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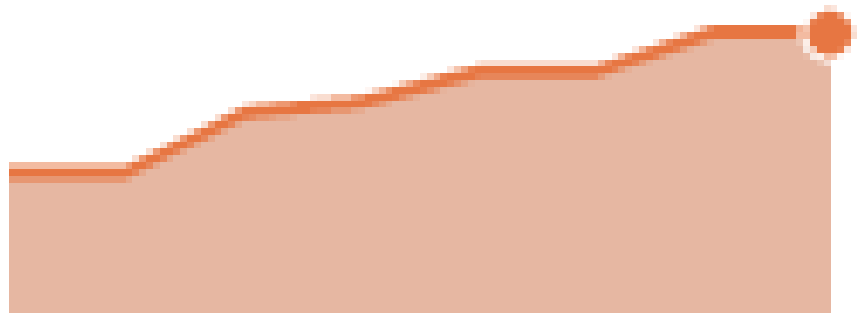
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Fermentative extraction of Amylase using waste Biomaterials as Substrate (AbstractView.aspx?PID=2021-14-9-10)

Author(s): S. Sharmila, S. Preetha, E. Kowsalya, R. Kamalambigeswari, L. Jeyanthi Rebecca

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Author(s): Loubna Koursaoui, Badr Satrani, Mohamed Ghanmi, Sara Cherrad, Imane Jaouadi, Said Hajib, El Mahjoub Aouane, Abdelaziz Chaouch

DOI: 10.52711/0974-360X.2021.00797 (<https://www.doi.org/10.52711/0974-360X.2021.00797>)

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Synthesis of Mono-Carbonyl Analogues of Curcumin Assisted by Microwave Irradiation (AbstractView.aspx?PID=2021-14-9-12)

Author(s): Bambang Wijianto, Cikra I. N. H. Safitri

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Author(s): Patel N, Patel S

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Isolation and Characterization of Flavonoids of the Ethanolic extracts of stems of Mimosa hamata (Willd.) by Chromatographic techniques (AbstractView.aspx?PID=2021-14-9-14)

Author(s): Khan N.I., Hatapakki B.C., Tamboli A.M.

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Formulation, Development and Evaluation of in-situ Periodontal Gel Containing Ofloxacin (AbstractView.aspx?PID=2021-14-9-15)

Author(s): R. R. Baghwan, A. W. Ambekar, S. S. Tamboli

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Author(s): V. Vyshali, N. Lalitha Jyotsna, Vasudha Bakshi, Syed Ismail, Dibyalochan Mohanty, T. Kavitha, M. Manoj

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Author(s): O.A. Bihdan, V.V. Parchenko

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Effects of Virgin coconut oil on Testicular toxicity induced by Cadmium in rats (AbstractView.aspx?PID=2021-14-9-18)

Author(s): Sanjana Basavanahally Lokesh, Rekha D Kini, Nayanatara Arunkumar, Sneha Shetty B, Anupama N, Bhagyalakshmi K

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Stability Indicating Photodiode Array Detector Based Estimation of Dapagliflozin Propanediol Monohydrate in API and Tablet Dosage Form by RP-UPLC (AbstractView.aspx?PID=2021-14-9-19)

Author(s): Ashok B. Patel, Ekta H. Vaghasiya, Amit R. Dudhatra, Amitkumar J. Vyas, Ajay I. Patel, Nilesh K. Patel, Hina M. Jadav

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Author(s): Akheruz Z. Ahmed, Prakashchandra Shetty, Shakta M. Satyam, Melanie Rose D'Souza, Archana M Herle, Varun K. Singh

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Chemopreventive potential of Kayan Karpam (Traditional formulation) on B(A)P induced lung cancer in experimental mice (AbstractView.aspx?PID=2021-14-9-20)

Author(s): Durga Devi Munireddy, Karthikkumar Venkatachalam, Kalaichelvan Pudhupalayam Thangavelu

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Application of Hydroxyapatite scaffold from *Portunus pelagicus* on OPG and RANKL expression after tooth extraction of *Cavia cobaya* (AbstractView.aspx?PID=2021-14-9-21)

Author(s): Michael Josef Kridanto Kamadjaja, Sherman Salim, Birgitta Dwitya Swastyayana Subiakto

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In-vitro and in vivo studies of traditionally prepared Zingiber officinale juice for Antimitotic and Lethality activity (AbstractView.aspx?PID=2021-14-9-22)

Author(s): Nadar Sowmya, Chouhan Raghavendra Singh, Kosha Patel, Harshil Patel, Tanvi Dodiya, Muthu Kumaradoss Mohan Maruga Raja

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Author(s): Budipratiwi Wisudyarningsih, Solihatus Sallama, Siswandono, Dwi Setyawan

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Author(s): Hiral Vasavada, Sailaja Inampudi

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Author(s): Haitham Qaralleh, Khaled M Khleifat, Ali M Khlaifat, Muhamad Al-limoun, Nafe M Al-Tawarah, Amir Menwer Alhroob, Ahmad B Alsaudi

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Author(s): Chandana Majee, Rupa Mazumder, Alka N. Choudhary

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PID=2021-14-
9-27)

Evaluation of Hepatoprotective effect of Phyllanthus niruri in experimental model of NAFLD (AbstractView.aspx?PID=2021-14-9-28)

Author(s): Manu Mehta, Sarika Gupta, Ajay Duseja

DOI: 10.52711/0974-360X.2021.00814 (<https://www.doi.org/10.52711/0974-360X.2021.00814>)

Views: 285 (pdf), 3389 (html)

Access:  Open Access

Cite: Manu Mehta, Sarika Gupta, Ajay Duseja. Evaluation of Hepatoprotective effect of Phyllanthus niruri in experimental model of NAFLD. *Research Journal of Pharmacy and Technology*. 2021; 14(9):4685-0. doi: 10.52711/0974-360X.2021.00814 (<https://www.doi.org/10.52711/0974-360X.2021.00814>)

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(AbstractView.aspx?
PID=2021-14-
9-28)

Effectivity Evaluation of Bisoprolol as Additional Hypertension Therapy in Geriatrics with Type 2 Diabetes Mellitus while ongoing with Dual Oral Anti-Hypertension Agent: A Cohort Study (AbstractView.aspx?PID=2021-14-9-29)

Author(s): Made Krisna Adi Jaya, Putu Rika Veryanti, I Gusti Agung Ayu Kartika

DOI: 10.52711/0974-360X.2021.00815 (<https://www.doi.org/10.52711/0974-360X.2021.00815>)

Views: 255 (pdf), 3472 (html)

Access:  Open Access

Cite: Made Krisna Adi Jaya, Putu Rika Veryanti, I Gusti Agung Ayu Kartika. Effectivity Evaluation of Bisoprolol as Additional Hypertension Therapy in Geriatrics with Type 2 Diabetes Mellitus while ongoing with Dual Oral Anti-Hypertension Agent: A Cohort Study. *Research Journal of Pharmacy and Technology*. 2021; 14(9):4691-6. doi: 10.52711/0974-360X.2021.00815 (<https://www.doi.org/10.52711/0974-360X.2021.00815>)

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(AbstractView.aspx?
PID=2021-14-
9-29)

Stability Indicating RP-UPLC Method for Simultaneous Estimation of Rabeprazole Sodium and Mosapride Citrate in Tablet Dosage form (AbstractView.aspx?PID=2021-14-9-3)

Author(s): Nilesh K. Patel, Bhumika H. Rana, Dhruvi M. Patel, Amitkumar J. Vyas, Ashok B. Patel, Ajay I. Patel

DOI: 10.52711/0974-360X.2021.00789 (<https://www.doi.org/10.52711/0974-360X.2021.00789>)

Views: 39 (pdf), 2651 (html)

Access:  Open Access

Cite: Nilesh K. Patel, Bhumika H. Rana, Dhruvi M. Patel, Amitkumar J. Vyas, Ashok B. Patel, Ajay I. Patel. Stability Indicating RP-UPLC Method for Simultaneous Estimation of Rabeprazole Sodium and Mosapride Citrate in Tablet Dosage form. *Research Journal of Pharmacy and Technology*. 2021; 14(9):4535-9. doi: 10.52711/0974-360X.2021.00789 (<https://www.doi.org/10.52711/0974-360X.2021.00789>)

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(AbstractView.aspx?
PID=2021-14-
9-3)

Phytochemical analysis and In vitro Antidiabetic activity of aqueous extract of Lagerstroemia speciosa and Aegle marmelos (AbstractView.aspx?PID=2021-14-9-30)

Author(s): Anandhu K S, Manu Jose, Sweety Kuriakose, Jayalakshmi P M

DOI: 10.52711/0974-360X.2021.00816 (<https://www.doi.org/10.52711/0974-360X.2021.00816>)

Views: 383 (pdf), 4402 (html)

Access:  Open Access

Cite: Anandhu K S, Manu Jose, Sweety Kuriakose, Jayalakshmi P M. Phytochemical analysis and In vitro Antidiabetic activity of aqueous extract of Lagerstroemia speciosa and Aegle marmelos. *Research Journal of Pharmacy and Technology*. 2021; 14(9):4697-1. doi: 10.52711/0974-360X.2021.00816 (<https://www.doi.org/10.52711/0974-360X.2021.00816>)

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(AbstractView.aspx?
PID=2021-14-
9-30)

Formulation and Evaluation of Oral Dispersion Tablet of Atorvastatin (AbstractView.aspx?PID=2021-14-9-31)

Author(s): Raman S.G.

DOI: 10.52711/0974-360X.2021.00817 (<https://www.doi.org/10.52711/0974-360X.2021.00817>)

Views: 93 (pdf), 2403 (html)

Access:  Open Access

Cite: Raman S.G. Formulation and Evaluation of Oral Dispersion Tablet of Atorvastatin. *Research Journal of Pharmacy and Technology*. 2021; 14(9):4702-4. doi: 10.52711/0974-360X.2021.00817 (<https://www.doi.org/10.52711/0974-360X.2021.00817>)

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(AbstractView.aspx?
PID=2021-14-
9-31)

Development of single channel EEG Acquisition system for BCI applications (AbstractView.aspx?PID=2021-14-9-32)

Author(s): V.G. Rajendran, S. Jayalalitha, K. Adalarasu, T. Nirmalraj

DOI: 10.52711/0974-360X.2021.00818 (<https://www.doi.org/10.52711/0974-360X.2021.00818>)

Views: 193 (pdf), 3651 (html)

Access:  Open Access

Cite: V.G. Rajendran, S. Jayalalitha, K. Adalarasu, T. Nirmalraj. Development of single channel EEG Acquisition system for BCI applications. *Research Journal of Pharmacy and Technology*. 2021; 14(9):4705-9. doi: 10.52711/0974-360X.2021.00818 (<https://www.doi.org/10.52711/0974-360X.2021.00818>)

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(AbstractView.aspx?
PID=2021-14-
9-32)

Synthesis and Antimicrobial activity of Piperazine analogues containing [1, 3, 4] Thiadiazole ring (AbstractView.aspx?PID=2021-14-9-33)

Author(s): Kottakki Naveen Kumar, Karteek Rao Amperayani, Uma Devi Parimi

DOI: 10.52711/0974-360X.2021.00819 (<https://www.doi.org/10.52711/0974-360X.2021.00819>)

Views: 80 (pdf), 2973 (html)

Access:  Open Access

Cite: Kottakki Naveen Kumar, Karteek Rao Amperayani, Uma Devi Parimi. Synthesis and Antimicrobial activity of Piperazine analogues containing [1, 3, 4] Thiadiazole ring. *Research Journal of Pharmacy and Technology*. 2021; 14(9):4710-4. doi: 10.52711/0974-360X.2021.00819 (<https://www.doi.org/10.52711/0974-360X.2021.00819>)

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(AbstractView.aspx?
PID=2021-14-
9-33)

A Comparative Study of Antioxidant Activity between Ethanolic and Aqueous Extract of *Cardiospermum halicacabum* (AbstractView.aspx?PID=2021-14-9-34)

Author(s): M.V. Kumudhavalli, V. Nandhinipriya

DOI: 10.52711/0974-360X.2021.00820 (<https://www.doi.org/10.52711/0974-360X.2021.00820>)

Views: 81 (pdf), 2841 (html)

