

CONTENT

- **Exploring Influential Factors on Nurses' Physical Restraint Practices: Perspectives from Critical Care Nurses' Knowledge, Attitudes, and Experiences**
Maha Subih, Rasmieh Al-Amer, Muayyad Ahmad, Rami A. Elshatarat, Wesam T. Almagharbeh, Hekmat Y. Al-Akash, Khaled M. Al-Sayaghi, Dena Eltabey Sobeh, Mudathir M. Eltayeb, Zyad T. Saleh, PhD, RN 1
- **The Phytochemical Screening, Antioxidant Properties and Toxicity Study of *Anacardium occidentale* and *Barringtonia racemosa* Leaves Extracts**
Nurul Hikmah Harun, Nur Syakirah Mat Zaki, Wan Amalina Wan Mamat, Zulkifli Mohd Yusop 8
- **Evaluation of protective effects of *Bacopa monnieri* in Doxorubicin induced Testicular toxicity in rats**
Ankitha K, Shivani Singh, Reena Sherin Parveen, Shalini Adiga, Mohandas Rao KG, Ravindra Maradi, Aswatha Ram HN, Shivaprakash Gangachannaiah 17
- **The Efficacy and Safety of Methylnaltrexone in Cancer patients with Opioid-induced Constipation: A Systematic Review and Meta-analysis**
Kadek Mercu Narapati Pamungkas, Putu Itta Sandi Lesmana Dewi, Ni Luh Putu Yunia Dewi, Putu Gita Raditya Sanjiwani, Ni Nyoman Gita Kharisma Dewi, Dwijo Anargha Sindhughosa, I Ketut Mariadi, 24
- **Managing Type 2 Diabetes Mellitus by Coupling Immunity Modulatory and Antidiabetic properties**
Shom Prakash Kushwaha, Syed Misbahul Hasan, Kuldeep Singh, Arun Kumar, Muhammad Arif 33
- **Antioxidant and Antimicrobial activity of 4-methoxy-3-(methoxymethyl) Phenol, (E)-N'-(5-bromo-2-methoxybenzylidene)-4-methoxy benzohydrazide extracted from *Hygrophila auriculata***
K. Prabakaran, U. Sahitya Reddy, L. Raga Lakshmi, M. Sathiyaseelan 39
- **Characterization and Release of Quercetin from Microspheres with Sodium Alginate-Chitosan Combination Matrix**
Tutiek Purwanti, Tristiana Erawati, Anissya Rizqi Widitya, Habshoh Prameswari, Dewi Melani Hariyadi 44
- **Recent development of Nose-to-Brain delivery as inhalable dry nanoparticles for the treatment of Migraine**
Joysa Ruby Joseph, Venkatesh Dinneker Puttegowda, Selvakumar Kanthiah, Ajay Pankajbhai Lunagariya, Jeevan Kumar Mishra, Ashly Merin George 51
- **Pharmacological Evaluation of S-Amlodipine and Nimodipine as Bronchial Smooth Muscle Relaxants in Guinea Pigs: Ex-Vivo Study**
Kalabharathi. H.L, Reddy Prasad. C, Pushpa VH, A M Satish, Vidya G Doddawad 58
- **Qualitative and Quantitative Analysis of Quercetin from *Hylocereus polyrhizus* Peel Methanol Extract by High-performance Thin Layer Chromatography**
Sri Wahdaningsih, Shoma Rizkifani, Eka Kartika Untari, Intan Yap 63
- **Repurposing Drugs for Inhibition of Hyperphosphorylated Tau Protein in Alzheimer's Disease: Molecular Modelling Studies**
Kye Vern Kee, Yi Suan Lim, Ee Xion Tan, Wai Keat Yam 67
- **Nickel stress on *Cymbopogon flexuosus* var. Krishna KR8 in response to Morphology, Pigment content and Essential Oil Quality**
Monalisa Mohanty, Alaka Mohanty Arpita Rout, Sujata Mohanty 76

•	Antioxidant, Anti-inflammatory and Fourier Transform Infrared (FTIR) Analysis of Flavonoid fractions from <i>Gymnopsoria montana</i>	
	Sandip Sutariya, Amit Gupta, Arundhati Thapliyal, Pratyaksha Singh, Anushka Dabral, Ajam Chand Shaikh, AB Bajpai.....	81
