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## Swachhta Saarthi Samaroh 2022

**Dr. KAUSHIK D**

M. Pharm(Regulatory Affairs), Ph.D.  
President,  
Karnataka Registered Pharmacists Association (R)



## The Gambian Tragedy

**Mr. Sunil S Chiplunkar**

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



ರಾಜ್ಯದ ಔಷಧ ನಿಯಂತ್ರಣ ಇಲಾಖೆಯ  
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**Mr. T K Thulsi Babu**



## INSPIRATIONAL PHARMACIST

**MR. MURALI DIVI**

The Accidental Chemist

**Saakshi Jain**  
4th B Pharm , JSSCMP

## ಮನಸೋಂಕು ಪಂಚರ

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I am very happy to inform you all that I was honored to visit Rastrapathi Bhavan because of Swachatha Sarathi Fellowship which was given to Karnataka Registered Pharmacists Association. I thank all the stakeholder for supporting the MEDSBIN Concept, Got a chance interact with officials from principal scientific Advisory to Government of India, Invest India, Waste to Wealth Mission Team . Thanks once again to all of you for being with KRPA, Jai Pharmacist, Jai KRPA, Jai Bharath.



**Dr. KAUSHIK D**  
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# The Gambian Tragedy



Gambia or The Gambia is a low income African country with per capita income of 440 USD, one of the poorest nations of the world, which is located on the western side of African continent. Many such African countries and other low or middle income nations across the globe including South American nations and other Asian countries, depend on low cost high quality generic medicines from India to meet their healthcare needs. India is trusted as the PHARMACY OF THE WORLD. For instance, the management of AIDS in Africa was possible only because of affordable anti HIV Indian generic medicines. India produces 91% of the world's anti HIV medicines. Due to low purchasing capacity of people in countries like The Gambia - big MNCs of USA and UK are not focused in marketing to these nations - as the cost of MNC branded medicines is very high. The Republic of Gambia or The Gambia is the smallest country of mainland Africa, located on western African coast, bordering Senegal and such countries trust affordable quality medications from India.

## The Gambian tragedy

When WHO announced in Oct 2022 that 66 child deaths in The Gambia (now gone up to 69 deaths) were due to impure cough and cold syrups manufactured by Maiden Pharmaceuticals, Haryana, India, it caused international ripples. Being trusted as pharmacy of the world, India can ill afford to have this black spot that can cause erosion of trust. India is a major and trusted pharmaceutical formulator and marketer. India is the world's third largest producer of pharmaceutical formulations by volume. India has the largest number of US FDA approved manufacturing facilities outside of USA. Thus, retaining trust is crucial in the area of life saving pharmaceutical manufacturing and marketing.

## Glycerol: the formulator's favourite

Cough syrups contain a soothing agent or demulcent called glycerol, often with flavouring agents like honey, lemon and menthol. Glycerol also functions as a solvent, thickening agent, humectant (as it is hygroscopic and helps preserve moisture) and sweetener in cough syrups. Most of the time, glycerol and glycerine terms are used interchangeably, however, glycerol is a term used for the pure compound and glycerine is used for commercial grades irrespective of purity. **Thus, when ordering for excipients, manufacturers should be careful whether glycerine or glycerol is being ordered since the latter is pure compound. Furthermore, glycerol is available in three forms:** crude glycerol, technical glycerol and purified glycerol. United States Pharmacopeia (USP) and Food Chemicals Codex (FCC) grade refined glycerol with 99.7% purity (min) is used in cosmetics, pharmaceuticals, and food. Hence, the right selection of raw material and ensuring the supplier has provided the right grade through QC analysis is a key quality assurance step.

Glycerol is a formulator's delight since it is odourless, colourless, completely miscible with water, hygroscopic, humectant, sweet, solubilizer for flavours, promotes flexibility, and good filler that gives body to the formulation. Glycerol is widely used in veterinary pharma products, energy bars, respiratory system products, skincare products, cosmetics, and many other health products. Glycerol & glycerin are used widely in chemical industries: soap, detergent, polyester manufacture, polyurethane foams, explosives and so on, in fact Leffingwell and Lesser identified 1582 applications for glycerol in 1945. Glycerol has similar sweetness to sucrose and has the same energy as sugar. Furthermore, it does not raise blood sugar levels and does not feed plaque bacteria.



### **DEG: diethylene glycol the nephrotoxic & neurotoxic impurity**

Another sweet compound but cheaper than glycerol is DEG or diethylene glycol. Further, DEG can also dissolve water insoluble drugs. When unethical manufacturers use crude grade glycerol, or substitute glycerol partially or fully, with DEG in formulations like acetaminophen syrup and cough syrups; it can lead to medication related mass deaths. DEG causes kidney damage and nerve damage. This link: <https://www.drugwatch.com/news/2020/04/20/diethylene-glycol-toxin-contamination/> documents the mass medication related poisonings of DEG. US FDA has been warning for years including in 2020, of the DEG contamination problem in syrups. DEG and ethylene glycol may enter syrups as impurities of glycerol/glycerine (or when crude glycerol is used in lieu of the purer USP/FCC grade glycerol).

### **A lesson for pharmacists**

The unfortunate Gambian tragedy is a lesson on the importance of QC, QbD and QA for pharmaceutical manufacturers. Pharmaceutical manufacturing deals with potent substances, drugs in minute quantities such as 1 mg or 1000 mcg have powerful effects. Impurities too in very small quantities have ill effects on patients who are already in poor health. Quality cannot be compromised and India should now aim to be the 'quality pharmacy of the world'.



