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20891180, 23022914

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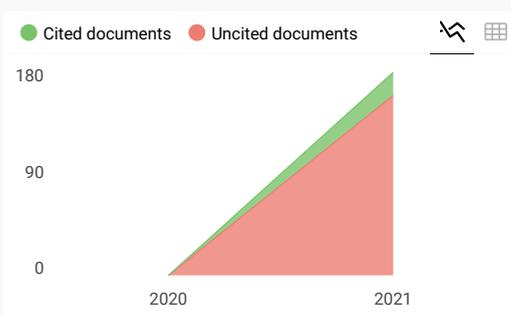
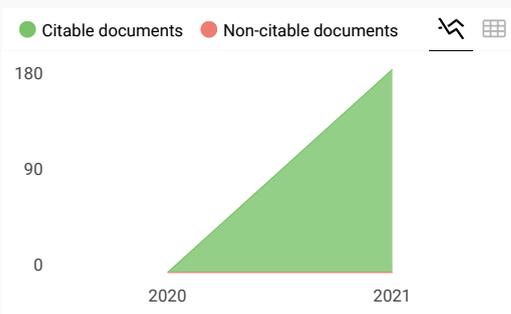
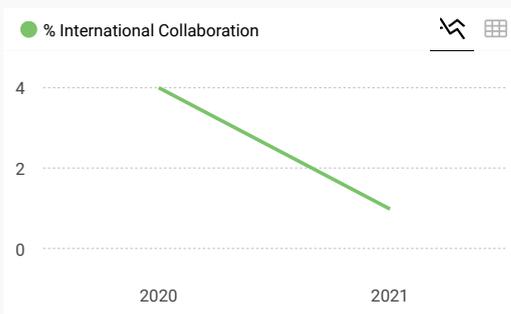
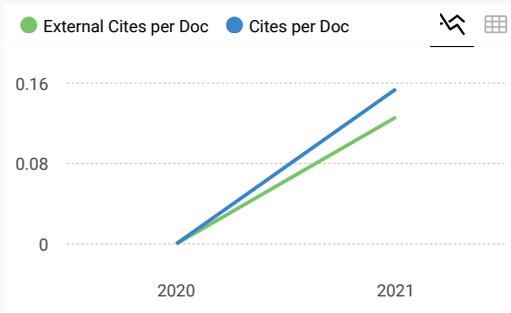
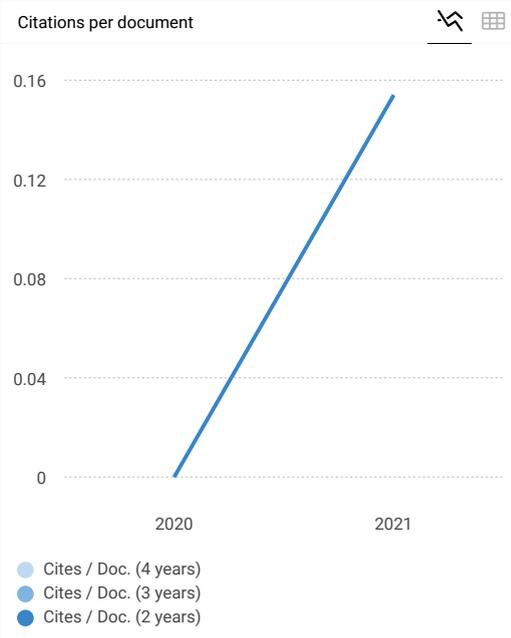
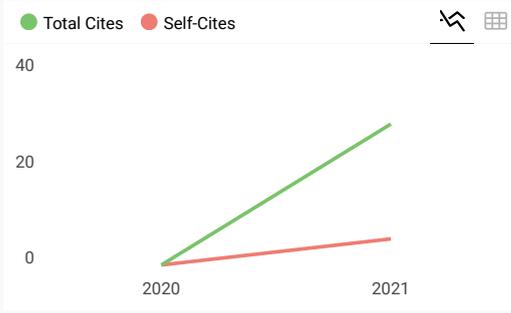
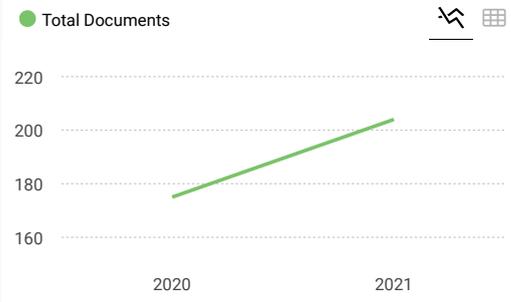
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Ketut Putu Yasa, Raymen Satria, I Komang Adhi Parama Harta, I Wayan Sudarma, I Nyoman Semadi

Online First: Feb 28, 2023 |

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ORIGINAL ARTICLE

Effects of Tourniquet Inflation on Blood Pressure, Mean Arterial Pressure, and Pulse Rate during the Maintenance of Anesthesia Using a Combination of Dexmedetomidine and Isoflurane for Patients Undergoing Lower Extremity Surgery (<https://balimedicaljournal.org/index.php/bmj/article/view/4244>)

Bayu Wijanarko, Christrijogo Sumartono, Belindo Wirabuana, Hardiono, Bambang Pujo Semedi, Prananda Surya Airlangga

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The potential role of MMP-9 and VEGF-C as predictors of lymph node involvement in papillary thyroid carcinoma (<https://balimedicaljournal.org/index.php/bmj/article/view/3805>)

Sonar Soni Panigoro, Muhammad, Diani Kartini, Bob Andinata, Boy Subirosa Sabarguna, Agnes Stephanie Harahap

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ORIGINAL ARTICLE



Correlation between platelet distribution width and mean platelet volume with the stage of hepatocellular carcinoma based on Barcelona Clinical Liver Cancer criteria (<https://balimedicaljournal.org/index.php/bmj/article/view/3942>)

Fauzi Yusuf, Desi Maghfirah, Azzaki Abubakar, Teuku Irfan, Meutia Rizki Innayah

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ORIGINAL ARTICLE

Factors related to mortality in geriatric patients after elective surgery: a retrospective cohort study (<https://balimedicaljournal.org/index.php/bmj/article/view/4005>)

Yudo Murti Mupangati, Mustain, Henry Setyawan, Ignatius Riwanto, Czeresna Heriawan Soejono, Muhammad Hussein Gasem

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ORIGINAL ARTICLE

The relationship between nutritional status before chemotherapy with nutritional status after chemotherapy in locoregionally advanced nasopharyngeal carcinoma patients (<https://balimedicaljournal.org/index.php/bmj/article/view/4070>)

Felita Surya Rini, Etisa Adi Murbawani, Minidian Fasitasari, Niken Puruhita, Khairuddin

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The effect of Curcuma longa extract on fibroblast count and collagen density in intestinal anastomosis: an experimental study on New Zealand rabbits (<https://balimedicaljournal.org/index.php/bmj/article/view/4151>)

Sarwendah Pratiwi Budiman, I Gusti Bagus Adria Hariastawa, Fendy Matulatan

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Plasma marker ACTH, cortisol, and beta-endorphins profile on pregnant women as targeted marker of approach for antenatal depression (<https://balimedicaljournal.org/index.php/bmj/article/view/3694>)

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

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Jatropha multifida L stem sap gel versus Aloe vera gel to post-gingivectomy healing process (<https://balimedicaljournal.org/index.php/bmj/article/view/3821>)

Khusnul Munika Listari, Tsarwah Az-Zahra, Amalia Hasanah, Yessy Agistasari

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The impact of transcutaneous auricular vagus nerve stimulation on C-reactive protein in patients with chronic low back pain (<https://balimedicaljournal.org/index.php/bmj/article/view/4017>)

Yaniar Uzlifatin, Raden Ayu Meisy Andriana, Indrayuni Lukitra Wardhani, Imam Subadi, Paulus Sugianto, Soenarnatalina Melaniani

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The percentage of positive biopsy cores in predicting biochemical recurrence and adverse pathology in prostate cancer patients after radical prostatectomy: a systematic review and meta-analysis (<https://balimedicaljournal.org/index.php/bmj/article/view/4075>)

Ahmad Fathira Fitra, Niwanda Yogiswara, Wahjoe Djatisoesanto, Eric Chung, Lukman Hakim

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Brain-derived neurotrophic factor (BDNF) and the capute scales in offspring of mothers with normal and deficient vitamin D levels (<https://balimedicaljournal.org/index.php/bmj/article/view/3711>)

Julian Dewantiningrum, Fitri Hartanto, Maria Mexitalia, Ariawan Soejoenoes, Annastasia Ediaty, Suharyo Hadisaputro, Dwi Pudjonarko

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The effect of low-intensity intradialytic aerobic exercise on heart rate variability in maintenance hemodialysis patients (<https://balimedicaljournal.org/index.php/bmj/article/view/3957>)

Dilia Ratna Dewi, Damayanti Tinduh, Andriati, Mochammad Thaha, Mohammad Fathul Qorib, Soenarnatalina Melaniani

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Effect of Spiramycin and Moringa leaf feeding in improving placenta, heart, histopathological neurons and glia in fetal models with toxoplasmosis (<https://balimedicaljournal.org/index.php/bmj/article/view/4030>)

Hafi Nurinasari, Sajidan, Bambang Purwanto, Dono Indarto, Didik T Subekti, Hendrastuti Apriningsih, Ariva Syiva'a, Soetrisno

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The significance of immunoexpression of Polo Like Kinase 1 (PLK1) in retinoblastoma (<https://balimedicaljournal.org/index.php/bmj/article/view/4087>)

