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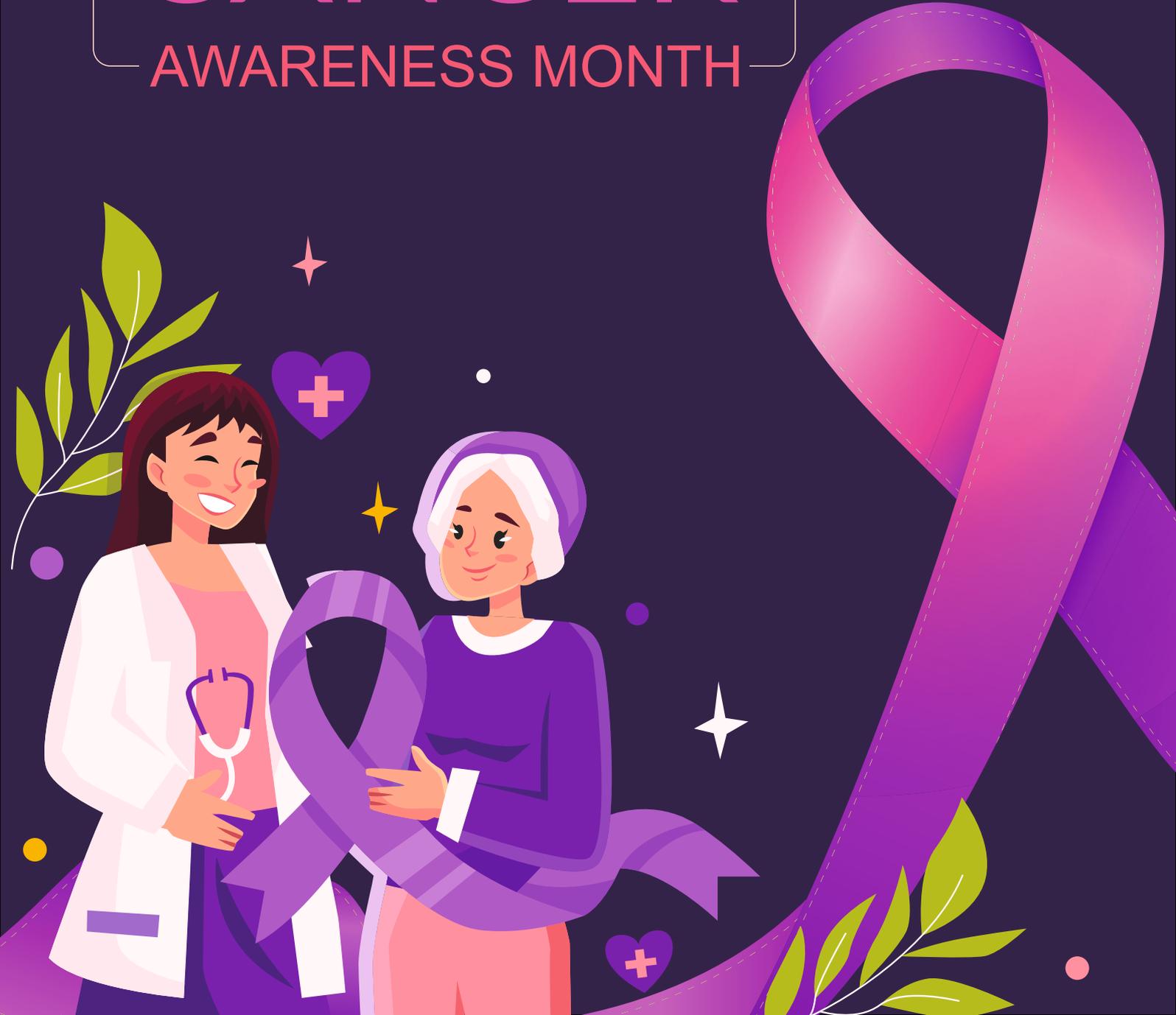
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CANCER AWARENESS MONTH



INDEX

VOILA

a new drug from India!



