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Publisher: Dove Medical Press

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**COUNTRY**

New Zealand



Universities and research institutions in New Zealand

**SUBJECT AREA AND CATEGORY**

Medicine  
Medicine (miscellaneous)

Nursing  
Nursing (miscellaneous)

**PUBLISHER**

Dove Medical Press Ltd.

**H-INDEX**

**37**

**PUBLICATION TYPE**

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**ISSN**

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**COVERAGE**

2008-2021

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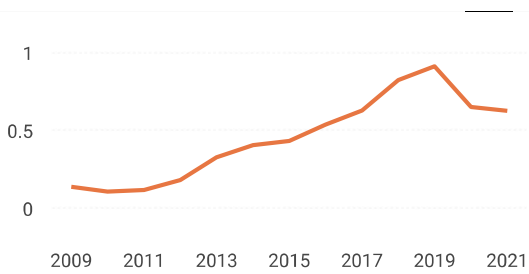
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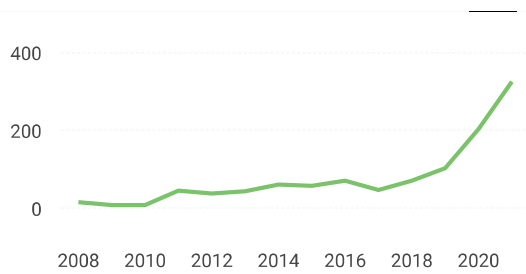
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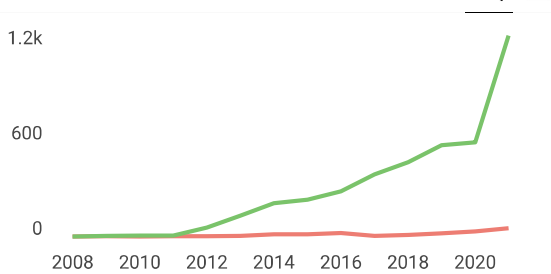
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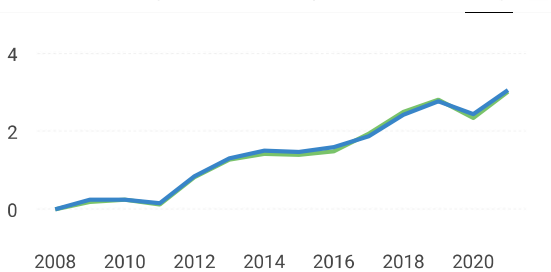
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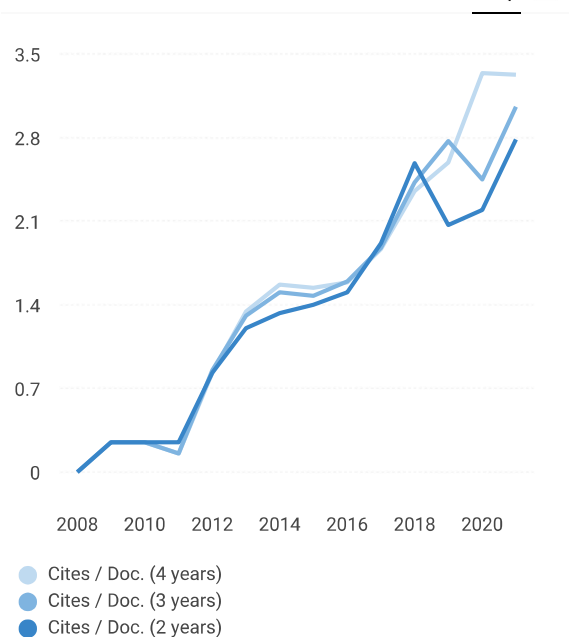
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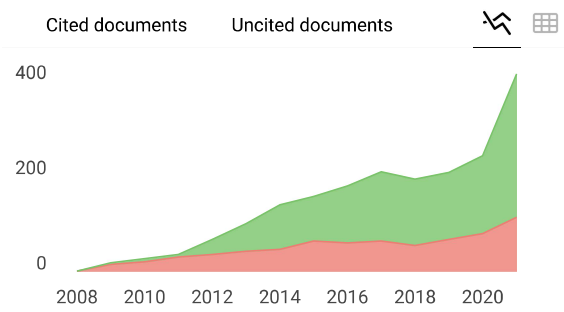
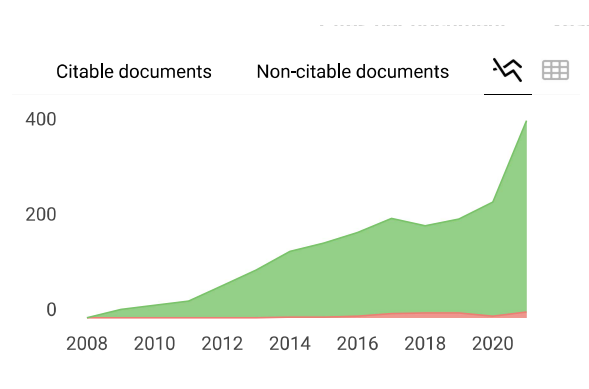


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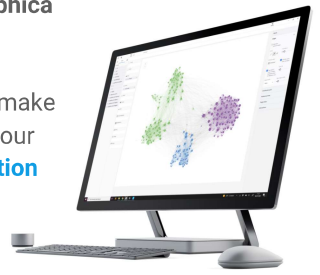
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**Melanie Ortiz** 1 year ago

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Best Regards, SCImago Team



**lourenco** 2 years ago

muito boa revista.

gostaria de ter todas as informações da mesma.

reply



**Melanie Ortiz** 2 years ago

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Best Regards, SCImago Team

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**Guido Lombardo** 3 years ago

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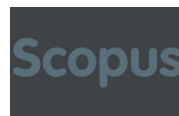
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Herawati DMD, Sunjaya DK, Gumilang L, Adistie F, Dewi Judistiani RT, Yuniati T, Handono B  
[Journal of Multidisciplinary Healthcare 2022](#), 15:1887-1899

Published Date: **31 August 2022**

ORIGINAL RESEARCH

### **Realities of Using Drones to Transport Laboratory Samples: Insights from Attended Routes in a Mixed-Methods Study**

Comtet HE, Keitsch M, Johannessen KA  
[Journal of Multidisciplinary Healthcare 2022](#), 15:1871-1885

Published Date: **31 August 2022**

ORIGINAL RESEARCH

### **Depression is Associated with the Increase Risk of Multimorbidity Among the General Population in Indonesia**

Sinaga IOY, Barliana MI, Pradipta IS, Iskandarsyah A, Abdulah R, Alfian SD  
[Journal of Multidisciplinary Healthcare 2022](#), 15:1863-1870

Published Date: **30 August 2022**

REVIEW

### **Calcium Channel Blocker Toxicity: A Practical Approach**

Alshaya OA, Alhamed A, Althewaibi S, Fetyani L, Alshehri S, Alnashmi F, Alharbi S, Alrashed M, Alqifari SF, Alshaya AI

[Journal of Multidisciplinary Healthcare 2022](#), 15:1851-1862

Published Date: **30 August 2022**

ORIGINAL RESEARCH

### **The Influence of COVID-19 Pandemic on Influenza Immunization in Saudi Arabia: Cross-Sectional Study**

Minshawi F, Samannodi M, Alwafi H, Assaggaf HM, Almatrafi MA, Salawati E, Alsafi R, Alharbi RA, Alduais RF, Alrehaili M, Tariq S, Alghamdi R, Almatrifi S

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Published Date: **30 August 2022**

REVIEW

### **Review on Nanomaterials and Nano-Scaled Systems for Topical and Systemic Delivery of Antifungal Drugs**

Nagasa GD, Belete A  
[Journal of Multidisciplinary Healthcare 2022](#), 15:1819-1840

Published Date: **27 August 2022**

ORIGINAL RESEARCH

### **The Need for Speed: A Qualitative Study on Nurse Recruitment and Management Amidst the COVID-19 Pandemic in Indonesia**

Efendi F, Aurizki GE, Auwalin I, McKenna L  
[Journal of Multidisciplinary Healthcare 2022](#), 15:1809-1817

Published Date: **27 August 2022**

ORIGINAL RESEARCH

### **Factors Associated with Nutritional Risk in Patients with Pulmonary Tuberculosis and Structural Lung Disease: A Hospital-Based Cross-Sectional Study**

Wang X, Luo L, Zhang D, Wang J, Ning X, Lin Y, Ke X, Li G  
[Journal of Multidisciplinary Healthcare 2022](#), 15:1799-1807

Published Date: **26 August 2022**

ORIGINAL RESEARCH

Published Date: **25 August 2022**

ORIGINAL RESEARCH

### **Management of Low Back Pain in Primary Health-Care Settings: Physician's Awareness and Practices Based on Red Flags**

Arishy AM, Mahfouz MS, Khalafalla HE, Atteya MME, Khormi YH

[Journal of Multidisciplinary Healthcare 2022](#), 15:1779-1788

Published Date: **25 August 2022**

ORIGINAL RESEARCH 

### **Knowledge, Attitudes, and Practices Regarding Ergonomic Hazards Among Healthcare Workers in a Saudi Government Hospital**



ALHazim SS, Al-Otaibi ST, Herzallah NH

[Journal of Multidisciplinary Healthcare 2022](#), 15:1771-1778

Published Date: **24 August 2022**

ORIGINAL RESEARCH

### **Acceptability and Willingness of UAE Residents to Use OTC Vending Machines to Deliver Self-Testing Kits for COVID-19 and the Implications**

