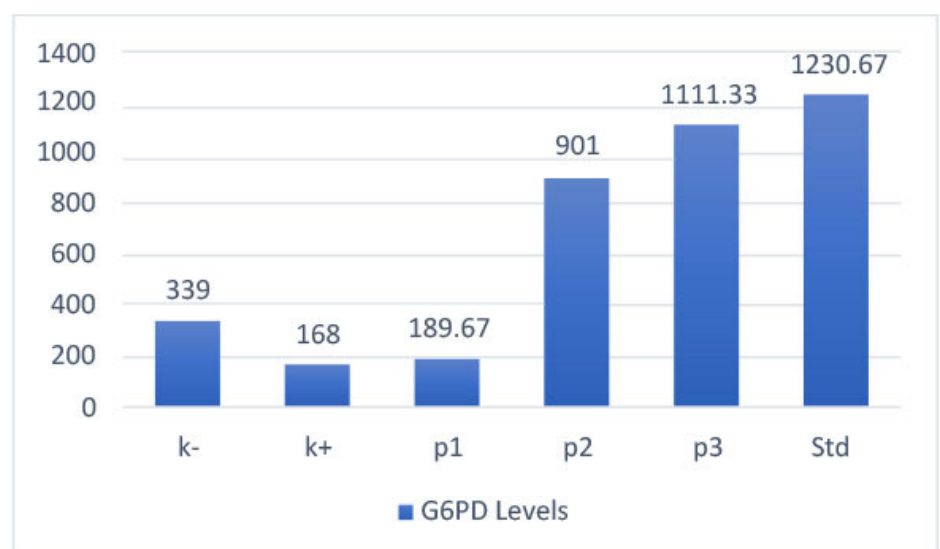
No	Phytochemical screening	Result
1	Alkaloids	+
2	Flavonoids	+
3	Tannins	+
4	Saponins	+
5	Steroids	+

**Table 2.** Cholesterol level before and after treatment FHG

Groups	Cholesterol Level before treatment (mg/dL)	Cholesterol Level after treatment (mg/dL)	P Value
K-	55.00 $\pm$ 10.42	50.00 $\pm$ 13.92	0.003 (P<0.05)
K+	136.75 $\pm$ 9.25	62.00 $\pm$ 6.71	
P1	131.25 $\pm$ 8.53	41.00 $\pm$ 5.09	
P2	123.00 $\pm$ 5.71	44.75 $\pm$ 13.50	
P3	117.50 $\pm$ 9.57	51.25 $\pm$ 10.40	
Std	120.25 $\pm$ 6.60	48.75 $\pm$ 8.92	

**Table 3.** Result of G6PD levels

Groups	G6PD levels $\pm$ SD (mU/g Hb)	P Value
K-	339.00 $\pm$ 115.77	0.014 (P<0.05)
K+	168.00 $\pm$ 79.95	
P1	189.67 $\pm$ 98.99	
P2	901.00 $\pm$ 519.76	
P3	1111.33 $\pm$ 745.07	
Std	1230.67 $\pm$ 219.76	



**Figure 1.** Graphical increasing of G6PD levels (mU/g Hb).

### Examination of G6PD Levels

Based on the results of the examination using the Sinnova BS3000P Photometer, the administration of FHG can increase G6PD levels in hypercholesterolemic rats as shown in Table 3 above.

Based on the data in the table above shows that the administration of FHG can increase G6PD levels significantly with a P value of 0.014 ( $P < 0.05$ ).

### DISCUSSION

Based on Table 1, the samples of FHG obtained positive (+) results in all tests, namely the test alkaloids, flavonoid tests, tannins, steroids, and saponins. To determine the effect of the fermentation process on the content of secondary metabolite compounds in forest honey samples in this study, a qualitative test was carried out namely phytochemical screening. This test consists of several assays, namely alkaloids, flavonoids, tannins, steroids, and saponins. The alkaloid test was carried out using two types of reagents, namely Mayer's reagent and Dragendorff's reagent. The test results obtained showed that the sample contained alkaloid compounds with the formation of a white precipitate after the addition of the Mayer reagent and an orange precipitate after the addition of the Dragendorff reagent. The principle of this analytical method is the precipitation reaction that occurs due to a reaction between nitrogen atoms which has a lone pair of electrons of the alkaloids that can replace with iodine ion. Positive results for alkaloids in Mayer's test are indicated by the formation of a white precipitate, which is a potassium-alkaloid complex. The nitrogen in the alkaloid is predicted to react with the metal ion  $K^+$  from potassium tetraiodomercurate(II) in Mayer's reagent alkaloid test to generate a precipitated potassium-alkaloid complex. Dragendorff's test for alkaloids showed positive results when a light brown to yellow (orange) precipitate formed. The precipitate is a potassium alkaloid. In the alkaloid test with Dragendorff's reagent, nitrogen is used to form a coordinate covalent bond with  $K^+$ . In the flavonoid test on FHG samples, tests were carried out using 2 types of reagents, namely Pb Acetate and NaOH. In the first method,

