



KARNATAKA REGISTERED PHARMACISTS ASSOCIATION

CH 51, 6th Main, 5th Cross, 1st Floor, Above Sri Krishna Bakery,
Saraswathipuram, Mysuru-570009.

Ph: 9738366942 Web : www.krpaIndia.com Email : krpaIndia@gmail.com

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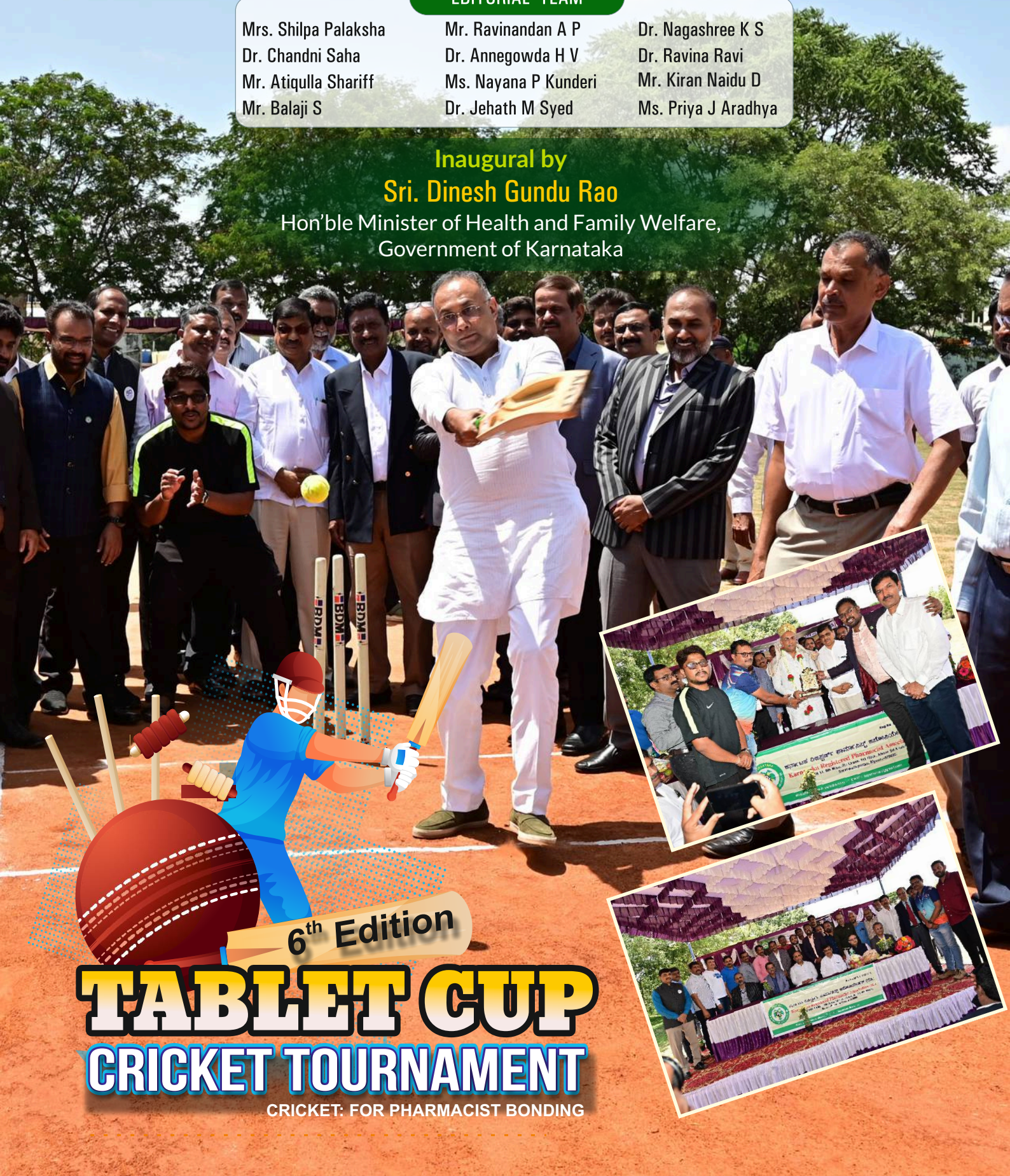
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Inaugural by
Sri. Dinesh Gundu Rao

Hon'ble Minister of Health and Family Welfare,
Government of Karnataka



6th Edition

TABLET CUP CRICKET TOURNAMENT

CRICKET: FOR PHARMACIST BONDING



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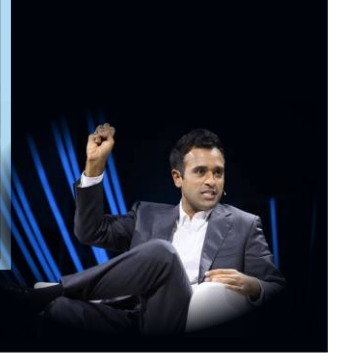
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Mr. Sunil S Chiplunkar

M Pharm (Pharmacology) MBA (Marketing) PGDHRM (PhD)
VP – Business Development, Group Pharmaceuticals, Bangalore,
Email: 1969sunilchiplunkar@gmail.com