Jairoun AA, Al hemyari SS, Abdulla NM, Shahwan M, Hashim Jaber Bilal F, AL-Tamimi SK, Jairoun M, Zyoud SH, Kurdi A, Godman B

[Journal of Multidisciplinary Healthcare 2022](#), 15:1759-1770

Published Date: **23 August 2022**

ORIGINAL RESEARCH

### **The Actual Role of Iterative Reconstruction Algorithm Methods in Several Saudi Hospitals As A Tool For Radiation Dose Minimization of Ct Scan Examinations**

Alsleem H, Tajaldeen A, Almutairi A, Almohiy H, Aldaais E, Albattat R, Alsleem M, Abuelhia E, Kheiralla OAM, Alqahtani A, Alghamdi S, Aljondi R, Alharbi R

[Journal of Multidisciplinary Healthcare 2022](#), 15:1747-1757

Published Date: **19 August 2022**

ORIGINAL RESEARCH

### **COVID-19 Vaccine Acceptance and Associated Factors Among College Students in Dessie City, Northeastern Ethiopia**

Berihun G, Walle Z, Teshome D, Berhanu L, Derso M

[Journal of Multidisciplinary Healthcare 2022](#), 15:1735-1746

Published Date: **13 August 2022**

ORIGINAL RESEARCH

### **Childhood Cancer Survivors' Adherence to Healthcare Recommendations Made Through a Distance-Delivered Survivorship Program**

Alchin JE, Signorelli C, McLoone JK, Wakefield CE, Fardell JE, Johnston K, Cohn RJ

[Journal of Multidisciplinary Healthcare 2022](#), 15:1719-1734

Published Date: **12 August 2022**

ORIGINAL RESEARCH

### **Time to Recovery of Severely Ill COVID-19 Patients and its Predictors: A Retrospective Cohort Study in Tigray, Ethiopia**

Abebe HT, Zelelow YB, Bezabih AM, Ashebir MM, Tafere GR, Wuneh AD, Araya MG, Kiros NK, Hiluf MK, Ebrahim MM, Gebrehiwot TG, Welderufael AL, Mohammed AH

[Journal of Multidisciplinary Healthcare 2022](#), 15:1709-1718

Published Date: **11 August 2022**

ORIGINAL RESEARCH

### **Nurse-Physician Inter-Professional Collaboration and Associated Factors at Public Hospitals in Dessie City, Amhara, Northeastern Ethiopia, 2021**

Endrie Y W/Sabecia M, Edmeslam A, Adama S, Yimam W, Zenebe Y

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**Clinical Survey of Current Perioperative Body Temperature Management: What Major Factors Influence Effective Hypothermia Prevention Practice?**

Deng X, Yan J, Wang S, Li Y, Shi Y

[Journal of Multidisciplinary Healthcare 2022](#), 15:1689-1696

Published Date: **8 August 2022**

ORIGINAL RESEARCH

**Hormonal Contraception Use and Depression Among Women in Saudi Arabia**

Albawardi I, Alqahtani AH, Aljamea DA, Aljaafari SA, Aldulijan FA, Almuhaideb SR, Elamin M, Al Qahtani NH

[Journal of Multidisciplinary Healthcare 2022](#), 15:1677-1688

Published Date: **5 August 2022**

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**The Efficacy of Hospice Care for Terminally Ill Emergency Patients During the Coronavirus 2019 Pandemic**

Wang QL, Han BR, Yue P

[Journal of Multidisciplinary Healthcare 2022](#), 15:1667-1676

Published Date: **4 August 2022**

ORIGINAL RESEARCH

**Paramedic Ability in Interpreting Electrocardiogram with ST-segment Elevation Myocardial Infarction (STEMI) in Saudi Arabia**

Alrumayh AA, Mubarak AM, Almazrua AA, Alharthi MZ, Alatef DF, Albacker TB, Samarkandy FM, Alsofayan YM, Alobaida M

[Journal of Multidisciplinary Healthcare 2022](#), 15:1657-1665

Published Date: **4 August 2022**

ORIGINAL RESEARCH

**Dietary Patterns and Hypertensive Disorders Among Pregnant Women Attending Antenatal and Delivery Care in Public Hospitals of Jimma Zone, Southwest Ethiopia**

Kidane R, Eshete T, Sintayehu T, Belachew T

[Journal of Multidisciplinary Healthcare 2022](#), 15:1645-1656

Published Date: **30 July 2022**

RESPONSE TO LETTER

**Commentary on "Efficacy of the Use of the Calgary Family Intervention Model in Bedside Nursing Education: A Systematic Review" [Response to Letter]**

Mileski M, McClay R

[Journal of Multidisciplinary Healthcare 2022](#), 15:1643-1644

Published Date: **1 August 2022**

ORIGINAL RESEARCH

**A Case-Control Study of the MTHFR C665T Gene Polymorphism on Macrocytic Anemia Among HIV-Infected Patients Receiving Zidovudine**

Pertiwi D, Sofro MAU, Winarni TI, Probandari AN

[Journal of Multidisciplinary Healthcare 2022](#), 15:1633-1641

Published Date: **29 July 2022**

ORIGINAL RESEARCH

**Risk Factors of Microvascular Complications Among Type 2 Diabetic Patients Using Cox Proportional Hazards Models: A Cohort Study in Tabuk Saudi Arabia**

Saiyed NS, Yagoub U, Al Qahtani B, Al Zahrani AM, Al Hariri I, Syed MJ, Elmardi ME, Tufail MA, Manajreh M

[Journal of Multidisciplinary Healthcare 2022](#), 15:1619-1632

Published Date: **27 July 2022**

REVIEW 

ORIGINAL RESEARCH

### **Prevalence and Characteristics of Prediabetes and Metabolic Syndrome in Seemingly Healthy Persons at a Health Check-Up Clinic**

Tangjittipokin W, Srisawat L, Teerawattanapong N, Narkdontri T, Homsanit M, Plengvidhya N

[Journal of Multidisciplinary Healthcare 2022](#), 15:1585-1594

Published Date: **23 July 2022**

ORIGINAL RESEARCH

### **All Types Obesity and Physical Inactivity Associated with the Risk of Activity of Daily Living Limitations Among People with Asthma**

Alhammad SA, Alwadeai KS

[Journal of Multidisciplinary Healthcare 2022](#), 15:1573-1583

Published Date: **22 July 2022**

ORIGINAL RESEARCH 

### **Is It Important to Increase Physical Activity Among University Students During the Second-Wave COVID-19 Pandemic in Asian Countries? A Cross-Sectional Study of the Knowledge, Attitudes, and Practices in Asian Countries**



Sari DK, Mani S, Fadli M, Ihksan R, Machrina Y, Arrasyid NK, Siregar KB, Sunarno A

[Journal of Multidisciplinary Healthcare 2022](#), 15:1559-1571

Published Date: **21 July 2022**

ORIGINAL RESEARCH

### **Epidemiological Factors of Periodontal Disease Among South Indian Adults**

Selvaraj S, Naing NN, Wan-Arfah N, Djearamane S, Wong LS, Subramaniyan V, Fuloria NK, Sekar M, Fuloria S, de Abreu MHNG

[Journal of Multidisciplinary Healthcare 2022](#), 15:1547-1557

Published Date: **20 July 2022**

ORIGINAL RESEARCH

### **Differences in NAFLD/NASH Management by Provider Specialty: Opportunities for Optimizing Multidisciplinary Care**

Porayko MK, Articolo A, Cerenzia W, Coleman B, Patel D, Stacy S

[Journal of Multidisciplinary Healthcare 2022](#), 15:1533-1545

Published Date: **19 July 2022**

SHORT REPORT

### **Does Interprofessional Scenario-Based Simulation Training Change Attitudes Towards Interprofessional Learning – A Pretest-Posttest Study**

Reime MH, Aarflot M, Kvam FI

[Journal of Multidisciplinary Healthcare 2022](#), 15:1527-1532

Published Date: **19 July 2022**

LETTER

### **A Response to: Efficacy of the Use of the Calgary Family Intervention Model in Bedside Nursing Education: A Systematic Review [Letter]**

Tarigan SB, Priastana IKA

[Journal of Multidisciplinary Healthcare 2022](#), 15:1525-1526

Published Date: **19 July 2022**

REVIEW 

### **Problems Facing Healthcare Providers When Caring for COVID-19 Patients: An Integrative Review**

Mediani HS, Adistie F, Hendrawati S, Trisyani Y

[Journal of Multidisciplinary Healthcare 2022](#), 15:1511-1523

Published Date: **19 July 2022**

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ORIGINAL RESEARCH

### **Dyslipidemia and Its Associated Factors Among Helicobacter pylori-Infected Patients Attending at University of Gondar Comprehensive Specialized Hospital, Gondar, North-West Ethiopia: A Comparative Cross-Sectional Study**

Nigatie M, Melak T, Asmelash D, Worede A

[Journal of Multidisciplinary Healthcare 2022](#), 15:1481-1491

Published Date: **15 July 2022**

REVIEW

### **Monitoring and Managing Patients with Tuberos Sclerosis Complex: Current State of Knowledge**

Gomes I, Jesus Ribeiro J, Palavra F

[Journal of Multidisciplinary Healthcare 2022](#), 15:1469-1480

Published Date: **14 July 2022**

ORIGINAL RESEARCH

### **Perceptions on Data Quality, Use, and Management Following the Adoption of Tablet-Based Electronic Health Records: Results from a Pre-Post Survey with District Health Officers in Ghana**

