

p-ISSN 2580-7161



9 772580 716008

e-ISSN 2580-717X



9 772580 717005



p-ISSN : 2580-7161

e-ISSN : 2580-717X

JOURNAL OF VOCATIONAL HEALTH STUDIES



VOLUME 9
NUMBER 1
JULY 2025



Journal of Vocational Health Studies

<https://e-journal.unair.ac.id/JVHS>

Journal of Vocational Health Studies (J.Voc.HS). is a national scientific journal that publishes scientific articles such as Original Research Articles, Literature Reviews, and Case Studies related to various scientific aspects in the fields of **Radiology, Traditional Medicine, Medical Laboratory Technology, Occupational Health and Safety, Dental Technique, and Physiotherapy**. Journal of Vocational Health Studies was first published in July 2017 with a frequency of 3 (three) times a year in **March, July, and November**.

Editor in Chief

Ratna Wahyuni, S.Si., M.Kes. Ph.D.

Editorial Board

Anchalee Prasansuklab, Ph.D.
Prof. Dr. Said Ibrahim Abou EL-Ella Shalaby
Prof. Dr. Mona Abdel Kader Awad
Ario Imandiri, dr., Sp. Ak.
Astri Nur Faizah, DVM., Ph.D.
Ni Nyoman Purwani, S.Si., M.Si., Ph.D.
Ratih Damayanti, S.KM., M.Kes.
Amillia Kartikasari, S.Tr.Kes., M.T.
Dr. Nanda Rachmad Putra Gofur, drg., M.Biomed.
Rizka Oktarianti Ainun Jariah, S.Si., M.Sc.
Rini Hamsidi, S. Farm., M.Farm., Apt.
Anisa Nur Halimah, drg., M.Kes.
Yulia Rahmawati, Ph.D.
Dr. Azizan Ramli
Dr. Nadia Noreen, MBBS, MPH, M.Sc, Ph.D.
Dr. Somayyeh Gharibi, Ph.D.
Arwansyah, M.Si., Ph.D.
Rahmad Ferdiansyah, S. KM., M.KKK.
Agung Tyas Subekti, S. Kep., M.A.
Mohammad Kordkatouli, Ph.D.
Dr. Somlata, Ph.D.

Managing Editor

Agung Budianto Achmad, drh., M.Si.
dr. Husnawati, M.Si.
Laita Nurjannah, M.Si.

Cover credit to

Bagus Setyoboedi, Karina Pharamita Dewi, Rendi Aji Prihaningtyas, Sjamsul Arief

Publisher

Department of Health, Faculty of Vocational Studies, Universitas Airlangga

Address

Department of Health, Faculty of Vocational Studies, Universitas Airlangga
Jl. Dharmawangsa Dalam No. 28-30, Surabaya 60286 Telp.: 031-5033869, 031-5053156;
Faks: 031-5053156 Email: jvhs@journal.unair.ac.id, Website: <https://e-journal.unair.ac.id/JVHS>





Journal of Vocational Health Studies

<https://e-journal.unair.ac.id/JVHS>

The editors, writers, and readers of the **Journal of Vocational Health Studies** would like to thank the reviewers who have contributed by providing recommendations for the substance of the manuscript so that it becomes a quality manuscript.

