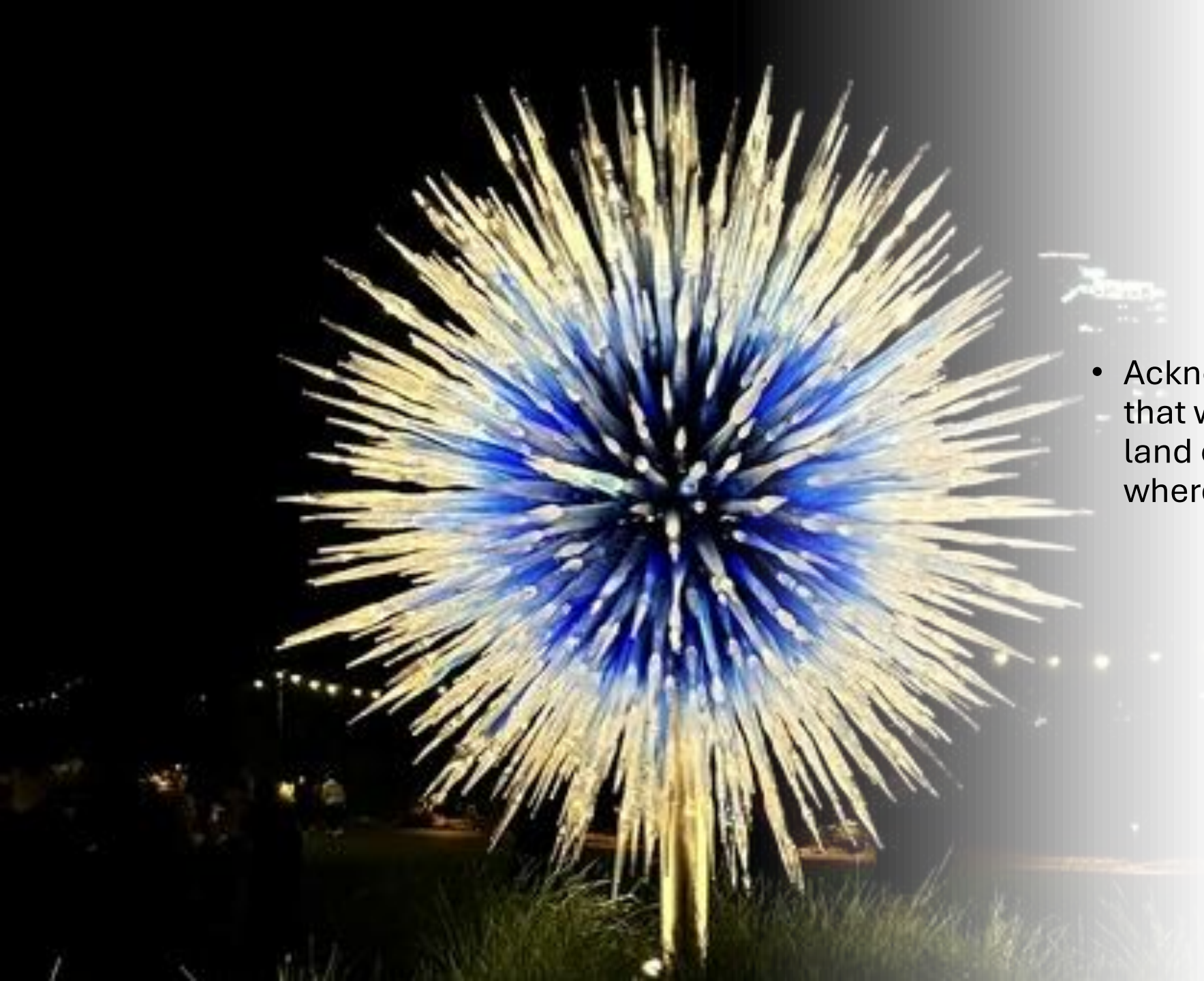


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Nausea & Vomiting: The Forgotten Symptoms





