

SNS COLLEGE OF PHARMACY AND HEALTH SCIENCES

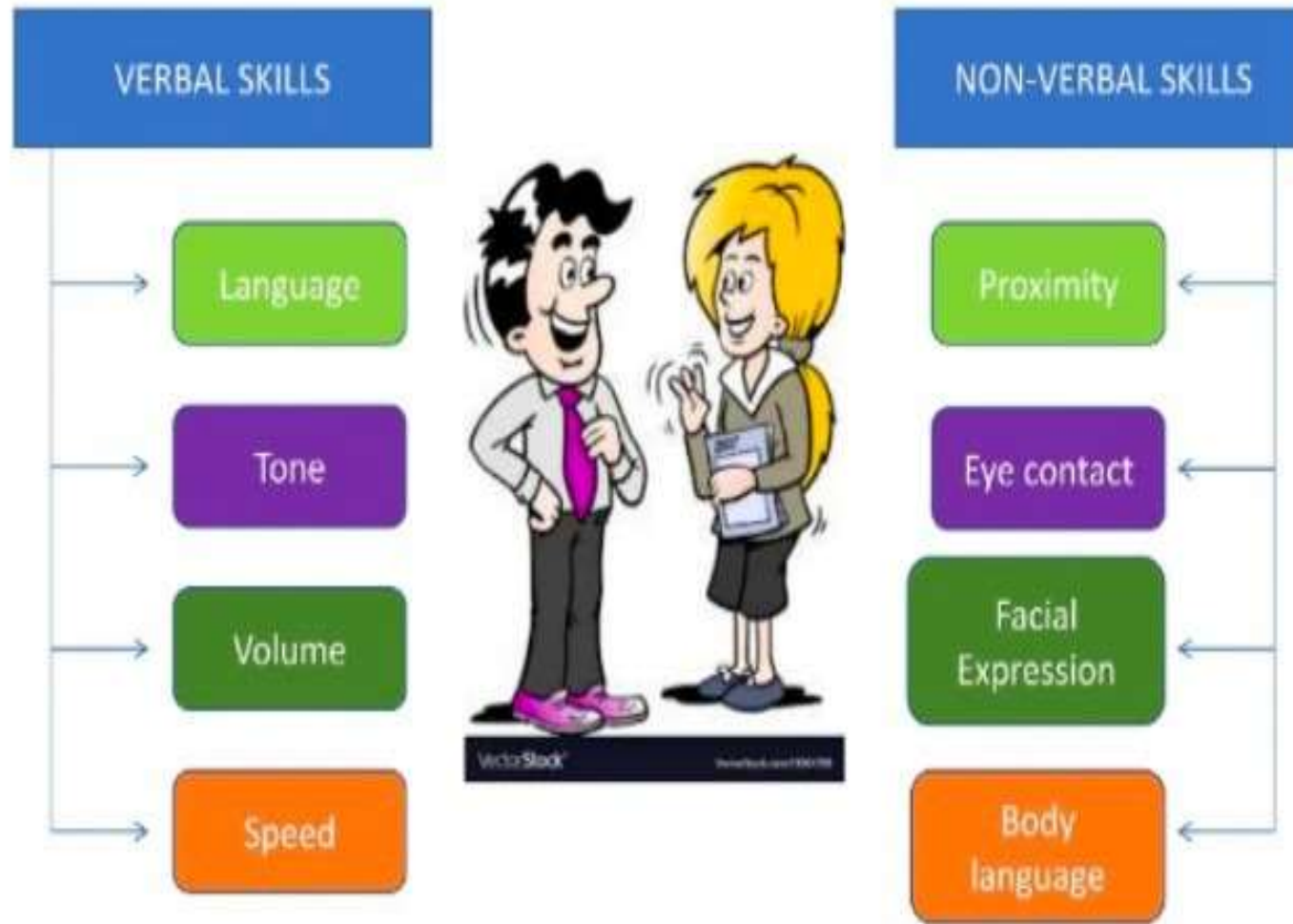


Affiliated To The Tamil Nadu Dr. MGR Medical University, Chennai