The Significance of PLK1 In Retinoblastoma
Yan Adhitya Kusuma, Dyah Fauziah, Anny Setijo Rahaju

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Understanding of home care and interest level of nursing students working as home care nurses (<https://balimedicaljournal.org/index.php/bmj/article/view/3737>)

Nur Chayati, Riska Adellia

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Relations between the incidence of endometriosis and type 1 epithelial ovarian cancer at M Djamil Central Hospital of Padang Indonesia (<https://balimedicaljournal.org/index.php/bmj/article/view/3843>)

Syamel Muhammad, Ghina Muthmainnah

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Tumour infiltrating lymphocyt (TILs) as an excellent predictive factor for neoadjuvant chemotherapy response on locally advanced rectal cancer patient (<https://balimedicaljournal.org/index.php/bmj/article/view/4037>)

Florencia Adys, Iwan Kristian, Sahudi, Alphania Rahniayu

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Prevalence and susceptibility profile of carbapenem-resistant pseudomonas aeruginosa (CRPA) at Dr. Soetomo Public Hospital, Surabaya, from January to December 2021 (<https://balimedicaljournal.org/index.php/bmj/article/view/4098>)

Andritta Febriana, Agung Dwi Widodo, Muhammad Vitanata Arfijanto

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Assessment of nutrient intake and antenatal education method for pregnant women in Gianyar, Bali, Indonesia (<https://balimedicaljournal.org/index.php/bmj/article/view/4194>)

Ni Wayan Ariyani, Ni Luh Putu Sri Erawati

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ORIGINAL ARTICLE

Mayo Endoscopic Score (MES) as a reference for the histological active disease of ulcerative colitis (<https://balimedicaljournal.org/index.php/bmj/article/view/3766>)

Agung Ary Wibowo, Hendy Buana Vijaya, Didik Dwi Sanyoto, Hendra Sutapa, Husna Dharma Putera, Kenanga Marwan Sikumbang

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ORIGINAL ARTICLE

Copeptin levels as a predictor of acute kidney injury (AKI) in ST-segment elevation myocardial infarction (STEMI) (<https://balimedicaljournal.org/index.php/bmj/article/view/3912>)

Dian Ariningrum, Mas Aditya Senaputra, Sumardiyono, Purwanto Adhi Pireno, Lisyani B. Suromo

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Spiritual care on quality of life patients exposed to COVID-19 in the city area of Semarang (<https://balimedicaljournal.org/index.php/bmj/article/view/3779>)

Tri Hartiti, Arief Yanto

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ORIGINAL ARTICLE

Diagnostic test thyroid elastography examination and mRNA expression of the Cytokeratin-19 gene to determine the type of thyroid nodule (<https://balimedicaljournal.org/index.php/bmj/article/view/3924>)

Fauzy Ma'ruf, Made Agus Suanjaya, Bachtiar Murtala, Muhammad Ilyas, Mochammad Hatta, Rahmad Mulyadi, Rosdiana Natzir, Irfan Idris, Muhammad Husni Cangara, Mirna Muis, Andi Alfian Zainuddin, Dewi Anjarwati, Wiwik Sari Aprianturi

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Postoperative complications of Mathieu incised plate versus standard tubularized incised plate urethroplasty for distal hypospadias: a systematic review and meta-analysis (<https://balimedicaljournal.org/index.php/bmj/article/view/4058>)

Muhammad Arif Hakim Jamhari, Ilham Akbar Rahman, Muhammad Rifki Setiawan, Sirin Salsabila, Johan Renaldo, Mohammad Ayodhia Soebadi

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Unmet need for Family Planning (FP) in 7 national development areas in Indonesia (<https://balimedicaljournal.org/index.php/bmj/article/view/4123>)

Musafaah Musafaah, Tris Eryando, Meiwita Paulina Budiharsana, Martya Rahmaniati, Hadrianti Lasari

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Triple-layered composite mesh for managing anterior abdomen wall defects in ventral hernia (<https://balimedicaljournal.org/index.php/bmj/article/view/3794>)

Riana Pauline Tamba, Candy, Ahmad Yani, Rizky Amaliah

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Correlation of 5-minutes heart rate variability with health performance of resident physicians in covid 19 pandemic (<https://balimedicaljournal.org/index.php/bmj/article/view/4002>)

Muhammad Ridwan, Subhan Rio Pamungkas, Fauzul Husna, Willa Mutia Syafrida, Inda Lestari

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Adjusted enhanced recovery after surgery (ERAS) protocol in colorectal surgery at dr. Cipto Mangunkusumo General Hospital, Jakarta (<https://balimedicaljournal.org/index.php/bmj/article/view/4066>)

Andre Setiawan Suryadi, Vania Myralda Giamour Marbun, Arnetta Naomi Louise Lalisang, Wifanto Saditya Jeo, Yarman Mazni, Toar Jean Maurice Lalisang

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Effectiveness of topical turmeric extract compared to topical zinc on fibroblast count and collagen density in clean-contaminated wound: a study on new zealand white rabbit (<https://balimedicaljournal.org/index.php/bmj/article/view/4147>)

Made Walmiky Budi, Adria Hariastawa, Fendy Matulatan

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Post-chemotherapy response of paclitaxel and carboplatin regimens in advanced stage cervical cancer types of histopathology squamous cell carcinoma and adenocarcinoma (<https://balimedicaljournal.org/index.php/bmj/article/view/3682>)

Yohanes Adhitya Prakasa Sukoco, Meitria Syahadatina Noor, Ferry Armanza, Hariadi Yuseran, Renny Aditya

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Effects of Lactobacillus plantarum IS-10506 on gastric protective mucosal factors: an ibuprofen-induced gastric mucosal injury (<https://balimedicaljournal.org/index.php/bmj/article/view/3948>)

Andy Darma, Wibi Riawan, Khadijah Rizky Sumitro, Alpha Fardah Athiyah, Reza Ranuh, Mohammad Fathul Qorib, Ingrid Surono, Subijanto Marto Sudarmo

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The relationship between metabolic acidosis as a predictive factor of mortality in Ludwig's Angina patients at Dr. Soetomo General Hospital, Surabaya, Indonesia (<https://balimedicaljournal.org/index.php/bmj/article/view/4073>)

Alif Rakhman Prima Adi, Marjono Dwi Wibowo, Dwi Hari Susilo

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Correlation between the number of Interstitial cells of Cajal (ICC) and defecation pattern in patients with Hirschsprung's disease after Duhamel's surgery at General Hospital Dr. Soetomo (<https://balimedicaljournal.org/index.php/bmj/article/view/4154>)

Yohanes Santosa Honggowarsito, Adria Hariastawa, Fendy Matulatan, Alphania Rahniayu

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Sarcopenia as an indicator of nutritional status and outcome predictor for colorectal cancer in Javanese ethnic (<https://balimedicaljournal.org/index.php/bmj/article/view/3706>)

Damianus Hipolitus, Adeodatus Yuda Handaya, Agus Barmawi

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Comparison of chlorhexidine 0.7% and modified Petroff's method on sputum decontamination for culture method to detect Mycobacterium tuberculosis (<https://balimedicaljournal.org/index.php/bmj/article/view/3832>)

Rizky Hurriah Lumbessy, Ni Made Mertaniasih, Lindawati Alimsardjono, Soedarsono Soedarsono

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Comparison of agility between the flat foot and normal foot in East Java Puslatda athletes (<https://balimedicaljournal.org/index.php/bmj/article/view/3955>)

Bobby Kennedy, Damayanti Tinduh, Ditaruni Asrina Utami, I Putu Alit Pawana, Soenarnatalina Melaniani

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Exercise improving balance function in the older adult with locomotive syndrome stage 1: a randomized clinical trial (<https://balimedicaljournal.org/index.php/bmj/article/view/4025>)

Ajeng Hayu Nayasista, Rwhita Satyawati Dharmanta, Yudith Dian Prawitri, Sri Mardjiati Mei Wulan, Yukio Mikami, Soenarnatalina Melaniani

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The impact of COVID-19 vaccination for healthcare workers on the SARS-CoV-2 antibody titers in a tertiary hospital in Jakarta, Indonesia (<https://balimedicaljournal.org/index.php/bmj/article/view/3735>)

Rika Bur, Febby Elvanesa Sandra Dewi, Virmandiani, Yosanti Elsa Kartikawati, Meutia Gebrina, Aditya Rifqi Fauzi, Duddy Mulyawan, Ni Sayu Dewi Budhiyani

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Factors that determine inpatient satisfaction on nursing care: a cross-sectional study (<https://balimedicaljournal.org/index.php/bmj/article/view/3840>)

Sulaiman , Anggriani , Maryaningsih, Ronald Erwanyah, Lagut Sutandra Siregar, Muchti Yuda Pratama, Selly Oktaria, Rahmadi Ali, Yenni Gustiani Tarigan

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Development of nursing learning program for COVID-19 patients with e-learning method for nursing department students Poltekkes Ministry of Health Jayapura Papua (<https://balimedicaljournal.org/index.php/bmj/article/view/3961>)

Blestina Maryorita, Jems Kifen Roget Maay

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ORIGINAL ARTICLE

Performance comparison between Conventional Polymerase Chain Reaction and AbTes Real-time polymerase chain reaction with the gold standard of microscopy imaging detection method (<https://balimedicaljournal.org/index.php/bmj/article/view/4035>)