Reviewers

Prof. Dr. Ir. Suhariningsih (Universitas Airlangga)
dr. Peristiwa Ridha Widhi Astana, M.Biomed. (UPF Pelayanan Kesehatan Tradisional, RSUP Dr. Sardjito)
Dr. Anggraini Dwi Sensusiati, dr., Sp. Rad(K). (Universitas Airlangga)
Dr. Mohamad Saifudin Hakim, M.Sc., Ph.D. (Qassim University)
Eunike Serfina Fajarini, S.Si., M.Kom. (MRI GE Healthcare Indonesia)
Dr. Andriyanto, S.H., M.Kes. (Pemerintahan Provinsi Jawa Timur)
Desi, S.KM., M. Gizi. (Poltekkes Kemenkes Pontianak)
Windy Yuliana Budianto, S.Kep., Ners, Biomed. (Universitas Lambung Mangkurat)
drg. Soesilaningtyas, M.Kes. (Poltekkes Kemenkes Surabaya)
Ariyati Retno Pratiwi, drg., M.Kes. (Universitas Brawijaya)
Narta Nikita Sari, drg. (Universitas Gadjah Mada)
Ratri Maya Sitalaksmi (Universitas Airlangga)
Thidarat Duangyod, Ph.D. (Mae Fah Luang University)
Dr. Rosy Setiwati, dr., Sp. Rad(K). (Universitas Airlangga)
Riky Tri Yanuardi, S.T., M.T. (Universitas Airlangga)
Paphitchaya Thetsana, Ph.D. (Dhurakij Pundit University)
Ning Li, Ph.D. (Chulalongkorn University)
Dr. Abdul Rohim Tualeka, Drs., M.Kes. (Universitas Airlangga)
Putri Ayuni Alayyannur, S.KM., M.KKK., Ph.D. (Universitas Airlangga)
Dr. Nurud Suria Suhaimi (Universiti Malaysia Pahang)
Dwi Wahyu Indriati, S.Si., Ph.D. (Universitas Airlangga)
Dr. Neffrety Nilamsari, S.Sos., M.Kes. (Universitas Airlangga)
Tofan Agung Eka Prasetya, Ph.D. (Universitas Airlangga)
Yulia Nadar Indrasari, dr., Sp.PK. (RSUD. Dr. Soetomo)
Dr. Noereol Widajati, SKM., M.Sc. (Universitas Airlangga)
Michael Amor-Bosompon. Ph.D. (University of Tennessee)
Arif Nurkanto. Ph. D. (Badan Riset dan Inovasi Nasional)
Juniza Firdha Suparningtyas, S.Si., M.Si. (Universitas Mulawarman)
Dr. Dwi Utami Anjarwati, dr. M.Kes. (Universitas Jenderal Soedirman)
apt. Puteri Amelia, M. Farm. (Universitas Islam Negeri Syarif Hidayatullah Jakarta)
Emmy Kardinasari, S.Si., M.Si. (Poltekkes Kemenkes Pangkal Pinang)
Yeremia Rante Ada', S.Sos., M.Kes. (Universitas Sebelas Maret)
Dani Nasirul Haqi, S.KM., M.KKK. (Universitas Airlangga)
Dr. Ike Damayanti Habar, drg., Sp.Pros. (Universitas Hasanudin)
Heny Arwati, Dra., M.Sc., Ph.D. (Universitas Airlangga)
Dr. Mudatsir, M.Kes. (Universitas Syiah Kuala Darussalam Banda Aceh)

