

Disclosures

None





Learning Objectives

- Identify the causes of vomiting that are most likely to require operations in infants and young children.
- Review the essential elements of history and physical exam to determine if a vomiting child might need an operation.
- Learn the hallmarks of abdominal surgical emergencies.
- Appreciate the value of different imaging modalities for diagnosing anatomic causes of vomiting.



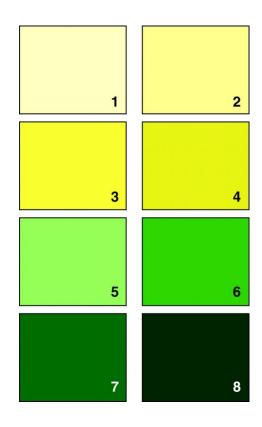


What is bilious vomiting?





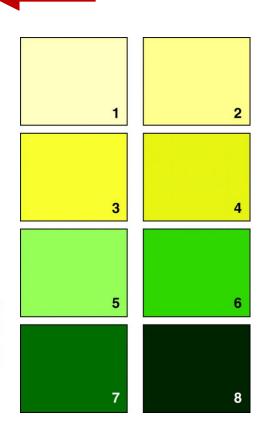
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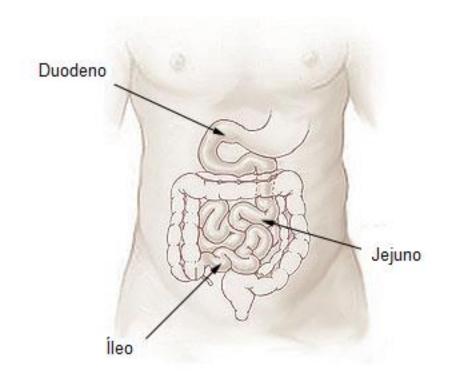


Group	Green (%)	Yellow (%)
Parents	12 (29)	29 (71)
General practitioners	24 (51)	23 (49)
SCBU nurses	22 (76)	7 (24)
Postnatal midwives	33 (69)	15 (31)





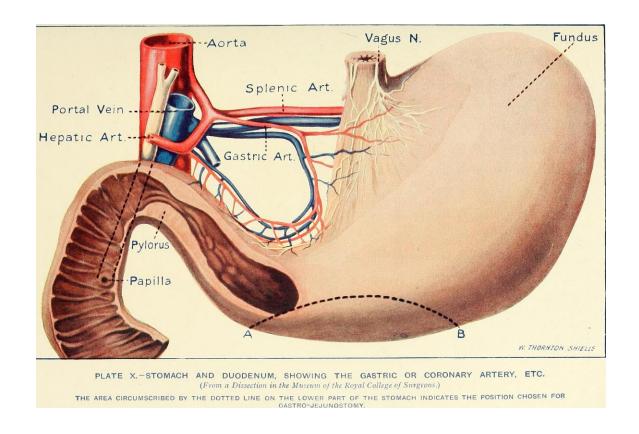
What determines emesis color?







What determines emesis color?







Why does it matter?

- Bilious = obstructive = frequently surgical
 - How frequently?
- Non-bilious = non-obstructive (except above the papilla) = rarely surgical





The vomiting part is important

 Sensitivity of bile in the stomach goes way down if you're sucking it out of a tube.





33 Week Preemie Boy with Bilious Emesis on DOL 7

- Vital signs normal
- Abdomen not distended
- Mild tenderness on exam





What next?

- Surgical consult
- Imaging





Plain films

- Always a good place to start your imaging.
- Quick, easy, available, not operator dependent.





A KUB is NOT ENOUGH

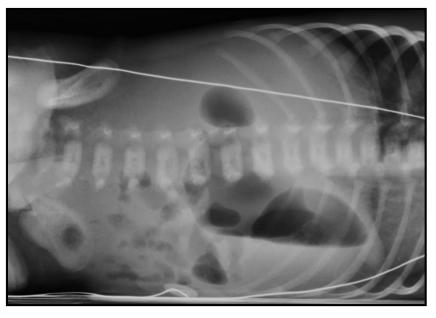
- KUB: supine view only
- Abdominal series:
 - Under 5: Supine and left lateral decubitus (left side down)
 - -5 or older: Supine and upright





33 week preemie with bilious vomiting: Abdominal series











What next?