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PROGRESS IN FIGHTING CANCER Bringing Hope on World Cancer Day



Kiran Naidu D

4th B Pharm (8th Sem) JSS College Of Pharmacy Mysuru



ತ್ರಿರಂಗ ಧ್ವಜಕ್ಕೆ
ನನ್ನ ನಮನ



ಡಾ. ರೇಖಾ ಕೆ ಶೆಟ್ಟಿ
ಬೋಲಿವಲ, ಮುಂಬೈ

**CAMPUS
BUZZ**

Quiz



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VOILA

a new drug from India!

Dr. Sunil S Chiplunkar

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The miracle ring

The chemical ring that has saved more lives from bacterial infections, than perhaps any other chemical moiety, is the BETA LACTAM ring. This four-carbon ring, beta lactam, started its journey saving lives in World War II, as Inj. penicillin, discovered by Sir Alexander Fleming, who won the Nobel Prize for physiology or medicine in 1945. Inj. Penicillin was administered to wounded soldiers in the Allied armed forces and this intervention greatly reduced morbidity and mortality. Thus, began the momentous contributions of the beta lactam ring.

The next leap in the beta lactam antibiotic or antibacterial portfolio began in 1950s, when Dr. Giuseppe Brotzu, Prof. of Hygiene, University of Cagliari, during his stay at Sicily, discovered the fungus *Cephalosporium acremonium* that secreted antibacterial cephalosporin. The cephalosporin class of beta lactam antibacterials proved a better market since the chemical nucleus 7 – cephalosporanic acid is more stable in the presence of beta lactamases. Today, the global cephalosporin market is about 20 billion USD per annum (Rs. 1,60,000 crores/annum; just note that the entire Indian Pharmaceutical market is (as per Jan 2024 Pharmatrac report) Rs. 194951 crores/annum).

Thus, we see the beta lactam ring based antibiotics: penicillin and derivatives, cephalosporin and derivatives, carbapenems and monobactams are mainstay in anti-infective therapy.

AMR trending

Antimicrobial resistance is now trending. Beta lactamases are the enzymes that inactivate beta lactam ring of beta lactam antibiotics rendering them ineffective – and the beta lactamase producing bacteria continue to colonize causing infection. Hence, AMR concept is posing a great threat to humanity.

Beta lactamase inhibitors

Doctors rely on beta lactamase enzyme inhibitors to provide effective antibacterial therapy. The most popular beta lactamase inhibitor is clavulanic acid that causes suicide inhibition of bacterial beta lactamase enzyme, thereby saving the beta lactam ring of the antibiotic, and then the beta lactam antibiotic kills the infecting bacteria. Thus, even though beta lactamase enzyme is produced by the resistant bacteria, the beta lactam antibiotic kills the invasive pathogenic bacteria. Clavulanic acid (beta lactamase inhibitor) is combined with cephalosporins like cephalexin, and penicillins like amoxicillin for effective bactericidal activity.

India produces a novel beta lactamase inhibitor! An Indo-German success story!

On 30.1.2024, the shares of Orchid Pharmaceuticals hit the upper circuit (20% increase in share value) and trading of this scrip was stopped for the session. Such was the demand for this scrip on the bourses. And why did this happen? The announcement that Orchid Pharma's novel beta lactamase inhibitor drug enmetazobactam (brand name: Explifeb) obtained European Medicines Agency (EMA) authorization! Thereby, an Indian company made history producing a novel drug to tackle the global problem of AMR.

Enmetazobactam is given in combination with fourth generation cephalosporin drug – cefepime – for treating UTI and pneumonia. Dr. Manish Paul and Dr. Shridhar Narayanan co-invented enmetazobactam. The clinical development of this drug has been out-licensed to Allegra Therapeutics, founded in 2013. Allegra is a 'private, clinical-stage biopharmaceutical company developing novel therapies to combat antibiotic resistance by overcoming emergent resistance mechanisms'. Allegra Therapeutics is headquartered at Weil am Rhein, Baden-Wuerttemberg, Germany. Orchid Pharmaceuticals, which has based its latest success on the beta lactam ring, now inspires other Indian pharmaceutical companies to come out with their pharmaceutical innovations!



