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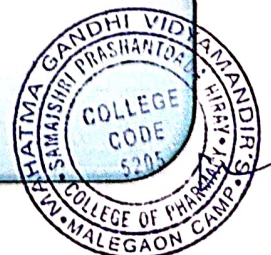
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ACADEMIC YEAR: 2023-2024

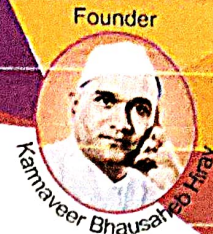
**CRITERION III: RESEARCH,
INNOVATIONS AND EXTENSIONS**

3.2 – Research Publications and Awards



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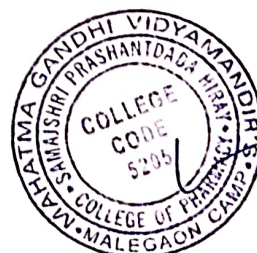


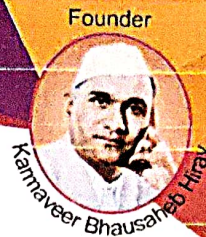
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3.2.1– Number of papers published per teacher in the journals notified on UGC website during the year.

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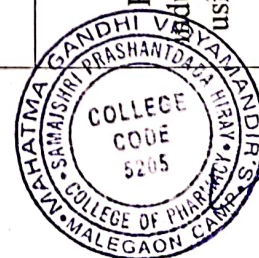




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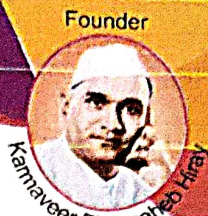
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Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number
The assessment of Ferulic acid in Rats with Vincristine-Induced Neuropathy	Prof Vinod R. Patil	Pharmacology	Int. Journal of Pharm. Quality Assurance	2024	0975 9506
A Novel approach for Evaluation of Hisperidin in Vincristine-induced Neuropathy in Rats.	Prof Vinod R. Patil	Pharmacology	Int. Journal of Pharm. Quality Assurance	2024	0975 9506
Formulation and Evaluation of sleep-inducing vanishing cream using and Lavender and Chamomile oil.	Shahid Latif Abdul Rahim Qureshi	Pharmacognosy	International Journal of Research and Analytical Reviews	2023	2349-5138



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Introduction

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Journal Scope

The Journal publishes original research work either as a Full Original Research Paper, Case Study or as a Short Communication, Systemic Review and Review Article on a current topic in the field. Below are also considered for publication by the Journal: Anatomy, Physiology, Anesthesiology, Biochemistry, Immunology, Botany, Cell Biology, Genetics, Hematology, Pharmacology, Immunology, Microbiology, Virology, Parasitology, Surgery, Dental Sciences, Sports Physiology, Histopathology, Toxicology, and all other disciplines of Biomedical Sciences, Pharmacokinetics, Molecular Drug Design, Pharmaceutical Toxicology, Biomedical Analysis, Clinical Research, Pharmacy Practice, General and Hospital Pharmacy, Cell Biology, Genomics and Proteomics, Pharmacogenomics, Bioinformatics and Biotechnology, Agriculture, Herbal Medicine, Orthopedics, Community Medicine, Pharmacology, General Medicine, ENT, Ophthalmology, Otolaryngology and Gynecology, Pediatric, Forensic Medicine, psychiatry, TB and chest, Skin and VD, Radiodiagnosis, Oncology, Surgery, Urology, Plastic surgery and all major disciplines of Medical and Biomedical Studies.

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International Journal of Pharmaceutical Quality Assurance

Pharmaceutical Quality Assurance

Peer Review Journal

doi prefix: 10.25258/ijpqa

Journal Scope

The Journal publishes original research work either as a Full Original Research Paper, Case Study or as a Short Communication, Systemic Review and Review Article on a current topic in the field. Below are also considered for publication by the Journal: Anatomy, Physiology, Anesthesiology, Biochemistry, Immunology, Botany, Cell Biology, Genetics, Hematology, Pharmacology, Immunology, Microbiology, Virology, Parasitology, Surgery, Dental Sciences, Sports Physiology, Histopathology, Toxicology, and all other disciplines of Biomedical Sciences, Pharmacokinetics, Molecular Drug Design, Pharmaceutical Toxicology, Biomedical Analysis, Clinical Research, Pharmacy Practice, General and Hospital Pharmacy, Cell Biology, Genomics and Proteomics, Pharmacogenomics, Bioinformatics and Biotechnology, Agriculture, Herbal Medicine, Orthopedics, Community Medicine, Pharmacology, General Medicine, ENT, Ophthalmology, Otolaryngology and Gynecology, Pediatric, Forensic Medicine, psychiatry, TB and chest, Skin and VD, Radiodiagnosis, Oncology, Surgery, Urology, Plastic surgery and all major disciplines of Medical and Biomedical Studies.

