



SWAMY VIVEKANANDHA COLLEGE OF PHARMACY

(Affiliated to the The Tamil Nadu Dr.MGR. Medical University, Chennai,
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Elayampalayam, Tiruchengode-637 205, Namakkal (Dt), Tamil Nadu.



Newsletter on

CLINICAL PHARMA PRACTICE

An Update on Clinical Research and Drug Information



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CASE DISCRPTION

A 62 - year old male with known Type 2 Diabetes Mellitus and Systemic Hypertension, was admitted to the Orthopedics department on 15th November 2025 with acute onset bilateral knee pain of one day duration, associated with fever and painful restriction of limb movements. He had undergone Right Ureteroscopy and Lithotripsy with Bilateral Double J Stenting on 8th November 2025 for ureteric calculus, following which he was considered at risk for urosepsis; differentials at admission included urosepsis, reactive arthritis and crystal - induced arthritis gout of (pseudogout).



Dr. S. SATHYAMOORTHI,
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 Consult Orthopaedic Surgeon, Trauma,
 Arthroplasty (Joint Replacement) & Arthroscopy.
 Vivekanandha Medical Care Hospital, Tiruchengode.

Initial laboratory evaluation revealed that leukocytosis (total WBC 11,340 cells/mm³), markedly elevated ESR (135 mm/hr), positive C-reactive protein and raised serum procalcitonin (6.57 ng/mL), suggestive of a significant systemic inflammatory response. Rheumatoid factor was positive (10 IU/mL). Renal function tests showed elevated serum creatinine (1.9 mg/dL), indicating impaired renal function.

On 17th November 2025, bilateral knee joint aspiration was performed. Synovial fluid analysis demonstrated **orange - red, rod and rhomboid-shaped crystals consistent** with calcium pyrophosphate dihydrate (CPPD) crystal deposition, confirming a diagnosis of acute pseudogout; synovial fluid culture showed no bacterial growth. In view of the elevated inflammatory markers and recent urological procedure, concomitant or incipient urosepsis was still considered.

The patient was managed conservatively with broad-spectrum intravenous antibiotics (Meropenem and Linezolid), colchicine and Sodium Bicarbonate for crystal-induced arthritis, steroid 8mg Dexamethasone was given through IV for TDS along with supportive and nephroprotective medications. His clinical condition improved, with reduction in joint pain and systemic symptoms. He has discharged on 19th November 2025 with advice to continue prescribed oral medications (orthopedic, general and nephrology drugs as per discharge summary), to undergo physiotherapy for knee rehabilitation, and to attend follow-up in Orthopedics and Nephrology outpatient departments within seven days.

Pseudogout (CPPD disease) is distinguished from gout by **crystal morphology under polarized light microscopy**: CPPD crystals appear rhomboid or rod-shaped with weak positive birefringence (blue when parallel to compensator), while monosodium urate crystals in gout are needle-shaped with strong negative birefringence (yellow when parallel). Pseudogout preferentially affects larger joints like knees and is associated with older age, hyperparathyroidism, or hemochromatosis, whereas gout typically involves the first metatarsophalangeal joint and links to hyperuricemia.

Dr. S. SATHYAMOORTHI, D.Ortho., DNB(Ortho) FIJS., FASM.,
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**DRUG MONOGRAPH
XANOMELINE**

CATEGORY:

Nutritive Agent / Parenteral Mineral-Trace Mineral

INDICATION:

Iron deficiency anemia (IDA) in adult patients with chronic kidney disease (CKD)

In Patients who cannot tolerate or have not respond adequately to oral iron supplementation.

Restless legs syndrome.

MOA: Ferumoxytol, a carbohydrate-coated iron oxide releases iron within vesicles in the macrophages of the liver, spleen, and bone marrow where it then enters into either the intracellular storage iron pool, or is transferred to plasma transferrin and is incorporated into hemoglobin by erythroid precursor cells

DOSAGE AND ADMINISTRATION:

Chronic kidney disease-Iron deficiency anemia : 510 mg IV iron given twice 3–8 days apart (repeat if needed) or a single 1020 mg IV dose diluted in 100 mL NS over 15 minutes.

Iron deficiency anemia, intolerant or unsatisfactory response to oral iron: 510 mg IV iron twice, 3–8 days apart; repeat if deficiency persists.

Restless legs syndrome: 1020 mg IV, split into 2 doses given 2 to 7 days apart, administered by IV infusion over 15 minutes

CONTRAINDICATION: Hypersensitivity

CAUTION:

Cardiovascular:

Risk of significant hypotension; monitor.

Hematologic:

Excess iron storage/iatrogenic hemosiderosis may occur; monitor.

MRI:

MRI results may be temporarily affected during treatment and up to 3 months after.

ADVERSE DRUG REACTION:

Common:

peripheral edema, constipation, diarrhea, nausea, and dizziness.

Serious:

Cardiovascular:

Absent pulse, Cardiac arrest, Hypotension, Syncope, Tachycardia

Immunologic:

Anaphylaxis, hypersensitivity reaction.

Other:

Angioedema, Loss of consciousness.

DRUG APPROVED ON: 16th October 2025

REFERENCE: lexicdrug.com

COLLECTED BY: IV Pharm.D

RSV CAN BE SERIOUS: PROTECT YOUR BABY

Respiratory Syncytial Virus (RSV)

RSV is a common respiratory virus, that can affect people of all ages. It can spread to the lower respiratory tract, causing inflammation of the small airway passage entering the lungs. It can cause cold-like symptoms but can lead to more serious illness in infants, older adults and those with weakened immune systems. However for some the virus can be life-threatening- especially in infants, older adults and individuals with weakened immune systems.

High risk for RSV

- ◆ Premature babies
- ◆ Babies under 12 months of age.
- ◆ Patients of any age with a weakened immune system or underlying lung or heart problems.

Signs and symptom

RSV often begins 4-6 days after exposure.

Infants: Fever, severe cough, wheezing, rapid breathing, bluish colour of the skin due to lack of oxygen.

