

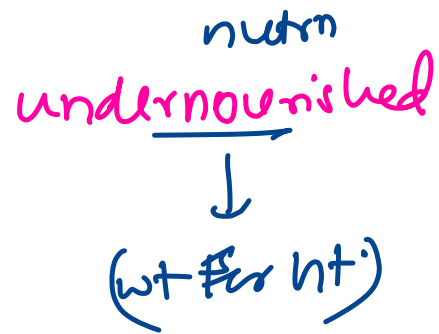
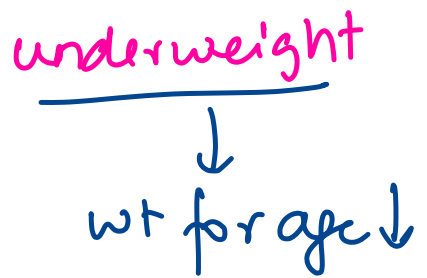
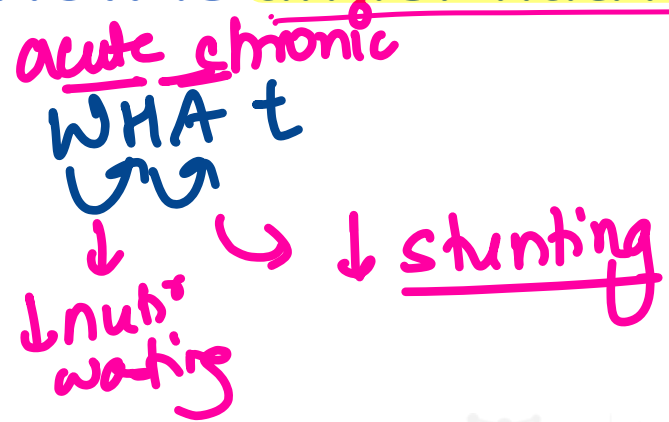


PEDIATRICS AIIMS PYQ

Medsynapse by Dr. Nikita



How is under-nutrition defined?



- a) Weight for age < -2 SD → underwt
- b) Weight for height < -2 SD
- c) Weight for age < -3 SD
- d) Weight for height < -3 SD
- } severe → < -3SD

SAM → WH → < -3SD
 WHO → WHAT



A 1-month-old child presented with conjugated bilirubinemia and intrahepatic cholestasis. On Liver biopsy staining with **PAS** red colored granules were seen inside the hepatocytes. Probable diagnosis is:

Liver → PAS +
↓ - diastase resistant

a) Congenital hepatic fibrosis

b) Wilson's disease

* **c) Alpha-1 antitrypsin deficiency**

d) Hemochromatosis

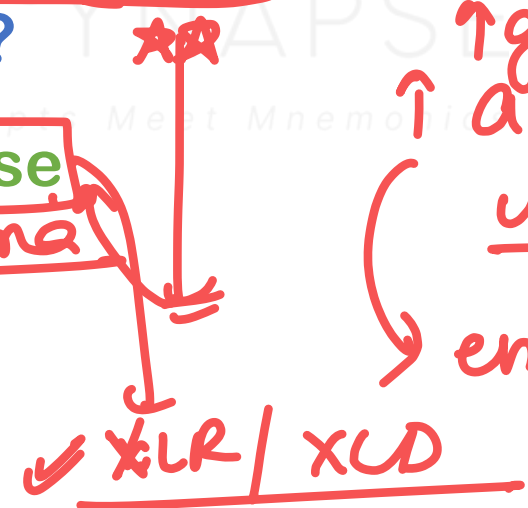
• chrom. 14
• lung → panacinar emphysema.



An infant at 7 months of age presented with history of vomiting and failure to thrive. Patient improved with administration of intravenous glucose and came out of coma within 24 hours. After one month he returned with similar complaints. On evaluation he is found to have raised blood ammonia and No ketones. Also, he has high urinary glutamine, alanine and uracil. Which is the likely enzyme defect in this patient?