**REGULATORY  
AFFAIRS**

#### **Mr. Sunil S Chiplunkar**

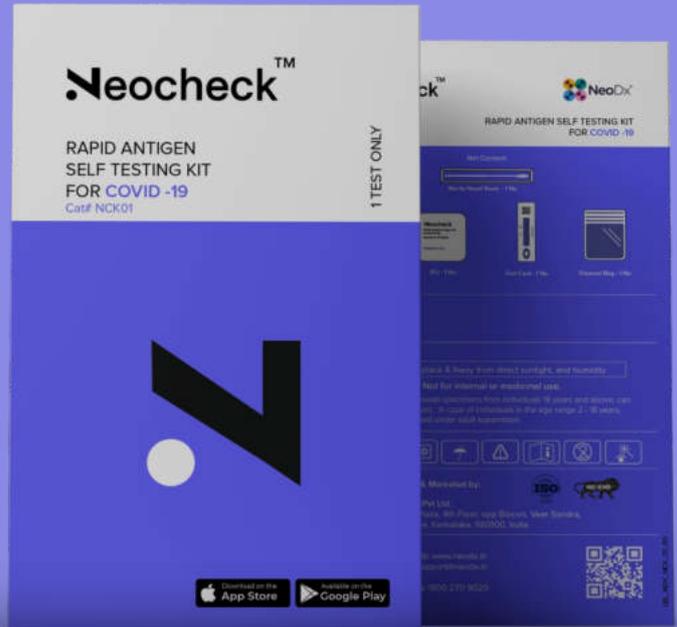
M Pharm (Pharmacology)  
MBA (Marketing) PGDHRM (PhD)  
VP – Business Development,  
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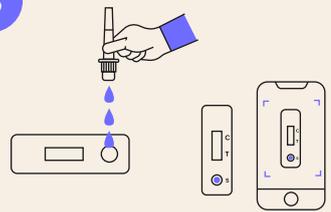
Register on the App and take Sample with Safe Swab

2



Break the swab in the buffer tube and close the cap

3



Add 2 drops on the cassette, wait for 15 minutes and save the report on the app

## FEATURES



Fast



Video Instructions



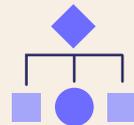
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# ರಾಜ್ಯದ ಔಷಧ ನಿಯಂತ್ರಣ ಇಲಾಖೆಯ ಕಥೆ..... ವ್ಯಥೆ.....



ರಾಜ್ಯದ ಔಷಧ ನಿಯಂತ್ರಣ ಇಲಾಖೆಯ ಅಸಹಾಯಕತೆ ಹಾಗೂ ಕಾರ್ಯವೈಖರಿಯಿಂದಾಗಿ ರಾಜ್ಯದ ಜನತೆ ಪರಿತಪಿಸುವಂತಾಗಿರುವುದು ವಿಷಾದನೀಯವೇ ಸರಿ. ಉತ್ತಮ ಗುಣಮಟ್ಟದ ಔಷಧಿ ಪ್ರತಿ ನಾಗರಿಕನ ಹಕ್ಕು ಹಾಗೂ ಅದನ್ನು ದೊರಕಿಸಿ ಕೊಡುವುದು ಪ್ರತೀ ಸರ್ಕಾರದ ಆದ್ಯ ಕರ್ತವ್ಯವಾಗಿರುತ್ತದೆ.

ಔಷಧ ನಿಯಂತ್ರಣ ಇಲಾಖೆಯು ಆರೋಗ್ಯ ಮತ್ತು ಕುಟುಂಬ ಕಲ್ಯಾಣ ಇಲಾಖೆಯಡಿ ಕಾರ್ಯ ನಿರ್ವಹಿಸುತ್ತಿದ್ದು, ಸಾರ್ವಜನಿಕರ ಆರೋಗ್ಯ ಹಾಗೂ ಸಾರ್ವಜನಿಕರಿಗೆ ಉತ್ತಮ ಗುಣಮಟ್ಟದ ಔಷಧಿಗಳು, ಜೀವರಕ್ಷಕ ಔಷಧಿಗಳು ಹಾಗೂ ಉತ್ತಮ ಗುಣಮಟ್ಟದ ಸೌಂದರ್ಯವರ್ಧಕಗಳನ್ನು ದೊರಕಿಸುವಲ್ಲಿ ಹಾಗೂ ಅವುಗಳ ಗುಣಮಟ್ಟವನ್ನು ಕಾಪಾಡುವಲ್ಲಿ ಮಹತ್ವದ ಪಾತ್ರ ನಿರ್ವಹಿಸಬೇಕಾಗಿರುತ್ತದೆ.