Adults/ Older children: Congested or runny nose, dry cough, low-grade fever, sore throat, sneezing, headache.

When to get medical help?

- ◆ Trouble breathing or wheezing.
- ◆ Bluish lips or skin (low oxygen)
- ◆ High fever or dehydration
- ◆ For Infants: Pauses in breathing or severe irritability.

Prevention & safety tips:

- ◆ Wash hands frequently and practice good hygiene.
- ◆ Covering cough and sneezes.
- ◆ Keep sick infants and elderly away from crowds.
- ◆ Breast feeding helps protects infants- recommended for first 6 months.

TREATMENT:

Current:

- ◆ **Supportive care** remains the primary treatment. (Fluids, fever control, oxygen if needed)
- ◆ **Ribavirin** is the only older antiviral used, but only in selected severe or high- risk hospitalized patients.
- ◆ New anti-virals are being studied.

New and Emerging Advances :

- ◆ **Clesrovimab (Enflonsia)**

“Newly introduced long - acting monoclonal antibody in 2025”

RSV Vaccines:

- ◆ **Adults:** Arexvy (GSK), Abrysvo (Pfizer), mResvia (Moderna)- recommended especially for adults 75+ and those 50-74 at higher risk.
- ◆ **Pregnancy:** Abrysvo can be given during weeks 32-36 to protect newborns.
- ◆ **Infants:** Do not receive RSV vaccines yet, but can be protected with long- acting monoclonal antibodies given after birth. **Nirsevimab and clesrovimab** are approved to prevent severe RSV in infants

Reference : <https://www.cdc.gov/rsv>.



Collected by : **Dr. C. Vaishnavidevi, Phram.D.,**
Assistant Professor, Department of Pharmacy Practice
Swamy Vivekanandha College of Pharmacy

DRUG SAFETY ALERTS IDENTIFIED AND ISSUED BY PvPI

Issuing Date	Suspected Drugs	Indication(s)	Adverse Drug Reaction
29 th August 2025	Tranexamic Acid	For the treatment of abnormal bleeding in which local hyperfibrinolysis is considered to be involved (pulmonary, haemorrhage, epistaxis, renal bleeding abnormal bleeding during or after prostate surgery). Haemorrhage or haemorrhage in risk of increased fibrinolysis of hereditary angioneurotic oedema. For the treatment of excessive bleeding in patients with hemophilia during & following tooth extraction. For the treatment of menorrhagia. For the prevention of oral hemorrhage in anticoagulant treated patients undergoing oral surgery.	Nasal Congestion
	Metoclopramide	To restore normal coordination and tone the upper digestive tract and relieve symptoms of gastro-duodenal dysfunction including heart burn, dyspepsia, nausea and vomiting associated with such conditions as reflux oesophagitis, duodenitis and hiatus hernia gastritis. For the treatment of nausea and vomiting.	Tachycardia

DEPARTMENT ACTIVITIES

DAY 1 (17th September 2025)

Department of Pharmacy Practice organized 5th National Pharmacovigilance Week 2025 (#NPW - 2025) from 17th - 23rd September 2025 on the theme "Your Safety, Just a Click Away: Report to PvPI"

Role play and street play was conducted at Swamy Vivekanandha Medical College Hospital and Research Institute, Tiruchengode on 17th September 2025 as a part of National Pharmacovigilance Week 2025.





Department of Pharmacy Practice organized Slogan Writing Competition entitled "Medicine Vigilance, Patient Assurance" on 17th September 2025 at Swamy Vivekanandha College of Pharmacy.

Department of Pharmacy Practice organized Quiz Competition theme "Your Safety, Just a Click Away: Report to PvPI" on 17th September 2025 at Seminar Hall, Swamy Vivekanandha College of Pharmacy.



DAY 2 (18th September 2025)

Department of Pharmacy Practice conducted ADR awareness programme among the public through Pamphlet Distribution at Swamy Vivekanandha Medical Care Hospital and Research Institute, Tiruchengode on 18th September 2025.



Department of Pharmacy Practice conducted an Oral Presentation Competition on the theme "Integrating Scientific Advances and Safety: Innovations in Pharmacovigilance" at Swamy Vivekanandha College of Pharmacy held on 18th September 2025.

DAY 3 (19th September 2025)



Department of Pharmacy Practice conducted CME Program entitled "Pharmacovigilance: Bridging Knowledge and Clinical Excellence for Safer Patient Care" at Swamy Vivekanandha Medical Care Hospital and Research Institute, Tiruchengode on 19th September 2025.



DAY 4 (20th September 2025)

Department of Pharmacy Practice conducted ADR e - Poster Competition with the theme "Your Safety, Just a Click Away: Report to PvPI" through Google Meet on 20th September 2025 throughout Tamil Nadu.



DAY 5 (22nd September 2025)



Department of Pharmacy Practice organised guest Lecture on "Pharmacovigilance – Then, Now and Future" The session was delivered by Mr. Sivaraman Vadivelu, M.Tech., B.Pharm, at VDCW, Seminar Hall on 22nd September 2025.

NATIONAL PHARMACIST DAY

Department of Pharmacy Practice observed "World Pharmacists Day 2025", on the theme "**Think Health, Think Pharmacist**" on 25th September 2025. IV Pharm.D students commemorated the vital role of pharmacists in healthcare by taking the Pharmacist oath, organized a voluntary blood donation camp and performed an engaging health-themed drama.



BLOOD DONATION CAMP

Department of Pharmacy Practice organized Blood Donation Camp at the Swamy Vivekanandha Medical College and Research Institute, Tiruchengode on 25th September 2025.



