

# CHIPS

## REGIMEN

### ABOUT THE COLLEGE :

Nagarjuna Education Society (NES), during the year 2005 had come up with a vision to establish another professional course in the field of Pharmaceutical Sciences and came into being, with the name and style "Chebrolu Hanumaiah Institute of Pharmaceutical Sciences", popularly known as "CHIPS", located at Chowdavaram beside its sister concern R.V.R. & J.C. College of Engineering on the NH - 5. CHIPS, thus inherited the legacy of NES and had grown as one of the best Pharmaceutical Institutions in India by providing exceptional infrastructural facilities and human resources, which are ahead than the requirements stipulated by various statutory bodies. Today, it offers several UG & PG Courses in the field of Pharmaceutical Sciences like B.Pharmacy, Pharm.D & M.Pharmacy with several specializations. Discipline, quality teaching and eminent administration are traditional strengths of NES and thus CHIPS acclaimed by securing excellent results and bagging several top ranks.

The college is Surrounded by Kondavedu hills, the 5 acre campus besides its sister concerned RVR & JC College of Engineering, is all set in lush green environs, providing stimulating academic ambience. The state of the art infrastructure enables students to expand their intellectual horizons.

We aim to nourish young pharma aspirants with innovative and creative capabilities which enables them to play a vital role in the field of Pharmaceutical Sciences. We are earnestly in pursuit of our motto "FROM CONCEPT TO CREATION" with greater efforts and dedication.

CHIPS is in MOU with NRI General Hospital GUNTUR, For training Pharm.D students in providing Clinical pharmacy services at various levels in the Hospital. Dept of Clinical Pharmacy is established in the year 2011 and is equipped to provide most reliable and up-to-date information on queries related to Drugs and their usage, detection and documentation of ADRs, patient medication chart reviewing to identify Drug related problems and provide pharmaceutical care to the patients.

The institution is further strengthened with well equipped library having 6005 volumes, 1500 titles, 200 CDs, 53 National & International Journals and 100 e-journals like Inventi and DELNET. The library is fully digitalized with net facility and reprographic facilities for staff and students for their regular academic and research activities.



Drug Information News Letter  
July-Sep 2015, Volume 1, Issue 1

**Dr.K.Basavapunnaiah**, President, CHIPS:  
I congratulate the initiative taken by CHIPS in bringing out the first edition of this news letter and wish the best of luck for all the editions yet to come.



**Dr.C.N. Srinivas**, Secretary & Correspondent, CHIPS:  
With this first Edition of the news letter, we progress a step ahead in bringing knowledge and awareness to all our viewers.

**Dr.M. Gopalkrishna**, Past Secretary, CHIPS:  
I highly appreciate the efforts laid by CHIPS in bringing out its first edition of Newsletter and wish to see more coming.



**Dr.S.Vidyadhara**, Principal, CHIPS:  
It gives me a great pleasure to launch 'CHIPS Regimen' a News Letter from our institution which highlights about recent advances and news pertaining to current clinical news.



**Dr.B.Suresh**, President, PCI:  
I am delighted to launch the first edition of CHIPS News letter and thank the management for the honor. I wish them all the best for all the future editions.



**Dr.Rao V.S.V**, Chairman, IPA:  
It gives me immense pleasure to see CHIPS competing way ahead of standards in professional education by launching its first edition of Newsletter. Wish them all the best.



**Prof.T.V.Narayana**, Chairman, IPA, Education Division:  
As well wishers of CHIPS, I feel proud to see the institution advancing in the field of Pharmacy education with the launch of this news letter. Keep the great work going.



Printed & Published by

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**Dr.C.N. Srinivas**, Secretary & Correspondent

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**S. Vikas**, **Dr. M.Raghava Kalyan**

# TODAY'S MUST WATCH

The following are few important drugs approved by US FDA during the month APRIL-AUGUST 2015.

