Process

- Establish who the patient is
 - o If patient is customer ask to confirm their age and weight
 - Child: ask for age
 - Less than 12yo: ask for weight
- How long they have had symptoms for
- Ask them to describe their symptoms
- Differential Dx: Use targeted questions to confirm patient has the condition that can be treated. Question patient on the symptoms experiencing and also possible indications of the symptoms to rule out referrals & also find differential Dx
 - Determining dangerous symptoms referral
 - Ask questions related to the condition presented
 - o Ask questions to rule out any other possible conditions that the symptom may also indicate
- Have they tried anything for their condition
- IF FEMALE: say you have to ask all your female patients this—
 - Are you pregnant or is there a possibility that you are pregnant?
 - Are you currently breastfeeding?
- Do they have any other medical conditions
- Are they taking any prescription medicines prescribed by a doctor
- Are they taking any medications, supplements or over the counter medicines they can purchase from super market or health food stores
- Have they ever experienced any bad effects from taking any medicines
- Do they have allergies to any medicines
- Do they have allergies to anything at all
- Decide to treat the patient ****
- May summarize the information that the patient has given to show active listening & ensure you have gathered the correct information
- Ask the patient if they have a preference on dosage form
- Tell patient to excuse you so you can grab the product
- Greet the patient again: thanks for waiting..
- Tell patient what the medication is
 - Active ingredient
 - o Mechanism of action in laymen terms
 - O Give explanation to how the treatment is appropriate for the client
 - What can the patient expect from taking the medication
 - o Tell patient there is evidence of this and this or that about the product
 - Onset of effects from drugs
- Give instructions for use
 - o i.e. Shake bottle when required*
 - Correct dose
 - If giving child a dose may want to demonstrate how dose is measured and using the correct measuring device
 - o Frequency
 - **Duration**
- Give patients possible side effects
 - o Ensure they are normal or
 - o Side effects that patients should be aware of & if present to seek medical attention
- If treatment fails
 - o If treatment fails, come back and can recommend a different product, or go to GP
 - If symptoms worsens go see GP
- Tell patients of any possible drug interactions medication may have
- Lifestyle advice to manage condition next time or how to manage it now
 - May also want to notify GP of any Sx changes
- Give CMI
- Ask patient if have any questions

Considerations

- Must show empathy to patient
- Must show active listening

Possible oral exam cases

- Pregnancy
 - Morning sickness
 - o Common cold
 - o Headache or Pain
 - o Constipation
 - o Heartburn

- Breastfeeding
 - o Headache or Pain
 - Cough/Colds
 - Constipation
- Children
 - o Common cold
 - Fever
 - Diarrhea
 - o Dyspepsia
 - GORD
 - Reflux
 - o Constipation
 - o Diarrhea
 - Teething
- Elderly
 - Constipation

Normal Adult

- Common cold
 - o Runny nose
 - Sneezing
 - o Nasal congestion
 - o Cough
 - Sore throat
- Allergic rhinitis
- Dyspepsia
 - o GORD
 - Heartburn
 - Children
 - GORD
 - Reflux
- Constipation
- Diarrhea
- Sprain/strain
- Headache
- Osteoarthritis
- Gout
- Period Pain (dysmenorrhea)
- Dry cough
- Productive cough

General referral points

Chest	Gastrointestinal	Musculoskeletal
Chest pain	Difficulty swallowing	Severe impact
Wheezing	Blood in vomit	Inability to weight bear
Blood in sputum	Bloody diarrhoea	Impaired range of movement
Palpitations	Inexplicable weight loss	
Persistent cough	Alternating bowel habit	
Whooping cough	Vomiting with constipation	

Blenkinsopp, Symptoms in the pharmacy (available online via the UQ Library) has an appendix that lists many of these and more.