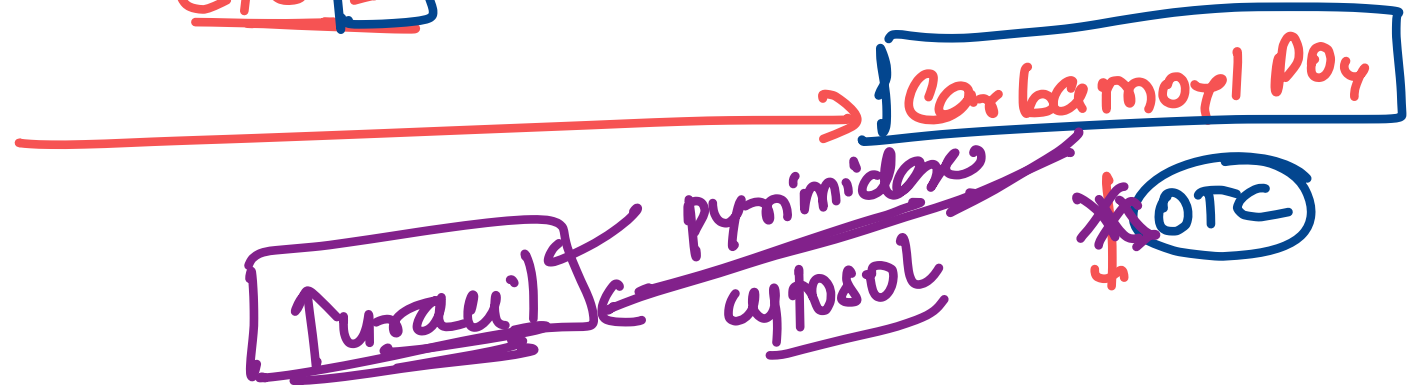
- a) Ornithine transcarbamoylase
- b) CPS1
- c) Arginase
- d) Argininosuccinate lyase

Orni aciduria



*↑ glutamine, alanine
↑ ammonia →
urea defect
encephalopathy*

ureaaaa
CPS 1 → mitochondrial.



OTC
✓ orotic aciduria



In a child, surgery was done for biliary stricture with hepatojejunal anastomosis. Postoperative bilirubin level after 2 weeks was 6 mg/dL from a preoperative level 12mg/dL. The reason for this could be:

12 → 6mg↑

a) Normal lowering of bilirubin takes time

b) Anastomotic stricture

✓ c) **Delta bilirubin** → ^{conj} bilirubin

d) Mistake in lab technique

~~jud.~~
bound to albumin ★★
∴ not excreted in urine
∴ slow clearing



A 2-year-old child with fever and barking cough for last 2 days presented to the pediatric emergency at 2.30 am. On examination, respiratory rate is 36/ min, temperature of 39 °C and stridor heard only on crying. No other abnormality is found. What is the next best step in management?

mild

- a) High-dose dexamethasone → all severity
- b) Racemic epinephrine nebulization → mod to severe
- c) Reassurance x
- d) Intravenous antibiotics x

• croup / LTB
airway cough (+)
• viral
• No antibiotics
Supportive
dixa — epineph

xray → steeple sign



Milk is deficient in:

Bone DK.
vit D, K vit B12

sow milk → iron ↓
goat milk - iron ↑

- ✓ a. Iron and vitamin C
- b. Iron and vitamin A
- c. Phosphorus and vitamin A
- d. Saturated fats



All of these are criteria for severe acute malnutrition in a 6-month-old child except:

< -3SD ↓
wasting
Wt for ht

any one < 5yr

→ age indep

a. Mid-upper arm circumference → < 11.5cm (shakeri tape)

b. Symmetrical edema → pedal

c. Weight for height < -3SD

d. Height for age → ↓ stunting → chronic malnut'n



A 3.5 kg male infant born at term ^{x RDS} after an uncomplicated pregnancy and delivery develops respiratory distress shortly after birth and requires mechanical ventilation. The chest radiograph reveals a normal cardiothymic silhouette but a diffuse ground glass appearance to the lung fields. Surfactant replacement fails to improve gas exchange. Over the first week life, the hypoxemia worsens. Results of routine culture and echocardiographic findings are negative. A term female sibling died at 1 month of age with respiratory distress. Which of the following is the most likely diagnosis?

- a) Neonatal pulmonary alveolar proteinosis → surfactant cannot act.
- b) Meconium aspiration → post term, patchy opacities
- c) Total anomalous pulmonary venous return xy → fig of 8 heart
- d) Disseminated herpes simplex infection

HRCT → Crazy pavement
• Bat wing ~ pulm edema.