ಔಷಧ ನಿಯಂತ್ರಣ ಇಲಾಖೆಯಲ್ಲಿ, ಔಷಧ ಪರಿವೀಕ್ಷಕರ ಪಾತ್ರವು ತುಂಬಾ ಮಹತ್ವದಾಗಿರುತ್ತದೆ. ಅವರು ಔಷಧ ತಯಾರಿಕಾ ಘಟಕಗಳಿಗೆ, ಮೆಡಿಕಲ್ ಶಾಪ್ ಗಳಿಗೆ, ಸಗಟು ಔಷಧ ಮಾರಾಟ ಮಳಿಗೆಗಳಿಗೆ, ರಕ್ತ ನಿಧಿಗಳಿಗೆ ಹಾಗೂ ಇನ್ನೂ ಮುಂತಾದ ಕೇಂದ್ರಗಳಿಗೆ ನಿಯತಕಾಲಿಕವಾಗಿ ಭೇಟಿ ನೀಡಿ, ಅಲ್ಲಿರುವ ಸೌಲಭ್ಯಗಳು ಹಾಗೂ ಔಷಧಿಗಳ ಗುಣಮಟ್ಟವನ್ನು ಕಾಪಾಡಲು ಅನುಸರಿಸುತ್ತಿರುವ ವಿಧಾನಗಳನ್ನು ಪರಿಶೀಲಿಸಬೇಕಾಗಿರುತ್ತದೆ. ಈ ಸ್ಥಳಗಳಲ್ಲಿ ಉತ್ಪಾದಿಸಲ್ಪಟ್ಟ, ಸಂಗ್ರಹಿಸಿರುವ ಹಾಗೂ ಮಾರಾಟವಾಗುತ್ತಿರುವ ಔಷಧಿಗಳ ಗುಣಮಟ್ಟ ಪರಿಶೀಲನೆಗಾಗಿ ಔಷಧಿಗಳ ಮಾದರಿಗಳನ್ನು ಸಂಗ್ರಹಿಸಿ, ಸರಕಾರಿ ಸೌಮ್ಯ ಔಷಧ ಪರೀಕ್ಷಾ ಪ್ರಯೋಗಾಲಯಗಳಿಗೆ ರವಾನಿಸಬೇಕಾಗಿರುತ್ತದೆ.

ಹೀಗೆ ರವಾನಿಸಿದ ಔಷಧಿಗಳ ಮಾದರಿಗಳ ಪೈಕಿ ಅನುತ್ತಮ ಗುಣಮಟ್ಟದ ಔಷಧಿಗಳ [ NOT OF STANDARD QUALITY] ವರದಿ ಬಂದ ಮೇಲೆ, ಆಯಾ ಔಷಧಿಗಳ ಉತ್ಪಾದಕರ ಮೇಲೆ ಕಾನೂನು ಕ್ರಮ ಜರಗಿಸುವುದು, ಆ ಅನುತ್ತಮ ಗುಣಮಟ್ಟದ ಔಷಧಿಯನ್ನು ಮಾರುಕಟ್ಟೆಯಿಂದ ಸಂಪೂರ್ಣವಾಗಿ ತೆಗೆದು ಹಾಕುವುದು, ಆಯಾ ರಾಜ್ಯದ, ಅನುತ್ತಮ ಗುಣಮಟ್ಟದ ಔಷಧ ತಯಾರಿಕಾ ಘಟಕಗಳಿಗೆ ಭೇಟಿ ನೀಡಿ ಪರಿಶೀಲನೆ ನಡೆಸಿ, ಸೂಕ್ತ ಕ್ರಮ ಜರಗಿಸುವ ಜವಾಬ್ದಾರಿಯೂ ಕೂಡ ಔಷಧ ಪರಿವೀಕ್ಷಕರದ್ದಾಗಿರುತ್ತದೆ.

ಇದಲ್ಲದೆ, ಹೊಸ ಔಷಧಿಗಳ ಉತ್ಪಾದನೆಗೆ, ಅವುಗಳ ಮಾರಾಟಕ್ಕೆ, ಹೊಸ ಚಿಲ್ಲರೆ ಹಾಗೂ ಸಗಟು ಔಷಧ ಮಾರಾಟ ಮಳಿಗೆಗಳಿಗೆ, ರಕ್ತ ನಿಧಿಗಳಿಗೆ ಪರವಾನಿಗೆ ನೀಡುವಲ್ಲಿಯೂ ಕೂಡ ಔಷಧ ಪರಿವೀಕ್ಷಕರು ತುಂಬಾ ನಿರ್ಣಾಯಕ ಪಾತ್ರ ವಹಿಸಿರುತ್ತಾರೆ.

ಸದರಿ, ರಾಜ್ಯದಲ್ಲಿ ಸುಮಾರು 696 ಔಷಧ ತಯಾರಿಕಾ ಘಟಕಗಳು, 100 ಸೌಂದರ್ಯವರ್ಧಕಗಳ ತಯಾರಿಕಾ ಘಟಕಗಳು, 250 ರಕ್ತ ನಿಧಿಗಳು, ಸುಮಾರು 70000 ಕ್ಕೂ ಅಧಿಕ ಮೆಡಿಕಲ್ ಶಾಪ್ ಗಳು ಹಾಗೂ ಸಗಟು ಔಷಧ ಮಾರಾಟ ಮಳಿಗೆಗಳು ಕಾರ್ಯ ನಿರ್ವಹಿಸುತ್ತಿವೆ. ಇದಲ್ಲದೆ ಬೇರೆ ಬೇರೆ ರಾಜ್ಯಗಳಲ್ಲಿ

ಉತ್ಪಾದನೆಗೊಂಡ ಲಕ್ಷಾಂತರ ಔಷಧಿಗಳು ಸಹ ಕರ್ನಾಟಕ ರಾಜ್ಯದಲ್ಲಿ ಮಾರಾಟಗೊಳ್ಳುತ್ತವೆ.

ಇಷ್ಟೆಲ್ಲಾ ಘಟಕಗಳನ್ನು ಹಾಗೂ ಕಾರ್ಯಗಳನ್ನು ನಿರ್ವಹಿಸಲು ರಾಜ್ಯದಲ್ಲಿ ಇರುವ ಔಷಧ ಪರಿವೀಕ್ಷಕರ ಸಂಖ್ಯೆ ಮಾತ್ರ 16. ಉಳಿದ 113 ಔಷಧ ಪರಿವೀಕ್ಷಕರ ಹುದ್ದೆಗಳು ಸುಮಾರು ವರ್ಷಗಳಿಂದ ಖಾಲಿ ಬಿದ್ದಿವೆ.