Access:  Open Access

Cite: M.V. Kumudhavalli, V. Nandhinipriya. A Comparative Study of Antioxidant Activity between Ethanolic and Aqueous Extract of *Cardiospermum halicacabum*. *Research Journal of Pharmacy and Technology*. 2021; 14(9):4715-8. doi: 10.52711/0974-360X.2021.00820 (<https://www.doi.org/10.52711/0974-360X.2021.00820>)

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(AbstractView.aspx?
PID=2021-14-
9-34)

Phytochemical analysis and in vitro Antioxidant and Antibacterial activity of the Chloroform leaf extract of *Abelmoschus manihot* (L.) Medik (Malvaceae) (AbstractView.aspx?PID=2021-14-9-35)

Author(s): Selvaraj Divya, Subramanian Arivoli, Samuel Tennyson

DOI: 10.52711/0974-360X.2021.00821 (<https://www.doi.org/10.52711/0974-360X.2021.00821>)

Views: 180 (pdf), 3736 (html)

Access:  Open Access

Cite: Selvaraj Divya, Subramanian Arivoli, Samuel Tennyson. Phytochemical analysis and in vitro Antioxidant and Antibacterial activity of the Chloroform leaf extract of *Abelmoschus manihot* (L.) Medik (Malvaceae). *Research Journal of Pharmacy and Technology*. 2021; 14(9):4719-6. doi: 10.52711/0974-360X.2021.00821 (<https://www.doi.org/10.52711/0974-360X.2021.00821>)

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(AbstractView.aspx?
PID=2021-14-
9-35)

Comparative Study of different Solvent Extract of *Plectranthus amboinicus* Stem for their Diuretic Activity (AbstractView.aspx?PID=2021-14-9-36)

Author(s): Noor Salma, Chandra Prakash K, Syed Sagheer Ahmed, Saba Tabassum, Ahalya Devi K H

DOI: 10.52711/0974-360X.2021.00822 (<https://www.doi.org/10.52711/0974-360X.2021.00822>)

Views: 41 (pdf), 2502 (html)

Access:  Open Access

Cite: Noor Salma, Chandra Prakash K, Syed Sagheer Ahmed, Saba Tabassum, Ahalya Devi K H. Comparative Study of different Solvent Extract of *Plectranthus amboinicus* Stem for their Diuretic Activity. *Research Journal of Pharmacy and Technology*. 2021; 14(9):4727-0. doi: 10.52711/0974-360X.2021.00822 (<https://www.doi.org/10.52711/0974-360X.2021.00822>)

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(AbstractView.aspx?
PID=2021-14-
9-36)

Association of β -defensin 1 gene Polymorphism and dental caries susceptibility in Tamil Ethnicity (AbstractView.aspx?PID=2021-14-9-37)

Author(s): Harini Venkata Subbiah, Usha Subbiah, Athira Ajith

DOI: 10.52711/0974-360X.2021.00823 (<https://www.doi.org/10.52711/0974-360X.2021.00823>)

Views: 81 (pdf), 2862 (html)

Access:  Open Access

Cite: Harini Venkata Subbiah, Usha Subbiah, Athira Ajith. Association of β -defensin 1 gene Polymorphism and dental caries susceptibility in Tamil Ethnicity. *Research Journal of Pharmacy and Technology*. 2021; 14(9):4731-5. doi: 10.52711/0974-360X.2021.00823 (<https://www.doi.org/10.52711/0974-360X.2021.00823>)

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(AbstractView.aspx?
PID=2021-14-
9-37)

Formulation and Evaluation of Orodispersible Tablets Containing Taste Masked Mirabegron Resinate (AbstractView.aspx?PID=2021-14-9-38)

Author(s): Sarika S. Malode, Milind P. Wagh

DOI: 10.52711/0974-360X.2021.00824 (<https://www.doi.org/10.52711/0974-360X.2021.00824>)

Views: 98 (pdf), 2480 (html)

Access:  Open Access

Cite: Sarika S. Malode, Milind P. Wagh. Formulation and Evaluation of Orodispersible Tablets Containing Taste Masked Mirabegron Resinate. *Research Journal of Pharmacy and Technology*. 2021; 14(9):4736-2. doi: 10.52711/0974-360X.2021.00824 (<https://www.doi.org/10.52711/0974-360X.2021.00824>)

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(AbstractView.aspx?
PID=2021-14-
9-38)

RP–HPLC Method Validation for Simultaneous Estimation of Paracetamol and Caffeine in Formulating Pharmaceutical Form (AbstractView.aspx?PID=2021-14-9-39)

Author(s): Omer Jasim Mohammed, Mohammed Jassim Hamzah, Ahmed Mahdi Saeed

DOI: 10.52711/0974-360X.2021.00825 (<https://www.doi.org/10.52711/0974-360X.2021.00825>)

Views: 261 (pdf), 5205 (html)

Access:  Open Access

Cite: Omer Jasim Mohammed, Mohammed Jassim Hamzah, Ahmed Mahdi Saeed. RP–HPLC Method Validation for Simultaneous Estimation of Paracetamol and Caffeine in Formulating Pharmaceutical Form. *Research Journal of Pharmacy and Technology*. 2021; 14(9):4743-8. doi: 10.52711/0974-360X.2021.00825 (<https://www.doi.org/10.52711/0974-360X.2021.00825>)

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(AbstractView.aspx?
PID=2021-14-
9-39)

Standardization and Phytochemical screening of Carica papaya seeds (AbstractView.aspx?PID=2021-14-9-4)

Author(s): Varsha Singh, Aleza Rizvi, Udaivir Singh Sara

DOI: 10.52711/0974-360X.2021.00790 (<https://www.doi.org/10.52711/0974-360X.2021.00790>)

Views: 467 (pdf), 4451 (html)

Access:  Open Access

Cite: Varsha Singh, Aleza Rizvi, Udaivir Singh Sara. Standardization and Phytochemical screening of Carica papaya seeds. *Research Journal of Pharmacy and Technology*. 2021; 14(9):4540-6. doi: 10.52711/0974-360X.2021.00790 (<https://www.doi.org/10.52711/0974-360X.2021.00790>)

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(AbstractView.aspx?
PID=2021-14-
9-4)

Effectiveness of Obstetric Emergency Workshop in Medical Students in Newcastle University Malaysia (AbstractView.aspx?PID=2021-14-9-40)

Author(s): Mon Mon Yee, Myat San Yi, Myat Kalayar Nyunt, Bhavani Veasuvalingam, Sein Yee Sint, Hassan Karali, Alice Kurein

DOI: 10.52711/0974-360X.2021.00826 (<https://www.doi.org/10.52711/0974-360X.2021.00826>)

Views: 44 (pdf), 3480 (html)

Access:  Open Access

Cite: Mon Mon Yee, Myat San Yi, Myat Kalayar Nyunt, Bhavani Veasuvalingam, Sein Yee Sint, Hassan Karali, Alice Kurein. Effectiveness of Obstetric Emergency Workshop in Medical Students in Newcastle University Malaysia. *Research Journal of Pharmacy and Technology*. 2021; 14(9):4749-4. doi: 10.52711/0974-360X.2021.00826 (<https://www.doi.org/10.52711/0974-360X.2021.00826>)

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(AbstractView.aspx?
PID=2021-14-
9-40)

Assessment of the antidiabetic potential of Gymnemic acid as α -amylase and α -Glucosidase inhibitor using invitro and insilico tools (AbstractView.aspx?PID=2021-14-9-41)

Author(s): Porkodi Karthikeyan, M.V. Dass Prakash, Pavithra Devi Sendurapandi, Kalaiselvi Periandavan

DOI: 10.52711/0974-360X.2021.00827 (<https://www.doi.org/10.52711/0974-360X.2021.00827>)

Views: 72 (pdf), 2913 (html)

Access:  Open Access

Cite: Porkodi Karthikeyan, M.V. Dass Prakash, Pavithra Devi Sendurapandi, Kalaiselvi Periandavan. Assessment of the antidiabetic potential of Gymnemic acid as α -amylase and α -Glucosidase inhibitor using invitro and insilico tools. *Research Journal of Pharmacy and Technology*. 2021; 14(9):4755-9. doi: 10.52711/0974-360X.2021.00827 (<https://www.doi.org/10.52711/0974-360X.2021.00827>)

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(AbstractView.aspx?
PID=2021-14-
9-41)

Compatibility of the Ligand Binding Sites in the Spike Glycoprotein of COVID-19 with those in the Aminopeptidase and the Caveolins 1, 2 Proteins (AbstractView.aspx?PID=2021-14-9-42)

Author(s): Ali Adel Dawood, Mahmood Abduljabar Altobje, Haitham Abdul-Malik Alnori

DOI: 10.52711/0974-360X.2021.00828 (<https://www.doi.org/10.52711/0974-360X.2021.00828>)

Views: 12 (pdf), 2141 (html)

Access:  Open Access

Cite: Ali Adel Dawood, Mahmood Abduljabar Altobje, Haitham Abdul-Malik Alnori. Compatibility of the Ligand Binding Sites in the Spike Glycoprotein of COVID-19 with those in the Aminopeptidase and the Caveolins 1, 2 Proteins. *Research Journal of Pharmacy and Technology*. 2021; 14(9):4760-6. doi: 10.52711/0974-360X.2021.00828 (<https://www.doi.org/10.52711/0974-360X.2021.00828>)

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(AbstractView.aspx?
PID=2021-14-
9-42)

Method Development and Validation for Estimation of Istradefylline in Tablet Dosage form by RP-HPLC (AbstractView.aspx?PID=2021-14-9-43)

Author(s): Krishna Kishore Adireddy, Srinivasa Rao Baratam, Nagarjuna Hari Pratap S

DOI: 10.52711/0974-360X.2021.00829 (<https://www.doi.org/10.52711/0974-360X.2021.00829>)

Views: 96 (pdf), 2941 (html)

Access:  Open Access

Cite: Krishna Kishore Adireddy, Srinivasa Rao Baratam, Nagarjuna Hari Pratap S. Method Development and Validation for Estimation of Istradefylline in Tablet Dosage form by RP-HPLC. *Research Journal of Pharmacy and Technology*. 2021; 14(9):4767-2. doi: 10.52711/0974-360X.2021.00829 (<https://www.doi.org/10.52711/0974-360X.2021.00829>)

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(AbstractView.aspx?
PID=2021-14-
9-43)

Microscopic Evaluation of *Salvia stepposa* Des.- Schost above - ground part widespread in Kazakhstan (AbstractView.aspx?PID=2021-14-9-44)

Author(s): Levaya Ya. K., Ishmuratova M. Yu., Atazhanova G. A., Zilfikarov I. N., Loseva I. V.

