

retroperitoneal tumor related

Plan:

- →Consult 內科總值, GS, GU
- → Symptomatic control (primperan 1amp IV Q8H)
- →內科總值 → Arrange PES
- \rightarrow GU \rightarrow Collect UA; urine cytology

Endoscopic Findings (17)

Day2 11:00

- →Esophagus : <u>Ulcer</u>, lower esophagus, middle esophagus →Stomach : Gastritis, antrum
- →Add PPI and sucrafate; N/V may be due to hyponatremia

<u>Work up</u> (18)

.cast-amount

.Cry-amount

Crystal

Bacteria

Others

Day2 13:00

HCO3

BE

SaO2

40.7

20

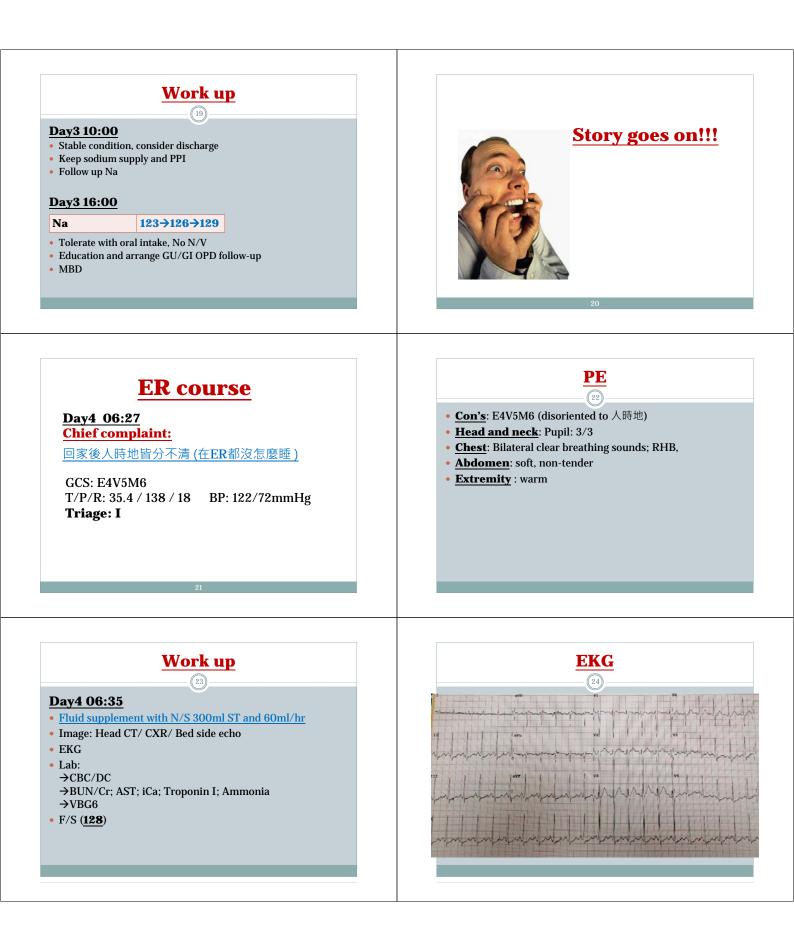
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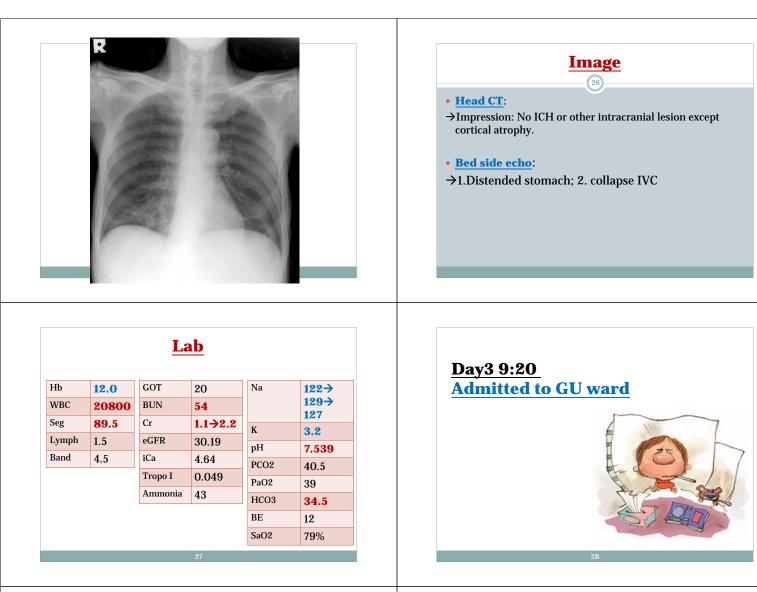
- No specific discomfort, no N/V, no abdominal fullness, 有解小便但是解比較久
- PE showed soft abdomen without tenderness
- →Keep PPI
- \rightarrow On liquid diet
- → Follow up renal function and Na
- \rightarrow Consider Foley insertion and arrange nephro admission if persistant impaired renal function.