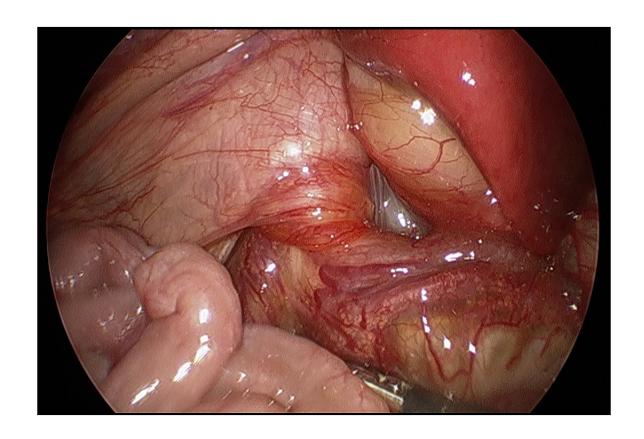






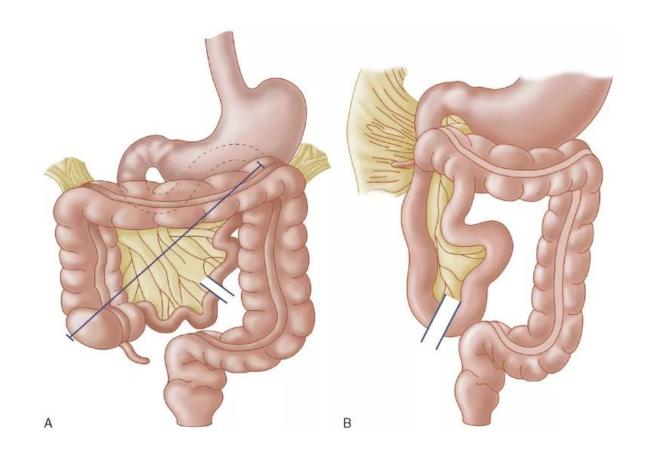


In the OR













Not all bilious vomiting is rapidly fatal (but take nothing for granted)

Term baby with Trisomy 21 and bilious vomiting at birth

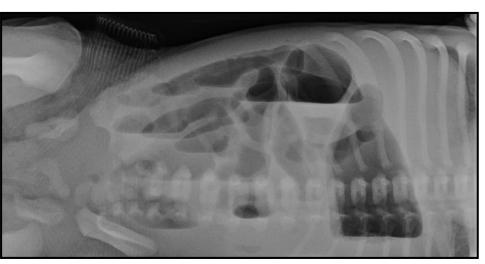






14 day-old girl with vomiting that became bilious during ER visit

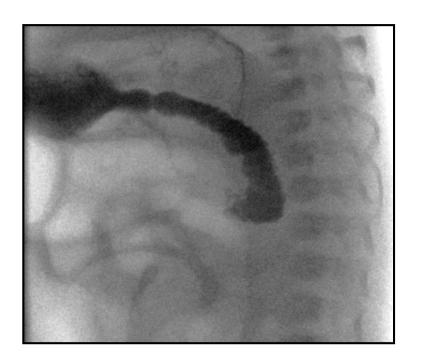


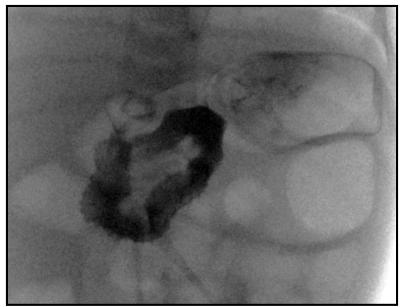


Text **JEXCUZ** to 608-260-7097





























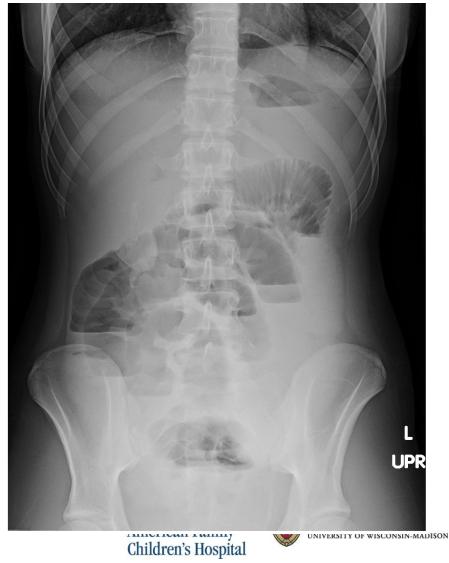
Older kids





SBO or Ileus?