DOI: 10.52711/0974-360X.2021.00830 (<https://www.doi.org/10.52711/0974-360X.2021.00830>)

Views: 23 (pdf), 2333 (html)

Access:  Open Access

Cite: Levaya Ya. K., Ishmuratova M. Yu., Atazhanova G. A., Zilfikarov I. N., Loseva I. V. Microscopic Evaluation of *Salvia stepposa* Des.- Schost above - ground part widespread in Kazakhstan. *Research Journal of Pharmacy and Technology*. 2021; 14(9):4773-6. doi: 10.52711/0974-360X.2021.00830 (<https://www.doi.org/10.52711/0974-360X.2021.00830>)

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(AbstractView.aspx?
PID=2021-14-
9-44)

Synthesis Characterization and Antibacterial Activity of Terazosin Hydrochloride Drug and Market Formulation (AbstractView.aspx?PID=2021-14-9-45)

Author(s): Anshul Kumar, Rajnish Kumar, Avijit Mazumdar

DOI: 10.52711/0974-360X.2021.00831 (<https://www.doi.org/10.52711/0974-360X.2021.00831>)

Views: 56 (pdf), 3199 (html)

Access:  Open Access

Cite: Anshul Kumar, Rajnish Kumar, Avijit Mazumdar. Synthesis Characterization and Antibacterial Activity of Terazosin Hydrochloride Drug and Market Formulation. *Research Journal of Pharmacy and Technology*. 2021; 14(9):4777-2. doi: 10.52711/0974-360X.2021.00831 (<https://www.doi.org/10.52711/0974-360X.2021.00831>)

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(AbstractView.aspx?
PID=2021-14-
9-45)

Chemical Compounds and Antimicrobial Activities of Actinomycetes Isolates from BRIS Soil (AbstractView.aspx?PID=2021-14-9-46)

Author(s): Ali Arkan Majhool, Hamidah Idris, Wan Mohd Nuzul Hakimi, Muhd Danish Daniel Abdullah

DOI: 10.52711/0974-360X.2021.00832 (<https://www.doi.org/10.52711/0974-360X.2021.00832>)

Views: 50 (pdf), 2430 (html)

Access:  Open Access

Cite: Ali Arkan Majhool, Hamidah Idris, Wan Mohd Nuzul Hakimi, Muhd Danish Daniel Abdullah. Chemical Compounds and Antimicrobial Activities of Actinomycetes Isolates from BRIS Soil. *Research Journal of Pharmacy and Technology*. 2021; 14(9):4783-8. doi: 10.52711/0974-360X.2021.00832 (<https://www.doi.org/10.52711/0974-360X.2021.00832>)

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(AbstractView.aspx?
PID=2021-14-
9-46)

Calocybe indicia extract modifies GABA and Serotonin levels to Alleviate anxiety in experimental adult Zebrafish models (AbstractView.aspx?PID=2021-14-9-47)

Author(s): Sarah Andrea Wilson, Anushree Nagaraj, Lalitha Vaidyanathan

DOI: 10.52711/0974-360X.2021.00833 (<https://www.doi.org/10.52711/0974-360X.2021.00833>)

Views: 69 (pdf), 2840 (html)

Access:  Open Access

Cite: Sarah Andrea Wilson, Anushree Nagaraj, Lalitha Vaidyanathan. Calocybe indicia extract modifies GABA and Serotonin levels to Alleviate anxiety in experimental adult Zebrafish models. *Research Journal of Pharmacy and Technology*. 2021; 14(9):4789-4. doi: 10.52711/0974-360X.2021.00833 (<https://www.doi.org/10.52711/0974-360X.2021.00833>)

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(AbstractView.aspx?
PID=2021-14-
9-47)

Role of Claudin-4 and Matrix Metalloproteinase-2 in Tumor Invasion of Colorectal Adenocarcinoma (AbstractView.aspx?PID=2021-14-9-48)

Author(s): Sitti Fatimah, Anny Setijo Rahaju, Alphania Rahniayu

DOI: 10.52711/0974-360X.2021.00834 (<https://www.doi.org/10.52711/0974-360X.2021.00834>)

Views: 33 (pdf), 2292 (html)

Access:  Open Access

Cite: Sitti Fatimah, Anny Setijo Rahaju, Alphania Rahniayu. Role of Claudin-4 and Matrix Metalloproteinase-2 in Tumor Invasion of Colorectal Adenocarcinoma. *Research Journal of Pharmacy and Technology*. 2021; 14(9):4795-0. doi: 10.52711/0974-360X.2021.00834 (<https://www.doi.org/10.52711/0974-360X.2021.00834>)

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(AbstractView.aspx?
PID=2021-14-
9-48)

Free Radical Scavenging potential of different extracts of Tabebuia roseo-alba (Ridl) Sand leaves (AbstractView.aspx?PID=2021-14-9-49)

Author(s): V. Suseela, L. Sushmita, R. Bharatkumar, R. Nirmaladevi

DOI: 10.52711/0974-360X.2021.00835 (<https://www.doi.org/10.52711/0974-360X.2021.00835>)

Views: 50 (pdf), 2640 (html)

Access:  Open Access

Cite: V. Suseela, L. Sushmita, R. Bharatkumar, R. Nirmaladevi. Free Radical Scavenging potential of different extracts of Tabebuia roseo-alba (Ridl) Sand leaves. *Research Journal of Pharmacy and Technology*. 2021; 14(9):4801-7. doi: 10.52711/0974-360X.2021.00835 (<https://www.doi.org/10.52711/0974-360X.2021.00835>)

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(AbstractView.aspx?
PID=2021-14-
9-49)

The Isolation of specifically lytic phages along with their extracted endolysins as antibacterial agents to MDR Enterococcus faecalis (AbstractView.aspx?PID=2021-14-9-5)

Author(s): Shaymaa Husham Ahmed, Rand R. Hafidh

DOI: 10.52711/0974-360X.2021.00791 (<https://www.doi.org/10.52711/0974-360X.2021.00791>)

Views: 60 (pdf), 2337 (html)

Access:  Open Access

Cite: Shaymaa Husham Ahmed, Rand R. Hafidh. The Isolation of specifically lytic phages along with their extracted endolysins as antibacterial agents to MDR Enterococcus faecalis. *Research Journal of Pharmacy and Technology*. 2021; 14(9):4547-4. doi: 10.52711/0974-360X.2021.00791 (<https://www.doi.org/10.52711/0974-360X.2021.00791>)

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(AbstractView.aspx?
PID=2021-14-
9-5)

Praxis of Technology and Tools in COVID-19 Response (AbstractView.aspx?PID=2021-14-9-50)

Author(s): Padmavathy K M, Rohith Sharan S, Noorzaid M, Rehanna M

DOI: 10.52711/0974-360X.2021.00836 (<https://www.doi.org/10.52711/0974-360X.2021.00836>)

Views: 22 (pdf), 2374 (html)

Access:  Open Access

Cite: Padmavathy K M, Rohith Sharan S, Noorzaid M, Rehanna M. Praxis of Technology and Tools in COVID-19 Response. *Research Journal of Pharmacy and Technology*. 2021; 14(9):4808-4. doi: 10.52711/0974-360X.2021.00836 (<https://www.doi.org/10.52711/0974-360X.2021.00836>)

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(AbstractView.aspx?
PID=2021-14-
9-50)

The comparison of two Chemometric Assisted UV Spectrophotometric Techniques with High-performance Liquid Chromatography Methods for simultaneous determination of three Antiemetic drugs used in Chemotherapy Induced Nausea and Vomiting (AbstractView.aspx?PID=2021-14-9-51)

Author(s): Veena Devi Singh, Vijay Kumar Singh, Sanjay J Daharwal

DOI: 10.52711/0974-360X.2021.00837 (<https://www.doi.org/10.52711/0974-360X.2021.00837>)

Views: 59 (pdf), 3343 (html)

Access:  Open Access

Cite: Veena Devi Singh, Vijay Kumar Singh, Sanjay J Daharwal. The comparison of two Chemometric Assisted UV Spectrophotometric Techniques with High-performance Liquid Chromatography Methods for simultaneous determination of three Antiemetic drugs used in Chemotherapy Induced Nausea and Vomiting. *Research Journal of Pharmacy and Technology*. 2021; 14(9):4815-4. doi: 10.52711/0974-360X.2021.00837 (<https://www.doi.org/10.52711/0974-360X.2021.00837>)

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(AbstractView.aspx?
PID=2021-14-
9-51)

A new Validated Stability Indicating RP-UFLC Method for the Estimation of Voriconazole in presence of internal standard (AbstractView.aspx?PID=2021-14-9-52)

Author(s): Paladugu Venkata Naveen, Seru Ganapaty

DOI: 10.52711/0974-360X.2021.00838 (<https://www.doi.org/10.52711/0974-360X.2021.00838>)

Views: 44 (pdf), 2547 (html)

Access:  Open Access

Cite: Paladugu Venkata Naveen, Seru Ganapaty. A new Validated Stability Indicating RP-UFLC Method for the Estimation of Voriconazole in presence of internal standard. *Research Journal of Pharmacy and Technology*. 2021; 14(9):4825-1. doi: 10.52711/0974-360X.2021.00838 (<https://www.doi.org/10.52711/0974-360X.2021.00838>)

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(AbstractView.aspx?
PID=2021-14-
9-52)

The Impact of several Antihypertensive drugs and Medicinal herbs on Induced hypertension in rabbits (AbstractView.aspx?PID=2021-14-9-53)

Author(s): Hayder Sabah Hasan, Imad Hashim, Zaid Al-Attar

DOI: 10.52711/0974-360X.2021.00839 (<https://www.doi.org/10.52711/0974-360X.2021.00839>)

Views: 68 (pdf), 2589 (html)

Access:  Open Access

Cite: Hayder Sabah Hasan, Imad Hashim, Zaid Al-Attar. The Impact of several Antihypertensive drugs and Medicinal herbs on Induced hypertension in rabbits. *Research Journal of Pharmacy and Technology*. 2021; 14(9):4832-6. doi: 10.52711/0974-360X.2021.00839 (<https://www.doi.org/10.52711/0974-360X.2021.00839>)

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(AbstractView.aspx?
PID=2021-14-
9-53)

Physicochemical characterization of Novel Particulate Delivery Systems for Antitumor/metastatic Therapeutics (AbstractView.aspx?PID=2021-14-9-54)

Author(s): Girgis Samuel, Uddin Nazim, Ahmed S. G. Srag El-Din

DOI: 10.52711/0974-360X.2021.00840 (<https://www.doi.org/10.52711/0974-360X.2021.00840>)

Views: 12 (pdf), 2016 (html)

Access:  Open Access

Cite: Girgis Samuel, Uddin Nazim, Ahmed S. G. Srag El-Din. Physicochemical characterization of Novel Particulate Delivery Systems for Antitumor/metastatic Therapeutics. *Research Journal of Pharmacy and Technology*. 2021; 14(9):4837-4. doi: 10.52711/0974-360X.2021.00840 (<https://www.doi.org/10.52711/0974-360X.2021.00840>)

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(AbstractView.aspx?
PID=2021-14-
9-54)

Prevalence of Diabetes Mellitus among Adult Slum Dwellers: A Cross Sectional Study (AbstractView.aspx?PID=2021-14-9-55)

Author(s): Akshata Guhe, Shiril R Nagarkar, Varsha D Pawar, Muzahid Sheikh, Anjalee Chivane

DOI: 10.52711/0974-360X.2021.00841 (<https://www.doi.org/10.52711/0974-360X.2021.00841>)

Views: 22 (pdf), 1760 (html)

Access:  Open Access

Cite: Akshata Guhe, Shiril R Nagarkar, Varsha D Pawar, Muzahid Sheikh, Anjalee Chivane. *Research Journal of Pharmacy and Technology*. 2021; 14(9):4845-8. doi: 10.52711/0974-360X.2021.00841 (<https://www.doi.org/10.52711/0974-360X.2021.00841>)

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(AbstractView.aspx?
PID=2021-14-
9-55)

Insilco Design and Potential Cytotoxic agents EGFR Inhibitors of 4(3H) Quinazolinone Derivatives (AbstractView.aspx?PID=2021-14-9-56)

Author(s): Kavitha K, Srinivasan N, Mohan S, Suresh R

DOI: 10.52711/0974-360X.2021.00842 (<https://www.doi.org/10.52711/0974-360X.2021.00842>)

Views: 53 (pdf), 2150 (html)

Access:  Open Access

Cite: Kavitha K, Srinivasan N, Mohan S, Suresh R. *Insilco Design and Potential Cytotoxic agents EGFR Inhibitors of 4(3H) Quinazolinone Derivatives*. *Research Journal of Pharmacy and Technology*. 2021; 14(9):4849-5. doi: 10.52711/0974-360X.2021.00842 (<https://www.doi.org/10.52711/0974-360X.2021.00842>)

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(AbstractView.aspx?
PID=2021-14-
9-56)

Determination of Serum Angiotensin-2 levels in Breast cancer patients at Damascus University Hospitals (AbstractView.aspx?PID=2021-14-9-57)

Author(s): Majd Haidar, Jumana Al Saleh

DOI: 10.52711/0974-360X.2021.00843 (<https://www.doi.org/10.52711/0974-360X.2021.00843>)

Views: 7 (pdf), 1960 (html)

Access:  Open Access

Cite: Majd Haidar, Jumana Al Saleh. *Determination of Serum Angiotensin-2 levels in Breast cancer patients at Damascus University Hospitals*. *Research Journal of Pharmacy and Technology*. 2021; 14(9):4856-8. doi: 10.52711/0974-360X.2021.00843 (<https://www.doi.org/10.52711/0974-360X.2021.00843>)

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(AbstractView.aspx?
PID=2021-14-
9-57)