Lee S, Lee YJ, Kim S, Choi W, Jeong Y, Rhim NJ, Seo I, Kim SY

[Journal of Multidisciplinary Healthcare 2022](#), 15:1457-1468

Published Date: **12 July 2022**

ORIGINAL RESEARCH

### **Developing a Mobile Health Application to Communicate Adverse Drug Reactions – Preconditions, Assessment of Possible Functionalities and Barriers for Patients and Their General Practitioners**

Wakob I, Schmid GL, Nöhrling I, Elze R, Sultzer R, Frese T, Schiek S, Bertsche T

[Journal of Multidisciplinary Healthcare 2022](#), 15:1445-1455

Published Date: **8 July 2022**

REVIEW

### **Efficacy and Safety of Tranexamic Acid in Cancer Surgery. An Update of Clinical Findings and Ongoing Research**

Zec T, Di Napoli R, Fievez L, Ben Aziz M, Ottaiano A, Vittori A, Perri F, Cascella M

[Journal of Multidisciplinary Healthcare 2022](#), 15:1427-1444

Published Date: **5 July 2022**

ORIGINAL RESEARCH

### **From "Cure" to "Care": The Role of the MultiDisciplinary Team on Colorectal Cancer Patients' Satisfaction and Oncological Outcomes**

Lucarini A, Garbarino GM, Orlandi P, Garofalo E, Bragaglia L, Laracca GG, Canali G, Pecoraro A, Mercantini P

[Journal of Multidisciplinary Healthcare 2022](#), 15:1415-1426

Published Date: **27 June 2022**

ORIGINAL RESEARCH

### **Antibiotic Resistance Profiles of Bacteria Isolated from Hotspot Environments in Bahir Dar City, Northwestern Ethiopia**



Geta K, Kibret M

[Journal of Multidisciplinary Healthcare 2022](#), 15:1403-1414

Published Date: **25 June 2022**

ORIGINAL RESEARCH

### **Challenges in Implementing the WHO Hospital Readiness Checklist for the COVID-19 Pandemic in Indonesian Hospitals: A Qualitative Study**

Dhamanti I, Rachman T, Nurhaida I, Muhamad R

## Evaluation of Policy Governing Herbal Medicines Regulation and Its Implementation in Ethiopia

Demeke H, Hasen G, Sosengo T, Siraj J, Tatiparthi R, Suleman S

[Journal of Multidisciplinary Healthcare 2022](#), 15:1383-1394

Published Date: **22 June 2022**

ORIGINAL RESEARCH 

## Multidisciplinary Student Groups Support Digital Education as a Public Health Precautional Action to Prevent Spread of COVID-19 Infection: A Mixed Methods Study

Almendingen K, Skotheim T, Ervik B, Magnus EM

[Journal of Multidisciplinary Healthcare 2022](#), 15:1369-1382

Published Date: **21 June 2022**

REVIEW

## Integrating Oral Health into Primary Health Care: A Systematic Review of Oral Health Training in Sub-Saharan Africa

Kaguru G, Ayah R, Mutave R, Mugambi C

[Journal of Multidisciplinary Healthcare 2022](#), 15:1361-1367

Published Date: **21 June 2022**

ORIGINAL RESEARCH

## Why an IPE Team Matters... Improvement in Identification of Hospital Hazards: A Room of Horrors Pilot Study

Reime MH, Molloy MA, Blodgett TJ, Telnes KI

[Journal of Multidisciplinary Healthcare 2022](#), 15:1349-1360

Published Date: **18 June 2022**

REVIEW

## Efficacy of the Use of the Calgary Family Intervention Model in Bedside Nursing Education: A Systematic Review

Mileski M, McClay R, Heinemann K, Dray G

[Journal of Multidisciplinary Healthcare 2022](#), 15:1323-1347

Published Date: **16 June 2022**

ORIGINAL RESEARCH

## Pandemic Responsiveness in an Acute Care Setting: A Community Hospital's Utilization of Operational Resources During COVID-19

McLean J, Clark C, McKee A, Legue S, Cocking J, Lamarche A, Heerschap C, Morris S, Fletcher T, McKee C, Kennedy K, Gross L, Broeren A, Forder M, Barner W, Tebbutt C, Kings S, DiDiodato G

[Journal of Multidisciplinary Healthcare 2022](#), 15:1309-1321

Published Date: **14 June 2022**

ORIGINAL RESEARCH

## Psychological Impact of COVID-19 on Doctors and Medical Students of Punjab, Pakistan: A Logistic Regression Analysis

Junaid Tahir M, Tariq W, Anas Tahseen Asar M, Irfan Malik M, Kamal Akhtar F, Malik M, Akhtar Q, Abbasher Hussien Mohamed Ahmed K, Talha Awan M, Ullah K, Asghar MS

[Journal of Multidisciplinary Healthcare 2022](#), 15:1297-1308

Published Date: **8 June 2022**

REVIEW

## Multidisciplinary Management of Costello Syndrome: Current Perspectives

Leoni C, Viscogliosi G, Tartaglia M, Aoki Y, Zampino G

[Journal of Multidisciplinary Healthcare 2022](#), 15:1277-1296

Published Date: **2 June 2022**

REVIEW

## Generalized Arterial Calcification of Infancy (GACI): Optimizing Care with a

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ORIGINAL RESEARCH 

### **Interprofessional Treatment of Malnutrition and Sarcopenia by Dietitians and Physiotherapists: Exploring Attitudes, Interprofessional Identity, Facilitators, Barriers, and Occurrence**

Reinders JJ, Hobbelen JSM, Tieland M, Weijs PJM, Jager-Wittenaar H

[Journal of Multidisciplinary Healthcare 2022](#), 15:1247-1260

Published Date: **31 May 2022**

ORIGINAL RESEARCH

### **Analysis and Review of the Countermeasures Required for Medical Staff's Cognition of Relevant Laws and Regulations in the Coronavirus 2019 Context**

Chang Y, Guo S, Zhang H, Yuan B, Xu J

[Journal of Multidisciplinary Healthcare 2022](#), 15:1237-1245

Published Date: **30 May 2022**

ORIGINAL RESEARCH

### **Time to Death and Predictors Among Neonates with Esophageal Atresia in Ethiopia**

Misganaw NM, Sebsbie G, Adimasu M, Getaneh FB, Arage G, GebreEyesus FA, Bayih WA, Chanie ES, Bantie B, Kerebeh G, Birhanu D, Jemere T, Mengist A, Kassaw A

[Journal of Multidisciplinary Healthcare 2022](#), 15:1225-1235

Published Date: **30 May 2022**

ORIGINAL RESEARCH

### **A Case Study of Critical Reasons Behind Hospital Nurses Turnover Due to Challenges Across System Levels**

Eriksson A, Vulkan P, Dellve L

[Journal of Multidisciplinary Healthcare 2022](#), 15:1213-1224

Published Date: **25 May 2022**

ORIGINAL RESEARCH 

### **Clinical Impact of the Capacity-Motivation-Opportunity Pharmacist-Led Intervention in People Living with HIV in Spain, 2019–2020**

Morillo-Verdugo R, Robustillo-Cortes MDLA, Navarro-Ruiz A, Sánchez-Rubio Ferrandez J, Fernández Espínola S, Fernández-Pacheco García-Valdecasas M, Vélez-Díaz-Pallares M

[Journal of Multidisciplinary Healthcare 2022](#), 15:1203-1211

Published Date: **24 May 2022**

ORIGINAL RESEARCH

### **Survival Time to COVID-19 Severity and Its Predictors in South Gondar Zone, North-West Ethiopia: A Prospective Cohort Study**

Yemata GA, Tesfaw A, Mihret G, Tiruneh M, Walle Z, Molla E, Sisay E, Admassu FT, Habtie E, Desalagn T, Shimels H, Teshome F

[Journal of Multidisciplinary Healthcare 2022](#), 15:1187-1201

Published Date: **23 May 2022**

ORIGINAL RESEARCH

### **Health Workers' Knowledge and Attitude Towards Intimate Partner Violence: A Descriptive Study in Sidama Region, Southern Ethiopia**

Belay S, Astatkie A, Hinderaker SG

[Journal of Multidisciplinary Healthcare 2022](#), 15:1175-1185

Published Date: **23 May 2022**

ORIGINAL RESEARCH

### **A Qualitative Study of Older Adults' Experiences of Embedding Physical Activity Within Their Home Care Services in Ireland**

Burton E, Horgan NF, Cummins V, Warters A, Swan L, O'Sullivan M, Skelton DA, Townley B, Doyle F, Jabakhanji SB, Sorensen J, Rooney D, Murphy L, Galvin R

[Journal of Multidisciplinary Healthcare 2022](#), 15:1162-1172

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## Translation and Validation of the Indonesian Version of the Adverse Drug Reaction Severity Level Instruments in Colorectal Cancer Patients



Susilo R, Diantini A, Lukman K, Perwitasari DA, Kunaedi A

[Journal of Multidisciplinary Healthcare 2022](#), 15:1153-1161

Published Date: **19 May 2022**

ORIGINAL RESEARCH

## Evaluation of Drug Use Pattern in Pediatric Outpatient Clinics in a Tertiary Teaching Hospital Using WHO Drug-Prescribing Indicators

Aldabagh A, Abu Farha R, Karout S, Itani R, Abu Hammour K, Alefishat E

[Journal of Multidisciplinary Healthcare 2022](#), 15:1143-1151

Published Date: **18 May 2022**

REVIEW

## Dietary Supplementations and Depression

Thurfah JN, Christine, Bagaskhara PP, Alfian SD, Puspitasari IM

[Journal of Multidisciplinary Healthcare 2022](#), 15:1121-1141

Published Date: **17 May 2022**

ORIGINAL RESEARCH

## Improving the Quality of Emergency Intrahospital Transport for Critically Ill Patients by Using Toyota Production System Methods

