



## 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  $\mu$ 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

**Timothy Powers**



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