



A Newsletter on
CLINICAL PHARMA PRACTICE
 An Update on Clinical Research and Drug Information



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PHYSICIAN DESK - CASE DISCUSSION ON CONTRAST - INDUCED AKI



Dr. S.P. SANTHOSH KUMAR,
 MD, (GEN MED), DNB (CARDIO),
 Consultant Interventional Cardiologist

Vivekanandha Medical Care Hospital, Tiruchengode.

A 58 year old male patient came with sudden onset of sweating, and chest pain radiating to the left arm & diagnosed with Acute STEIWM I R VMI with mild LV dysfunction & Severe RV dysfunction. He had a past history of DM & Peripheral arterial disease with poor drug compliance.

He underwent an emergency coronary angiogram which showed 100% occlusion of the Right coronary artery & Primary PTCA to RCA was done with 2 Drug-eluting stents. The following table shows the trend of his renal parameters during his admission.

Renal parameters	Day-1	Day-2	Day-3	Normal range
Blood Urea	33 mg/dl	62 mg/dl	93 mg/dl	19-43 mg/dl
Creatinine	0.8 mg/dl	2.3 mg/dl	3.8 mg/dl	0.6-1.2mg/dl

He was diagnosed with CI-AKI i.e. Contrast-induced Acute Kidney injury and was started on intravenous 0.9% normal saline and N-Acetylcysteine infusions.

Discussion

CI-AKI refers to AKI occurring shortly after administration of iodinated contrast which may or may not be directly caused by the contrast material. Pathogenesis is possibly due to Acute tubular necrosis [ATN] caused by renal vasoconstriction or direct cytotoxic effects of contrast agents on renal tubular cells.

A clinical diagnosis of CI-AKI is made based on the characteristic rise in serum creatinine beginning within the first 24 to 48 hours after contrast exposure. Management is supported with adequate hydration and avoidance or dose reduction of potentially nephrotoxic agents like ACEI/ARB and Diuretics.

In the majority of the cases, the renal function starts to improve within 3 to 7 days of contrast exposure and returns to normal by 3 weeks. Less than 1% of patients require dialysis on short-term or long-term.

DRUG SAFETY ALERTS IDENTIFIED AND ISSUED BY PVPI

S.No	Issuing Date	Suspected Drugs	Indication(S)	Adverse Drug Reaction
1.	26.09.2022	Piroxicam	Indicated in the treatment of rheumatoid arthritis, ankylosing spondylitis and other musculoskeletal disorders.	Fixed Drug Eruption
2.	17.10.2022	Amoxicillin	Urinary Tract Infections, Upper respiratory tract infection, bronchitis, pneumonia, otitis media.	Fixed Drug Eruption
3.	29.11.2022	Norfloxacin	Chronic recurrent urinary tract infections, pyelonephritis, cystitis, urethritis, and gonococcal infections.	Skin Hyperpigmentation
4.	26.12.2022	Minoxidil	Alopecia	Folliculitis.

VIVEKANANDHA MEDICAL CARE HOSPITAL – ADR MONITORING CENTRE

DEPARTMENT ACTIVITIES

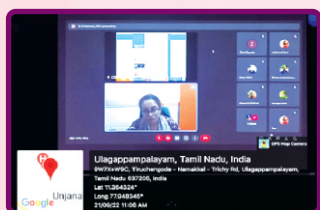
STUDENTS PARTICIPATION IN CONFERENCE

Ms. KIMIA AGHASI, Pharm D Intern,
Mrs. DEVIKA S, Ms. KANAKA K Mr. PRADEEP P
 of I - M. Pharm participated and presented a poster
 at APTICON-2022 on 2nd - 4th of September 2022
 organized by APTI at JSS-Mysore.



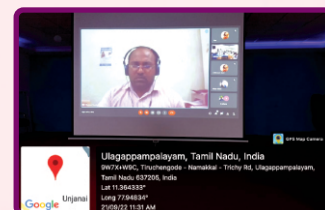
NATIONAL PHARMACOVIGILANCE WEEK CELEBRATION

SYMPOSIUM



Date : 21.09.2022
Topic : Role of Health Care Professionals in Sensitizing ADR Reporting by Patients
Speaker : **Dr. M KALAIVANI**
 Senior Scientific Officer, Indian Pharmacopoeia Commission.

Date : 21.09.2022
Topic : Pharmacovigilance - Key to Drug to Safety
Speaker : **Dr. D. SATHISH KUMAR**
 Drug Safety Associate, Kurnool Medical College and Hospital,
 Andhra Pradesh



Workshop Cum Hands-on Training on ADR Reporting and Monitoring for
 Health Care Professionals given by
Dr. M. DHARINI BOOPATHI,
 Senior Pharmacovigilance Associate, at Indian Pharmacopoeia Commission,
 on 24th September 2022.