WEBINAR



WEBINAR
OVERCOMING PRACTICAL & ECONOMIC CHALLENGES IN PHARMACOECONOMICS & OUTCOMES RESEARCH

01st November, 2025
WEDNESDAY
6:30 PM TO 7:30 PM IST

Scan to Join

Dr. Muhammed Rashid
Post-Doctoral Research Associate
Department of Pharmacotherapy
College of Pharmacy, University of Utah

Department of Pharmacy Practice organized a Webinar on the topic “Overcoming Practical & Economic challenges in pharmacoeconomics & outcomes research” on 1st November 2025 by Dr. Muhammed Rashid, Post – Doctoral Research Associate, Department of Pharmacotherapy, College of Pharmacy, University of Utah.

GUEST LECTURE

Department of Pharmacy Practice organized guest Lecture on the topic “Go Beyond Dispensing – Practice is the Need of the Hour” on 7th November 2025 by Mr. Jacob Nicolas, M.Pharm., Director ACNOVA, Canada.



STUDENTS ACHIEVEMENT



IV and V Pharm. D students participated in three days National Workshop on "AI-Driven Clinical Research: Bridging Technology, Biomedical Research and Health Sciences." Organized by JSS College of Pharmacy, Nilgiris, held from 06th to 08th November 2025.

V Pharm. D students participated in **ID 360 Degree** on PK/PD strategies, Stewardship Tools, and Bug Updates organized by Kimshealth, at Trivandrum, Kerala on 22th & 23rd November 2025.



Ms. Christy Immaculate J of V Pharm D won first Prize in ₹1500 cash award an Oral Presentation Competition on the topic "**Nitrofurantoin induced DRESS syndrome**" during the "5th National Pharmacovigilance Week" held on 18th September 2025 at VDCW

Ms. Aishwarya S of Pharm D intern won second Prize in ₹1000 cash award an Oral Presentation Competition on the topic "**A case of Hypokalemia associated with abiraterone in therapy of Prostate cancer**" during the "5th National Pharmacovigilance Week" held on 18th September 2025 at VDCW, Seminar Hall.



Ms. Sowmya R of IV Pharm D won Third Prize in ₹500 cash award an Oral Presentation Competition on the topic "**Antimicrobial resistance and Piperacillin Tazobactam induced Anaphylaxis in patient with Multiple Renal Calculi**" during the "5th National Pharmacovigilance Week" held on 18th September 2025 at VDCW, Seminar Hall.

Ms. Jeevitha K, Ms. Kaviyazhini S, Ms. Akila Sree J and Ms.Kanishgha Sree M won second prize in ₹2000 cash award an **Quiz Competition** as part of "5th National Pharmacovigilance Week" held on 17th September 2025 at VDCW, Seminar Hall.



Ms. Gopika Shri and Ms.lavanya E, Ms. Gayathri R, Ms. Bawya R won second prize in ₹1500 cash award an Quiz Competition conducted as part of "5th National Pharmacovigilance Week" held on 17th September 2025 at VDCW, Seminar Hall.



Department of Pharmacy Practice organized an e -Poster Competition on the theme “Your Safety, Just a Click Away – Report PvPI” as part of the 5th National Pharmacovigilance Week 2025. The event, held via Google Meet on 20th September 2025. Mr. Lokesh A from SSM College of Pharmacy won first prize and receive a cash award of ₹5000.

Department of Pharmacy Practice organized an e -Poster Competition on the theme "Your Safety, Just a Click Away – Report PvPI" as part of the 5th National Pharmacovigilance Week 2025. The event, held via Google Meet on 20th September 2025, Ms .Priyadharshini R from Swamy Vivekanandha College of Pharmacy won Second prize and receive a cash award of ₹3000.



Department of Pharmacy Practice organized an e -Poster Competition on the theme "Your Safety, Just a Click Away – Report PvPI" as part of the 5th National Pharmacovigilance Week 2025. The event, held via Google Meet on 20th September 2025, Ms. Punithavathy S from SSM College of Pharmacy won third prize and receive a cash award of ₹2000.

The Department of Pharmacy Practice organized the “5th National Pharmacovigilance Week” on 17th September 2025 at VDCW, Seminar Hall. As part of the celebrations, a slogan competition was conducted. Ms. Shravanambiga B of II Pharm.D won First Prize with a cash award of ₹750, Ms. Nithyasri T of III Pharm.D won Second Prize with a cash award of ₹500, and Ms. Kaviyazhini of IV B.Pharm Third Prize with a cash award of ₹250.



04 No's of Pharm.D interns were participated and Ms.K. Aishwarya won II - place in ADR awareness drawing competition conducted by SVMCH & RI held on 23rd September 2025.

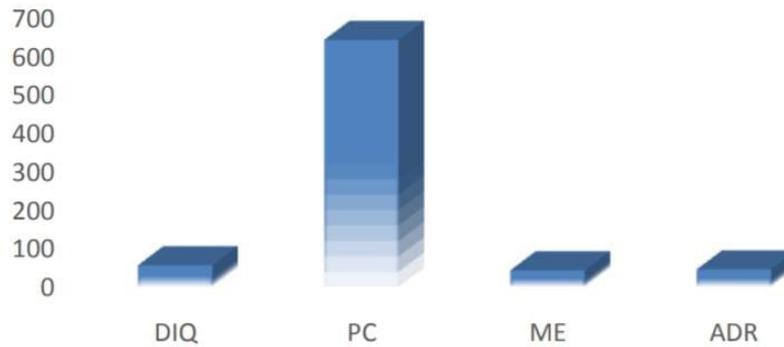
Ms. Christy Immaculate J of V Pharm D won first Prize in ₹3000 cash award an Online National Essay Writing competition 2025 on the topic "Pharmacist bringing the gap between public health and vaccination" organized by Dattakala College of Pharmacy, Pune held on 29th November 2025.