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Bringing Hope on World Cancer Day

February 4th marks World Cancer Day, a global initiative aimed at raising awareness about cancer prevention, detection, and treatment. On this day, we reflect on the progress made in the fight against cancer and the challenges that lie ahead. With innovative research and breakthrough treatments, there is a glimmer of hope for those battling this formidable disease.

Cancer, characterized by the uncontrolled growth and spread of abnormal cells, is a complex and multifaceted illness that affects millions worldwide. Despite its daunting nature, advancements in medical science have led to significant strides in cancer treatment over the years.

One of the most promising developments in cancer therapy is the advent of targeted therapies. Unlike traditional chemotherapy, which indiscriminately kills rapidly dividing cells, targeted therapies specifically target cancer cells while sparing healthy tissue. These therapies, often tailored to the individual's genetic makeup, have shown remarkable efficacy in certain types of cancer, leading to improved outcomes and reduced side effects.

Immunotherapy is another ground breaking approach revolutionizing cancer treatment. By harnessing the power of the body's immune system to recognize and destroy cancer cells, immunotherapy offers new hope for patients with advanced or treatment-resistant cancers. From checkpoint inhibitors to CAR-T cell therapy, immunotherapy has emerged as a game-changer in the fight against cancer.

Moreover, precision medicine, fuelled by advances in genomic sequencing and molecular

diagnostics, is paving the way for personalized cancer care. By analysing the genetic mutations driving a patient's cancer, healthcare providers can tailor treatment strategies to target the specific molecular abnormalities driving tumor growth. This individualized approach holds tremendous promise for improving treatment outcomes and minimizing adverse effects.

In the realm of cancer research, pharmaceutical scientists play a pivotal role in drug discovery and development. Through rigorous scientific inquiry and innovative experimentation, these experts strive to identify novel therapeutic targets and design effective drugs to combat cancer. From molecular modelling to clinical trials, pharmaceutical scientists work tirelessly to translate scientific discoveries into life-saving treatments for cancer patients.

Furthermore, pharmacists serve as indispensable members of the healthcare team in cancer care. Beyond dispensing medications, pharmacists play a critical role in medication management, ensuring that patients receive the right drugs at the right doses and intervals. They provide invaluable support to patients and caregivers, offering guidance on medication adherence, managing side effects, and navigating complex treatment regimens.

In conclusion, World Cancer Day serves as a powerful reminder of the global impact of cancer and the collective efforts to conquer this disease. With on-going research, technological innovations, and collaboration across disciplines, we continue to make strides towards more effective cancer prevention, detection, and treatment. As we honour the progress made thus far, let us recognize the indispensable contributions of pharmaceutical scientists and pharmacists in the quest for a world free from the burden of cancer.



Kiran Naidu D
4th B Pharm (8th Sem)
JSS College Of Pharmacy
Mysuru



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ತ್ರಿರಂಗ ಧ್ವಜಕ್ಕೆ ನನ್ನ ನಮನ

ಇಂದು ಮನೆ ,ಮನೆಯ ಮಾಳಿಗೆ ಮತ್ತು ಕಿಟಕಿಗಳಲ್ಲಿ ತೂಗಾಡುತ್ತಿದೆ ನಮ್ಮ ತ್ರಿರಂಗ ಧ್ವಜ
ನೋಡಿ ಹೆಮ್ಮೆಹಿಂದ ಹಬ್ಬಿತು ನಮ್ಮ ಹೃದಯ

