

وسهلا



أهلا

يُمنع أخذ السلايدات بدون
إذن المحرر واي اجراء
يخالف ذلك يقع تحت طائلة
المسؤولية القانونية
جميع المعلومات للاستخدام
التعليمي فقط

الأستاذ الدكتور يوسف حسين

رئيس قسم التشريح والأنسجة والأجنة

كلية الطب - جامعة مؤتة - الأردن

دكتورة من جامعة كولونيا المانيا

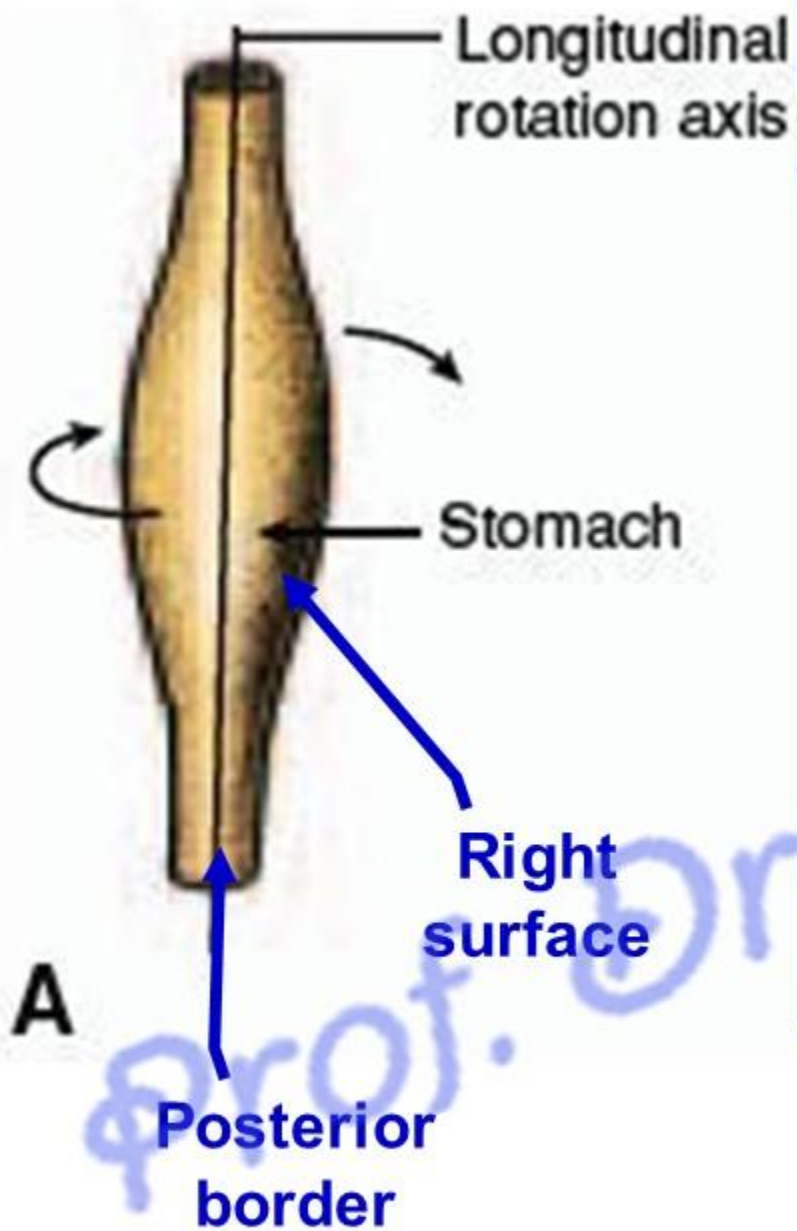
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Development of Stomach

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- It appears as a **fusiform dilatation** having **2 surfaces** (right and left) and **2 borders** (anterior and posterior).

- It is connected to anterior abdominal wall by **ventral mesogastrium** and posterior abdominal wall by **dorsal mesogastrium**

**** Changes during Development:**

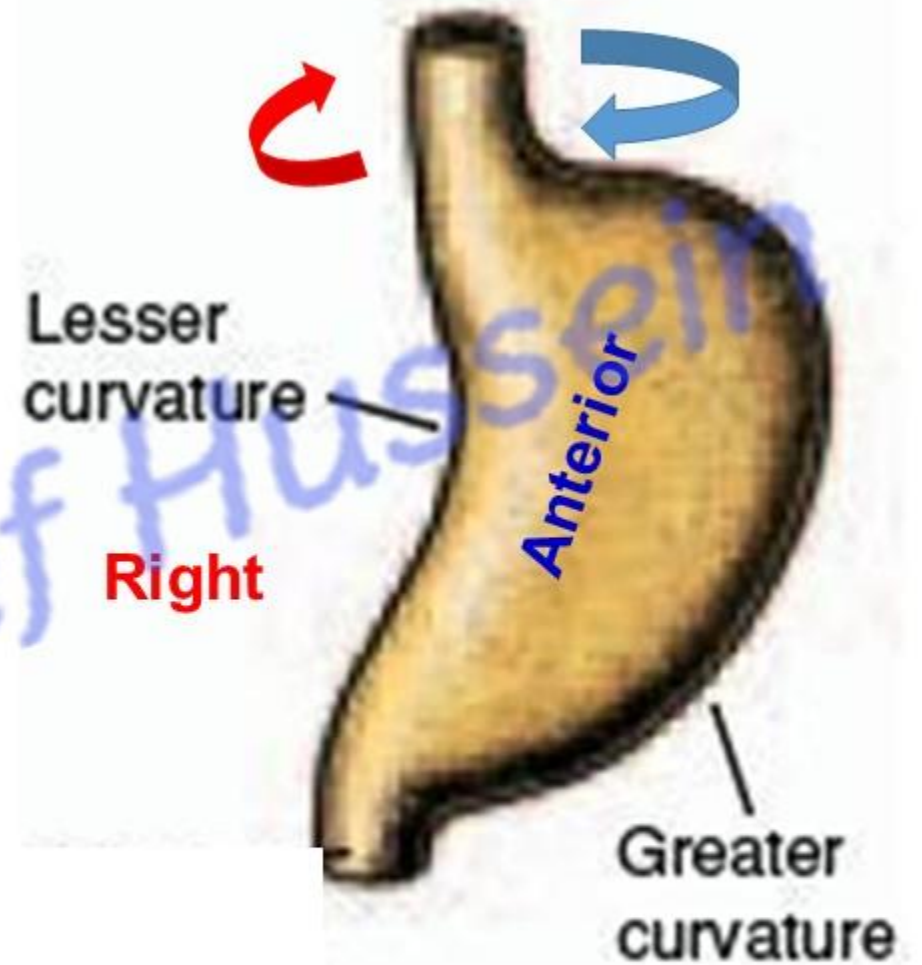
1- Posterior border grows faster than anterior border and becomes convex forming **greater curvature**.

