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A Newsletter on Pharmacy Practice



Dear readers, Greetings!

National Pharmacy Week 2018 observed from 18th to 24th November provided an opportunity to acknowledge the invaluable contributions pharmacists make towards patient care. The occasion marks the achievements of pharmacy professionals in educating the community about the necessity to seek knowledge about the medication by talking to a pharmacist. I appreciate my students who are involved in community service by spreading awareness about the role of a pharmacist and other important aspects of health education. Such small successes will achieve that winning effect to make them stand out in the subsequent programmes. This activity focused education will make students better leaders of tomorrow, as there will be an increased clarity of thought and energy. Pharmacists working for and with the community around is a great way to make India a Healthy India.

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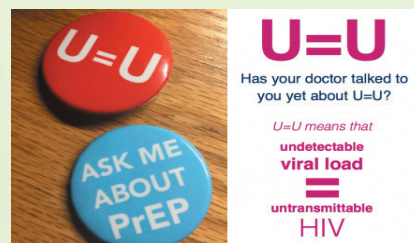


THINK PINK : SUPPORT THE FIGHT

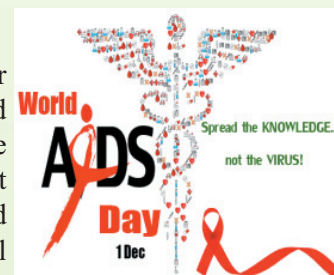
Breast cancer is the second most common cancer globally, accounting for 1.7 million new diagnoses in 2018, a 20% increase in 2016. Of even greater concern is that breast cancer has become the leading cause of mortality amongst women globally. While breast cancer incidence is higher in high-income countries (HICs), there is a the rapid rise in low- and middle-income countries (LMICs) where survival rates are the lowest. Yet tools are available to take action to dramatically reduce breast cancer risks, and as a result the International Agency for Research on Cancer (IARC) amongst others has called for urgent global action to tackle this rapidly rising burden.

HIV: Pre exposure prophylaxis [PrEP]

The public health impact of HIV in India is immense. The number of people are now living with virus and new cases are identified each year. Pre exposure prophylaxis is a way for people who are negative for HIV but who are at substantial risk of getting it to prevent infection by taking a pill every day. Truvada is the drug approved by WHO in 2012 which is manufactured by Cipla Pharmaceutical company in India, gives the awareness about the use of PrEP. Truvada contains two different medicines combined in one pill : Emtricitabine and Tenofovir disoproxil fumarate which belong to the group of HIV drugs called nucleoside reverse transcriptase inhibitors (NRTIs).



NOTE: Truvada should not be given to reduce the risk of getting HIV unless it is HIV confirmed. HIV test should be done before and at least for every 3 months while taking Truvada. It is not approved for the treatment of chronic hepatitis B virus infection [HBV]. But, in the subjects with both HIV and HBV who are treated with Truvada, HBV may flare up on stopping Truvada.





VIJAYA INSTITUTE OF PHARMACEUTICAL SCIENCES FOR WOMEN



YOUNG PEOPLE AND MENTAL HEALTH IN A CHANGING WORLD:

Every year October 10th is observed as World Mental Health Day. The theme of this year is focused on the young people and the changing world. Adolescence and the early years of adulthood are a time of life where major transition occurs in the brain as well the body at a vulnerable phase. The world is changing rapidly, the increased use of technologies, information overload, abuse, strife constantly impact the young and developing brains of the young people. Inability to handle the stress can lead to dysregulation of brain function manifesting in the form of anxiety depression substance abuse and major psychiatric disorders. According to WHO 10-20% of children experience mental disorders worldwide and half of the mental illness begin at the age of 14 yrs. Suicide is the second leading cause of death among 15-29 yr old.