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The Assessment of Ferulic Acid in Rats with Vincristine-Induced Neuropathy

Vinod R Patil¹, Chandrabekhar D Upasani²

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²Department of Pharmacology, SPPH's SPPH College of Pharmacy, Nashik, Maharashtra, India

Received: 17 September 2023; Revised: 19 January 2024; Accepted: 19 February 2024; Available Online: 29 March 2024

ABSTRACT

The present study was conducted to assess the effect of ferulic acid (FA) on vincristine (VCR)-induced neuropathy in rats. FA was administered orally at doses of 100, 200, and 400 mg/kg body weight for 14 days. The results showed that FA significantly reduced the VCR-induced neuropathy, as evidenced by the reduction in the number of misshapen axons, the length of the axons, and the number of axonal spherules. FA also significantly reduced the VCR-induced oxidative stress, as evidenced by the reduction in the levels of malondialdehyde (MDA) and the increase in the levels of superoxide dismutase (SOD) and catalase (CAT). The results suggest that FA may be a potential neuroprotective agent against VCR-induced neuropathy.

KEYWORDS: Ferulic acid, Vincristine, Neuropathy, Oxidative stress, Rats.

INTRODUCTION

Vincristine (VCR) is a widely used antineoplastic drug, but it is associated with a variety of side effects, including peripheral neuropathy. Peripheral neuropathy is a common side effect of VCR, which is characterized by numbness, tingling, and pain in the hands and feet. The pathogenesis of VCR-induced neuropathy is not fully understood, but it is believed to be related to the oxidative stress and mitochondrial damage caused by VCR. Ferulic acid (FA) is a natural polyphenolic compound that has been shown to have antioxidant and neuroprotective properties. FA has been shown to reduce oxidative stress and protect against VCR-induced neuropathy in rats. The present study was conducted to assess the effect of FA on VCR-induced neuropathy in rats.

A Novel Approach for Evaluation of Hesperidin in Vincristine-Induced Neuropathy in Rats

Vinod R Patil¹, Chandrabekhar D Upasani²

¹Department of Pharmacology, MCI's SPPH College of Pharmacy, Nashik, Maharashtra, India
²Department of Pharmacology, SPPH's SPPH College of Pharmacy, Nashik, Maharashtra, India

Received: 17 September 2023; Revised: 19 January 2024; Accepted: 19 February 2024; Available Online: 29 March 2024

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The present study was conducted to evaluate the effect of hesperidin (HSP) on vincristine (VCR)-induced neuropathy in rats. HSP was administered orally at doses of 100, 200, and 400 mg/kg body weight for 14 days. The results showed that HSP significantly reduced the VCR-induced neuropathy, as evidenced by the reduction in the number of misshapen axons, the length of the axons, and the number of axonal spherules. HSP also significantly reduced the VCR-induced oxidative stress, as evidenced by the reduction in the levels of malondialdehyde (MDA) and the increase in the levels of superoxide dismutase (SOD) and catalase (CAT). The results suggest that HSP may be a potential neuroprotective agent against VCR-induced neuropathy.

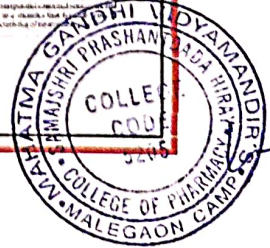
KEYWORDS: Hesperidin, Vincristine, Neuropathy, Oxidative stress, Rats.

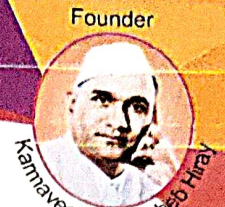
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Vincristine (VCR) is a widely used antineoplastic drug, but it is associated with a variety of side effects, including peripheral neuropathy. Peripheral neuropathy is a common side effect of VCR, which is characterized by numbness, tingling, and pain in the hands and feet. The pathogenesis of VCR-induced neuropathy is not fully understood, but it is believed to be related to the oxidative stress and mitochondrial damage caused by VCR. Hesperidin (HSP) is a natural flavonoid compound that has been shown to have antioxidant and neuroprotective properties. HSP has been shown to reduce oxidative stress and protect against VCR-induced neuropathy in rats. The present study was conducted to evaluate the effect of HSP on VCR-induced neuropathy in rats.

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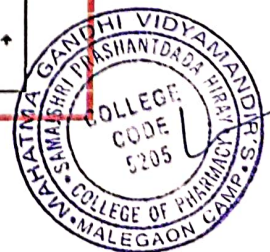


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The screenshot shows the homepage of the International Journal of Research and Analytical Reviews (IJRAR.ORG). The page features the journal's logo, ISSN information (E-ISSN 2348-1269, P-ISSN 2349-5138), and a call for papers for Volume 11, Issue 4, dated December 2024. It also includes a search bar for papers, a login section for authors, and various navigation links such as 'Home', 'About Us', and 'Contact Us'. The page is designed with a clean, professional layout and includes a sidebar with additional journal information.