Juvenile diabetes

The Significance of Upholding Duty Saluting the Righteous Path

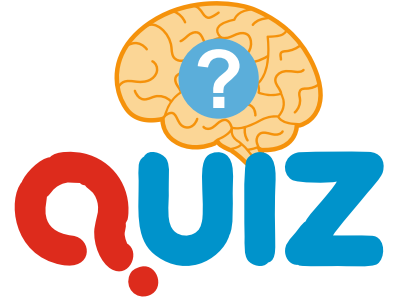
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ಡಾ. ರೇಖಾ ಕೆ ಶೆಟ್ಟಿ
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INSPIRATIONAL
PHARMACIST

GLENN SALDANHA



Karnataka State Pharmacy Council **ELECTION 2023**

Dr. Kaushik Devaraju M Pharm PhD

Pharmacist organizations require hard working, smart and visionary leadership. I confidently represent such champion leadership. I have honed my leadership skills by starting the organization: Karnataka Regd. Pharmacists Association (KRPA), that is now a bellwether pharmacist body that strives to provide progressive inputs including through webinars, Youtube videos, Sport events, lobbying, live events, and the monthly KRPA e-bulletin. Thus, I am achieving and contributing to noble profession of pharmacy through team play and effective leadership.

I have completed my M Pharm (Regulatory Affairs) and PhD in pharmacy and thus appropriately qualified to provide energetic and youthful leadership with a dash of humility.

Achievements:

1. Got Elected as President for 2 terms for Karnataka Registered Pharmacist Association at 2016 and 2019
2. Selected among Top 100 Young Leader from Karnataka and participated in Lead Prayana organised by Deshpande foundation for 14 day in 2016-2017.
3. Got Selected to Grand Finale of Smart India Hackathon which was held on 2nd & 3rd 2019 at Hyderabad
4. Founder and CEO of TUVVIE  **Tuvvie**[®]
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5. Under his leadership Karnataka Registered Pharmacists Association has got Swachhta Saarthi fellowship 2021-2022 from INVEST INDIA, Office of the Principal Scientific Advisor to government of India.
6. Winner of Amritha Startups Award 2021 & Runner up of Startup Karnataka Elevate 2021
7. Advisory Member of Vidyakula International School

Dispatch of Ballot Paper

- 27-11-2023

Last Date for Receipt of Voting Papers

- 16-12-2023 upto 5.00PM

Counting of Votes

- 18-12-2023

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M Pharm PhD
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Vivek Ramaswamy

The Pharma Man and USA Presidency



Vivek Ramaswamy is making waves as a USA Presidential candidate from Republican party for the 2024 general elections. Born in 1985 at Cincinnati, Ohio, Vivek is a businessman, politician and author. Vivek is a proud son of industrious parents; father is an engineer and patent attorney, while mother is a geriatric psychiatrist. Vivek's parents V G Ramaswamy and Geetha Ramaswamy are from Pallakad, Kerala. Vivek Ramaswamy has a degree in biology (Harvard University) and a law degree from Yale Law School. Vivek is a self-made wealthy person who made money from biotech and finance fields. Vivek was briefly a dollar billionaire and now his net worth is about 950 million USD, making him the self-made richest USA President aspirant of the Republican Party.

Roivant Sciences

Vivek Ramaswamy made his fortune as an entrepreneur by setting up Roivant Sciences in 2014. Vivek is a number cruncher who made his monies from finance, pharmaceutical and biotech investments; in fact, Roi from Roivant stands for ROI (return on investment)! Roivant uses technology for efficient and effective drug development and this differentiates the firm from others. Roivant has several VANT subsidiaries: Dermavant (focusing on dermatological products), Urovant (urological product focus), Sinovant (a China based company), Axovant (gene therapies), Priovant (along with Pfizer for monoclonal antibody development), Covant (focusing on immunology drugs), Genevant (for gene therapeutics), Hemovant (haematological products), Enzyvant (enzyme therapies), Kinevant (drugs for autoimmune diseases), Myovant (for women and endocrinological disorders), and Cytovant (Asia focused business).

Axovant share crash

Axovant launched an IPO (initial public offering) ie., went public and the shares even hit 3 billion USD on the promise that an investigational drug intepirdine will become a big seller for management of AD (Alzheimer's disease) (<https://www.alzforum.org/therapeutics/intepirdine>). However, clinical development of intepirdine was aborted after research showed no improvement in AD symptoms. This episode indicates the pitfalls in new drug development and led to Axovant share crash.

Vivek Ramaswamy's entrepreneurial ventures have till date not been profitable though they are a hive of activity. This just goes to show how complex pharma entrepreneurship is.

Vivek Ramaswamy has taken a leap of faith into American politics and is aiming to win the 2024 Presidential elections @ USA. Vivek is an interesting intelligent and eloquent personality with biotech, pharmaceutical and finance background.



Mr. Sunil S Chiplunkar

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JUVENILE DIABETES

Introduction

Juvenile diabetes is also known as type 1 diabetes a long-term metabolic disorder in which the body can't make enough insulin. It usually starts in childhood or adolescence, hence it is known as "juvenile" and it is thought to be a mix of genetics and the environment. Juvenile diabetes can cause a child to have more thirst, urinate more often, lose weight without knowing why, and feel tired. People with juvenile diabetes need to get regular medical care and support so they can take care of their condition and avoid complications

Causes and Risk Factors

Type 1 diabetes is an autoimmune disease in which the immune system by mistake attacks and kills the beta cells of the pancreas that makes insulin. There are autoantibodies and autoreactive T cells that make this process happen. People with type 1 diabetes often have autoantibodies, such as those against glutamic acid decarboxylase (GAD), insulin, and islet antigen-2 (IA-2). These autoantibodies are signs that the body's immune system is killing beta cells. Some human leukocyte antigen (HLA) genes, especially HLA class II genes, have a strong link to the risk of getting type 1 diabetes. People who are genetically prone to autoimmune responses as well exposure to cow's milk at a young age, lack of vitamin D and exposure to enteroviruses and rotaviruses may also develop type 1 diabetes