Resilience helps the children in young adult to cope with whatever life throws at them. Much can be done to help build mental resilience from an early age to prevent mental distress. Prevention being with being aware of early signs and symptoms of mental illness. Psycho social support can be provided in schools and other community settings. Government is implementing many programs to raise awareness among adolescents and young adults. This is the focus for this year's world mental health day by WHO.



https://www.who.int/mental_health/world-mental-health-day/2018/en/

DEEP BRAIN STIMULATION FOR STROKE RECOVERY :

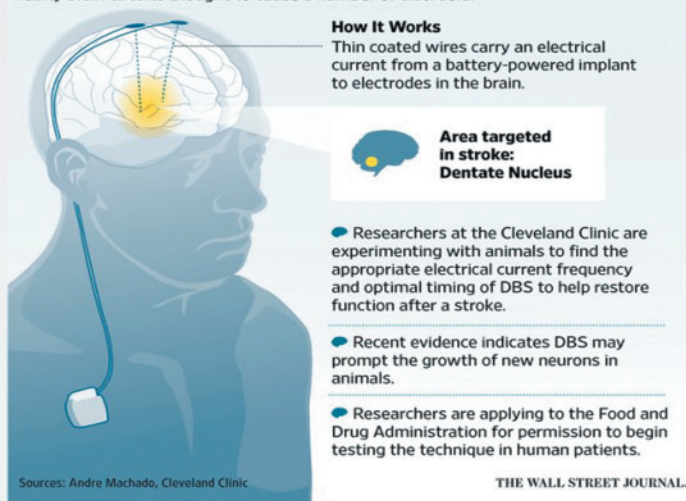
A stroke is a serious life threatening medical condition that occurs when the blood supply to the part of the brain is blocked. Most people are affected by ischemic stroke than hemorrhagic stroke. The incidence rate of stroke in India is much higher than in other developing countries. Approximately about 1.8 million Indians suffer from stroke every year. Risk factors for stroke include hypertension, smoking, diabetes, heart disease, and cholesterol imbalance. Stroke is the leading cause of disability and physical therapy has been only way to help people hitherto.

Recently researchers from Cleveland clinic conducted a trial known as deep brain stimulation (DBS) on 59 year old stroke patient where the patient shows vast improvement after 5 months. DBS is like a pace maker for the brain in which electrodes are implanted in the brain to provide small electric impulses, which target damaged areas of the brain. This trial is ongoing and is one step closer to becoming a therapy to help patients regain motor function, if it succeeds it offers new hope for patients who have suffered a stroke and remain paralyzed.

Source: <https://newsroom.clevelandclinic.org/.../1-year-after-deep-brain-stimulation-for-stroke>.

New Use for a Pacemaker in the Brain

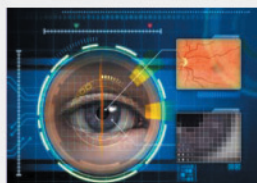
Deep brain stimulation sends electrical impulses to the brain, typically to interrupt faulty brain circuits thought to cause a number of disorders.



ACTIVITIES OF DRUG INFORMATION CENTRE

	SEPT	OCT	NOV	DEC
No. of patients counselled	60	50	77	68
No. of drug interactions observed	14	09	18	08
No. of medication errors observed	26	22	19	24
No. of pharmacist interventions	04	07	03	09
No. of adverse drug reactions observed	00	01	02	01

VIJAYA INSTITUTE OF PHARMACEUTICAL SCIENCES FOR WOMEN



ARTIFICIAL INTELLIGENCE FOR DETECTING DIABETIC RETINOPATHY

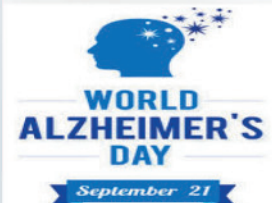
Artificial intelligence is recently approved by FDA which can help in diagnosing diabetic retinopathy which is a leading cause of vision loss in adults. According to Centers for Disease Control (CDC), it is estimated that about 16 million people will be affected by diabetic retinopathy by 2050. The disease doesn't show explicit symptoms until it reaches an advanced stage. Gold standard methods of diagnosing diabetic retinopathy are invasive or expensive and often unavailable in remote parts of the world. Fluorescein angiography and optical coherence tomography scans are currently diagnosing methods for diabetic retinopathy, alternative method is analyzing images of the retina that can be taken with fundus cameras, but the process is manual, time-consuming and less reliable, to automate the analysis of fundus images researchers develop AI algorithm technique. The algorithm can accurately and reliably spot the presence of fluid from damaged blood vessel or exudates inside the retina. The new age intuitive and less expensive fundus camera coupled with a device or mobile expected to pave the new way of thinking about diabetic retinopathy treatment, with further development this approach would overcome the barrier to reaching more diabetic patients and provide regular diabetic retinopathy screening check worldwide.