ಇದನ್ನು ಮನಗೊಂಡ ರಾಜ್ಯ ಸರ್ಕಾರವು, ಕರ್ನಾಟಕ ರಾಜ್ಯ ಲೋಕಸೇವಾ ಆಯೋಗದ ಮುಖಾಂತರ 2018 ರಲ್ಲಿ 83 ಹುದ್ದೆಗಳಿಗೆ ನೇಮಕಾತಿ ಅಧಿಸೂಚನೆಯನ್ನು ಹೊರಡಿಸಿ, 2021 ರಲ್ಲಿ ಅಂತಿಮ ಆಯ್ಕೆ ಪಟ್ಟಿಯನ್ನು ಬಿಡುಗಡೆ ಮಾಡಿ, ಕರ್ನಾಟಕ ರಾಜ್ಯ ಪಾತ್ರದಲ್ಲಿ ಪ್ರಕಟಿಸಿರುತ್ತದೆ.

ಕೆಲವು ಆಯ್ಕೆಯಾಗದ ಅನರ್ಹ ಆಕಾಂಕ್ಷಿಗಳು ಸಲ್ಲಿಸಿದ ಅರ್ಜಿಯ ಕಾರಣದಿಂದ ಆಯ್ಕೆ ಪ್ರಕ್ರಿಯೆಗೆ ವೈಕೋರ್ಸ್ ತಡೆಯಾಜ್ಞೆ ನೀಡಿ, 2022 ರ ಫೆಬ್ರವರಿಯಲ್ಲಿ ಪ್ರಕರಣವನ್ನು ತೀರ್ಪಿಗಾಗಿ ಕಾಯ್ದಿರಿಸಲಾಗಿದೆ.

ಇತ್ತ ರಾಜ್ಯ ಸರ್ಕಾರವು ಹಾಗೂ ಕರ್ನಾಟಕ ರಾಜ್ಯ ಲೋಕಸೇವಾ ಆಯೋಗವು, ಪ್ರಕರಣವನ್ನು ತೀಘ್ರವಾಗಿ ವಿಲೇವಾರಿ ಮಾಡುವ ಕಾರ್ಯವಿಧಾನದ ಬಗ್ಗೆ ತಲೆ ಕೆಡಿಸಿಕೊಳ್ಳದೇ, ಪ್ರಕರಣ ತೀರ್ಪಿಗಾಗಿ ಕಾಯ್ದಿರಿಸಿ 8 ತಿಂಗಳು ಕಳೆದರೂ, ಪ್ರಕರಣ ಮಾನ್ಯ ಉಚ್ಚ ನ್ಯಾಯಾಲಯದಲ್ಲಿ ತೀರ್ಪಿಗಾಗಿ ಕಾಯ್ದಿರಿಸಲಾಗಿದೆ ಎಂಬ ಸಬೂಬು ಹೇಳಿ ಕೈ ತೊಳೆದುಕೊಂಡಿವೆ.

ಇತ್ತ, ಆಯ್ಕೆಗೊಂಡಿರುವ ಅರ್ಹ ಅಭ್ಯರ್ಥಿಗಳ ಭವಿಷ್ಯವೂ ಕೂಡ ಕತ್ತಲೆಗೆ ತಳ್ಳುವಂತಾಗಿದ್ದು, ಹಲವು ಅಭ್ಯರ್ಥಿಗಳು ನಿರುದ್ಯೋಗಿಗಳಾಗಿದ್ದು, ಅಂತಿಮ ಆಯ್ಕೆ ಪಟ್ಟಿಯಲ್ಲಿ ಆಯ್ಕೆಯಾಗಿರುವ ಕಾರಣದಿಂದಾಗಿ ಬೇರೆಡೆ ಉದ್ಯೋಗವೂ ದೊರಕದೇ, ವಯೋಮಿತಿ ಕೂಡ ಮೀರುವ ಆತಂಕದಲ್ಲಿ ದಿನ ಕಳೆಯುವ ಪರಿಸ್ಥಿತಿ ನಿರ್ಮಾಣವಾಗಿದೆ.

ಇದೇ ಸಮಯದಲ್ಲಿ ಹರ್ಯಾಣ ರಾಜ್ಯದ ಮೇಡನ್ ಫಾರ್ಮಸೂಟಿಕಲ್ಸ್‌ನಲ್ಲಿ ತಯಾರಾದ ಔಷಧಿಗಳನ್ನು ಸೇವಿಸಿ ಗ್ಯಾಂಬಿಯಾದಲ್ಲಿ 66 ಮಕ್ಕಳು ಮರಣಹೊಂದಿದ್ದನ್ನು ಸ್ಮರಿಸಿಕೊಂಡು, ಪರಿಸ್ಥಿತಿಯ ಗಂಭೀರತೆಯನ್ನು ಅರ್ಥ ಮಾಡಿಕೊಳ್ಳಬಹುದು.

ಮೇಡನ್ ಫಾರ್ಮಸೂಟಿಕಲ್ಸ್‌ನಲ್ಲಿ ತಯಾರಾದ ಔಷಧಿಗಳು ರಾಜ್ಯದಲ್ಲೂ ಕೂಡ ಮಾರಾಟಗೊಳ್ಳುತ್ತಿದ್ದೆಯೋ ಇಲ್ಲವೋ ಎಂಬುದನ್ನು ಕಾತ್ರಿಪ ದಿಸಿಕೊಲ್ಲಲು ಸಹ ಔಷಧ ಪರಿವೀಕ್ಷಕರಿಲ್ಲದಿರುವುದು ಅಪಾಯದ ಸಂಕೇತವೇ ಸರಿ.