Lu KK, Zhang MM, Zhu YL, Ye C, Li M

[Journal of Multidisciplinary Healthcare 2022](#), 15:1111-1120

Published Date: **17 May 2022**

REVIEW

## Association Between Symptoms and Severity of Disease in Hospitalised Novel Coronavirus (COVID-19) Patients: A Systematic Review and Meta-Analysis

Talukder A, Razu SR, Alif SM, Rahman MA, Islam SMS

[Journal of Multidisciplinary Healthcare 2022](#), 15:1101-1110

Published Date: **12 May 2022**

ORIGINAL RESEARCH

## Is the Hospital Value-Based Purchasing Program Associated with Reduced Hospital Readmissions?

Beauvais B, Whitaker Z, Kim F, Anderson B

[Journal of Multidisciplinary Healthcare 2022](#), 15:1089-1099

Published Date: **12 May 2022**

SHORT REPORT

## Laboratory Surge Response to the COVID-19 Pandemic: An Incident Command System Approach

Chuang HN, Shih CH, Tsai HW, Jiang RS, Hsiao TH, Liu PY, Jan YJ, Wang JM

[Journal of Multidisciplinary Healthcare 2022](#), 15:1083-1088

Published Date: **11 May 2022**

ORIGINAL RESEARCH

## Factors Affecting the Knowledge and Motivation of Health Cadres in Stunting Prevention Among Children in Indonesia

Mediani HS, Hendrawati S, Pahria T, Mediawati AS, Suryani M

[Journal of Multidisciplinary Healthcare 2022](#), 15:1069-1082

Published Date: **11 May 2022**

ORIGINAL RESEARCH

## Feasibility and Relevance of an Intervention with Systematic Screening as a Base for Individualized Rehabilitation in Breast Cancer Patients: A Pilot Trial of the ReScreen Randomized Controlled Trial

Oliver M, Mubandira M, Sidiq F, Olsson M, Mubandira M

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## **Knowledge, Attitudes, and Misconceptions About COVID-19 Prevention Practices Among High and Preparatory School Students in Dessie City, Ethiopia**

Feleke A, Adane M, Embrandiri A, Berihun G, Walle Z, Keleb A, Kloos H

[Journal of Multidisciplinary Healthcare 2022](#), 15:1035-1055

Published Date: **10 May 2022**

ORIGINAL RESEARCH

## **Factors Associated with Handgrip Strength Among Older Adults in Malaysia**

Shah SA, Safian N, Mohammad Z, Nurumal SR, Wan Ibadullah WAH, Mansor J, Ahmad S, Hassan MR, Shobugawa Y

[Journal of Multidisciplinary Healthcare 2022](#), 15:1023-1034

Published Date: **10 May 2022**

ORIGINAL RESEARCH

## **Novel Approach to the Actions for Causes Elimination of Staff Resistance to Innovative Change**

Drejeris R, Drejeriene E

[Journal of Multidisciplinary Healthcare 2022](#), 15:1011-1022

Published Date: **6 May 2022**

ORIGINAL RESEARCH

## **The Added Value of a Multidisciplinary Clinic for Systemic Autoinflammatory Diseases**

Zinterl C, Costa-Reis P, Esteves IC, Marques JG, Sousa AB, Fonseca JE, Oliveira Ramos F

[Journal of Multidisciplinary Healthcare 2022](#), 15:999-1010

Published Date: **4 May 2022**

ORIGINAL RESEARCH

## **Effectiveness and Implementation Outcome Measures of Mental Health Curriculum Intervention Using Social Media to Improve the Mental Health Literacy of Adolescents**

Hassen HM, Behera MR, Jena PK, Dewey RS, Disassa GA

[Journal of Multidisciplinary Healthcare 2022](#), 15:979-997

Published Date: **3 May 2022**

ORIGINAL RESEARCH

## **Older Persons' Views on Important Values in Swedish Home Care Service: A Semi-Structured Interview Study**

Olsen M, Udo C, Dahlberg L, Boström AM

[Journal of Multidisciplinary Healthcare 2022](#), 15:967-977

Published Date: **2 May 2022**

ORIGINAL RESEARCH

## **Translation, Validation, and Psychometric Evaluation of the Diabetes Quality-of-Life Brief Clinical Inventory: The Urdu Version**

Haider S, Saleem F, Ahmad N, Iqbal Q, Bashaar M

[Journal of Multidisciplinary Healthcare 2022](#), 15:955-966

Published Date: **29 April 2022**

ORIGINAL RESEARCH 

## **Public Attitude Towards COVID-19 Vaccination: Validation of COVID-Vaccination Attitude Scale (C-VAS)**

Alam MM, Melhim LKB, Ahmad MT, Jemmali M

[Journal of Multidisciplinary Healthcare 2022](#), 15:941-954

Published Date: **29 April 2022**

REVIEW

## **Behavioral Interventions for the Patient-Caregiver Unit in Patients with**

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STUDY PROTOCOL

**A WeChat-Based Rehabilitation Platform for Children and Adolescents with Congenital Heart Disease to Promote Cardiac FITness (HeartFIT): Protocol for a Mixed-Methods Strategy from Evidence-Based Design to Pilot Study**

Li Y, Zhou Y, Chen M, Fu MR, Luo B, Yu P, Zheng H, Liu F

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### **Challenges of Anticoagulation Management Service and Need of Establishing Pharmacist-Led Anticoagulation Clinic in Tertiary Care Teaching Hospital, Ethiopia: A Qualitative Study**

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### Professor Campbell

Prof. of Clinical Redesign, Nursing, School of Health Sciences, University of Tasmania, Australia

EDITOR IN CHIEF

#### Editor-in-Chief: Professor Steve Campbell

Prof. Campbell undertook his undergraduate education at the Department of Nursing at the University of Manchester in the 1970s, worked as a Health Visitor and then undertook specialist training in children's nursing. During the 1990s, he was chair of the Association of British Paediatric Nurses, and was founding editor of Child Health journal (now with Sage). He gained his PhD on the topic of mouth care for sick children from Northumbria University. He was made the founding Chair of Nursing Practice at this institution in 2000, leading the Nursing Practice Research Centre at City Hospitals Sunderland, UK. This is where he developed his international



Professor Campbell

reputation for translational research. He has published widely and is currently editor-in-chief of two journals. He became Head of the School of Health at the University of New England, NSW, in 2009, where he reinvigorated the teaching and research capacity. He moved to the University of Tasmania in January 2013, to become Head of Nursing and Midwifery, then Head of the School of Health Sciences and is now Professor of Clinical Redesign, Nursing. He was an executive member of the Council of Deans of Nursing and Midwifery (Australia and New Zealand), and a member of the Council of Deans of Health Science.

Prof. Campbell has a long history of translational research, with nearly 100 publications in the applied health arena. Prof. Campbell led Northumbria University's Nursing Practice Research Centre from 2000 until 2008. As part of this work he led the NHS funded "Delivery of Care" research programme. Most notably Prof. Campbell developed novel methodological approaches to change, such as his Patient Journey approach. Via this method he led the redevelopment of 18 clinical services from a patient/carer view point, but in partnership with health management and clinical leaders, as well as ensuring that national and international clinical guidelines are fulfilled.

Another aspect of Prof. Campbell's scholarship is in the arena of leadership, with evaluation and innovation expertise in its development. Prof. Campbell is also pioneering the use of the Four Frames of complex organisations in the health services arena.

Prof. Campbell is the joint national lead of the Health Management Research Alliance (Australia). A major part of this work has been the Positive Organisational Scholarship in Health approach, heralding a move away from simply reducing the number or errors, to embracing areas of great success and learning from those areas and making these approaches more pervasive.

Prof. Campbell also has a notable history of the development and evaluation of new and developing roles in the health services. These roles have included nurse consultants, Lecturer/Practitioners and

**Dr Fraser**

Consultant Ophthalmologist, Sunderland Eye Infirmary, United Kingdom

EDITOR IN CHIEF

**Editor-in-Chief: Professor Scott Fraser**

Professor Scott Fraser is a consultant ophthalmologist at Sunderland Eye Infirmary in the North East of the UK. He is also honorary lecturer at the University of Newcastle Upon Tyne and visiting professor at the University of Sunderland. He is a member of the Royal College of Surgeons of Edinburgh and the Royal College of Ophthalmologists.

He trained as an ophthalmologist initially in Newcastle and then completed his training at Moorfields Eye Hospital. At Moorfields he was also a research fellow initially looking into risk factors for late presentation of glaucoma and later as the Friend of Moorfields funded researcher looking at the genetics of glaucoma. He was awarded his MD in 2000.

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# The Stress of Leprosy as a Mediator of the Relationship Between Coping Resources, Coping Strategies, and Psychological Well-Being in Persons Affected by Leprosy. The Structural Equation Models Through a Correlation Study

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**Introduction:** Psychological strength plays an important role in reducing stress due to leprosy because leprosy can cause physical, psychological, and social problems. For that reason, this study aims to investigate the relationship between coping sources, coping strategies, and psychological well-being through leprosy stress.

**Methods:** This research instrument uses a stress perception scale, coping sources, coping strategies, and psychological well-being scale to collect data from 125 participants consisting of women (33.60%) and men 66.40%. The test analysis in this study uses SmartPLS through structural equation modeling to prove the correlation.