BUN	31
Cr	1.6→1.4
eGFR	50.86
Na	123→126

Not Found /HPF

Not Found





Hospital course

(Day4 15:40) left PCN was performed

(Day4) Delirium state was noted and seroquel was given

(<u>Day5</u> 14:25) **Deep coma and cardiac arrest** was noted, CPCR performed, intubated and bosmin given. Massive brownish vomitus about 1600ml was noted. **Favored choking**

(<u>Day5</u> 14:45) **ROSC** and high dose levophed use. \rightarrow Transfer to ICU.

(Day5 15:50) Cardiac arrest again.

(Day5 16:46) Patient expired.

Final Diagnosis

- Acute respiratory failure with cardiac arrest s/p resuscitation
- Right renal pelvis urothelial carcinoma with massive LN metastasis under clinical and image diagnosis
- Left hydronephrosis, cause?
- Acute renal insufficiency
- Suspected gastric outlet obstruction, but negative panendoscopic finding
- Delirium

Discussion

How to approach patient with Nausea and Vomiting

Tintinalli Emergency Medicine 7th edition

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Introduction

- A comprehensive <u>history and physical examination</u> can often reveal the cause of nausea and vomiting, making further evaluation unnecessary.
- The etiologies of nausea and vomiting include <u>iatrogenic</u>, <u>toxic</u>, or <u>infectious causes</u>; <u>gastrointestinal</u> <u>disorders</u>; and <u>central nervous system</u> or <u>psychiatric conditions</u>.