Common cold—differential diagnoses

Common cold	Bacterial bronchitis	Influenza	Other conditions
Duration 7–10 days	May last > 7 days	7–14 days	Acute otitis media
Worse then gets better	Stable or worsening	Worse then better	Sinusitis
Few systemic symptoms	Pronounced cough	Systemic symptoms	(more)
Mainly upper- respiratory	Protracted cough	Fatigue	
	Might start after cold	Refer very young/old	

GORD—alarm symptoms

GORD	Alarm symptoms	Endoscopy indication*
Retrosternal discomfort	Chest pain	> 55 and first symptoms
Responds to therapy	Lack of treatment response	Family history of Gl cancer
Typically worse after meals	Dysphagia/odynophagia	
	Anaemia	
	Suspected GI bleeding	
	Unexplained weight loss	

^{*}In addition to alarm symptoms

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	T
Intranasal	Beconase Allergy & Hayfever 12 hour
corticosteroid	50mcg/dose (200 doses)
MOA	Produce local anti-inflammatory effects
	Decrease capillary permeability & mucus production via vasoconstriction of the nasal blood vessels
Dose	Children >12yo & adults
	2 sprays into each nostril BD
	When Sx controlled, 1 spray each nostril BD
	Children 6-12yo (S4)
	1-2 sprays each nostril BD
	Reduce to 1 spray each nostril BD when Sx controlled
	No more than 8 sprays total per day
Onset of action	Can expect to see improvement within 3-7 hours of administration
	Optimum effect is seen after 2-3 days of regular use
Side Effects	Local irritation like: nasal stinging, itching, nose bleed, sneezing, sore throat, dry mouth, cough
	High-doses & prolonged use for more than 5 days can cause more severe side effects
Indications	Allergic rhinitis
	Considerations: are you currently taking any other corticosteroids (like for asthma)
	 Yes: consider a non-sedating antihistamine tablet instead
	 No, that's fine
	Safe to use in pregnancy & breastfeeding
Contraindications	Frequent nose bleeds
	Uncontrollable/severe hypertension
Counselling	Do not use for more than 4-5 days as can cause rebound congestion
_	Be mindful to using other products that contain corticosteroids and it can cause more side effects, often more
	severe
	*how to administer nasal spray

Bromhexine (expectorant)

Bronniexine (expectorant)		
Liquid	Bisolvyn chesty Oral Liquid 4mg/5ml	
MOA	Reduces mucus viscosity, & facilitates expulsion of thick mucus secretions	
Dose	Adult: 5-20 ml TID. Max. 60ml per day	
	Child >6yo: 10 ml TID. Max. 30ml per day	
Onset of action	Within 3-6 hours	
	Notice an increase of watery mucus from your airway passages—common as the bromhexine is breaking up thick	
	mucus and thinning it out so you are able to expel it easier by coughing or blowing your nose.	
Contraindication	Children <6yo	
Caution Use	Syrup—caution in those with hyperglycaemia	
	Can disrupt the gastric mucosal barrier as it reduces the thickness of mucus—caution use in those with history of PUD	
	Breastfeeding—some can enter breastmilk—pump milk and freeze in ice tray (3 cubes in sufficient for a feed), or	
	breastfeed immediately after taking dose	
Indication	Common colds, flu	
	Expectorant: break up the mucus for easier expulsion	
	Productive coughs	
	Safe to use in pregnancy	
Side effects	Nausea, vomiting, diarrhoea, allergic reactions	
Counselling	Take it during the day, last dose should be around early evening around 5pm	
	This medication will cause you to cough so don't take it right before bed	
	Drink lots of water throughout the day to help with the productive cough & mucus	
	Do not take at night time as it can increase the risk of infection if you try suppressing the cough and not cough out the	
	mucus	

Budesonide

Intranasal	Rhinocort Hayfever
corticosteroid	32 mcg/dose (120 or 60 doses)
MOA	Local anti-inflammatory effects
	Decrease capillary permeability & mucus production via vasoconstriction of the nasal mucosa
Dose	Children >6yo & adults
	 Initially 4 sprays into each nostril once daily, or 2 sprays into each nostril BD
	Maintenance: 1-2 sprays into each nostril once daily
	Do not exceed 8 sprays per day
Side effects	Headache, dizziness, tiredness, sneezing after spraying or irritated nose, nose bleed, crusting in nasal, dry nose or
	mouth, itching or sore throat, cough
Stop use & see doctor	Swelling of face, lips, mouth, tongue or throat
	Difficulty breathing or wheezing
	Severe rash
	Ulcer or open wound in nose
	Signs of nasal or sinus infections i.e. fever, pain, swelling or discoloured nasal discharge
Indications	Allergic rhinitis
	Considerations: are you currently taking any other corticosteroids (like for asthma)
	 Yes: consider a non-sedating antihistamine tablet instead
	o No, that's fine
	Safe to use in pregnancy & breastfeeding
Contraindications	Frequent nosebleeds
Counselling	Do not use for more than 4-5 days as can cause rebound congestion
	Be mindful to using other products that contain corticosteroids and it can cause more side effects, often more
	severe
	Can start using spray next time if know you will be exposed to an allergen: use before exposure to minimize
	inflammation and Sx of hay fever
	*how to administer nasal spray