2- Anterior border grows slowly and becomes concave to form the **lesser curvature**.

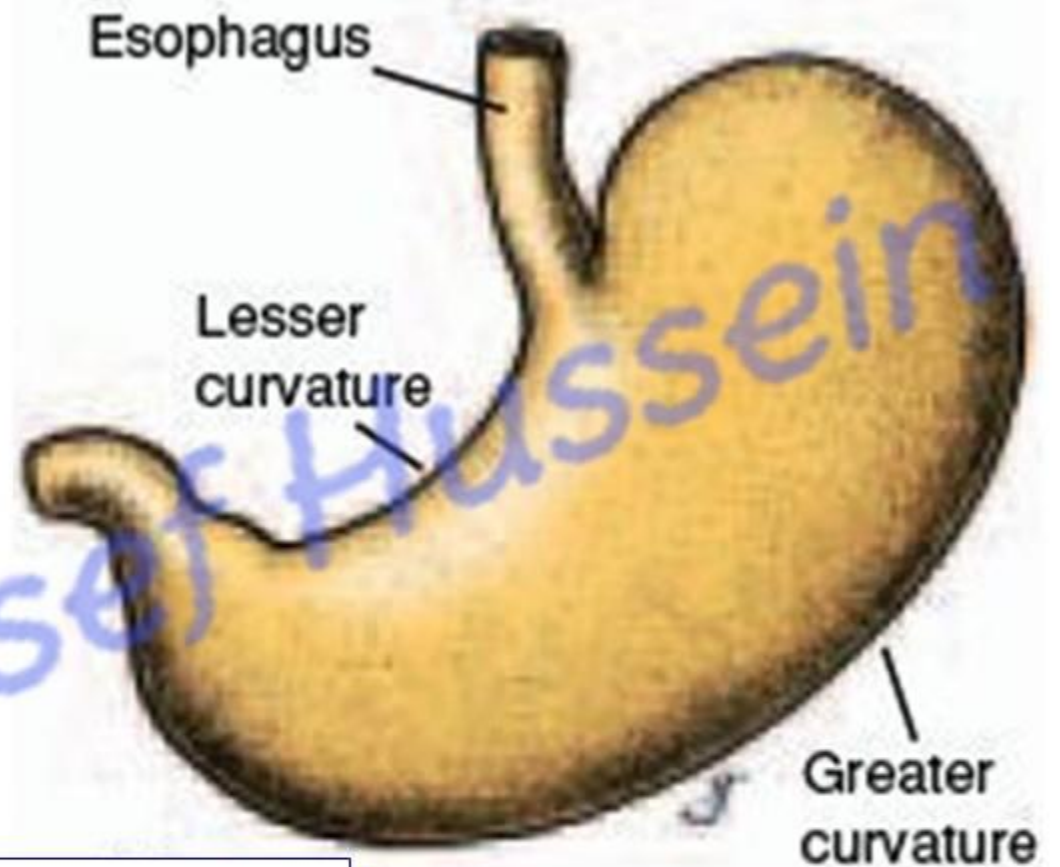
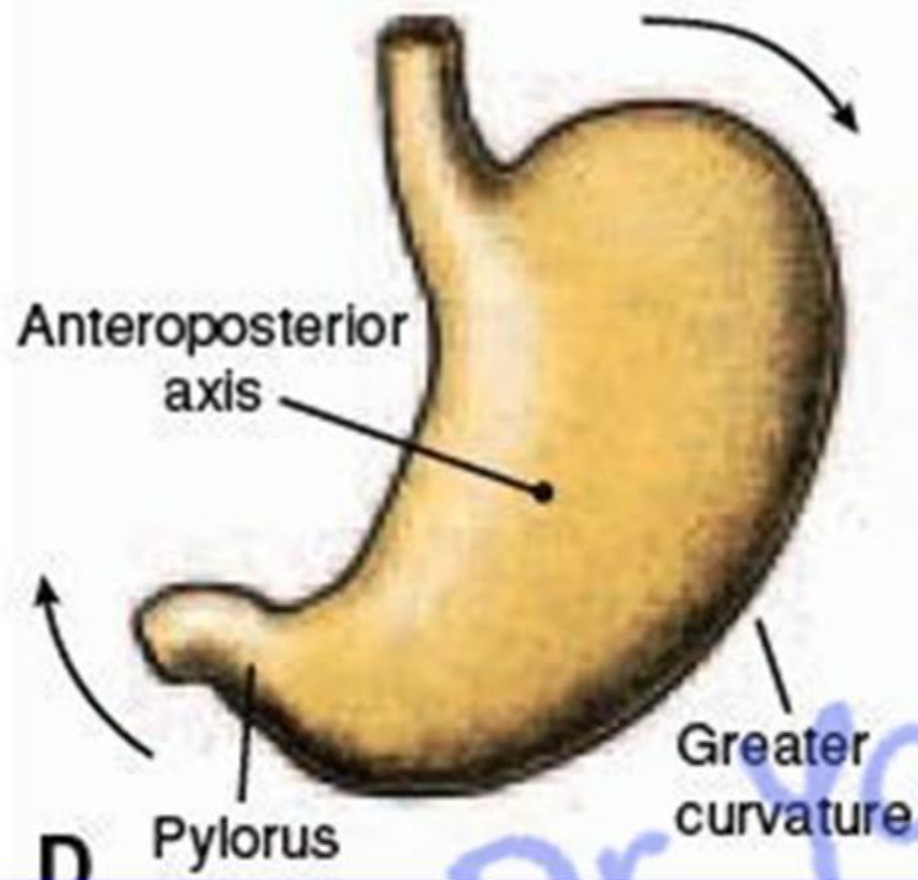
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** Rotation of the stomach:

- The stomach **rotates 90° with clockwise** around the vertical axis.
- 1- The **greater** curvature is directed to the **left** and the **lesser** curvature to the **right**.
- 2- The **left** surface become **anterior** and **right** surfaces become **posterior**.
- 3- A small recess of the peritoneal cavity is formed behind the stomach forming the **lesser sac**.