Puspa Wardhani, Aryati, Nur Chamidah

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ORIGINAL ARTICLE

Profiles of patients with maxillofacial fractures in emergency department of head and neck surgery division of Dr. Soetomo General Hospital Surabaya in 2021 during COVID-19 pandemic (<https://balimedicaljournal.org/index.php/bmj/article/view/4092>)

Kevin Adrian, Marjono Dwi Wibowo

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ORIGINAL ARTICLE

Efficacy of transcutaneous electrical nerve stimulation on slow transit constipation in children with cerebral palsy (<https://balimedicaljournal.org/index.php/bmj/article/view/3897>)

Rifah Zafarani Soumena, Andy Darma, Reza Gunadi Ranuh, Prastiya Indra Gunawan, Alpha Fardah Athiyah, Khadijah Rizky Sumitro, Subijanto Marto Sudarmo

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ORIGINAL ARTICLE

Application for COVID-19 severity diagnosis and asynchronous telehealth: development and prototype of G-COV (<https://balimedicaljournal.org/index.php/bmj/article/view/3970>)

Budi Yanti, Adinda Zahra Ayufi Ramadhani, Zarfan Fawwaz Muhamad, Rahmad, Al Yafi

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The effect of added Transcutaneous Vagus Nerve Stimulation (tVNS) on quality of life in patients with chronic low back pain: a randomized controlled trial study (<https://balimedicaljournal.org/index.php/bmj/article/view/4042>)

Muhammad Jasman Erwin Halim, Imam Subadi, I Putu Alit Pawana, Lydia Arfianti, Rwahita Satyawati, Soenarnatalina Melaniani

Online First: Apr 1, 2023 |

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ORIGINAL ARTICLE

The association between biofilm formation ability and antibiotic resistance phenotype in clinical isolates of gram-negative bacteria: a cross-sectional study (<https://balimedicaljournal.org/index.php/bmj/article/view/4101>)

Irbasmantini Syaiful, Agung Dwi Wahyu Widodo, Pepy Dwi Endraswari, Lindawati Alimsardjono, Budi Utomo, Muhammad Vitanata Arfijanto

Online First: Mar 24, 2023 |

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ORIGINAL ARTICLE

Relationship between angiotensin-like-protein-2 levels and anti-mullerian hormone levels in polycystic ovary syndrome of reproductive age (<https://balimedicaljournal.org/index.php/bmj/article/view/4201>)

Dyan Asih Rachmawati, Ashon Sa'adi, Budi Utomo, Arif Tunjungseto



Online First: Feb 26, 2023 |

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ORIGINAL ARTICLE

Integrated care: Health Promotion Hospital Model to Improve Family Support for Patients with Chronic Disease (<https://balimedicaljournal.org/index.php/bmj/article/view/2991>)

Rina Kurniawati, Mahendro Prasetyo Kusumo

Online First: Feb 16, 2023 |

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ORIGINAL ARTICLE

The impact of bullying on adolescent self-concept (<https://balimedicaljournal.org/index.php/bmj/article/view/3773>)

Laili Nur Hidayati, Silfia Wahyuni

Online First: Jan 30, 2023 |

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ORIGINAL ARTICLE

Association between IL-6 rs1800795 and IL-1 β rs 16944 gene polymorphisms with clinical severity of COVID-19 patients in Surakarta, Central Java, Indonesia (<https://balimedicaljournal.org/index.php/bmj/article/view/3919>)

Hendrastutik Apriningsih, Betty Surtawati, Reviono, Tonang Dwi Ardyanto -, Dewi Pratiwi, Hafi Nurinasari

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ORIGINAL ARTICLE

Cervical cancer screening and prevention among female gynecologic oncologists in Indonesia (<https://balimedicaljournal.org/index.php/bmj/article/view/3980>)

Brahmana Askandar Tjokroprawiro, Indra Yuliaty, Laila Nuranna, Tofan Widya Utami, Tricia Dewi Anggraeni, Khoirunnisa Novitasari, Renata Alya Ulhaq

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ORIGINAL ARTICLE

The frequency and determinants of executive dysfunction among patients with subacute phase of ischemic stroke in West Nusa Tenggara, Indonesia (<https://balimedicaljournal.org/index.php/bmj/article/view/3789>)

Muhammad Akbar, Jumraini Tammasse, Andi Kurnia Bintang, Herpan Syafii Harahap



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ORIGINAL ARTICLE

The effect of exercise using incentive spirometry on heart rate variability in patients after COVID-19 infection (<https://balimedicaljournal.org/index.php/bmj/article/view/3992>)

Hilman Harisuddin, Imam Subadi, Nuniek Nugraheni Sulistiawati, Andriati, Soenarnatalina Melaniani

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ORIGINAL ARTICLE

Integrated antenatal care services with breastfeeding counseling practices to improve pregnant women's knowledge, skills and readiness for exclusive breastfeeding (<https://balimedicaljournal.org/index.php/bmj/article/view/4143>)

Sudarmi, Baiq lin Rumintang, Ni Putu Dian Ayu Anggreni, Siti halimatussyadiah

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ORIGINAL ARTICLE

Bacteriocin potency test of lactic acid bacteria (LAB) isolated from rumen of Bali cattle against low pH and bile salt (<https://balimedicaljournal.org/index.php/bmj/article/view/4305>)

Hamong Suharsono, I Wayan Suardana, Komang Januartha Putra Pinatih

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ORIGINAL ARTICLE

Comparison of conventional and electronic cigarette on formaldehyde in blood and alveolus histopathology in vivo (<https://balimedicaljournal.org/index.php/bmj/article/view/3671>)

Surya Sinaga Immanuel, Tena Djuartina, Iskandar Rahardjo Budianto, Maria Dara Novi Handayani

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ORIGINAL ARTICLE

High ratio of neutrophils to lymphocytes and high triglyceride levels in serum as risk factors for pre-eclampsia (<https://balimedicaljournal.org/index.php/bmj/article/view/4007>)



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ORIGINAL ARTICLE

The validity and reliability of various footprint analysis in flatfoot diagnosis of competitive athletes (<https://balimedicaljournal.org/index.php/bmj/article/view/4071>)

I Putu Juniarta, Damayanti Tinduh, Nuniek Nugraheni, I Putu Alit Pawana, Rosy Setiawati, Soenarnatalina Melaniani

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Infant temperament with anxiety postpartum mothers in primary health care Sleman, Indonesia (<https://balimedicaljournal.org/index.php/bmj/article/view/3699>)

Riski Oktafia, Ema Anindita Berliyanti , Nur Azizah Indriastuti , Rini Rahmayanti

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Relationship between knowledge and medication adherence among patients with tuberculosis: a cross-sectional survey (<https://balimedicaljournal.org/index.php/bmj/article/view/3826>)

Muhammad Thesa Ghozali, Cica Tri Murani

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ORIGINAL ARTICLE

Declining in estimated glomerular filtration rate of chronic kidney disease patients after Ramadan fasting is independent of interleukin-6 serum level (<https://balimedicaljournal.org/index.php/bmj/article/view/3953>)

Abdullah , Kurnia Fitri Jamil, Dharma Lindarto, Desi Salwani, Muhsin, Andri Baftahul Khairi, Maimun Syukri

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Overview of prolactin levels in patients with schizophrenia during antipsychotic therapy at HB. Saanin Mental Hospital Padang, Indonesia (<https://balimedicaljournal.org/index.php/bmj/article/view/4018>)



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Postoperative supplementation effect of zinc and vitamin C in primary colonic anastomosis on peritonitis condition: A study on New Zealand rabbit (<https://balimedicaljournal.org/index.php/bmj/article/view/4077>)

Luh Putu Neolita Pradnya Wineni, Adria Hariastawa, Ariandi Setiawan

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The compliance of Pasar Raya Padang merchants in implementing health protocol (<https://balimedicaljournal.org/index.php/bmj/article/view/4158>)

Sri Siswati, Vebi Adiva, Ahmad Hidayat

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The Relationship between teeth brushing habits and tooth pain experienced in children with Autism Spectrum Disorder (ASD) (<https://balimedicaljournal.org/index.php/bmj/article/view/3835>)

Alfini Octavia, Wustha Farani, Syaina Azzahra, Safira Meita Hapsari

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ORIGINAL ARTICLE

Perception and readiness of medical students and teaching staff to implement interprofessional education (<https://balimedicaljournal.org/index.php/bmj/article/view/4031>)

I Gusti Ayu Sri Darmayani, Ida Bagus Amertha Putra Manuaba, Made Violin Weda Yani, I Gede Wikania Wira Wiguna, I Komang Wira Ananta Kusuma, I Gede Putu Supadmanaba

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ORIGINAL ARTICLE

The radiologic findings, positivity rate of culture method examinations, correlation with the type of lower respiratory secretion of



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ORIGINAL ARTICLE

Administration of mesenchymal stem cell derivate secretome causes lower levels of Matrix Metalloproteinase-13, Aggrecanase-2, and Interleukin-1 β than hyaluronic acid in rabbit knee osteoarthritis (<https://balimedicaljournal.org/index.php/bmj/article/view/4169>)

Cokorda Gde Oka Dharmayuda, I Ketut Siki Kawiyaana, I Made Bakta, I Nyoman Mantik Astawa, Putu Astawa, Ida Bagus Putra Manuaba, I Ketut Suyasa, Anak Agung Ngurah Subawa, Heri Suroto, Luh Putu Lin Indrayani Maker

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Overcoming relapse experience in acute coronary syndrome patients (<https://balimedicaljournal.org/index.php/bmj/article/view/3738>)