Cetirizine (less sedating anti-histamine)		
Dose	Adults & children >12yo: 10mg once daily	
	Children:	
	1-2yo: 0.125mg/kg BD	
	3-6yo: 2.5mg BD or 5mg BD	
	5mg BD or 10mg once daily	
	Take with or without food	
Tablets	Zyrtec (10mg) qty:10	
Liquid	Zyrtec Oral Liquid (1mg/ml) – shake well before use	
MOA	Symptom relief of allergic rhinitis. Stabilizes the chemical modulators that causes the allergic reactions (histamine)	
Onset of action	Within an hour of taking	
	Noticeable therapeutic effect dependent on severity of symptoms	
Contraindicated	Pregnancy & breastfeeding (better to use sedating, but if prefer less sedating, use loratidine)	
	Severe renal impairment, but if have moderate ½ the dose	
Indication	Allergic rhinitis	
	Chronic urtricaria	
	Use oral liquid for children (give patients a choice)	
Side effects	Well tolerated but less sedating, but can still cause drowsiness	
	Drowsiness, fatigue, dry mouth, headache, nausea	
	Rare: hypersensitivity & rash	
Counselling	Medication may make some people drowsy even though it is less sedating, do not operate a vehicle or heavy	
	machinery or be involved in any activities that require full attention	
	Effective in relieving itch that's caused by histamine release	
	Avoid drinking alcohol	

Dexchlorpheniramine (sedating antihistamine)

Dexchlorpheniramine	e (sedating antihistamine)
Dose	Adult & children >12yo: 2mg every 6 hours max. QID. Once Sx are relieved can reduce to 1mg q6hr
	Children: (use syrup only)
	6-12yo (common cold & allergies): 1mg 4 times daily
	2-6 yo (allergies): 0.04mg/kg 3 times daily
	Take with full glass of water, before or after food
Tablets	Polaramine Colour Free Tablets (2mg) qty: 20 or 40
	Swallow whole, do not crush or chew
Syrup	Polaramine (2mg/5ml) – shake well before use
-7 - F	Contains sugars—becareful of use in those with hyperglycaemia
MOA	Sedating antihistamine
	Reduce symptoms of common cold and allergic rhinitis
Onset of action	Few hours within administration
Contraindicated	Children <2yo (allergies: use less sedating, sedating can cause sudden infant death syndrome)
	Children <6yo (common cold Sx—cough and cold: no evidence of effectiveness, more risks than benefits)
	Elderly (use less sedating antihistamines; sedation can cause increased risk of adverse effects)
	Precaution: glaucoma, hyperthyroidism, bladder obstruction, PUD
Indication	Pregnancy (preferred antihistamine—can be used as antiemetic & allergic overdose; no evidence of fetal AE with use)
	Breastfeeding: short term use is relatively safe, some polaramine can get into the breast milk but short term use is ok—
	main concern is sedation in mother
	Must monitor for infant sedation & irritability
	Common cold adults & children >6yo—sedation, sneezing, runny or itchy nose
	AR: sneezing, itching eyes, runny nose
Side effects	Sedation, impaired alertness, cognition, learning, memory and performance, dizziness, confusion, headache, blurred
	vision, mydriasis, dry eyes, dry mouth, urinary retention
	Nausea & vomiting, diarrhoea, hypotension
	Children especially: can stimulate the CNS but is rare—hallucinations, seizures, excitation, restlessness, nervousness
	Chest tightness, upset stomach, loss of appetite
Stop medication &	Chest pain, sudden signs of allergic reactions—rash, hives, swelling of face, lips, mouth, tongue, or throat, dysphagia, or
seek doctor	difficulty breathing
Counselling	Medication may make you sleepy, do not operate or drive machinery
	Avoid alcohol and other medications that may cause sedation
	Can cause hypersensitivity of the skin, as a precaution, avoid sun especially during afternoon when the sun is at its
	peak—wear a sunscreen with spf 30+, use a hat
	Dry mouth for more than 2 weeks; see dentist or doctor