A Novel UPLC Method for Simultaneous Estimation of Ertugliflozin and Sitagliptin in Bulk and Tablet Dosage Form (AbstractView.aspx?PID=2021-14-9-58)

Author(s): Deepthi R, Gowri Sankar D

DOI: 10.52711/0974-360X.2021.00844 (<https://www.doi.org/10.52711/0974-360X.2021.00844>)

Views: 92 (pdf), 2440 (html)

Access:  Open Access

Cite: Deepthi R, Gowri Sankar D. A Novel UPLC Method for Simultaneous Estimation of Ertugliflozin and Sitagliptin in Bulk and Tablet Dosage Form. *Research Journal of Pharmacy and Technology*. 2021; 14(9):4859-2. doi: 10.52711/0974-360X.2021.00844 (<https://www.doi.org/10.52711/0974-360X.2021.00844>)

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(AbstractView.aspx?
PID=2021-14-
9-58)

Comparative Histochemical analysis of above-ground parts of *Filipendula vulgaris* and *Filipendula ulmaria* growing in Central Kazakhstan (AbstractView.aspx?PID=2021-14-9-59)

Author(s): Yerbolat Tulebayev A., Margarita Ishmuratova Yu., Irina Losseva V., Wirginia Kukula-Koch, Ewa Poleszak, Nadirbek K. Sabit

DOI: 10.52711/0974-360X.2021.00845 (<https://www.doi.org/10.52711/0974-360X.2021.00845>)

Views: 39 (pdf), 2286 (html)

Access:  Open Access

Cite: Yerbolat Tulebayev A., Margarita Ishmuratova Yu., Irina Losseva V., Wirginia Kukula-Koch, Ewa Poleszak, Nadirbek K. Sabit. Comparative Histochemical analysis of above-ground parts of *Filipendula vulgaris* and *Filipendula ulmaria* growing in Central Kazakhstan. *Research Journal of Pharmacy and Technology*. 2021; 14(9):4863-7. doi: 10.52711/0974-360X.2021.00845 (<https://www.doi.org/10.52711/0974-360X.2021.00845>)

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(AbstractView.aspx?
PID=2021-14-
9-59)

Pharmacological Activities of Phytoconstituents and Essential oil obtained from *Cymbopogon citratus* Linn. (AbstractView.aspx?PID=2021-14-9-6)

Author(s): Prabhat Kumar Upadhyay, Prakhar Dixit, Debapriya Garabadu

DOI: 10.52711/0974-360X.2021.00792 (<https://www.doi.org/10.52711/0974-360X.2021.00792>)

Views: 234 (pdf), 3919 (html)

Access:  Open Access

Cite: Prabhat Kumar Upadhyay, Prakhar Dixit, Debapriya Garabadu. Pharmacological Activities of Phytoconstituents and Essential oil obtained from *Cymbopogon citratus* Linn. *Research Journal of Pharmacy and Technology*. 2021; 14(9):4555-0. doi: 10.52711/0974-360X.2021.00792 (<https://www.doi.org/10.52711/0974-360X.2021.00792>)

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(AbstractView.aspx?
PID=2021-14-
9-6)

A Novel approach to develop Etodolac Emulgel with Alkaloidal Penetration Enhancer (AbstractView.aspx?PID=2021-14-9-60)

Author(s): Adity Singh, Saurav S Ghosal, KM. Diksha S Singh, Manoj Mishra, Jayant Kumar Maurya

DOI: 10.52711/0974-360X.2021.00846 (<https://www.doi.org/10.52711/0974-360X.2021.00846>)

Views: 127 (pdf), 3012 (html)

Access:  Open Access

Cite: Adity Singh, Saurav S Ghosal, KM. Diksha S Singh, Manoj Mishra, Jayant Kumar Maurya. A Novel approach to develop Etodolac Emulgel with Alkaloidal Penetration Enhancer. *Research Journal of Pharmacy and Technology*. 2021; 14(9):4868-4. doi: 10.52711/0974-360X.2021.00846 (<https://www.doi.org/10.52711/0974-360X.2021.00846>)

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(AbstractView.aspx?
PID=2021-14-
9-60)

Pre-menstrual syndrome among the general female population of Saudi Arabia: Are there any Opportunities for Pharmacist's involvement in patients education? (AbstractView.aspx?PID=2021-14-9-61)

Author(s): Geetha Kandasamy

DOI: 10.52711/0974-360X.2021.00847 (<https://www.doi.org/10.52711/0974-360X.2021.00847>)

Views: 56 (pdf), 2859 (html)

Access:  Open Access

Cite: Geetha Kandasamy. Pre-menstrual syndrome among the general female population of Saudi Arabia: Are there any Opportunities for Pharmacist's involvement in patients education?. *Research Journal of Pharmacy and Technology*. 2021; 14(9):4875-0. doi: 10.52711/0974-360X.2021.00847 (<https://www.doi.org/10.52711/0974-360X.2021.00847>)

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(AbstractView.aspx?
PID=2021-14-
9-61)

Phytochemical and Pharmacological Evaluation of Annona reticulata (AbstractView.aspx?PID=2021-14-9-62)

Author(s): Veena Kadasala, Niladry Sekhar Ghosh, Santhosh Kumar Chinnaiyan, Arunabha Mallik, Manjunath S.Y., Chiranjib Bhattacharjee

DOI: 10.52711/0974-360X.2021.00848 (<https://www.doi.org/10.52711/0974-360X.2021.00848>)

Views: 34 (pdf), 2701 (html)

Access:  Open Access

Cite: Veena Kadasala, Niladry Sekhar Ghosh, Santhosh Kumar Chinnaiyan, Arunabha Mallik, Manjunath S.Y., Chiranjib Bhattacharjee. Phytochemical and Pharmacological Evaluation of Annona reticulata. *Research Journal of Pharmacy and Technology*. 2021; 14(9):4881-6. doi: 10.52711/0974-360X.2021.00848 (<https://www.doi.org/10.52711/0974-360X.2021.00848>)

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(AbstractView.aspx?
PID=2021-14-
9-62)

Synthesis of New Iron Nanoparticles derived from Beta Vulgaris Extract and its Bioactivity against Enterobacter cloacae, Anti-inflammatory and House Fly (AbstractView.aspx?PID=2021-14-9-63)

Author(s): Rasha Satam Hameed, Manal Khalid Mohammad, Sundus Hameed Ahmed, Isam Hussain T. Al-Kharkhi

DOI: 10.52711/0974-360X.2021.00849 (<https://www.doi.org/10.52711/0974-360X.2021.00849>)

Views: 25 (pdf), 2055 (html)

Access:  Open Access

Cite: Rasha Satam Hameed, Manal Khalid Mohammad, Sundus Hameed Ahmed, Isam Hussain T. Al-Kharkhi. Synthesis of New Iron Nanoparticles derived from Beta Vulgaris Extract and its Bioactivity against Enterobacter cloacae, Anti-inflammatory and House Fly. *Research Journal of Pharmacy and Technology*. 2021; 14(9):4887-0. doi: 10.52711/0974-360X.2021.00849 (<https://www.doi.org/10.52711/0974-360X.2021.00849>)

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(AbstractView.aspx?
PID=2021-14-
9-63)

Modafinil Cocrystals for Altered Physicochemical Properties (AbstractView.aspx?PID=2021-14-9-64)

Author(s): Thimmasetty J, Shashank NN, Abdul Raheem T, Shwetha SKK, Tanmoy G

DOI: 10.52711/0974-360X.2021.00850 (<https://www.doi.org/10.52711/0974-360X.2021.00850>)

Views: 68 (pdf), 2772 (html)

Access:  Open Access

Cite: Thimmasetty J, Shashank NN, Abdul Raheem T, Shwetha SKK, Tanmoy G. Modafinil Cocrystals for Altered Physicochemical Properties. *Research Journal of Pharmacy and Technology*. 2021; 14(9):4891-6. doi: 10.52711/0974-360X.2021.00850 (<https://www.doi.org/10.52711/0974-360X.2021.00850>)

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(AbstractView.aspx?
PID=2021-14-
9-64)

Impacts administration of Rifampicin on sperm DNA integrity and Male Reproductive System parameters in rats (AbstractView.aspx?PID=2021-14-9-65)

Author(s): Furqan Mohammed Al-Asady, Dalia Abdulzahra Al-Saray

DOI: 10.52711/0974-360X.2021.00851 (<https://www.doi.org/10.52711/0974-360X.2021.00851>)

Views: 57 (pdf), 3963 (html)

Access:  Open Access

Cite: Furqan Mohammed Al-Asady, Dalia Abdulzahra Al-Saray. Impacts administration of Rifampicin on sperm DNA integrity and Male Reproductive System parameters in rats. *Research Journal of Pharmacy and Technology*. 2021; 14(9):4897-2. doi: 10.52711/0974-360X.2021.00851 (<https://www.doi.org/10.52711/0974-360X.2021.00851>)

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(AbstractView.aspx?
PID=2021-14-
9-65)

Selectivity in the Formation of Straight-Chain Versus Cyclised products on Knoevenagel Condensation between Thiobarbituric acid and Naphthaldehydes (AbstractView.aspx?PID=2021-14-9-66)

Author(s): Abdullah Haddad, William Fraser

DOI: 10.52711/0974-360X.2021.00852 (<https://www.doi.org/10.52711/0974-360X.2021.00852>)

Views: 31 (pdf), 3031 (html)

Access:  Open Access

Cite: Abdullah Haddad, William Fraser. Selectivity in the Formation of Straight-Chain Versus Cyclised products on Knoevenagel Condensation between Thiobarbituric acid and Naphthaldehydes. *Research Journal of Pharmacy and Technology*. 2021; 14(9):4903-8. doi: 10.52711/0974-360X.2021.00852 (<https://www.doi.org/10.52711/0974-360X.2021.00852>)

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(AbstractView.aspx?
PID=2021-14-
9-66)

Optimisation of Culture media through Response surface methodology to improve Antioxidant activity of E. coli (AbstractView.aspx?PID=2021-14-9-67)

Author(s): Neha Sharma, Sharmistha Banerjee, Shuchi Kaushik, Rajesh Singh Tomar

DOI: 10.52711/0974-360X.2021.00853 (<https://www.doi.org/10.52711/0974-360X.2021.00853>)

Views: 16 (pdf), 2608 (html)

Access:  Open Access

Cite: Neha Sharma, Sharmistha Banerjee, Shuchi Kaushik, Rajesh Singh Tomar. Optimisation of Culture media through Response surface methodology to improve Antioxidant activity of E. coli. *Research Journal of Pharmacy and Technology*. 2021; 14(9):4909-2. doi: 10.52711/0974-360X.2021.00853 (<https://www.doi.org/10.52711/0974-360X.2021.00853>)

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(AbstractView.aspx?
PID=2021-14-
9-67)

Natural Potential Inhibitors for Covid 19 – An Insilico Approach (AbstractView.aspx?PID=2021-14-9-68)

Author(s): A. Anto Arockia Raj, J. Vinnarasi

DOI: 10.52711/0974-360X.2021.00854 (<https://www.doi.org/10.52711/0974-360X.2021.00854>)

Views: 72 (pdf), 2904 (html)

Access:  Open Access

Cite: A. Anto Arockia Raj, J. Vinnarasi. Natural Potential Inhibitors for Covid 19 – An Insilico Approach. *Research Journal of Pharmacy and Technology*. 2021; 14(9):4913-9. doi: 10.52711/0974-360X.2021.00854 (<https://www.doi.org/10.52711/0974-360X.2021.00854>)

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(AbstractView.aspx?
PID=2021-14-
9-68)

A Study on Antibacterial sensitivity character to Piper betle: A Potential for alternative medicine (AbstractView.aspx?PID=2021-14-9-69)

Author(s): Shalsh, F J, Altaif K I, Zharif DM, Hailat IA, Alqaisi KM, Al-Sultan I I

DOI: 10.52711/0974-360X.2021.00855 (<https://www.doi.org/10.52711/0974-360X.2021.00855>)

Views: 53 (pdf), 2784 (html)

Access:  Open Access

Cite: Shalsh, F J, Altaif K I, Zharif DM, Hailat IA, Alqaisi KM, Al-Sultan I I. A Study on Antibacterial sensitivity character to Piper betle: A Potential for alternative medicine. *Research Journal of Pharmacy and Technology*. 2021; 14(9):4920-4. doi: 10.52711/0974-360X.2021.00855 (<https://www.doi.org/10.52711/0974-360X.2021.00855>)