ಶಿರ ತಗ್ಗಿತು ನಿನ್ನನ್ನು ನಮಿಸಲು

ನೂರಾರು ಜೀವ ಅರ್ಪಿಸದ ನಮ್ಮ ವೀರ ಸೈನಿಕರನ್ನು ನೆನೆಸಳು

ಅನೇಕಾನೇಕ ವೀರರು ಜಿನಿಸಿ ಹೋರಾಡಿದರು ,ಈ ಭಾರತ ಮಾತೆಯ ಮುರಿಯಲು ಸಂಕೋಲೆಯನ್ನು

ತಮ್ಮ ತಮ್ಮದೇ ತಂತ್ರಗಳನ್ನು ಗಟ್ಟಿಯಾಗಿ ಹಿಡಿದು ,ಇಟ್ಟು ಒಂದೇ ಗುರಿಯನ್ನು

ಗಳಿಸಿಕೊಟ್ಟರು ಸ್ವತಂತ್ರ ನಮ್ಮ ಭಾರತ ಮಾತೆಗೆ

ಬ್ರಿಟಿಷ್ ಈಸ್ಟ್ ಇಂಡಿಯಾ ಕಂಪನಿಯ ನಿರ್ಮೂಲನೆಗೆ ಕಾರಣರಾದರು ಮಂಗಳ ಪಾಂಡೆ

"ಸ್ವರಾಜ್ಯ ನನ್ನ ಜನ್ಮಸಿದ್ಧ ಹಕ್ಕು ಮತ್ತು ನಾನು ಅದನ್ನು ಹೊಂದುತ್ತೇನೆ" ಎಂಬ ಉಲ್ಲೇಖವನ್ನು

ಜನಪ್ರಿಯಗೊಳಿಸಿ ಹೋರಾಡಿದರು ಕೇಶವ ಗಂಗಾಧರ ತಿಲಕ್

ಬಾಪೂಜಿ ಹಿಡಿದರು, ಶಾಂತಿಯ ಸತ್ಯಾಗ್ರಹದ ಮಾರ್ಗ, ತ್ಯಜಿಸಿ ಉಪ್ಪು ಮತ್ತು ವಿದೇಶಿ ಬಟ್ಟೆ,

"ಅಸಹಕಾರ ಚಳುವಳಿ" ನಡೆಸಿ , ಸತ್ಯಾಗ್ರಹದಲ್ಲಿ ಪೂರ್ಣ ಹೃದಯದಿಂದ ಭಾಗವಹಿಸಿ

ಬಾಪೂಜಿ ಜೊತೆ ಕೂಡಿ ಹೋರಾಡಿದರು ನೆಹರೂಜಿ ,

ಮೊದಲ ಭಾರತೀಯ ರಾಷ್ಟ್ರೀಯ ಸೇನೆ ,ಆಜಾದ್ ಹಿಂದ್ ಫೌಜ್ ಅನ್ನು ಬೆಳೆಸಿ,

ಸಶಸ್ತ್ರ ದಂಗೆಯನ್ನು ಪ್ರಾರಂಭಿಸಿ ಸುಭಾಸ್ ಚಂದ್ರ ಬೋಸ್, ಗಳಿಸಿಕೊಟ್ಟರು ಸ್ವತಂತ್ರ ಭಾರತ ಮಾತೆಗೆ

ಮರೆಯದಿರಿ ಈ ವೀರ ಮುಖಂಡರು ಮತ್ತು ಸೈನಿಕರನ್ನು ,ಮತ್ತು ಅವರ ಸಮರ್ಪಣೆಗಲ್ಲನ್ನು

ಇಂದು , 75ನೇ ಸ್ವಾತಂತ್ರ್ಯ ದಿನದಂದು ನಾವೆಲ್ಲರೂ ಪ್ರತಿಜ್ಞೆ ಮಾಡುವೆವು

ಪುರುಷ ಮತ್ತು ಮಹಿಳೆಯರಿಗೆ ಸರಿಯಾದ ಅಧಿಕಾರವನ್ನು ಕೊಟ್ಟು, ಜಾತಿ ಭೇದದ ಆಧಾರಿತ ಅಥವಾ

ರಾಜಕೀಯ ನೆಲೆಯಲ್ಲಿ ಆಂತರಿಕವಾಗಿ ಹೋರಾಡದೇ , ಸ್ವಾತಂತ್ರ್ಯದ ನಿಜವಾದ ಅರ್ಥ ಅರಿದು,

ನಮ್ಮ ರಾಷ್ಟ್ರದ ಶಾಂತಿಯನ್ನ ಕಾಪಾಡುವದೇ ನಮ್ಮ ಪ್ರತಮ ಕರ್ತವ್ಯವಾಗಲಿ

ಇದುವೇ ಇಂದು ನನ್ನ ಪ್ರಾರ್ಥನೆ



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DREAMS | REALITY VERSUS ILLUSION

