

SRI VENKATESWARA COLLEGE OF PHARMACY

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FARMACIA PRATICA LETTRE

News Letter from Department of Pharmacy Practice

April-June 2017

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CHAIRMAN'S MESSAGE



I am glad to present very first issue of the Pharmacy Practice news letter titled "Farmacia Pratica Lettre" which would serve as a medium of knowledge transfer and represents the various activities held by Department of Pharmacy Practice, Sri Venkateswara College of Pharmacy.

Our mission is to provide state-of-the art infrastructure that facilitates optimum resource allocation to students to discover their path towards a successful future without any external distraction. We ensure that our students emerge as responsible citizens, who will be leading this nation to a better future. I wish the editorial team for the successful launch of news letter and looking forward for issues ahead.

Dr. Ravuri Venkataswamy

Chairman

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VICE CHAIRMAN'S MESSAGE



The launch of *Farmacia Pratica Lettre* – the official communication of Department of pharmacy practice is another milestone achieved by Sri Venkateswara College of Pharmacy. Our vision is to carve youth as dynamic, competent, valued and knowledgeable Professionals, who shall lead the Nation to a better future.

With a mission to impart technical education that encourages independent thinking that develops strong domain of knowledge, hones contemporary skills and Positive attitudes towards holistic growth of young minds, the institute has evolved into a center of academic excellence.

Mr. Ravuri Srinivas

Vice Chairman

SV Group of Educational Institutions

Principal's Cubicle



It is an immense pleasure that our Pharmacy practice news letter is ready to start its journey with the first issue being released during the one day national seminar 2017. The clinical pharmacy activities of our Pharmacy Practice department has gained strength in the last couple of years with the start of Pharm D programme and our faculty and students

are involved in patient medication management and associated activities in clinical departments of RVS hospitals, a tertiary care super specialty hospital. It is indeed a matter of great pride and pleasure to share some of our experiences in patient care with everyone of you. Practice directions and other documents will be drafted and approved with the assistance of the Standards of Practice Committee. The mandate of the College is to train high caliber health-care professionals, offer specialized pharma services to the community, Conduct research, offer consultancy services and participate in health policy formulation. The College has adequate and modern facilities to execute its mandate. The faculty and student editorial team deserve special appreciations and offer this news letter to our beloved Chairman and vice chairman

Dr. K. Bhaskar Reddy

Prinicipal

Sri Venkateswara College of Pharmacy

Mini Reviews

Role of Rational Drug Use on Patient Compliance

S. SHAREEN, Pharm. D – Intern

Rational drug therapy is “prescribing right drug which is appropriate to the clinical need of the patient in right dose for the sufficient duration at lowest possible cost”. Existing literature of rational drug use reveal that lack of information, poor communication between healthcare professional and patient, lack of diagnostic facilities or uncertainty of diagnosis, defective drug supply system & ineffective drug regulation, promotional activities of pharmaceutical industries and also in case of prescribing drugs without indication such as antibiotics for viral upper respiratory infections to be the main reason for irrational use of drugs. Making a specific diagnosis, considering the pathophysiologic pathway of disease selected, selecting a specific therapeutic objective or goal and prescribing medicines based on it, selecting a drug of choice, determining the appropriate dosage regiment to obtain desirable therapeutic levels, considering drug interactions and adverse events before initiating the combination therapy, prescribing required dosage at minimal frequency and planning a patient counseling session would help to enhance patient compliance.

Prosopis Cineraria- A Medicinal Plant

B.RENUKA, M. Pharm (Pharmacology)

Prosopis cineraria is commonly known as *Khejri*, which is a multipurpose tree from Leguminaceae family. It is commonly called as “*kalptaru*” in telugu or the ‘*king of desert*’ owing to its food, feed and medicinal values. It is also known as “*Golden tree*” or “*Wonder tree*” of the desert. This plant is most commonly found in the state of Rajasthan in India.



However being cultivated in various countries throughout the world, it is cultivated especially in parts of western and southern asia.

Applications: Stem bark is useful in the treatment of rheumatism, cough, common cold, helminthic disorder, dysentery, bronchitis, asthma, leucoderma, piles and tremors of the muscles. Flowers of the *prosopis* are used for managing skin diseases, as a blood purifier and to produce a cooling effect. *Prosopis* safeguards pregnancy by preventing miscarriage. Dry pods are used as analgesic, to treat high cholesterol level, diabetes, anemia, renal and hepatic disorders. Leaf is used in treating mouth ulcers, ophthalmic disorders and bacterial infections apart from its anti-hyperglycemic, anti-hyperlipidemic, and anti-oxidant activity.

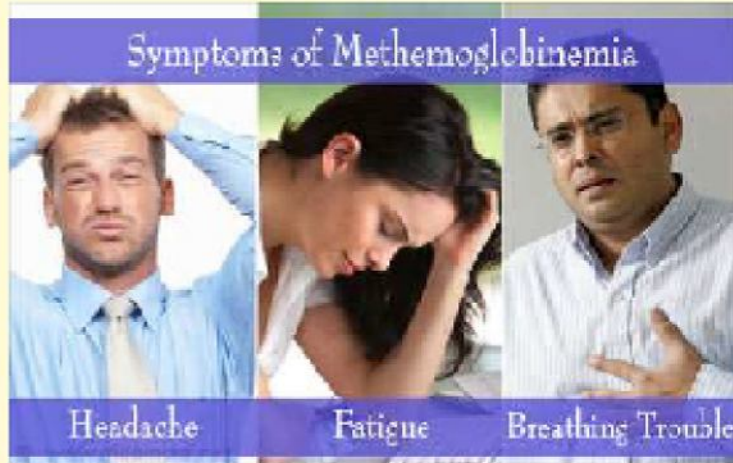
A Case Study on Rare Disease: Methemoglobinemia