Al Afik, Yuni Sufyanti Arif, Abu Bakar, Riza Fikriana

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ORIGINAL ARTICLE

Diabetic ulcers prevention in the elderly for improving blood circulation of lower extremities with combination foot exercise therapy and electrophysical therapy (<https://balimedicaljournal.org/index.php/bmj/article/view/4099>)

Agnes Dewi Astuti, Nang Randu Utama, Bernadetta Germia Aridamayanti

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ORIGINAL ARTICLE

Comparison between the time to detection of pathogenic and nonpathogenic microorganisms from blood culture specimens using the BACTECTM FX machine to determine the optimal incubation time (<https://balimedicaljournal.org/index.php/bmj/article/view/4199>)

Dewi Yana, Agung Dwi Wahyu Widodo, Pepy Dwi Endraswari

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ORIGINAL ARTICLE



The effectiveness of roll-on aromatherapy of calamansi orange peel essential oil (*Citrofortunella microcarpa*) on reducing anxiety and pain in labor (<https://balimedicaljournal.org/index.php/bmj/article/view/4047>)

Yetti Purnama, Kurnia Dewiani, Suci Rahmawati, Linda Yusanti, Linda Yulyani

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Which are the best in protecting the upper respiratory tract, KN95® or Acchadana®-herbal masks on IL-6 perspective? (<https://balimedicaljournal.org/index.php/bmj/article/view/4115>)

Resti Ariani, Awal Prasetyo, Rina Puspita, Fathur Nur Kholis, Udadi Sadhana, Ika Pawitra M, Hermawan Istiadi

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Characteristic profiles of patients with diabetes mellitus and COVID-19 during the second epidemic wave in East Java, Indonesia: a retrospective study (<https://balimedicaljournal.org/index.php/bmj/article/view/4208>)

Batari Retno Minanti, Soebagijo Adi Soelistijo, Agung Pranoto

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Results and cost analysis of Amplatzer® Ductal Occluder-ii, Nit Occlud® Lê Coil, and Konar-MF® ventricular septal defect occluder for percutaneous ventricular septal defect closure (<https://balimedicaljournal.org/index.php/bmj/article/view/3487>)

Eka Gunawijaya, Ni Putu Veny Kartika Yantie, Anlidya Permatasari Gunawijaya

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ORIGINAL ARTICLE

Islamic nursing care implementation: patients' perception (<https://balimedicaljournal.org/index.php/bmj/article/view/3780>)

Novita Kurnia Sari, Aspia Dwi Asriani

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ORIGINAL ARTICLE

Does transcutaneous Vagus Nerve Stimulation (tVNS) reduce pain intensity in chronic low back pain patients? A randomized controlled pilot study (<https://balimedicaljournal.org/index.php/bmj/article/view/3929>)

Muhammad Jasman Erwin Halim, Lydia Arfianti, I Putu Alit Pawana, Soenarnatalina Melaniani

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Validity test of pre-screening developmental questionnaire (PDQ) and mother and child health (MCH) handbook for determining children's readiness to enter elementary school (<https://balimedicaljournal.org/index.php/bmj/article/view/3987>)

Nurani Widiyanti, Ahmad Suryawan, Mira Irmawati

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ORIGINAL ARTICLE

Efficacy of tadalafil and L-arginine combination therapy compared with tadalafil-only for the treatment of erectile dysfunction: A systematic review and meta-analysis (<https://balimedicaljournal.org/index.php/bmj/article/view/4059>)

Donny Austine Wibisono, Furqan Hidayatullah, Fikri Rizaldi, Tarmono Djojodimedjo

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Association of appetite hormone levels with HbA1c in obese type-2 diabetes mellitus patients (<https://balimedicaljournal.org/index.php/bmj/article/view/4134>)

Edward Kurnia Setiawan Limijadi, Nyoman Suci Widyastiti, Meita Hendriangtyas, Banundari Rachmawati

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Correlation between age, the clinical status of patients, operator characteristics, and surgical landmarks with the incidence of tracheotomy complications (<https://balimedicaljournal.org/index.php/bmj/article/view/4235>)

Evan Anindito, Muhtarum Yusuf, Titiek H Ahadiah

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ORIGINAL ARTICLE

Pregnancy characteristics of patients with placenta accreta spectrum at Prof. Dr. I.G.N.G. Ngoerah Hospital Denpasar, Bali-Indonesia during January 2020 - January 2022 (<https://balimedicaljournal.org/index.php/bmj/article/view/3797>)

Anak Agung Ngurah Jaya Kusuma, I Wayan Artana Putra, I Gde Sastra Winata, I Gusti Ngurah Wiranta Permadi, William Alexander Setiawan

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ORIGINAL ARTICLE

The relationship of biofilm *Staphylococcus aureus* with degree of severity and infection in patients of chronic rhinosinusitis (<https://balimedicaljournal.org/index.php/bmj/article/view/4069>)

Teuku Husni T.R, Karina Witary Ayu Siagian, Benny Kurnia

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Association between polymorphism loci rs7041, rs4588 in vitamin D-binding protein receptor gene with comorbid with mortality sepsis patients in intensive care unit General Hospital M. Djamil Padang, West Sumatra (<https://balimedicaljournal.org/index.php/bmj/article/view/4148>)

Liliriawati Ananta Kahar, Yusrawati, Jamsari, Tinni Maskoen, Delmi Sulastri, Yusticia Katar, Raveinal, Fika Tri Anggraini, Kornelis Aribowo, Wiwi Monika Sari

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ORIGINAL ARTICLE

Experiences of HIV/AIDS women in planning their pregnancies during the COVID-19 pandemic (<https://balimedicaljournal.org/index.php/bmj/article/view/3692>)

Nur Azizah Indriastuti, Erna Rochmawati , Luluk Rosida, Riski Oktafia, Rizka Mega Putri Ariyanto

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ORIGINAL ARTICLE

Improved abdomen muscle activity with interferential current therapy in cerebral palsy with constipation: a randomized controlled trial study (<https://balimedicaljournal.org/index.php/bmj/article/view/3819>)

Shofie Sabatin Verayunia, Sri Mardjati Mei Wulan, Noor Idha Handajani, Andriati, Martha Kurnia Kusumawardani, Andy Darma, Reza Gunadi Ranuh, Soenarnatalina Melaniani

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Critical priority Multidrug-Resistant Organisms (MDROs) secondary infection among COVID-19 patients: hidden threat during a pandemic? A retrospective study (<https://balimedicaljournal.org/index.php/bmj/article/view/3950>)

Irbasmantini Syaiful, Ni Made Mertaniasih, Lindawati Alimsardjono, Pepy Dwi Endraswari, Arie Utariani, Budi Utomo

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ORIGINAL ARTICLE

Prevalence of multidrug-resistant Escherichia coli isolated from Jember hospital food handler in Indonesia (<https://balimedicaljournal.org/index.php/bmj/article/view/4015>)

Enny Suswati, Supangat, Laksmi Indreswari, Farhatina Nur U'alifa, Faiza Nabila, Inas Gama Putri Hertian

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Factors affecting patient safety culture in the nursing section of a type C private hospital in Surakarta using structural equation modeling (<https://balimedicaljournal.org/index.php/bmj/article/view/4074>)

Lobes Herdiman, Susy Susmartini, Dewani Asmara Sekartaji Pangau, I Gusti Ngurah Priambadi

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Helicobacter pylori detection in gastric biopsy: immunohistochemistry and toluidine blue comparison (<https://balimedicaljournal.org/index.php/bmj/article/view/4156>)

Ayu Lidya Paramita, Firman Setiawan, Willy Sandhika, Ni Made Mertaniasih, Arthur Pohan Kawilarang, Budi Utomo

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Challenge in prominent grade IV hemorrhoid management: a case report (<https://balimedicaljournal.org/index.php/bmj/article/view/3708>)

Bernardus Parish Budiono, Neni Susilaningsih, Sigit Adi Prasetyo, Melissa Angela Chionardes, Ignatius Riwanto

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ORIGINAL ARTICLE

Time to detection of Mycobacterium tuberculosis using culture filtrate H37rv supplementation on MGIT 960 System (<https://balimedicaljournal.org/index.php/bmj/article/view/3833>)

Resti Enggar Paweninggalih, Ni Made Mertaniasih, Eko Budi Koendhori, Soedarsono Soedarsono

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The effectiveness of incentive spirometry exercise on pulmonary function in COVID-19 survivors: a randomized controlled trial study (<https://balimedicaljournal.org/index.php/bmj/article/view/3956>)

Rosa Indah Kusumawardani, Damayanti Tinduh, Andriati, Dewi Poerwandari, Isnin Anang Marhana, Soenarnatalina Melaniani

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A novel preoperative scoring system to predict postoperative mortality after pancreaticoduodenectomy in pancreatic cancer patients at Dr. Soetomo General Hospital: a retrospective cohort study (<https://balimedicaljournal.org/index.php/bmj/article/view/4028>)

Arland Chandra, Tomy Lesmana

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Locomotion training addition to regular aerobic exercise improves walking speed and two-step test of the institutionalized older adult with Locomotive Syndrome stage 1: a randomized controlled trial (<https://balimedicaljournal.org/index.php/bmj/article/view/4085>)

Michael Prayogo, Rwahita Satyawati, Dyah Intania Sari, Damayanti Tinduh, Sri Mardjiati Mei Wulan, Yukio Mikami, Soenarnatalina Melaniani

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ORIGINAL ARTICLE

Balinese purnajiwa (Kopsia arborea Blume.) extract stimulates male rats' sexual behavior and plasma testosterone level (<https://balimedicaljournal.org/index.php/bmj/article/view/4163>)