Introduction:

Dreams are like exciting adventures that take us to magical places in our minds. They're fascinating because they captivate our imagination and draw us in with their mysterious appeal. Whether experienced in the light of day or the dark of night, they signal us to reflect on their significance. Are they mere figments of imagination or profound glimpses into the human mind and soul?

Defining Waking and Sleeping Dreams:

- Waking Dreams: Occur during conscious moments of the day.
- Often involve fantasies and aspirations about our future or desires.
- Serve as a form of mental escapism from the routines of everyday life.
- Can be triggered by boredom, daydreaming, or moments of inspiration.
- Offer insights into our conscious desires and motivations.
- Sleeping Dreams: Happen during unconscious states of sleep.
- Can range from bizarre and fantastical adventures to realistic scenarios.
- Reflect the subconscious mind's processing of emotions, fears, and memories.
- Often involve symbols and metaphors rather than literal representations.
- May provide clues to some unresolved issues or psychological conflicts.

Similarities between Waking and Sleeping Dreams:

- Imagination and Creativity: Both waking and sleeping dreams involve the imaginative faculties, allowing for creative thought processes and generation of descriptive ideas.
- Symbolism and Metaphor: Dreams often contain symbolic elements conveying deeper meanings or representing subconscious thoughts and emotions.
- Emotional Content: Both types of dreams evoke strong emotions, reflecting inner experiences ranging from fear and anxiety to joy and elation.
- Narrative Structure: Dreams have a sequential or non-sequential storyline, whether experienced during wakefulness or sleep.
- Memory Consolidation: Dreams aid in integrating new information into existing knowledge frameworks, aiding in memory consolidation.
- Exploration of Possibilities: Dreams provide a platform for exploring possibilities and alternative realities, engaging in hypothetical scenarios and visualizing outcomes.
- Subconscious Processing: Dreams serve as a means of subconscious processing, making sense of complex thoughts and emotions.
- Problem-Solving: Dreams facilitate exploring different perspectives and potential solutions to real-life challenges.
- Time Distortion: Dreams can distort the perception of time, with minutes feeling like hours or vice versa.
- 10. Inspirational Source: Dreams serve as a source of inspiration for creative endeavours, influencing artistic works, scientific discoveries, and innovation.

Pros and Cons of Dreams:

Pros:

- Dreams, whether we're awake or asleep, can make us feel happy and excited.
- They let us imagine all sorts of things and help us come up with new ideas.
- Dreams can inspire us to do great things and encourage us to pursue our goals.

Cons:

- Sometimes, dreams can be confusing or scary, leading to anxiety or distress.
- Nightmares, especially, can leave some people feeling afraid even after we wake up.
- Dreams may blur the lines between reality and fantasy, causing confusion.

Dreams, similar to the complex layers, possess a transformative quality. In these short-lived realms, time and space bend to the fancy of the dreamer, blurring the boundaries between what is real and what is imagined. Much like multiple characters in a movie, we too navigate the twisting corridors of our subconscious, wrestling with the mysterious forces that shape our dreams and, ultimately, our reality.

Some Funny Quotes:

- Dreams are like jigsaw puzzles, sometimes you find the missing piece, and sometimes you're just left scratching your head.
- If dreams were money, I'd be rich from all the weird ones I've had.
- Dreams are like Wi-Fi signals, you never know when they'll disappear, leaving you stranded in the middle of nowhere.
- Dreams are like alarm clocks, they go off at the most inconvenient times and leave you scrambling to hit snooze and stay in bed a little longer.