Differential Diagnosis of Nausea an		Functional disorders	Appendicitis
Central nervous system		Chronic intestinal pse	
Closed head injury ⁴			
ncreased intracranial pressure		Gastroparesis	Hepatitis
Cerebrovascular accident (infarction/hemor	rhage)	Irritable bowel syndrom	
Hydrocephalus	Any condition that increases	Nonulcer dyspepsia	Mesenteric ischemia
Mass lesion	intracranial pressure (e.g., mass,	★ Obstruction	Pancreatitis
Meningitis/encephalitis/abscess	infarct, infection) can result in	Adhesions	Peptic ulcer disease
Pseudotumor cerebri	vomiting with or without nausea. → Present with additional	Esophageal disorders.	Peritonitis /achalasia
ligraine	neurologic signs	Intussusception	
eizure disorders ²	<u></u>		Acute symptoms are typically the result of an
/estibular		Malignancy	inflammatory process
Labyrinthitis	nat affect the labyrinthus	Pyloric stenosis	→ Gastric outlet obstructions tend to cause intermittent symptoms
Ménière's disease	verugo.	Strangulated hernia	→intestinal obstructions typically cause acute
Motion sickness		Volvulus	symptoms and severe pain.
nfectious	Medications/Toxins	Metabolic	Miscellaneous
	Medications	Metabolic Adropal disorders	_
Acute otitis media	Medications Antiarrhythmics	Adrenal disorders	Acute glaucoma [≞]
cute otitis media lacteria	Medications Antiarrhythmics Antibiotics	Adrenal disorders Diabetic ketoacidosis	Acute glaucoma [®] Acute myocardial infarction
Acute otitis media Bacteria Bacterial toxins	Medications Antiarrhythmics Antibiotics Anticonvulsents	Adrenal disorders	Acute glaucoma [®] Acute myocardial infarction nes Nephrolithiasis ¹⁰
Acute otitis media Bacteria Bacterial toxins Food-borne toxins	Medications Antiarrhythmics Antibiotics	Adrenal disorders Diabetic ketoacidosis	Acute glaucoma ⁵ Acute myocardial infarction nes Nephrolithiasis ¹⁰ Pain
Acute otitis media Bacteria Bacterial toxins Food-borne toxins Pneumonia [®]	Medications Antiarrhythmics Antibiotics Anticonvulsents Chemotherapeutics	Adrenal disorders Diabetic ketoacidosis Paraneoplastic syndrom	Acute glaucoma [®] Acute myocardial infarction nes Nephrolithiasis ¹⁰
Acute otitis media Bacteria Bacterial toxins Food-borne toxins Pneumonia [£] Spontaneous bacterial peritonitis	Medications Antiarrhythmics Antibiotics Anticonvulsants Chemotherapeutics Digoxin	Adrenal disorders Diabetic ketoacidosis Paraneoplastic syndron Parathyroid disorders	Acute glaucoma ⁵ Acute myocardial infarction nes Nephrolithiasis ¹⁰ Pain
Acute otitis media Bacteria Bacterial toxins Food-borne toxins Pneumonia [®] Spontaneous bacterial peritonitis Jrinary tract infection/pyelonephritis	Medications Antiarrhythmics Antibiotics Anticonvulsants Chemotherapeutics Digoxin Ethanol overdose	Adrenal disorders Diabetic ketoacidosis Paraneoplastic syndron Parathyroid disorders Pregnancy	Acute glaucoma [≦] Acute myocardial infarction nes Nephrolithiasis ¹⁰ Pain Psychiatric disorders
Acute otitis media Bacteria Bacterial toxins Food-borne toxins Pneumonia [®] Spontaneous bacterial peritonitis Jrinary tract infection/pyelonephritis /iruses	Medications Antiarrhythmics Antibiotics Anticonvulsants Chemotherapeutics Digoxin Ethanol overdose Hormonal preparations Illicit substances Nonsteroidal anti-inflammatory drugs	Adrenal disorders Diabetic ketoacidosis Paraneoplastic syndron Parathyroid disorders Pregnancy Thyroid disorders	Acute glaucoma [§] Acute myocardial infarction Nephrolithiasis ¹⁰ Pain Psychiatric disorders Anorexia nervosa
cute otitis media acteria acterial toxins ood-borne toxins heumonia [®] pontaneous bacterial peritonitis irinary tract infection/pyelonephritis firuses Adenovirus	Medications Antiarrhythmics Antibiotics Anticonvulsants Chemotherapeutics Digoxin Ethanol overdose Hormonal preparations Illicit substances Nonsteroidal anti-inflammatory drugs Opiates	Adrenal disorders Diabetic ketoacidosis Paraneoplastic syndron Parathyroid disorders Pregnancy Thyroid disorders	Acute glaucoma [§] Acute myocardial infarction Nephrolithiasis ¹⁰ Pain Psychiatric disorders Anorexia nervosa Anxiety
Acute otitis media Bacteria Bacterial toxins Food-borne toxins Pneumonia [®] Spontaneous bacterial peritonitis Jrinary tract infection/pyelonephritis /iruses Adenovirus Norwalk	Medications Antiarrhythmics Antibiotics Anticonvulsants Chemotherapeutics Digoxin Ethanol overdose Hormonal preparations Illicit substances Nonsteroidal anti-inflammatory drugs Opiates Overdoses/withdrawal ^p	Adrenal disorders Diabetic ketoacidosis Paraneoplastic syndron Parathyroid disorders Pregnancy Thyroid disorders	Acute glaucoma [®] Acute myocardial infarction Nephrolithiasis ¹⁰ Pain Psychiatric disorders Anorexia nervosa Anxiety Bulimia nervosa Conversion disorder
	Medications Antiarrhythmics Antibiotics Anticonvulsants Chemotherapeutics Digoxin Ethanol overdose Hormonal preparations Illicit substances Nonsteroidal anti-inflammatory drugs Opiates Overdoses/withdrawal ^E Radiation therapy	Adrenal disorders Diabetic ketoacidosis Paraneoplastic syndron Parathyroid disorders Pregnancy Thyroid disorders	Acute glaucoma [®] Acute myocardial infarction Nephrolithiasis ¹⁰ Pain Psychiatric disorders Anorexia nervosa Anxiety Bulimia nervosa Conversion disorder Depression
cute otitis media lacteria lacterial toxins 'ood-borne toxins 'neumonia [®] spontaneous bacterial peritonitis Irinary tract infection/pyelonephritis 'iruses Adenovirus Norwalk Rotavirus Infectious and toxic causes of	Medications Antiarrhythmics Antibiotics Anticonvulsants Chemotherapeutics Digoxin Ethanol overdose Hormonal preparations Illicit substances Nonsteroidal anti-inflammatory drugs Opiates Overdoses/withdrawal [®] Radiation therapy Toxins Arsenic ²	Adrenal disorders Diabetic ketoacidosis Paraneoplastic syndrom Parathyroid disorders Pregnancy Thyroid disorders Uremia	Acute glaucoma [®] Acute myocardial infarction Nephrolithiasis ¹⁰ Pain Psychiatric disorders Anorexia nervosa Anxiety Bulimia nervosa Conversion disorder Depression Psychogenic/emotional
Acute otitis media Bacteria Bacterial toxins Food-borne toxins Pneumonia [®] Spontaneous bacterial peritonitis Jrinary tract infection/pyelonephritis /iruses Adenovirus Norwalk	Medications Antiarrhythmics Antibiotics Anticonvulsants Chemotherapeutics Digoxin Ethanol overdose Hormonal preparations Illicit substances Nonsteroidal anti-inflammatory drugs Opiates Overdoses/withdrawal [®] Radiation therapy Toxins Arsenic ²	Adrenal disorders Diabetic ketoacidosis Paraneoplastic syndron Parathyroid disorders ★ Pregnancy Thyroid disorders Uremia → <u>Pregnancy</u> is the	Acute glaucoma [®] Acute myocardial infarction Nephrolithiasis ¹⁰ Pain Psychiatric disorders Anorexia nervosa Anxiety Bulimia nervosa Conversion disorder Depression

