



RBC

- Main component of blood
- **Life span** – 120 DAYS

3 AREAS TO CONSIDER TO EXPAND THE RBC SURVIVAL

1. Normal chemical composition of RBC
2. Hemoglobin function and structure
3. RBC metabolism

⚡ Defects in any or all of these areas will result in RBCs surviving fewer than the normal 120 days in circulation.

RBC MEMBRANE

1. **PROTEIN** major component of RBC membrane

2 TYPES OF PROTEIN

Peripheral Protein	Integral Protein
a) Ankyrin	a) Glycophorin A
b) Spectrin	b) Glycophorin B
c) Actin	c) Glycophorin C

2. CARBOHYDRATES

3. LIPIDS

RBC DEFORMABILITY

- Ability to be flexible
- Maintain biconcave disc shape

⚡ $\downarrow$ ATP $\rightarrow$ $\downarrow$ spectrin $\rightarrow$ loss of deformability of RBC = $\downarrow$ RBC survival



RBC PERMEABILITY

- Regulates intracellular and extracellular activity in Na and K
- Permeable with water and anions

⚡ $\downarrow$ ATP $\rightarrow$ Loss of permeability $\rightarrow$ decrease regulation of Na and K intracellular and extracellular activity $\rightarrow$ dehydration of RBC = $\downarrow$ RBC survival

MATURE ERYTHROCYTE

- a.k.a **Red Blood Cells** (RBCs), 120 days, 6-8 μ m
- No nucleus and mitochondria

GLYCOLYSIS

- energy source of RBC
- breaks down glucose to convert it as ATP/energy

FOUR METABOLIC PATHWAYS OF RBC

1. Embden-Meyerhof Pathway

- End product: **Pyruvate** ☆
- most energy of RBC comes from this pathway
- maintains the shape and deformability of RBC

1 glucose = 4 ATP ☆

Glucose $\xrightarrow{2\text{ ATP}}$ Pyruvate

- Affects patients with **PK Deficiency** (pyruvate kinase deficiency) – cannot convert glucose to pyruvate

2. Hexose Monophosphate Shunt Pathway

- End product: **NADH** (nicotinamide adenine dinucleotide + hydrogen)

Blood Banking Study Guide

RC Schank



Blood Banking Study Guide:

Specialist in Blood Banking Virginia Hughes, 2016-07-01 Review book for Specialist in Blood Banking

Immunohematology & Blood Banking National Learning Corporation, 2020-03-15 **Specialist in Blood Banking**
Virginia Hughes, 2014-05-20 review book for the specialist in blood banking examination **Immunohematology & Blood**

Banking National Learning Corporation, 2018 The Test Your Knowledge Series asks What Do You Know About a various subjects or areas of personal interest **Phlebotomy (Speedy Study Guides)** Speedy Publishing, 2014-06-21 Phlebotomy refers to the process of puncturing a vein and extracting blood A phlebotomy reference guide that contained diagrams of the major veins would be very helpful to anyone who is planning to pursue a career in a health medical field Learning how much blood is needed for each test and what the different colored test tubes are used for would also be an easier task when you could refer to a guidebook This type of resource could also be used for teaching or independent studies **Specialist in**

Blood Banking Study Guide 5th Ed Virginia C. Hughes, 2018-12-28 This book contains discussions case studies and over 450 questions on human blood groups donation practices blood component therapy transfusion reactions medicolegal issues hemostasis genetics molecular biology hemolytic disease of the fetus and newborn calculations and serological problems

Blood Banking Principles Review Book Bernard Pirofsky, Anne V. August, Helen M. Nelson, 1973 **Medical**
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