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(AbstractView.aspx?
PID=2021-14-
9-69)

Separation and Simultaneous Quantitation of Tolterodine Tartrate and Tamsulosin Hydrochloride in Capsule Formulation by using Stability-Indicating RP-HPLC-DAD Method (AbstractView.aspx?PID=2021-14-9-7)

Author(s): Shailesh Koradia, Priyal Patel, Ashok Mahajan, Falgun Mehta, Abhijeetsinh Solanki

DOI: 10.52711/0974-360X.2021.00793 (<https://www.doi.org/10.52711/0974-360X.2021.00793>)

Views: 39 (pdf), 2372 (html)

Access:  Open Access

Cite: Shailesh Koradia, Priyal Patel, Ashok Mahajan, Falgun Mehta, Abhijeetsinh Solanki. Separation and Simultaneous Quantitation of Tolterodine Tartrate and Tamsulosin Hydrochloride in Capsule Formulation by using Stability-Indicating RP-HPLC-DAD Method. *Research Journal of Pharmacy and Technology*. 2021; 14(9):4561-6. doi: 10.52711/0974-360X.2021.00793 (<https://www.doi.org/10.52711/0974-360X.2021.00793>)

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(AbstractView.aspx?
PID=2021-14-
9-7)

Effectiveness of Shamak Yoga on Essential Hypertension in comparison with Atenolol: A Randomized Controlled Trial (AbstractView.aspx?PID=2021-14-9-70)

Author(s): Mrityunjay Sharma, Harshala Rajurkar Sharma, Kedar Takalkar, Komal Meshram

DOI: 10.52711/0974-360X.2021.00856 (<https://www.doi.org/10.52711/0974-360X.2021.00856>)

Views: 162 (pdf), 3551 (html)

Access:  Open Access

Cite: Mrityunjay Sharma, Harshala Rajurkar Sharma, Kedar Takalkar, Komal Meshram. Effectiveness of Shamak Yoga on Essential Hypertension in comparison with Atenolol: A Randomized Controlled Trial. *Research Journal of Pharmacy and Technology*. 2021; 14(9):4925-8. doi: 10.52711/0974-360X.2021.00856 (<https://www.doi.org/10.52711/0974-360X.2021.00856>)

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(AbstractView.aspx?
PID=2021-14-
9-70)

In-vitro evaluation of nano-liposomal formulation of Fluconazole and Amphotericin B against visceral leishmaniasis (AbstractView.aspx?PID=2021-14-9-71)

Author(s): Atul Tripathi, Amber Vyas

DOI: 10.52711/0974-360X.2021.00857 (<https://www.doi.org/10.52711/0974-360X.2021.00857>)

Views: 58 (pdf), 2171 (html)

Access:  Open Access

Cite: Atul Tripathi, Amber Vyas. In-vitro evaluation of nano-liposomal formulation of Fluconazole and Amphotericin B against visceral leishmaniasis. *Research Journal of Pharmacy and Technology*. 2021; 14(9):4929-3. doi: 10.52711/0974-360X.2021.00857 (<https://www.doi.org/10.52711/0974-360X.2021.00857>)

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(AbstractView.aspx?
PID=2021-14-
9-71)

Assessment of medication intake forgetfulness, recent digital medication technology and associated individuals' acceptance and health privacy concerns (AbstractView.aspx?PID=2021-14-9-72)

Author(s): Sabrina Ait Gacem, Nageeb AGM Hassan, Afnan Abdul-Hameed Al-Qaysi, Maryam Jaafar AlAani

DOI: 10.52711/0974-360X.2021.00858 (<https://www.doi.org/10.52711/0974-360X.2021.00858>)

Views: 97 (pdf), 3597 (html)

Access:  Open Access

Cite: Sabrina Ait Gacem, Nageeb AGM Hassan, Afnan Abdul-Hameed Al-Qaysi, Maryam Jaafar AlAani. Assessment of medication intake forgetfulness, recent digital medication technology and associated individuals' acceptance and health privacy concerns. *Research Journal of Pharmacy and Technology*. 2021; 14(9):4934-0. doi: 10.52711/0974-360X.2021.00858 (<https://www.doi.org/10.52711/0974-360X.2021.00858>)

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(AbstractView.aspx?
PID=2021-14-
9-72)

The special techniques for Semen analysis and preparation (AbstractView.aspx?PID=2021-14-9-73)

Author(s): Nabaa Afeef A. AL-Nawab, Israa Hasan Ali, Lobna Kadim Jassim AL-Khafaji

DOI: 10.52711/0974-360X.2021.00859 (<https://www.doi.org/10.52711/0974-360X.2021.00859>)

Views: 27 (pdf), 2163 (html)

Access:  Open Access

Cite: Nabaa Afeef A. AL-Nawab, Israa Hasan Ali, Lobna Kadim Jassim AL-Khafaji. The special techniques for Semen analysis and preparation. *Research Journal of Pharmacy and Technology*. 2021; 14(9):4941-6. doi: 10.52711/0974-360X.2021.00859 (<https://www.doi.org/10.52711/0974-360X.2021.00859>)

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(AbstractView.aspx?
PID=2021-14-
9-73)

Formulation and Evaluation of Hydrogels containing Liposomes Entrapped with Antifungal Agent (AbstractView.aspx?PID=2021-14-9-74)

Author(s): Hemanth A. R., G. B. Kiran Kumar, Prakash Goudanavar, Dhruva Sagar S.

DOI: 10.52711/0974-360X.2021.00860 (<https://www.doi.org/10.52711/0974-360X.2021.00860>)

Views: 140 (pdf), 2668 (html)

Access:  Open Access

Cite: Hemanth A. R., G. B. Kiran Kumar, Prakash Goudanavar, Dhruva Sagar S. Formulation and Evaluation of Hydrogels containing Liposomes Entrapped with Antifungal Agent. *Research Journal of Pharmacy and Technology*. 2021; 14(9):4947-0. doi: 10.52711/0974-360X.2021.00860 (<https://www.doi.org/10.52711/0974-360X.2021.00860>)

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(AbstractView.aspx?
PID=2021-14-
9-74)

The Antiviral and Antibacterial properties of Plectranthus amboinicus and Piper longum with the Addition to Focaccia Bread Nutritional Value and Sensory Evaluation (AbstractView.aspx?PID=2021-14-9-75)

Author(s): H.M. Moyeenudin, R. Thiruchelvi

DOI: 10.52711/0974-360X.2021.00861 (<https://www.doi.org/10.52711/0974-360X.2021.00861>)

Views: 78 (pdf), 3059 (html)

Access:  Open Access

Cite: H.M. Moyeenudin, R. Thiruchelvi. The Antiviral and Antibacterial properties of Plectranthus amboinicus and Piper longum with the Addition to Focaccia Bread Nutritional Value and Sensory Evaluation. *Research Journal of Pharmacy and Technology*. 2021; 14(9):4951-6. doi: 10.52711/0974-360X.2021.00861 (<https://www.doi.org/10.52711/0974-360X.2021.00861>)

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(AbstractView.aspx?
PID=2021-14-
9-75)

Biological Activity of Papain and Papain-like (Cathepsin-K and Cathepsin-B) Enzymes as Therapeutical Modality Candidates in Degrading Collagen in Abnormal Scar (AbstractView.aspx?PID=2021-14-9-76)

Author(s): Herman Y. L. Wihastyoko, Setyawati Soeharto, Edi Widjajanto, Kusworini, Bambang Pardjianto

DOI: 10.52711/0974-360X.2021.00862 (<https://www.doi.org/10.52711/0974-360X.2021.00862>)

Views: 63 (pdf), 2205 (html)

Access:  Open Access

Cite: Herman Y. L. Wihastyoko, Setyawati Soeharto, Edi Widjajanto, Kusworini, Bambang Pardjianto. Biological Activity of Papain and Papain-like (Cathepsin-K and Cathepsin-B) Enzymes as Therapeutical Modality Candidates in Degrading Collagen in Abnormal Scar. *Research Journal of Pharmacy and Technology*. 2021; 14(9):4957-2. doi: 10.52711/0974-360X.2021.00862 (<https://www.doi.org/10.52711/0974-360X.2021.00862>)

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(AbstractView.aspx?
PID=2021-14-
9-76)

Synthesis and Diagnoses of New Metal Ions Complexes derived from Trimethoprim Schiff Bases (AbstractView.aspx?PID=2021-14-9-77)

Author(s): Rana R. Abed, Abeer S. Mohammed, Fadia J. Ahmed

DOI: 10.52711/0974-360X.2021.00863 (<https://www.doi.org/10.52711/0974-360X.2021.00863>)

Views: 38 (pdf), 2587 (html)

Access:  Open Access

Cite: Rana R. Abed, Abeer S. Mohammed, Fadia J. Ahmed. Synthesis and Diagnoses of New Metal Ions Complexes derived from Trimethoprim Schiff Bases. *Research Journal of Pharmacy and Technology*. 2021; 14(9):4963-8. doi: 10.52711/0974-360X.2021.00863 (<https://www.doi.org/10.52711/0974-360X.2021.00863>)

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(AbstractView.aspx?
PID=2021-14-
9-77)

The Cytotoxicity of Ethanolic Extract of Allium cepa L. on Hela Cell Lines (AbstractView.aspx?PID=2021-14-9-78)

Author(s): Annise Proboningrat, Shara Jayanti, Amaq Fadholly, Arif N. M. Ansori, Naimah Putri, Muhammad K. J. Kusala, Sri A. Sudjarwo, Fedik A. Rantam, Agung Budianto Achmad

DOI: 10.52711/0974-360X.2021.00864 (<https://www.doi.org/10.52711/0974-360X.2021.00864>)

Views: 114 (pdf), 2577 (html)

Access:  Open Access

Cite: Annise Proboningrat, Shara Jayanti, Amaq Fadholly, Arif N. M. Ansori, Naimah Putri, Muhammad K. J. Kusala, Sri A. Sudjarwo, Fedik A. Rantam, Agung Budianto Achmad. The Cytotoxicity of Ethanolic Extract of Allium cepa L. on Hela Cell Lines. *Research Journal of Pharmacy and Technology*. 2021; 14(9):4969-2. doi: 10.52711/0974-360X.2021.00864 (<https://www.doi.org/10.52711/0974-360X.2021.00864>)

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(AbstractView.aspx?
PID=2021-14-
9-78)

Effect of Tobacco on Lipoprotein Profile: A Comparative study among Smokers and Chewers (AbstractView.aspx?PID=2021-14-9-79)

Author(s): Roshan Kumar Jha, Ranjit S. Ambad, Priya Koundal, Akansha Singh

DOI: 10.52711/0974-360X.2021.00865 (<https://www.doi.org/10.52711/0974-360X.2021.00865>)

Views: 16 (pdf), 2322 (html)

Access:  Open Access

Cite: Roshan Kumar Jha, Ranjit S. Ambad, Priya Koundal, Akansha Singh. Effect of Tobacco on Lipoprotein Profile: A Comparative study among Smokers and Chewers. *Research Journal of Pharmacy and Technology*. 2021; 14(9):4973-6. doi: 10.52711/0974-360X.2021.00865 (<https://www.doi.org/10.52711/0974-360X.2021.00865>)

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PID=2021-14-
9-79)

Quantitative estimation of Silybin in Iraqi Silybum marianum by HPLC (AbstractView.aspx?PID=2021-14-9-8)

Author(s): Rasha Eldalawy, Widad M K Al-Ani, Wasan Abdul Kareem

DOI: 10.52711/0974-360X.2021.00794 (<https://www.doi.org/10.52711/0974-360X.2021.00794>)

Views: 47 (pdf), 2911 (html)

Access:  Open Access

Cite: Rasha Eldalawy, Widad M K Al-Ani, Wasan Abdul Kareem. Quantitative estimation of Silybin in Iraqi Silybum marianum by HPLC. *Research Journal of Pharmacy and Technology*. 2021; 14(9):4567-2. doi: 10.52711/0974-360X.2021.00794 (<https://www.doi.org/10.52711/0974-360X.2021.00794>)

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PID=2021-14-
9-8)