I Gede Putu Wirawan, Maria Malida Vernandes Sasadara, I Made Jawi, Ida Ayu Putri Darmawati, I Nyoman Wijaya, Anak Agung Keswari Krisnandika, I Gde Nengah Adhilaksman Sunyamurthi, I Gusti Ngurah Alit Susanta Wirya

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ORIGINAL ARTICLE

Number of e-cadherin and VEGF in WiDr cell line post-induced by extract ethanol *Annona muricata* leaf (<https://balimedicaljournal.org/index.php/bmj/article/view/3736>)

Yoni Astuti, Agus Suharto, Sabtanti Harimurti, Helmi Hana Prinanda, Wahyu Joko Priambodo

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ORIGINAL ARTICLE

Association between immunoscore with lymphovascular invasion and clinical staging in colorectal cancer (<https://balimedicaljournal.org/index.php/bmj/article/view/4036>)

Raden Achmad Hussein Fachruddin, Wifanto Saditya Jeo

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ORIGINAL ARTICLE

The evaluation of Acehnese people's health insurance from the welfare perspectives (<https://balimedicaljournal.org/index.php/bmj/article/view/4188>)

Muhammad Yani, Rachmad Suhandi, Indrita Iqbalawati, Diah Ayu Puspendari, Hafasnuddin , Aditya Candra, Teuku Muhammad Ilzana, Teuku Muhammad Khaled, Cut Rizka Rahmi

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REVIEW

Low dose mannitol versus high dose mannitol to achieve brain relaxation in brain tumor surgery: a meta-analysis (<https://balimedicaljournal.org/index.php/bmj/article/view/4102>)

Gunna Hutomo Putra, Irwan Barlian Immadoel Haq, Rahadian Indarto Susilo, Joni Wahyuhadi

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REVIEW

Role of myostatin protein in sarcopenia (aging muscle) after conditioned medium umbilical cord mesenchymal stem cells (secretome) therapy: mini review (<https://balimedicaljournal.org/index.php/bmj/article/view/3790>)

Ronald Winardi Kartika, Veronika Maria Sidharta, Tena Djuartina, Ignatio Rika, Cynthia Retna Sartika, Kris Herawan Timotius

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REVIEW

Steroid impact on the efficacy and safety of SARS-CoV-2 vaccine: a systematic review (<https://balimedicaljournal.org/index.php/bmj/article/view/3947>)

Pujo Prawiro Negoro, Gatot Soegiarto, Laksmi Wulandari

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REVIEW

Utilizing information technology for optimizing LBW care: a systematic review (<https://balimedicaljournal.org/index.php/bmj/article/view/3771>)

Romdzati, Dessie Wanda

Online First: Feb 3, 2023 |

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REVIEW

Association between *Ascaris lumbricoides* infection and undernutrition in children: a systematic review and meta-analysis (<https://balimedicaljournal.org/index.php/bmj/article/view/3647>)

Putra Brillian Djohan, AmeliaAmelia Prasetyadi, Marcela Wirjanata, Nicolas Daniel Widjanarko, Antoninus Hengky, Ellen Wijaya, Yunisa Astiarani

Online First: Jan 5, 2023 |

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REVIEW

The important role of multi-sector partnership in stunting management in east java: a literature review (<https://balimedicaljournal.org/index.php/bmj/article/view/4157>)

Dini Setiarsih, Sa'bania Hari Raharjeng, Rizki Nurmalya Kardina, Paramita Viantri, Fildzah, Pratiwi Hariyani Putri, Achmad Syafiuddin, Rizki Amalia, Karina Widowati

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REVIEW

Knowledge, attitude, and skills of partograph utilization among health workers: a systematic review (<https://balimedicaljournal.org/index.php/bmj/article/view/3975>)

Alfun Dhiya An, Ova Emilia

Online First: Feb 4, 2023 |



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REVIEW

Hemostasis in liver surgery: Indonesian Society of Digestive Surgeons (IKABDI) consensus statements (<https://balimedicaljournal.org/index.php/bmj/article/view/4110>)

Arnetta Naomi Lalisang, Adiando Nugroho, Michael Tendean, Irwan, Indah Situmorang, Julianus A. Uwuratuw, Tomy Lesmana, Erik Prabowo, Adeodatus Y. Handaya, Agung A. Wibowo, Maria Mayasari, Yarman Mazni, Jeffri, Bambang Suprpto, Ahmad F. Fuadi, Fransiscus Arifin, Reno Rudiman, Toar J.M. Lalisang, Warsinggih

Online First: Feb 20, 2023 |

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REVIEW

Massage stimulation's effect on melatonin levels in preterm infants via vagal activity (<https://balimedicaljournal.org/index.php/bmj/article/view/3986>)

Diah Budiarti, Ahmad Suryawan

Online First: Jan 16, 2023 |

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REVIEW

Evidence of Dioxin as Endocrine Disrupting Chemicals in the Development of Endometriosis: A Narrative Review (<https://balimedicaljournal.org/index.php/bmj/article/view/3816>)

Shafira Meidyana

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REVIEW

The presence of stem cells in ovarian cancer: a review (<https://balimedicaljournal.org/index.php/bmj/article/view/4011>)

Tricia Dewi Anggraeni, Jenivia Thiono, Intan Winta Pratiwi, Ariananda Hariadi, Tera Dria Kispa, Aria Kekalih, Brahmana Askandar, Lisnawati, Ani Retno Prijanti, Mohamad Farid Aziz, Hariyono Winarto, Marselina Irasonia Tan, Andrijono

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REVIEW

Exclusive breast milk by working mothers as a new habit: a literature review (<https://balimedicaljournal.org/index.php/bmj/article/view/4161>)

Dini Setiarsih, Rizki Amalia, Rizki Nurmalya Kardina

Online First: Feb 7, 2023 |



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REVIEW

Inflammatory markers for predicting severity, mortality, and need for intensive care treatments of a patient infected with covid-19: a scoping review (<https://balimedicaljournal.org/index.php/bmj/article/view/3751>)

Satriya Pranata, Aric Vranada, Yunie Armiyati, Amin Samiasih, Siti Aisah, Anna Kurnia, Priyo Sasmito, Yanuan Ben Olina, Antonius Rino Chapo

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 Abstract

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REVIEW

A systematic review and meta-analysis of the impact of obesity on postoperative outcomes for patients undergoing laparoscopic cholecystectomy (<https://balimedicaljournal.org/index.php/bmj/article/view/4056>)

Natalia Maria Christina, Jeremiah Hilkih Wijaya

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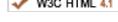
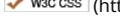
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The percentage of positive biopsy cores in predicting biochemical recurrence and adverse pathology in prostate cancer patients after radical prostatectomy: a systematic review and meta-analysis



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ABSTRACT

Background: Biochemical recurrence (BCR) occurs in more than one-third of prostate cancer (PCa) patients 10 years after radical prostatectomy. The percentage of positive biopsy cores (PPBC) obtained from prostate needle biopsy is suggested as one of the predictors of BCR. We aim to investigate the role of PPBC in predicting BCR and adverse pathology in PCa patients after RP.

Methods: A systematic search was conducted based on PRISMA guidelines from Pubmed, Scopus, and Cochrane Library databases up to July 2022. We screened studies that met our inclusion criteria and NOS (Newcastle-Ottawa Scale) was utilized as the quality assessment tool. The primary outcome was BCR measured as Hazard Ratios (HRs). The secondary outcome was adverse pathology, including positive surgical margin (PSM), Extra-prostatic disease (EPD), and seminal vesicle invasion (SVI). Review Manager[®]5.4 was used as the statistical analysis tool.

Results: A total of 5971 patients were included from eleven eligible studies with overall good quality scores. Eleven studies were included in the qualitative synthesis and five of them were analyzed in the meta-analysis. The pooled analysis demonstrated that higher PPBC has a 2.77 times risk of BCR (OR 2.77 (95% CI: 1.97, 3.9; $p < 0.00001$) after RP. Similarly, it has significant results in SVI (OR 2.61 (95% CI: 1.19, 5.73; $p = 0.02$). However, there were insignificant results in terms of EPD ($p = 0.17$) and PSM ($p = 0.33$).

Conclusion: This systematic review and meta-analysis (SRMA) indicate that a high PPBC is strongly correlated with a greater risk of BCR and SVI, but not EPD and PSM in patients following RP.

Keywords: percentage of positive prostate biopsy core, biochemical recurrence, adverse pathology, radical prostatectomy, prostate cancer.

Cite This Article: Fitra, A.F., Yogiswara, N., Djatisoesanto, W., Chung, E., Hakim, L. 2023. The percentage of positive biopsy cores in predicting biochemical recurrence and adverse pathology in prostate cancer patients after radical prostatectomy: a systematic review and meta-analysis. *Bali Medical Journal* 12(1): 283-290. DOI: 10.15562/bmj.v12i1.4075

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Received: 2022-10-25

Accepted: 2022-12-29

Published: 2023-01-20

INTRODUCTION

Prostate Cancer (PCa) is the second most common solid organ malignancy with a high mortality rate among men.¹⁻³ The prognosis of cancer survival is related to their stage at diagnosis and treatment.⁴⁻⁶ Contemporary literature supported radical prostatectomy (RP) as an effective treatment for localized disease.⁷⁻¹⁰ However, about thirty percent of all patients undergoing RP will have a biochemical recurrence (BCR) and high serum PSA levels within ten years.¹¹ Furthermore, pathological examination of RP specimens revealed that almost 50%

of patients are under-staged clinically.¹² Although considered as standard of care for localized PCa, RP is often not offered in high-risk PCa patients due to potentially higher adverse effects and rates of BCR.^{5,13,14}

Additional information in prostate needle biopsy had been evaluated to enhance the preoperative and postoperative prediction of pathological stage in patients undergoing RP, such as quantitative nuclear grade, percentage of biopsy cores, and the number of positive cores.¹⁵⁻¹⁸ In several studies, tumor volume, extracapsular extension, and seminal vesicle invasion have been predicted

using the percentage of positive biopsy cores (PPBC).¹⁹⁻²¹ Current research also used PPBC to predict biochemical failure after RP. However, the role of PPBC for predicting BCR and adverse pathology is still unclear and not yet stated in the recent guidelines. We created this SRMA to analyze the role PPBC in predicting BCR and adverse pathology in PCa patients after RP.