Symptoms and Diagnosis

. Symptoms of Juvenile diabetes is often characterized by increased thirst, frequent urination, unexplained weight loss, tiredness, and increased hunger among infants as the body can't control blood sugar levels well, there is a lot of glucose in the blood. There are several steps to finding out if a child has diabetes including individual's medical history, physical examination, blood tests as well as presence of autoantibodies, which are linked to type 1 diabetes along with the blood glucose. Autoantibodies against glutamic acid decarboxylase (GAD), insulin, and islet antigen-2 (IA-2) are all very common. Combining symptoms, high blood glucose levels, and the presence of autoantibodies helps confirm the diagnosis of juvenile diabetes.

Management and Treatment

Management of type 1 diabetes means keeping blood sugar levels within a target range and avoiding complications for the rest of your life. This involves a mix of insulin therapy, regular blood sugar checks, a balanced diet, and physical activity. Insulin therapy is the cornerstone of treatment for people with type 1 diabetes as their body can't make insulin and hence they need to get it from an insulin pump or injections. The dose of insulin is mainly based on each person's needs and can include multiple daily injections or a steady flow of insulin through the skin. The main objective is to make insulin work like the body's own insulin and keep blood sugar levels stable. It is possible with monitoring sugar levels several times a day with a glucose meter or a continuous glucose monitoring system. This helps diabetic patients to make smart choices about insulin doses, diet, and exercise to keep their blood sugar under control. In addition to this, they need to have well-balanced meals along with involving in various physical activities as regular exercise helps make insulin more sensitive, keep weight in check, and improve overall health. To avoid hypoglycemia or hyperglycemia, it is important to check your blood sugar before, during, and after physical activity.



Challenges and Impact

People with juvenile diabetes have to deal with a lot of problems when they try to take care of their condition. First of all, having to constantly check blood sugar, give insulin, and follow a strict treatment plan can be hard on the body and take a lot of time. This can make it hard to do things like go to school or work or hang out with friends. People with juvenile diabetes may also have to deal with emotional stress and mental problems. Living with a chronic condition, being afraid of hypoglycemia or hyperglycemia, and having to constantly check and manage blood sugar levels can make someone feel anxious, depressed, and alone. It's also common for people with diabetes to feel upset about things like treatment frustration, fear of complications, and worries about the future. Also, juvenile diabetes can cause other problems like diabetic ketoacidosis (DKA), a condition that can kill them due to high blood sugar and ketone levels. Long-term problems can include heart disease, damage to the kidneys, nerve damage, eye problems, and problems with the feet. These problems can have a big impact on the health and quality of life of people with juvenile diabetes.

Research and Progress

Genetics research has made important discoveries about the genes that put people at risk for type 1 diabetes. Genome-wide association studies (GWAS) have found a number of genetic differences that make people more likely to get the disease. This information helps find people who are at high risk and figure out how the autoimmune destruction of beta cells works. Immunology research focuses on figuring out the complicated immune response that leads to type 1 diabetes. Researchers want to find out which immune cells and molecules are responsible for killing beta cells. With this information, it might be possible to make targeted immunotherapies that can prevent or stop the disease from getting worse. Researchers around the globe are working to find possible cures for type 1 diabetes by various ways like replacement or regenerate beta cells, like stem cell therapy and islet transplantation. Also, people are working on developing immunomodulatory therapies that can keep beta cells working and stop them from dying any more. Clinical trials are still going on to test new ways to treat diabetes, such as new insulin formulations, closed-loop systems (artificial pancreas), and immune-based therapies. The goals of these trials are to improve glycemic control, make daily management easier, and stop complications.

Prevention and Education

Education is the utmost important means through which helps to take care of type 1 diabetes. It gives people the knowledge and skills they need to take care of their condition on their own, make good decisions, and avoid complications. Diabetes education includes many things, such as learning about the disease, the different ways to manage or control sugar level, checking one's own blood sugar level, injecting insulin on their own, etc along with how to eat healthy, how to stay active, and how to deal with stress. Education helps people with juvenile diabetes understand how important it is to control their blood sugar and how their choices affect their health. It gives them the tools they need to check their blood sugar levels, figure out what the results mean, and make the right changes to their insulin doses, diet, and amount of exercise. Diabetic education also helps people spot hypoglycemia (low blood sugar) and hyperglycemia (high blood sugar) and deal with them well. Most of the time, health care professionals,

diabetes educators, and multidisciplinary teams run these programs. Diabetes education programs focus on giving people the tools they need to take an active role in their own care, teaching them how to solve problems, and helping them deal with the emotional and social aspects of living with the disease. They have been shown to lower the risk of complications, improve the quality of life, and lower the cost of health care. Education gives people the knowledge and skills they need to deal with their health problems, make good decisions, and speak up for their own health needs. It also lets people help each other, share their experiences, and learn from others who are going through the same things.