Dextromethorphan (antitussive)

Description phan (antitussive)		
Oral Liquid	Bisolvon Dry 10mg/5ml	
MOA	Suppresses the medullary cough center in the CNS—Sx relief of non-productive cough	
	Opioid derivative – MAY have addictive properties but very low	
Dose	Adult: 5-10ml q4h or 15ml q6-8h. Max: 4 doses daily	
	Children >6yo: 7.5ml q6-8h. Max: 4 doses daily	
Onset of action	Within a few hours of administration	
Contraindication	Productive coughs	
	Asthma, respiratory failure, pneumonia, shallow breathing	
	Fructose intolerance	
	Within 14 days of taking MAOI	
	Children <6yo	
	Irritant, dry cough >1mo	
Caution Use	Hepatic impairment—requires dose reduction	
	Elderly—requires dose reduction	
Indication	Tx of dry, irritating coughs—cough suppressant	
	Safe to use in pregnancy	
Side effect	Drowsiness, constipation, nausea, vomiting	
	Rare: respiratory depression	
Counselling	Shake well before each use	
	Use proper measuring device (show patient how to use)	
	Stop use if cough persists for more than 1 week before continuing medication	
	Medication can cause drowsiness or dizziness therefore take for a few days to see how body responds before operating	
	vehicle or heavy machinery	
	Avoid alcohol as it can worsen the side effects	
	May want to take an osmotic laxative as it can cause constipation	
	Drink lots of water	

Diclofenac (NSAID)

Diclofenac (NSAID)	
Tablets	Voltaren Rapid (12.5mg) qty: 20
	Voltaren Rapid (25mg) qty: 20
MOA	Analgesic, anti-inflammatory & anti-pyretic
	Block the enzymes involved in producing the chemicals that cause pain and inflammation
Tx	Rheumatoid arthritis
	Osteoarthritis
	Pain due to inflammation (dysmenorrhoea)
	Can be used for sprains and strains (less likely as a more local NSAID is used i.e. topical)
Dose	Adult: 75-150mg daily in 2 or 3 doses
	Children: 1-3mg/kg daily in 2 or 3 doses
	12.5mg: 75mg daily in divided doses
	25mg: 50-100mg initially, then 50mg tds for 3 days
	Take with food to decrease risk of GI irritation
	Swallow whole, with glass of water
	Short term use only
Onset of action	Within
Contraindication	NSAID hypersensitivity & NSAID-induced asthma
	Active PUD, GI bleed
	Third trimester of pregnancy (AE in infants & complications during labour)
	Triple Whammy (NSAID + ACEI + Diuretics)
Caution	Heart failure, hypertension, asthma—risk of exacerbation
	Elderly—increased risk of AE
	Hepatic impairment (if severe its contraindicated)
	Renal impairment: exacerbation & bleeding (avoid, or use minimal effective dose & monitor renal function)
	Oral corticosteroids—increase risk of GI ulceration
	Lithium, digoxin, methotrexate – avoid or monitor closely
	Anticoagulants, antiplatelet medicines, SSRIs: increase risk of bleeds
Avoid	Dehydration
	Cardiovascular disease: hypertension & heart failure
	Hx of GI bleed or use with extreme caution
	IBS—can worsen
Indication	Breastfeeding (NSAID of choice during lactation)
Side effects	Increased risk of: GI bleed, peptic ulcer, stomach irritation, MI or stroke
	Common: GI upset, headache, dizziness, nausea, diarrhoea, dyspepsia, salt & fluid retention, rashes, confusion
	Rare AE: hypersensitivity reactions, extensive bruising
Counselling	Avoid drinking alcohol
-	Do not take medication if you are dehydrated especially in children and elderly
	If develop swollen ankles, difficulty breathing, chest pain, black tarry stool, or vomit looking like coffee grounds, stop
	medication and seek immediate attention from a doctor

