

Topical pain relief options:

- Lidocaine Gel/Patch – 4-5%
- Capsaicin cream
- Diclofenac gel
- Salonpas/Biofreeze (menthol)

Acetaminophen 1 gram PO q6h
 Acetaminophen 1 gram PO q8h

NSAIDs

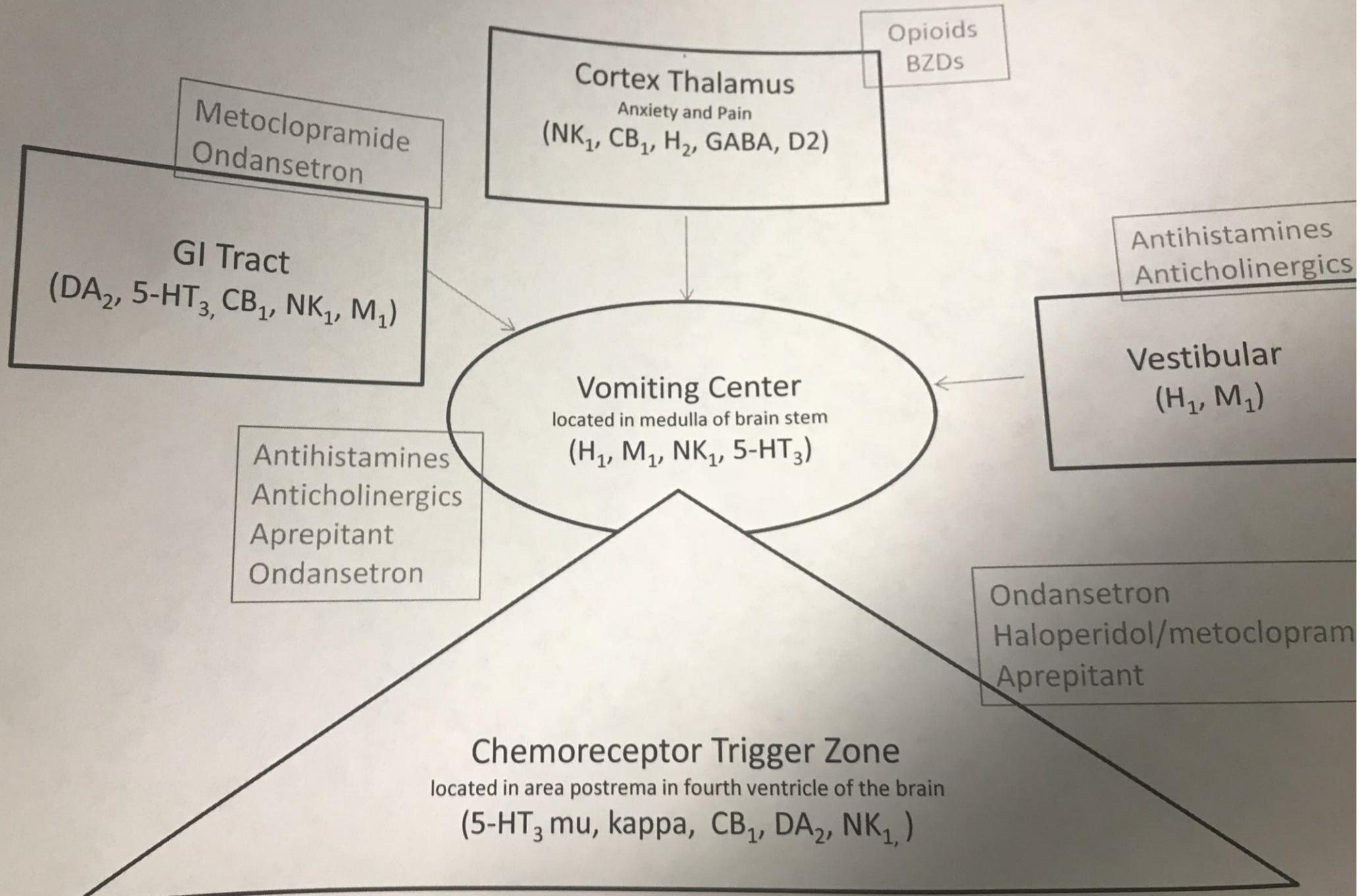
Oral

- Ibuprofen 600mg -800mg q6-8 hours
- Naproxen 550mg q8-12hr
- Meloxicam 15mg daily
- Celecoxib 200mg BID

IV

- Ketorolac 15mg q6h for 3 days

+ PPI or H2 block



Opioids
BZDs

Cortex Thalamus
Anxiety and Pain
(NK₁, CB₁, H₂, GABA, D2)

Metoclopramide
Ondansetron

GI Tract
(DA₂, 5-HT₃, CB₁, NK₁, M₁)

Antihistamines
Anticholinergics

Vestibular
(H₁, M₁)

Vomiting Center
located in medulla of brain stem
(H₁, M₁, NK₁, 5-HT₃)

Antihistamines
Anticholinergics
Aprepitant
Ondansetron

Ondansetron
Haloperidol/metoclopram
Aprepitant

Chemoreceptor Trigger Zone
located in area postrema in fourth ventricle of the brain
(5-HT₃ mu, kappa, CB₁, DA₂, NK₁,)

RELATIVE ACTIONS OF SELECTED ANTIEMETICS

Table 1. Relative Actions of Selected Antiemetic Drugs*¹¹

Product	Dose (mg)†	Relative Antagonist Activity			
		Muscarinic	Histaminic	Dopamine	Serotonin
Scopolamine	(1.5 mg transdermal patch)	++++	+	0	0
Diphenhydramine	25-50/25-50	++	++++	0	0
Hydroxyzine	NA/25-100	++	++++	0	0
Promethazine‡	12.5-25/25	++	++++	++	0
Prochlorperazine‡	2.5-10/5-10	++	++	++++	+
Droperidol	0.625/NA	0	+	++++	+
Metoclopramide	10-20/10-20	0	0	+++	++
Ondansetron	1-4§/16	0	0	0	++++