The social and economic impact

Juvenile diabetes has a big impact on people, their families, and the economy as a whole. The condition affects not only a person's physical and emotional health, but also their well-being as a whole. Diabetes in kids and teens costs a lot of money as they need to live along with this metabolic disorder forever. The costs of managing and treating the condition, such as insulin, blood sugar monitoring, and doctor visits, can be high. People with type 1 diabetes may also have to pay more for health care because they have to deal with complications and other diseases. A study found that diabetes cost the U.S. economy \$245 billion in 2012, including both diagnosed and undiagnosed cases. Diabetes in kids can also affect quality of the kid's life, their academic activities and social involvement. Having to check your blood sugar, give yourself insulin, and go to doctors' appointments often can mess up your daily schedule and alter your daily work. This can make kids less productive, attentive and make it harder for them to go to school. To deal with the social effects of juvenile diabetes, everyone needs to have equal access to health care and resources for managing diabetes. Access to and resources for health care can be different for people from marginalized groups, which can lead to worse health outcomes. People with type 1 diabetes should be able to get affordable health care, diabetes education programs, and support services, no matter how much money they have or where they live.

In conclusion, addressing the multifaceted challenge of juvenile diabetes, also known as type 1 diabetes, requires a comprehensive approach. Governments should prioritize actions that enhance healthcare accessibility, ensuring that affordable insulin and supplies are readily available to all individuals. Investing in diabetes education programs is crucial, as it empowers individuals with the knowledge and skills to make informed decisions about their care, ultimately improving their quality of life. Allocating resources for research into the causes and potential cures for type 1 diabetes is essential, as it holds the promise of breakthroughs and advancements that can transform lives. Recognizing the emotional toll of this condition, governments should also promote mental health services to support individuals' overall well-being. Public awareness campaigns, collaboration with advocacy groups, and addressing healthcare disparities are equally vital steps in the battle against juvenile diabetes. By prioritizing these actions, governments can empower individuals living with juvenile diabetes, reduce healthcare costs, and contribute to a healthier and more inclusive society.





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The Significance of Upholding Duty Saluting the Righteous Path

INTRODUCTION

The quote "If you pollute your duty, you will need to salute everybody; however, if you do not pollute duty, you don't have to salute anybody" serves as a powerful reminder of the importance of fulfilling our responsibilities and maintaining integrity in our actions.

In this article, let's explore the deeper meaning behind this quote and how it relates to personal and professional life.

1. Understanding the Essence of Duty:

- ✍ Duty encompasses the responsibilities and obligations we have towards our work, relationships, and society.
- ✍ It represents a moral and ethical commitment to fulfil our obligations with sincerity and dedication.

2. The Consequences of Polluting Duty:

- ✍ When we fail to fulfil our duties and compromise our integrity, we "pollute" our duty.
- ✍ This can lead to a loss of trust, credibility, and respect from others.
- ✍ Just as pollution contaminates the environment, polluting our duty taints our reputation and has far-

3. The Burden of Saluting Everybody:

- ✍ When we pollute our duty, we become obligated to "salute everybody," meaning we must seek approval or validation from others.
- ✍ This burden arises from our diminished reputation and the need to regain trust.
- ✍ We are constantly seeking acknowledgement from others because we have lost the inherent respect that

4. The Power of Not Polluting Duty:

- ✍ On the other hand, when we uphold our duty and maintain integrity, we are free from the burden of saluting everybody.
- ✍ Our actions speak for themselves, and we earn respect and admiration naturally.
- ✍ By consistently performing our duties without compromising our values, we gain self-confidence and the trust of others.

5. Examples from History:

- ✍ Dr. A P J Abdul Kalam: Dr. Kalam's tireless efforts to advance India's space and missile technology demonstrated his unyielding commitment to his duty. His visionary leadership in spearheading the development of India's nuclear capabilities and space exploration highlighted his exceptional dedication to serving his country.
- ✍ Marie Curie: Curie's relentless pursuit of scientific knowledge and her dedication to her research duties revolutionized the field of physics and earned her worldwide recognition.

6. Quotes to Inspire:

- ✍ **Swami Vivekananda:** Do not figure out big plans at first, rather, begin slowly, feel your ground, and proceed up and up. Arise, awake and stop not till the goal is reached.
- ✍ **Steve Jobs:** The only way to do great work is to love what you do. Your work is going to fill a large part of your life, and the only way to be truly satisfied is to do what you believe is great work.

Decoding Duty | Unveiling Pros & Cons | Balanced Perspectives

Certainly, as with all aspects of life, upholding duty comes with its **own set of pros** (advantages) and **cons** (disadvantages). **The balance**, of any arguments and counterarguments, provides an **alternative perspective** and should be considered in a **balanced debate** on the significance of upholding duty.

The following points aim to provide unique **perspectives and considerations** regarding the pros and cons of upholding duty with a concise overview highlighting **benefits and potential drawbacks** in a clear and organized manner

PROS	CONS
Fulfilment of obligations and responsibilities	Conflict with personal values and beliefs
Maintaining order and stability	Potential hindrance to creativity and innovation
Building trust and reliability	Increased risk of burnout and neglect of well-being
Upholding moral and ethical standards	Subjectivity of duty across cultures and individuals
Sense of purpose and meaning in work	Potential negative consequences of blindly following duty
Contributing to the greater good	Neglect of personal relationships and well-being
Promoting accountability and integrity	Ambiguity in defining duty
Demonstrating respect and professionalism	Potential restriction of autonomy and independent thinking
Fostering discipline and commitment	Unexpected missed opportunities
Recognition and appreciation from others	Potential misuse of duty for manipulation and control