ಒಟ್ಟಿನಲ್ಲಿ, ಆಯ್ಕೆಗೊಂಡಿರುವ ಅರ್ಹ ಅಭ್ಯರ್ಥಿಗಳ ಭವಿಷ್ಯದ ಜೊತೆ, ರಾಜ್ಯದ ಜನರಿಗೆ ಉತ್ತಮ ಗುಣಮಟ್ಟದ ಔಷಧಿಗಳನ್ನು ದೊರಕಿಸಿ ಕೊಡುವಲ್ಲಿ ವಿಫಲತೆಯನ್ನು ತೋರುತ್ತಿರುವ, ಜನರ ಜೀವದ ಜೊತೆ ಆಟವಾಡುತ್ತಿರುವ ರಾಜ್ಯ ಸರ್ಕಾರ, ಕರ್ನಾಟಕ ರಾಜ್ಯ ಲೋಕಸೇವಾ ಆಯೋಗ ಹಾಗೂ ಕುಂಟುತ್ತಾ ಹೆಜ್ಜೆಯಿಡುತ್ತಿರುವ ಔಷಧ ನಿಯಂತ್ರಣ ಇಲಾಖೆಯ ಕಥೆ ವ್ಯತಿಯಾಗಿರುವುದು ನಿಜಕ್ಕೂ ವಿಪರ್ಯಾಸವೇ ಸರಿ.

**ಕರ್ನಾಟಕ ರಾಜ್ಯದಲ್ಲಿರುವ ಔಷಧ ತಯಾರಿಕಾ ಘಟಕಗಳು ಸೌಂದರ್ಯವರ್ಧಕಗಳ ತಯಾರಿಕಾ ಘಟಕಗಳು ರಕ್ತ ನಿಧಿಗಳು ಮೆಡಿಕಲ್ ಶಾಪ್ ಗಳು ಹಾಗೂ ಸಗಟು ಔಷಧ ಮಾರಾಟ ಮಳಿಗೆಗಳು ರಾಜ್ಯದಲ್ಲಿ ಕರ್ತವ್ಯ ನಿರ್ವಹಿಸುತ್ತಿರುವ ಔಷಧ ಪರಿವೀಕ್ಷಕರ ಸಂಖ್ಯೆ ಖಾಲಿಯಿರುವ ಔಷಧ ಪರಿವೀಕ್ಷಕರ ಹುದ್ದೆಗಳ ಸಂಖ್ಯೆ**

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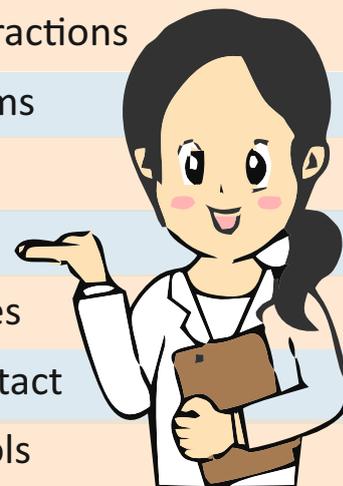
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# PHARMACIST SKILLS FOR 2021 & BEYOND

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- |                       |   |  |
|-----------------------|---|--|
| 1. ACCURACY           | - | Attention to details, read handwriting   |
| 2. INTEGRITY          | - | Proof reader- drug-drug interactions   |
| 3. ADVOCACY           | - | Patients needs, insurance claims   |
| 4. SCIENTIFIC MIND    | - | In depth knowledge on drugs  |
| 5. MATHEMATICS        | - | Correct ,right dosage  |
| 6. COMMUNICATION      | - | Local languages - chr.diseases   |
| 7. INTERPERSONAL      | - | Patience, empathy, diplomacy, tact   |
| 8. MULTITASKING       | - | Dealing with patients, protocols   |
| 9. DIPLOMACY          | - | Resolve problems & judgement   |
| 10. ANALYTICAL        | - | Logical, accountable medications   |
| 11. PRIORITISING      | - | Persons waiting for long, sick mother with baby, crying toddlers                       |
| 12. COUNSELING        | - | Patient advice, how much to take, when to take medicines, how often                    |
| 13. COMPUTER LITERACY | - | Digital, data base, consultation   |
| 14. FINANCIAL ACUMEN  | - | Competency based mentoring   |
| 15. CONSCIENTIOUSNESS | - | Adhere to professional needs, Clear moral, ethical guidelines more than prof. benefits |
| 16. ETHICS            | - | Decent, dignified helping approach always  |
| 17. PHYSICAL STAMINA  | - | Standing always, stress & strain   |
| 18. ACTIVE LISTENING  | - | Understand practical problems  |
| 19. MENTORING         | - | 1 year of Competence based learning of science about life & death                      |
| 20. MANAGEMENT        | - | Budget, stock inventories, records.  |



## SKY IS THE LIMIT

Pharmacists must have the passion to excel, burning desire to succeed, commitment and compassion to do service with technical knowledge can scale great heights of excellence in the pharmaceutical industry with great future to reach the pinnacle of glory for our great nation.