Approved by Pharmacy Council of India, New Delhi.
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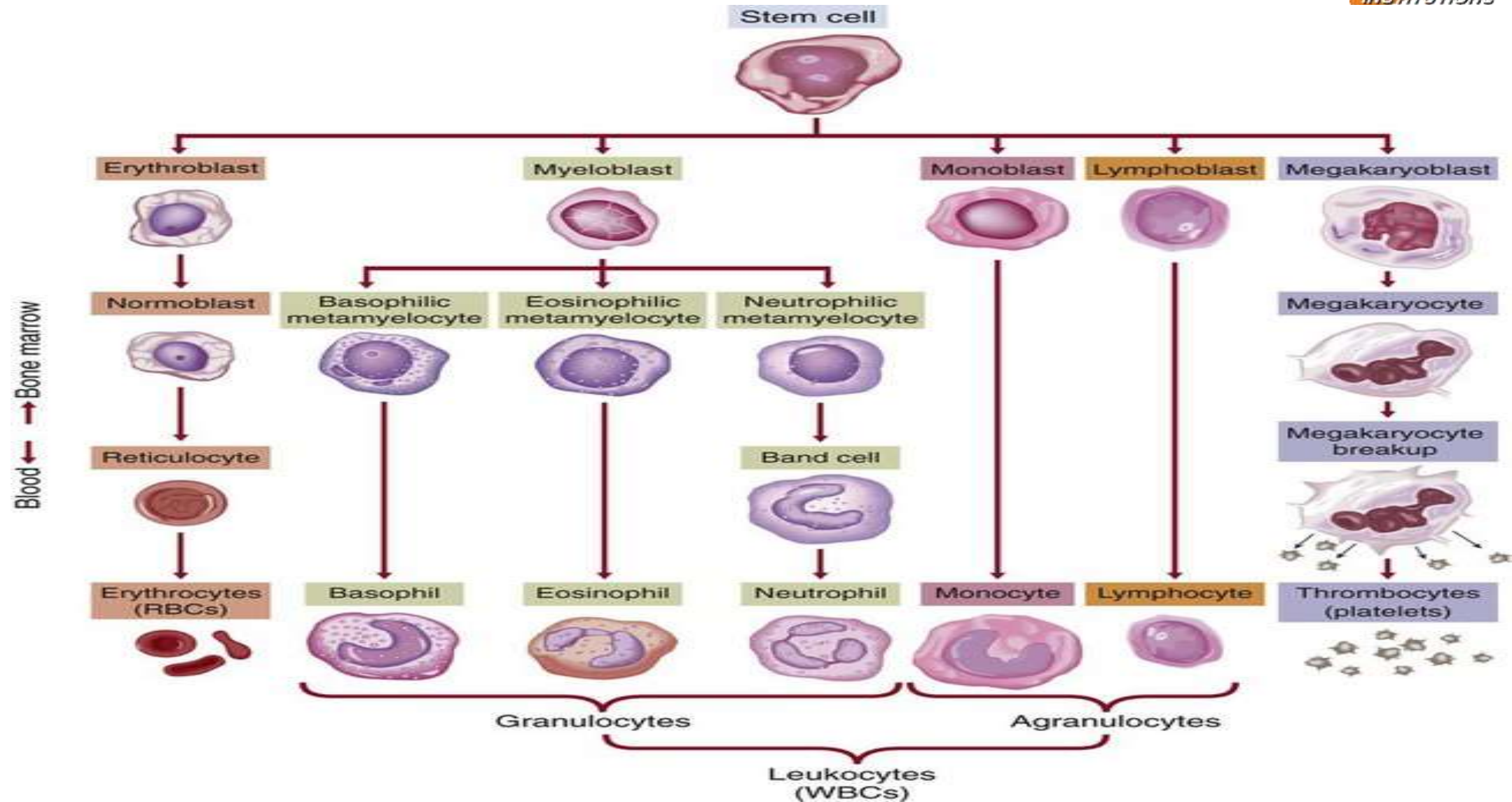
COURSE NAME : PHARMACOVIGILANCE (BP805ET)