- Acknowledge the Kaurna lands that we meet on today and the land of the Wiradjuri people where I work and live

Definitions

Nausea: common, unpleasant sensation of queasiness, stomach discomfort, urge to vomit, 'feeling sick'

Retching: reverse peristalsis, action of stomach and oesophagus

Vomiting: forceful expulsion of stomach content

Regurgitation: backward effortless flow of undigested food, liquid or stomach acid

Expectoration: Coughing or spit from the lungs

Occurrence in Palliative Care Population

70% persons with advanced
cancer

30% persons with cardiac
failure

70% persons with CKD

25% persons with Severe
COPD

Pain in Palliative Care Population

Estimated to occur in 50 – 90 % patients

PCOC data offers insights into recognition and treatment of pain

80% palliative care scripts are for analgesia mainly prescribed by non palliative care prescribers

Palliative Care specialists are more likely to prescribe anti emetic (twice as likely)

Paucity of data for recognition and treatment of nausea and vomiting



Impacts of Nausea and Vomiting

- Can mask other symptoms
- Mild nausea can have a severe impact
- Quality of life
- Hard to distract from



Welcome to 2030

- You are all Registered Nurse Prescribers
- Patient vignettes
- Utilise Slido for your answers

Case One

You are seeing Amir, he has locally advanced adenocarcinoma of the oesophagus. His oncologist commenced 5mg Oxynorm liquid last week

Today his wife informs you that the new medication is making him feel sick and he is refusing to take it.



How Would You Treat Amir?



What Would You Do Next??

① The Slido app must be installed on every computer you're presenting from

Case Two

- You have been asked to see Shaz with several days of intermittent nausea and vomiting. She has ovarian cancer with peritoneal seeding. She informs you that she kept down soup for tea last night (about ½ cup) and has had a piece of toast with honey and a ½ cup of tea for breakfast. She now feels yuck, full and bloated.



How Would You Treat Shaz



What Would You Do Next?

Queer Sick Rocky Run Down Squeamish Wobbly Squamish Rotten Green
III Unwell Upchuck Yuck waves of heat rolling through Wretched Sickly Seedy Poorly
Laid up Sea sick Sickish Ropy Stricken Woozy Weak Under the weather Sick as a dog
Not right Rough Shaky Out of sorts

History is the key to good patient assessment

Description in patient's own words, what they believe is causing it?

Quality – differentiate between nausea/vomit/regurgitation/chest gunk

Duration – timing, intermittent, continuous, relationship between nausea and vomiting

Triggers – thought of food, oral intake, chemo/other medicines

History

Vomitus – what does it look like, undigested food, bile, faecal matter, chest secretions

Associated symptoms – headache, constipation (what is their bowel history), pain, poor appetite

Drug history – medication commencement

Prior history.....

Physical Examination

Abdomen – distension, bowel sounds, organomegaly, other masses

Oral candidiasis

Rectal examination – are they constipated

Signs of sepsis, neurological signs, infection

Biochemical	Metabolic – hypercalcaemia, renal failure		
Impaired gastric emptying	Drugs – opioids, tricyclic antidepressants	Occurs after initiation of medications	They feel hungry and once they have a mouthful of food feel like a ‘poisoned pup or post prandial Christmas feeling’
	Hepatomegaly	Early satiety	Yuck, off my tucker, awful,
	Splenamegaly	Bloating	Bluergh
	‘Squashed stomach’	Nausea and vomiting soon after eating	Confused and sad
		Feels better after a vomit	Carer stress can be high
Visceral/serosal	Bowel obstruction	Nausea followed by large volume vomit (depending on level of obstruction)	Intense feeling of sickness
	Stretched liver capsule		Sick feeling associated with cramping pain
		Colicky abdominal pain	Bloated and uncomfortable
		Bowel sounds can be increased in partial obstruction or may be absent for ileus	Yuck feeling
			Feeling sluggish and off
Cranial	Raised intracranial pressure – tumour, infarction	Constant nausea	Feeling off all the time
		May be worse in morning	No relief
			Don’t feel right
			Accompanied by dizziness
			Can worsen when changing position