Reviewers

Faiza Hanum, drg., sp.Ort. (Universitas Hang Tuah)
Prof. Dr. Aty Widyawaruyanti, M.Si., Apt. (Universitas Airlangga)
Prof. Dr. dr. Cita Rosita Sigit Prakoeswa, SpKK(K). (Universitas Airlangga)
Prof. Dr. Heru Prasetyo, dr., Sp.Par. (Universitas Airlangga)
Dr. Muslim Akmal, drh., M.Si. (Universitas Syiah Kuala)
Wanlapa Leelananthakul, Ph.D. (Mahasarakham University)
Pakamon Thanatuskitti, Ph.D.(Mahasarakham University)
Watchara Damjuti, Ph.D. (Rajamangala University of Technology)
Dr. Nursama Heru Apriantoro, S.Si., M.Si. (Poltekkes Kemenkes Jakarta II)
Samdharu Pramono, drg., Sp. Pros., M. Phil., Ph.D. (Universitas Trisakti)
Woro Anindito Sri Tanjung, S.Si., M.Si., Ph.D. (Universitas Gadjah Mada)
Lailatul Muqmiroh, dr., Sp.Rad(K) (Universitas Airlangga)
Sesmeri Hariyani, S.KM., M.KKK. (Stikes Indonesia Padang)
James Evert Adolf Liku, S.T., M.KKK. (Universitas Balikpapan)
Primanda Nur Rahmania, drg., Sp.Pros. (Universitas Airlangga)
Prof. Dr. Lucia Tri Suwanti, M.P., drh. (Universitas Airlangga)
Ditaruni Asrina Utami, dr., Sp. KFR-K. (Universitas Airlangga)
Dr. apt. Amilia Pramisanidi, S. Farm., M. Farm. (Badan Riset dan Inovasi Nasional)
Martha Kurnia Kusumawardani, dr, Sp. KFR(K). (Universitas Airlangga)
Dr. Siti Kurniawati, drh., M.Ked.Trop. (Universitas Brawijaya)
Muslikha Nourma Rhomadhoni, S.KM., M.Kes. (Universitas Nahdlatul Ulama Surabaya)
Ns. Suhariyanto, S.Kep., M.Kep. (Poltekkes Kemenkes Pontianak)
Le Huy Hoang, Ph.D. (Researcher at the Bacteriology Department, National of Hygiene and Epidemiology Vietnam)
Dr. Riries Rulaningtyas, S.T, M.T. (Universitas Airlangga)
Dr. Asri Maharani, MD., M.Sc., Ph.D. (The University of Manchester)
Budiono Rahardjo, Sp.PK. (Universitas Wijaya Kusuma)
Faustus Akankperiwen Azerigyik. Ph.D. (National Institute of Infectious Diseases Japan)
Muhaimin, S.Tr.Kes., M.T. (Universitas Airlangga)
Dr. Tri Niswati Utami, M.Kes. (Universitas Islam Negeri Sumatera Utara)
Dr. Irnawati, M.Sc. (Universitas Halu Oleo)
Hebert Adrianto, S.Si, M.Ked.Trop., C.Ed. CBPA. (Universitas Ciputra)
Aisyah Rachmadani Putri Gofur, drg., M.Kes. (Universitas Airlangga)
drh. Irma Padeta, M.Sc. (Universitas Gadjah Mada)
Weni Purwanti, S.Si., M.Si. (Universitas Airlangga)
drg. Monika Werdiningsih, M.Kes. (Universitas Indonesia)
dr. Neneng Dewi Kurniati, Sp. MK. (RSUD Dr. Soetomo Surabaya)
Dr. drh. Dimas Novianto, M.Sc. (Institut Pertanian Bogor)
Septyani Prihatiningsih, S.KM., M.K.K.K. (Universitas Airlangga)
drh. Medania Purwaningrum, M.Sc. Ph.D. (Universitas Gadjah Mada)
Prof. Dr. Elly Munadzirroh, drg. M. Kes. (Universitas Airlangga)
Bagus Muhammad Ihsan, S.Si., M.Kes. (Poltekkes Kemenkes Pontianak)
Dzikra Nurseptiani, S.Ftr., M.Fis. (Universitas Muhammadiyah Pekajangan Pekalongan)
Dr. Sukmawati Basuki, dr., M.Sc. (Universitas Airlangga)
Ayu Anulus, SST., M.K.M. (Universitas Islam Al-Azhar)
dr. Wahyuningsih Djaali, M.Biomed, Sp.Ak. (Universitas Indonesia)
Berliana Devianti Putri, S.KM., M.Kes. (Universitas Airlangga)
Mohd Khairul Izamil Bin Zolkefley, MBChB, Ph.D. (Universiti Malaysia Pahang Al-Sultan Abdullah)

Reviewers

Mir Mohammad Hossein Mousavi (University of Maragheh)

Noramaliza Mohd Noor, Ph.D.(Universiti Putra Malaysia)

Norhashimah Mohd Norsuddin, Ph.D.(Center for Diagnostic, Therapeutic and Investigative Studies (CODTIS) - Malaysia)

Nadia Kartikasari, drg., M.Kes., Ph.D. (Universitas Airlangga)

Ratna Nurlia Alfiandini, drg., Sp. Ort. (Universitas Airlangga)

Siti Fitria Ulfah, S.ST., M.Kes. (Poltekkes Kemenkes Surabaya)

Widiya Ulfa, S.Tr.Kes., MDSc. (Universitas Airlangga)

Mohammad Maroufi (University of Kurdistan Iran)

Fitria Rahmitasari, drg., M.Kes. (Universitas Hang Tuah)

Dr. Salfarina Ramli, Ph.D. (Universiti Teknologi MARA Cawangan Selangor)

Dr. Haris Setyawan, S.KM., M.Kes. (Universitas Sebelas Maret)

Moch. Sahri, S.KM., M.KKK. (Universitas Nahdlatul Ulama Surabaya)

Indah Lutfiya S.KM., M.Kes. (Universitas Airlangga)

Dr. Edith Frederika Puruhito, S.KM., M.Sc. (MedSci). (Universitas Airlangga)