VIII SEM / IV YEAR

TOPIC 2 : HEMATOLOGY



MINDMAP



Empathize

INTRODUCTION

HEMOTOLOGY

Blood Cells



Monocyte



Lymphocyte



Neutrophil



Eosinophil



Basophil



Macrophage



Erythrocyte

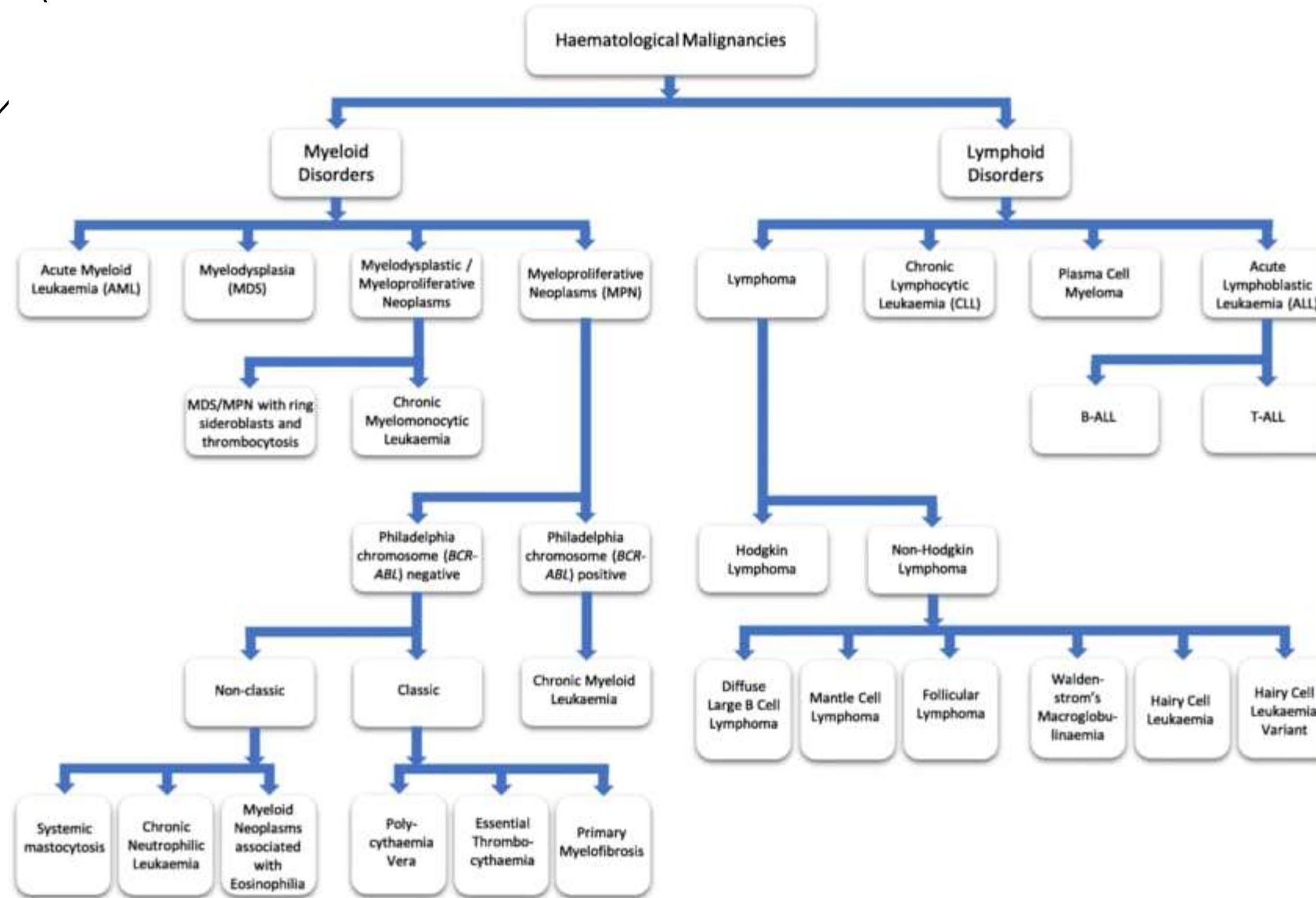


Platelets

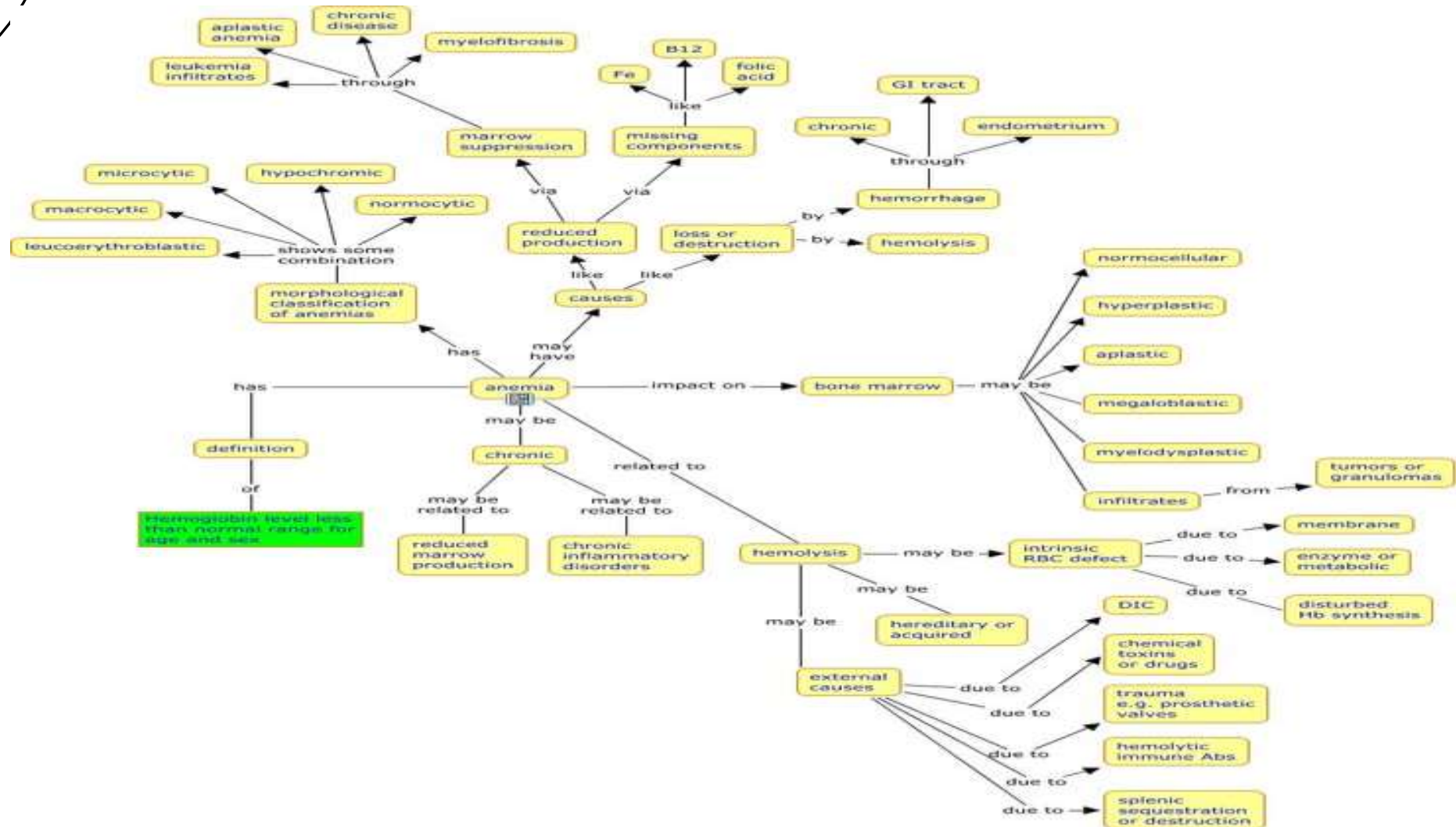
Empathize

HEMATOLOGY

Empathize

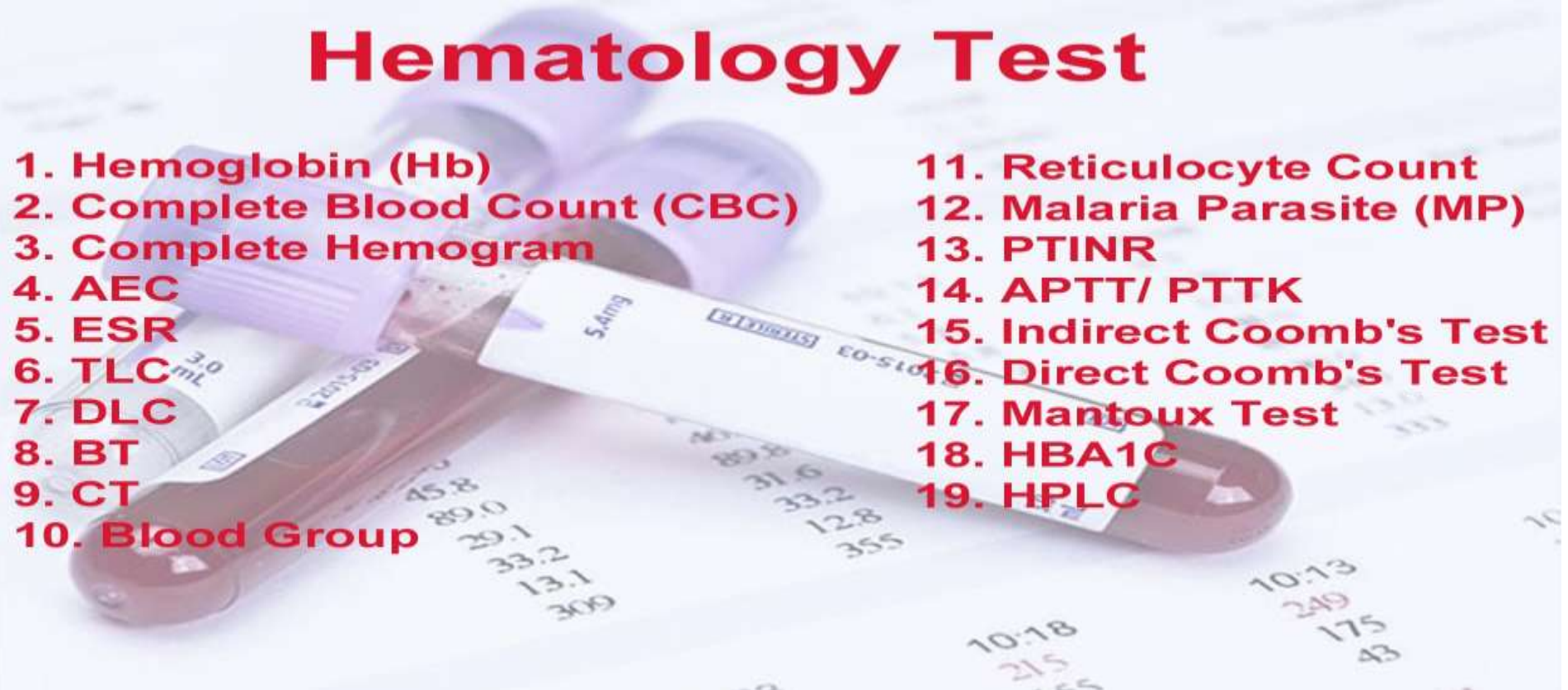


Empathize