**Results:** The results of the SEM test indicate that there is a negative relationship between coping resources and leprosy stress, with a coefficient value of (-0.380), p-value of (0.000) <0.05, and a positive relationship is obtained with psychological well-being with the coefficient value of (0.427), p-value of (0.000) <0.05. Meanwhile, the SEM test shows a negative relationship between coping strategies and stress of leprosy, with the coefficient of (-0.566), p-value of (0.000) <0.05, and a positive relationship is obtained with psychological well-being (0.355), p-value of (0.000) < 0.05. Furthermore, on psychological well-being, stress shows a negative relationship, with the coefficient of (-0.212), p-value of (0.002).

**Discussion:** Exploration of important coping sources is done to weaken the power of leprosy as a stressor and the use of effective coping strategies is needed to solve physical, psychological, and social problems for “People Affected by Leprosy”, and simultaneously these two attributes are used to achieve prosperity. psychological. better.

**Keywords:** stress leprosy, coping resources, coping strategies, psychological well-being

## Introduction

Potential discrimination against Persons affected by leprosy because of deformities and disabilities that are visible prevents them from being actively involved in social interactions, thus having a wide impact on their life processes.<sup>1</sup> Based on the Weekly epidemiological record report, the completion rate of treatment for Persons affected by leprosy, Type Multi Basiler is 88.3%, and Type Pause Basiler is 93.8%. Meanwhile in Indonesia, completion of treatment for the Multi-Bacillary type was 86.7%, and for the Pause, Basiler type was 87.5% with 419 recurrences and 425 returning to treatment<sup>2</sup> For this reason, the Indonesian government has implemented many measures to reduce morbidity and disability in leprosy, such as MDT drug treatment, early detection of leprosy, household contact checks, and epidemiological surveillance. Leprosy has spread globally and currently, no drug can prevent the occurrence of leprosy reactions

as the initial cause of disability,<sup>3</sup> as well as the difficulty of controlling stigma and discrimination,<sup>4</sup> and this situation has a significant impact on economic, social, and psychological.<sup>5</sup>

Meanwhile, the label of leprosy which more dominantly affects mental and emotional than the dangers of the disease itself, makes Persons affected by leprosy withdraw from the association in society.<sup>6</sup> Besides, stigma and discrimination by the community add to the burden of suffering.<sup>7</sup> This stressful atmosphere has a negative impact on the pattern of life in society and socio-economics<sup>8</sup> so that factors related to mental-emotional protection and daily functioning are important to identify. The focus of mental health services to protect and prevent individuals from psychological disorders is an important force in ensuring the psychological well-being of people with leprosy. Therefore, to deal with mental pressure both from oneself and from the community, focus on individual fighting power is the dominant factor to avoid the mental burden. In this domain, coping resources<sup>9</sup> and coping strategies<sup>10,11</sup> as a protective factor in helping to prevent emotional mental disorders will be very effective against the negative effects of leprosy.

Research that evaluates the impact of leprosy from a mental health perspective usually focuses on emotional mental disorders,<sup>12</sup> and focuses on indicators of a healthy psychological outlook, such as coping resources,<sup>13</sup> coping strategy,<sup>14</sup> and psychological well-being,<sup>15</sup> which are very effective for developing better mental health. In this case, analyzing the influence of leprosy stress and psychological well-being as psychological forces can provide important information about how a person can survive mentally and emotionally while suffering from leprosy with the risks faced throughout his life. This is why protective factors related to how to deal with stressful situations due to leprosy must be observed, not just mental-emotional disorders causes. Regarding the pressure due to leprosy, although there have been many reports of previous research on the use of coping resources and coping strategies as a protective factor or psychological well-being as emotional and mental parameters, however, there are still no reports on this study from the perspective of the individual "Persons Affected by Leprosy".

## Stress Due to Leprosy

Maybe only "Persons Affected by Leprosy" is shunned by the community even though there are many other chronic infectious diseases, because this disease is seen as a curse, unclean, and a recompense from God for his actions.<sup>16</sup> As for him, the burden of depression and anxiety is part of their daily life.<sup>17</sup> For this reason, it is inevitable that stressful situations are experienced by people with leprosy, because the effects caused by leprosy can affect the emotional mentality of the sufferer and his family.<sup>12</sup> However, stress can also be a source of motivation that leads individuals to take protective action to seek medical help in dealing with stressful situations,<sup>18,19</sup> and this is also done by "Person affected by leprosy".<sup>20</sup> However, the uncertainty surrounding the risk of permanent disability due to leprosy reactions that occur before, during, and after treatment, Persons Affected by Leprosy experience prolonged mental stress, which affects their well-being of them and their families,<sup>21</sup> and this is always related to the chosen coping strategy.<sup>22</sup> For individuals who do not have physical problems, they may feel optimistic and very flexible in using coping because they have taken a number of very strategic steps in dealing with their problems.<sup>23</sup> However, it could be that the stressor inspires individuals to use various coping strategies because they have prepared various alternative coping sources and set realistic goals.

## Coping Resources as a Protective Factor in Preventing the Occurrence of Leprosy Stress

The source of coping is one of the elements of positive psychology and is an important instrument that can be proven as a protector in preventing mental stress for chronic diseases,<sup>24</sup> where this may also apply to stress due to leprosy. Coping resources are a very important initial capital for developing coping strategies for problem-solving efforts in ensuring psychological well-being, and this involves the availability of personal and environmental resources.<sup>25</sup> Based on the stress resource conservation model, that the size of a person's resources to deal with stressors is the most important factor in predicting the amount of perceived stress.<sup>26</sup> Meanwhile, Lazarus & Folkman (1984) made it clear through the view of transactional stress, that the instability between the need to deal with stressors and the available resources can trigger stress, and this makes excessive demands to cope with stressors so that it can burden personal resources.<sup>27</sup>

As long as the perception of the label “Persons Affected by Leprosy” cannot be separated in personal life and the environment, the application of individual coping resources is less effective, while the risk of severity due to leprosy can increase.<sup>3</sup> This is why coping resources can be considered as an important component for PWL to overcome fear, anxiety, depression, increase self-esteem, and stress due to leprosy. The results of studies that report that the use of coping resources helps to create effective stress management strategies and adjustment to stressful situations can support this view.<sup>28</sup> Besides, coping resources have a positive relationship with life satisfaction,<sup>27</sup> all of which are indicators of better psychological well-being. Furthermore, it has also been reported that coping resources not only protect a person against stress attacks but can also be used as an assessment of certain situations and predict coping behavior.<sup>29</sup> Following this reasoning, strong coping resources are most likely associated with stressful situations of leprosy.

## Coping Strategies as Facilitators in Preventing the Psychological Distress of Leprosy

Coping strategies are cognitive and behavioral responses that are used as facilitators to control the side effects of stressful situations.<sup>30</sup> From this perspective, individuals with multiple coping strategies, have high flexibility, so it is very beneficial and is likely to be able to modify stress to a lesser extent, so that several of the available coping strategies provide different benefits and roles, depending on the nature, type, and quality of the stressor.<sup>31</sup> Thus, having several coping strategies can be used as a security guarantee for the happiness of those who have many stressors. And the leprosy label has encouraged people with leprosy to choose the various alternative of coping related to various fields such as self-care, environmental care, and nutritional needs,<sup>32</sup> maintain social relations,<sup>1</sup> medication regimen adherence,<sup>33</sup> and stress management.<sup>34</sup> Furthermore, if the development of new modes of behavior is considered as a goal of protection against leprosy, then coping strategies will be an important attribute when trying to achieve that goal. An important aspect of coping strategies is that people with leprosy can create a happy emotional atmosphere, especially when facilitated by strong personal resilience,<sup>35</sup> improved quality of life<sup>36</sup> and psychological resilience.<sup>37</sup> Thus, naturally, a person may have a strong desire to identify various coping strategies and apply new modes of behavior for leprosy healing that motivate the person to do better now and in the future. The findings in this study, that there is a positive relationship between coping strategies and coping resources, especially when in a stressful environment, support this view.<sup>25</sup> Likewise, the intervention program of leprosy treatment is used as an effective coping strategy to reduce psychological symptoms and their recovery.<sup>20</sup> When these findings are taken as a whole, coping strategies can be considered to play a protective role in stimulating better mental health and overcoming the psychological problems caused by leprosy.

## Psychological Well-Being for Better Mental Health

Prosperous individuals are those who are relatively stressed and have better mental health status but stressful situations due to leprosy can affect their psychological well-being.<sup>38</sup> The more pleasant experiences they have, the more happiness they will get in life. Thus, they will feel a feeling of well-being, which becomes a guarantee for their happiness. But, leprosy keeps them from feeling happy and prosperous.<sup>39</sup> Thus, the stressful conditions due to leprosy will reduce happiness among individuals and have an impact on their mental condition. Several studies report that leprosy causes psychological disorders.<sup>17,40</sup> Along with this, positive psychology-based intervention programs have been found to reduce stressful conditions and increase happiness.<sup>41–43</sup> This finding supports the notion that a stressful situation will have a negative correlation with psychological well-being. In addition, factors that are considered to prevent stressful situations for leprosy, such as coping resources<sup>9</sup> and coping strategies,<sup>44,45</sup> have a positive correlation effect with psychological well-being.

Thus, two hypotheses (Hs) were determined based on the research above; (H1) the relationship between coping strategies and psychological well-being through stress leprosy and (H2) the relationship between coping strategies and psychological well-being through stress leprosy.