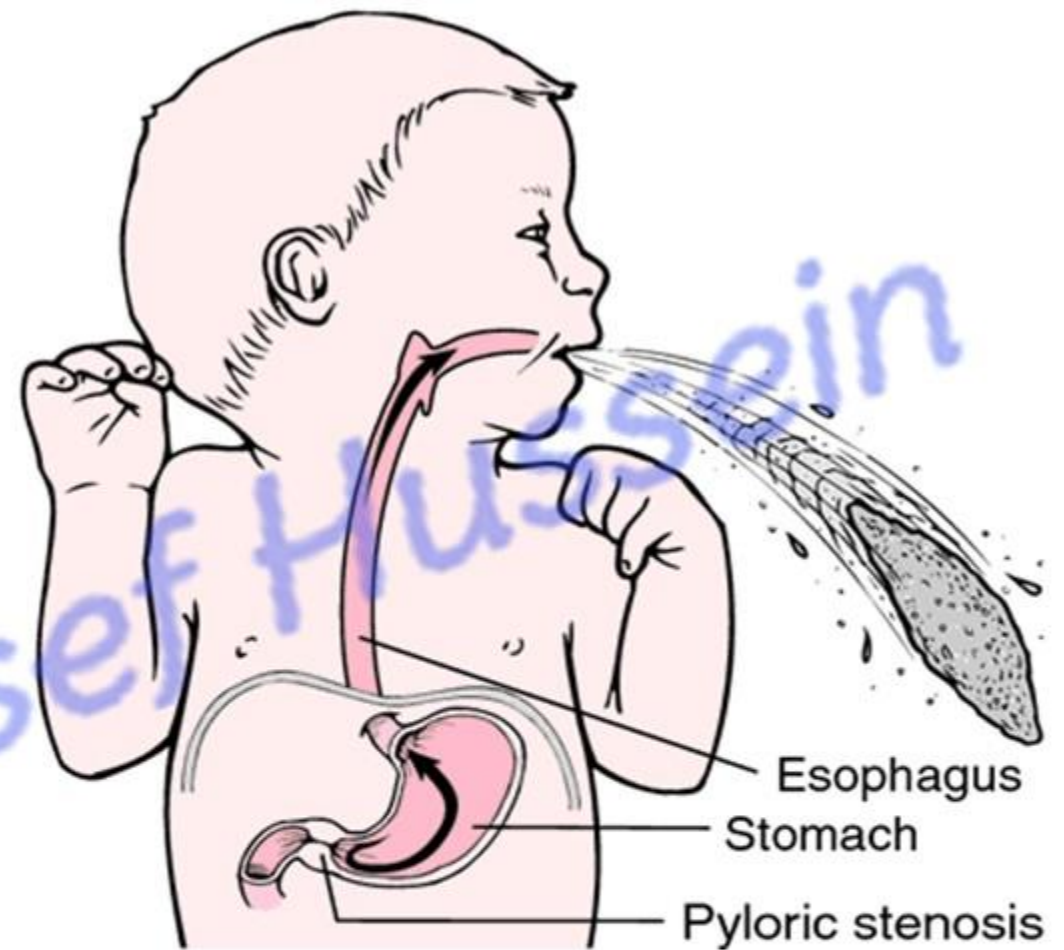


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- Stomach **rotates with clockwise** around **anteroposterior axis** due to **Growth** of the **liver** pushes **cranial** end of the stomach to the **left** of the median and **caudal** end to the **right** of median plane.

Congenital pyloric stenosis



Congenital pyloric stenosis: due to excessive hypertrophy (**thickening of circular muscles**) of pylorus

- It leads to pyloric obstruction and projecting vomiting in the new born.

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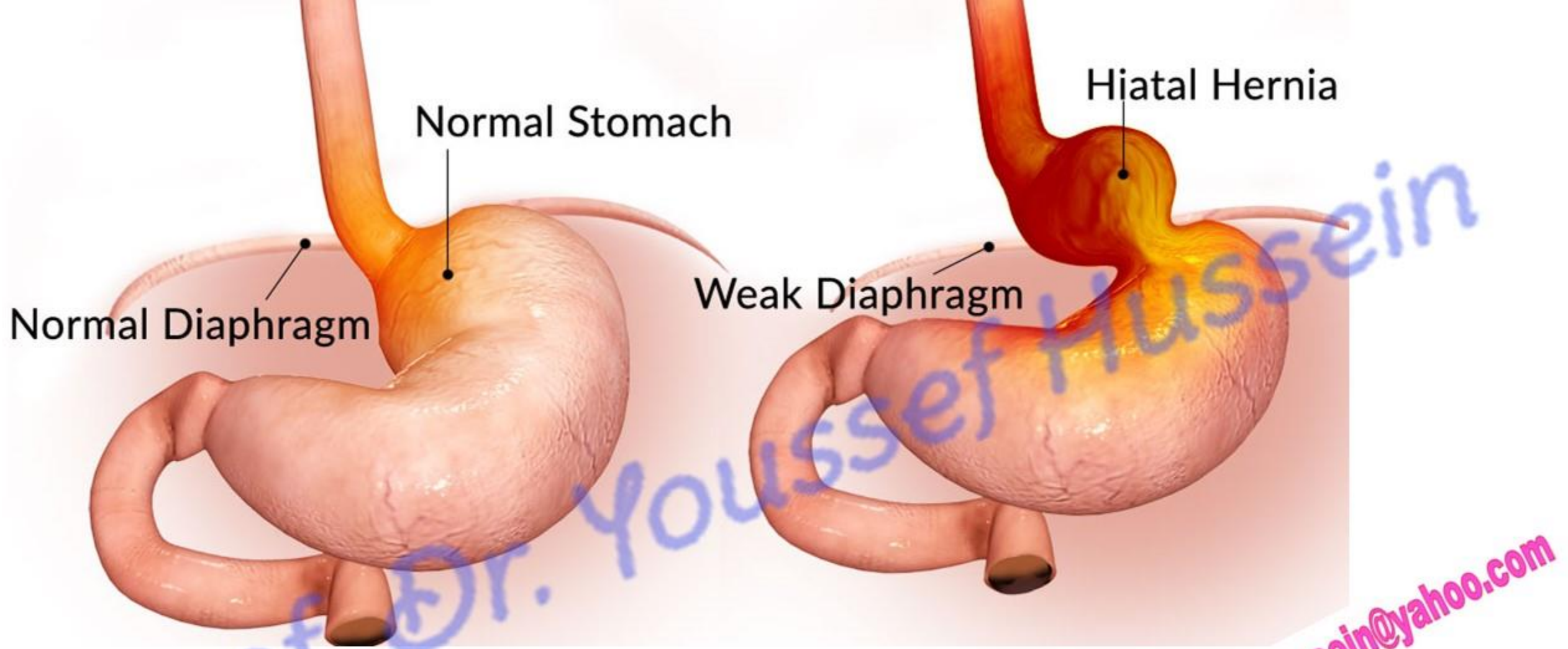
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Hourglass stomach: due to abnormal constriction of the middle of the body of the stomach

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Congenital hiatus hernia, part of the stomach above the diaphragm due to short esophagus.