Docusate Sodium + Senna

Tablets	Coloxyl with Senna (50mg/8mg) qty 30
	Stool softener & stimulant laxative
MOA	Soften stools and stimulate the motility of the intestines to promote defecation
Тх	Constipation (short term relief of constipation—for prophylactic use, use other laxatives; especially for opioids causing constipation—movicol)
Dose	Adult: 2 tabs at night time
Onset of action	Should be able to go the next day upon waking (maximum effect in 1-3 days upon taking)
	If doesn't work, take 4 tablets the next night.
	Try for 2 nights & if do not work, see GP
Contraindicated	Pregnancy
Side effects	Abdominal discomfort, gas & cramping, diarrhoea, fluid and electrolyte imbalances with prolonged use or excessive doses, nausea
Counselling	If no improvement within 3 days or if develop alarming Sx—severe abdominal pain, anorexia, vomiting, blood/mucus in stool seek medical attention
	Can decrease the effects of other medicines taken at the same time
	Good diet, exercise, adequate water intake (RDI: 6-8 glasses a day, more in hot weather, high fiber diet requires more
	water)

Fexofenadine (less sedating antihistamine)

Tablets	Telfast (120mg) gty: 10 or 30
MOA	Stabilises the effects of histamine
Dose	Adult: 120-180mg daily 180mg daily for uticaria
	Children:
	6mo-2yo: 15mg BD
	2-11yo: 30mg BD
	Renal impairment: adult ½ dose, children change BD to OD
Caution Use	Elderly: increase risk of sedation and anti-cholinergic effects—prefer sedating (if use require monitoring)
	Pregnancy – use sedating anti-histamine or loratidine if prefer less sedating antihistamine
	Breastfeeding is not recommended (APF), AMH says it is safe to use
	Renal impairment
Indication	Allergic rhinitis & urticaria: runny, itchy, blocked nose, sneezing and itchy, watery and red eye, hives
Side effects	Drowsiness, fatigue, headache, nausea, dry mouth
	Rash, hypersensitivity
Counselling	Medication may not work as well if you drink grapefruit juice within 4 hours of taking medication
	Medication can cause people to be sleepy even though it is less sedating, it can still cause drowsiness in some individuals; do
	not drive or operate machinery until you know how you respond to the medication or if drowsiness do occurs

Guaifenesin (Expectorant)

dualicities in (Expection and)	
Liquid	Robitussin Chesty cough Oral Liquid (20mg/ml)
Tx	Productive cough
MOA	An expectorant so it will facilitate the expulsion of mucus
Dose	10-20mL q4h prn (max 6 doses daily)
Onset of action	Rapid within an hour of taking it
Side effects	Nausea & vomiting
Seek attention	Recurring cough
if	Tx fails
	If cough persists for >3 weeks
	Sputum colour progresses to thick, yellow, green, or blood—stained
	If illness worsens (systemic symptoms—fever, wheeze, shortness of breath, chest pain)
	Nocturnal cough
Counselling	Rest
	Fluids—hydration can help to reduce cough and assist with the action of the medication
	Could try honey and lemon
	Steam inhalations can promote expectorant
	Non-medication lozenges

Ibuprofen (NSAID)

ibuprofen (NSAIL	
Tablets	Nurofen 200mg
Liquid	Nurofen for Children 1-5years suspension (100mg/5ml)
	Nurofen for Babies 3mo+ Suspension (200mg/5ml)
Tx	Antipyretic, analgesic, anti-inflammation
	Dysmenorrhoea, pain, inflammation
MOA	
Dose	OTC
	Max adult dose: 1200mg per day – 6 tablets daily
	Max children dose: 40mg/kg/day or 4 doses per day
	Adult
	200-400mg 3-4 times daily
	Children >3mo
	5-10mg/kg 3 or 4 times a day
	Use 10mg/kg
	Swallow tablet whole with full glass of water, can be taken with food to reduce gastric irritation
Onset of action	Within a few hours of administering medication
Precaution	Drug interactions: combination with diuretic and ACEI is contraindicated, anticoagulating medicines, other NSAIDs,
	corticosteroids (increases risk of GI ulceration)
	Caution use in: renal impairment, hepatic impairment, elderly, children
	Pregnancy: contraindicated in 3 rd trimester; prefer to use another analgesic
	Safe to use in breastfeeding
Side effects	Common: Stomach upset, abdominal pain, dyspepsia, nausea, vomiting, diarrhoea, dizziness, fluid retention, increased heart
	rate, increase blood pressure
	Can cause: gastric ulcers, GI bleeds, increase the risk of MI or stroke, hypertension
	If see alarming Sx or worsening of Sx or persistent pain, vomiting, nausea, black tarry stools, vomit that looks like coffee grounds
	seek medical attention immediately
Counselling	Take with food to reduce stomach irritation
	Drink lots of fluids
	Can take with paracetamol
	Be careful not to take any other products containing an NSAID or ibuprofen

