



|| Jai Sri Gurudev ||

CLINICAL NEWS PHARMACY LETTER



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DRUG INFOS- ONLINE DRUG INFORMATION CENTER EXT.NO.2115. docpinfo@gmail.com

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Sri Adichunchanagiri College of Pharmacy is the premier educational institution in Pharmaceutical Sciences. The institution is under the aegis of Sri Adichunchanagiri Shikshana Trust, under the leadership of Sri Sri Sri Nirmalanandanatha Mahaswamiji, President, SAST(R). Now the institution is offering; D.Pharm, B.Pharm, M.Pharm, Pharm D, Pharm D (Post Baccalaureate) and Ph.d, courses, approved by AICTE, PCI & Affiliated to RGUHS Bangalore.

NEW DRUG PROFILE

Ceftazidime-Avibactam Injection

INDICATIONS AND USAGE:

Ceftazidime-Avibactam is indicated for the treatment of complicated Urinary Tract Infections (cUTI) including pyelonephritis caused by the susceptible microorganisms viz. *Escherichia coli*, *Klebsiella pneumoniae*, *Citrobacter koseri*, *Enterobacter aerogenes*, *Enterobacter cloacae*, *Citrobacter freundii*, *Proteus spp.*, and *Pseudomonas aeruginosa* in patients 18 years or older.

Ceftazidime-avibactam, in combination with metronidazole, is indicated for the treatment of complicated intra-abdominal infections (cIAI) caused by the susceptible microorganisms viz *Escherichia coli*, *Klebsiella pneumoniae*, *Proteus mirabilis*, *Providencia stuartii*, *Enterobacter cloacae*, *Klebsiella oxytoca*, and *Pseudomonas aeruginosa* in patients 18 years or older.

Usage to reduce the development of drug-resistant bacteria and maintain the effectiveness of **ceftazidime-avibactam** and other antibacterial drugs, **ceftazidime-avibactam** should be used only to treat infections that are proven or strongly suspected to be caused by susceptible bacteria.

DOSING/ADMINISTRATION

It is available in powder for reconstitution for i.v administration (0.5g/2g)/vial

Adult Dosing

Complicated Urinary Tract Infection, including pyelonephritis

- ◆ 2.5 g (ceftazidime 2 g and avibactam 0.5 g) infused over 2 hours IV every 8 hours for 7 to 14 days.

Infectious disease of abdomen, Complicated, in combination with metronidazole

- ◆ 2.5 g (ceftazidime 2 g and avibactam 0.5 g) infused over 2 hours IV every 8 hours for 5 to 14 days. Give in combination with metronidazole.

MECHANISM OF ACTION

Ceftazidime, a semisynthetic cephalosporin and avibactam, a beta-lactamase inhibitor. It exerts bacteriocidal activity when ceftazidime binds to essential penicillin-binding proteins. Avibactam protects ceftazidime from degradation by inactivating beta lactamases. It allow the ceftazidime concentration to exceed the minimum inhibitory concentration of susceptible microorganisms. Like other beta-lactam agents, ceftazidime has demonstrated time dependent antibacterial efficacy.

**We Acknowledge, the Doctors of
Adichunchanagiri Hospital and Research Centre for their constant support**

ADVERSE EFFECTS

Common

- ◆ **Gastrointestinal:** Constipation (4% to 10%), Nausea (2% to 10%), Vomiting (14%)
- ◆ **Psychiatric:** Anxiety (5% to 10%)

Serious

- ◆ **Gastrointestinal:** Clostridium difficile diarrhea
- ◆ **Immunologic:** Hypersensitivity reaction
- ◆ **Neurologic:** Asterixis, Encephalopathy, Excitability, Neuromuscular, Nonconvulsive status epilepticus, Seizure
- ◆ **Other:** Coma

PREGNANCY & LACTATION

Pregnancy Category: **B**

Breast Feeding: **Infant risk cannot be ruled out.**

USE IN SPECIFIC POPULATIONS

- ◆ Serious hypersensitivity to ceftazidime, avibactam, any component of the product, or other cephalosporin drugs.
- ◆ Use with caution in patients with severe renal

impairment and only the benefit outweigh the risks.