Treatment

Assessment as foundation to treat

Nonpharmacological treatments are key

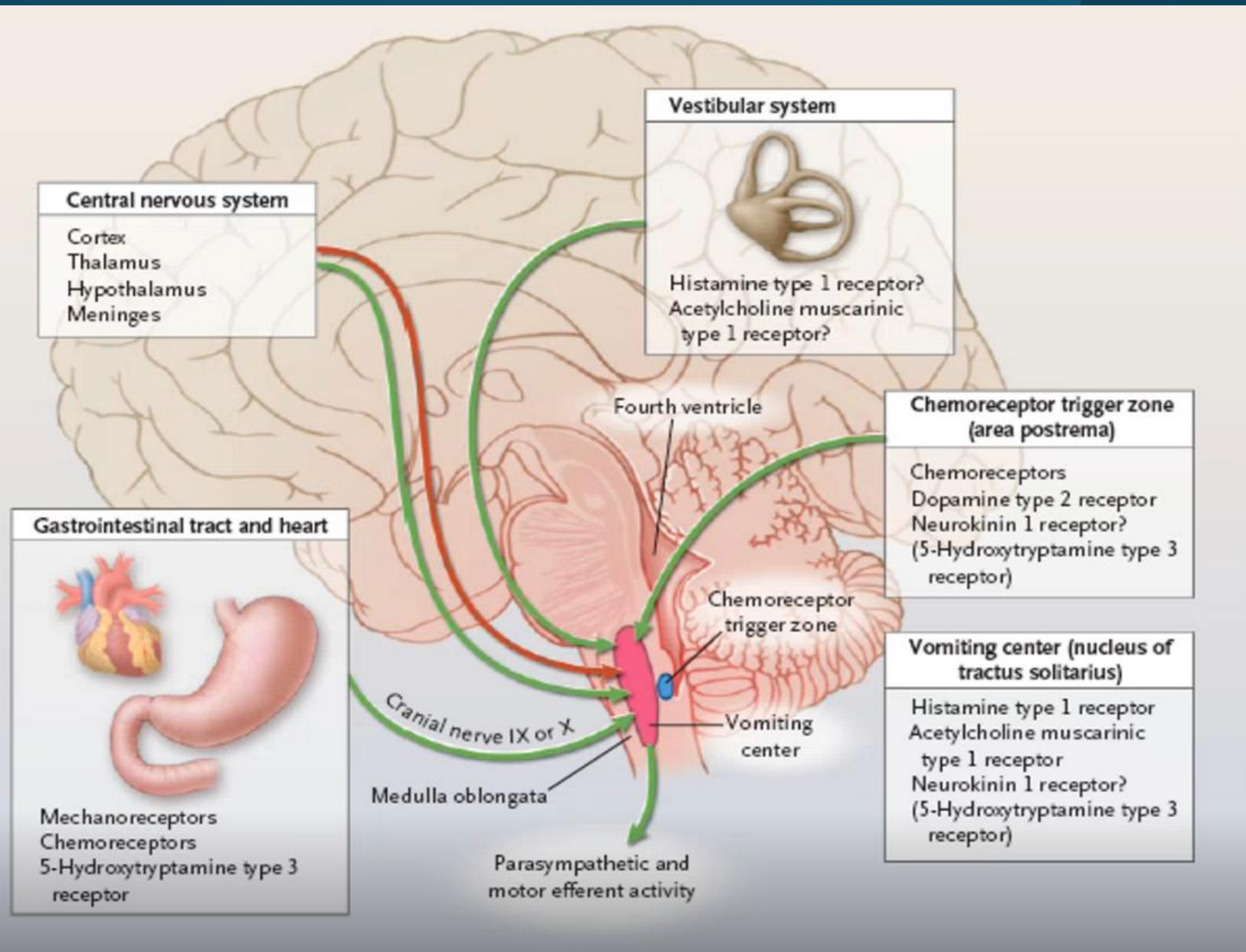
Guideline versus mechanistic approach to medications