the FHG sample was added with 1 mL of 10% Pb Acetate solution, and in the second method, the research sample was added with 20% NaOH. The test results obtained showed positive results in both samples after the addition of Pb Acetate was indicated by the formation of a yellow precipitate, while positive results containing flavonoids after the addition of NaOH were indicated by the formation of a yellow solution. In the tannin test, the FHG sample was tested using  $FeCl_3$  reagent to determine whether there was a phenol group in the sample. The presence of a phenol group is indicated by a blackish-green or dark blue color after being added with  $FeCl_3$ . The results of this study obtained positive results which were indicated by the formation of a dark green or blue color which indicated the formation of a complex compound between tannins and Fe which indicated a strong green, red, purple, blue, or black color change. The steroid test on the FHG sample was based on the ability of the steroid compound to form a color with concentrated  $H_2SO_4$  in a hydrochloric acid solvent. The results showed positive results which were indicated by the formation of a blue/greenish-blue ring. A glycolic acid is a polar group that faces outward in saponins, whereas steroid and triterpenoid groups are nonpolar groups that face inward. When shaken with water to create foam, both of these groups can produce micelles because they are both active on the surface. The presence of glycosides with the capacity to create foam in water, which is digested into glucose and other compounds, is indicated by the presence of foam.<sup>12</sup> The research by Poernomo and Ma'ruf (2020) found that the phytochemical screening test on garlic produced positive results containing active components, such as flavonoids, alkaloids, phenolics, and tannins. The data from this research are in line with past research.<sup>13</sup>

This study discusses the results of the test to prove the effect of FHG on Glucose 6 Phosphate Dehydrogenase (G6PD) levels in a hypothyroid state which is characterized by high cholesterol/hypercholesterolemia levels. Based on the results in Table 1 the average high cholesterol levels were observed in the positive control group, this it can be said that the rats had hypothyroidism. This

occurs because the administration of PTU inhibits thyroid hormone synthesis. Thyroid hormone induces an increase in the number of LDL receptors, therefore cholesterol levels increase.<sup>14</sup> Previous research explained that administration of Rosa piriformis fruit extract increased the activity of Glucose 6-phosphate dehydrogenase (G6PD) significantly compared to the control ( $p < 0.001$ ). This study concluded that this extract may reduce the inhibitory impact of streptozotocin on enzyme activity.<sup>15</sup>

Based on the results in Figure 1 shows that the higher the dose of fermented honey, the higher the levels of G6PD. Fermented honey contains ingredients derived from single garlic and honey. Honey contains chemical compounds that act as antioxidants, namely phenolic acids and flavonoids. The main composition of phenolic acids and flavonoids in honey consists of coumaric acid, isorhamnetin, chrysin, quercetin, galangin, luteolin, ellagic acid, gallic acid, syringic acid, benzoic acid, cinnamic acid, ferulic acid, myricetin, chlorogenic acid, caffeic acid, hesperetin, and cinnamic acid.<sup>15</sup> These antioxidant properties can reduce the effect of intracellular ROS and stabilize G6PD levels. Single garlic is one of the spices that is believed to have many benefits, one of which is having antioxidant properties. The polyphenol content found in single garlic can be directly related to antioxidant activity.<sup>16</sup> Antioxidant substances such as flavonoids and polyphenols are known to increase the production of G6PD.<sup>16</sup> Based on table 3 showed that there is a significant difference between all of the groups on G6PD levels with the P value was 0.014 ( $P < 0.05$ ). It means that FHG has a significant effect in increasing G6PD levels because of its bioactive compounds such as flavonoids, alkaloids, tannins, steroids, and saponin.

### CONCLUSION

Based on the results on G6PD levels in hyperthyroid rats that were administered with FHG, the P value was 0.014 ( $P < 0.05$ ). It can be concluded that the administration of FHG has a significant effect on G6PD levels because of its bioactive compounds such as flavonoids, tannins, alkaloids, steroids, and saponins.