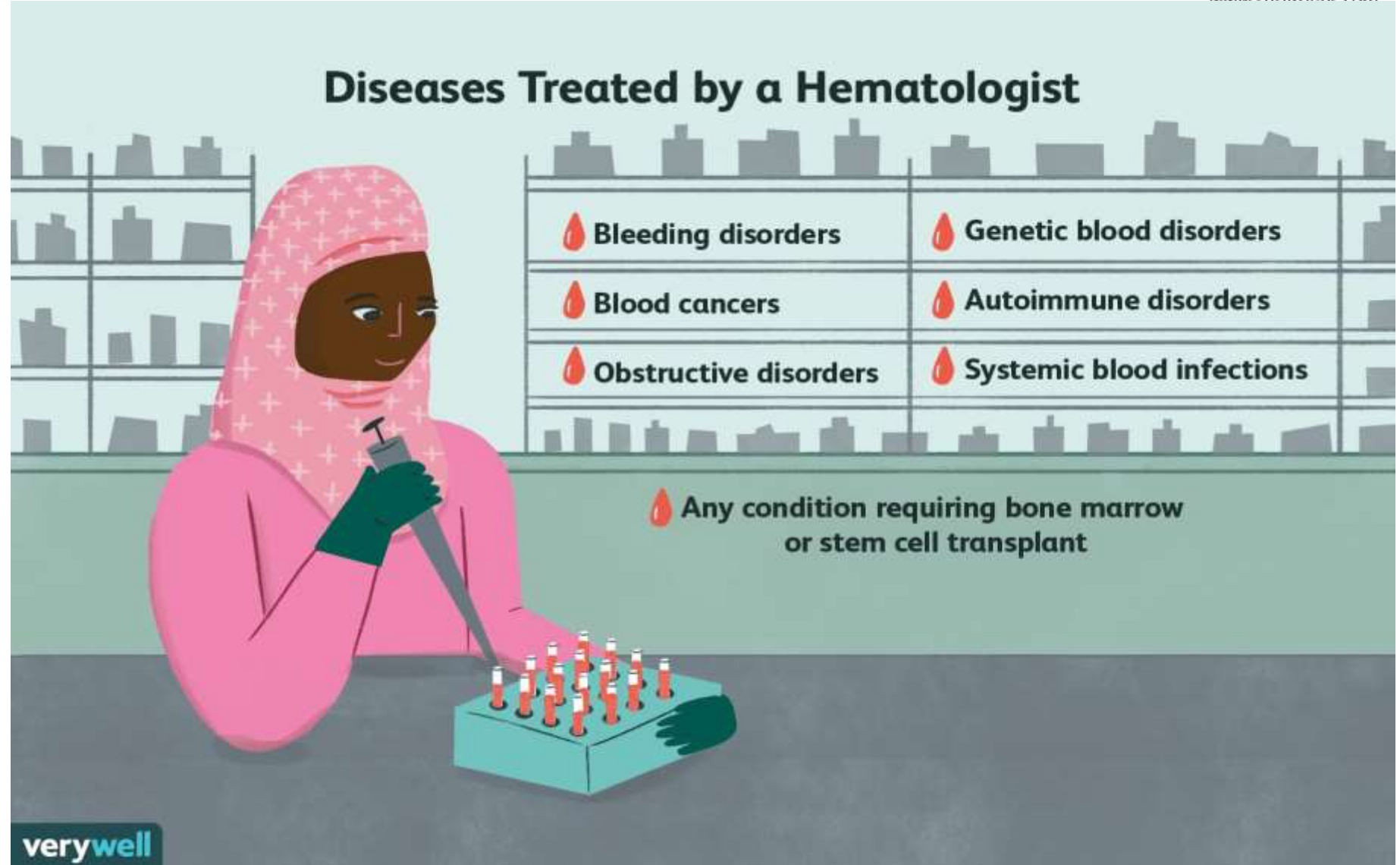


Define

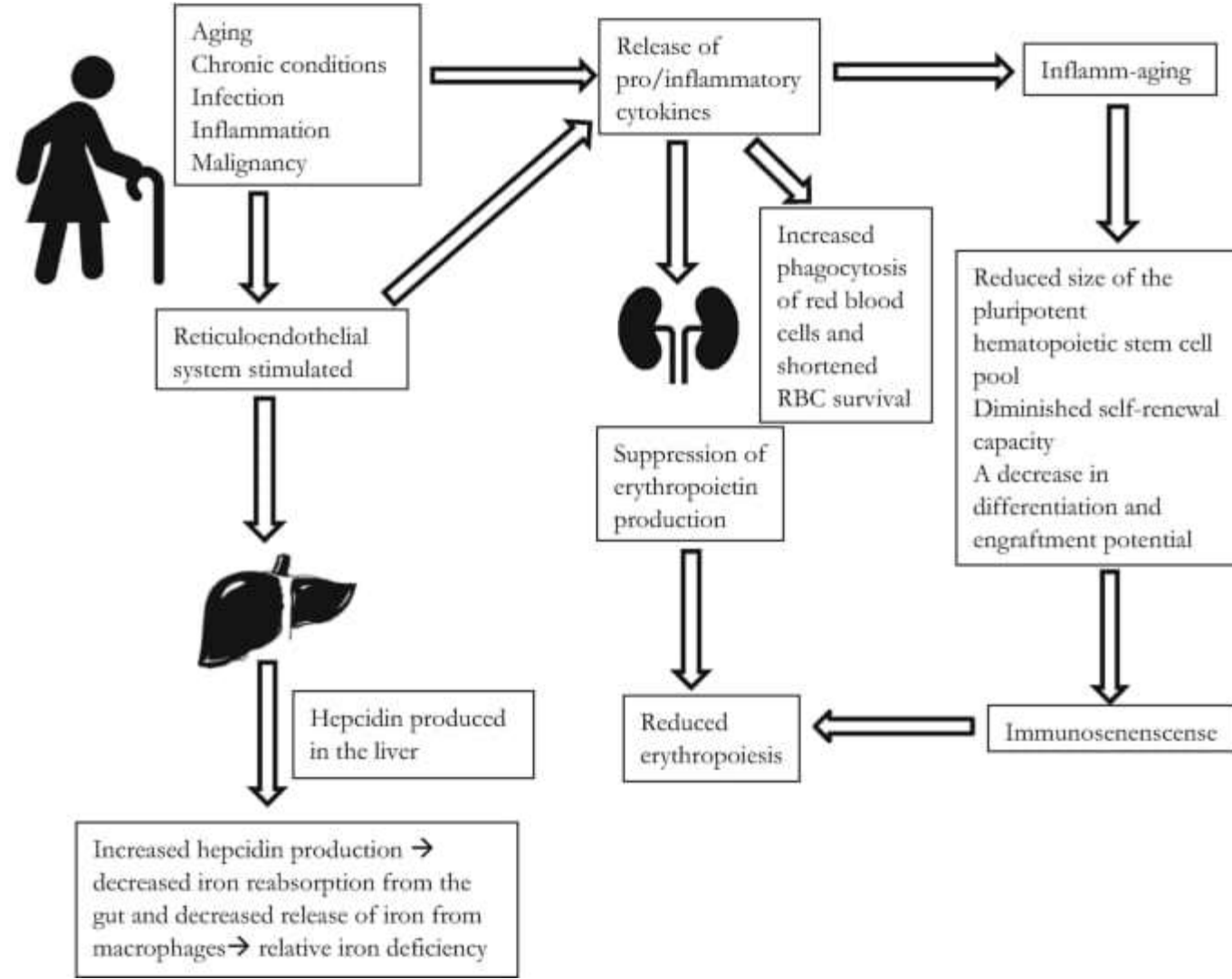
Hematology Test

- 
1. Hemoglobin (Hb)
2. Complete Blood Count (CBC)
3. Complete Hemogram
4. AEC
5. ESR
6. TLC
7. DLC
8. BT
9. CT
10. Blood Group
11. Reticulocyte Count
12. Malaria Parasite (MP)
13. PTINR
14. APTT/ PTTK
15. Indirect Coomb's Test
16. Direct Coomb's Test
17. Mantoux Test
18. HBA1C
19. HPLC