Study the Corrosion behavior of AA7051 Aluminum alloy at different temperatures and inhibitor concentration in Acidic medium (AbstractView.aspx?PID=2021-14-9-80)

Author(s): Khudhair Abbas Kareem Al-Rudaini, Khulood Abid Saleh Al-Saadie

DOI: 10.52711/0974-360X.2021.00866 (<https://www.doi.org/10.52711/0974-360X.2021.00866>)

Views: 45 (pdf), 2673 (html)

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Cite: Khudhair Abbas Kareem Al-Rudaini, Khulood Abid Saleh Al-Saadie. Study the Corrosion behavior of AA7051 Aluminum alloy at different temperatures and inhibitor concentration in Acidic medium. *Research Journal of Pharmacy and Technology*. 2021; 14(9):4977-2. doi: 10.52711/0974-360X.2021.00866 (<https://www.doi.org/10.52711/0974-360X.2021.00866>)

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9-80)

In silico designing of some Benzimidazole derivatives for Anti-fungal activity (AbstractView.aspx?PID=2021-14-9-81)

Author(s): Amrita Muralikrishnan, Radhika R Nair, Jifitha Banu, Leena K Pappachen

DOI: 10.52711/0974-360X.2021.00867 (<https://www.doi.org/10.52711/0974-360X.2021.00867>)

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Cite: Amrita Muralikrishnan, Radhika R Nair, Jifitha Banu, Leena K Pappachen. In silico designing of some Benzimidazole derivatives for Anti-fungal activity. *Research Journal of Pharmacy and Technology*. 2021; 14(9):4983-6. doi: 10.52711/0974-360X.2021.00867 (<https://www.doi.org/10.52711/0974-360X.2021.00867>)

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PID=2021-14-
9-81)

Kinetic, Thermodynamic Studies for Photo Degradation of Glibinclamide Drug (AbstractView.aspx?PID=2021-14-9-82)

Author(s): Amel S. Mahdi, Barakat A. F. Kamel, Athraa S. Ahmed, Kafi M. Dawood

DOI: 10.52711/0974-360X.2021.00868 (<https://www.doi.org/10.52711/0974-360X.2021.00868>)

Views: 33 (pdf), 3005 (html)

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Cite: Amel S. Mahdi, Barakat A. F. Kamel, Athraa S. Ahmed, Kafi M. Dawood. Kinetic, Thermodynamic Studies for Photo Degradation of Glibinclamide Drug. *Research Journal of Pharmacy and Technology*. 2021; 14(9):4987-0. doi: 10.52711/0974-360X.2021.00868 (<https://www.doi.org/10.52711/0974-360X.2021.00868>)

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9-82)

Extraction, Purification, Characterization and In Vitro Antibacterial properties of Sulfated Polysaccharide Extracted using Sargassum sp. (AbstractView.aspx?PID=2021-14-9-83)

Author(s): V. Hemalatha, T. Silambarasan, R. Dhandapani

DOI: 10.52711/0974-360X.2021.00869 (<https://www.doi.org/10.52711/0974-360X.2021.00869>)

Views: 110 (pdf), 3360 (html)

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Cite: V. Hemalatha, T. Silambarasan, R. Dhandapani. Extraction, Purification, Characterization and In Vitro Antibacterial properties of Sulfated Polysaccharide Extracted using Sargassum sp. *Research Journal of Pharmacy and Technology*. 2021; 14(9):4991-8. doi: 10.52711/0974-360X.2021.00869 (<https://www.doi.org/10.52711/0974-360X.2021.00869>)

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9-83)

Analysis of Lipid profile and Atherogenic index (AIP) in dyslipidemia rats given Ipomea batatas tuber extract (IBTE) (AbstractView.aspx?PID=2021-14-9-84)

Author(s): Ni Kadek Warditiani, Ni Made Widi Astuti, Pande Made Nova Armita Sari, Dewa Ayu Swastini, I Made Agus Gelgel Wirasuta

DOI: 10.52711/0974-360X.2021.00870 (<https://www.doi.org/10.52711/0974-360X.2021.00870>)

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Cite: Ni Kadek Warditiani, Ni Made Widi Astuti, Pande Made Nova Armita Sari, Dewa Ayu Swastini, I Made Agus Gelgel Wirasuta. Analysis of Lipid profile and Atherogenic index (AIP) in dyslipidemia rats given Ipomea batatas tuber extract (IBTE). *Research Journal of Pharmacy and Technology*. 2021; 14(9):4999-2. doi: 10.52711/0974-360X.2021.00870 (<https://www.doi.org/10.52711/0974-360X.2021.00870>)

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Management of patients under Bone Anti-Resorptive Drugs- A Survey among Dental Practitioners (AbstractView.aspx?PID=2021-14-9-85)

Author(s): Nandhini Subramaniam, Arvind Muthukrishnan

DOI: 10.52711/0974-360X.2021.00871 (<https://www.doi.org/10.52711/0974-360X.2021.00871>)

Views: 2 (pdf), 2431 (html)

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Cite: Nandhini Subramaniam, Arvind Muthukrishnan. Management of patients under Bone Anti-Resorptive Drugs- A Survey among Dental Practitioners. *Research Journal of Pharmacy and Technology*. 2021; 14(9):5003-6. doi: 10.52711/0974-360X.2021.00871 (<https://www.doi.org/10.52711/0974-360X.2021.00871>)

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PID=2021-14-
9-85)

UV Spectrophotometric Analysis and Validation of Dapsone in Semisolid Dosage Form (AbstractView.aspx?PID=2021-14-9-86)

Author(s): Gajanand Nangare, Varsha Tegeli, Suyash Ingle, Vinod Matole, Avinash Birajdar, Sagar Adlinge

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PID=2021-14-
9-86)

Detection of Closteridium difficile in patients with Hematological Malignancies: A Stool Based Immunochromatographic study (AbstractView.aspx?PID=2021-14-9-87)

Author(s): Suha A. AL-Fakhar, Saad Hasan Mohammed Ali, Khalil Ismail A. Mohammed, Wifaq M. Ali, Jinan M. Mousa

DOI: 10.52711/0974-360X.2021.00873 (<https://www.doi.org/10.52711/0974-360X.2021.00873>)

Views: 15 (pdf), 1961 (html)

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Cite: Suha A. AL-Fakhar, Saad Hasan Mohammed Ali, Khalil Ismail A. Mohammed, Wifaq M. Ali, Jinan M. Mousa. Detection of Closteridium difficile in patients with Hematological Malignancies: A Stool Based Immunochromatographic study. *Research Journal of Pharmacy and Technology*. 2021; 14(9):5010-4. doi: 10.52711/0974-360X.2021.00873 (<https://www.doi.org/10.52711/0974-360X.2021.00873>)

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PID=2021-14-
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The Effect of Pseudoephedrine (Sudafed) on Kinetic activity and histology of Livers and Kidneys in Albino Mice (AbstractView.aspx?PID=2021-14-9-88)

Author(s): Ban Jasim Mohamad, Faeza Aftan Zghair

DOI: 10.52711/0974-360X.2021.00874 (<https://www.doi.org/10.52711/0974-360X.2021.00874>)

Views: 63 (pdf), 2786 (html)

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Cite: Ban Jasim Mohamad, Faeza Aftan Zghair. The Effect of Pseudoephedrine (Sudafed) on Kinetic activity and histology of Livers and Kidneys in Albino Mice. *Research Journal of Pharmacy and Technology*. 2021; 14(9):5015-8. doi: 10.52711/0974-360X.2021.00874 (<https://www.doi.org/10.52711/0974-360X.2021.00874>)

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PID=2021-14-
9-88)

Anti-biofilm Activity of Epigallocatechin gallate (EGCG) against Streptococcus mutans bacteria (AbstractView.aspx?PID=2021-14-9-89)

Author(s): Prawati Nuraini, Mega Moeharyono Puteri, EksaArinda Pramesty

DOI: 10.52711/0974-360X.2021.00875 (<https://www.doi.org/10.52711/0974-360X.2021.00875>)

Views: 129 (pdf), 2427 (html)

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Cite: Prawati Nuraini, Mega Moeharyono Puteri, EksaArinda Pramesty. Anti-biofilm Activity of Epigallocatechin gallate (EGCG) against Streptococcus mutans bacteria. *Research Journal of Pharmacy and Technology*. 2021; 14(9):5019-3. doi: 10.52711/0974-360X.2021.00875 (<https://www.doi.org/10.52711/0974-360X.2021.00875>)

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PID=2021-14-
9-89)

Hydrodynamically Balanced Capsule of Famotidine: An Improved Delivery via Gastroretentive Hydrogels (AbstractView.aspx?PID=2021-14-9-9)

Author(s): Ritesh Kumar, Kashmira J. Gohil

DOI: 10.52711/0974-360X.2021.00795 (<https://www.doi.org/10.52711/0974-360X.2021.00795>)

Views: 24 (pdf), 1829 (html)

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Cite: Ritesh Kumar, Kashmira J. Gohil. Hydrodynamically Balanced Capsule of Famotidine: An Improved Delivery via Gastroretentive Hydrogels. *Research Journal of Pharmacy and Technology*. 2021; 14(9):4573-9. doi: 10.52711/0974-360X.2021.00795 (<https://www.doi.org/10.52711/0974-360X.2021.00795>)

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9-9)

Stability Indicating Assay Method Development and Validation of Simultaneous Estimation of Chlorzoxazone, Diclofenac Sodium and Paracetamol in Bulk Drug and Tablet by RP-HPLC (AbstractView.aspx?PID=2021-14-9-90)

Author(s): Krutika Patel, Sudheer Kumar Veriboina, S.G. Vasantharaju

DOI: 10.52711/0974-360X.2021.00876 (<https://www.doi.org/10.52711/0974-360X.2021.00876>)

Views: 158 (pdf), 3441 (html)

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Cite: Krutika Patel, Sudheer Kumar Veriboina, S.G. Vasantharaju. Stability Indicating Assay Method Development and Validation of Simultaneous Estimation of Chlorzoxazone, Diclofenac Sodium and Paracetamol in Bulk Drug and Tablet by RP-HPLC. *Research J. Pharm. and Tech.* 2021; 14(9):5024-8. doi: 10.52711/0974-360X.2021.00876 (<https://www.doi.org/10.52711/0974-360X.2021.00876>)

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9-90)

Prevalance and role of Melatonin on PCOS in its treatment using Herbal Drugs (AbstractView.aspx?PID=2021-14-9-91)

Author(s): Safeeq Ahamed, M. Sumitra, V. Chitra

DOI: 10.52711/0974-360X.2021.00877 (<https://www.doi.org/10.52711/0974-360X.2021.00877>)

Views: 124 (pdf), 3126 (html)

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Cite: Safeeq Ahamed, M. Sumitra, V. Chitra. Prevalance and role of Melatonin on PCOS in its treatment using Herbal Drugs. *Research Journal of Pharmacy and Technology.* 2021; 14(9):5029-3. doi: 10.52711/0974-360X.2021.00877 (<https://www.doi.org/10.52711/0974-360X.2021.00877>)

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A Review on Meropenem (AbstractView.aspx?PID=2021-14-9-92)

Author(s): Mohsina Abed, Sara Yousuf

DOI: 10.52711/0974-360X.2021.00878 (<https://www.doi.org/10.52711/0974-360X.2021.00878>)

Views: 436 (pdf), 3606 (html)

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Cite: Mohsina Abed, Sara Yousuf. A Review on Meropenem. *Research Journal of Pharmacy and Technology.* 2021; 14(9):5034-8. doi: 10.52711/0974-360X.2021.00878 (<https://www.doi.org/10.52711/0974-360X.2021.00878>)

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The Roles of Pharmacists in Cardiac Care units in Hospitals (AbstractView.aspx?PID=2021-14-9-93)

Author(s): Ibrahim Alissa, Abdullah Alotaibi, Malak Aldossari, Hussein Alhelal, Nagaraja Sreeharsha

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Views: 323 (pdf), 4501 (html)

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9-93)

Targeted Protein Degradation: Current Status and Future Prospects (AbstractView.aspx?PID=2021-14-9-94)

Author(s): Swarupananda Mukherjee, Saumyakanti Giri, Sohini Bera, Sharanya Mukherjee, Shankha Dey, Niladri Sekhar Roy