CLINICAL ACTIVITIES

Clinical activities done by our Pharm.D interns and V Pharm.D @ Vivekanandha Medical Care Hospital, Tiruchengode. under the Guidance of Preceptor

CLINICAL ACTIVITIES @ VMCH



PUBLICATIONS

A CASE SERIES ON CEFTRIAXONE-INDUCED HAEMOLYTIC ANAEMIA

Dr.R.Subashini¹, Angelin grace T², Kaushika S², Ann Jency A²

¹Head and Professor, Department of pharmacy practice, Swamy vivekanandha college of pharmacy, Elayampalayam, Tiruchengode, Namakkal District, Tamilnadu, India

²Pharm D Intern, Department of pharmacy practice, Swamy Vivekanandha college of pharmacy, Elayampalayam, Tiruchengode, Namakkal District, Tamilnadu, India

A Case Series on Ceftriaxone-Induced Haemolytic Anaemia" by Dr. R. Subashini, Angelin Grace T, Kaushika S, and Ann Jency A highlight rare cases of haemolytic anaemia triggered by ceftriaxone in elderly patients. The report emphasizes the importance of early recognition, prompt drug discontinuation, and supportive care to prevent complications. It underscores clinician vigilance and monitoring as key strategies for ensuring patient safety during ceftriaxone therapy.

"REVIEW ON ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING IN PHARMACOVIGILANCE"

S. ANJALA^{1*}, M. AMMULU, L. ATCHAYA¹, L. PRAVEEN¹, R. SUBASHINI², S. ANJALA, M. AMMULU, L. ATCHAYA, L. PRAVEEN

Department of Pharmacy practice

¹ PG students: Department of Pharmacy practice

²Head of the department, pharmacy practice

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Affiliated: The Tamilnadu Dr.M.G.R. Medical university Chennai

"Review on Artificial Intelligence and Machine Learning in Pharmacovigilance" by S. Anjala, M. Ammulu, L. Atchaya, L. Praveen, and R. Subashini highlights the transformative role of AI and ML in improving pharmacovigilance efficiency, enabling early safety signal detection, predictive risk assessment, and automation of routine processes. The review also addresses challenges such as data quality, model transparency, ethical concerns, and regulatory hurdles, emphasizing the need to resolve these issues for effective integration into global drug safety systems.

Review of the Relationship between the Gut Microbiome and Obesity-Associated Osteoarthritis" by A. Prathap, K. Lakshmi Prabha, N.J. Harshaveena, P. Gokula Priya, M. Subhalakshmi, and M. Prithiga highlights the role of obesity-related gut dysbiosis in promoting inflammation and joint damage in osteoarthritis. The review discusses how microbial metabolites influence immune activation and OA progression. It also points to microbiome-targeted strategies such as diet, probiotics, and exercise as potential therapeutic approaches, while emphasizing the need for further human evidence

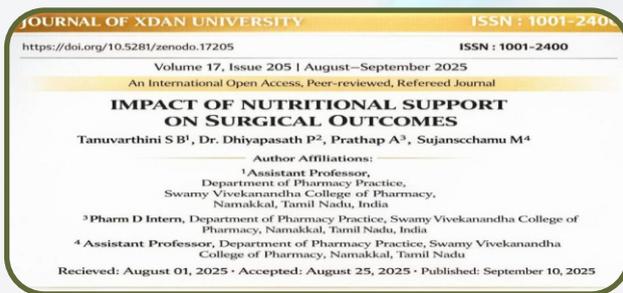
INTERNATIONAL JOURNAL OF CURRENT SCIENCE (IJCS PUB)
An International Open Access, Peer-reviewed, Refereed Journal

REVIEW OF THE RELATIONSHIP BETWEEN THE GUT MICROBIOME AND OBESITY-ASSOCIATED OSTEOARTHRITIS

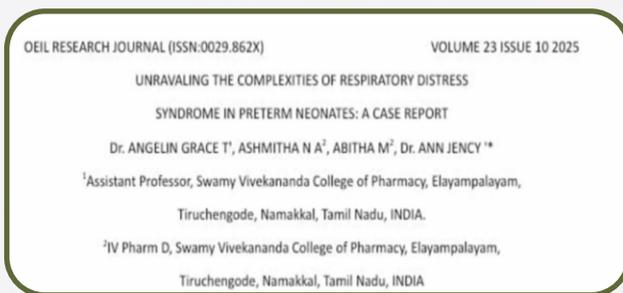
A.PRATHAP^{1*}, K.LAKSHMI PRABHA², N.J.HARSHAVEENA¹, P.GOKULA PRIYA¹, M.SUBHALAKSHMI¹, M.PRITHIGA²

Corresponding author^{1*}: Assistant professor, Department of Pharmacy Practice, Swamy Vivekananda College of Pharmacy, Namakkal, and TamilNadu

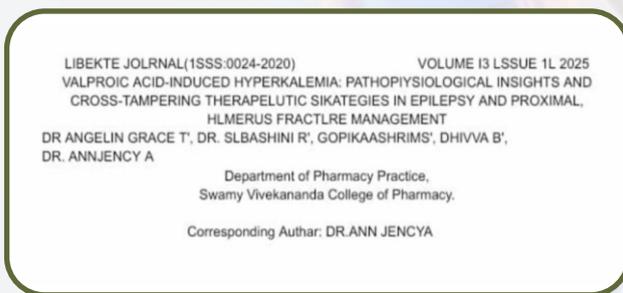
^{1,2} Pharm.D interns, Swamy Vivekananda College of Pharmacy, Namakkal, TamilNadu



"Impact of Nutritional Support on Surgical Outcomes" by **Dhivyaprasath P, Tanuvarthini SB, Prathap A, and Sujan Sharma M** highlights malnutrition as a common and critical risk factor in surgical patients, adversely affecting recovery and clinical outcomes. The review emphasizes early nutritional assessment and individualized perioperative nutritional support, particularly enteral nutrition, as key strategies to reduce complications, hospital stay, and mortality.



"Unraveling the Complexities of Respiratory Distress Syndrome in Preterm Neonates: A Case Report" by **Dr. Angelin Grace T, Ashmitha N A, Abitha M, and Dr. Ann Jency A** highlights the successful management of a preterm neonate with mild RDS complicated by hyperbilirubinemia and Pseudomonas aeruginosa sepsis. The report emphasizes early respiratory support, culture-guided antibiotic therapy, and multidisciplinary NICU care as key factors in improving neonatal outcome.