## AUTHOR CONTRIBUTION

All authors contributed to this research starting from the stage of conception and design, collection, analysis, and interpretation of data, preparation of articles, submission, and article revision, as well as proofreading article.

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## CONFLICT OF INTEREST

The authors have no conflicts of interest regarding this investigation.

## ETHICAL CONSIDERATION

Universitas Nahdlatul Ulama Surabaya's Ethics Council for Health Research has deemed this study to be ethical with the number 102/EC/KEPK/UNUSA/2022.

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
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**Effects of diabetes mellitus regulation on antibody response to inactivated virus vaccine: a systematic review (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4171>)**

Dewi Prasetyaningtyas, Gatot Soegiarto, Laksmi Wulandari

Online First: May 8, 2023 |

 Abstract

 pdf (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4171/2758>)

ORIGINAL ARTICLE

**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>)**

Yusuf Rizal, Mouli Edward, Tri Wahyu Martanto, Heri Suroto

Online First: May 10, 2023 |

 Abstract

 pdf (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4333/2765>)

ORIGINAL ARTICLE



**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

Online First: Jul 4, 2023 |

 Abstract

 pdf (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4450/2895>)

ORIGINAL ARTICLE

**Activity of enzyme Esterase, Glutathione S Transferase and Inorganic Substance of Dengue vector *Aedes aegypti* larvae against *Lansium domesticum* leave extract and fractionation (<https://www.balimedicaljournal.org/index.php/bmj/article/view/3946>)**

Devita Febriani Putri, Ismail Husna, Mala Kurniati, Annisa Primadiamanti

Online First: Apr 12, 2023 |

 Abstract

 pdf (<https://www.balimedicaljournal.org/index.php/bmj/article/view/3946/2685>)

ORIGINAL ARTICLE

**Whole-genome-scale analysis of circulating SARS-CoV-2 during the first COVID-19 wave in an international tourist destination, Bali, Indonesia (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4211>)**

Sri Masyeni, Duwi Sumohadi, Krisna Duta, Ida Ayu Mahayani, Komang Parwata, Agus Eka Darwinata, Harapan

Online First: May 8, 2023 |

 Abstract

 pdf (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4211/2913>)

ORIGINAL ARTICLE

**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

Online First: Apr 17, 2023 |

 Abstract

 pdf (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4296/2699>)

ORIGINAL ARTICLE

**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

Online First: May 6, 2023 |

 Abstract

 pdf (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4472/2753>)

ORIGINAL ARTICLE

**SOD2 and HIF-1 $\alpha$  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

Online First: Jun 12, 2023 |

 Abstract

 pdf (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4532/2838>)

ORIGINAL ARTICLE

**Effect of isothiocyanate therapy on trophoblast cell culture-hyperglycemia atmosphere against Tumor Necrosis Factor-  $\alpha$  (TNF- $\alpha$ ) and Transforming Growth Factor-  $\beta$  (TGF- $\beta$ ) levels** (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4016>)

Harry Kurniawan Gondo

Online First: Apr 13, 2023 |

 Abstract

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ORIGINAL ARTICLE

**Mirror therapy combined with flashcards on the extremity function and stages of self-acceptance of stroke patients** (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4225>)

Maria Magdalena Purba, Christine Aden, Mars Khendra Kusfriyadi

Online First: May 11, 2023 |

 Abstract

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ORIGINAL ARTICLE

**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



Online First: Apr 17, 2023 |

 Abstract

 pdf (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4303/2696>)

ORIGINAL ARTICLE

**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

Online First: Jul 5, 2023 |

 Abstract

 pdf (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4480/2894>)

ORIGINAL ARTICLE

**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 Sriwidyani, Luh Putu Iin Indrayani Maker, I Made Gotra, Ni Made Mahastuti, Tanaka, Silvia Kosashi, I Wayan Yudiana

Online First: Jul 10, 2023 |

 Abstract

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ORIGINAL ARTICLE

**The influence of social media on the treatment and psychosocial of acne vulgaris patient (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4076>)**

Kristin Stephanie, Nelva Karmila Jusuf, Imam Budi Putra

Online First: May 23, 2023 |

 Abstract

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ORIGINAL ARTICLE

**More is better than less analgesic after total knee replacement in geriatric patient. Is it a myth? (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4251>)**

Cery Tarise Hajali, Komang Agung Irianto, Kukuh Dwiputra Hernugrahanto

Online First: Jun 19, 2023 |



 Abstract

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ORIGINAL ARTICLE

**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>)**

I Wayan Sudarsa, Nyoman Diwiya

Online First: Apr 12, 2023 |

 Abstract

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ORIGINAL ARTICLE

**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 Djuwantonno, Aria Kekalih, Mila Maidarti, Wisnu Ananta Kusuma, Budi Wiweko