## Methods

### Participants and Procedures

Participants and procedures

Data were obtained from participants who were treated in the Leprosy Poly Room at the “Dr. Sutomo” Surabaya, using the convenience sampling method using IBMSPSS Statistics version 20, conducted between March 2021 to June 2021. The research sample was “Persons Affected by Leprosy”, consisting of 42 (33.60%) women and 83 (66.40%) men. The mean age of participants > 15 years was 122 participants (97.60%), and <15 years were 3 (2.40%) participants. Regarding marital status, 65 (52%) participants were married, and 60 (48%) participants were unmarried. In addition, based on employment status, 65 (52%) participants worked and 60 (48%) participants did not work. Meanwhile, based on the incidence of leprosy reactions, once as many as 63 (50.40%) participants, twice as many as 14 (11.20%) participants, three times as many as 12 (9.60%) participants, four times as many as 15 (12.00%) participants, five times as many as 12 (9.60%) participants, and more than 5 times as many as 9 (7.20%) participants, and the details can be seen in Table 1.

Questionnaires were given to people with leprosy in paper and pencil format in Indonesian. Written informed consent and signatures were obtained from participants after the researcher provided brief information about the study. Written informed consent was also obtained from child participants who were represented and signed by parents. Next, participants completed a four-step anonymous self-report to avoid response bias. Because the questionnaire is anonymous, individual participants cannot be identified.

**Table 1** Results of the Analysis of Respondents Characteristics

Characteristics	Category	Frequency	Percentage (%)
Gender	Men	83	66.40
	Women	42	33.60
Age	< 15 Years	3	2.40
	> 15 Years	122	97.60
Marital status	Married	65	52.00
	Not Household	60	48.00
Level of education	No school	6	4.80
	Primary school	9	7.20
	Junior high school	23	18.40
	Senior High School	57	45.60
	Diploma / College	30	24.00
Employment status	Employed	65	52.00
	Unemployed	60	48.00
Types of Leprosy	MB	47	37.60
	PB	78	62.40
Sick time	< 1 Years	45	36.00
	1 Years	66	52.80
	2 Years	2	1.60
	≥ 4 Years	12	9.60
Leprosy Reaction	1 Time	63	50.40
	2 Time	14	11.20
	3 Time	12	9.60
	4 Time	15	12.00
	5 Time	12	9.60
	> 5 Time	9	7.20
Leprosy Family	Yes	6	4.8
	No	119	95.2



The researchers explained that participants could withdraw from the study whenever they wanted. Each participant takes approximately 15 to 20 minutes to complete all questionnaires.

## Measurement

### Psychological Well-Being

Psychological well-being was measured using the psychological well-being scale of leprosy which consisted of 18 items. The psychological well-being scale from CD Ryff was used as a development of this psychological well-being scale.<sup>46</sup> Psychological well-being scale responses to leprosy were made on a 4-point Likert scale (1 = strongly disagree and 4 = strongly agree). Higher scores indicate better psychological well-being. This psychological well-being scale has been developed according to the Turkish version. The total variance explained was 68% and factor loadings ranged from 0.30 to 0.94. Internal consistencies varied between 0.87 and 0.96 and test-retest reliability coefficients ranged between 0.78 and 0.97.<sup>47</sup> In this study, the researcher developed the psychological well-being scale from CD Ryff in the Indonesian version for data collection.

### Leprosy Stress

Stress was measured using a leprosy stress scale consisting of 14 items as a result of the development of the perceived stress scale<sup>48</sup> experienced by leprosy patients during the past month. The response to the leprosy stress scale was made on a 5-point Likert scale (0 = never and 4 = very often). Higher scores indicate stronger stress. This perceived stress scale has been developed according to the Iranian version, and the results of Confirmatory Factor Analysis (CFA) show that the data is acceptable with the two-factor model (Perceived Helplessness and Perceived Self-Efficacy) PSS-10 ( $v^2 / df = 2.58$ , CFI = 0.96; RMSEA = 0.081 and SRMR = 0.061), and in this study, the perceived stress scale has a Cronbach's  $\alpha$  value of 0.842.<sup>49</sup> In this study, the researcher developed the perceived stress scale in the Indonesian version for data collection.

### Coping Resources

Coping resources were measured using the scale of the coping resources for leprosy as a result of the development of the coping resources inventory for stress<sup>50</sup> designed to expand personal resources in dealing with stress. The coping resources scale was made on a 4-point Likert scale (1 = strongly disagree and 4 = strongly agree). Higher scores indicate broader coping resources. This coping resources scale has been adopted and developed according to the Iranian version, and in this study, the coping resources inventory for stress has an acceptable reliability coefficient value, with a Cronbach's  $\alpha$  of 0.79, a Mean of 42.93, and SD of 11.72.<sup>51</sup> In this study, the researcher developed the coping resources inventory for stress in the Indonesian version for data collection.

### Coping Strategies

Coping strategies were measured using a coping strategies scale consisting of 15 items. Coping Strategies Inventory Short-Form (CSI-SF)<sup>52</sup> was used as the development of the leprosy coping strategies scale. The response to the coping strategies scale was made on a 4-point Likert scale (1 = strongly disagree and 4 = strongly agree). Higher scores indicate better coping strategies. This coping strategies scale has been identified based on a systematic review related to the reliability and validity of the coping strategy inventory-short form applied to hemodialysis patients in 13 countries in the Department of Epidemiology, School of Public Health, University of Michigan, Ann Arbor, MI, United States in which the results was Comparative Fit Index (CFI)  $\geq 0.90$ ; Goodness of Fit Index (GFI)  $\geq 0.90$ ; Standardized Root Mean Square Residual (SRMR) 0.08; and a root mean square error of approximation (RMSEA)  $\leq 0.08$ , whereas good internal consistency ( $\alpha = 0.56-0.80$ ).<sup>53</sup> In this study, the researcher developed the Coping Strategies Inventory Short-Form (CSI-SF) in the Indonesian version for data collection.

## Statistical Analysis

Descriptive data for each variable which includes data on coping sources, coping strategies, psychological well-being, and stress of leprosy were tested using descriptive statistical analysis (mean and standard deviation) using IBMSPSS Statistics version 20. While the analysis of the relationship test of coping sources, coping strategies, and psychological

well-being through leprosy stress, used SEM (Structural Equation Modeling) analysis with Smart-PLS (Partial Least Square). The first time the researcher assesses whether each latent variable is represented by its indicator. The structural model is then tested using the maximum likelihood estimate in Smart-PLS if the measurement model turns out to be significant. The index of covariance structure analysis recommended by Hu, Li-tze and Bentler, Peter M. (1999) was used to evaluate the overall fit of the model with the data.<sup>54</sup>

First: The researcher started the observation through structural equation modeling by evaluating the outer model to determine the value of cross loading, evaluating construct reliability, and evaluating construct validity. The cross-loading value is used to evaluate how strong the indicator value in the latent variable is against the indicator value in other latent variables. While the evaluation of construct reliability and evaluation of construct validity were used to determine the reliability of the instrument. Evaluation of construct validity and reliability follows Krabbe PFM's (2017) suggestion by calculating convergent validity, namely calculating the Average Variance Extracted (AVE) value while evaluating construct reliability by calculating Cronbach's Alpha value and Composite Reliability value.<sup>55</sup>

Second: Researchers observe the Inner model through hypothesis testing to determine the effect of independent variables on the dependent variable so that direct and indirect relationships between variables are known. Hypothesis testing in this study was conducted to determine the relationship between coping sources, coping strategies, and psychological well-being through stress of leprosy.

Third: Through the bootstrap procedure, the researcher calculated the R-Square value to calculate how strong the contribution of the independent variable was to the dependent variable,<sup>56</sup> namely to determine the significance of the effect of coping resources, coping strategies on leprosy stress, and to determine the significance of the influence of coping resources, coping strategies, leprosy stress on psychological well-being.

## Ethical Approval

The study procedure was in accordance with the Declaration of Helsinki and was approved by the Dr. Sutomo Hospital Health Research Ethics Committee with the number: 0168/KEPK/III/2021 (March 30, 2021).

## Results

### Descriptive Statistics of Variables

Table 2 shows that respondents' perceptions of the variables have a good average and standard deviation, including the coping resources variable with cognitive dimensions (2.8053–0.71246), social (2.8128–0.71335), emotional (2 0.7560–0.73949), spiritual (2.7360–0.74210), and physical (2.7880–0.74396). Besides, the result regarding coping strategies

**Table 2** Description of Research Variables

Variable	Dimension	Mean	Std. Deviation
Resilience		3.14	1.10
Coping Resources	Cognitive	2.80	0.71
	Social	2.81	0.71
	Emotional	2.76	0.74
	Spiritual	2.74	0.74
	Physical	2.79	0.74
Leprosy stress		2.67	0.48
Psychological Well-Being	The Autonomy	2.97	0.99
	The Environmental Mastery	2.85	0.77
	The Personal Growth	2.82	0.75
	The Positive Relations with Others	2.84	0.75
	The Purpose in Life	2.78	0.77
	The Self-Acceptance	2.81	0.77

variables with dimensions of resourcefulness and focus is 2.8608–0.75870, physical and persistent is 2.9030–0.83335, positive and knowledge-based is 2.8680–0.82585, and warning processing is 2.08907–0.84524. Respondents' perceptions of the leprosy stress variable have an average and standard deviation (2.6664–0.47951), while the results concerning psychological well-being variable on the autonomy dimension is 2.9714–0.99491, environmental mastery is 2.8536–0.77326, personal growth is 2.8190–0.74865, positive relationship with others is 2.8366–0.74832, and purpose in life is 2.7754–0.76619.

## Structural Equation Modeling

The results of this structural equation modeling test show the results of the evaluation of the outer model, inner model, and the contribution of the independent variable to the dependent variable.