•	Antidiabetic Activity of Nutmeg Pulp (<i>Myristica fragrans</i> Houtt) Ethanol extract in Rats Induced by High Glucose Diet	
	Amran Nur, Ermalyanti Fiskia, M. Fakhrur Rajih H.Y, Ismail Rahman.....	89
•	Beneficial Effect of <i>Lactiplantibacillus pentosus</i> on Oxidative Stress and Histopathology in High-Fat-Induced Mice	
	Susmiati Susmiati, Sri Melia, Ilfa Khairina, Alimuddin Tofrizal.....	94
•	The Influence of different Concentrations of Sodium Alginate-Kappa Carrageenan as Polymer Combination and CaCl₂ as Crosslinker on The Physical Characteristics and Stability of Ciprofloxacin HCl Pulmospheres	
	Aqsha, A.C, Mahardian R, Hariyadi, D.M.....	103
•	Pharmacognostical and Phytochemical screening and Antioxidant Activity of <i>Stevia rebaudiana</i> Bertoni leaves	
	Hiba Hijazi, Racha AlKhatib.....	111
•	Determination of possible mechanism of Linalyl Acetate in Swiss albino Mice	
	Mamta Rani, Manisha Chikara, R C Khatri, Amit Lather, Tanuj Hooda.....	117
•	Melinjo Seeds Extract Attenuates Mercury chloride Exposure-Evoked Liver Damage via Modulation Oxidative stress marker in Rats	
	Devyana Dyah Wulandari, Mardi Santoso, Andreas Putro Ragil Santoso, Ary Andini, Devyani Diah Wulansari, Handayani.....	127
•	Development and Physicochemical Analysis of Compost and Vermicompost from Floral Waste	
	Rajat P. Singh, Rajneesh K. Agnihotri, Akhilesh Kumar.....	134
•	Investigating the effect of Flavor variation on the concentration of Lead and Cadmium in Potato chips products	
	Alaa Alassaf, Lina Soubh.....	139
•	A Comprehensive Review on the Sources, Biosynthesis, Extraction, and Characterization of β-Glucans	
	Shradha Chaudhari, Shikha Gaikwad, Satish Polshettiwar, Shraddha Ram.....	143
•	Molecular Docking and Secondary Metabolite ADMET Studies from <i>Curcuma longa</i> Linn. as an Antithrombotic	
	Subhan Rullyansyah, Idha Kusumawati, Djoko Agus Purwanto.....	152
•	Phytochemical Screening and GC-MS Profiling of Methanolic Leaf Extract of <i>Tephrosia wallichii</i> Graham of Indian thar Desert	
	Vandana.....	159
•	Quantification of Aloe-emodin in Aloe-Vera Extract and Commercial Herbal Formulation by RP-HPLC with QbD Application and Perform Antimicrobial, Antioxidant and Anthelmintic Activities Studies	
	Md Makmur Ahmad, Shamshir Khan, Zabih Ullah, Sana Hashmi, Aftab Alam, Md Sajid Ali.....	165
•	Pharmacokinetic Evaluation of Telmisartan Chronotherapeutic Press Coated Tablets	
	Bharathi Arigela, D. Chandra Sekhar Naik, Kovida Chanumolu, Yamini Durga Talaparthi.....	173
•	The effectiveness of <i>Ocimum sanctum</i> extract application as an Antimicrobial in the Supportive Therapy of Periodontal Disease	
	Anis Irmawati, Sesaria Junita Mega, Nur Imamatul Ummah, Visilmi Kaffah Putri Ayna, Fitriatuz Zakia, Yassir Ahmad Azzaim, Ala'a Saif Alqhtani, Raed Labib.....	177

• Investigation of the Charge Variant Profile of Non-cleavable Conjugated Antibodies <i>Ayat Abbood, Hassan Hadi Ali, Samir Azzat Malik, Dima AlDiab, Nasser Thallaj</i>	185
• Identifying Dementia Lewy Bodies in Alzheimer Dementia: Case Report <i>Christophorus Aditya Pawitan, Yulia Fatima Bessing, Erikavetri Yulianti</i>	191
