



MSSBU OSCE PRACTICE

CASE 3_03_05

Station Vignette

You are a third-year student at GCUH ED department.

The GP has asked you to take a brief history from Jack/Jacklin Edith, a 26-year-old regarding their child. James/Jamie Edith, a 6-week-old has presented with abdominal pain and vomiting.

TASK

You have a total of **7 minutes** to take a history.

This includes:

- History of presenting complaint
- Constitutional history
- Past medical history
- Medications history
- Social history
- Family history
- Focussed systems review

At the end of the allocated time, you will have **1 minute** to answer the examiner's questions.

You do **NOT** need to complete a physical examination.

PATIENT INSTRUCTIONS

History of presenting complaint (/3)

Onset: 2 days ago progressing to become worse

Character: mainly milk, no bile, some blood, projectile

Associated symptoms: (see below)

Time course/duration: few minutes

Exacerbating/relieving factors: Occurs every feed but they seem to be coping okay following the vomiting

Beliefs: Do they have an allergy? Allergies to tree nuts and seafood as well as lactose intolerance seems to run in the family.

Impact on patient: Very stressed and concerned parent, resulting in severe sleep deprivation

Concerns: Is their development and growth going to be affected because of the vomiting due to inadequate nutrition?

Expectations: Find out what the problem is and stop the vomiting.

Previous episodes: Nil

Constitutional and General History (/3)

- Distressed/irritable/drowsy looking: no distress; only after vomiting episode which quickly resolves

- Pain: hard to discern as child cannot express themselves

- Weight changes: **does not seem to be tracking along the percentile recently**. Thinks this may be due to insufficient feeds or vomiting episodes.

- Hydration status: **less than half wet nappies** suggesting low urine output

- **Appetite increased despite vomiting**

- Bowel motions have remained the same

- No rash, fever, chills, night sweats or change to sleep

Systems review/associated symptoms (at least 2 per differential = 1 mark)

*The symptoms **BOLDED** are indicative of positive answers, other answers are suggestions of what is required in terms of questioning to ensure a comprehensive history.*

GASTROENTEROLOGY SYSTEMS REVIEW

Pyloric stenosis

- **Poor weight gain**
- **Vomiting is getting worse in regard to severity and frequency over time**
- **Projectile vomiting**
- **Non-bilious**
- **Previously well**
- **Remains hungry and wants to feed afterwards**

- **Risk factors: First born, male**, family history of pyloric stenosis

Gastro-oesophageal reflux disease (GORD)

- **Regurgitation after feeds**
- Dysphagia, odynophagia
- Chronic non-productive cough and night-time cough
- Not worse lying down after meals

Intussusception

- **Lethargy**
- **Non-bilious vomit** (can also be bilious)
- Knees drawn to chest, Bloody currant jelly stool, Recent infection, Meckel diverticulum

Malrotation with midgut volvulus

- Bilious vomit
- **Failure to gain weight**
- **Recurrent episodes of vomiting**
- Congenital diaphragmatic hernia, congenital heart defects and omphalocele

Incarcerated inguinal hernia

- **Vomiting**
- Obvious bulge, Fever, Warm skin, Abdominal pain

Cow milk protein allergy

- **Vomiting**
- Pruritis, Erythema, Swelling (angioedema) of lips, face, around the eyes, Diarrhoea

Duodenal atresia

- Usually appears in first few days, Bilious vomit, Abdominal distension

Gastroenteritis

- **Non-bilious vomiting**
- Diarrhoea, Infectious symptoms, Fever, Abdominal distension, Sick contacts, Poor food quality

MISCELLANEOUS:

Meningitis/Sepsis

- Rash, Irritability, Unroutable, Increased work of breathing, Distress

UTI

- **Reduced number of wet nappies**
- Smelly or discoloured urine, Incontinence, Fever

Paediatric history (5 marks)

BINDS

Birth history: born at term, spontaneous vaginal delivery, 39 weeks. No problems noted following birth or in the antenatal period.

Immunisations: Up to date.

Nutrition: Always breastfeed, no formula. No problems noted with feeding except for current presentation with vomiting and feeling hungry afterwards. Typically feeds every 3-4 hours and eats sufficiently.