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Derivatives of Mesogastrium

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**** Derivatives of ventral mesogastrium:**

- **Liver** grows between its 2 layers dividing it into:

A- Ventral part:

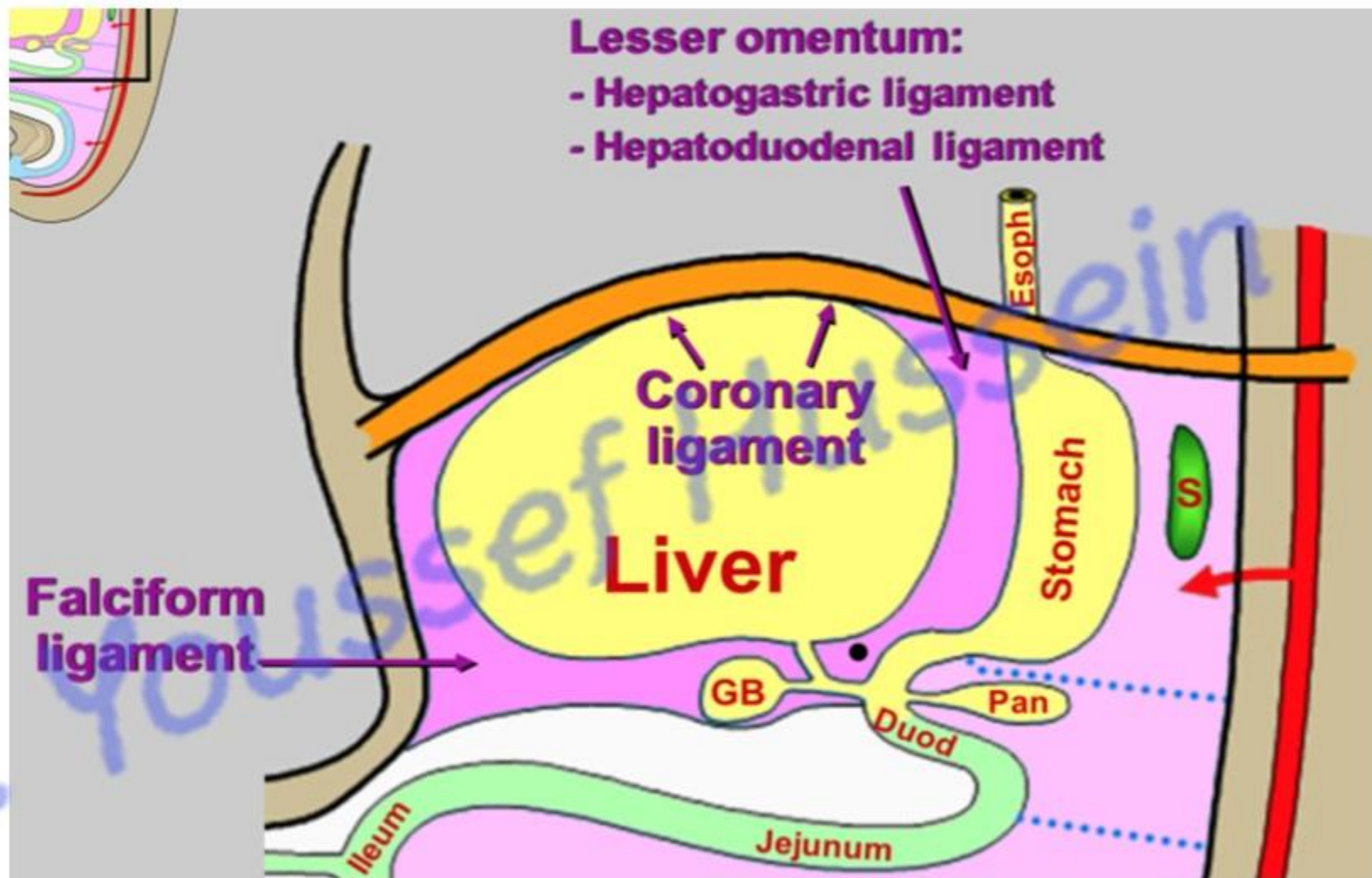
falciform ligament

connecting the liver to anterior body wall.

B- Dorsal part: lesser

omentum connecting

liver to lesser curvature of the stomach.



**** Derivatives of dorsal mesogastrium:**

1- Cranial part forms **gastrophrenic ligament** between fundus of stomach and diaphragm.

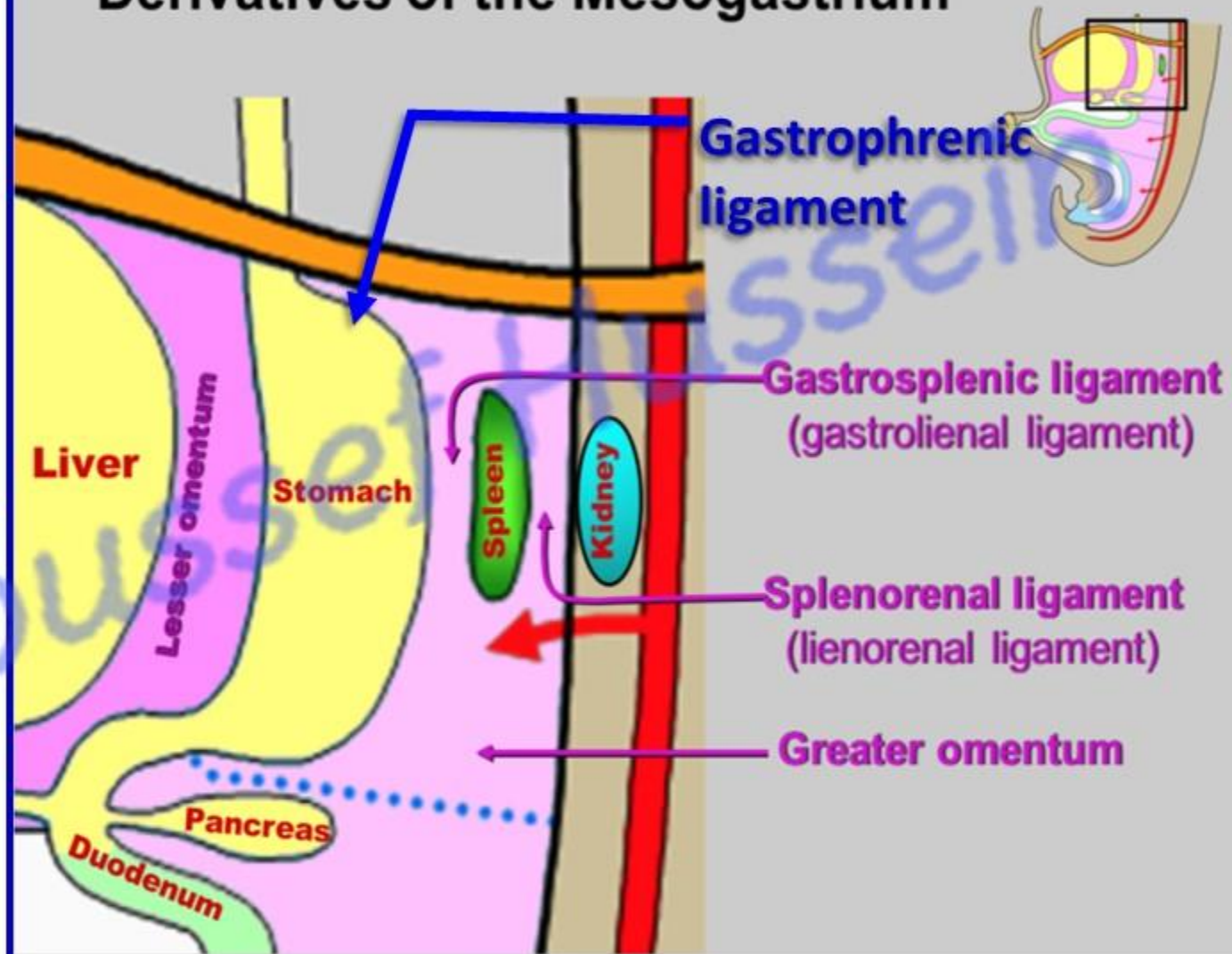
2- Middle part is divided by spleen into:

A- Ventral part: **gastrosplenic ligament** between stomach and spleen.

B- Dorsal part: **lienorenal ligament** between spleen and left kidney.

3- Caudal part forms **greater omentum**.

Derivatives of the Mesogastrium



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Development of Pancreas

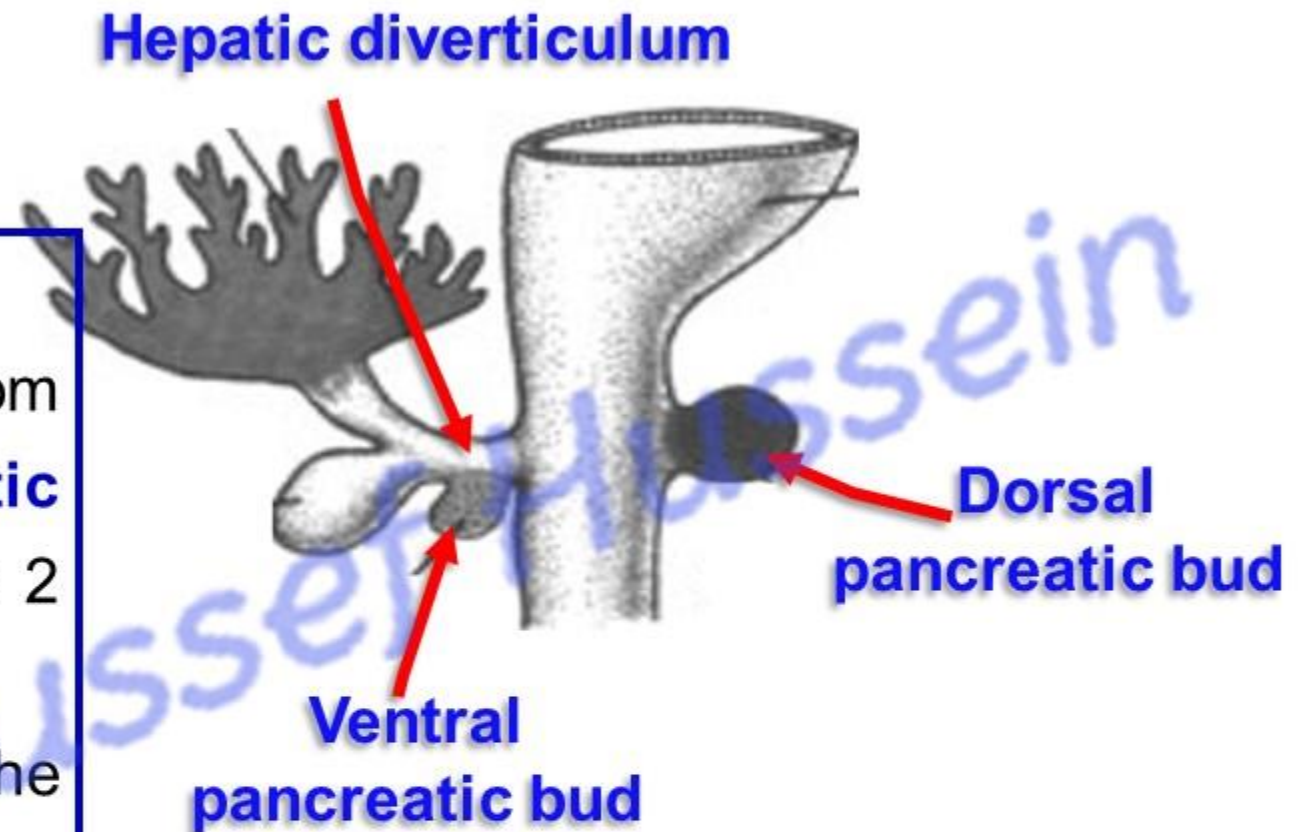
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* The pancreas develops from 2 buds:

A- Ventral pancreatic bud arises from the proximal part of the **hepatic diverticulum** and extends between the 2 layers of the **ventral mesogastrium**.