"Valproic Acid-Induced Hyperkalemia: Pathophysiological Insights and Cross-Tampering Therapeutic Strategies in Epilepsy and Proximal Humerus Fracture Management" by **Dr. Angelin Grace T, Dr. Subashini R, Gopikaa Shri M S, Dhivya B, and Dr. Ann Jency A** reports a rare case of hyperkalemia in an elderly patient receiving sodium valproate therapy. The article highlights the importance of close electrolyte monitoring, timely drug discontinuation with therapeutic substitution, and appropriate management to prevent cardiotoxicity. It underscores the critical role of clinical evaluation and pharmacovigilance in optimizing patient safety during anticonvulsant therapy.



"Clinical Pharmacist Insights into Postpartum Hypertension Following LSCS: Unmasking Pharmacological Triggers and Clinical Complexities" by **Dr. Gayathri P, Dr. Ann Jency A, Dr. Angelin Grace T, Dr. Aswini Suresh, and Dr. Anson Sam** highlights postpartum hypertension as a significant complication following LSCS, often triggered by medications, fluid overload, or abrupt therapy changes. The report emphasizes the pivotal role of clinical pharmacists in identifying drug-induced causes, optimizing antihypertensive management, and collaborating with the obstetric team to improve patient safety and clinical outcomes.

"Case Series and Literature Review: Osteoarthritis Following Total Knee Replacement" by Dr. S. Sathya Moorthi, A. Prathap, T. Manisha, R. Mounisha, R. Preethi, N. Preethika, and S. Priyadharshini highlights total knee replacement as a safe and effective intervention for elderly patients with advanced knee osteoarthritis, even in the presence of comorbidities. The case series emphasizes stable implant outcomes, individualized rehabilitation, and early mobilization, demonstrating favorable short-term recovery. It underscores the need for careful preoperative planning and longer-term studies to optimize postoperative rehabilitation strategies.



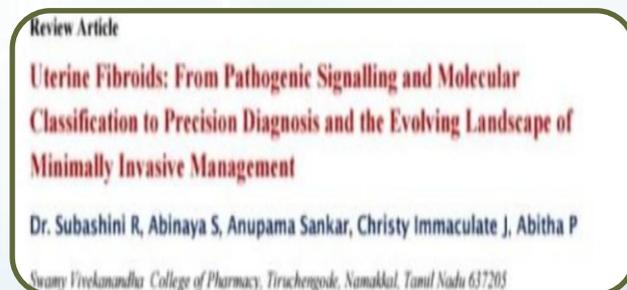
Optimizing Antimicrobial Therapy in E. coli-Induced UTI with Acute Kidney Injury: Impact of Pharmacist-Led Dose Adjustment and Pharmacovigilance" by Dr. R. Subashini, Anupama Sankar, Christy Immaculate J., Abitha P., and Abinaya S. highlights the important role of clinical pharmacists in managing a patient with E. coli-induced UTI complicated by acute kidney injury. It emphasizes appropriate antimicrobial dose adjustment based on renal function, monitoring of adverse drug reactions, and the role of pharmacovigilance in improving patient safety and clinical outcomes.



Zilebesiran: A Paradigm Shift in Hypertension Management Through Biannual RNA Interference Therapy – A Literature Review by SP Santhosh Kumar, C. Vaishnavidevi, Anupama Sankar, S. Abinaya, P. Abitha, and J. Christy Immaculate reviews the role of zilebesiran, a novel siRNA therapy targeting hepatic angiotensinogen. The article highlights its long-acting blood pressure-lowering effect with infrequent dosing, offering a solution to poor medication adherence. It also discusses pharmacological mechanisms, clinical trial outcomes, and the potential impact on future hypertension management.



Uterine Fibroids: From Pathogenic Signalling and Molecular Classification to Precision Diagnosis and the Evolving Landscape of Minimally Invasive Management" by Dr. Subashini R., Abinaya S., Anupama Sankar, Christy Immaculate J., and Abitha P. provides a comprehensive review of uterine fibroids, the most common benign tumors affecting women of reproductive age. It discusses the underlying molecular and pathogenic mechanisms, advances in diagnostic imaging and classification, and evolving minimally invasive and fertility-preserving treatment strategies for personalized patient care.



Asian Journal of Medical Principles and Clinical Practice
 Volume 8, Issue 2, Page 1162-1171, 2025; Article no. AJMPCP.149733

Progress in RSV Vaccination: Evaluating Developments, Recognizing Opportunities, and Examining Pharmacists' Functions

Redlin Jani R.R.^{1*}, Christy Immaculate J.², Abitha P.³, Anupama Sankar⁴, Abinaya S.⁵

Progress in RSV Vaccination: Evaluating Developments, Recognizing Opportunities, and Examining Pharmacists' Functions" by Redlin Jani R.R., Christy Immaculate J., Abitha P., Anupama Sankar, and Abinaya S. reviews recent advancements in respiratory syncytial virus (RSV) vaccination. It discusses emerging vaccine technologies, monoclonal antibodies, and the expanding role of pharmacists in immunization, patient education, and public health initiatives to improve RSV prevention and outcomes.

Review Article

Integrating Multi-Biomarker Panels and Emerging Technologies in A Systematic Meta Analysis of Biomarkers for Early Sepsis Detection, Prognosis and Therapeutic Monitoring in Critically Ill Patients

Dr. Subashini R¹, Grace S, Janani B S, Jayashree T, Gayathri M

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Integrating Multi-Biomarker Panels and Emerging Technologies in a Systematic Meta-Analysis of Biomarkers for Early Sepsis Detection, Prognosis, and Therapeutic Monitoring in Critically Ill Patients by Dr. Subashini R., Grace S., Janani B. S., Jayashree T., and Gayathri M. reviews the role of integrated multi-biomarker panels in improving early diagnosis and prognosis of sepsis. The article highlights the combination of inflammatory, immunological, coagulation, and metabolic biomarkers with advanced analytics and AI models. It emphasizes their potential in early risk stratification, treatment monitoring, and improved outcomes in critically ill patients.