METHODS

Study design

This review was conducted in accordance with the Cochrane Handbook for

Systematic Reviews of Interventions and Preferred Reporting Items for Systematic Review and Meta-Analysis (PRISMA).^{23,24} The protocol of this review has been registered in PROSPERO (CRD42022337620).²⁵

Systematic search strategy

A systematic search was performed in Scopus, Cochrane Library, and Pubmed databases for studies published up to July 2022. The keywords used in this review were summarized in table 1.

Eligibility criteria

The included studies in this review focus on the PPBC in predicting BCR and adverse pathology in patients undergoing RP, including open, laparoscopic, and robotic-assisted procedures. We included studies with randomized trial designs and observational studies with at least one outcome of interest. Meta-analysis, systematic reviews, editorials, commentaries, letters, animal studies, abstract-only studies, case reports and case series without control, carcinoma in situ studies, and non-English language studies were excluded.

Data extraction and quality assessment

Two authors reviewed the titles or abstracts of studies found in the initial search while ruling out irrelevant studies. Full-text relevant studies were then collected and evaluated to find the one that matched the inclusion criteria. Both authors also evaluated the method of randomization and the adequacy of allocation concealment. The authors resolved internal disagreements related to study selection with discussion. The bias was evaluated by using Newcastle-Ottawa Scale (NOS).²⁶

Statistical analysis

The primary outcome analyzed in this study was BCR measured as Hazard Ratios (HRs) and secondary outcomes comprised of adverse pathology measured as Odds Ratios (ORs) with 95% Confidence Interval (95% CI).^{27,28}

Heterogeneity was assessed using the I^2 test. If the I^2 was less than 50%, the analysis indicated a low heterogeneity among the studies, hence a fixed-effects model

Table 1. Systematic search keywords.

Databases	Keywords
PubMed	((percent OR percentage) AND (positive cores OR positive biopsy OR positive biopsy cores)) AND prostate cancer AND ("biochemical recurrence" OR "adverse pathology" OR "seminal vesicle invasion" OR "positive surgical margin" OR "extraprostatic disease")
Cochrane Library	((percent OR percentage) AND (positive cores OR positive biopsy OR positive biopsy cores)) AND prostate cancer AND ("biochemical recurrence" OR "adverse pathology" OR "seminal vesicle invasion" OR "positive surgical margin" OR "extraprostatic disease")
Scopus	TITLE-ABS-KEY (((percent OR percentage) AND (positive AND cores OR positive AND biopsy OR positive AND biopsy AND cores)) AND prostate AND cancer AND ("biochemical recurrence" OR "adverse pathology" OR "seminal vesicle invasion" OR "positive surgical margin" OR "extraprostatic disease"))

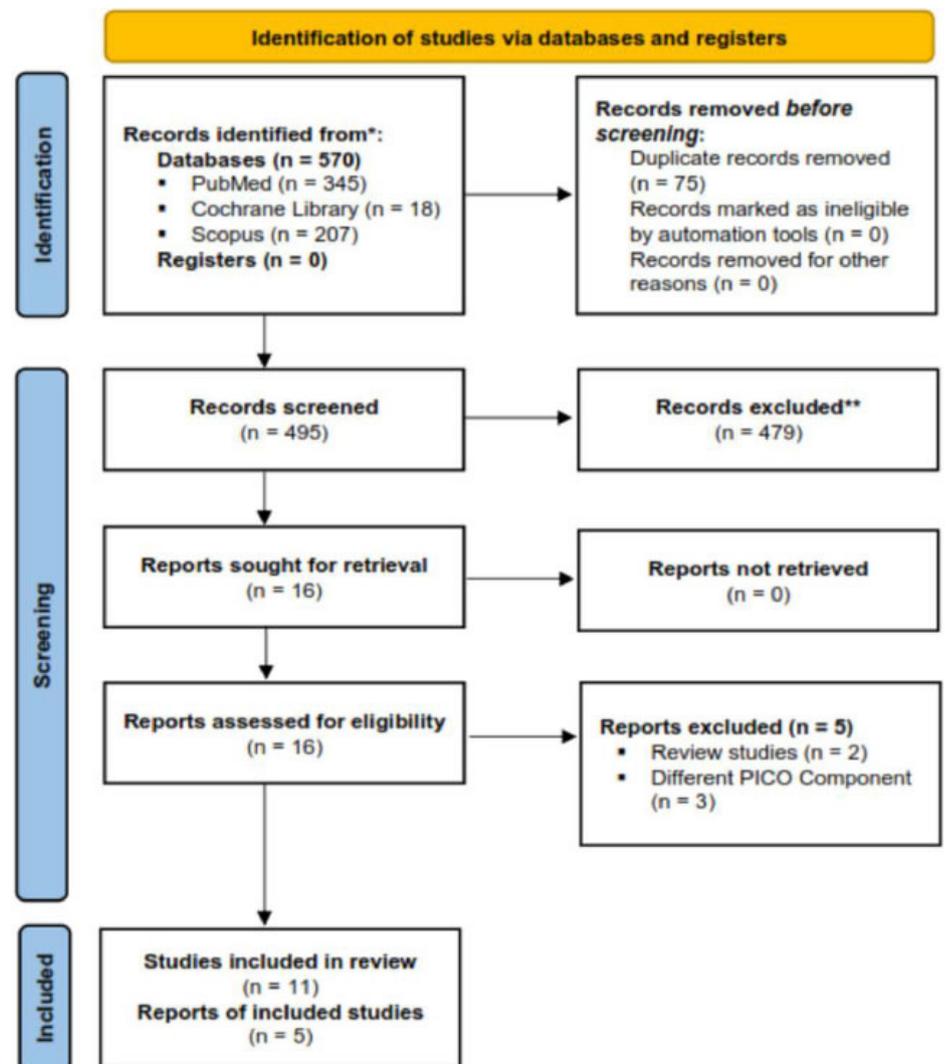


Figure 1. PRISMA Flow diagram of the screening process.

was selected for analysis. Otherwise, the random-effects model was selected for this analysis.²⁹ Review Manager[®] 5.4 (Cochrane Collaboration, UK) was used as the statistical analysis tool.

RESULTS

Systematic search results

A total of 570 initial studies were obtained from the systematic search. The number of articles found from each database is

Table 2. Study Characteristics.

No.	Author	Study Design	n	Age (years)	Clinical Stage	Pre-operative GS	Core-biopsy	Variable of PPBC
1.	Antunes et al. 2005	Cohort Retrospective	534	63	T1c, T2, T3	2-6: 423 (79.2) 7: 76 (14.2) 8-10: 35 (6.6)	TRUS, 6-18	Continuous
2.	Freedland et al. 2003	Cohort Retrospective	1094	62.6	T1, T2, T3	2-6: 752 (68) (3+4): 216 (19) >4+3: 145 (13)	US-guided, 6-30	Continuous
3.	Memis et al. 2011	Cohort Retrospective	156	62.1	T1c, T2a, T2b	5.2 ± 1.6	TRUS, ≥6	Dichotomous with cut-off 40%
4.	Russo et al. 2014	Cohort Retrospective	750	65.5	T1c, T2	NR	US-guided, 10-24	Dichotomous with cut-off 40%
5.	Suekane et al. 2007	Cohort Retrospective	117	66	T1c, T2a, T2b, T3c	NR	US-guided, ≥6	Continuous
6.	Mortensen et al. 2009	Cohort Retrospective	390	NR	T1c, T2a, T2b, T3	2-4: 62 5: 58 6: 138 7-10: 101	TRUS, ≥6	Continuous
7.	Oikawa et al. 2020	Cohort Retrospective	386	68	T1c, T2a, T2b, T2c, T3	NR	TRUS, 10-12	Continuous
8.	Grossfeld et al. 2002	Cohort Retrospective	1265	63.8	T1, T2, T3	2-6: 996 (78.9) 7(3+4): 128 (10) 7 (4+3): 46 (3.6) 8-10: 69 (6.5) 6: 3 (2) 7: 93 (47) 8-10: 102 (51)	NA, ≥6	Continuous
9.	Otsuka et al. 2018	Cohort Retrospective	198	69	T3a, T3b	3-5: 10 (2.1) 6: 342 (71.9) 7: 92 (19.3) 8: 22 (4.6) 9: 10 (2.1)	NA, 12-16	Dichotomous with cut-off 50%
10.	San Francisco et al. 2004	Cohort Retrospective	476	61	T1a, T1b, T1c, T2a, T2b	4-6: 399 (66%) 7: 168(22%) 8-10: 36 (6%)	TRUS, 3-16	Dichotomous with cut-off 28%
11.	Lotan et al. 2004	Cohort Retrospective	605	60.4	T1, T2		NA	Continuous