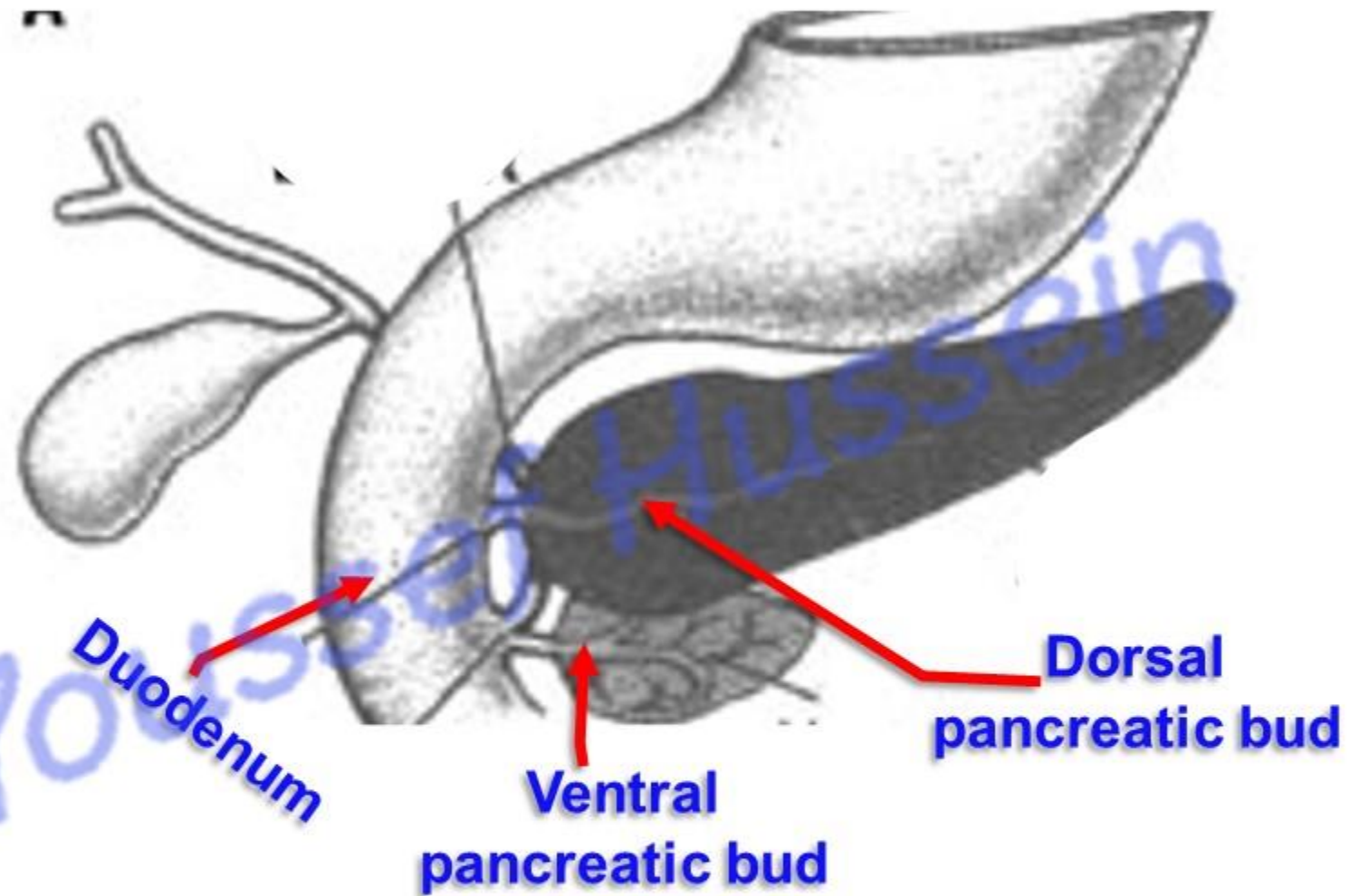
B- Dorsal pancreatic bud arises from the **dorsal wall** of the duodenum **cranial to the hepatic diverticulum** and extends into the **dorsal mesogastrium**.



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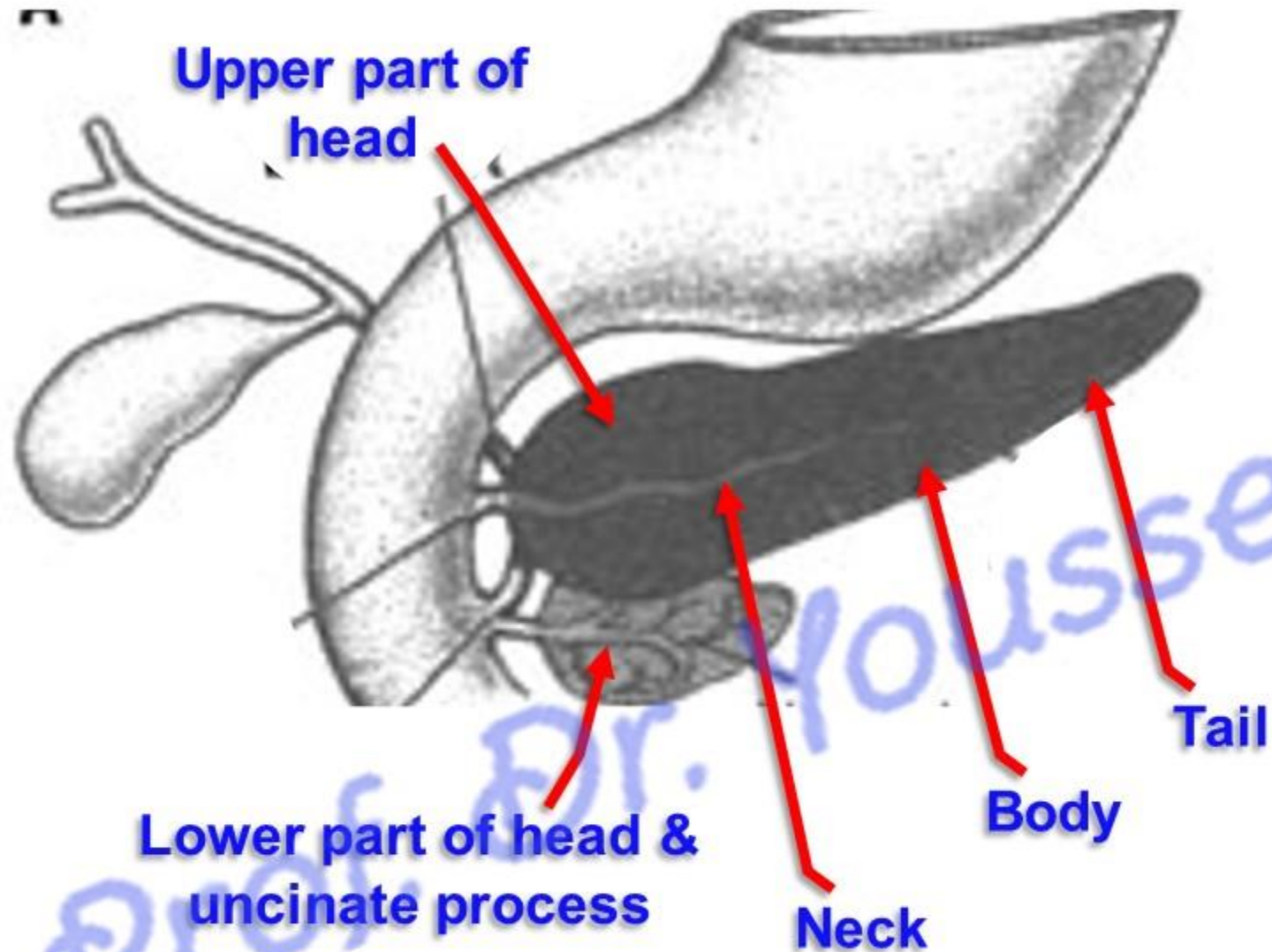
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- As a results of unequal growth of the wall of the duodenum and Rotation of the stomach 90° (clockwise);
- Movement of the ventral pancreatic bud to become with the dorsal bud in the concavity of the duodenum.