Online First: Jun 29, 2023 |

 Abstract

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ORIGINAL ARTICLE

**Community behavioral change and attitudes on the health protocol during the Covid-19 vaccination period and level 1 restriction (PPKM) (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4269>)**

Reny Sulistyowati, Khoirunnisa, Vissia Didin Ardiyani, Syam'ani

Online First: May 6, 2023 |

 Abstract

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
ORIGINAL ARTICLE

**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

Online First: Apr 26, 2023 |

 Abstract

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ORIGINAL ARTICLE

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

Marisa Surya Airlangga, Reni Prastyani, Nurwasis, Hani Plumeriastuti, Budi Utomo

Online First: Apr 28, 2023 |

 Abstract

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ORIGINAL ARTICLE

**The role of mean platelet volume (MPV) and platelet distribution width (PDW) pre-operating as sepsis indicators in laparotomy patients in Dr. Zainoel Abidin Hospital Banda Aceh, Indonesia (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4116>)**

Darul Ilham, Dian Adi Syahputra, Muhammad Yusuf

Online First: Apr 29, 2023 |

 Abstract

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ORIGINAL ARTICLE

**A comparison of otoacoustic emissions examination results as early hearing screening in normal and infants at risk of hearing loss (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4280>)**

Rosa Falerina, Puguh Setyo Nugroho, Nyilo Purnami, Fatimah Azizah Salsabila

Online First: May 23, 2023 |

 Abstract

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ORIGINAL ARTICLE

**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

Online First: Jun 21, 2023 |

 Abstract

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ORIGINAL ARTICLE

**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

Online First: Jun 23, 2023 |

 Abstract

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ORIGINAL ARTICLE

**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, Ichramsjah A. Rachman, Arief Boediono

Online First: Jul 5, 2023 |

 Abstract

 pdf (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4600/2899>)


ORIGINAL ARTICLE

**The difference of depression level in pregnant women based on the acceptance of pregnancy during the COVID-19 pandemic: a study on pregnant women in Bontang, East Kalimantan (<https://www.balimedicaljournal.org/index.php/bmj/article/view/3697>)**

I Putu Satrya Wijaya, Titin Andri Wihastuti, I Wayan Arsana Wiyasa, Muhammad Chair Effendi

Online First: Apr 12, 2023 |

 Abstract

 pdf (<https://www.balimedicaljournal.org/index.php/bmj/article/view/3697/2688>)

ORIGINAL ARTICLE

**The comparison of effects of iron supplementation since pre-pregnant and during pregnant period on reducing iron deficiency anemia in pregnant women with mild anemia in Bali (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4149>)**

Luh Seri Ani, I Made Bakta, Made Ayu Hitapretiwati Suryadhi, Nyoman Agus Bagiada

Online First: May 11, 2023 |

 Abstract

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ORIGINAL ARTICLE

**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>)

Yati Isnaini Safitri, Uliyatul Laili, Nanik Handayani

Online First: Jun 22, 2023 |

 Abstract

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ORIGINAL ARTICLE

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

Ayu Permatasari Tribuana Tungga Dewi, Ni Made Mertaniasih, Bambang Pujo Semedi, Lindawati Alimsardjono, Pepy Dwi Endraswari

Online First: May 3, 2023 |

 Abstract

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ORIGINAL ARTICLE

**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

Online First: Jun 3, 2023 |

 Abstract

 pdf (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4520/2823>)

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

Online First: Jul 18, 2023 |

 Abstract

 pdf (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4617/2911>)

ORIGINAL ARTICLE



**High-risk human papillomavirus prevalence among patients with cervical cancer at Moewardi General Hospital in Surakarta, Indonesia (<https://www.balimedicaljournal.org/index.php/bmj/article/view/3782>)**

Brian Wasita, Suyatmi, Riza Novierta Pesik, Ratih Dewi Yudhani, Nanang Wiyono, Rachmi Fauziah Rahayu, Kristanto Yuli Yarso

Online First: Jun 19, 2023 |

 Abstract

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ORIGINAL ARTICLE

**Evaluation of hearing limits post tympanoplasty in patients with chronic suppurative otitis media (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4203>)**

Nico Probosutejo, Titiek Hidajati Ahadiah

Online First: Apr 23, 2023 |

 Abstract

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ORIGINAL ARTICLE

**Correlation between stress and insomnia with learning outcomes: a cross sectional study (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4294>)**