WARNINGS AND PRECAUTIONS

- ◆ Concomitant use with probenecid is not recommended.
- ◆ Clostridium difficile-associated diarrhea, ranging from mild diarrhea to fatal colitis, has been reported and may occur more than 2 months after administration; discontinue use if suspected or confirmed.
- ◆ Serious and sometimes fatal anaphylactic reactions and serious skin reactions have been reported with beta-lactam antibacterial drug use; discontinue if allergic reaction occurs.
- ◆ Immunologic: Use caution with allergy to penicillin or other beta-lactam antibacterial drugs, as cross sensitivity reaction may occur; discontinue if allergic reaction occurs.
- ◆ CNS reactions, including seizures, nonconvulsive status epilepticus, encephalopathy, and coma have been reported, especially in patients with renal impairment; dosage adjustment may be necessary.
- ◆ Renal: Decreased clinical response and increased risk for toxicity may occur in renal impairment (CrCL of 50 mL/min or less); monitoring recommended and dosage adjustments required.

CLINICAL PHARMACY DEPARTMENT ACTIVITIES DURING AUGUST – NOVEMBER 2015

SL.NO	ACTIVITIES	NO.OF ACTIVITIES	CUMULATIVE TOTAL
1	PATIENT COUNSELLING	103	1160
2	MEDICATION HISTORY INTERVIEW	47	463
3	DRUG INTERACTION	52	460
4	ADVERSE DRUG REACTION	09	101
5	DRUG INFORMATION	53	485

DEPARTMENT NEWS

WORLD PHARMACIST DAY

Pharmacist day was celebrated on the eve of **World Pharmacist Day** on 28th September 2015 at SAC First Grade College, Nagamangala in association with Druggist & Chemist Association, Mandya District.

Programme started with inauguration of rally from Saumyakeshava temple, Nagamangala by Prof. N. Ramu, Principal, SAC First Grade College and members of Druggist & Chemists of Nagamangala. Students from Sri Adichunchanagiri College of Pharmacy & SAC First Grade participated in the rally, pamphlets related to health information and Patient Information leaflets of Dengue and H1N1 distributed to the public.

Later stage function was organized at SAC First Grade college auditorium on the theme **"Pharmacist: Your Friend in Healthcare"** Dr. B. Ramesh, Principal, Sri Adichunchanagiri College of Pharmacy welcomed all the dignitaries. A Book on health care in Kannada was released by Mr. Cheluvarya Swamy, Local MLA, which was distributed to the gathering. Sri D.A Gundu Rao, President, KSPC; Mr. Samson P George, Drug Information Pharmacist, Karnataka State Pharmacy Council; Mr. B. Lokesh, President Druggist & Chemist Association, Mandya District, Vice President, Karnataka, Druggist & Chemist Association; Smt. Shylaja, ADC, Mandya; Smt. Vishalakshi, Drug Inspector, Mandya; Prof. N. Ramu, Principal, SAC First Grade College, Nagamangala were the Chief guest for the function later D.A Gundu Rao and Mr. Samson P George addressed the gathering on the theme.

SACCP college students performed MIME based on the theme. Around 200 ASHA health workers and 400 students participated in the programme.



NATIONAL PHARMACY WEEK - 2015

On the eve of National Pharmacy Week 2015 the college conducted a drawing competition on 18th November 2015 based on the theme for D. Pharm, B. Pharm, and Pharm D students.

Guest lecture was organized by the Department on **“PATIENT REPORTED OUTCOME, CLINICAL PHARMACY & OPPORTUNITIES IN MALAYSIA”** for all Pharm D and PG students by **Dr. Anil T**, Lecturer, Department of Pharmacy Practice, International Medical University, Malaysia.

From 24th – 27th November 2015, Department of Pharmacy Practice, SACCP organized an awareness programme on the eve of National Pharmacy Week 2015 with the theme **“Responsible Use of Antibiotics Saves Life”** in nearby colleges.

The programme was inaugurated on 24th November 2015 at BhakthanathaSwamy composite PU College, B.G.Nagara with an exhibition of various posters related to antibiotic and drug usage, followed by release of brochure in English and Kannada related to the theme by Mr. Manje Gowda, Principal, Bhaktanatha PU College, Dr. B Ramesh, Principal, SACCP and other staff of Pharmacy Practice Department, SACCP.