History taking

• Identify the <u>onset and duration</u> of the symptoms. (<u>Chronic symptoms are defined as >1 month</u>)

Frequency and timing.

- The <u>content of the vomitus</u> may be helpful to determine <u>if an obstruction is present and its location</u>.
- <u>Review medications</u>
- <u>Associated symptoms</u>:
- \rightarrow Abdominal pain?
- →<u>Always ask about prior abdominal surgeries</u>
- \rightarrow Fever? Diarrhea? \rightarrow Contact?
- \rightarrow CNS sign? (headache, visual changes, vertigo, or neurologic deficits)

TABLE 2 Possible Diagnoses Based on the History in Patients with Nausea and Vomiting History Possible diagnose Onset of symptoms Abrupt Cholecystitis, food poisoning, gastroententis, illicit drugs, medications, pancreatitis Insidious Gastroesophageal reflux disease, gastroparesis, medications, metabolic disorders, pregnancy Timing of symptoms Before breakfast Ethyl alcohol, increased intracranial pressure, pregnancy, uremia During or directly after eating Psychiatric causes Less likely: peptic ulcer disease or pyloric stenosis One to four hours after a meal Gastric outlet obstructions (e.g., from peptic ulcer disease neoplasms), gastroparesis Continuous Conversion disorder, depression Irregular Major depression

Nature of vomited matter

Undigested food	Achalasia, esophageal disorders (e.g., diverticulum, strictures)
Partially digested food	Gastric outlet obstruction, gastroparesis
Bile	Proximal small bowel obstruction
Feculent or odorous	Fistula, obstruction with bacterial degradation of contents
Large volume (> 1,500 mL per 24 hours)	Suggests organic rather than psychiatric causes
Abdominal pain	
Right upper quadrant	Biliary tract disease, cholecystitis
Epigastric	Pancreatic disease, peptic ulcer disease
Severe pain	Biliary disease, pancreatic disease, peritoneal irritation, small bowel obstruction
Severe pain that precedes vomiting	Small bowel obstruction