In a child with tetralogy of Fallot with fever and diarrhea, which of the following is the surest sign of a cyanotic spell?

tet spell.
 → hypovolemia / ↑ crying

cyanotic (all Ts)

cyanotic → ↓ pulm blood flow
 → pulm constriction
RVOT ↑ resist

- a. Hepatomegaly
- b. S3 gallop rhythm
- c. Arterial oxygen saturation of less than 75%

d. Absence of murmur (PS) → pulm stenosis
 ∴ no flow across pulm valve.

Rx → squatting → ↑ PVR - ↑ LV
knee chest posⁿ



A child who was normal at birth develops chronic liver failure and muscle weakness at 3 months of age. On investigations, serum glucose is low, along with ketoacidosis and decreased pH. ALT and AST are raised. Blood lactate and uric acid levels are normal. Intravenous glucagon given after meals raises the blood glucose levels, but does not raise glucose when given after an overnight fast. Liver biopsy shows increased glycogen in liver. Which is the enzyme likely to be defective in this child?

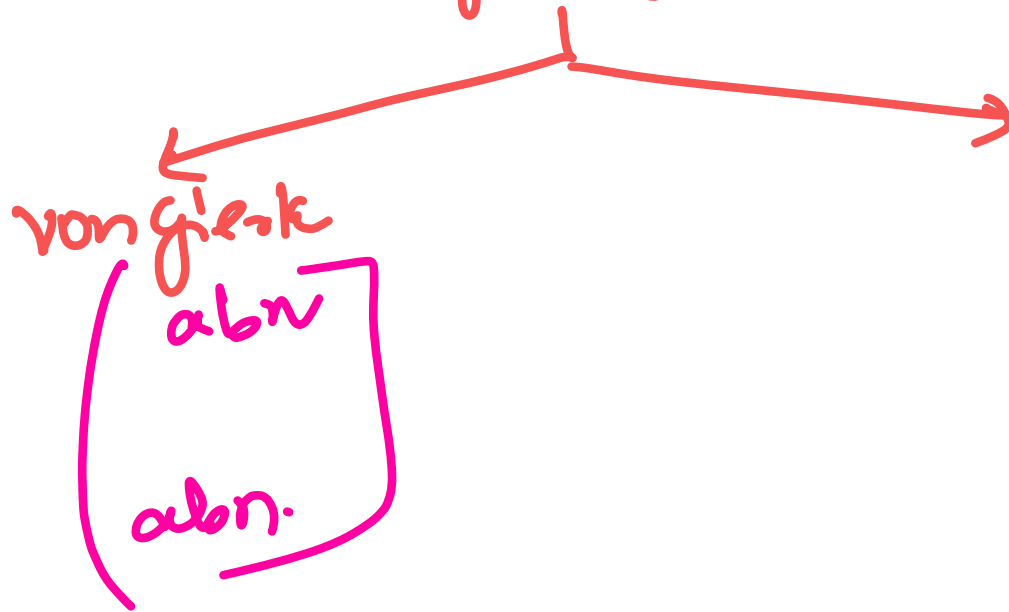
- a. Glucose-6-phosphatase
- b. Muscle phosphorylase
- c. Branching enzyme
- d. Debranching enzyme

→ von Gierke A B CD

↑ in von Gierke (Wong)

✓ Debranching enzyme → Cori's / limit dextrinosis
↳ liver
↳ muscle - heart

★ glucagon



o fed
o fastig

Con^o

Liver ↙

• (N)

(abn)



A 5 years old child presented with continuous fever and features of sepsis with a BP of 90/60 mm Hg, Pulse rate ~~144~~/min and respiratory rate of 30/min. What is the initial fluid of choice for management?

- a. 10 mL/kg of 10% dextrose ✗
- b. 10 mL/kg of hydroxyethyl starch
- c. 20 mL/kg of 0.45% normal saline ✗
- ✓ d. 20 mL/kg of 0.9% normal saline

• septic shock /
hypovolemic

Rx → volume
NS ←
isotonic
0.9% NS.

Q SAM \bar{c} shock \longrightarrow
 \downarrow
(Dextrose + RL)
quicker, electrolytes, volume.

Q only shock \rightarrow NS
Buens \rightarrow RL.