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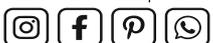


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ನೂರಾರು ಚಿಂತೆಯ ವಿಷಯ ಇದರಲ್ಲಿ ಸಂಗ್ರಹ  
ಸ್ವಚಂದದಿಂದ ಹಾರಾಡಲು ಒಂದೊಂಗಳಾಗಿ ಪ್ರಯತ್ನಿಸುತ್ತಿದೆ  
ಆದರೆ ವಿಫಲರಾಗಿ ಪಂಜರದ ಒಳಗೆಯೇ ನಡುಗುತ್ತಿದೆ  
ಹುಟ್ಟು -ಮರಣದ ನಡುವಿನ ಪ್ರಯಾಣ ಮೊದಲೇ ನಿಶ್ಚಿತ  
ಪ್ರತಿಯೊಂದು ನಿಮಿಷದ ಲೆಕ್ಕಾಚಾರ  
ಬ್ರಹ್ಮನ ಪುಸ್ತಕದಲ್ಲಿ ಮುದ್ರಿಸಿದೆ ಖಚಿತ  
ಯಾವುದಕ್ಕಾಗಿ ಮನುಷ್ಯ ಪ್ರತಿ ಗಳಿಗೆ ಕಳೆಯುವನು  
ಒಂದಲ್ಲ -ಒಂದು ಚಿಂತೆಯಿಂದ  
ಗೊತ್ತಿದ್ದು ನಮಿಂದ ಅಸಾಧ್ಯ ಅಳಿಸಲು  
ಒಂದು ಶಬ್ದ ಆ ಬ್ರಹ್ಮನ ಪುಸ್ತಕದಿಂದ  
ತಪ್ಪಿಯೂ ಎಣಿಸೋಣ ಒಂದು ವೇಳೆ ವಿಚಾರದ ಒಂದು ಪಕ್ಷಿ  
ಪಂಜರದಿಂದ ಹಾರಿ ಹೋಯಿತು  
ಅಂದರೆ ಅದೇ ತಕ್ಷಣ ಅದರ ಜಾಗ  
ಇನ್ನೊಂದು ಪಕ್ಷಿ ತೆಗೆದು ಕೊಂಡಿತು  
ಯಾರೋ ಸಲಹೆ ಕೊಟ್ಟರು ಅಲ್ಲೊಂದು  
ಋಷಿ ಮುನಿಗಳು ಇದ್ದಕ್ಕೆ ನೀಡುವರು ಪರಿಹಾರ  
ಓಡೋಡಿ ಮುಟ್ಟಿದೆ ಅವರ ಬಳಿ ಪಡೆಯಲು ದರ್ಶನ ಅವರ  
ಗುಂಪು ಗುಂಪಾಗಿ ಜನರು ಸೇರಿದ್ದರು ಅಲ್ಲಿ  
ಅವರ ಪ್ರವಚನ ಕೇಳಿ ಸುಧಾರಣೆ ತರಲು ತಮ್ಮ-ತಮ್ಮಲ್ಲಿ  
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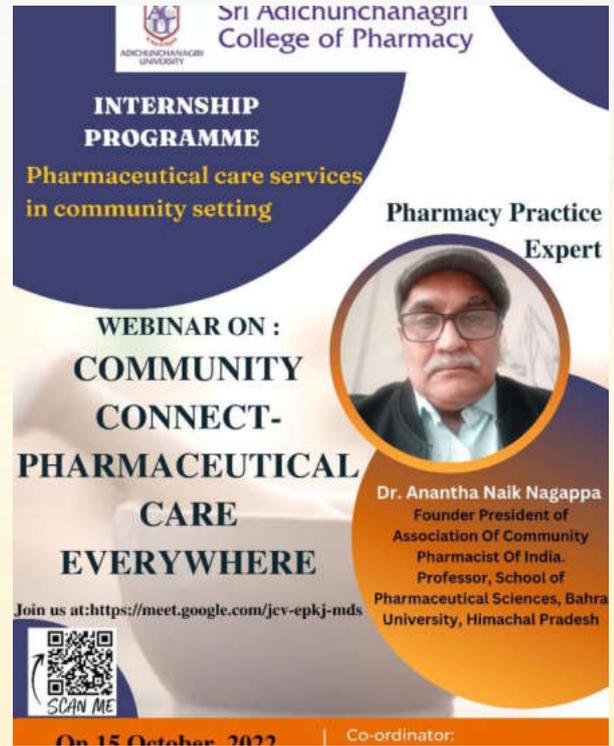
- Clinical trial management (CTM)
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- Regulatory affairs (RA)
- Medical writing (MW)
- Statistical programming – SAS
- Excel, Python and R.
- Clinical Pharmacology



Department of Pharmacy Practice organised a webinar to initiate a certificate course on **“Pharmaceutical Care Services in Community Setting”** on 15 October 2022 at Yuvalaya.

Programme was initiated with an introductory remarks by Mr Satish Kumar BP, Associate Professor, Dr Anantha Naik Nagappa, Founder and President of “Association of Community Pharmacist in India” and Dr Mahadev Bhat, Clinical Pharmacist, USA delivered a guest lecture on “Community Connect-Pharmaceutical Care Everywhere”

This was followed by an interactive session which was headed by Principal Dr B Ramesh. The session was concluded by Dr. Rajesh Venkataraman. HOD of Pharmacy Practice Department. Vote of thanks was delivered by Ms. Lohita of 5th year Pharm D Students & staff Audience enthusiastically participated in the programme.



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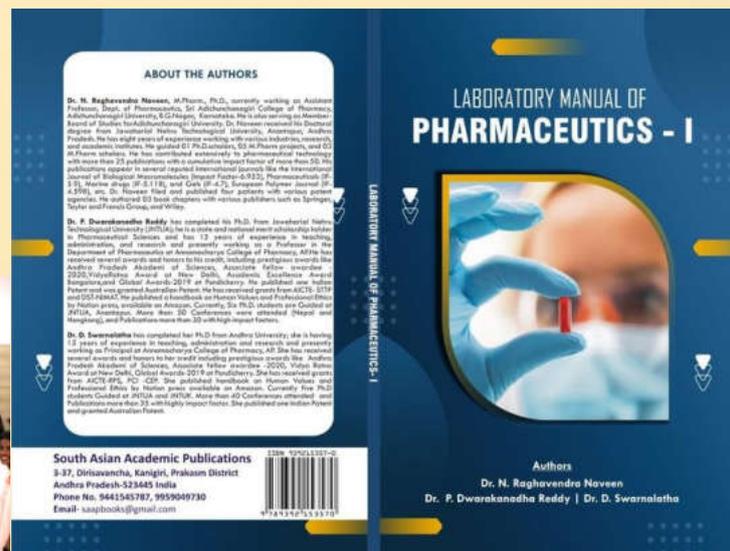
Dr. N Raghavendra Naveen, (Dept. of Pharmaceutics) has published a book entitled **\*Laboratory Manual of Pharmaceutics-I\*** by SAAP Publishers.