This screenshot displays a collection of service links and policies for the IJAR journal. It includes sections for 'Review Process Policy', 'Open access Publishing Policy', 'Publication Ethics Policy', and 'Track Status of Paper / Login to Author Home'. There are also links for 'Submit Paper Online', 'Online Payment Link', and 'Publication Guidelines'. The page provides information about the journal's ISSN, UGC approval, and starting year (2014). A sidebar on the left lists 'Volume 11 | Issue 4' with a last date of 31-Dec-2024 and details about the review process, including a 02-03 day review result and a 02-03 day publication window. A 'Join Reviewer / RMS Earn 300 INR' link is also present.



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Formulation and Evaluation of Sleep-Inducing Vanishing cream using Lavender and Chamomile Oil.

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(First year Masters in Pharmacy) Department of Quality Assurance MGVS Pharmacy College, Panchavati, Nashik.

2. Miss. Bhagyashri Vijay Soudane
(First year Masters in Pharmacy) Department of Pharmaceutics, K.B.H. Pharmacy College, Malegaon, Nashik.

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7. Mr. Vinod R. Patil
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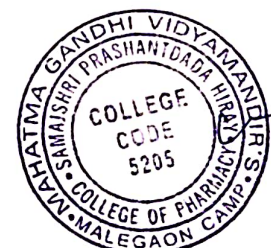
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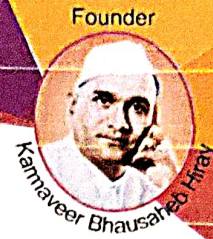
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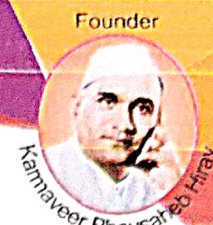
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Summary Report

The faculty members of MGV's SPH College of Pharmacy, Malegaon, have made significant contributions to pharmaceutical sciences through their research, emphasizing pharmacological evaluations, innovative therapeutic approaches, and novel formulations utilizing natural ingredients. Among these, two impactful studies by Prof. Vinod R. Patil from the Department of Pharmacology, published in the *International Journal of Pharmaceutical Quality Assurance* in 2024, focus on addressing vincristine-induced neuropathy, a severe side effect of chemotherapy. In the first study, ferulic acid, known for its anti-inflammatory and antioxidant properties, was evaluated for its neuroprotective potential. The findings from preclinical trials in rats demonstrated a marked reduction in neuropathic pain, positioning ferulic acid as a promising candidate for mitigating chemotherapy-induced complications. The second study explored hesperidin, a flavonoid with robust pharmacological activity, for its effectiveness in managing the same condition. Using preclinical models, this research highlighted hesperidin's anti-inflammatory and neuroprotective mechanisms, reinforcing its potential as a therapeutic option for improving the quality of life in cancer patients undergoing vincristine-based treatments. These studies collectively underscore the potential of bioactive compounds in managing complex medical conditions associated with chemotherapy. In another ground breaking study, Shahid Latif Abdul Rahim Qureshi from the Department of Pharmacognosy explored the formulation and evaluation of a novel sleep-inducing vanishing cream incorporating lavender and chamomile oils. Published in the *International Journal of Research and Analytical Reviews* in 2023, this research highlights the therapeutic potential of essential oils for promoting relaxation and improving sleep quality. The study focused on creating a user-friendly, non-invasive topical preparation and evaluated its efficacy through parameters such as texture, stability, and user experience. The results demonstrated the cream's effectiveness in inducing relaxation and enhancing sleep, offering a natural alternative to conventional treatments for sleep disorders. This work bridges the gap between traditional medicinal practices and modern pharmaceutical formulation, paving the way for the integration of natural ingredients into contemporary wellness solutions. Collectively, these

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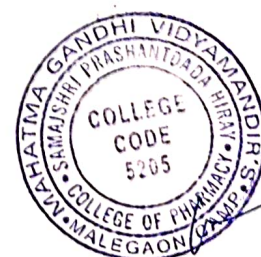
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research efforts reflect the innovative and multidisciplinary approach of MGV's SPH College of Pharmacy, where faculty members focus on addressing critical healthcare challenges through science and innovation. Prof. Vinod R. Patil's pharmacological studies advance the understanding of bioactive compounds like ferulic acid and hesperidin in managing chemotherapy-induced neuropathy, while Shahid Qureshi's work emphasizes the potential of natural products in developing effective therapeutic formulations. Through these contributions, the institution demonstrates its commitment to advancing pharmaceutical research, enhancing healthcare outcomes, and supporting the development of novel, evidence-based therapeutic solutions that align with modern healthcare needs.



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