Source: <https://www.healthimaging.com/topics/artificial-intelligence/first-fda-approved-ai-diabetic-retinopathy-system>



NOVEL DRUG APPROVALS FOR 2018

DRUG NAME	ACTIVE INGREDIENT	APPROVAL DATE	USES
Copiktra	Duvelisib	24.09.18	To treat relapsed or refractory chronic lymphocytic leukemia, small lymphocytic lymphoma and follicular lymphoma
Emgality	Galcanezumab-gnlm	27.09.18	For the preventive treatment of migraine in adults
Nuzyra	Omadacycline	02.10.18	Treatment of community-acquired bacterial pneumonia and acute bacterial skin and skin structure infections
Tegsedi	Inotersen	05.10.18	Hereditary transthyretin amyloidosis indicated for poly neuropathy of hereditary transthyretin amyloidosis in adults.
Talzenna	Talazoparib	16.10.18	Treatment of breast cancer.
Emgality	Galcanezumab	27.10.18	Indicated for preventive treatment of migraine
Revefenacin	Biphenyl carbamate tertiary amine	08.11.18	Used to treat COPD
Aemcolo	Rifamycin	16.11.18	Indicated for non-small cell lung cancer.
Motegrity	Prusalopride	14.12.18	To treat chronic idiopathic constipation. It selectively stimulates 5HT ₄ receptors.



"The roots of education are bitter but fruit is sweet"
- Aristotle



VIJAYA INSTITUTE OF PHARMACEUTICAL SCIENCES FOR WOMEN



Campus News

September

- ❖ Seminar on First Aid – The Life Aid by Dr. Kola Vijaya Sekhar, Secretary, St. John's Ambulance Association, Vja., on 18-09-2018.
- ❖ Guest Talk by Sri P.V. Rami Reddy, M.D., Ravencare Remedies, Vja. on World Pharmacists' Day on 25-9-18

October

- ❖ Awareness Session on Depression by the student organization SPARSH of Dr. PSIMR, Vijayawada on 1-10-2018
- ❖ Breast Cancer Awareness Session by the students of IV Pharm D as part of Pink Challenge on 6-10-2018

November

- ❖ National Pharmacy Week Celebrations - 18th to 24th Nov., 2018
- ❖ Talk by Dr. T. Uma, Consultant Gynecologist, Sentini Hospitals, Vja., on 19-11-18 on Health and Adolescent Girls
- ❖ Students of IV Pharm D visited Vijaya Institute of Technology for Women, PSCIMR Engineering College, VR Siddhartha Engineering College, SDMS Mahila Kalasala, Sarada Junior College to spread awareness about the theme Pharmacists for a Healthy India

December

- ❖ On 1-12-2018, World Aids Day was observed. Guest talks by Dr. K. S. Sudhakar, M.O. ART Centre, APSACS, Vijayawada, Dr. P. Anil Kumar, Assoc. Prof., Pediatrics, NTRUHS, Vijayawada and Dr. S. Ram Prasad, Pediatrician, Rainbow Hospitals, Vijayawada
- ❖ Pharma Expo, 2018 on 3rd and 4th Dec., 2018
- ❖ Dr. S. Vidyadhara, Principal, CHIPS, Guntur and Dr. G. Devala Rao, Principal, Siddhartha College of Pharmaceutical Sciences, Vijayawada were the Chief Guest and Guest of Honour
- ❖ 6000 students from the surrounding schools and colleges in and around Vijayawada visited the exhibition

HEALTH CAMPS

- ❖ On 2-10-2018, at Mogguluru, Kanchikacharala Mandalam, Krishna District in association with Lions Club, Kanchikacharla
- ❖ In association with Dr. NTR Vaidya Seva, Krishna District, Aarogya Deepthi and under the guidance of Smt. Gadde Anuradha, Chair Person, ZP, Krishna District--at Pedaparupudi, Bapulapadu, Jaggayyapeta, Agiripalli.

To,

We are pleased to receive your feedback and suggestions to :

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A Pharmacy Practice News Letter,

Vijaya Institute of Pharmaceutical Sciences for Women (VIPW),

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