Developmental milestones: normal, social smile, holds head up, coos.

Social history: first born, lives with father and mother

Past medical history (2 marks)

No previous surgeries

No current or previous medical conditions

Medications (2 marks if general but 1 if asks individual categories)

Prescription: none

Recreational: none

Over the counter: none

Vitamins/supplements: none

Allergies (1 mark)

No known allergies

Family history (1 mark)

Mother: nil

Father: lactose intolerance, tree nut allergy

Siblings: nil

EXAMINER QUESTIONS

1. What is the **most likely** diagnosis? Provide **two (2)** further differentials.
2. What are **two (2)** physical examination findings of hypertrophic pyloric stenosis?
3. How would you **manage** this patient?

Extra question

4. What **ABG reading** would be expected?

MARKING CRITERIA – Case 3_03_05

Item	Criteria	Mark
Introduction	<input type="checkbox"/> Hand hygiene <input type="checkbox"/> Appropriate introduction <input type="checkbox"/> Confirms patient name and age <input type="checkbox"/> Explains personal role and gains consent	/2
Presenting complaint	<input type="checkbox"/> Leads with open question	/1
History of presenting complaint	<input type="checkbox"/> Site <input type="checkbox"/> Onset <input type="checkbox"/> Character <input type="checkbox"/> Associated symptoms <input type="checkbox"/> Time course/duration <input type="checkbox"/> Exacerbating/relieving factors <input type="checkbox"/> Beliefs <input type="checkbox"/> Impact on patient/concerns	/4 (0.5 for each)
Systems review	<input type="checkbox"/> At least 2 symptoms per differential = 1 mark, up to 4 differentials (including developmental dyscrasia of the hip, transient synovitis, osteomyelitis etc.). See patient information for more differentials.	/4
Paediatric history	<input type="checkbox"/> Birth – type and how many weeks, any complications, special care nursery <input type="checkbox"/> Immunisations <input type="checkbox"/> Nutrition – e.g. breastfeeding or formula, latching on, solids	/4
Constitutional history	<input type="checkbox"/> Weight changes <input type="checkbox"/> Appetite <input type="checkbox"/> Diet <input type="checkbox"/> Exercise <input type="checkbox"/> Energy levels <input type="checkbox"/> Sleep <input type="checkbox"/> Night sweats <input type="checkbox"/> Chills <input type="checkbox"/> Fever <input type="checkbox"/> Rashes	/5 (0.5 points for each one)
Past medical history	<input type="checkbox"/> Past medical/surgical history <input type="checkbox"/> Asks over the counter, prescription, and herbal remedies <input type="checkbox"/> Allergies <input type="checkbox"/> Immunisations	/4
Family history	<input type="checkbox"/> Asks relevant family history	/1
Social history	<input type="checkbox"/> Occupation <input type="checkbox"/> Living situation <input type="checkbox"/> Asks all of smoking, alcohol and recreational drug use	/3
Questions	<input type="checkbox"/> Q1 – Hypertrophic pyloric stenosis, and 2 of: Gastroenteritis, GORD, over-feeding, sepsis, UTI, food allergy <input type="checkbox"/> Q2 – 2 of: Visible peristalsis, Palpable olive-shaped pyloric mass in epigastrium, Any indicating dehydration [e.g. sunken fontanelles, sunken eyes, lethargy, irritable, reduced urine output, prolonged capillary refill etc.], Succussion splash which involves sloshing sounds heard in stomach several hours post feed after moving the baby	/7

	<input type="checkbox"/> Q3 – 0.5 points for each of: Fluid resuscitation, Surg preparation (nil by mouth, NGT) + Ramstedt pyloromyotomy <input type="checkbox"/> Q4 – Hypokalaemic hypochloaemic metabolic alkalosis (due to vomiting acid HCl)	
Communication skills	<input type="checkbox"/> Appropriate questioning style <input type="checkbox"/> Actively listens to patient <input type="checkbox"/> Systematic approach to history taking <input type="checkbox"/> Appropriate conclusion and summary	/4
Global score	Overall impression of candidate based on warmth, clarity and competence: 1 = fail 2 = borderline 3 = pass/expected 4 = good 5 = excellent	/5
	Total	/44