Conclusion | Balancing Integrity & Inspiration | Personally & Professionally

- ✍ **Balanced Perspective:** Recognize duty's dual nature, considering both advantages and disadvantages in discussions.
- ✍ **Personal Values and Beliefs:** Caution against conflicting personal values while fulfilling duties.
- ✍ **Creativity and Innovation:** Mind the potential hindrance to innovation from rigid duty adherence.
- ✍ **Well-being:** Be wary of burnout and well-being neglect due to excessive duty focus.
- ✍ **Cultural and Individual Variability:** Acknowledge varying perceptions of duty across cultures and individuals.
- ✍ **Negative Consequences:** Watch for potential adverse outcomes of blindly follow in context.
- ✍ **Embracing the Essence of Duty:** Fostering personal growth and harmonious relationships
- ✍ **Integrity in Responsibilities:** Earn respect through actions, not approval.
- ✍ **Duty's Fulfilment:** Building trust, inner satisfaction, and positive impact.
- ✍ **Impactful Duty:** Inspiring society and amplifying ethical leadership.
- ✍ **Duty as an Exemplar:** Inspiring others and shaping a positive legacy.
- ✍ **Aligned with Duty:** Instilling self-respect and confidence.
- ✍ **Enduring Legacy:** Paving the way for long-term success.
- ✍ **Duty's Bonds:** Nurturing harmony and cooperative relationships.

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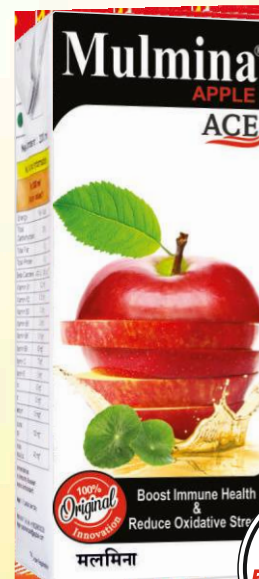
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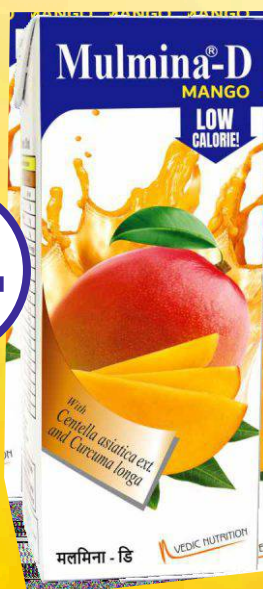


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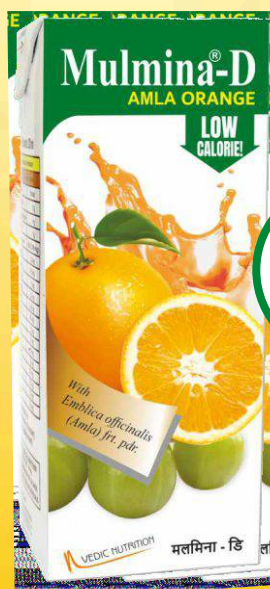


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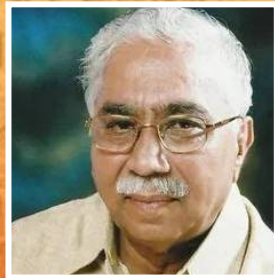
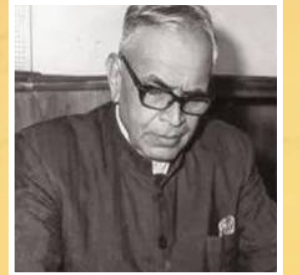
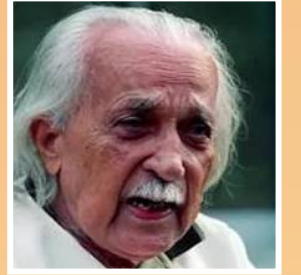
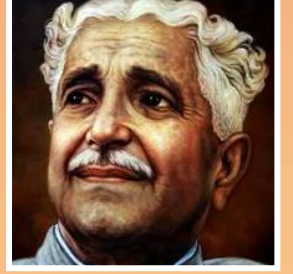
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ಓದುಗರ ವಿಚಾರ ಇದರಲ್ಲಿ ಮಿಂದು ಈಜುತ್ತೆ
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ಲೇಖನವೆಂಬ ಶಿಲ್ಪವನ್ನು
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On the occasion of the birth anniversary of Dr. Sarvapalli Radhakrishnan! We celebrated teachers day at 3pm in Rajendra Auditorium JSSCPM and this have been a special and memorable occasion for all of us. Teachers play such a vital role in our lives, and it's wonderful that teachers had a fun-filled time with activities and celebrations



Bharathi college of Pharmacy, Mandya has organised 'Bharati Utsav', on the 1st day of the event our D. Pharm students have bagged 1st prize in group dance.



Ganesh Chaturthi Celebration in JSS College Of Pharmacy, Mysuru

The Indian Pharmaceutical Association (IPA) in Mysuru, in collaboration with JSS College of Pharmacy, celebrated World Pharmacist Day 2023.

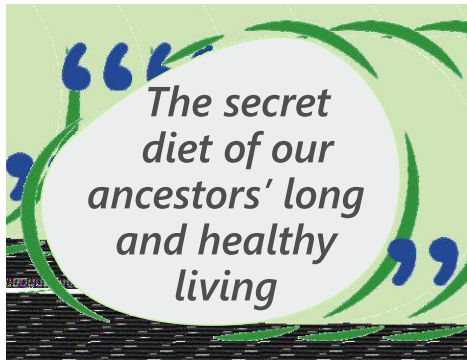
The theme for this event was "Pharmacy Strengthening Health Systems," marking the occasion on September 22, 2023.