P. Sudha, Pharm. D- Intern

Methemoglobinemia is a blood disorder caused by an elevated level of methemoglobin which occurs when red blood cells (RBCs) contain methemoglobin at levels higher than 1%. Methemoglobin results from the presence of iron in the ferric form instead of the usual ferrous form. This results in a decreased availability of oxygen to the tissues. Symptoms are proportional to the methemoglobin level and include skin colour changes and blood colour changes at levels up to 15% (see the image below). As levels rise above 15%, neurologic and cardiac symptoms arise as a consequence of hypoxia. Levels higher than 70% are usually fatal.

Case study

The most famous case history of methemoglobinemia comes from six generations of the Fugate family, who lived in isolation in the hills of Kentucky from 1800 to 1960. The family started with an orphan from France named Martin Fugate who married a local Appalachian woman. Both unknowingly carried the recessive gene for the disorder. Four of their seven children had blue skin. From there, the family members married each other, and the genes were passed down from one inbred generation to the next, making the blue family locally famous. An account of the Fugates from 1982 says their skin was nearly purple.



Methemoglobin Concentration	% Total Hemoglobin*	Symptoms^
< 1.5 g/dl	10%	None
1.5-3.0 g/dl	10-20%	Cyanotic skin discoloration
3.0-4.5 g/dl	20-30%	Anxiety, lightheadedness, headache, tachycardia
4.5-7.5 g/dl	30-50%	Fatigue, confusion, dizziness, tachypnea, tachycardia
7.5-10.5 g/dl	50-70%	Coma, seizures, arrhythmias, acidosis
> 10.5 g/dl	>70%	Death

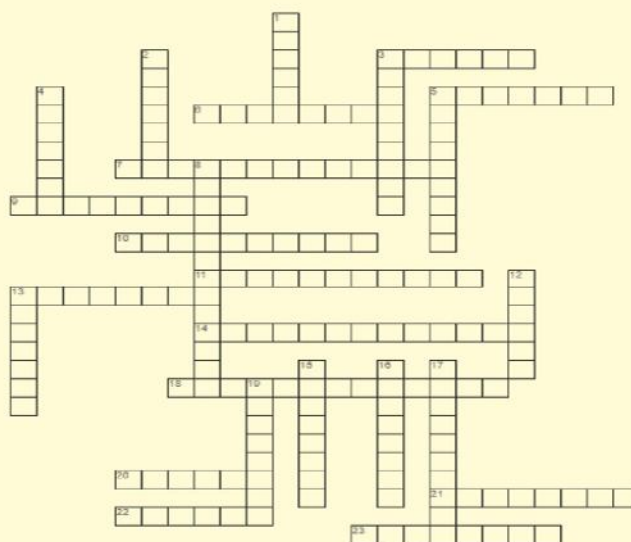
*Assumes hemoglobin = 15 g/dl. Patients with lower hemoglobin concentrations may experience more severe symptoms for a given percentage of methemoglobin level.

^Patients with underlying cardiac, pulmonary, or hematologic disease may experience more severe symptoms for a given methemoglobin concentration.

Crossword Puzzle

(Please Email your answers for crossword to editornewsletter@svcop.in. The participants will be appraised with the answers in the next issue)

K. BHARGAV, Pharm. D- Intern



Across	Down
3 Combination drug made up of amlodipine besylate/atorvastatin calcium	1 Brand name of esomeprazole
5 Brand name of atorvastatin	2 Inhaler form of mometasone
6 Brand name of conjugated estrogen	3 Generic name of catapres
7 Generic name of trileptal	4 Brand name of fluticasone nasal spray
9 Generic name of celebrex	5 Brand name of metoprolol tartrate
10 Generic name of dalmane	8 Generic name of elavil
11 Generic name of pravachol	12 Brand name of tamsulosin
13 Brand name of metformin ER 1000mg (OSM)	13 Inhaler form of fluticasone
14 Generic name of keppra	15 Brand name of quetiapine
18 Generic name of maxidex	16 Brand name of diclofenac potassium
20 Brand name of clarithromycin	17 Generic name of foradil
21 Brand name of ceftriaxone	19 Combination drug made up of dipyridamole and aspirin
22 Brand name of hydroxyzine chloride	
23 Brand name of metaxalone	

Departmental Activities

Program 1: One Day National Seminar on "Pharmacovigilance & Drug Safety"

Sri Venkateswara College of Pharmacy organized one day national seminar on "Pharmacovigilance & Drug Safety" on 04/03/2017. The program is aimed to inculcate knowledge to the participants in the concepts of pharmacovigilance such as frame work, guidelines, methodologies, risk management plan and risk evaluation and mitigation strategies.



Program 2: Yoga & Meditation Awareness program (June 19th - 21st, 2017)

Benefits of Yoga & Meditation

- Improvement of physical health by enhancing circulation of oxygenated blood in the body
- Retraining the sense organs thereby inducing tranquility and serenity of mind
- Prevents psychosomatic disorders
- Improves an individual's resistance and ability to endure stressful situations



Suggestions & Comments May Kindly be sent to
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