DRUG	BRAND	INDICATION
<b>CARDIOLOGY/VASCULAR RELATED DISEASES</b>		
Sacubitril and Valsartan	Entresto	Chronic Heart Failure
Ivabradine	Amgen	Chronic Heart Failure
Evolocumab	Repatha	High Cholesterol
Edoxaban	Savaysa	Deep vein thrombosis, Pulmonary embolism, Embolism due to atrial Fibrillation.
<b>ENDOCRINOLOGY</b>		
Empagliflozin and Metformin Hcl	Synjardy	Type II Diabetes Mellitus
Insulin Degludec	Tresiba	Glycemic control in adults with DM
<b>GASTROENTEROLOGY</b>		
Rolapitant	Varubi	For the prevention of delayed Nausea and vomiting associated with Chemotherapy
Ceftazidime-Avibactam	Avycaz	Complicated Intra-abdominal and Urinary tract infections.
Eluxadoline	Viberzi	Irritable bowel syndrome with Diarrhoea
Rifaximin	Xifaxan	Irritable bowel syndrome with Diarrhoea
<b>PSYCHIATRY</b>		
Brexipiprazole	Rexulti	Depression and Schizophrenia
Cariprazine	Vraylar	Schizophrenia and Bipolar Disorder
<b>IMMUNOLOGY</b>		
Tacrolimus Extended release	Envarsus XR	Prophylaxis of organ rejection in Kidney transplant patients
<b>PULMONARY/RESPIRATORY DISEASES</b>		
Lumacaftor and Ivacaftor	Orkambi	Cystic Fibrosis
<b>ONCOLOGY</b>		
Trifluridine and Tipiracil	Lonsurf	Metastatic Colorectal cancer

- ▶ **Ivabradine** which is a selective inhibitor of the hyperpolarisation activated sodium channel ( $i_f$ ), is involved in pacemaker generation and responsiveness of the sino-atrial node resulting in HR reduction without negative inotropic action. Ivabradine in chronic HF improves diastolic function and attenuates cardiac tissue hypoxia.

**Reference :** <http://www.ncbi.nlm.nih.gov/pubmed/25953938>

- ▶ **Eluxadoline** is an orally active mixed  $\mu$  opioid receptor ( $\mu$ OR) agonist and  $\delta$  opioid receptor ( $\delta$ OR) antagonist which is developed for the treatment of diarrhea-predominant irritable bowel syndrome. It normalizes gastrointestinal (GI) transit under conditions of post-inflammatory altered GI function and reducing diarrhea.

**Reference :** [www.ncbi.nlm.nih.gov/pubmed/25261794](http://www.ncbi.nlm.nih.gov/pubmed/25261794)

# CLINICAL CONNECTION

## DRUG SAFETY COMMUNICATION: SGLT2 Inhibitors

- The U.S. Food and Drug Administration (FDA) has strengthened the warning for the type 2 diabetes medicine canagliflozin (Invokana, Invokamet) related to the increased risk of bone fractures and added new information about decreased bone mineral density.
- Canagliflozin is a prescription medicine used with diet and exercise to lower blood sugar in adults with type 2 diabetes. It belongs to a class of drugs called sodium-glucose cotransporter-2 (SGLT2) inhibitors. It lowers blood sugar by causing the kidneys to remove sugar from the body through urine. It is available as a single-ingredient product under the brand name Invokana and also in combination with the diabetes medicine metformin under the brand name Invokamet.
- Trials stated that therapy with canagliflozin altered the bone mineral density over two years in 714 elderly individuals and showed greater loss of bone mineral density at the hip and lower spine than a placebo. This new safety information has been added to the Adverse Reactions section of the drug label.

Reference : [www.fda.gov/Drugs/DrugSafety/ucm461449.htm](http://www.fda.gov/Drugs/DrugSafety/ucm461449.htm)

## ADVICE

- Stroke or CVA (Cerebrovascular Accident) is a neurological medical emergency in which a part of brain loses its blood supply and stops functioning.
- A transient ischemic attack or a TIA, describes a stroke that resolves usually within minutes. This is a warning sign that a stroke may occur in the near future.
- Stroke can either be Ischemic (Obstruction of cerebral artery) or Hemorrhagic (High Blood pressure).
- **29<sup>th</sup> OCTOBER : WORLD'S STROKE DAY**

**STROKE!**  
attacks a person\*  
every seconds  
\*regardless of age, gender or race

31% of stroke victims are under 65 years old

More stroke deaths occur in females

INTERESTING FACTS ABOUT STROKE

the youngest known is 2 years old

### What is Stroke?

Stroke is a disease that affects the arteries leading to and within the brain.