Dr. T M Pramod Kumar, Principal of JSS College of Pharmacy and President of IPA Mysuru Branch, extended a warm welcome to dignitaries and guests.



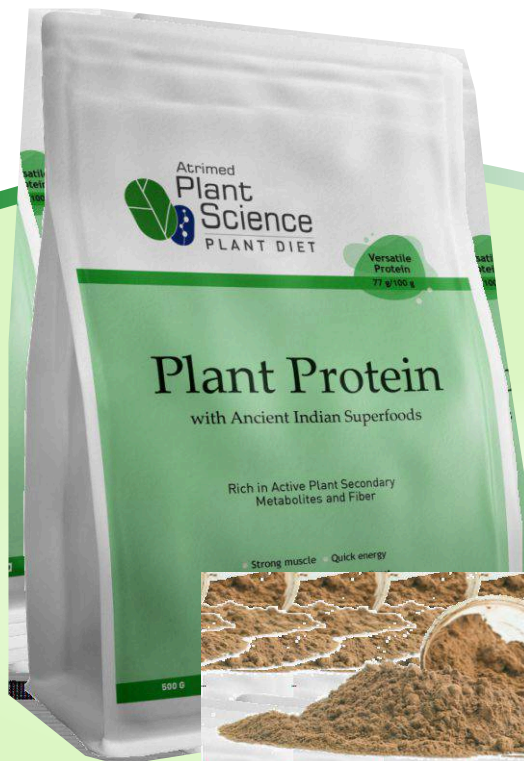
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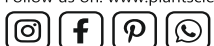


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Al-Ameen College of Pharmacy

Department of Pharmacy Practice & NSS of Al-Ameen College of Pharmacy, Bangalore participated in the mega Health Camp conducted by the Drugs Control Department, Govt of Karnataka on 20th Aug-2023 @ Government school, behind Arogya Soudha, Bangalore.

The camp benefitted more than 3000 people. Complete Free Consultation from speciality Dr's & Free medicines were distributed. Free counselling services given by our Pharm-D, M.Pharm (Pharmacy Practice) & B.Pharm students.

Heaps of Praise & Appreciation received from Shri. Dinesh Gundu Rao, Hon. Min for Health and Family Welfare, Government of Karnataka & from all the Drugs Control Department Officials for the dedicated, efficient & Professional services rendered by our students of Al-Ameen College of Pharmacy, Bangalore.



Team KABADDI of Al-Ameen College of Pharmacy, Bangalore participated in the RGUHS Bangalore Zonal Kabaddi Tournament conducted by Aditya College of Nursing, Bangalore on 25th & 26th Aug-2023.

Our Boys WON the Match against Sankara College of Optometry, Bangalore & lost to Chikballapura Institute of Medical Sciences, Chikballapur.

Boys played very well and gave tough fight to the opponents. Wishing Better Luck.. next time dear AACPIans.



The Department of Quality Assurance, Pharmaceutical Chemistry & Pharmacognosy of AAI-Ameen College of Pharmacy, Bangalore conducted a five days 'Advanced Instruments: Hands on training workshop' from 12th to 16th September 2023. This workshop helped in getting technical training in handling, problem solving and applications of sophisticated Instruments like High Performance Liquid Chromatography (HPLC), High Performance Thin Layer Chromatography (HPTLC), Gas Chromatography (GC), Infrared Spectroscopy (IR), Ultraviolet-Visible Spectroscopy (UV) & MonoWave-400, a modern microwave synthesis reactor.





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OUR COLLABORATION



Guest Lecture & Award Ceremony

As part of Eye Donation Fortnight, Department of Ophthalmology in association with Minto Eye Hospital organised a Guest Lecture on “Posterior Lamellar Corneal Surgery”

Dr Kiran kumar from Minto Hospital was the resource person.

The winners in the Ophthalmic Quiz Program were awarded with Certificates and prizes.



Jai Sri Gurudev

Adichunchanagiri College of Nursing-ACU
Adichunchanagiri University

Institutional Innovation Council in collaboration with NSS Unit of ACN, Organised a Poster Presentation competition on Chandrayan -3 Utsav on 15.09.2023. Students participated among all batches by 3 members in each group. Mr. Sathish B P, Associate Professor and Mr. Ravindra B N, Assistant Professor of Sri Adichunchanagiri College of Pharmacy were the judges and evaluated the all groups and distributed the prizes and certificates for the participants



Jai Sri Gurudev

Adichunchanagiri College of Nursing-ACU
Adichunchanagiri University

Department Of OBG nursing, Adichunchanagiri College of Nursing, B G Nagara was organized National Nutritional Week on 14th sept 2023 at 11.30 AM to 12.30 PM in ACN auditorium.