13 yo F with vomiting, h/o VP Shunt

Supine view



Upright view







Text **JEXCUZ** to 608-260-7097

5 mo M with vomiting, RLQ mass

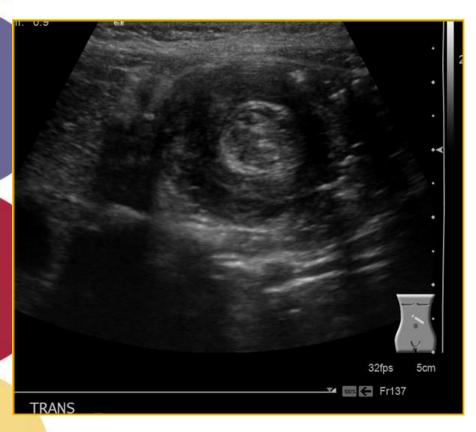
















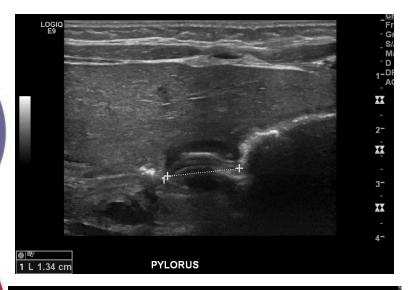


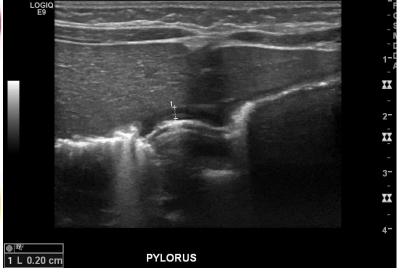
What about small bowel – small bowel intussusception?

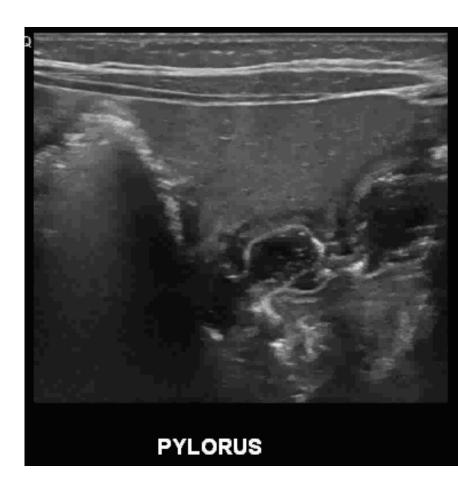




26 day old boy with frequent forceful emesis



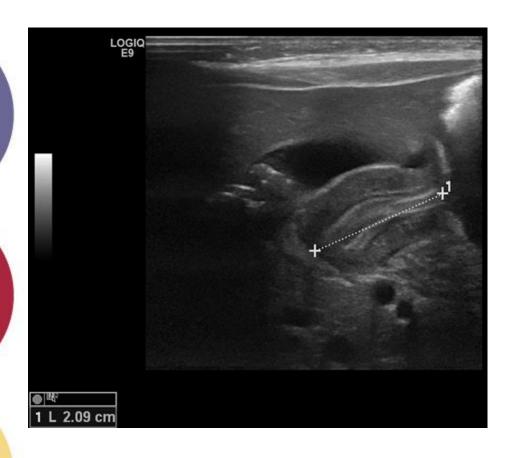


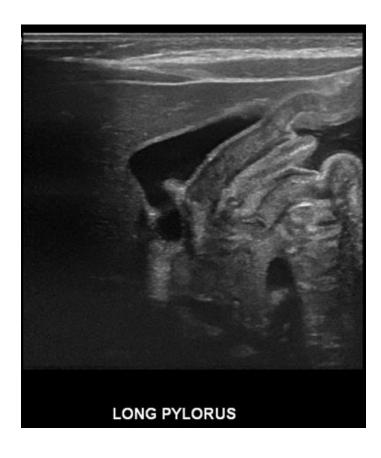






23 day old girl with frequent forceful emesis









Not all vomiting originates in the abdomen

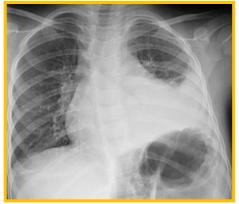


Not all vomiting originates in the abdomen

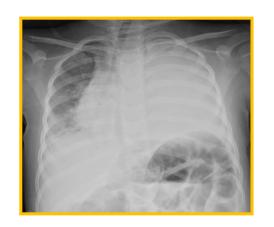


Not all vomiting originates in the abdomen





4 days later



6 days later

www.surgery.wisc.edu/podcast