Guest lecture and an Exhibition was organized based on the theme **“Responsible Use of Antibiotics Saves Life”**, at BhakthanathaSwamy composite PU College, Adichunchanagiri College of Nursing BGS B.Ed. and PU College, Srikshetra and Adichunchanagiri Institute of Medical Sciences, BG Nagara by staff of Department of Pharmacy Practice Mrs. Jamuna T. R., Lecturer, Mr. BP Sathish Kumar, Associate Professor, Mr. M. Kumaraswamy, Associate Professor and Dr. Meenu Pandey, Assistant Professor, respectively delivered the lecture where around 600 students attended the programme.

In all the institutions, the programme came to an end with the MIME act based on the theme which was performed by first year students of SACCP(Harikrishnan, RishaanIftihar, Kishorilal, Ribin, Adarsh, Alvin K J, AlbinSoj, Amal Das, Vinay & Nidhinshaji) which was narrated by Alwin Joe Thomas, student of Sixth year Pharm.D, SACCP.

All Staff & Students of Department of Pharmacy Practice, SACCP were actively involved in creating awareness about the antibiotic use among the students during the programme.





State Level CME on “Pharmacovigilance- Medication Safety”

Department Of Pharmacology AIMS, in association with Department of Pharmacy Practice SACCP, B G Nagara conducted State Level CME on Pharmacovigilance- Medication Safety on 3rd December 2015.

The programme was inaugurated by Dr. MG Shivaramu, Principal AIMS, Dr. B Ramesh, Principal, SACCP, Dr. Somashekaraiah, Pediatrician, KMC, Bangalore, Dr. Ravi Shankar M, Organizing Chairman, Professor and Head, Department Of Pharmacology.

The scientific session started with Dr. G Parthasarathi, Professor Dept. Of Clinical Pharmacy and Principal, JSS College of Pharmacy, Mysore on the topic **“History And Development Of Pharmacovigilance As A Science”** later in the afternoon session he delivered speech on **“Establishing Adverse Drug Reaction Monitoring Centre In Hospital”** and also on **“Pharmacovigilance Current Trends And Future Challenges”**. After each session he cleared all the queries asked by the delegates of different institutions.



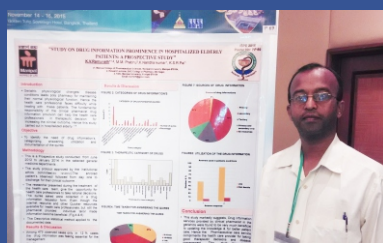
Dr. Veeranna S, Professor, Dept. of Dermatology, JSS hospital, Mysore, briefed on **“Medication Safety Monitoring Basic Concepts, Terminologies” & 'Reporting Adverse Drug Reactions – A Clinical Perspective'.**

Dr. M Ramesh Professor and Head, Dept. Of Clinical Pharmacy, JSS hospital, Mysore, spoke on **'Reporting of ADR- Where and How?'**.

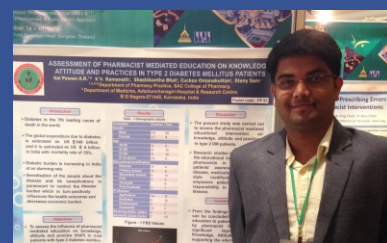
Mr. Himanshu Patel, Lecturer and Clinical Pharmacist, Dept. Of Clinical Pharmacy, JSS hospital, Mysore, delivered a lecture on **Reporting of ADR- Where and How? And Assessment of ADR and Management of Suspected ADRs.**

Dr. Justin Kurian, Lecturer and Clinical Pharmacist Dept. Of Clinical Pharmacy, JSS hospital, Mysore, talked on **'Vaccine Pharmacovigilance Adverse Events Following Immunization (AEFI).'**

Around 350 delegates from Medical, Ayurvedic and Pharmacy colleges attended the programme.



♦ **Mr. K.V Ramanath**, Associate Professor & **Sai Pawan**, Pharm D Intern attended & presented a poster titled **“Study on drug information prominence in hospitalized elderly Patients: a prospective study”** & **“Assessment of pharmacist mediated education on knowledge, Attitude and practices in type 2 diabetes mellitus patients”** in ISPE 9th Asian conference on Pharmacoepidemiology in Bangkok, Thailand.



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