Welcome address was given by Ms Harshitha, 1ST YEAR Bsc ACN. The programme was started with prayer song by Ms.Anagha 1ST Year Bsc ACN

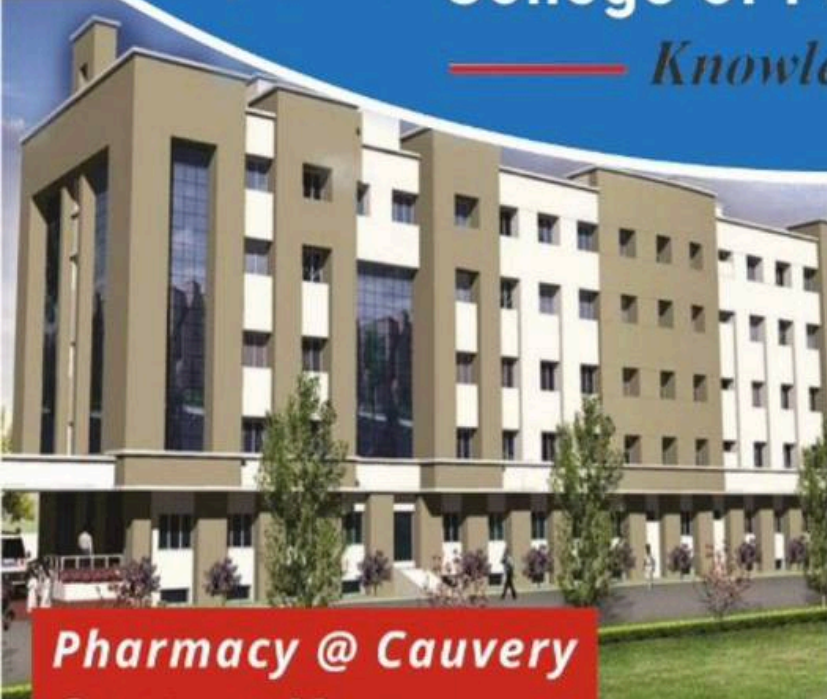




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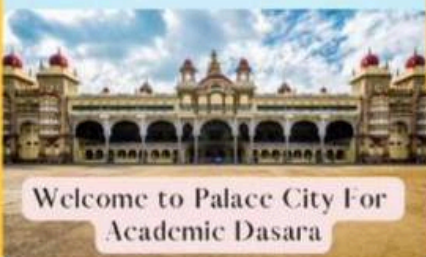
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1)"ORIENTATION DAY 2023 - WHERE FUTURES BEGIN"

NCOPS, Bengaluru organized an orientation program for B.Pharm, 1st semester students, Batch-2023. This program proved to be highly informative with valuable resources for a seamless transition into college life.



2)"ENTHUZIA 2023: UNLEASHING CREATIVITY, CELEBRATING DIVERSITY WHERE TALENT TAKES CENTER STAGE ON COLLEGE CULTURAL DAY"

NCOPS, Bengaluru organized a vibrant and diverse cultural day event with a variety of activities to engage and entertain participants while promoting cultural appreciation and understanding.

3)"FUELING PASSION, IGNITING VICTORY: COLLEGE SPORTS DAY 2023 - WHERE DETERMINATION MEETS THE FINISH LINE!"

NCOPS celebrated Sports Day-2023, providing a fantastic platform to promote physical fitness, teamwork, and a sense of community. Traditionally, sports days include a variety of athletic competitions, games, and activities. Active participation in these events provides students with a fantastic experience, fostering a well-rounded development.



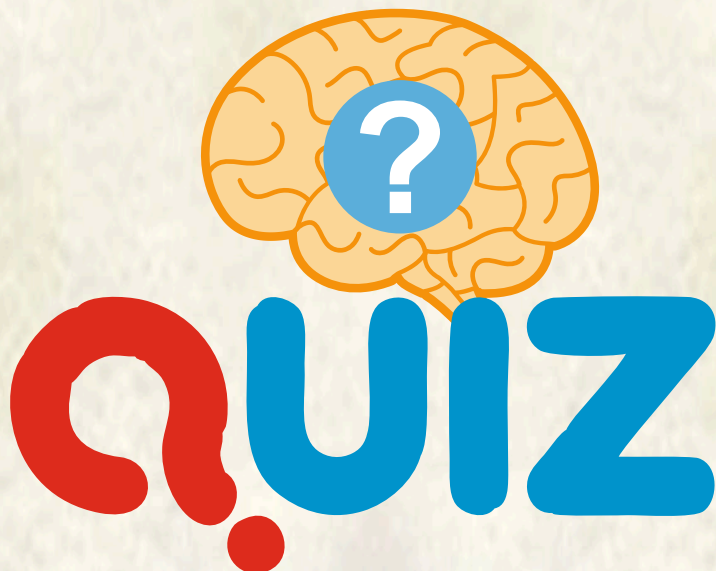
4)"NSS DAY 2023: COLORS OF COMPASSION, STROKES OF SERVICE. TRANSFORMING IDEAS INTO IMPACT!"

NSS Unit of NCOPS, Bengaluru, has celebrated NSS Day with great enthusiasm and participation at Nitte College of Pharmaceutical Sciences, Bengaluru. The event aimed to promote community engagement, social responsibility, and a sense of civic duty among our students. Two major activities, a Chart-Making Event and a Swachhata Activity, were organized as part of the celebration.

5)"WORLD PHARMACIST DAY 2023: BRIDGING HEALTH AND HUMANITY. E-POSTER BRILLIANCE AND A WALKATHON STRIDE TOWARDS A HEALTHIER TOMORROW!"

IIC and NSS Unit of NCOPS, Bengaluru, has celebrated World Pharmacist Day with a series of engaging and informative activities, centered around the theme, "Pharmacist Strengthening Health System.". The main highlights of the event were E-poster presentation followed by a walkathon upholding the importance of pharmacist in healthcare system.





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 **31th October 2023** to this E Mail ID- krpaindia@gmail.com
5. A confirmation mail will be sent to you on eiving your e-mail.

1. Which of the following drug classes is commonly prescribed to lower blood pressure?

- A) Anticoagulants
- B) Diuretics
- C) Antibiotics
- D) Analgesics

2. Which pharmaceutical dosage form is designed to dissolve slowly in the gastrointestinal tract and release the drug over an extended period?