Comparison Of Ketamine Vs Fentanyl for Rapid Analgesia in Acute Trauma Patients in the Emergency Department

Dr. R. R. Redlin Jani^{1*}, M. Kanishghasree², S. Jayavathi², G. Krupadevi², E. Lavanya², P. Lakshaya²

^{1*}Assistant Professor, Department of Pharmacy Practice, Swamy Vivekanandha College of Pharmacy, India.
²Department of Pharmacy Practice, Swamy Vivekanandha College of Pharmacy, India.
drjanir29@gmail.com

Comparison of Ketamine vs Fentanyl for Rapid Analgesia in Acute Trauma Patients in the Emergency Department" by Dr. R. R. Redlin Jani, M. Kanishghasree, S. Jayavathi, G. Krupadevi, E. Lavanya, and P. Lakshaya evaluates the effectiveness and safety of ketamine compared with fentanyl for rapid pain control in trauma patients. The article highlights that both agents provide comparable and rapid analgesia within 30–60 minutes. Ketamine demonstrates advantages in maintaining respiratory drive and hemodynamic stability, while fentanyl offers potent, titratable analgesia. The authors conclude that analgesic choice should be individualized based on patient condition and clinical context.

Journal of Xidian University <https://doi.org/10.5281/zenodo.17863316> ISSN No:1001-2400

BLOOD EOSINOPHILS AS A MARKER OF RESPONSE TO INHALED CORTICOSTEROIDS IN COPD

Dr. S. Arthanareeswaran¹, Dr. R. Subashini^{2*}, E. Lavanya², S. Jayavathi², M. Kanishghasree², G. Krupadevi², P. Lakshaya²

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Blood Eosinophils as a Marker of Response to Inhaled Corticosteroids in COPD" by Dr. S. Arthanareeswaran, Dr. R. Subashini, E. Lavanya, S. Jayavathi, M. Kanishghasree, G. Krupadevi, and P. Lakshaya examines the role of blood eosinophil count as a biomarker for guiding inhaled corticosteroid therapy in COPD. The article explains how eosinophil levels help predict treatment response and risk of exacerbations. It highlights evidence from clinical trials supporting eosinophil-guided escalation or de-escalation of therapy. The authors emphasize personalized treatment strategies to improve outcomes and reduce overtreatment in COPD patients.

Impact of BMI and Lifestyle on Early Knee Pain or Patellofemoral Syndrome in College Students" by Dr. S. Sathyamoorthi, Mr. A. Prathap, S. Jayavathi, M. Kanishghasree, G. Krupadevi, P. Lakshaya, and E. Lavanya explores the relationship between body mass index, lifestyle habits, and early onset knee pain among college students. The article highlights how high BMI, sedentary behavior, poor posture, and inadequate physical activity contribute to patellofemoral pain syndrome. It emphasizes the role of balanced nutrition, regular exercise, and physiotherapy in reducing pain and improving knee stability. The authors conclude that early screening and lifestyle modification are essential to prevent chronic knee problems in young adults.

Impact of BMI and Lifestyle on Early Knee Pain or Patellofemoral Syndrome in College Students

Dr. S. Sathyamoorthi¹, Mr. A. Prathap², S. Jayavathi², M. Kanishghasree², G. Krupadevi², P. Lakshaya² and E. Lavanya²

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Pregnancy and Metabolic Syndrome: Emerging Risk Factors and Long-Term Consequences" by Dr. R. Subashini, P. Lakshaya, E. Lavanya, S. Jayavathi, M. Kanishghasree, and G. Krupadevi discusses pregnancy as a critical metabolic stress period that can reveal or worsen underlying cardiometabolic risk. The article explains how insulin resistance and dyslipidemia during pregnancy contribute to gestational diabetes and hypertensive disorders. It highlights the long-term risks of type 2 diabetes and cardiovascular disease for mothers and metabolic disorders in offspring. The authors emphasize early risk assessment and lifestyle interventions to reduce intergenerational cardiometabolic burden.

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PREGNANCY AND METABOLIC SYNDROME: EMERGING RISK FACTORS AND LONG-TERM CONSEQUENCES

Dr. R. Subashini¹, P. Lakshaya², E. Lavanya², S. Jayavathi², M. Kanishghasree², G. Krupadevi²

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A Contemporary Review of Colchicine in Cardio-protection: Mechanisms to Clinical Practice" by Dr. S.P. Santhosh Kumar, Dr. C. Vaishnavi Devi, G. Krupadevi, and E. Lavanya provides an updated overview of colchicine as an emerging anti-inflammatory therapy in cardiovascular disease. The article explains its mechanisms, including inhibition of neutrophil activity and NLRP3 inflammasome signaling, leading to plaque stabilization. It reviews clinical trial evidence supporting low-dose colchicine in reducing recurrent ischemic events. The authors emphasize appropriate patient selection, dosing, and safety considerations for effective clinical use.

A Contemporary Review of Colchicine in Cardio-protection: Mechanisms to Clinical Practice

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Antithrombotic Therapy after PCI: Short DAPT and P2Y12 Monotherapy in the Modern DES Era" by Dr. S. P. Santosh Kumar, C. Vaishnavi Devi, N. Preethika, S. Priyadharshini, T. Manisha, R. Mounisha, and R. Preethi reviews contemporary antiplatelet strategies following percutaneous coronary intervention. The article discusses advances in drug-eluting stent technology that allow shorter durations of dual antiplatelet therapy. It summarizes evidence from major trials supporting early transition to P2Y12 inhibitor monotherapy to reduce bleeding risk. The authors emphasize individualized, risk-guided antithrombotic therapy in modern PCI practice.