## Evaluation of Outer Models

The Outer Model Evaluation Scheme involves cross-loading values and the construction of Validity and Reliability, each of which has been described in Figure 1 as follows.

### Value of loading and cross loading

The results of the analysis show that the loading factor value of coping resources which includes cognitive, emotional, physical, social, and spiritual is between (0.959–0.981) > 0.5, and the loading factor value of coping strategies which include Alert processing, Physical and fixed, Positive and knowing-based, Resourceful and focused is about between (0.962–0.982) > 0.5, the loading factor value of psychological well-being which includes The Autonomy, The Environmental Mastery, The Personal Growth, The Positive Relations with Others, The Purpose in Life, The Self-Acceptance, is between (0.941–0.977) > 0.5, and the loading factor value of stress leprosy is (1.000) > 0.05. Thus, all indicators that support the variable coping resources, coping strategies, psychological well-being, and leprosy stress are good, and the indicator that gives the biggest contribution to measuring Coping Resources is Social (0.981). Then the indicator that gives the biggest contribution to measuring Coping Strategies is Positive and knowledge-based (0.982), and the indicator that gives the biggest contribution to measuring Psychological Well-Being is Personal Growth (0.977). Meanwhile, overall the indicators of each variable, produce a loading value that is greater than the loading indicator value

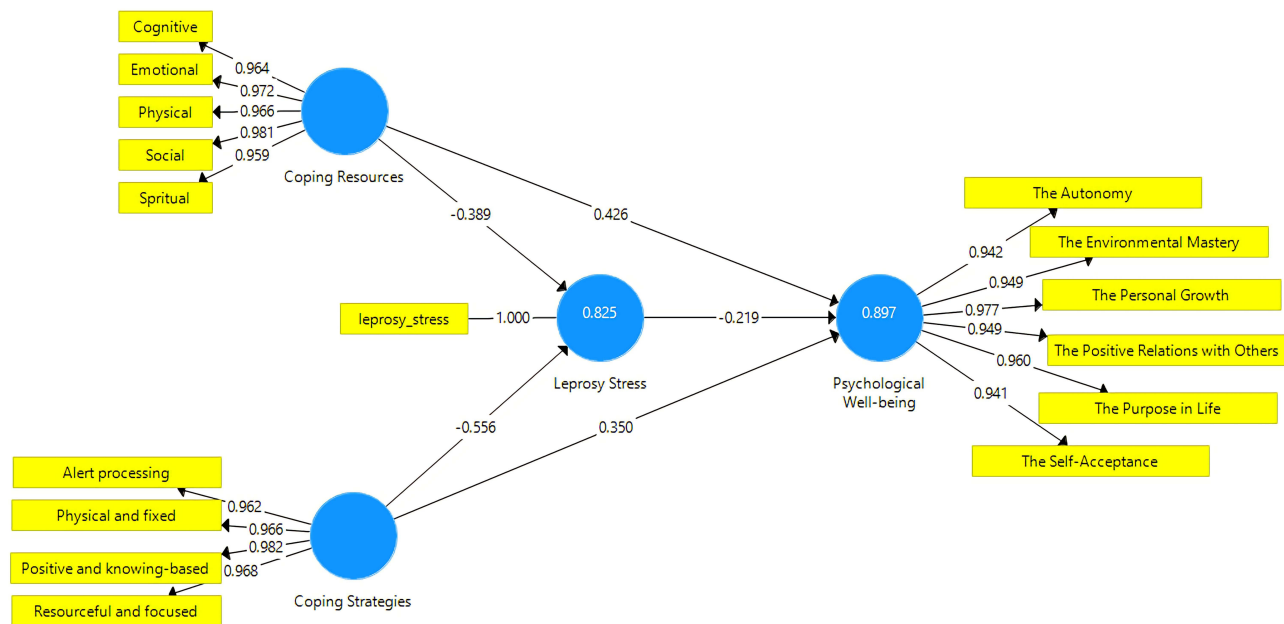


Figure 1 Outer Model Construct.

on other variables, this shows that from the discriminant validity test, each indicator can measure the latent variable that has conformity with the indicator. seen in [Table 3](#)

#### Construct reliability and validity

The results of the reliability and construct validity test resulted in the Coping Resources values being Cronbach's Alpha (0.983 > 0.5), Composite Reliability (0.987 > 0.7) and Average Variance Extracted (0.938) > 0.6. The values of the coping strategies are Cronbach's Alpha (0.979 > 0.5), Composite Reliability (0.984 > 0.7) and Average Variance Extracted (0.940 > 0.6). Values of Psychological Well-being are Cronbach's Alpha (0.980 > 0.5), Composite Reliability (0.983 > 0.7) and Average Variance Extracted (0.908 > 0.6). While the value of stress leprosy is Cronbach's Alpha (1.000 > 0.5), Composite Reliability (1.000 > 0.7) and Average Variance Extracted (1.000 > 0.6). Thus the results of the reliability and validity tests on all variables showed very adequate or marginal results. Further details can be seen in [Table 4](#)

## Evaluation of Inner Models

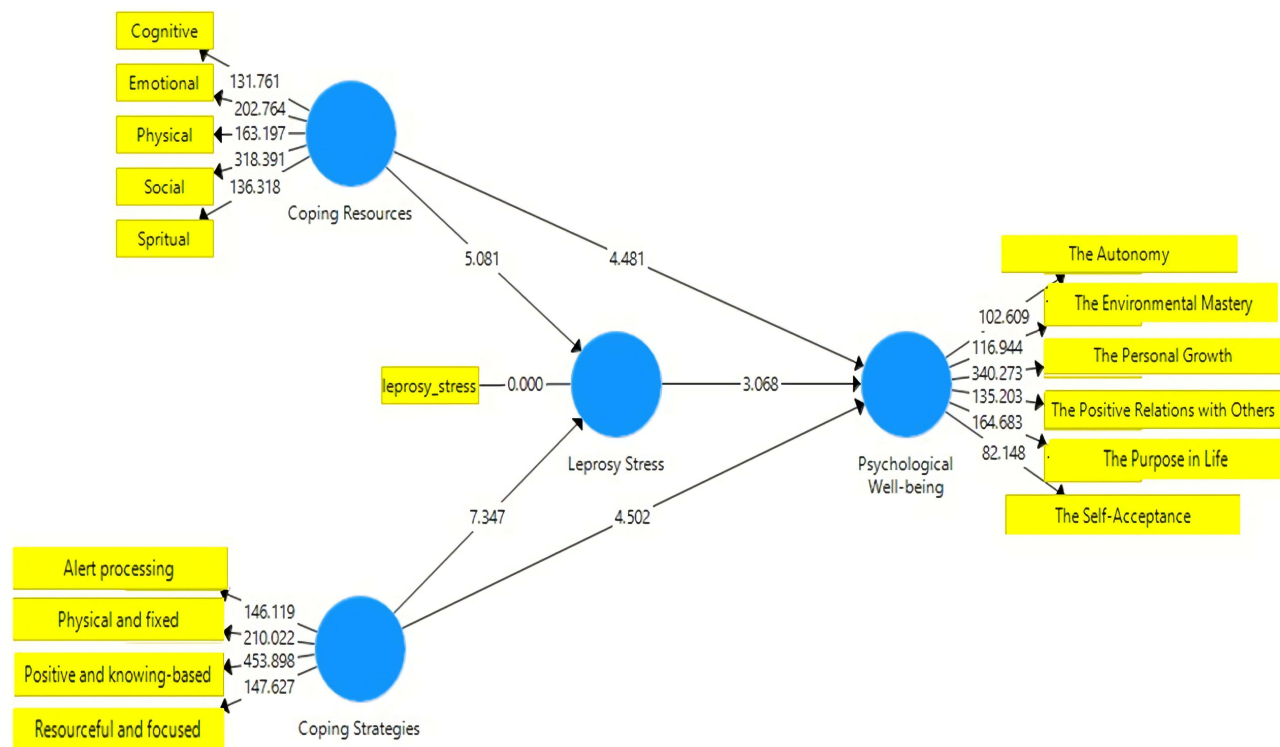
In general, the Evaluation of Inner Models can be explained in [Figure 2](#) as follows. While the results of the detailed evaluation of the Inner Models are based on the goodness of fit evaluation stages based on hypothesis testing, the results have direct and indirect relationships.