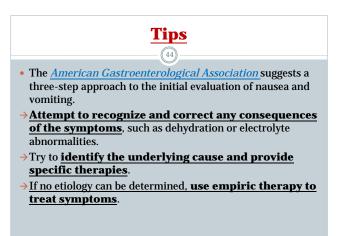
Weight loss	Malignancy (significant weight loss may also occur secondary to sitophobia in gastric outlet obstructions and peptic ulcer disease)
Diarrhea, myalgias, malaise, headache, contact with ill persons	Viral etiologies
Headache, stiff neck, vertigo, focal neurologic deficits	Central neurologic causes (e.g., encephalitis/meningitis, head injury, mass lesion or other cause of increased intracranial pressure, migraine)
Early satiety, postprandial bloating, abdominal discomfort	Gastroparesis
Repetitive migraine headaches or symptoms of irritable bowel syndrome	Cyclic vomiting syndrome



Table 75-3 Differential Diagnosis Based on Physical Examination Findings		
Physical Examination	Abnormal Signs or Symptoms	Some Diagnostic Considerations
General	Toxic appearing	Dehydration
	Generalized weakness	Chronic malnutrition
	Weight loss	Malignancy
Vital signs	Fever	Infection (gastroententis, appendicitis, cholecystitis)
	Tachycardia	-
	Hypotension	Bowel perforation second peritonitis
	Hypertension	Severe volume depletion
		Intracranial hemorrhage or stroke

Head, eyes, ears, nose, throat	Nystagmus	Peripheral vs. central causes (benign positional vertige cerebellar infarct)		
	Exophthalmos	cerebellar infarct)		
	Pin-point pupils	Thyroid disorders (Graves disease)		
	Fixed-dilated pupil, eye pain	Opiate abuse		
		Acute glaucoma		
	Dry mucous membranes	Dehydration		
		Bulimia		
	Poor dental enamel			
	Parotid gland enlargement			
	Lymphadenopathy			
Abdomen	Distention	Small bowel obstruction, gastroparesis, gastric outlet		
	+ bowel sounds	obstruction, ileus		
	Surgical scars	Ileus		
	Hernias or palpable masses	Incarcerated hernia, tumors		
		Peritonitis		
	Abdominal rigidity			
		42		

Neurologic	Mental status	Dehydration, intracranial lesion or pathology, brainstem tumor elevated intracranial pressure
	Cranial nerve findings or neurologic deficits	
	Papilledema	
Extremities	Scarring on dorsal surface of the hands	Bulimia
Skin	Jaundice	Hepatobiliary disease (hepatitis, choledocholithiasis)
	Poor skin turgor	
	Hyperpigmentation	Dehydration
	Decreased elasticity	Addison disease
	Track marks	Scleroderma
		Drug abuse/withdrawal



Diagnostic testing

(AT) TABLE 3 Diagnostic Tests and Clinical Suspicion for Patients with Nausea and Vomiting Test Clinical suspicion Laboratory tests Complete blood count Leukocytosis in an inflammatory process, microcytic anemia from a mucosal process Electrolytes Consequences of nausea and vomiting (e.g., acidosis, alkalosis, azotemia, hypokalemia) Ervthrocyte sedimentation rate Inflammatory process Pancreatic/liver enzymes For patients with upper abdominal pain or jaundice For any female of childbearing age Pregnancy test Protein/albumin Chronic organic illness or malnutrition Specific toxins Ingestion or use of potentially toxic medications Thyroid-stimulating hormone For patients with signs of thyroid toxicity or unexplained nausea and vomiting Radiographic testing Supine and upright abdominal radiography Mechanical obstruction

Situation	Associated neurotransmitters	Recommended antiemetic
Migraine <mark>h</mark> eadache	Dopamine (probably a primary mediator)	For headache and nausea: metoclopramide (reglan) or prochlorperazine (compazine)
		For nausea: oral antiemetics, metoclopramide, prochlorperazine, serotonin antagonists
Vestibular nausea	Histamine, acetylcholine	Antihistamines and anticholinergics (equally effective)
Pregnancy-induced nausea	Unknown	For nausea: ginger, vitamin B6 For hyperemesis gravidarum: promethazine (phenergan, first-line agent); serotonin antagonists and corticosteroids (second-line agents)
Gastroenteritis	Dopamine, serotonin	First-line agents: dopamine antagonists Second-line agents: serotonin antagonists Use in children is controversial
Postoperative nausea and vomiting	Dopamine, serotonin	Prevention: serotonin antagonists, droperidol (inapsine), dexamethasone Treatment: dopamine antagonists, serotonin antagonists, dexamethasone