DOI: 10.52711/0974-360X.2021.00880 (<https://www.doi.org/10.52711/0974-360X.2021.00880>)

Views: 51 (pdf), 2902 (html)

Access:  Open Access

Cite: Swarupananda Mukherjee, Saumyakanti Giri, Sohini Bera, Sharanya Mukherjee, Shankha Dey, Niladri Sekhar Roy. Targeted Protein Degradation: Current Status and Future Prospects. *Research Journal of Pharmacy and Technology*. 2021; 14(9):5047-0. doi: 10.52711/0974-360X.2021.00880 (<https://www.doi.org/10.52711/0974-360X.2021.00880>)

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9-94)

Medicated Lacquer Formulation for the Treatment of Nail Psoriasis (AbstractView.aspx?PID=2021-14-9-95)

Author(s): Vignesh Selvaraj, Thiayagu Senthil, Krishnanand Anilkumar, N. Jawahar, Senthil Venkatachalam

DOI: 10.52711/0974-360X.2021.00881 (<https://www.doi.org/10.52711/0974-360X.2021.00881>)

Views: 83 (pdf), 5754 (html)

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Cite: Vignesh Selvaraj, Thiayagu Senthil, Krishnanand Anilkumar, N. Jawahar, Senthil Venkatachalam. Medicated Lacquer Formulation for the Treatment of Nail Psoriasis. *Research Journal of Pharmacy and Technology*. 2021; 14(9):5051-8. doi: 10.52711/0974-360X.2021.00881 (<https://www.doi.org/10.52711/0974-360X.2021.00881>)

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PID=2021-14-
9-95)

Effect of Ultra-diluted Medicines in Depression and Anxiety: A Narrative Review (AbstractView.aspx?PID=2021-14-9-96)

Author(s): Nandini Prashanth Bhat, Pugazhandhi Bakthavatchalam, Hareesh Krishnan, Ashwija Shetty, Prasanna Lokadolalu Chandracharya

DOI: 10.52711/0974-360X.2021.00882 (<https://www.doi.org/10.52711/0974-360X.2021.00882>)

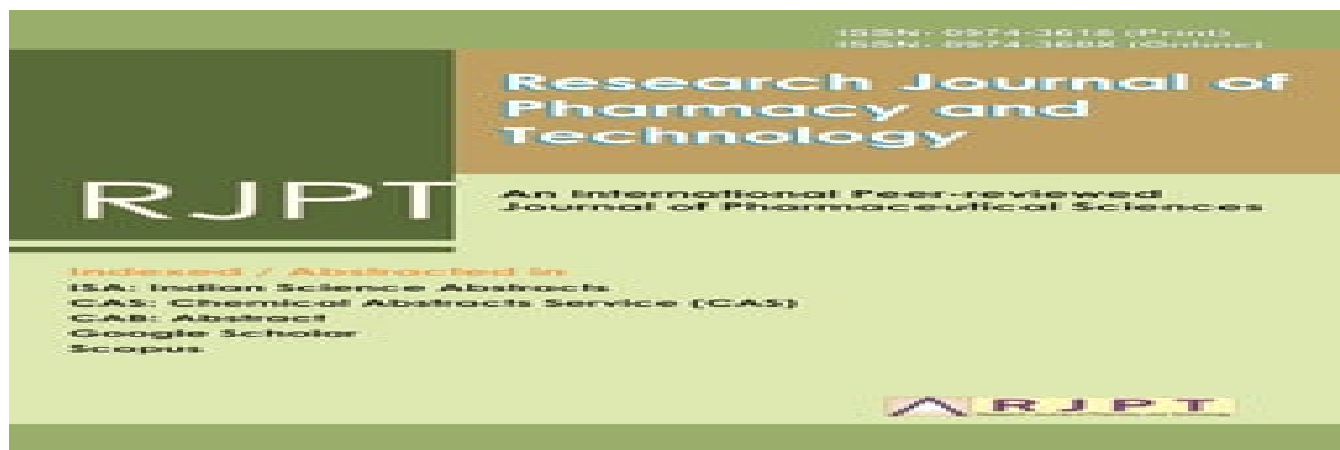
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Cite: Nandini Prashanth Bhat, Pugazhandhi Bakthavatchalam, Hareesh Krishnan, Ashwija Shetty, Prasanna Lokadolalu Chandracharya. *Effect of Ultra-diluted Medicines in Depression and Anxiety: A Narrative Review*. *Research Journal of Pharmacy and Technology*. 2021; 14(9):5059-4. doi: 10.52711/0974-360X.2021.00882 (<https://www.doi.org/10.52711/0974-360X.2021.00882>)

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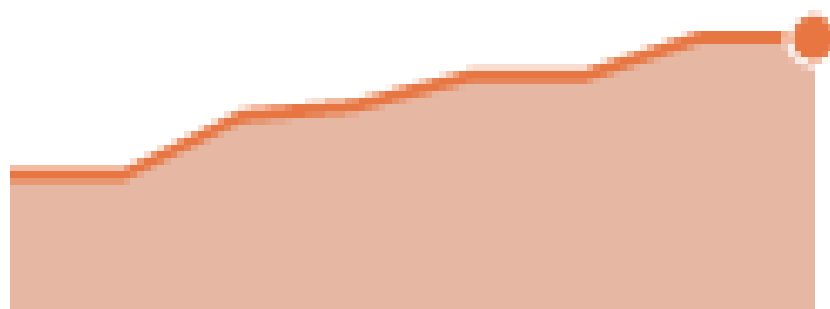
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Effectivity Evaluation of Bisoprolol as Additional Hypertension Therapy in Geriatrics with Type 2 Diabetes Mellitus while ongoing with Dual Oral Anti-Hypertension Agent: A Cohort Study

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ABSTRACT:

Background: Bisoprolol is a beta-blocker agent that is widely used as an antihypertensive agent, cardiac rate control, and agent to improve the cardiac ejection fraction. Bisoprolol is commonly added to hypertension therapy in patients with a high risk of heart disease such as hypertension with diabetes. The effectiveness of beta-blocker agents in the treatment of hypertension in geriatrics with diabetes without a history of CVD who are currently using dual therapy is still minimal. Evaluation of this matter needs to be done to complement scientific evidence in the use of bisoprolol in the treatment of hypertension in geriatrics with type 2 diabetes mellitus. Objective: This study aims to compare the effectiveness of bisoprolol as additional therapy in geriatric patients who have diabetes hypertension without CVD history while they are ongoing dual oral antihypertension therapy. Method: A cohort study involving 82 geriatrics was prospectively observed for four weeks. The exposure in this study was the bisoprolol agent. Subjects were divided into two groups, where all patients would undergo dual antihypertensive agents, namely Angiotensin-Receptor-Blocker (ARB) and Calcium-Channel-Blocker (CCB). Reductions in systolic and diastolic blood pressure were observed as primary outcomes, and success in achieving blood pressure goals was observed as a secondary outcome in the study. Result: There was no difference in the decrease in systolic and diastolic blood pressure in the exposure and non-exposure groups ($p > 0.05$). Judging from the large number of patients who successfully achieved the therapeutic target also showed no significant difference between the exposure and non-exposure groups with systolic and diastolic risk difference (RD) values of 1,091 (CI95%: 0.545-2.184) and 1,222 (CI95%: 0.781-1.913). Conclusion: The addition of bisoprolol agents in geriatric patients with hypertension and diabetes without a history of CVD is not required.

KEYWORDS: Bisoprolol, Oral Antihypertensive, Type 2 Diabetes Mellitus, Geriatrics, Combination Therapy.

INTRODUCTION:

Hypertension is a metabolic syndrome that often appears as a concomitant disease in people with diabetes, heart disease, and kidney disease. People can categorize to be hypertensive if they have a blood pressure $>130/80$ mmHg¹. People with blood pressure above 140/90 needs to be watched because the risk of heart and blood vessel diseases increases two times greater²⁻⁴.

Diabetes Mellitus is a disease that has a correlation with hypertension. Patients with diabetes mellitus with uncontrolled blood sugar levels have a risk of experiencing secondary hypertension 1.7 times greater than non-diabetes patients¹⁻³.

Geriatrics is one of the populations that needs attention on this issue. Elderly patients who have diabetes with hypertension must be treated seriously⁷⁻¹¹. Besides controlling blood glucose levels, controlling blood pressure has been shown to reduce the risk of cardiovascular disease by 20%-25% for myocardial infarction, 35%-40% for stroke, and by 50% for heart failure^{1,4}. Geriatric populations tend to have difficulty controlling blood pressure due to decreased physiological function of related organs and decreased vascular flexibility¹³⁻¹⁷. This condition requires the right combination of oral antihypertension (OAH) to be able to maintain the blood pressure within safe limits⁵.

Bisoprolol is an interesting drug to discuss in the treatment of hypertension with accompanying diabetes mellitus. Bisoprolol tends to exhibit lower blood pressure reduction outcomes when given monotherapy but has an excellent effect when given in combination with Angiotensin-Converting-Enzyme-Inhibitor (ACEI), Angiotensin-Receptor-Blocker (ARB), Calcium-Channel-Blocker (CCB), and diuretic drugs⁹⁻¹¹. Patients with a history of cardiovascular disease also show improvement in blood pressure control and prevent recurrent cardiovascular disease (CVD) when there is the addition of bisoprolol in hypertension therapy^{6,7}.

There is not much evidence to explain the effectiveness of bisoprolol in geriatric patients with hypertension and diabetes without a history of CVD who are currently on dual OAH therapy. This study aims to compare the effectiveness of bisoprolol as additional therapy in geriatric patients who have diabetes hypertension without CVD history. The results of this study are expected to provide evidence related to "needed" or "not needed" for the addition of bisoprolol in geriatric patients with diabetes hypertension, non-CVD history.

METHODS:

1. Study Design and Sample Size:

The design of this study was a prospective cohort study. This study design was done by observed the research subjects who get exposure and non-exposure to then looking for the resulting outcomes in the future. This research was conducted at one of the hospitals owned by the Indonesian National Police, which is located in the West Java Province of Indonesia in the period December 2018 to June 2019. This study has been approved by the ethics commission with approval number B/2121/VIII/2019/KEPK. All patients included in this study were understand the aims and the objectives of the study and agreed to be involved after completing and signing informed consent. Subjects who had met the inclusion and exclusion criteria were then sampled using a non-probability technique, namely consecutive sampling. Subjects who received additional bisoprolol therapy were allocated to the exposure group and without bisoprolol to the non-exposure group. The minimum sample size that must be met based on a cohort formula in this study was 60 subjects, which were divided into two groups. This minimum number of samples had an analytical confidence level of 5% and a power of statistics of 80%.

2. Study Population and Procedures:

The population in this study was elderly (>60 years old) who were undergoing hypertension therapy and had type 2 diabetes mellitus. The study population was undergoing outpatient treatment at the Indonesian National Police Hospital in the designated time period. This study sample was a part of the population that meets the study inclusion criteria. Inclusion criteria set in the study include a subject having a minimum age of 60 years or over; have a history of at least stage I hypertension with type 2 diabetes mellitus; currently undergoing mono hypertension therapy with uncontrolled blood pressure; and observed on the addition of second or third hypertension therapy with ACEI, ARB, CCB, diuretic or beta-blocker (bisoprolol) according to the hospital's prescribing pattern.

addition of second or third hypertension therapy with ACEI, ARB, CCB, diuretic or beta-blocker (bisoprolol) according to the hospital's prescribing pattern. Patients who were not willing to be part of the study; had a history of CVD; suffered from "emergency hypertension," as well as "urgency hypertension" were excluded from this study. All patients who were included in the study criteria, but during the follow-up period, they were lost of contact, they would be categorized as dropout criteria.

In this observational study, researchers did not intervene in therapies that have been chosen by doctors. However, patients will be grouped based on the therapy obtained. Subjects who received dual hypertension therapy with the addition of bisoprolol were included in the exposure group, while subjects who received dual hypertension therapy without the addition of bisoprolol were included in the non-exposure group. All subjects in each group will be followed for four weeks. Four weeks is the subject's routine control time to the hospital. After four weeks, the outcomes that arise from exposure can be observed for analysis.