Define



Ideate



5/14

14 Best Patient Counselling Steps Guide in Healthcare

Drlogy Plus 

1. Introduction

2. Objective

3. Patient Education

4. Software

5. Benefits 

6. Techniques

7. Ideas

10 Best Patient Counselling Benefits For Hospitals & Clinics



8. Impact

9. Doctors Role

10. Medication

11. Lifestyle

12. Patient Support

13. Long Term Goal

14. Mistakes To Avoid

Prototype

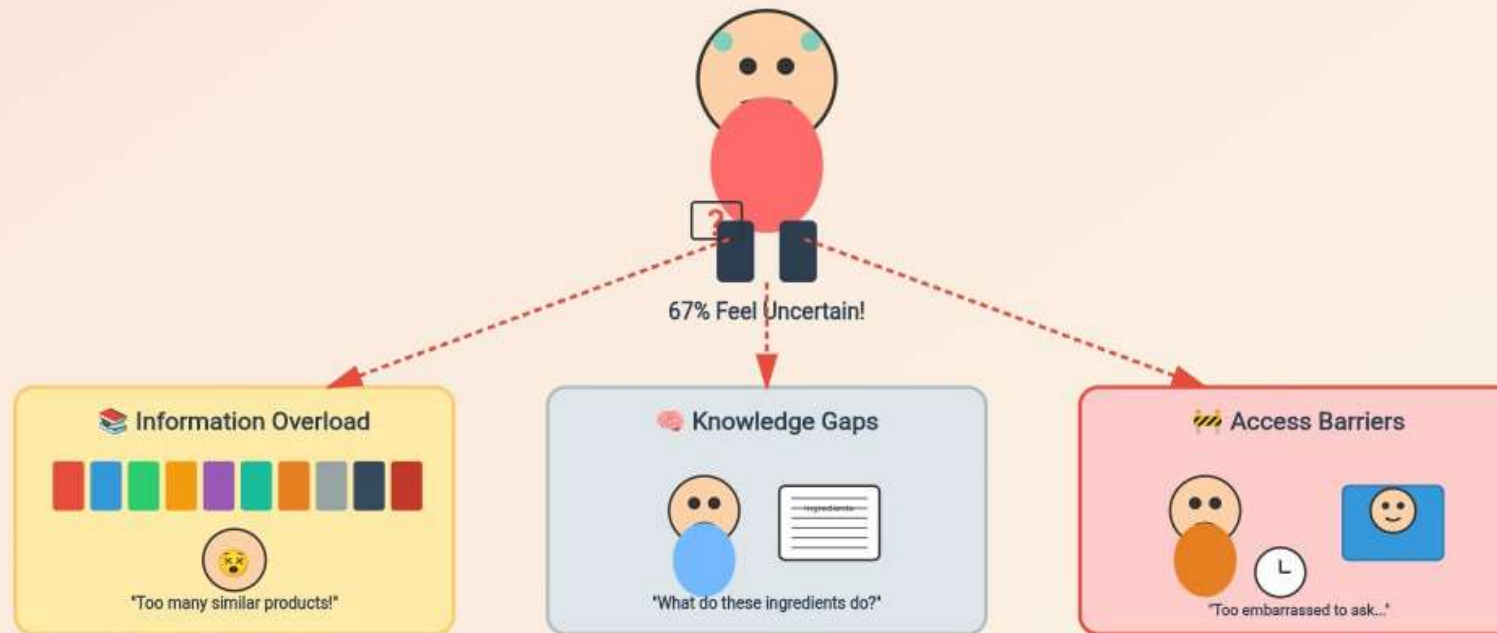






Empathize: Customer Journeys & Pain Points 🤔

Understanding the challenges customers face in pharmacy OTC sections

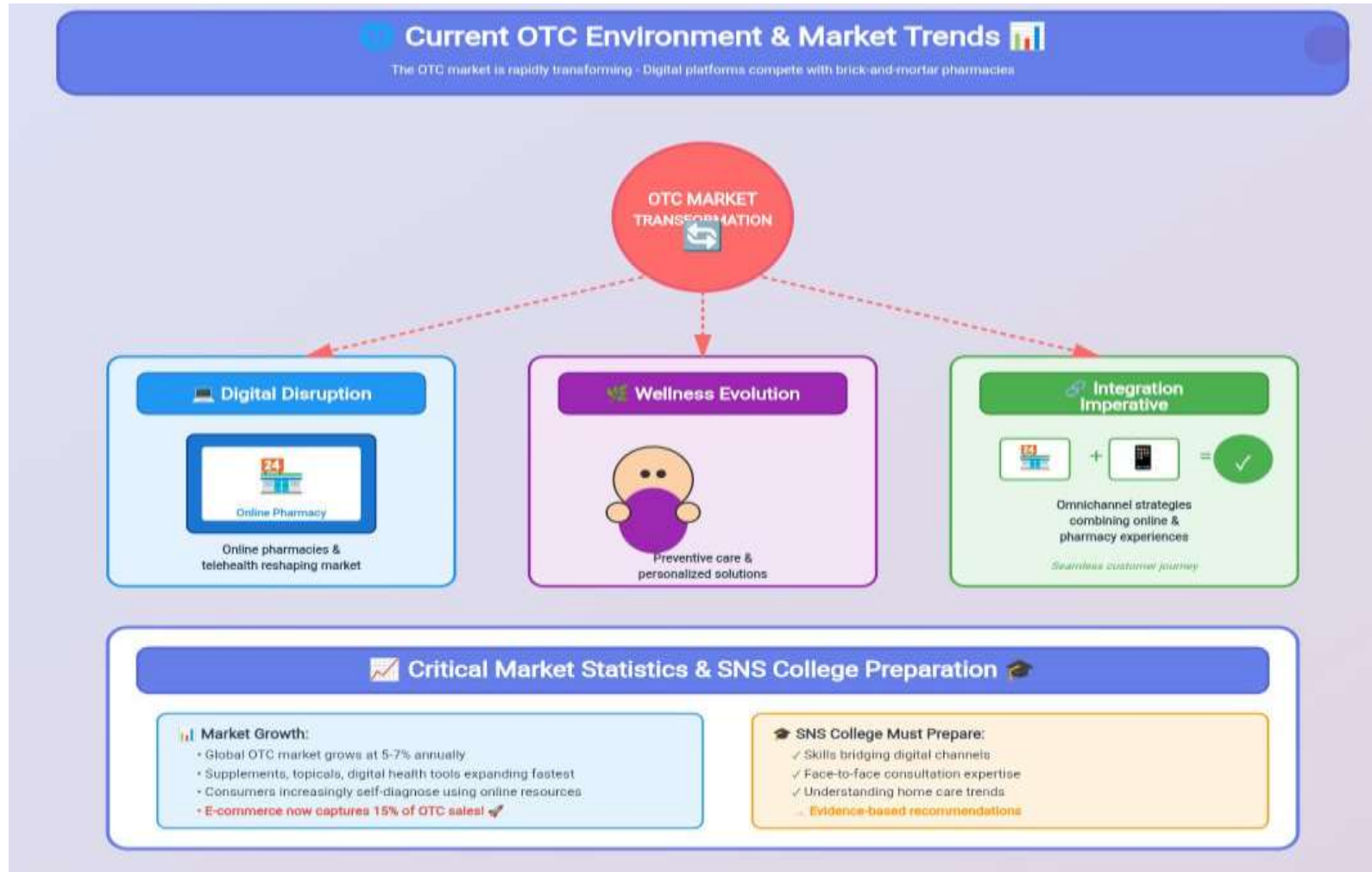


📊 Critical Research Findings 📊

67% of OTC purchasers feel uncertain about product selection

- Many avoid asking pharmacists due to time pressures or privacy concerns
- Common pain points: confusion between similar products, uncertainty about dosages
- Critical opportunity for pharmacy professionals trained in empathetic customer engagement

SUMMARY





CLASS ASSESSMENTS

1. A patient with the HLA-B*57:01 allele is prescribed abacavir. What is the most appropriate action to prevent a severe adverse drug reaction?
- a. Proceed with standard dosing and monitor liver enzymes
 - b. Avoid abacavir and select an alternative antiretroviral
 - c. Reduce abacavir dose by 50%
 - d. Add corticosteroid prophylaxis before starting abacavir



A. A. Proceed with standard dosing and monitor liver enzymes

B. B. Avoid abacavir and select an alternative antiretroviral

C. C. Reduce abacavir dose by 50%

D. D. Add corticosteroid prednisolone before starting abacavir



CLASS ASSESSMENTS

Which genotype is most associated with life-threatening skin reactions (e.g., Stevens–Johnson syndrome) when exposed to carbamazepine in certain Asian populations?