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

Online First: Jun 16, 2023 |

 Abstract

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ORIGINAL ARTICLE

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

Esty Puji Rahayu, Nanik Handayani, Fritria Dwi Anggraini

Online First: Jun 22, 2023 |

 Abstract

 pdf (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4336/2866>)

ORIGINAL ARTICLE

**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

Online First: May 1, 2023 |

 Abstract

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ORIGINAL ARTICLE

**The relationship of the use of masks with the event of maskne on Universitas Sumatera Utara Hospital healthcare workers during the COVID-19 pandemic** (<https://www.balimedicaljournal.org/index.php/bmj/article/view/3967>)

Raisa Khairuni, Nelva Karmila Jusuf, Imam Budi Putra

Online First: Apr 12, 2023 |

 Abstract

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ORIGINAL ARTICLE

**Platelet count, platelet lymphocyte ratio, and Ki67 as a predictive factor of neoadjuvant chemotherapy response in locally advanced breast cancer** (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4222>)

Sasongko Hadi Priyono, Badriatunnor, Meitria Syahadatina Noor, Agung Ary Wibowo, Didik Dwi Sanyoto, Audi Ardansyah

Online First: May 27, 2023 |

 Abstract

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ORIGINAL ARTICLE

**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

Online First: Apr 15, 2023 |

 Abstract

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ORIGINAL ARTICLE

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

Made Ayu Vita Prianggandanni, Anak Agung Wiradewi Lestari, I Nyoman Wandu, Ni Nyoman Mahartini, Sianny Herawati



Online First: Jun 24, 2023 |

 Abstract

 pdf (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4342/2878>)

ORIGINAL ARTICLE

**Sinonasal inverted papilloma extirpation by endoscopic approach: a case report** (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4060>)

Teuku Husni TR, Ridha Chaharsyah Mulya

Online First: May 25, 2023 |

 Abstract

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ORIGINAL ARTICLE

**Ultrasound evaluation of post-cesarean uterine wound healing based on a figure of eight suturing technique** (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4241>)

Makmur Sitepu, Muhammad Birza Rizaldi, Djafar Siddik

Online First: Apr 18, 2023 |

 Abstract

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ORIGINAL ARTICLE

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

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

Online First: Apr 26, 2023 |

 Abstract

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ORIGINAL ARTICLE

**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>)

I Gusti Ayu Artini, Ketut Widyani Astuti, I Gusti Made Gede Surya Chandra Trapika, Agung Wiwiek Indrayani

Online First: Apr 24, 2023 |



 Abstract

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ORIGINAL ARTICLE

**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

Online First: Jul 4, 2023 |

 Abstract

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ORIGINAL ARTICLE

**Nocturia Overview: a survey from General Practitioners in Indonesia** (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4256>)

Madhyra Tri Indraswari, Harrina Erlianti Rahardjo

Online First: Jul 4, 2023 |

 Abstract

 pdf (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4256/2893>)

ORIGINAL ARTICLE

**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

Online First: Apr 26, 2023 |

 Abstract

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ORIGINAL ARTICLE

**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>)

Pamudji Utomo, Hafizh Nur Santoso, Dykall Naf'an Dzikri

Online First: Jul 18, 2023 |

 Abstract

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ORIGINAL ARTICLE

**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

Online First: Aug 9, 2023 |

 Abstract

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ORIGINAL ARTICLE

**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

Online First: Jun 21, 2023 |

 Abstract

 pdf (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4318/2861>)

ORIGINAL ARTICLE

**Impact of Abelmoschus esculentus fruit extract on endonuclease\_G and apoptosis index in adenocarcinoma mammae. A laboratory experiment: rats given chemotherapy AC** (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4412>)

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

Online First: Apr 30, 2023 |

 Abstract

 pdf (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4412/2766>)

ORIGINAL ARTICLE

**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

Online First: May 23, 2023 |

 Abstract

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ORIGINAL ARTICLE

**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

Online First: Aug 9, 2023 |

 Abstract

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ORIGINAL ARTICLE

**Phytochemical screening and evaluation of glucose-6-phosphate dehydrogenase activity of fermented honey-garlic in hypothyroidism rats**  
(<https://www.balimedicaljournal.org/index.php/bmj/article/view/4286>)

Devyana Dyah Wulandari, Devyani Diah Wulansari, Andreas Putro Ragil Santoso, Ary Andini, Ersalina Nidianti, Rahayu Anggraini, Alfian Hendra Krisnawan, Firdaus, Mahestinnisa Mutiara Firdaus, Mun'im Azaki