**Table 3** Value of Loading and Cross Loading

	<b>Coping Resources</b>	<b>Coping Strategies</b>	<b>Leprosy Stress</b>	<b>Psychological Well-Being</b>
Cognitive	0.964	0.825	-0.840	0.885
Emotional	0.972	0.835	-0.842	0.897
Physical	0.966	0.784	-0.817	0.859
Social	0.981	0.840	-0.860	0.906
Spiritual	0.959	0.796	-0.793	0.849
Alert Processing	0.791	0.962	-0.821	0.849
Physical and Fixed	0.800	0.966	-0.837	0.849
Positive and Knowing-based	0.832	0.982	-0.870	0.899
Resourceful and Focused	0.845	0.968	-0.897	0.898
The Autonomy	0.888	0.887	-0.898	0.942
The Environmental Mastery	0.876	0.860	-0.856	0.949
The Personal Growth	0.877	0.860	-0.853	0.977
The Positive Relations with Others	0.852	0.851	-0.852	0.949
The Purpose in Life	0.853	0.871	-0.851	0.960
The Self-Acceptance	0.844	0.827	-0.794	0.941
Leprosy Stress	-0.858	-0.884	1.000	-0.893

**Table 4** Construct Reliability and Validity

<b>Variable</b>	<b>Cronbach's Alpha</b>	<b>Rho-A</b>	<b>Composite Reliability</b>	<b>Average Variance Extracted (AVE)</b>
Coping Resources	0.983	0.984	0.987	0.938
Coping Strategies	0.979	0.980	0.984	0.940
Leprosy Stress	1.000	1.000	1.000	1.000
Psychological Well-being	0.980	0.980	0.983	0.908



**Figure 2** Inner Model Construct.

The results of this analysis have reported that the value of the relationship between Coping Resources and Leprosy Stress is the value of Coefficients ( $-0.389$ ), T Statistics ( $5.081 > 1.96$ ), and P values ( $0.000 < 0.05$ ). The value of the relationship between Coping Resources and Psychological Well-being is the value of Coefficients ( $0.426$ ), T Statistics ( $4.481 > 1.96$ ), and P values ( $0.000 < 0.05$ ). The value of the relationship between Coping Strategies and Leprosy Stress is the coefficient value ( $-0.556$ ), T Statistics ( $7.347 > 1.96$ ), P values ( $0.000 < 0.05$ ). The value of the relationship between Coping Strategies and Psychological Well-being is the value of Coefficients ( $0.350$ ), T Statistics ( $4.502 > 1.96$ ), P values ( $0.000 < 0.05$ ). The value of the relationship between Leprosy stress and Psychological Well-being is the coefficient value ( $-0.219$ ), T Statistics ( $3.068 > 1.96$ ), P values ( $0.002 < 0.05$ ). And this indicates that all independent variables are directly related to the dependent variable, which can then be seen in [Table 3](#). Meanwhile, The test results report that the value of the indirect relationship between Coping Resources and Psychological Well-being through Leprosy Stress is the value of Coefficient ( $0.085$ ), T Statistics ( $2.709 > 1.96$ ), P values ( $0.007 < 0.05$ ), which indicates that Coping Resources have a direct relationship with Psychological Well-being through leprosy stress. While the value of the indirect relationship between Coping strategies and Psychological Well-being through Leprosy Stress is the value of Coefficient ( $0.122$ ), T Statistics ( $2.701 > 1.96$ ), and P values ( $0.007 < 0.05$ ), which indicates that Coping Strategies have a relationship directly with Psychological Well-being through stress leprosy, and the detail can be seen in [Table 5](#).

## The Contribution of the Independent Variable to the Dependent Variable

The results of the analysis show that the value of the Leprosy stress variable is R Square ( $0.825$ ), which indicates that Leprosy stress is influenced by coping resources and coping strategies by 82.5%. In addition, the value of the Psychological Well-being variable is R Square ( $0.897$ ), which indicates that Psychological Well-being is influenced by coping resources, coping strategies, and leprosy stress by 89.7%. More details can be seen in [Table 6](#)

**Table 5** Hypothesis Testing Results

Influence	Coefficient	T Statistics ( O/STDEV )	P values
Coping Resources → Leprosy Stress	-0.389	5.081	0.000
Coping Resources → Psychological Well-being	0.426	4.481	0.000
Coping Resources → Leprosy Stress → Psychological Well-being	0.085	2.709	0.007
Coping Strategies → Leprosy Stress	-0.556	7.347	0.000
Coping Strategies → Psychological Well-being	0.350	4.502	0.000
Leprosy Stress → Psychological Well-being	-0.219	3.068	0.002
Coping Strategies → Leprosy Stress → Psychological Well-being	0.122	2.701	0.007

**Table 6** R Square

Influence	R Square	R Square Adjusted
<b>Leprosy Stress</b>	0.825	0.822
<b>Psychological Well-being</b>	0.897	0.895

## Discussion

Coping resources and coping strategies are protective factors in preventing the development of mental disorders, and these have a positive relationship with improving psychological well-being.<sup>57</sup> As a result, coping resources and coping strategies are considered as protective factors that prevent psycho-emotional disorders that may arise from the stress of leprosy. Because leprosy stress can change psychological well-being and has a close relationship with coping resources and coping strategies to be chosen, while coping resources and coping strategies are always related to psychological well-being, in this study researchers examine the relationship between coping resources, coping strategies, and psychological well-being through the stress of leprosy. The first finding suggests that leprosy stress partially facilitates the relationship between coping resources and psychological well-being in favor of H1. The findings of this study as in other findings related to stressful situations due to chronic illness, increased coping resources make a positive contribution to psychological problems.<sup>58,59</sup>

It has also been reported that positive psychological interventions can relieve depression for the purpose of improving subjective well-being and psychological well-being.<sup>60–62</sup> For this reason, too, in preventing the development of a stress response to leprosy (which is a chronic disease), coping resources are an important instrument for protecting the psychological well-being of “Person affected by leprosy”. It is very possible, that while infected with leprosy, the individual has developed symptoms related to psychological distress such as stress, anxiety, fear, and depression,<sup>39,63,64</sup> and this all greatly affects their mental well-being.<sup>21</sup> This is why the use and improvement of coping resources have been developed in other places where stress reduction and pressure are severe. The practice of increasing resources to overcome problems in the workplace that is set in the form of theory-based training and workshops in increasing psychosocial coping resources can cope with work stress to support their mental health.<sup>65</sup> It is the same with workers who experience stress due to intimidation.<sup>66</sup> Thus, the finding here that increased coping resources are used to improve mental health by decreasing stress response can be said to be a feature similar to the findings of previous studies. Confidence to recover from illness, increased ability and willingness to interact with other people and the environment, strong personality, high self-confidence, and a strong desire to solve problems are forms of coping resources that exist in every individual and can use to solve problems through the selection of effective coping strategies, and this is also what “Persons Affected by Leprosy” must do to maintain their well-being.

The second finding shows that coping strategies have a relationship with psychological well-being through leprosy stress, strongly supporting H2. This indicates that people who have several coping strategies in solving problems will experience low leprosy stress, so they can protect their psychological well-being. Like the experience experienced by people infected with leprosy, it has caused post-traumatic stress disorder (PTSD).<sup>67</sup> Several studies that have reported the power of coping strategies in reducing stress to ensure psychological well-being are very supportive in this study.<sup>68</sup> Besides, coping strategies have a positive relationship with sources of stress and other common psychological disorders.<sup>69</sup> In addition, interventions directed at developing coping strategies have been effective in reducing the development of psychological disorders.<sup>35,70</sup> On the other hand, coping strategies have a positive relationship with feelings of well-being,<sup>71</sup> psychological well-being,<sup>72</sup> as well as subjective well-being,<sup>73</sup> This is because coping strategies are alternative methods for understanding coping and adjustment.<sup>31</sup> So the findings here that emergent coping strategies to improve mental health in general and psychological well-being in particular, by reducing stress can be said to exhibit similar features to the findings of previous studies.

Finally, coping resources and coping strategies, with low-stress levels in leprosy patients as facilitators, have been shown to predict better levels of psychological well-being. Therefore, by using resources and coping strategies, people with leprosy can help protect their mental health from the stress of leprosy. And the findings of this study, have confirmed what has been successfully practiced elsewhere in Indonesia by Lusli et al through their work on rights-based peer counseling of and by people who have experienced leprosy.<sup>74</sup> This approach argues that resources and coping strategies are psychological strengths to support the self-integrity of lepers and are not used for people who have psychological disorders. In other words, developing psychological strength is a strategic step for people who are prone to mental stress and also improves well-being,<sup>43</sup> so that, coping resources<sup>13,65</sup> and coping strategies<sup>70,72,75,76</sup> can predict better psychological well-being. Thus, positive psychology-based leprosy treatment approaches such as exploring the source of coping and strengthening the use of effective coping strategies in addition to providing leprosy treatment services need to be developed in the future by health service providers such as doctors, nurses, nutritionists, and other health workers, so that they feel comfortable in undergoing the treatment program to completion to achieve optimal healing.

## Conclusion

Overcoming leprosy is very important to do because it has caused psychosocial problems and has an impact on physical, emotional, and social. Therefore, it is now a very important thing to pay attention to. In connection with this, the results of this study indicate that coping resources and coping strategies contribute as a buffer for better mental health so this is always associated with a decrease in leprosy stress and an increase in psychological well-being. Moreover, individuals who have extensive coping resources and many coping strategies are possible to use alternative flexible coping sources to cope with the stress of leprosy and ensure their well-being. Their experience of leprosy stress can be handled adaptively on a practical level and as a result, they can feel better psychological well-being.

## Data Sharing Statement

All data generated or analysed during this study are included in this published article.

## Ethical Approval

The study procedure was in accordance with the Declaration of Helsinki and was approved by the Dr. Sutomo Hospital Health Research Ethics Committee with the number: 0168/KEPK/III/2021. All participants were given informed consent and were informed that they could withdraw at any time from the study.

## Acknowledgments

The author would like to thank Leprosy patients and those around them, for sharing their experiences. We would also like to express our gratitude to the administrators at the institution who have assisted and supported this research.

## Author Contributions

All authors made a significant contribution to the work reported, whether that is in the conception, study design, execution, acquisition of data, analysis and interpretation, or in all these areas; took part in drafting, revising or critically reviewing the article; gave final approval of the version to be published; have agreed on the journal to which the article has been submitted; and agree to be accountable for all aspects of the work. All authors critically revised the article, give final approval for the submission of the article, and agree to be responsible for all aspects of the work in ensuring that questions related to the accuracy or integrity of each part of the work are properly researched and resolved.

## Funding

This research did not receive any specific grant from funding agencies in the public, commercial, or not for-profit sectors.

## Disclosure

The authors report no conflicts of interest in relation to this work.

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