#### TYPES OF STROKE

#### 1 Ischemic Stroke

Occurs when **arteries are blocked by blood clots** or by the plaque of other fatty deposits

TREATED BY



Neurologist

#### 2 Hemorrhagic Stroke

Occurs when a **blood vessel in the brain breaks** leaking blood into the brain.

TREATED BY



Neurosurgeon

Adopt these preventive measures to protect yourself against stroke:

- control your diabetes
- exercise regularly
- keep your blood pressure low
- drink alcohol in moderation
- get treated for irregular heart rhythm
- quit smoking
- eat a balanced diet
- maintain a healthy weight
- seek treatment for sleep apnea

### LEARN HOW TO DETECT STROKE **F.A.S.T.**



**FACE**  
Does their face **droop** on one side?



**ARM**  
Does their arm **drift downwards** on one side?



**SPEECH**  
Ask them to talk. Are they **mumbling**?



**TIME**  
Notice any of these signs? **Time to call** for ambulance immediately

**SEEK TREATMENT WITHIN 3 HOURS, AND YOU HAVE A HIGHER CHANCE FOR A FULL RECOVERY**

# STAFF PUBLICATIONS

1. S. Vidyadhara, R.L.C. Sasidhar, T. Balakrishna, M. Santha Vardhan. Formulation of rizatriptan benzoate fast dissolving buccal films by emulsion evaporation technique. International Journal of Pharmaceutical Investigation, April 2015, Vol 5, Issue 2.
2. P. Shetya, S. Vidyadhara, A. Ramu, R.L.C. Sasidhar, K. Viswanadh. Development and characterization of a novel nanosuspension based drug delivery system of valsartan: A poorly soluble drug. Asian Journal of Pharmaceutics, 2015, Jan-March, 29-34.
3. B. Chandrasekhara Rao, S. Vidyadhara, R.L.C. Sasidhar and Y.A. Chowdary. Formulation and Evaluation of Liquid Loaded Tablets Containing Docetaxel-Self Nano Emulsifying Drug Delivery Systems. Tropical Journal of Pharmaceutical Research April 2015; 14 (4): 567-573.
4. S. Vidyadhara, R.L.C. Sasidhar, B. Deepti, E. Wilwin and B. Sowjanyaakshmi. Formulation and Evaluation of Amoxicillin Trihydrate Lozenges. Dhaka Univ. J. Pharm. Sci. 14(1): 61-70, 2015.
5. S. Vidyadhara, R.L.C. Sasidhar, K. Tejaswi, B. Praveen Kumar and R. Mounika. Analytical Method Development and Validation for the Simultaneous Estimation of Abacavir Sulphate and Lamivudine in Tablet Dosage Form by RP-HPLC. INDIAN DRUGS, 52 (08) August 2015.
6. N.T. Ramarao, S. Vidyadhara, M.V. Basaveswara Rao, R.L.C. Sasidhar, R. Surendra Yadav. Liquid Chromatography-Tandem Mass Spectrometry Method Development and Validation for the Determination of Erlotinib in Human Plasma and Its Application in Pharmacokinetic Study. Journal of Analytical Chemistry, 2015, 70, 12, 1297-1303.

**Indo African conference on "Global Trends & Ongoing Developments in Pharmaceutical Sciences" (14/02/2015)**



**Training Programme conducted by Dr. Haritha, Ramesh Hospitals on First Aid in Patients by Cardio Pulmonary Resuscitation (CPR)**



**Ministry of Earth Sciences sponsored Seminar on Marine Naturals as Pharmaceuticals (26/07/2015)**



**CHIPS Students attended 61<sup>st</sup> IPSF World Congress 2015**



**WORLD PHARMACIST DAY CELEBRATIONS (25-09-2015)**



We are Glad to Receive your Feedback E-Mail: [chipsregimen@gmail.com](mailto:chipsregimen@gmail.com)

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