- A) Capsule
- B) Tablet
- C) Syrup
- D) Ointment

3. What is the primary function of the liver in drug metabolism?

- A) Excretion of drugs from the body
- B) Activation of prodrugs
- C) Filtration of drugs from the blood
- D) Absorption of drugs from the gut

4. Which of the following is an example of a sustained-release dosage form?

- A) Immediate-release tablet
- B) Effervescent powder
- C) Transdermal patch
- D) Oral solution

5. Which of the following vitamins is fat-soluble and can be stored in the body?

- A) Vitamin C
- B) Vitamin B1 (thiamine)
- C) Vitamin A
- D) Vitamin B6 (pyridoxine)

6. What is the primary goal of pre-formulation studies in pharmaceutical development?

- A) Determining the patentability of a drug
- B) Evaluating the cost of drug production
- C) Understanding the physicochemical properties of a drug candidate
- D) Marketing the drug to healthcare professionals

7. Which class of antibiotics inhibits bacterial protein synthesis by binding to the 30S ribosomal subunit?

- A) Penicillins
- B) Macrolides
- C) Cephalosporins
- D) Quinolones

8. What is the role of the ICH (International Council for Harmonisation) in pharmaceutical regulation?

- A) Setting international standards for pharmaceutical manufacturing and testing
- B) Conducting clinical trials for new drug products
- C) Approving generic drug applications
- D) Regulating herbal and traditional medicine products

9. What is the term for a chemical compound that binds to a specific receptor in the body to produce a physiological effect?

- A) Inhibitor
- B) Prodrug
- C) Ligand
- D) Excipient

10. Which of the following is a common method of drug delivery that involves the use of a transdermal patch?

- A) Intravenous injection
- B) Oral administration
- C) Inhalation
- D) Dermal absorption



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INSPIRATIONAL PHARMACIST GLENN SALDANHA

Glenn Mario Saldanha was born on November 13, 1970, in Mumbai, India. Saldanha's educational journey took him to the University of Mumbai, where he pursued a Bachelor's degree in Pharmacy. He later earned a Master's degree in Management Studies (MMS) from the Jamnalal Bajaj Institute of Management Studies, one of India's premier business schools. Glenn Saldanha is a name synonymous with innovation and leadership in the pharmaceutical industry. As the founder and former CEO of Glenmark Pharmaceuticals, he has played a pivotal role in shaping the landscape of the global pharmaceutical market. He initially worked in the financial sector, gaining valuable experience in the intricacies of corporate finance and management. This early experience honed his business acumen and provided him with a well-rounded understanding of the corporate world. However, Saldanha's true calling lay in the pharmaceutical industry. He recognized the potential for growth and innovation in this field, and he decided to channel his skills and energy into this burgeoning sector. In 1977, with a vision to create a globally recognized pharmaceutical company, Glenn Saldanha founded Glenmark Pharmaceuticals. Saldanha's deep understanding of business, combined with his passion for healthcare and a commitment to delivering quality medicines, drove the formation of the company. The early years were marked by challenges and hurdles. Glenmark Pharmaceuticals started as a relatively small venture, primarily focusing on generic drugs. However, Saldanha's unwavering dedication to research and development set the company on a trajectory of growth and innovation. Under Glenn Saldanha's leadership, the company expanded its operations globally, with a presence in over 80 countries. It established research and development centers in India, Switzerland, and the United States, emphasizing the importance of cutting-edge research and innovation as a core company value. Glenn Saldanha's leadership style was characterized by a combination of vision, strategic thinking, and a deep understanding of the pharmaceutical industry. He was known for his commitment to ethical practices, transparency, and the highest standards of corporate governance. His approach to leadership was collaborative, fostering a culture of innovation and excellence within the organization. Saldanha's ability to attract and retain top talent was a testament to his leadership skills. Glenn Saldanha's contributions to the pharmaceutical industry did not go unnoticed. He received several awards and recognitions throughout his career. Some of the notable accolades include:

1. The "Pharmaleader of the Year" award, in recognition of his outstanding leadership and contributions to the pharmaceutical sector
2. The "Global Indian of the Year" award, which celebrated his achievements as a global Indian entrepreneur and leader.
3. "India Innovator of the Year" award, highlighting his commitment to innovation and scientific excellence.

These awards were a testament to Saldanha's impact on the pharmaceutical industry and his dedication to improving healthcare worldwide. Glenn Saldanha's legacy extends far beyond the pharmaceutical industry. His journey from a modest upbringing to the helm of a multinational pharmaceutical company serves as an inspiration to aspiring entrepreneurs and leaders. His commitment to research, innovation, and ethical business practices set a high standard for the industry as a whole. Under his leadership, Glenmark Pharmaceuticals continued to evolve as a global player, contributing to scientific advancements and improving the quality of life for countless individuals. In March 2021, Glenn Saldanha retired from his role as the CEO of Glenmark Pharmaceuticals, marking the end of an era in the company's history. Glenn Saldanha's journey from a young, ambitious entrepreneur to the CEO of a globally recognized pharmaceutical company is a testament to the power of vision, dedication, and ethical leadership. His impact on the pharmaceutical industry, marked by a commitment to research and development, ethical business practices, and a global presence, has left an indelible mark in the field of pharmacy.

Krithika R
4th B Pharm (7th Sem)
JSS College Of Pharmacy
Mysuru



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