Online First: Jun 16, 2023 |

 Abstract

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ORIGINAL ARTICLE

**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>)

Nurul Latifatul Azizah, Tiyas Saputri, Syiddatul Budury

Online First: Apr 24, 2023 |

 Abstract

 pdf (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4326/2707>)

ORIGINAL ARTICLE

**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

Online First: Jun 23, 2023 |

 Abstract

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ORIGINAL ARTICLE

**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

Online First: May 31, 2023 |

 Abstract

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ORIGINAL ARTICLE

**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 Djodimedjo

Online First: Jul 22, 2023 |

 Abstract

 pdf (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4612/2925>)

ORIGINAL ARTICLE

**Correlation between burnout and patient safety culture on nurses at private hospital in Yogyakarta, Indonesia**  
(<https://www.balimedicaljournal.org/index.php/bmj/article/view/3732>)

Rizky Amelia Febriani, Lisa Musharyanti

Online First: Jul 12, 2023 |

 Abstract

 pdf (<https://www.balimedicaljournal.org/index.php/bmj/article/view/3732/2908>)

ORIGINAL ARTICLE

**Effect of mini low carbohydrate diet and eating speed in obese adults on fasting blood glucose**  
(<https://www.balimedicaljournal.org/index.php/bmj/article/view/4189>)

Muhammad Aldhi Ainul Yaqiin, Anik Lestari, Sumardiyono

Online First: May 2, 2023 |

 Abstract

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ORIGINAL ARTICLE



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

Che Wan Sharifah Robiah Mohamad, Yahya Mat Arip, Uyub Abdul Manaf, Marni Azera Markon

Online First: Jun 14, 2023 |

 Abstract

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ORIGINAL ARTICLE

**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

Online First: Jul 21, 2023 |

 Abstract

 pdf (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4636/2912>)

ORIGINAL ARTICLE

**Factors attributed to depressive symptoms in women coping with infertility during the pandemic of COVID-19 (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4214>)**

Mila Maidarti, Emily Bailie, Aprilia Siregar, Prini Diandara Garinasih, Vita Silvana, Achmad Kemal Harzif, Gita Pratama, Kanadi Sumapraja, R Muharam, Andon Hestiantoro, Budi Wiweko

Online First: Apr 23, 2023 |

 Abstract

 pdf (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4214/2703>)

ORIGINAL ARTICLE

**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>)**

Friska Ayu, Firmansyah Ilham Sasmita Diharja, Moch. Sahri, Merry Sunaryo

Online First: Jun 22, 2023 |

 Abstract

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ORIGINAL ARTICLE

**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

Online First: Jun 12, 2023 |

 Abstract

 pdf (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4533/2839>)


ORIGINAL ARTICLE

**Correlation between Superoxide Dismutase (SOD) with Malondialdehyde (MDA) level in blood plasma of seborrheic keratosis**  
(<https://www.balimedicaljournal.org/index.php/bmj/article/view/4034>)

Yesie Elvira, Imam Budi Putra, Nelva K. Jusuf

Online First: Apr 25, 2023 |

 Abstract

 pdf (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4034/2720>)

ORIGINAL ARTICLE

**Characteristics of patients with nasopharyngeal carcinoma in Dr. Soetomo General Academic Hospital Surabaya**  
(<https://www.balimedicaljournal.org/index.php/bmj/article/view/4228>)

Nasopharyngeal Carcinoma

Audi Wahyu Utomo, Achmad Chusnu Romdhoni

Online First: May 11, 2023 |

 Abstract

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ORIGINAL ARTICLE

**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

Online First: Apr 17, 2023 |

 Abstract

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ORIGINAL ARTICLE


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

Mariana Wahjudi, Samuel Stefanus Widodo, Ida Bagus Made Artadana, Yulanda Antonius



Online First: Apr 28, 2023 |

 Abstract

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ORIGINAL ARTICLE

**Diagnostic and predictive value of hematological parameters of COVID-19 patients: a retrospective study**  
(<https://www.balimedicaljournal.org/index.php/bmj/article/view/4253>)

Estie Ludi Kiriwenno, Yulia Nadar Indrasari

Online First: May 6, 2023 |

 Abstract

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ORIGINAL ARTICLE

**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

Online First: Apr 26, 2023 |

 Abstract

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ORIGINAL ARTICLE

**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

Online First: Jun 3, 2023 |

 Abstract

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ORIGINAL ARTICLE

**The effect of Chromolaena odorata on endometriosis implants in mice model of endometriosis**  
(<https://www.balimedicaljournal.org/index.php/bmj/article/view/4096>)