• Differential Expression of IL-6 Following Topical Administration of the Probiotic Lactobacillus Casei Shirota in the Healing of Traumatic Ulcers in Wistar Rats (Rattus Novergicus) <i>Chiquita Prahasanti, Lambang Bargowo, Shafira Kurnia, Mela Karina, Nur Atika, Ketut Suardita</i>	196
• ADMET Properties, Bioactivity and Molecular Docking Studies of newly synthesized 5-(substituted phenyl)-3-(2(substituted) ethenyl-4,5-dihydro-1 H-pyrazole-1-carbaldehyde derivatives <i>Mrunmayee P. Toraskar, Ashwini H. Rewale, Kajal T. Kharat</i>	203
• The relaxation effect of Ethanolic Extract of Temu Putih (<i>Curcuma zedoaria</i>) on the Histamine-1 Receptor in Isolated Guinea Pigs Tracheal <i>Irsan Tama, Jekson Martiar Siahaan, Endy Juli Anto, Binarwan Halim</i>	212
• Dosage Optimization of Linezolid using Population Pharmacokinetics in South - Indian Pediatric Population <i>Keerthana Chandrasekar, Tarooob Runa T, Soorya U, Serolin S R, Manojkumar V</i>	217
• Determination of Total Flavonoid and Total Phenol content of Bugenvil Bracteas (<i>Bougainvillea spectabilis</i> Willd) and its Activity as an Antioxidant <i>Ni Nyoman Yuliani, Siswandono, Tristiana Erawati, Jefrin Sambara, Maria Lenggu</i>	221
• Emerging Implementation of Praziquantel Drug Loaded with Self-Micro Emulsifying Drug Delivery System to Enhance the Antischistosomal Efficacy <i>Kiran C. Mahajan, Komal G. Nirale, Ganesh Y. Dama, Poonam Bramhane, Ashwini S. Gawade</i>	227
• Computational based in-silico and molecular docking approach for screening of phyto-constituents on PPAR targets in the treatment of NAFLD <i>Shweta Padher, Vinayak Walhekar, Ravindra Kulkarni, Varsha Pokharkar</i>	232
• Qualitative and Quantitative Determination of α-santonin in the Aboveground parts of plants of the Caprifoliaceae Juss. family <i>Zhunussova Maira Abylovna, Ivasenko Svetlana Alexandrovna, Suleimen Yerlan, Sarsenbekova Akmaral Zhakhanovna, Abdullabekova Raisa Musulmanbekovna</i>	239
• Implementation of QbD and Preformulation Characteristics of Sublingual antihypertensive drug <i>Deepak Joshi, Naveen K Choudhary</i>	245
• A Pre-post Educational Intervention Study among Community Pharmacists in Antimicrobial Stewardship <i>Mohamed Elsayed Abdelbaset Edris, Dixon Thomas, Danial Baker, Seeba Zachariah</i>	251
• Analysis of the Potential Preparation of Jamblang (<i>Syzygium cumini</i> (L) Skells) Leaf Extract Gel for Healing wounds in the Mouth <i>Suzanna Sungkar, Santi Chismirina, Afrina, Qurrata 'Ayuni</i>	257
• Preparation of Drug Aloin Nanoparticles for Enhanced Bioavailability and Optimization by using a Drug Design Stat-ease software <i>Rishika Chauhan, Anuj Malik</i>	266
• Hepatoprotective and Wound Healing Activities of the <i>Halymenia ceylanica</i> Harvey ex Kutzing in Wistar albino mice <i>Fredrick Raja E., John Peter Paul J., Noorjahan A</i>	273
• The Mechanism of p38-MAPK (Mitogen-Activated Protein Kinase) Pathway Activation Mediated by <i>Enterococcus faecalis</i> in Root Canal Infection <i>Nur Ariska Nugrahani, Retno Pudji Rahayu, Muhammad Mulky Sulaiman</i>	280

•	Investigation of antioxidant activity, total phenolics, and TLC profiling of <i>Jatropha multifida</i> petiole extract	