Surgical interventions – resection, NGT, venting gastrostomy

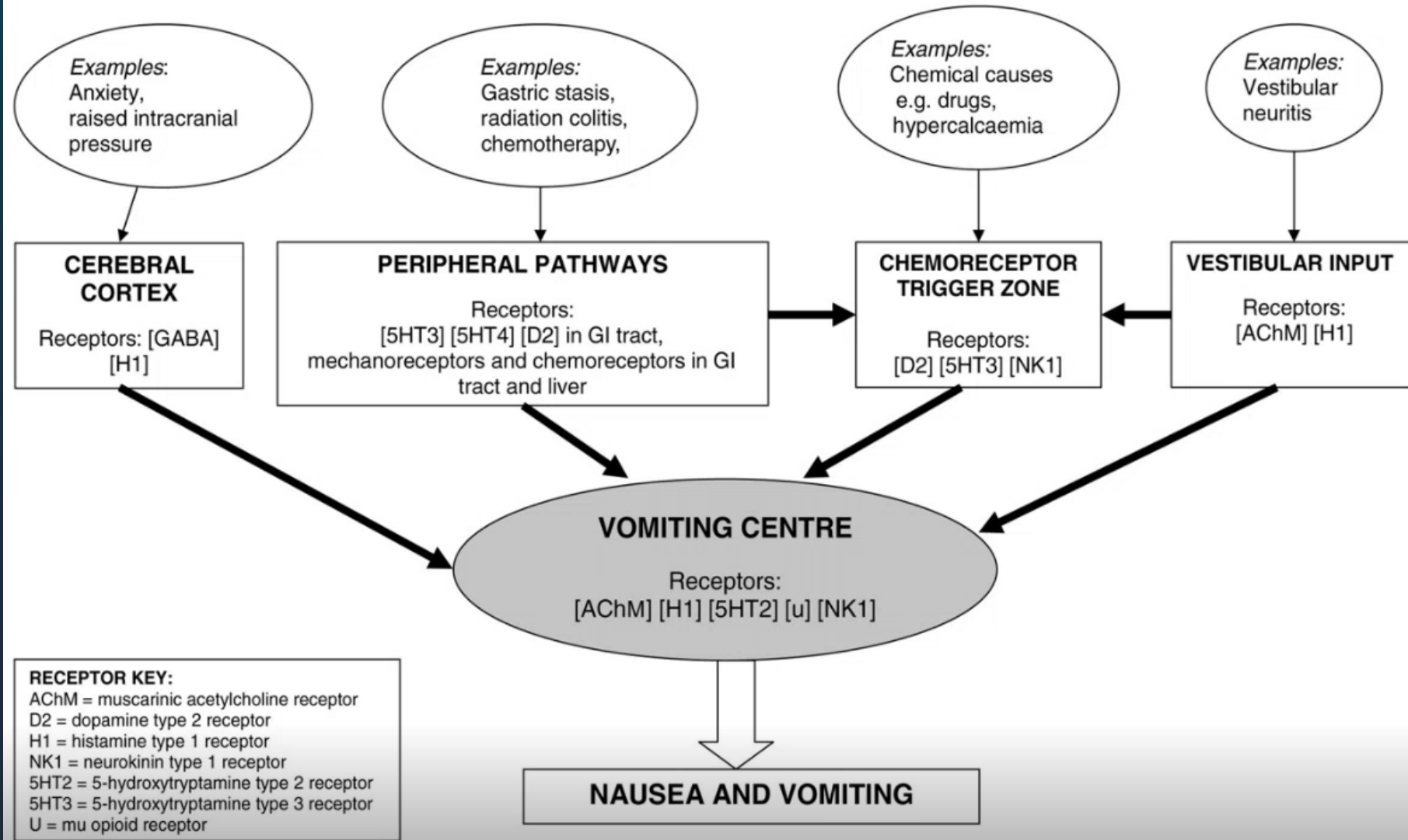
Patient education

How Do Anti Emetics Work?