ANTITHROMBOTIC THERAPY AFTER PCI: SHORT DAPT AND P2Y12 MONOTHERAPY IN THE MODERN DES ERA

Dr. S. P. Santosh Kumar¹, C. Vaishnavi Devi², N. Preethika², S. Priyadharshini², T. Manisha², R. Mounisha², R. Preethi²

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Dual GIP/GLP-1 Receptor Agonism in Diabetes and Obesity: A Review of Tirzepatide's Efficacy and Safety" by Dr. S. Arthanareeswaran, Dr. R. Subashini, R. Mounisha, R. Preethi, N. Preethika, S. Priyadharshini, and T. Manisha reviews the therapeutic role of tirzepatide in managing type 2 diabetes and obesity. The article explains its dual incretin mechanism that improves glycaemic control, promotes significant weight loss, and enhances metabolic outcomes. It summarizes evidence from major clinical trials demonstrating substantial HbA1c reduction and cardiometabolic benefits. The authors conclude that tirzepatide is a promising and well-tolerated option for comprehensive metabolic disease management.

A Case Series on Diverse Toxic Ingestions and Emergency Management Outcomes in a Tertiary Care Hospital by Dr. Redlin Jani R.R., R. Preethi, N. Preethika, S. Priyadharshini, T. Manisha, and R. Mounisha presents a series of clinical cases involving various acute toxic ingestions managed in an emergency care setting. The article highlights common poisoning patterns, clinical presentations, and prompt management strategies adopted in a tertiary care hospital. It emphasizes the crucial role of early diagnosis, timely intervention, and multidisciplinary care in improving patient outcomes and reducing morbidity and mortality associated with toxic exposures.

A Rare Prenatal Diagnosis of Sacral Myelomeningocele in a High-Risk Multigravida: A Clinical Case Review by Dr. R. Subashini, S. Priyadharshini, T. Manisha, R. Mounisha, R. Preethi, and N. Preethika presents a rare case of early prenatal detection of sacral myelomeningocele in a high-risk pregnancy. The report highlights the role of detailed ultrasonography in identifying neural tube defects and the influence of maternal risk factors such as diabetes, hypertension, and inadequate folic acid intake. It emphasizes the importance of early screening, timely clinical decision-making, and optimized antenatal care in improving maternal–fetal outcomes.

Type 2 Cardiorenal Syndrome in an Elderly Male with Ischemic Cardiomyopathy: A Clinical Case Report by Dr. C. Vaishnavi Devi, Dr. S. P. Santhosh Kumar, Y. Sneha, C. Shifa Sidhiq Fatima, C. Rifa Sidhik Fathima, V. Sandhiya, and B. Rashmi Avanticaa describes the complex interaction between cardiac and renal dysfunction in an elderly patient. The case highlights ischemic cardiomyopathy complicated by type 2 cardiorenal syndrome with reduced eGFR and multiple comorbidities. It emphasizes the importance of early diagnosis, multidisciplinary management, and optimized pharmacotherapy to improve clinical outcomes.

Review Article

Dual GIP/GLP-1 Receptor Agonism in Diabetes and Obesity: A Review of Tirzepatide's Efficacy and Safety

Dr. S. Arthanareeswaran, Dr. R. Subashini¹, R. Mounisha, R. Preethi, N. Preethika, S. Priyadharshini, T. Manisha

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A CASE SERIES ON DIVERSE TOXIC INGESTIONS AND EMERGENCY MANAGEMENT OUTCOMES IN A TERTIARY CARE HOSPITAL

Dr. Redlin Jani. R. R.^{1*}, R. Preethi², N. Preethika², S. Priyadharshini², T. Manisha², R. Mounisha²,

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Case Study

A Rare Prenatal Diagnosis of Sacral Myelomeningocele in a High-Risk Multigravida: A Clinical Case Review

Dr. R. Subashini¹, S. Priyadharshini, T. Manisha, R. Mounisha, R. Preethi, N. Preethika

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Type 2 Cardiorenal Syndrome in an Elderly Male with Ischemic Cardiomyopathy: A Clinical Case Report

Dr. C. Vaishnavi Devi^{1*}, Dr. S.P. Santhosh Kumar², Y. Sneha³, C. Shifa Sidhiq Fatima⁴, C. Rifa Sidhik Fathima⁵, V. Sandhiya⁶ and B. Rashmi Avanticaa⁷

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Review Article

Naegleria Fowleri And Primary Amoebic Meningoencephalitis: Emerging Threats in A Warming World

R. Subashini¹, S. Arthanareeswaran, V. Sandhiya, C. Shifa Sidhiq Fatima, Y. Sneha, B. Rashmi Avanticaa, C. Rifa Sidhik Fathima

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Naegleria fowleri and Primary Amoebic - Meningoencephalitis: Emerging Threats in a Warming World by R. Subashini, S. Arthanareeswaran, V. Sandhiya, C. Shifa Sidhiq Fatima, Y. Sneha, B. Rashmi Avanticaa, and C. Rifa Sidhik Fathima presents a comprehensive review of a rare but highly fatal central nervous system infection caused by Naegleria fowleri. The article discusses its association with warm freshwater exposure, climate change, and expanding geographic distribution. It emphasizes diagnostic challenges, urgent multidrug therapy, and the critical role of public health measures and clinical pharmacists in reducing mortality.

Review Article

Integrating High-Sensitivity Troponin and Artificial Intelligence for Rapid Myocardial Infarction Detection: A Clinical Review

Dr. Redlin Jani R.R.¹, C. Rifa Sidhik Fathima, V. Sandhiya, C. Shifa Sidhiq Fatima, Y. Sneha, B. Rashmi Avanticaa

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Integrating High-Sensitivity Troponin and Artificial Intelligence for Rapid Myocardial Infarction Detection: A Clinical Review by Dr. Redlin Jani R.R., C. Rifa Sidhik Fathima, V. Sandhiya, C. Shifa Sidhiq Fatima, Y. Sneha, and B. Rashmi Avanticaa presents a clinical review on the role of high-sensitivity cardiac troponin and artificial intelligence in the early detection of myocardial infarction. The article highlights how AI-driven analysis of troponin trends, ECG data, and clinical parameters enhances diagnostic accuracy and speeds clinical decision-making. It emphasizes the potential of hs-cTn-AI integration to reduce emergency department burden, enable timely reperfusion therapy, and improve patient outcomes.