- a. TPMT poor metabolizer
- b. HLA-B*15:02 positive
- c. CYP2D6 ultrarapid metabolizer
- d. VKORC1 -1639G→A variant



Genotypes & Skin Reactions: Exploring Carbamazepine Risk

Based on risk of Stevens-Johnson Syndrome in Asian Populations

A.



TPMT Poor
Metabolizer

B.



HLA-B*15:02
Positive

C.



CYP206 Ultrapid
Metabolizer

D.



D. VKORC1 -1639G→A
Variant



CLASS ASSESSMENTS



A patient with reduced TPMT and NUDT15 activity is starting thiopurine therapy (e.g., mercaptopurine). What adverse reaction risk is increased and how should therapy be adjusted?

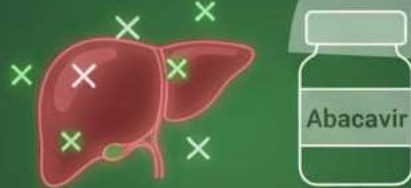
- a. Increased hepatotoxicity; switch to abacavir
- b. Increased myelosuppression; consider profound dose reduction or alternative therapy
- c. Increased nephrotoxicity; add dose-dependent hydration
- d. Increased cardiotoxicity; monitor with baseline echocardiogram





CLASS ASSESSMENTS

A.



**A. Increased Hepatotoxicity:
Switch to Abacavir**

B.



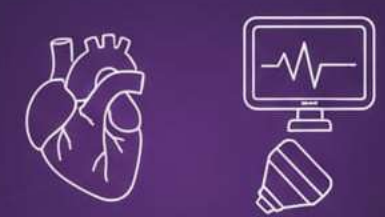
**B. Increased Myelosuppression:
Consider Profound D.Reduction or
or Alternative Therapy**

C.



**C. Increased Nephtotoxcity:
Add Dose-Dependent Hydration**

D.



**D. Increased Cardiotoxcity:
Monitor with Baseline Echoodogram**

REFERENCES

1. Merchant S.H. and Dr. J.S.Quadry. A textbook of hospital pharmacy, 4th ed. Ahmadabad: B.S. Shah Prakakshan; 2001.
2. Parthasarathi G, Karin Nyfort-Hansen, Milap C Nahata. A textbook of Clinical Pharmacy Practice-essential concepts and skills, 1st ed. Chennai: Orient Longman Private Limited; 2004.
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Thank
you!