- Prokinetics – push gastric contents along
- Dopamine Antagonists – block receptors in CTZ, preventing dopamine from triggering the medullary vomiting centre
- Anti histamine – cross the blood brain barrier and block histamine and acetylcholine receptors in the vomiting centre and inner ear
- 5HT3 Antagonists – block serotonin, preventing it from binding to the 5HT3 receptors



Various Triggers and Where they act



Anti Emetic Selection

Table 1. Dosing, adverse effects and cost of commonly used antiemetics in advanced cancer^A

Drug	Recommended daily dosing	Adverse effects	Cost (\$) per day
Metoclopramide	10 mg TDS PO PRN, to a maximum of 30 mg in 24 h 5–10 mg TDS IM/SC PRN, to a maximum of 30 mg in 24 h	Diarrhoea, dizziness, drowsiness, akathisia, increased serum prolactin, galactorrhoea, extrapyramidal side effects, neuroleptic malignant syndrome, arrhythmias	0.40–1.20 3.23–9.69
Haloperidol	1.5–3 mg PO BD PRN or 1 mg SC BD PRN. The maximum dose we would use for the indication of nausea is 6 mg PO per day, or 5 mg SC per day - The dose in the RCT was 1.5 mg orally once daily, increased to 1.5 mg twice daily if nausea continued⁵	Sedation, extrapyramidal side effects, hypotension, dystonia, neuroleptic malignant syndrome, parkinsonism, tardive dyskinesia, stroke, VTE, QT prolongation, arrhythmias	0.07–0.22 1.56–4.70
Cyclizine	25 mg TDS PRN PO, to a maximum of 150 mg in 24 h	Sedation, dizziness, constipation, urinary retention, dry eyes/mouth, dyskinesia, hallucinations, agranulocytosis, hepatic dysfunction	1.16–3.49
Ondansetron	4–8 mg TDS PO PRN, up to 24 mg in 24 h - Most trials used tropisetron.^{9,10,11} One trial used ondansetron 24 mg per day⁷	Constipation, extrapyramidal side effects, QT prolongation, arrhythmias	1.2–5.10
Levomepromazine	- Not AMH/PBS listed - Start at 3.125–6.25 mg PO BD, to a maximum of 12.5 mg per day orally. Or 3.125 mg SC once daily, to a maximum of 3.125 mg SC twice daily - The trial dose was 6.25 mg PO OD, increased to 6.25 mg PO BD if nausea continued⁵	Sedation, extrapyramidal side effects, dry mouth, postural hypotension	Not readily available in community but is available through hospital pharmacies

^APrices are for Pharmaceutical Benefits Scheme (PBS)-recommended formulations listed by a prominent Australian pharmacy chain. Dosages and prices are listed for PO, IM and SC preparations where relevant. Maximum doses are specific to the indication of nausea in advanced cancer

AMH, Australian Medicines Handbook; BD, twice per day; IM, intramuscular; OD, once a day; PO, oral; PRN, as required; RCT, randomised controlled trial; SC, subcutaneous; TDS, three times a day; VTE, venous thromboembolism.

Non Pharmacological



Control odour



Fresh air



Oropharyngeal
hygiene



Suitable distractions,
relaxation techniques

Non-Pharmacological



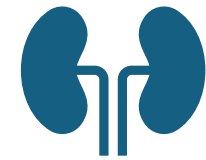
Nurse upright



Avoid emetogenic smells
and foods



Avoidance of situations in
which nausea and vomiting
is a conditioned response



Treat associated symptoms
(constipation, pain, anxiety)

Reflection



Nausea and Vomiting

- More than just throwing medications at patients
- Regular medications
- Consider whole person
- Be Kind
- Don't forget the often forgotten





Thank You