CAMPUS DRIVE

❖ Ms. STEPHY MARY KOSHY ❖ Ms. ANJANA A G
❖ Ms. SHARON MARIA ❖ Ms. RAMYA V

Pharm.D Interns selected on Campus Drive conducted by Saturo Global Research Services, Chennai at SVCP.



STUDENTS AWARDS AND ACHIEVEMENTS

- ❖ Pharm.D students won 1st prize in State level Inter-College cultural Meet “PHARMA EXCELITE 1.0” held from 8th - 10th December 2022 at Excel College of Pharmacy, Komarapalayam.
- ❖ Ms. Asma Fathumuthu A, II- M.Pharm won 2nd prize in E-Poster presentation on the topic of “Clinical characteristics, comorbidities and their impact on COVID-19 patients admitted in a South Indian hospital” on 14 Oct 2022 at JSS College of Pharmacy, Ooty.
- ❖ Ms. Redlin Jani R.R of V- Pharm. D presented case on ADR during National Pharmacovigilance Week celebrated by SVCP on 22nd September 2022. She awarded with second prize Rs. 2000/-
- ❖ Ms. Asma Fathumuthu A of II- M. Pharm received 1st prize and Ms. Angaleswari M of V- Pharm. D received 2nd prize in E- poster presentation during National Pharmacovigilance Week celebrated by SVCP on 19th September 2022.
- ❖ Ms. Christy Immaculate J received 1st prize and Ms. Krupadevi. G received 2nd prize of II- Pharm. D on Essay writing; Ms. Sindhuja S received 1st prize and Ms. Lekshmi S of IV- Pharm. D received 2nd prize in the elocution competition during National Pharmacovigilance Week celebrated by SVCP on 19th September 2022.



INDUSTRIAL VISIT

I - Pharm D and II-Pharm. D students visited the **Pasteur Institute of India, Coonor.** on 16th September, one of the leading institutes in producing Anti rabies vaccine and DPT group of vaccines.



OUTREACH ACTIVITIES

WORLD PHARMACIST DAY

V – Pharm. D students, in association with ISPOR – SVCP Student Chapter observed World Pharmacist Day with the theme of Pharmacy United in Action for a Healthier World on 27th September 2022.



WORLD DIABETES DAY

Pharm. D Interns and M.Pharm students organized a diabetic and medication awareness camp, at Kilapalayam on 14th November 2022. Interns screened the general public for Height, weight, blood pressure, random blood sugar, SpO2 & Calculated BMI, provided diabetic counselling and pamphlets were distributed.



WORLD AIDS DAY

To raise public awareness of HIV and AIDS, I-Pharm. D. and V-Pharm. D. students observed World AIDS Day at Namakkal Government Hospital in association with the District AIDS Control Office Namakkal on December 1, 2022.



NATIONAL POLLUTION PREVENTION DAY

IV- Pharm. D students observed National pollution and prevention day at T. Kailasampalayam Elementary School on 19th December 2022. Created awareness among school children and conducted games for them.

PUBLICATIONS

- ❖ Sharmila Nirojini P, Durga V, Dahlia Dixcy S, Bharathi J, Anjana A.G. Dengue Shock Syndrome. Indian Journal of Pharmacy Practice. 2022; 15(4) : 318 - 320.
- ❖ Nithyakala P, Stephy Mary Koshy, ZumZum S, Sharon Maria, Sivadharsha M. An overview on Benign Prostate Hyperplasia and Its Surgical Approach. Journal of Hospital Pharmacy. 2022; 17(4):1-7.
- ❖ Nithya R, Kalpitha Mrinali V.B, Kowsalya V, Krithika K. Hemovigilance: A need in health care. International Journal of Current Science. 2022; 12(4): 653-662.
- ❖ Vaishnavi Devi C, Sinta Varghese, Sneha Anna Kunjumon, Swetha D, A Review on Complications of Non-Steroidal Anti-Inflammatory Drugs in Geriatric Patients at a Tertiary Care Hospital. International Journal for Research Trends and Innovation. 2022; 7(11):176-180.
- ❖ Malarvizhi P, Anusree, Archana K. S, Aswini S Binu. An Insight to Intravenous Drug Incompatibilities for better patient care. International Journal for Research Trends and Innovation. 2022; 7(10):489-491.
- ❖ Shangavi V, Hamsavarthini. S, Indhu Malini. N, Divya Bharathi. M. A Review of an Emerging Modern Technology for Monitoring Medication Adherence. International Journal of Pharmaceutical Research and Applications. 2022; 7(6): 370-383.



Please send your suggestions to The Chief Editor
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Book Post

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