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- **Dorsal pancreatic bud** gives rise to the upper part of the head, neck, body and tail.
- **Ventral pancreatic bud** forms the lower part of the head and its uncinate process.

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Minor duodenal papilla

** Development of pancreatic ducts:

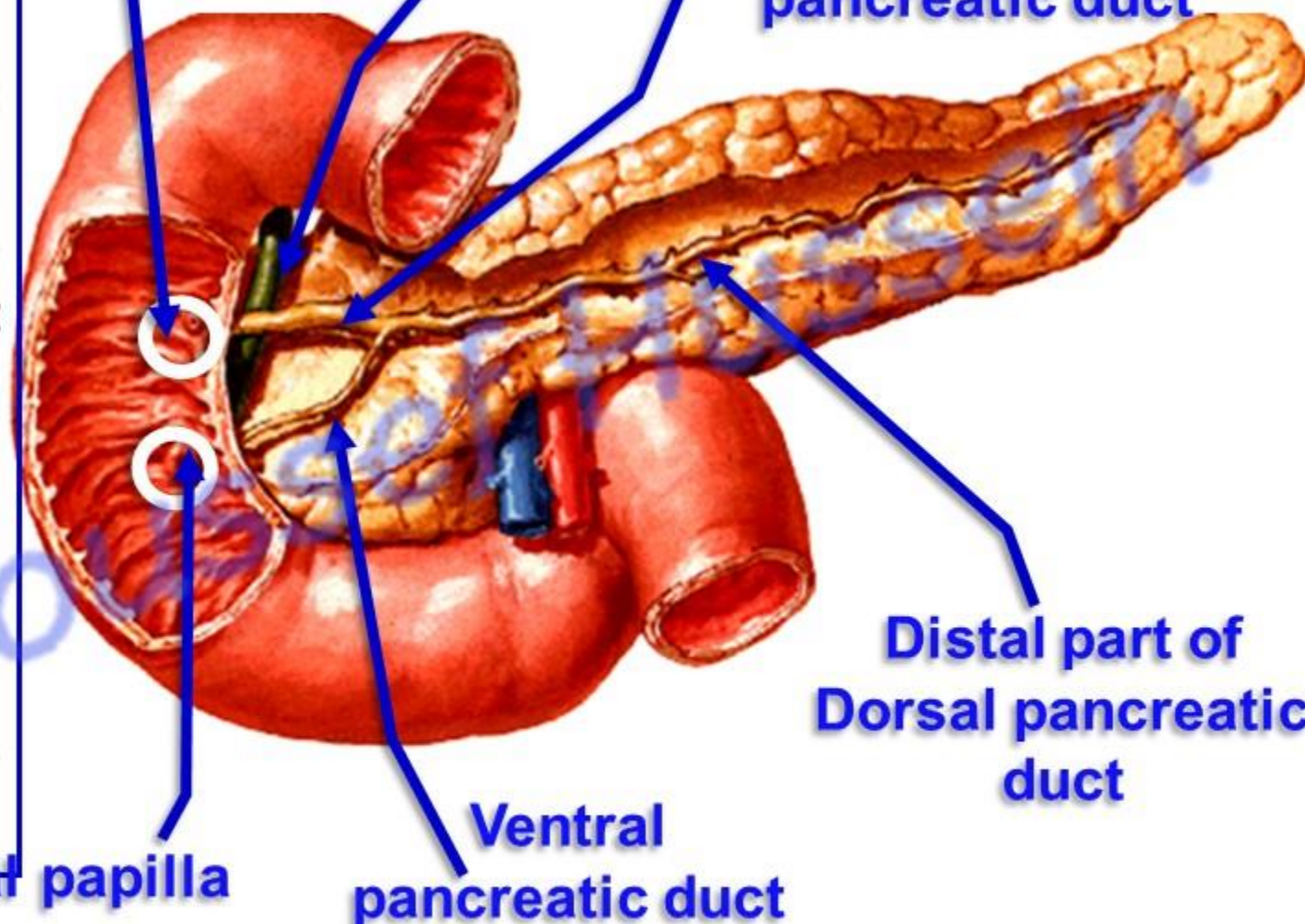
a- **Distal part of dorsal pancreatic duct** unites with **ventral duct** and forms **main pancreatic duct (duct of Wirsung)**, joins CBD and forms **hepatopancreatic duct** which opens at **major duodenal papilla (Vater)**.

b- **Proximal part of the dorsal pancreatic duct** form **accessory pancreatic duct (Santorini's Duct)** and opens at the **minor duodenal papilla** (one inch above).

Major duodenal papilla

Common bile duct

Proximal part of Dorsal pancreatic duct



Distal part of Dorsal pancreatic duct

Ventral pancreatic duct

- Some acini becomes solidified and separated to form **islets of Langerhans** that secrete insulin.