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## Al-Ameen College of Pharmacy, Bangalore



Industrial Visit to Embiotic Laboratories Pvt Ltd, Bangalore by the Final BPharm students of Al-Ameen College of Pharmacy, Bangalore on 28-10-2022.

Students got exposure on various Pharmaceutical Industrial process involved in Manufacturing like Tablets-IR/MR (Uncoated & Coated), dispersable tablets, wet granulation process, slugging, roller compaction, direct compression, HG capsules involving (powder & pellets), Syrups, Pediatric drops, dry syrups, ointments, creams, gels & standalone beta-lactam manufacturing facility. Students also visited R&D Dept and got knowledge on

formulation optimization, preservative efficacy studies, process development & optimization, ICH Stability studies, WIP Bulk hold studies, analytical method development & validation including packing studies.

We thank Mr. Harish Jain, Managing Director for giving permission to visit & Mr. Gopalakrishna, QA Head for providing all necessary help in showing all Industrial departments.



“National Innovation Day” was celebrated on 15th Oct-2022 by the Institution Innovation Council (IIC) of Al-Ameen College of Pharmacy, Bangalore. The National Innovation Day is celebrated to commemorate the Birth Anniversary of Former People’s President of India, Bharat Ratna Dr. APJ Abdul Kalam.

As part of National Innovation Day celebrations, Innovation Ambassadors of IIC talks were arranged. Dr. Salma Khanam, Innovation Ambassador & Vice-President, IIC, spoke to fresher students on the topic: Design, thinking and Innovation. Mr. Rakesh Panda, Innovation Ambassador & Associate Professor spoke on the topic: INNOVATION; The future of Atmanirbhar Bharat”

Poster competition was conducted on the theme: Innovation in Pharmacy after 2010. The passion & enthusiasm was very high in the participants. Their posters presented complete knowledge on the Innovation & future of pharmacy profession.





# 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 25<sup>th</sup> Nov. 2022 to this E Mail ID- krpaindia@gmail.com
5. A confirmation mail will be sent to you on receiving your e-mail.

1. \_\_\_\_\_ is the major chemical constituent present in the clove oil.
  - A. Citral
  - B. Anethol C
  - C. Eugenol
  - D. Fenchone
2. Vitali-morin test is used to identify:
  - A. Indole alkaloids
  - B. Isoquinolne alkaloids
  - C. Tropane alkaloids
  - D. Purine alkaloids
3. Clofibrate is used as \_\_\_\_\_
  - A. Lipid lowering agent
  - B. Anti-arrhythmic drug
  - C. Anti-inflammatory drug
  - D. Anti-angina drug
4. Diphenhydramine is a derivative of :
  - A. Ethylene diamine
  - B. Phenothiazines
  - C. Amino-alkyle ethers
  - D. Alkyl amines
5. SSRI useful in the treatment of pre-mature ejaculation:
  - A. Dapoxetine
  - B. Duloxetine
  - C. Venlafaxine
  - D. Sertraline
6. Etravirine is \_\_\_\_\_
  - a. Nucleoside reverse transcriptase inhibitor
  - b. Non- Nucleoside reverse transcriptase inhibitor
  - c. Integrase inhibitors
  - d. Entry inhibitors
7. Drug most likely to cause malignant hyperthermia is \_\_\_\_\_
  - A. Propofol
  - B. Ketamine
  - C. Thiopentone sodium
  - D. Halothane
8. Glucocorticoid with the least mineralocorticoid activity is \_\_\_\_\_
  - A. Deflazacort
  - B. Prednisolone
  - C. Methylprednisolone
  - D. Hydrocortisone
9. Ocular anti-inflammatory agent among the following \_\_\_\_\_
  - A. Flubiprofen
  - B. Indomethacin p-O
  - C. Mefenamic acid
  - D. Piroxicam
10. NMDA receptor antagonist useful in Alzheimer's disease is \_\_\_\_\_
  - A. Galantamine
  - B. Memantine
  - C. Donepezil
  - D. Co Dergocrine



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Telmisartan 40 mg / 80 mg +  
Hydrochlorothiazide 12.5 mg Tablets

