



॥ ज्ञानं इति शिखरं ॥

Sri Adichunchanagiri Shikshana Trust ®



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B.G.Nagara, Nagamangala Taluk, Mandya Dist. Karnataka, India-571448



*The Pharmawave – 2017**



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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 Dr. 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.

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ASTRA ZENECA LAUNCHES COMBINATION DRUG (Saxagliptin and Dapagliflozin With Metformin)

Astra Zeneca announced the launch of Combination drug. It is a FDA approved drug and it is based on three clinical trials. In two trials, the combination of saxagliptin and dapagliflozin with metformin resulted in statistically significant reductions in HbA1c in comparison to patients treated with placebo. An additional trial showed that the combination of saxagliptin and dapagliflozin added to metformin resulted in statistically superior reductions in HbA1c in comparison to patients treated with saxagliptin or dapagliflozin alone added to metformin.

It is specifically indicated as an adjunct to diet and exercise to improve glycemic control in adults with type 2 diabetes mellitus (T2DM) who have inadequate control with dapagliflozin or who are already treated with dapagliflozin and saxagliptin. It is supplied as a tablet for oral administration. The recommended dose is a 10 mg dapagliflozin/5 mg saxagliptin tablet taken orally once daily in the morning with or without food. Renal function should be assessed before initiation of therapy and periodically thereafter.

This combines two antihyperglycemic agents: dapagliflozin, a sodium-glucose cotransporter 2

(SGLT-2) inhibitor, and saxagliptin, a dipeptidyl peptidase-4 (DPP-4) inhibitor. **Dapagliflozin:** sodium-glucose cotransporter 2 (SGLT-2), expressed in the proximal renal tubules, is responsible for the majority of the reabsorption of filtered glucose from the tubular lumen. Dapagliflozin is an inhibitor of SGLT-2. By inhibiting SGLT-2, dapagliflozin reduces reabsorption of filtered glucose and lowers the renal threshold for glucose, and thereby increases urinary glucose excretion. **Saxagliptin:** Increased concentrations of the incretin hormones such as glucagon-like peptide-1 (GLP-1) and glucose-dependent insulinotropic polypeptide (GIP) are released into the bloodstream from the small intestine in response to meals. These hormones cause insulin release from the pancreatic beta cells in a glucose-dependent manner but are inactivated by the DPP-4 enzyme within minutes. GLP-1 also lowers glucagon secretion from pancreatic alpha cells, reducing hepatic glucose production. In patients with type 2 diabetes, concentrations of GLP-1 are reduced but the insulin response to GLP-1 is preserved. Saxagliptin is a competitive DPP-4 inhibitor that slows the inactivation of the incretin hormones, thereby increasing their bloodstream concentrations and reducing fasting

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and postprandial glucose concentrations in a glucose-dependent manner in patients with type 2 diabetes mellitus.

Most common adverse reactions reported in $\geq 5\%$ of patients treated with 10 mg dapagliflozin

and 5 mg saxagliptin were upper respiratory tract infection (13.6%), urinary tract infection (5.7%), and dyslipidemia (5.1%).

Compiled by- Shahinur Islam,
Eunzil Chinu Sunny, Princy Jose
Pharm D Interns

Depression, Anxiety and Life style can causes sexual dysfunction

People suffering from depression usually lack an interest towards pleasure activities. As result even though there might be nothing wrong physiologically in a person but due to lack of interest there can be sexual dysfunction. It can happen in woman as well.

Depression and anxiety are known to major cause sexual dysfunction among man causing issues like erectile dysfunction. Recently a study was conducted by Osmania general Hospital on hetero-sexual married man suffering from depression in Hyderabad. The study has found that 89% of a study sample of depressed hetero-sexual married man suffered from sexual dysfunction. Researchers also reported that 100% of the study samples of man suffering from anxiety face the problem of premature ejaculation.

It was also observed that level of testosterone, the primary male sex hormone, were significantly lower among men suffering from depression, as compare to man not suffering from Depression.

“Lead an active lifestyle”

People suffering from depression usually lead a sedentary lifestyle. They do not move around a lot and also do not participate much in physical activities. This can result in decline testosterone levels and cause sexual dysfunction. Even normal people who lead a sedentary lifestyle are at risk of facing sexual dysfunction.