STRESS HYPERGLYCEMIA AS A METABOLIC SIGNATURE OF TRAUMA IN THE OBESE ADOLESCENT: A CASE REPORT ON HUMERAL SHAFT FRACTURE MANAGED BY ORIF

A. Prathap¹, Dr. S. Sathyamoorthi², C. Shifa Sidhiq Fatima³, Y. Sneha⁴, B. Rashmi Avanticaa⁵, C. Rifa Sidhik Fathima⁶ and V. Sandhiya⁷

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Stress Hyperglycemia as a Metabolic Signature of Trauma in the Obese Adolescent: A Case Report on Humeral Shaft Fracture Managed by ORIF by A. Prathap, Dr. S. Sathyamoorthi, C. Shifa Sidhiq Fatima, Y. Sneha, B. Rashmi Avanticaa, C. Rifa Sidhik Fathima, and V. Sandhiya presents a clinical case of stress-induced hyperglycemia following traumatic injury in an obese adolescent. The report highlights the association between trauma, transient hyperglycemia, and metabolic risk in a previously non-diabetic patient. It emphasizes the importance of early metabolic monitoring and multidisciplinary management to prevent postoperative complications and ensure optimal recovery.

LEIOMYOMA-ASSOCIATED ABNORMAL UTERINE BLEEDING: A CASE SERIES HIGHLIGHTING SURGICAL OUTCOMES AND PHARMACIST-LED INTERVENTIONS

Dr. R. Subashini¹, Susmitha S², Swasamathi S², Theja Sree S², Vidhya Sri S², Sri Vaishnavi P²

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Leiomyoma-Associated Abnormal Uterine Bleeding: A Case Series Highlighting Surgical Outcomes and Pharmacist-Led Interventions by Dr. R. Subashini, Susmitha S., Swasamathi S., Theja Sree S., Vidhya Sri S., and Sri Vaishnavi P. presents a case series focusing on abnormal uterine bleeding associated with uterine leiomyomas. The article highlights clinical presentation, surgical management outcomes, and the supportive role of pharmacists in optimizing therapy and patient care. It emphasizes the importance of multidisciplinary collaboration in improving treatment outcomes and quality of life for affected women.

Role of Indocyanine Green Fluorescence in Enhancing Surgical Margin by Dr. P. Dhivyaprasath, Sri Vaishnavi P., Sushmitha S., Swasamathi S., Theja Sree S., and Vidhya Sri S. presents a review of the clinical application of indocyanine green fluorescence in surgical procedures. The article highlights how fluorescence-guided imaging improves intraoperative visualization, aids in precise margin identification, and reduces the risk of incomplete tumor resection. It emphasizes the value of this technique in enhancing surgical accuracy, patient safety, and postoperative outcomes.

Reviews on New Pharmacological Interventions for Redefining COPD Management by R. Subashini, Vidhya Sri S., Sri Vaishnavi P., Sushmitha S., Swasamathi S., and Theja Sree S. presents a comprehensive review of emerging drug therapies aimed at improving the management of chronic obstructive pulmonary disease. The article discusses limitations of conventional inhaled treatments and highlights novel pharmacological approaches, including dual-function bronchodilators, anti-inflammatory agents, and precision-based therapies. It emphasizes the shift toward personalized COPD management to improve long-term outcomes and slow disease progression.

The Hidden Role of Vitamin K2 in Bone Pharmacology: an Orthopaedic Perspective by Sathyamoorthy, Prathap A., Swasamathi, Thejasree S., Vidhya sri, Sri Vaishnavi, and Sushmitha S. presents a review highlighting the emerging importance of vitamin K2 in bone health and orthopaedic care. The article discusses its role in calcium regulation, bone mineralization, and fracture prevention beyond conventional osteoporosis management. It emphasizes the potential of vitamin K2 as an adjunct in orthopaedic pharmacotherapy to improve skeletal outcomes and long-term bone strength.

Emerging Antidotes and Reversal Agents in Emergency Toxicology: Recent Advances and Clinical Relevance by Anushya, R. R. Redlin Jani, Sri Vaishnavi P., Sushmitha S., Swasamathi S., Thejasree S., and Vidhya sri S. presents a comprehensive review of recent developments in antidotal therapy for acute poisoning and drug overdose. The article highlights novel and established antidotes, their mechanisms of action, and evolving clinical applications in emergency settings. It emphasizes the importance of timely antidote use and advances in toxicology to improve patient survival and outcomes in emergency care.

Hypertensive Emergencies: Updated Pharmacological Approaches in Acute Care by S. P. Santhoshkumar, C. Vaishnavi Devi, Thejasree S., Vidhya Sri S., Sri Vaishnavi P., Susmitha S., and Swasamathi S. is a review article that focuses on the timely recognition and management of hypertensive emergencies in acute care settings. It outlines the pathophysiology, clinical presentation, and updated pharmacological interventions aimed at rapid yet safe blood pressure reduction to prevent target organ damage and improve patient outcomes.



Role of Indocyanine Green Fluorescence in Enhancing Surgical Margin

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Review Article

Reviews on New Pharmacological Interventions for Redefining COPD Management

R Subashini^{*}, Vidhya Sri S, Sri Vaishnavi P, Sushmitha S, Swasamathi S, Theja Sree S

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The Hidden Role of Vitamin K2 in Bone Pharmacology: an Orthopaedic Perspective

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Emerging Antidotes and Reversal Agents in Emergency Toxicology: Recent Advances and Clinical Relevance

Anushya, R. R. Redlin Jani^{*}, Sri Vaishnavi P, Susmitha S, Swasamathi S, Thejasree S, Vidhyasri S

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Hypertensive Emergencies: Updated Pharmacological Approaches in Acute Care

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