Conclusion:

As we explore into the captivating world of dreams, let us embrace the adventure while remaining grounded in reality. Dreams may dazzle and inspire, but they also challenge our perceptions and invite us to explore the depths of our subconscious. As we trek through the delicate landscapes of both waking and sleeping dreams, we are confronted with profound questions that challenge the very fabric of our existence.

What truths lie hidden within the shadows of our subconscious?

What mysteries await our discovery as we solve the uncertain depths of dreams?

Let's dare to confront these mysteries head-on, not only by unlocking the secrets of the human experience but also by uncovering profound insights into the human soul and the boundless potential of the mind.

Veeresh V
Executive Vice President
Operations, HR, Training & Development
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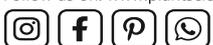


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Al-Ameen College of Pharmacy



The Placement Cell & IIC of Al-Ameen College of Pharmacy, Bangalore conducted one day session on "An Expert Guidance session on GPAT" on 5th Jan-2024.

What is GPAT?, Conducted by?

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INSTITUTION'S INNOVATION COUNCIL celebrates NATIONAL YOUTH DAY
To Commemorate the Birth Anniversary of Swami Vivekananda

The highest manifestation of strength is to keep ourselves calm and on our own feet.

NATIONAL YOUTH DAY
12th Jan-2024

"Contribution of Youth in Innovation & Entrepreneurship"

NATIONAL YOUTH DAY TIMELINE

- 1863: A leader is Born: Swami Vivekananda is born into an aristocratic family in Kolkata, India.
- 1896: East Meets West: Vivekananda speaks at Parliament of the World's Religions in Chicago and introduces the Vedanta philosophy to the West.
- 1897: The Ramakrishna Mission For Social Services: Vivekananda founds the Ramakrishna Mission -- its ideals are based on karma yoga and the teachings of his guru.
- 1955: National Youth Day Declared: The Indian Government declares Swami Vivekananda's birthday, January 12, as National Youth Day to honor the great spiritual leader, and to encourage the youth in the country.
- 1950: A Great Soul Departed: Vivekananda retires to his room and passes away peacefully while he is in a meditative state.

The IIC & NSS Unit of Al-Ameen College of Pharmacy, Bengaluru celebrated "National Youth Day" to commemorate the Birth Anniversary of Swami Vivekananda on 12th Jan-2024.



The IIC and Department of Pharmacy Practice of Al-Ameen College of Pharmacy, Bangalore conducted One Day Workshop on ECK/EKG Interpretation in Association with Relief Plus, Bengaluru on 23rd Jan-2024. The workshop received tremendous response with more than 240 registered delegates from different Institutions & from different parts of the country.



WORKSHOP ON ECG/EKG INTERPRETATION

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"CHIGURU - NATIONAL YOUTH DAY 2024: IGNITING HOPE AND EMPOWERING FUTURES"

The National Service Scheme and Institution's Innovation Council of Nitte College of Pharmaceutical Sciences, Bengaluru celebrated National Youth Day, 'Chiguru' which featured a range of activities including a logo competition, e-poster presentation, reels competition, and food fest was organized with the aim of advocating for a nutritious diet, emphasizing the importance of nutritional value, and fostering innovation in the realm of food. Dr. Ramachandra Setty, Director R&D RGUHS, Bangalore, graced the occasion, sharing valuable insights from Swami Vivekananda to inspire the youth towards success. Principal, Dr. Kusum Devi motivated the youth by highlighting the significance of entrepreneurship and success, drawing from Swami Vivekananda's teachings. The official ceremony was followed by a captivating flashmob performance by the college students, capturing the audience's attention. Subsequently, competitions took place, providing a platform to unveil the innate abilities of students, with the support and guidance offered by the faculty. Overall, the celebration not only brought together diverse activities but also fostered a sense of community and inspiration among the youth.