RRP: Radical Retropubic Prostatectomy; RP: Radical Prostatectomy; RARP: Robotic-assisted Radical Prostatectomy; GS: Gleason Score; NR: Not-recorded; TRUS: Trans-rectal ultrasonography; US: ultrasound; PPBC: Percentage of Positive Biopsy Core

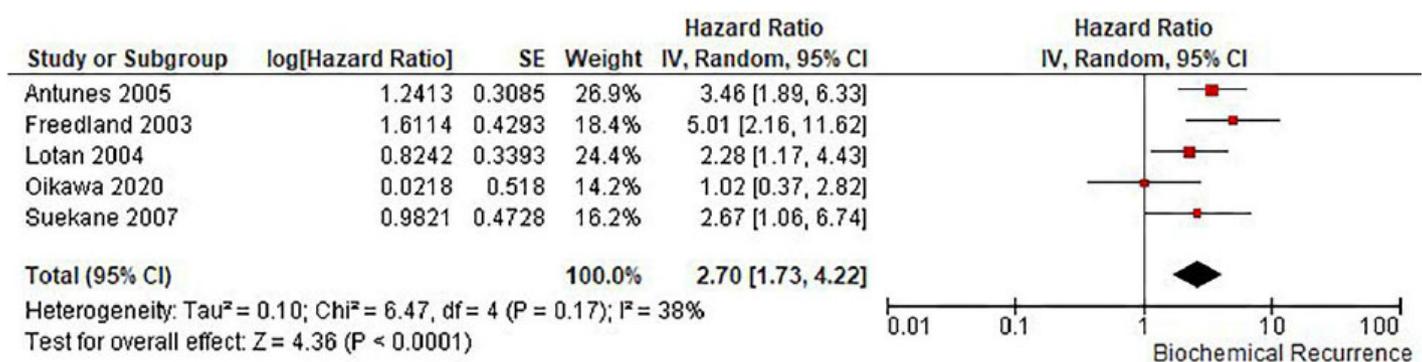
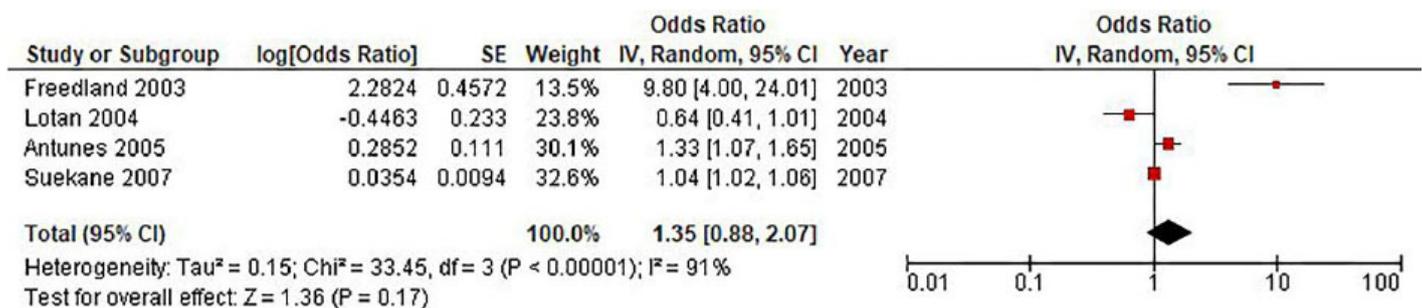
Table 3. Profiles after Treatment.

No.	Author	Treatment	pTNM Status (n)	Post-operative GS	PSA Cut-off Recurrence	The average duration of Follow-up	Outcome(s)
1.	Antunes et al. 2005	RP	T2 (401) T3 (133)	NR	0.4 ng/mL	60.5 months	BCR, EPD, SVI
2.	Freedland et al. 2003	RP	T2 (765) T3 (208) T4(23)	2-6: 589 (53) 3+4: 321 (29) >4+3: 203 (18)	0.2 ng/mL	29.5 months	BCR, PSM, EPD, SVI
3.	Memis et al. 2011	RP	T2a (41) T2b (47) T3a (23) T3b (15)	6.1 ± 1.5	0.2 ng/mL	23.6 months	EPD, PSM, SVI
4.	Russo et al. 2014	Open or laparoscopic RP	T2a (48) T2b (17) T2c (66) T3a (9) T3b (3)	NR	0.2 ng/mL	46 months	BCR, Unfavourable Disease
5.	Suekane et al. 2007	RP	N+ (9)	NR	0.2 ng/mL	64 months	BCR, EPD, PSM, SVI
6.	Mortensen et al. 2009	RP	NR	NR	NR	NR	NCD
7.	Oikawa et al. 2020	RP	T2a (102) T2b (31) T2c (253)	NR	NR	85.7 months	BCR
8.	Grossfeld et al. 2002	RP	NR	NR	0.2 ng/mL	39.6 months	BCR
9.	Otsuka et al. 2018	RP or RARP	T2 (60) T3 (132) T4 (6)	5-6: 2 (1) 7: 91 (46) 8-10: 105 (53)	0.2 ng/mL	36 months	BCR
10.	San Francisco et al. 2004	RP	T2 (434) T3 (37) N+ (5)	5-6: 311 (65.3) 7(3+4): 101 (21.2) 7(4+3): 33 (6.9) 8-9: 31 (6.5)	0.3 ng/mL	49 months	BCR
11.	Lotan et al. 2004	RP	T2 (407) T3a (168) T3b (55) N+ (32)	4-6: 245 (40%) 7: 300 (50%) 8-10: 60 (10%)	0.2 ng/mL	43.7 months	BCR, EPD, SVI

RP: Radical Prostatectomy; RARP: Robotic-assisted Radical Prostatectomy; GS: Gleason Score; PSA: Prostate-specific Antigen; BCR: Biochemical Recurrence; EPD: Extra Prostatic Disease; SVI: Seminal Vesicle Invasion; PSM: Positive Surgical Margin; NR: Not-recorded

Table 4. Risk of bias of the included studies according to the Newcastle-Ottawa Scale (NOS).

Included Studies	Selection			Comparability		Outcome		Total Score
Antunes et al. 2005	*	*	*	*	*	*	*	6
Freedland et al. 2003	*	*	*	*	*	*	*	7
Memis et al. 2011	*		*	*	*	*	*	6
Russo et al. 2014	*	*	*	*	*	*	*	7
Suekane et al. 2007	*	*	*	*	*	*	*	7
Mortensen et al. 2009	*	*	*	*	*	*	*	7
Oikawa et al. 2020	*	*	*	*	*	*	*	7
Grossfeld et al. 2002	*	*	*	*	*	*	*	7
Otsuka et al. 2018	*		*	*	*	*	*	6
San Fransisco et al. 2004	*	*	*	*	*	*	*	7
Lotan et al. 2004	*	*	*	*	*	*	*	7

**Figure 2.** Pooled hazard ratio of the percentage of positive biopsy cores in predicting biochemical recurrence after radical prostatectomy.**Figure 3.** Pooled odds ratio of the percentage of positive biopsy cores in predicting extra prostatic disease.

shown in table 1. Out of the obtained studies, 75 duplicates were removed. Primary screening resulted in sixteen articles, which were further evaluated for eligibility. A total of eleven studies were included for qualitative synthesis and five studies for meta-analysis. A summary of this systematic screening process is shown in the PRISMA flowchart (Figure 1).

Study characteristics

A total of 5971 patients from eleven relevant studies were included in the analysis. The study characteristics and profiles after treatment are displayed in

table 2 and 3. The included studies used different PSA cut-offs for defining BCR, ranging from 0.2-0.4 ng/mL. The median follow-up ranged from 23.6-85.7 months in PCa patients with the cT1-T3 disease. Adverse pathology was also evaluated including seminal vesicle invasion, extra-prostatic disease, and positive surgical margin.

Risk of bias

We assessed the risk of bias using Newcastle-Ottawa Scale (NOS). There were three studies with moderate risk and eight studies with low risk of bias. A

resume of the tool can be seen in table 4. All studies included in this systematic review and meta-analysis are non-randomized studies, thus, there is a possibility of selection bias. Studies by Memis et al. and Otsuka et al. has lower NOS score than other included studies since there was no description of the derivation of the non-exposed cohort.^{6,12}

PPBC in predicting BCR

A total of five studies reported BCR in PCa patients after RP. The pooled hazard ratio was 2.77 (95% CI: 1.97, 3.9; $p < 0.00001$). The forest plot in figure 2 shows that the

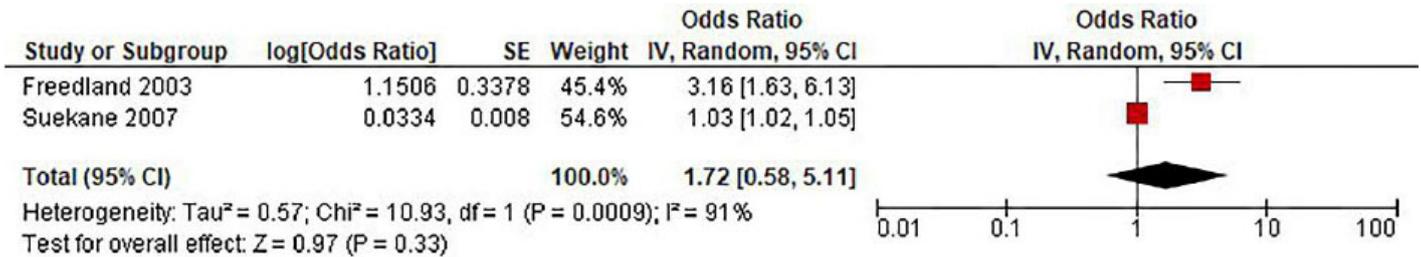


Figure 4. Pooled odds ratio of the percentage of positive biopsy cores in predicting positive surgical margin.