Rusnaldi, Rajuddin, Reno Keumalazia Kamarlis, Dasrul

Online First: Apr 29, 2023 |



 Abstract

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ORIGINAL ARTICLE

**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 Nurmalaya Kardina, Ahmad Jazuly Nabil, Dewi Kuncoro Yakti Pamungkas, Salfa Salsabilah Zain, Marotur Rohima

Online First: Jun 21, 2023 |

 Abstract

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ORIGINAL ARTICLE

**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

Online First: May 26, 2023 |

 Abstract

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ORIGINAL ARTICLE

**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

Online First: Jun 26, 2023 |

 Abstract

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ORIGINAL ARTICLE

**The number of lymphocytes in rabbit gingival wounds covered with a periodontal pack with lime peel extract**  
(<https://www.balimedicaljournal.org/index.php/bmj/article/view/4121>)

Malianawati Fauzia, Ega Lucida Chandra Kumala, Ayu Nabilatul Ummah

Online First: May 9, 2023 |

 Abstract

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ORIGINAL ARTICLE

**The effect of dietary antioxidant vitamins on malondialdehyde, white blood cells, and platelets**  
(<https://www.balimedicaljournal.org/index.php/bmj/article/view/4284>)

Ary Andini, Farah Nuriannisa, Gilang Nugraha, Nathalya Dwi Kartika Sari, Muslikha Nourma Rhomadhoni, Satya Nugraha Wirayudha, Eka Apriliani Maisurotun Sholeh, Audria Intan Faradita, Fika Dwi Wahyuningtyas

Online First: Jun 16, 2023 |

 Abstract

 pdf (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4284/2852>)

ORIGINAL ARTICLE

**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

Online First: Apr 24, 2023 |

 Abstract

 pdf (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4324/2705>)

ORIGINAL ARTICLE

**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. Faisol Arif, Priyo Mukti Pribadi Winoto, Yurike Septianingrum, Erika Martining Wardani

Online First: Jun 23, 2023 |

 Abstract

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ORIGINAL ARTICLE

**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

Online First: May 25, 2023 |

 Abstract

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ORIGINAL ARTICLE

**Nursing education institutions' readiness to use online objective structured clinical examination scoring management system (<https://www.balimedicaljournal.org/index.php/bmj/article/view/3700>)**

Yanuar Primanda, Ferika Indarwati, Fahni Haris, Resti Yulianti Sutrisno

Online First: Jul 12, 2023 |

 Abstract

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ORIGINAL ARTICLE

**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 masruroh, Yati Isnaini Safitri

Online First: Jun 22, 2023 |

 Abstract

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
ORIGINAL ARTICLE

**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

Online First: May 29, 2023 |

 Abstract

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ORIGINAL ARTICLE

**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

Online First: Jul 24, 2023 |

 Abstract

 pdf (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4619/2934>)





ORIGINAL ARTICLE

**The activity of Matrix Metalloproteinase-2 (MMP-2) and Tissue Inhibitors of Metalloproteinase-2 (TIMP-2) that are associated with the degree of endometrioma tissue invasion transplanted onto the Chorioallantoic Membrane (CAM)**  
(<https://www.balimedicaljournal.org/index.php/bmj/article/view/3845>)

Tri Agung Wahyu Cahyono, Shofwal Widad, Cahyono Hadi, Agung Dewanto, Riris Jenie

Online First: Jul 20, 2023 |

 Abstract

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ORIGINAL ARTICLE

**Drug-Induced Liver Injury (DILI) related to Propylthiouracil (PTU) in hyperthyroidism with liver cirrhosis**  
(<https://www.balimedicaljournal.org/index.php/bmj/article/view/4206>)

Arina Salsabila, Ulfa Kholili, Hermina Novida

Online First: May 11, 2023 |

 Abstract

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ORIGINAL ARTICLE

**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

Online First: Jun 23, 2023 |

 Abstract

 pdf (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4295/2875>)

ORIGINAL ARTICLE

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

Priyo Mukti Pribadi Winoto, Nursalam, Iis Noventi, Sulistyorini, Ika Mardiyanti, Ainul Rofik

Online First: Jun 22, 2023 |

 Abstract

 pdf (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4337/2867>)