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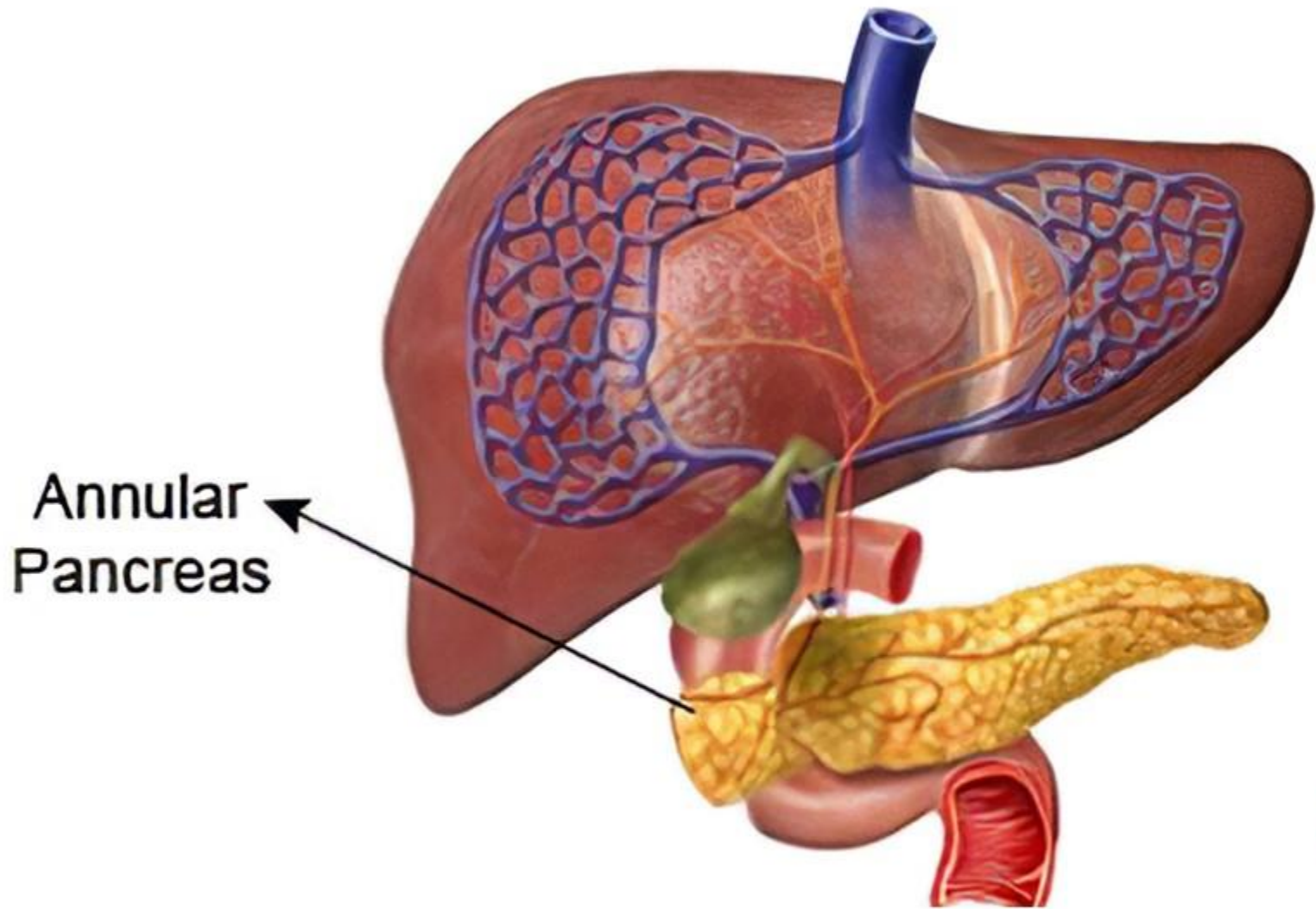
**** Congenital Anomalies of the pancreas**

- **Agensis:** Failure of formation of pancreatic buds is extremely rare
- **Hypogenesis:** incomplete development of the pancreatic buds.
- Failure of formation **islets of Langerhans**
 - **Type I diabetes mellitus (Inadequate of insulin)**

- **Ectopic pancreatic tissue**
- **Pancreatic divisum:** Failure of fusion of ventral pancreatic duct and distal part of dorsal pancreatic ducts together.
 - Upper part of head, body and tail drain in **minor duodenal papilla**
 - Lower part of head drains in **major duodenal papilla.**

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Annular
Pancreas

- **Annular pancreas:** a ring of pancreatic tissues surround duodenum due to **failure of rotation of the ventral pancreatic bud.**
- It may constrict the duodenum causing vomiting.

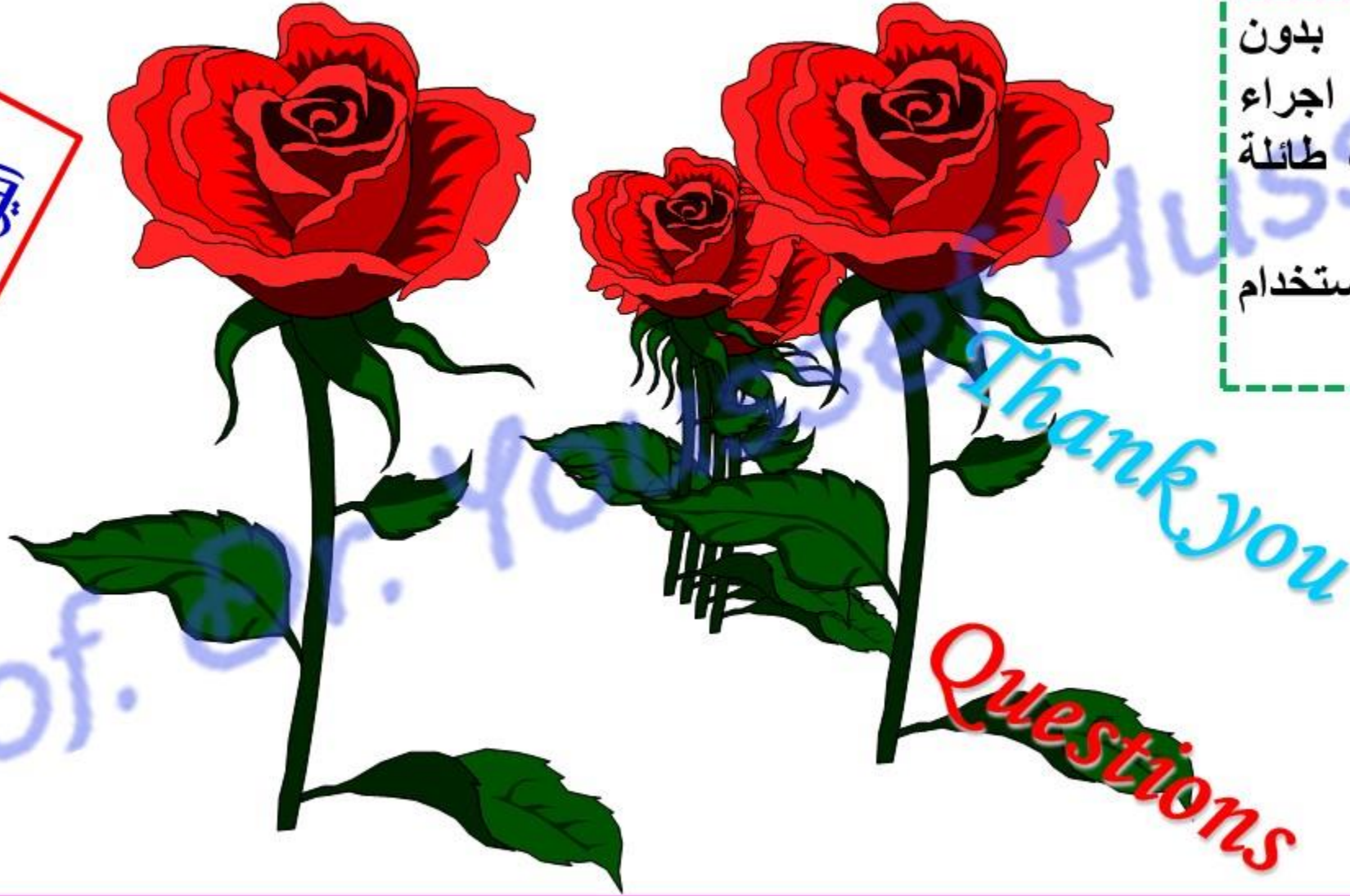
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