"ELEVATING ACADEMIC EXCELLENCE: NURTURING THE FUTURE THROUGH FACULTY DEVELOPMENT"

The Nitte College of Pharmaceutical Sciences in Bangalore recently hosted a comprehensive faculty development program attended by its faculty members. Renowned speaker Dr. Sandeep Shastri, Director- Academics, Nitte Educational Trust, Former Vice Chancellor, Jagran Lakecity University, Bhopal led the session. During the session, sir delved into the Theory of Multiple Intelligences. The faculty members were then organized into groups, each tasked with analyzing specific skills. Engaging discussions ensued as groups shared their insights, reflecting on memorable experiences with students. The session delves into leveraging multiple intelligences as an effective tool to adopt a student-centered approach, aiming to unlock each student's full potential. This collaborative approach aimed to enhance teaching methodologies and foster a dynamic educational environment.





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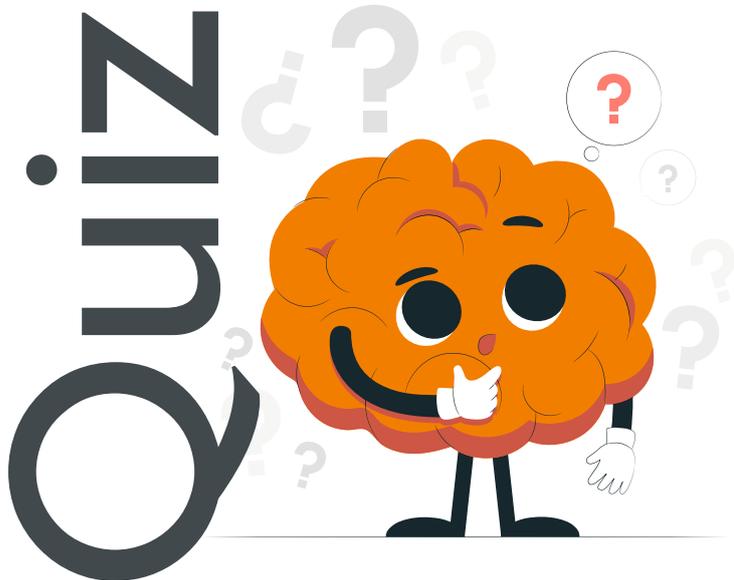
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DIABETIC PORTFOLIO





RULES

1. Correct answers will be rewarded 2 point each (20 marks)
2. Answer of the quiz will be evaluated by panel of judges and their decision is final. (Max mark:20)
3. Those who get the highest marks, their photo will be published in our next bulletin and also a cash prize of Rs.500/- will be rewarded to them
4. The answer must be sent within **05 March 2024** to this E Mail ID- krpaindia@gmail.com
5. A confirmation mail will be sent to you on receiving your e-mail.

Which document provides detailed information about a pharmaceutical product, including its composition, manufacturing, and clinical data, submitted for regulatory approval?

- a) Package Insert
- b) Investigational New Drug (IND) Application
- c) Summary of Product Characteristics (SmPC)
- d) Certificate of Analysis (CoA)

What does the abbreviation "NDC" represent in pharmaceutical terminology?

- a) National Drug Code
- b) New Drug Classification
- c) Non-Drowsy Capsule
- d) Normal Dosage Control

What is the primary reason for the ban on the use of thalidomide, a drug once prescribed for morning sickness in pregnant women?

- a) Cardiotoxicity
- b) Teratogenic effects
- c) Hepatotoxicity
- d) Nephrotoxicity

What is the orphan drug designation granted by regulatory agencies?

- a) Drugs for rare diseases
- b) Experimental drugs
- c) Over-the-counter medications
- d) Generic drugs

Which plant-derived substance, known for its antimalarial properties, is derived from the bark of the cinchona tree?

- a) Quinine
- b) Artemisinin
- c) Taxol
- d) Reserpine

What is the primary purpose of Phase I clinical trials in drug development?

- a) Assess long-term safety
- b) Investigate pharmacokinetics and dosing
- c) Evaluate efficacy in a large patient population
- d) Conduct post-marketing surveillance

What is the primary therapeutic use of eculizumab, a monoclonal antibody?