Journal of Vocational Health Studies

<https://e-journal.unair.ac.id/JVHS>

CONTENTS

RESEARCH REPORT (PENELITIAN)

- The Relationship between Duration of Dialysis and History of Blood Transfusion with Hepatitis C Seroprevalence in Hemodialysis Patients: A Cross-Sectional Study at Gadjah Mada University Academic Hospital
Hubungan Durasi Dialisis dan Riwayat Transfusi Darah dengan Seroprevalensi Hepatitis C pada Pasien Hemodialisis: Studi Cross-Sectional di Rumah Sakit Akademik Universitas Gadjah Mada
Kurnia Fitriyanti, Marsetyawan Heparis Nur Ekanda Soesatyo, Dewi Sulistyawati 1-7
- Application of The Behaviorally Anchored Rating Scale (BARS) in Assessing Employees' Occupational Safety and Health Situational Awareness
Penerapan Behaviorally Anchored Rating Scale (BARS) dalam Menilai Kesadaran Situasional Keselamatan dan Kesehatan Kerja Karyawan
Ahmad Padhil, Dirgahayu Lantara, Lutfiah Putri, Andi Pawennari 8-15
- Design of Internal Audit Information Systems of Occupational Safety and Health Management Systems
Perancangan Sistem Informasi Audit Internal Sistem Manajemen Keselamatan dan Kesehatan Kerja
Rohmat Fais Sahhal Hafidhuddin, Indri Santiasih, Wibowo Arninputranto 16-24
- Effect of Repeated Firing of Porcelain Fused to Metal on Porcelain Color Change
Pengaruh Pembakaran Berulang Porcelain Fused to Metal terhadap Perubahan Warna Porselen
Tarsilah, Endang Prawesthi, Didik Marsigid 25-30
- Dehydration Levels and Drinking Water Consumption on Work Fatigue At PT. PAL Indonesia
Tingkat Dehidrasi dan Konsumsi Air Minum terhadap Kelelahan Kerja di PT. PAL Indonesia
Tri Ayu Rahma Lestari, Noeroel Widajati 31-37
- The Effectiveness of Papaya Leaf Extract (*Carica Papaya L.*) as An Antiaggregation Agent on Platelet Count and Platelet Aggregation: In Vitro Study
Efektivitas Ekstrak Daun Pepaya (Carica Papaya L.) sebagai Antiagregasi terhadap Jumlah Trombosit dan Agregasi Trombosit
Ganjar Noviar, Eem Hayati, Riski Nur Ramadhani 38-46
- The Potential Effect of Avocado Seed Extract (*Persea Americana*) as A Corrosion Inhibitor on Surface Characteristic of Orthodontic Wires
Potensi Ekstrak Biji Buah Alpukat (Pesea Americana) sebagai Inhibitor Korosi terhadap Sifat Permukaan Kawat Ortodonti
Leliana Sandra Devi Ade Putri, Rina Sutjiati 47-53
- Antibacterial, Antioxidant, and Phytochemical Properties of *Bryophyllum Pinnatum* (Lam.) Leaf Extracts against Pathogenic Bacteria
Manfaat Antibakteri, Antioksidan dan Fitokimia Ekstrak Daun Bryophyllum Pinnatum (Lam.) terhadap Bakteri Patogen
Elizabeth Tomilayo Akinterinwa, Babayemi Olawale Oladejo, Muftau Kolawole Oladunmoye 54-63

CONTENTS

CAE STUDY (*STUDI KASUS*)

Liver Cancer Associated with Hepatitis B Virus Infection in A Child: A Case Report

Kanker Hati yang Berkaitan dengan Infeksi Virus Hepatitis B pada Anak : Laporan Kasus

Karina Pharamita Dewi, Rendi Aji Prihaningtyas, Bagus Setyoboedi, Sjamsul Arief 64-69

Making Diagnostic Wax Up of Maxillary Anterior Teeth in Cross Bite Cases

Pembuatan Diagnostic Wax Up Gigi Anterior Rahang Atas Pada Kasus Cross Bite

Sri Redjeki Indiani, Saniwati Goenharto, Anisa Nur Halimah, Widiya Ulfa, Narta Nikita Sari, Winda Kusumawardani, Dinda Nur Agustin 70-76