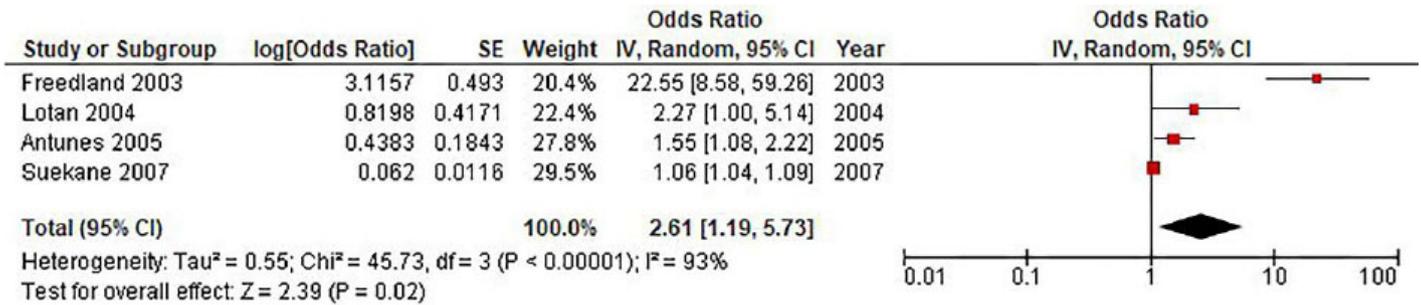


Figure 5. Pooled odds ratio of the percentage of positive biopsy cores in predicting seminal vesicle invasion.

included studies had low heterogeneity (heterogeneity $p = 0.17$, $I^2 = 38\%$), and thus, the fixed-effect model was chosen for the analysis.

PPBC in predicting extra prostatic disease

Figure 3 shows the pooled estimated effect size of PPBC in predicting extra prostatic disease. The forest plot from the combined analysis of the four studies indicated high heterogeneity (heterogeneity $p < 0.00001$, $I^2 = 91\%$). Therefore, the random-effect model was selected for analysis. The meta-analysis revealed that there was no significant result of PPBC in predicting EPD (OR 1.35, 95% CI: 0.88, 2.07; $p = 0.17$).

PPBC in predicting positive surgical margin

Two studies reported positive surgical margins in PCa patients after RP. The pooled odds ratio was 1.72 (95% CI: 0.58, 5.11; $p = 0.33$), as shown in figure 4. The forest plot in figure 4 shows that the included studies had high heterogeneity (heterogeneity $p = 0.0009$, $I^2 = 91\%$), and thus, the random-effect model was chosen.

PPBC in predicting seminal vesicle invasion

A total of four studies reported seminal vesicle invasion in PCa patients undergoing

RP. The pooled OR was 2.61 (95% CI: 1.19, 5.73; $p = 0.02$). The random-effect model was used for the analysis since it has high heterogeneity (heterogeneity $p < 0.00001$, $I^2 = 93\%$), which is shown in figure 5.

DISCUSSION

This is the first SRMA evaluating the role of the PPBC in predicting BCR and adverse pathology in PCa patients after RP. Our study included eleven articles evaluating the role of PPBC in predicting at least one outcome of interest. Our main finding showed that a higher PPBC is significantly associated with a higher risk of BCR and seminal vesicle invasion after the patients underwent RP.

A Study by Otsuka et al. reported that after 46 months of follow-up, PCa patients with PPBC > 50% would have 2.86 times higher risk of developing BCR after RP.⁶ BCR may developed in up to 44% of patients with the mean follow-up 64 months after RP.²² Selected pathological aspects, including percentage of Gleason grade 4/5, preoperative biopsy cores, and PSA density, have been shown to predict the risk of BCR after RP.²² Similarly, Lotan et al. found that the number of positive biopsies and PPBC were associated with the risk of BCR, seminal vesicle invasion, extracapsular extension, regional lymph nodes metastases, perineural and lympho-

vascular invasion, and positive surgical margin status in patients undergoing RP.³⁰

Antunes et al. reported more than 500 patients undergoing RP and bilateral pelvic lymphadenectomy where patients with a lower PPBC had a lower mean of preoperative PSA level than the one with higher PPBC. The PPBC < 25% was also associated with clinical stage T1c, while majority of patients with PPBC > 25% had T2 or T3. In multivariate analysis, the authors found that the serum PSA level cannot accurately predict the risk of extra-prostatic disease, although PPBC was an independent predictor of seminal vesicle involvement and extra-prostatic extension.¹¹

Multivariate analysis from San Francisco et al. showed that the patients with PPBC higher than 28% would have 3.62 times higher risk of developing BCR with a median follow-up of 49 months after RP.³¹ In a different paper, Freedland et al. also concluded that the PPBC independently predicted BCR and adverse pathology including seminal vesicle invasion, positive surgical margin status, and extra-prostatic extension following RP. The cutoff points for PPBC were less than 34%, 34% to 50%, and more than 50% provided significant risk stratification for BCR between them.³²

Not only after RP, a study by Kestin et al. showed that PPBC is also a

powerful predictor of biochemical and clinical outcomes for PCa treated with radiotherapy. It suggested that PPBC should be considered as a primary factor in risk group stratification for PCa.³³ However, Zapatero et al. analyzing PCa patients undergoing radiotherapy revealed no significant association between high PPBC and clinical, pathological, and treatment factors. This could be due to the small sample size and number of events.³⁴

A retrospective study from Memis et al. supported that PPBC from the dominant side of the prostate may become a parameter for predicting adverse pathology, particularly in terms of non-organ-confined disease and biochemical failure after RRP.¹² A study by Grossfeld et al. analyzing 938 patients with intermediate and high-risk PCa reported that a higher PPBC was associated with lower 5-year disease-free survival (DFS).³⁵

Russo et al. researched some predictive factors for low-risk PCa patients who became active surveillance candidates. Cancer involvement in positive cores less than 0.4 mm had a significantly better 3- and 5-year biochemical recurrence-free survival (BRFS).³⁶

The fraction of PPBC could also provide additional prognostic value in addition to T-stage and Gleason scores, to independently predict extra-prostatic disease.³⁷ Oikawa et al. demonstrated that PPBC could anticipate preoperative covariates in patients with pT2 PCa and negative resection margin status after RP where the BRFS rate was significantly higher in patients with a positive biopsy core $\leq 20\%$ than those with $\geq 21\%$.³⁸

The clinical tumor, Gleason score, and PSA level are already stated in the recent EAU guidelines in predicting BCR.³⁹ Considering the usefulness of PPBC as mentioned above, we want to include it as a quantitative parameter to predict BCR. This present study indicates that PPBC is useful in predicting BCR and SVI risk after RP. This parameter should be reported in all prostate needle biopsy results before deciding the prompt treatment for localized PCa.

There were several limitations existed in this study. Some outcomes in this study had a significant heterogeneity due to differences in studies baseline

characteristics such as clinical stage, the number of biopsy cores taken, and PSA cut-off for BCR. All studies included in this systematic review and meta-analysis are non-randomized studies, thus, there is a possibility of bias due to various confounding factors that can affect the final results. Some included studies used continuous variables and the others used dichotomous variables with PPBC cut-off. We only analyzed studies using continuous variables since three studies used different cut-offs.^{12,22,36} However, all studies using cut-offs also showed that the group with high PPBC had higher risk of BCR.

Our findings highlighted the role of PPBC in predicting the risk of BCR and SVI in patients with prostate cancer after RP.

CONCLUSION

This SRMA found that a higher percentage of PPBC among PCa patients undergoing RP is associated with higher risk of BCR and SVI but not EPD and PSM.

CONFLICTS OF INTEREST

The authors declare that they have no conflict of interest.

FUNDING SOURCE

This work was supported by Program Beasiswa Dokter Spesialis of the Indonesian Endowment Fund for Education (LPDP) Scholarship, Ministry of Finance.

ETHICS COMMITTEE APPROVAL

This systematic review and meta-analysis do not require ethical approval.

AUTHOR CONTRIBUTION

- Ahmad Fathira Fitra (A.F.F.) is involved in the concept and project design, materials, literature search, data collection and/or processing, analysis and/or interpretation, writing the manuscript, and final approval of the version to be submitted.
- Niwanda Yogiswara (N.Y.) is involved in the materials, literature search, data collection and/or processing, analysis and/or interpretation, writing the manuscript, and final approval of the version to be submitted.

- Wahjoe Djatisoesanto (W.D.) is involved in the concept and project design, supervision, resources, materials, literature search, data collection and/or processing, analysis and/or interpretation, writing the manuscript, and final approval of the version to be submitted.
- Eric Chung (E.C.) is involved in the supervision, resources, materials, writing the manuscript, and final approval of the version to be submitted.
- Lukman Hakim (L.H.) is involved in the concept and project design, supervision, resources, materials, literature search, data collection and/or processing, analysis and/or interpretation, writing the manuscript, and final approval of the version to be submitted.

REGISTRATION OF RESEARCH STUDY

- Name of the registry: PROSPERO
- Unique Identifying number or registration ID: CRD42022337620
- Hyperlink to registration: https://www.crd.york.ac.uk/prospero/display_record.php?RecordID=337620

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