## TELAID-<sup>®</sup>AM

Telmisartan 40 mg +  
Amlodipine 5 mg Tablets

## TELAID-<sup>®</sup>AMH

Telmisartan 40 mg + Hydrochlorothiazide 12.5 mg  
+ Amlodipine 5 mg Tablets

## TELAID-<sup>®</sup>M 50

Telmisartan 40 mg +  
Metoprolol XL 50 mg Tablets

## VOGLIAID<sup>®</sup> 0.2 0.3

Voglibose 0.2 & 0.3 Tablet

## Glitaid-20/M<sup>®</sup>

Teneligliptin 20 mg Tablet

Teneligliptin 20 mg + Metformin SR 500 mg Tablet

## Vildaid-50<sup>®</sup>

Vildagliptin 50 mg Tablets

## Vildaid-M<sup>®</sup> Tablets

Vildagliptin 50 mg + Metformin 500 mg Hcl

## Dapaid-10<sup>®</sup>

Dapagliflozin 10 mg Tablets

## Dapaid-M<sup>®</sup>

Dapagliflozin 10 mg +  
Metformin Hydrochloride 500 mg (SR) Tablets

## Geneglim<sup>®</sup> M1 M2

Glimpiride 1 mg / 2 mg + Metformin 500 mg SR Tablet

## Geneglim<sup>®</sup> M1 Forte M2 Forte

Glimpiride 1 mg / 2 mg + Metformin 1000 mg SR Tablet

## Geneglim-<sup>®</sup> MP1 MP2

Glimpiride 1 mg / 2 mg + Metformin 500 mg  
+ Pioglitazone 15 mg Tablet

### DIABETIC PORTFOLIO





# INSPIRATIONAL PHARMACIST

## MR. MURALI DIVI

### The Accidental Chemist

Murali Krishna Prasad divi, the founder of one of the most successful pharmaceutical contracting firms in the world, Divi's Laboratories. He was born into a family with relatively humble background – his father was a secretary of a Zillah Parishad (District Council) in the Krishna District of then united-Andhra Pradesh (it has since been bifurcated into Telangana & Andhra Pradesh in 2014). With 13 children, Murali being youngest among his nine brothers was not too much into studies. He himself expressed as to how his grades at school were not so good right through higher secondary. After completing his ten+2 at the Hindu High School in Machilipatnam (A.P.), he was sent to Manipal (in the state of Karnataka). What a prudent decision it proved to be. Murali joined the Bachelor of Pharmacy course at College of Pharmaceutical Sciences under the international university. He was a gold medallist for both the bachelor's and master's courses of the university. The University recognized his efforts with the "Best Student of the Tenure" award.

With his confidence so high and having turned the tables so magnificently, he now embarked on a professional journey and reached Hyderabad. There he joined a company called Warner's Hindustan Company for a monthly salary of Rs.250. He found that there was a huge demand for registered pharmacists in the United States. In that respect, he started as a chemist for a company called Fike in San Antonio, Texas. Not long after he became the superintendent of the cosmetic pharmaceutical unit. Thus, he started climbing the ladders of success one by one and, became the vice president and director not much later. His salary also went up to \$6500 per month (a whopping Rs.4.5 lakhs at the time!). In fact, he even became a member of American Institute of Chemical Engineers, American Chemical Society, American Cosmetic Society and American Pharmaceutical Association.

After having achieved what he had set out to at the time of college (at MIT, Manipal), one would think he would sit pretty and just enjoy life to its fullest. But the game was unfinished for Murali Divi. He returned India in 1980. Then he along with Anji Reddy (Dr. Kallam Anji Reddy, the founder of Dr. Reddy's – the leading pharmacy company of the country) decided to start a company, called Cheminor. They invested further into it. Regardless of the reasons, he parted ways and decided to set up his own company. Thus, he founded Divi Laboratories in 1990 at Hyderabad.

Divi's Laboratories Limited is an [Indian multinational Pharmaceuticals company](#) and producer of [active pharmaceutical ingredients](#) (APIs) and intermediates headquartered in [Hyderabad](#), Telangana, India. The company manufactures and custom synthesizes generic APIs, intermediates. The company also

manufactures and supplies [nutraceutical](#) ingredients through its subsidiary, Divi's Nutraceuticals. Divi's Laboratories is India's second most valuable [pharmaceutical](#) company by [market capitalization](#) in [pregabalin](#) and [methylamine](#) APIs. The company has six manufacturing facilities and three R&D centres across India.

In the year 2020, Murali Divi was 20th on the Forbes list of 'India's richest people'. In 2021, he ranked 384th in the Forbes list of 'India's billionaire list' with a net worth of \$ 9.8 billion. Murali K Divi was honoured with 'Best Tenure Student' in his masters. Murali K Divi was awarded as the highest-paid 'Pharma Executive' by the then President of India in 2019. Divi's is honoured to receive numerous awards/accreditations from various regulatory and statutory bodies towards manufacturing operations, environment, health and safety as well as corporate social responsibility. In 1996, Divi's was awarded as 'Best exporter of chemical products'. In 1999, first award for 'large scale manufacturers'. In 2003, was honoured by 'Vishwakarma Rashtriya Puraskar'. In 2007, 'ICC award for excellence in management'. In 2012, was honoured with Indian business leader award 'first generation entrepreneur of the year' and in 2021, Divi's was honoured with 'lifetime achievement award'.

According to Forbes, Divi's wealth has grown to \$6.8 billion. It is interesting to note that he gained half his wealth during the coronavirus outbreak – over \$3 billion. He is a standout example for showcasing entrepreneurialism as important as it is rich in life skills for entrepreneurial action and vision. Murali Divi is a person who handles the top of the company and can hold the roots of the company together. His management skills give him the confidence to achieve anything, and his knowledge, on the other hand, gives him the platform to take risks with practical possibilities. These are the foundation key ingredients that add success to his life.

With over 30 years of experience internationally in the pharmaceutical field, Murali K Divi has raised the bar of knowledge and understanding the company's management. His profession has led him to the zigzag path, but still, he was focused and determined to achieve his goals, and today he has become a billionaire businessman who is internationally recognized. From being an average student from a large family of thirteen to becoming an academic double gold medallist later on and then becoming a great student after having an experience of it in the country of dreams and founding a company that is now one of the world's leading companies – Murali Divi's life story is all in it for people who start to portray a drama on celluloid.

**Saakshi Jain**

4th B Pharm (7th semester)  
JSS College of Pharmacy,  
Mysore





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