3. Data Collection:

All data were obtained through direct observation of the study subjects when the subjects exercised control at the hospital polyclinic. Supporting data was also obtained from the patient's medical record. In this study, data will be collected into several categories consisting of baseline demographic characteristics (age, gender, blood sugar profile, BMI, and duration of diabetes); oral antihypertensive drug profiles (classes, dosage, and frequency of administration); and systolic-diastolic blood pressure (before getting exposure and after getting exposure).

4. Clinical Outcome:

The outcome of this study was a decrease in systolic and diastolic blood pressure measured by mercury sphygmomanometer. The measurement of blood pressure was repeated three times. The patient's baseline blood pressure was determined by averaging the actual measurements and the previous month's blood pressure history. Blood pressure after an observation was determined through the measurement of the average blood pressure of the patient for three consecutive days. The exposure in this study was the addition of the bisoprolol agent at a dose of 5 mg once a daily to the study subjects.

5. Statistical Analysis:

The data obtained were analyzed by IBM SPSS version 21. The primary outcome evaluation was performed using a combination of dependent t-test, independent t-test, and risk difference (RD). The t-test was used to analyze independent data that were normally distributed, such as sociodemographic parameters, comparison of systolic, and diastolic blood pressure. Chi-square was used for categorical data analysis on demographic characteristics. The risk difference was used to see the risk ratio for bisoprolol as an agent to assess the patient's blood pressure achievement (secondary outcome). All statistical analyzes were two-tailed, and p-values <0.05 were considered as statistically significant. Data on oral antihypertensive drug, dosage, and frequency of administration profile were presented descriptively.

RESULTS:

During the study period, 122 patients were found to be potentially part of the study. In the initial screening, 36 subjects were excluded because they did not meet the study criteria. A total of 86 subjects met the study criteria and followed the treatment for four weeks. During the follow-up process, there were four subjects dropped out because they lost contact. A total of 82 study subjects was successfully followed until the final stage. The process of determining the subjects of study in more detail is presented in Figure 1.

The demographic characteristics showed no significant difference between the two groups, except for the BMI variable. Subjects in the exposure group had a higher tendency for BMI compared to other groups. In general, subjects in this study can be stated to have uniform baseline characteristics. Detailed demographic characteristics data are shown in Table 1. From a total of 82 subjects observed, all patients went home with a dual OAH consisting of ARB and CCB. In the exposure group, additional bisoprolol therapy was observed during the study. Profile of drug types, dosages, and frequency of administration are presented in more detail in Tables 2 and 3.

The baseline of blood pressure between groups was equivalent. Its average range was 150/84mmHg to 153/87mmHg. This condition described that patient's blood pressure was still in the category of stage I hypertension based on JNC 7¹. Before this study was conducted, the patient was still using OAH as a monotherapy. Patients with diabetic hypertension have a blood pressure target of <130/80 mmHg, so that clinicians tried to make additional dual and triple therapy.

After four weeks of prospective follow-up, the study subjects showed improvement in blood pressure. Both the non-exposure and exposure groups showed significant improvement in blood pressure compared to baseline blood pressure (p <0.05). Interesting things were found when comparing groups. The addition of the 5 mg bisoprolol agent (exposure group) to the study subjects did not show superior changes in systolic and diastolic blood pressure compared to the non-exposure group (p > 0.05). Results are shown in Tables 4 and 5.

Figure 1. Flow Chart of Subjects Selection

Table 1. Subject Baseline Characteristics

S. No	Baseline Characteristics	Non-Exposure Group (n=42)	Exposure Group (n=42)	p-value	Type of Analysis
1	Age (year ± SD)	70 ± 5	71 ± 6	0.342	t-test
2	Gender [n (%)]			0.822	Chi-S
	Male	17 (41.46)	16 (39.02)		
	Female	24 (58.54)	25 (60.98)		
3	Blood Pressure (mmHg ± SD)				
	SBP	150 ± 17	153 ± 18	0.415	t-test
	DBP	84 ± 13	87 ± 16	0.349	t-test
4	ARBG (mg/dL ± SD)	167 ± 56	161 ± 49	0.637	t-test
5	BMI (kg/m ² ± SD)	24 ± 1	26 ± 2	0.003*	t-test
6	Diabetes Duration [year (%)]				
	>5 year	26 (63.41)	30 (73.17)	0.342	Chi-S
	<5 year	15 (36.59)	11 (26.83)		

Table information: n=subjects; SD=standard deviation; SBP=systolic blood pressure; DBP=diastolic blood pressure; ARBG=average random blood glucose; BMI=body mass index; Chi-S=chi-square test; *=statistically significant.

Table 2. Oral Antihypertensive Profile in Subjects

S. No	OAH Classes	Generic Name	Non-Exposure Group [n (%)] n=42	Exposure Group [n (%)] n=42
1	ARB	Valsartan	21 (51.22)	35 (85.37)
		Telmisartan	6 (14.63)	0 (0)
		Candesartan	10 (24.39)	4 (9.76)
		Irbesartan	3 (7.32)	1 (2.44)
		Amlodipine	33 (80.49)	39 (95.12)
2	CCB	Nifedipine	8 (19.51)	2 (4.88)
		Bisoprolol	0 (0)	41 (100)

Table information: OAH=oral antihypertension; ARB=angiotensin receptor blocker; CCB=calcium channel blocker; BB=beta blocker; n=subjects.

Table 3. Oral Antihypertensive Dosage and Frequency of Administration Profile in Subjects

S. No	OAH Classes	Generic Name	Dosage	Frequency of Administration
1	ARB	Valsartan	80 and 160 mg	Once Daily
		Telmisartan	80 mg	Once Daily
		Candesartan	8 and 16 mg	Once Daily
		Irbesartan	150 and 300 mg	Once Daily
		Amlodipine	5 and 10 mg	Once Daily
2	CCB	Nifedipine	30 mg XR	Once Daily
		Bisoprolol	5 mg	Once Daily

Table information: OAH=oral antihypertension; ARB=angiotensin receptor blocker; CCB=calcium channel blocker; BB=beta blocker; XR=extended release.

Table 4. Comparative Analysis of Dependent and Independent Systolic Blood Pressure

Group	Variable	Baseline (mmHg ± SD)	Post Observation (mmHg ± SD)	Differences (mmHg ± SD)	p-value Dependent Group	p-value Independent Group
Non Exposure (n=41)	SBP ± SD	150 ± 17	141 ± 19	9 ± 1	0.004*	0.115
Exposure (n=41)	SBP ± SD	153 ± 18	142 ± 22	11 ± 4	0.009*	

Table information: n=subjects; SD=standard deviation; SBP=systolic blood pressure; *=statistically significant.

Table 5. Comparative Analysis of Dependent and Independent Diastolic Blood Pressure

Group	Variable	Baseline (mmHg ± SD)	Post Observation (mmHg ± SD)	Differences (mmHg ± SD)	p-value Dependent Group	p-value Independent Group
Non Exposure (n=41)	DBP ± SD	84 ± 13	78 ± 10	6 ± 3	0.001*	0.585
Exposure (n=41)	DBP ± SD	87 ± 16	82 ± 12	5 ± 3	0.021*	

Table information: n=subjects; SD=standard deviation; DBP=diastolic blood pressure; *=statistically significant.

Table 6. Risk Difference Analysis of Systolic Blood Pressure

Group	SBP Goal (<130mmHg)	SBP Not Achieved (>130mmHg)	RD	CI 95%	p-value
Non Exposure (n=41)	12 (29.27%)	29 (70.73%)	1.091	0.545-2.184	0.806
Exposure (n=41)	11 (26.83%)	30 (73.17%)			

Table information: n=subjects; SBP=systolic blood pressure; RD=risk difference; CI=confidence interval.

Table 7. Risk Difference Analysis of Diastolic Blood Pressure

Group	DBP Goal (<80mmHg)	DBP Not Achieved (>80mmHg)	RD	CI 95%	p-value
Non Exposure (n=41)	22 (53.66%)	19 (46.34%)	1.222	0.781-1.913	0.377
Exposure (n=41)	18 (43.90%)	23 (56.10%)			

Table information: n=subjects; DBP=diastolic blood pressure; RD=risk difference; CI=confidence interval.

In this study, it was found that bisoprolol did not provide better systolic and diastolic blood pressure improvements, although it was found to be a significant improvement in blood pressure when compared with baseline blood pressure. This illustrates that, if the patient has characteristics similar to the subjects in this study, the addition of bisoprolol as an additional therapy is not necessary. The analysis continued by looking at the distribution of study subjects who achieved their hypertension therapy goals in diabetes mellitus. The results of the analysis are shown in Tables 6 and 7.

The results of the number of study subjects who achieved the systolic and diastolic blood pressure goals between groups also showed results that were not significantly different ($p > 0.05$). Risk difference (RD) values for systolic and diastolic blood pressure were 1.091 (CI95%: 0.545-2.184) and 1.222 (CI95%: 0.781-1.913), respectively, where these results describe that both the non-exposure and exposure groups have a balanced ability to improve blood pressure to achieve goals. The addition of bisoprolol agents in this study did not show better changes in systolic and diastolic blood pressure compared to other groups.

DISCUSSION:

Bisoprolol is a beta-1 selective antagonist drug, where it is widely used in CVD therapy¹⁰. The role of bisoprolol as an antihypertensive agent, cardiac rate control, and an agent for maintaining cardiac ejection fraction has been proven effective⁸⁻¹³. The results of this study showed that bisoprolol did not provide a better outcome in reducing systolic and diastolic blood pressure compared to the control group. Generally, based on evidence, beta-blocker agents do not show better effectiveness compared to antihypertensive agents such as ACEI, ARB, CCB, and diuretic when the patient has no history of CVD^{6,14-16}. A systematic review shows that the administration of beta-blocker agents was no better in terms of total mortality and the incidence of Adverse Drug Reaction (ADR) than diuretic agents, CCB, and Renin-Angiotensin-Aldosterone System (RAAS). However, beta-blockers show better outcomes in patients with CVD^{6,10,11,13,14,16}.

The subjects in this study did not have a history of CVD, but they had a CVD risk. In this condition, bisoprolol as an exposure agent shows no better blood pressure reduction outcome. Bisoprolol has a selective mechanism of action to reduce cardiac output by inhibiting beta-adrenergic receptors so that blood pressure can decrease, rate control is better, and can improve the reduction in heart ejection fraction^{8,9,14,15}. Hypertension in subjects without a history of CVD showed good effectiveness in reducing blood pressure when interfering with total peripheral resistance and cardiac output by RAAS, diuretic and CCB drugs therapy without beta-blocker drugs^{3,4,8,13,14}.

The results of this study indicate that geriatric patients who have hypertension and diabetes without a history of CVD, the selection of dual or triple therapy is recommended to choose a combination of RAAS, CCB, or diuretic agents before adding beta-blocker agents^{6,11,14,15}. The addition of a beta-blocker agent cannot be stated wrong in this case, but the addition of a beta-blocker in this condition is still unnecessary in the subject's condition in this study^{6,8,14,15}. This study has the limitation of not evaluating the potential side effects of bisoprolol that may occur in people with hypertension and diabetes. Some studies say that beta-blocker agents were at risk for causing dangerous ADRs such as hypoglycemia in patients with diabetes, but there was not much solid evidence to support that finding¹⁶⁻¹⁹.

Recommendations that can be informed to clinicians who treat geriatric patients with hypertension and diabetes based on the results of this study are always to monitor the patient's blood pressure and blood sugar profile. Geriatrics is a population that is vulnerable to ADR, so it needs to increase vigilance during the use of polypharmacy. When geriatric blood pressure has not been controlled with monotherapy or dual therapy, consider adding other antihypertensive agents such as RAAS, CCB, or diuretics first before choosing a beta-blocker agent^{7,16,18,20}. Evaluation of geriatric blood pressure should be done more frequently, like 2-3 times a month.

CONCLUSION:

The addition of bisoprolol agents in geriatric patients with hypertension and diabetes without a history of CVD showed ineffectiveness related to a reduction in systolic and diastolic blood pressure. Geriatrics with uncontrolled blood pressure without a history of CVD have not yet required bisoprolol as an additional antihypertensive agent to control the blood pressure of these geriatric patients.

CONFLICT OF INTEREST

This paper was written independently. All authors disclose no financial or personal relationships with other people or organizations that could inappropriately influence the work.

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