ORIGINAL ARTICLE



**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

Online First: Jun 2, 2023 |

 Abstract

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ORIGINAL ARTICLE

**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

Online First: Jun 21, 2023 |

 Abstract

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ORIGINAL ARTICLE

**Evaluation of the severity of striae distensae using the new scoring system (<https://www.balimedicaljournal.org/index.php/bmj/article/view/3994>)**

Alviera Yuliandra Amal, Imam Budi Putra, Nelva Karmila Jusuf, Khairina Nasution

Online First: Apr 25, 2023 |

 Abstract

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ORIGINAL ARTICLE

**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

Online First: Apr 13, 2023 |

 Abstract

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ORIGINAL ARTICLE


**Comparative study on albumin, C-Reactive Protein (CRP) and D-dimer in chronic hemodialysis patients with COVID-19 (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4345>)**



Robinson, Kevin Gracia Pratama, Aditiawardana

Online First: Jun 24, 2023 |

 Abstract

 pdf (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4345/2879>)

ORIGINAL ARTICLE

**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

Online First: Jun 30, 2023 |

 Abstract

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
ORIGINAL ARTICLE

**The ethical dilemma of medical specialists in the era of national health insurance in Semarang (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4068>)**

Sigid Kirana Lintang Bhima, Yayi Suryo Prabandari, Edward Kurnia Setiawan Limijadi, Astika Utomo, Laila Mubarokah, Mohammad Hakimi

Online First: Apr 12, 2023 |

 Abstract

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ORIGINAL ARTICLE

**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

Online First: Jul 4, 2023 |

 Abstract

 pdf (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4309/2901>)

ORIGINAL ARTICLE

**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>)**

Komang Januartha Putra Pinatih, I Putu Gede Karyaana, Ni Nyoman Metriani Nesa, Ni Luh Sri Apsari, Desak Made Wihandani



Online First: Apr 17, 2023 |

 Abstract

 pdf (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4371/2693>)

ORIGINAL ARTICLE

**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

Online First: Jun 12, 2023 |

 Abstract

 pdf (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4485/2837>)

ORIGINAL ARTICLE

**Correlation between sebum level and severity of male androgenetic alopecia (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4084>)**

Regina Maharani Tambunan, Nelva Karmila Jusuf, Imam Budi Putra

Online First: May 10, 2023 |

 Abstract

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ORIGINAL ARTICLE

**Effect of probiotics as adjuvant therapy of antidepressants in male Wistar rats with anhedonia behavior (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4263>)**

Wati Evilia, Anak Ayu Sri Wahyuni, Ida Aju Kusuma Wardani, I Wayan Gede Artawan Eka Putra, Lely Setyawati Kurniawan, Ni Ketut Sri Diniari, I Gusti Ayu Indah Ardani, I Gusti Kamasan Nyoman Arijana

Online First: Apr 27, 2023 |

 Abstract

 pdf (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4263/2714>)

ORIGINAL ARTICLE


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

Bayu Wijanarko, Prananda Surya Airlangga, Mariza Fitriati, Christrijogo Sumartono, Prihatma Kriswidyatomo, Pudji Lestari

Online First: May 6, 2023 |



 Abstract

 pdf (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4386/2777>)

ORIGINAL ARTICLE

**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 Putranto, Luthfian Aby Nurachman

Online First: May 14, 2023 |

 Abstract

 pdf (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4491/2788>)

REVIEW

**Efficacy of topical medroxyprogesterone acetate 1 % and topical doxycycline reduce MMP-9 and TGF- $\beta$ 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

**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 |

 Abstract

 pdf (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4613/2886>)

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 |

 Abstract

 pdf (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4456/2831>)



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 |

 Abstract

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**Intravitreal triamcinolone acetonide and bevacizumab injection as prevention of proliferative vitreoretinopathy in open globe injury**  
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**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**  
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**The role of Platelet Rich Fibrin (PRF) membrane and conjunctival autograft on TGF- $\beta$  and collagen type 1 expression in conjunctival wound healing: a literature review**  
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I Nyoman Ananta Karisma, Wimbo Sasono, Susy Fatmariyanti

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

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**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>)**

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**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>)**

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



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**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>)**

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Popy Arizona, Yunias Setiawati

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**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>)**

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**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>)**

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

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

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**A patient with acute fatty liver of pregnancy (AFLP) with acute pancreatitis manifestations (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4288>)**

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**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>)**

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

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**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>)**

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

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**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>)**

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**Scleromalacia perforans in young patient: a unique case (<https://www.balimedicaljournal.org/index.php/bmj/article/view/4560>)**

an unique case

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

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**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>)**

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

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