“Obesity can also cause SD”

Obesity also causes sexual dysfunction. Testes, which produces testosterone is located in the scrotum, where the temperature is maintained lower then body temperature. However, as the scrotum is surrounded by fat of thighs, when a person gain more fat the temperature in scrotum increase affecting the testosterone production.

Compiled by- `Shahinur Islam
Pharm D Intern

Department News

WORLD BRESTFEEDING DAY CELEBRATION-2017

World Pharmacist day Celebration-2017

In association with Department of Paediatrics, World Breastfeeding Day was celebrated on 17th August 2017 at the seminar hall, Department of Pediatrics, AH&RC. The programme was based on the theme “Sustaining Breastfeeding Together” with the aim to support and promote breastfeeding in lactating women.



The Release of the PILs by Dr. TM Manohar

The PIL Prepared by Department of Pharmacy Practice on “Effective Approach on Importance of Menstrual Hygiene Management” was released by Dr. TM Manohar, distributed among the guests & gathered lactating mothers. A skit was performed by Pharm D students which visualized the importance of lactation and its role in neonates’ health and the development of the baby’s immature immune system. The skit also highlighted the role of the clinical pharmacist in providing patient counselling.

World Pharmacist day Celebration-2017

On the 25th of September, the college celebrated World Pharmacist Day at Bellur with the theme, **“From Research To Healthcare: Your Pharmacist Is At Your Services”**. A rally was organized at Bellur with the support of Primary Health Centre and Gramapanchayth, the program was started with the inauguration of the rally. Dr. B Ramesh, Principal, staff and students from Sri Adichunchanagiri College of Pharmacy participated in the rally. Pamphlets related to public health information and patient leaflets related to dengue, malaria, chikungunya, which were transcribed both in English and Kannada and distributed to the public . An exhibition was conducted by Pharm.D Interns in AH&RC which began at 4 PM, the exhibition was inaugurated by Medical Superintendent Dr. T M Manohar, RMO, HODs of various Departments along with Principal and faculty members of Pharmacy College, followed by the release of Ambulatory Services Card by Dr. T M Manohar and was distributed among the dignitaries. The display comprised of vibrant arts and was an amalgam of logic and reasoning with colours and provided information on various pharmaceutical services and therapeutic perspectives, the exhibition continued till the next day.



Ambulatory Patient Counselling Activity From July-2017 To October-2017

SI No	Departments	No of Patients	July	August	September	October
1	Dermatology	313	33	174	40	66
2	DNT	73	13	45	5	10
3	Endocrinology	361	48	162	66	85
4	ENT	174	33	93	12	36
5	General Medicine	911	211	641	20	39
6	Gastrology	295	69	126	36	64
7	Haematology	97	28	53	4	12
8	Nephrology	50	12	18	7	13
9	OBG	115	20	64	10	21
10	Ophthalmology	224	68	97	25	34
11	Orthopaedics	212	66	126	6	14
12	Respiratory	282	75	107	27	73
13	Surgery	89	11	58	00	20
14	Paediatrics	220	99	89	9	23

- ✦ **Dr. K.V. Ramnath**, Associate professor, partial scholarship recipient representative from SAC College attended and presented poster in ISPE 10TH Asian conference on Pharmacoepidemiology conference (ACPE) in PACE centre, University of Queensland, Australia from 29-31 October 2017



- ✦ **A state level Biochemistry CME Program-2017**
Pharm.D interns' students attended a state level Biochemistry CME Program-2017 "Clinician and Biochemist on a single platform" organized by **department of biochemistry, AIMS in associated with Association of Medical Biochemists Karnataka Chapter.**

- ✦ **An Interdepartmental Symposium**
Pharm.D interns attended, an Interdepartmental Symposium on "Placebo- Basis, Practice and Research" perspectives and current understanding organized by **Department of Psychiatry, AIMS**



- ✦ **Medical Camp**
Pharm.D interns attended 12 free medical camps along with the Adichunchanagiri Hospital and Research Centre medical team conducted in various places of Karnataka.

- ✦ **Dr. Rajesh Venkataraman and Mr.Sathish Kumar, B.P** delivered a guest lecture as a part of Continuing Education Programme; Pharm.D Lecture Series 2, on topic Dose adjustment in Hepatic failure patient and Dose adjustment in Geriatric patient organised at Bharathi College of Pharmacy, Bharathinagara, Mandya District held on 21st March 2017.

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