	<i>Hanaifi, Alvina Nur Aini, Sri Redjeki Setyawati, Sotya Rawiningtyas, Henny Rochaeni</i>	285
•	Assessment of Pharmaceutical Quality Control of three Generic products of Vildagliptin Tablets available in Syrian market	
	<i>Raneem Darraj, Sadik Almekhlafi</i>	289
•	The Study of Immunomorphological properties and Therapeutic and Prophylactic effectiveness of Phytopreparations in Respiratory Diseases of Lambs	
	<i>Kh. A. Azizov, N.A. Zamanbekov, P. Sobiech, Sh. B. Turzhigitova, N.K. Kobdikova, Y.M. Korabayev, Zh.I. Kaziyeu, A.A. Tuganbay, M.S. Baimurzayeva, A.A. Zhylgeldiyeva</i>	295
•	Cytotoxicity Test of Aloe Vera Extract (<i>Aloe barbadensis</i> Mill.) against Gingival Fibroblast Cells as an Alternative to Curettage Irrigation	
	<i>Afi Rizki Amalia, Nur Ariska Nugrahani, Juwita Raditya Ningsih, Aprilia Yuanita Anwaristi</i>	305
•	Formulation and Evaluation of Ciprofloxacin SMEDDS with Argan Oil: A Promising approach for Improved Drug Delivery	
	<i>Ismail Bennani, Ali Cherif Chefchaoui, Safae Alaoui, Badreddine Moukafih, Soufiane El Marrakchi, Fatima-Zahra Bandadi, Youssef Hafidi, Younes Rahali, Abdeslam El Kartouti</i>	312
•	Validated UV Spectroscopic Method for Determination of Domperidone in Bulk and Pharmaceutical Formulation UV Spectroscopic Method	
	<i>Raveendra Babu Konduri, T Bhavani, P Srividya, M Chinna Eswaraiah</i>	317
•	Intra-articular Triamcinolone Acetonide Injection Effectiveness in Knee Joint pain patients with Osteoarthritis grade 2-3 Kellgren Lawrence	
	<i>Anisyah Achmad, Diah Permatasari, Thomas Erwin C. J. Huwae, Yoki Surya</i>	321
•	Fabrication and Characterization of Bone Graft Nano Bovine Hydroxyapatite-Gelatine-Calcium Sulfate: A Top-Down approach for a Natural Biomaterial	
	<i>M. Shofwan Haris, Aniek Setiya Budiadin, Mahardian Rahmadi, Toetik Aryani, Melisa Ramadhanar</i>	326
•	Technological Advancements in the Treatment of Anxiety and Quality of Sleep among Teaching Professionals - A Pilot Study	
	<i>Varalakshmi Ruthubalan, Vignesh Srinivasan, Prathap suganthirababu, Kumaresan Abathsagayam</i>	333
•	Total Phenol Content, Total Flavonoid Content and, <i>In vitro</i>, Antibacterial Activity of <i>Polygonum aviculare</i> and <i>Zygophyllum album</i> Extracts from Algeria against Multidrug-resistant Gram-negative Bacteria (MDR-GNB)	
	<i>Saida Hanoun, Hadjer Belkoun, Wiam Ouchene, Kelthoum Ahmed Gaid, Housseem Chenna, Hanane Mellal, Khaoula Aroua</i>	339
•	A Study of the effect of some Formulation and Preparation variables on Drug Release from Matrix Tablets	
	<i>Ranim Alrouhayyah, Nermin Dahma, Irena G Bratchikova</i>	345
•	Method development and validation for the simultaneous quantification of Rilpivirine and Cabotegravir in rabbit plasma using UPLC-MS/MS	
	<i>Asia, Revu Baby Nalanda</i>	355
•	Evidencing successful experience in removing a lost Implanon using C-arm machine: A case report	
	<i>Myat San Yi, Soe Lwin, Khin Than Yee, Mi Mi Khaing, Philip Korah, Tin Moe Nwe, Mon Mon Yee</i>	361
•	Protection of Exogenous Antioxidant of <i>Cinnamomum burmanii</i> as a Hepatoprotective on the Toxicological Responses of Nanoplastics in Rats (<i>Rattus norvegicus</i> L.)	