- a) Rheumatoid arthritis
- b) Hereditary angioedema
- c) Multiple sclerosis
- d) Cystic fibrosis

Which substance, often abused for its hallucinogenic properties, is classified as a Schedule I controlled substance and is banned in many countries?

- a) Methamphetamine
- b) Heroin
- c) Cocaine
- d) LSD (Lysergic acid diethylamide)

What term is used to describe the process of drying and curing medicinal plants to preserve their therapeutic properties?

- a) Tincture
- b) Infusion
- c) Decoction
- d) Pharmacopoeia

Which inorganic compound is commonly used as a contrast agent in diagnostic imaging, especially for visualizing the gastrointestinal tract?

- a) Barium sulfate
- b) Sodium chloride
- c) Magnesium hydroxide
- d) Potassium permanganate



Jayalaxmi F Shintre
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INSPIRATIONAL PHARMACIST

STEWART ADAMS

Adam was born in Byfield, Northamptonshire, at 4 New Terrace on 16 April 1923. His father was a railwayman, and grew up in a rural farming area in Northamptonshire. Adams was an only child.

Adams went to Byfield Council School, then his parents moved in 1933 to Doncaster, and he went to Doncaster Grammar School, then in 1937 March, to Isle of Ely, where he attended March Grammar School; he left school aged 15 in 1939. He became a Pharmacist, on a three-year apprenticeship, at a Boots chemist in March. From this he gained an interest in science, and Boots paid for him to do a B. Pharmacy degree at University College, Nottingham, which he was awarded in 1945.

He re-joined the Boots company in 1945 and worked on their project to produce penicillin. He was moved to the research department of Boots and he went on to research rheumatoid arthritis. This was followed by a PhD in pharmacology at Leeds University returning to Boots in 1952. It was funded by a £600 research scholarship from the Pharmaceutical Society that was matched by Boots and focussed on the heparin-histamine relationships. At the time, the main medicine for the condition was corticosteroids and high doses of aspirin, which had such side effects as gastrointestinal problems and allergic reactions.

At the Boots Pure Drug Company in 1953, Adams began work on other chemical substances that could have a pain-killing effect, centred on rheumatoid arthritis. He worked in a house in the south of Nottingham for many years, as the main labs had been destroyed in the war, then moved to Boots Pharmaceuticals new building on Penny foot Street in 1960 where there was a radioactive lab. This is now Bio City Nottingham.

In August 1958 on Rutland Road in West Bridgford, the team with Manchester Grammar School-educated organic chemist John Nicholson (1925–83), looked at on phenoxy acids. In 1961 the team started looking at phenyl-propanoic acids. One among them was 2-(4-isobutylphenyl) propanoic acid; ibuprofen was first made in December 1961.

Four substances that went to clinical trial failed, and the last – ibuprofen – worked; it was first called RD 13621, and RB 1472. He took the first dose himself and used the drug to treat his own headaches before it was on the market. Animal tests were very encouraging, and tests on humans showed it was about three times stronger than aspirin. He had read in a German journal about ultra-violet-induced erythema on the skin of shaved guinea pigs discovered by Parke-Davis, so he could test anti-inflammatory treatments; the UV-light came from a Hanovia Kromayer Lamp. Some drugs had had amazing effects on albino guinea pigs, but none on humans. It had low GI toxicity in dogs. Boots also now wanted the new chemical to reduce fever (an antipyretic effect). The work was supported in the 1950s by the Empire Rheumatism Council (now Arthritis Research UK). The first clinical trials were by Dr. Tom Chalmers at the Rheumatic Diseases Unit at the Northern General Hospital, Edinburgh (which closed around 1990) in 1966.

A new pedestrian and cycle bridge connecting the Nottingham Science Park to the Boots head office campus, over the Midland Mainline railway, was named after Adams. The numerous accolades which he received, including an OBE in 1987 and an Honorary Freeman of the City of Nottingham are testament to the significance of his work.

This individual was a true pioneer, demonstrating the profound impact of pharmaceutical research and the invaluable role of medication in improving lives.

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