	<i>Hari Soepriandono, Sugiharto, Manikya Pramudya, Farah Annisa Nurbani, Firli Rahmah Primula Dewi, Lim Vuanghao, Aunurohim, Bayyinatul Muchtaromah, Alfiah Hayati</i>	365

•	Efficient Separation of Related Substances in Clidinium Bromide and Chlordiazepoxide Hydrochloride Capsules using Reversed-phase Ultra-performance Liquid Chromatography	
	<i>Garimi Tirumala Jyothesh Kumar, B.S.A. Andrews, V D N Kumar Abbaraju, P. Sunil Reddy, Nutulapati V.S. Venugopal, Kancharla Vijayalakshmi</i>	372
•	Biochemical and Hematological Evaluation of The Sub-Chronic Toxicity of <i>Hylocereuspolyrhizus</i> Peel Methanol Extracts in Wistar Rats	
	<i>Sri Wahdaningsih, Shoma Rizkifani, Eka Kartika Untari</i>	379
•	The Plant Essential oil Bacterial Targets: A Review	
	<i>Snigdharani Dash, Smaranika Pattnaik</i>	388
•	A Review of Medicinal plants for Infectious Oral Viral Diseases: A Systematic Review	
	<i>Hasan Rezazadeh, Hasti Hoseini, Aria Salari</i>	393
•	Exposures to Poisoning to Forensic Investigations and Public Health Views - A Toxicology Tapestry	
	<i>Patrik Viktor, Lakhvinder Kaur, Jai Shanker Pillai HP, Othman Mahjoob Khalaf, Mustafa Mudhafar, Hasibul Hasan, Joti Devi, Antonieto G. Alaban, Calvin R. Wei, Mohammad Jamali, Rezwan Ahmed Mahedi, Nikolaus Syrmos, Shahrin Risa Sejuti</i>	402
•	Strategies and Mechanisms for Enhancing Drug Bioavailability through Co-Amorphous Mixtures - A Comprehensive Review	
	<i>Ajay Bhagwat, Aayush Lokhande, Mauli Pingat, Rohit Doke, Santosh Ghule</i>	409
•	Effectiveness of the Nutritional Content and Bioactive Compounds of Ajwa Dates (<i>Phoenix dactylifera</i> L) against Anti-Mullerian Hormone (AMH) Levels: A Review	
	<i>Irfan Irfan, Nusratuddin Abdullah, Nasrudin A Mappaware, Suryani As'ad, Syamsuri Syakri</i>	415
•	Effect of <i>Eupatorium adenophorum</i> Extract on p53 Protein in Cancer Treatment	
	<i>Shilpa Rana, Uddipak Rai, Neha Kukreti, Pankaj Pant</i>	421
•	The Impact of Environmental Exposures on Pregnancy Outcomes	
	<i>Randa Khirfan, Heba Kotb, Huda Atiyeh, Nahid AlHasan, Asmaa Hassan</i>	427
•	Evolution and Advancements in Inhalation Therapy: A Comprehensive Review from Nebulizers to Dry Powder Inhalers	
	<i>Mayur R Waje, Annasaheb S Gaikwad, Kailas G Rathod, Anjali A Shinde, Ganesh S Lad, Kalyani P Awati</i>	436
•	Packaging of Edible Substances in Blisters: The Pharmaceutical Industry's Issues and their Impact on patients	
	<i>Sumit Kumar, Dinesh Kumar, Rajni, Nishan Singh</i>	445
•	Instructions to author	449