Ibuprofen + Codeine

	adploten - codeme	
Tablets	Nurofen plus 200mg/12.8mg	
Tx	Antipyretic, analgesic, anti-inflammatory	
	Codeine: anti-tussive (dry cough)	
Dose	Adults	
	1-2 tablets q4-6h	
	Maximum 6 tablets per day	
Precaution	Drug interactions	
	Other medications that contain ibuprofen and codeine	
	Not to be used in breastfeeding	
	Can be used in pregnancy, not in 3 rd trimester	
Side effects	Codeine: nausea, vomiting, dry mouth, constipation	
Ibuprofen &	Increased risk of GI bleed, ulceration	
codeine MUST	Constipation	
mention	Drowsiness & dizziness—do not operate vehicle or machinery	
	Lots of drug interactions for either or	
	Renal & hepatic impairment require monitoring and dose reduction	

Lactulose

Lactulose	
Syrup	Actilax 3.34g/5ml
Tx	Constipation
MOA	Draws water into colon (osmotic laxative) & soften the stool
	Can be used long term
	24-72 hours within administration
Dose	Adults:
	Initially 15-45ml daily in one or two doses, then 15-30mL daily to maintain
	Children
	1-11mo: 2.5mL BD
	1-5y: 2.5-10mL BD
	>5yo: 5-20mL BD
	1.5ml/kg BD may be required (if go by weight)
	Do not exceed 60mL daily
	Works best if taken with full glass of water
	Can take with milk or juice
	Can be diluted
Precaution	Can be used when breastfeeding and during pregnancy
	Caution use in diabetics
	Contraindicated in bowel obstruction, those that require low galactose diet or lactose intolerant
Side effects	Mild bloating, gas and abdominal cramps, diarrhoea
Counselling	Adequate water intake to facilitate the laxative
	Dietary changes
	Exercise regularly
	Increase fibre intake

Loperamide

Capsule	Imodium 2mg
Tx	Anti-diarrhoeal
	Traveller's diarrhoea
MOA	Makes stool more solid
	Normalizes muscle contraction of intestine
	Give bowel time to absorb water from fluid
Dose	Adults only, not given in children <12yo
	Initially take 2 capsules , then one capsule daily after each loose stool as needed
	Do not exceed 8 capsules a day
Precaution	Pregnancy: contraindicated in 1st trimester—use short term otherwise
	Breastfeeding: safe to use
	Caution use in hepatic impairment
	Avoid in sever IBS
Side effects	Constipation, nausea, vomiting, abdominal pain, gas, bloating
	Rare: dizziness, blurred vision, headache, dry mouth, hypersensitivity, drowsiness, respiratory depression
Counselling	Should stop diarrhoea within 48 hours; use only for short periods
	If any Sx worsen or are persistent see GP as it may be cause for something else
	Do not operate vehicle or machinery as can cause drowsiness
	Drink plenty of fluids to avoid dehydration
	**constipation lifestyle advice
	**alarming Sx to look out for

Loratadine (Less sedating antihistamines)

Ediatadine (Leas Sedating diffinistationes)	
Dose	Adult & child 2yo >/=30kg: 10mg daily
	Children:
	1-2yo: 2.5mg once daily
	2yo <30kg: 5mg once daily
	Hepatic impairment: give dose on alternate days
Tablet	Claratyne (10mg) qty: 10
Syrup	Claratyne (peach flavour): 1mg/ml
MOA	Reduces the effects of histamines released during an allergic reaction
Contraindication	First trimester of pregnancy
Caution use	Hepatic impairment
	Elderly: higher risk for sedation & anticholinergic effects—requires monitoring (sedating antihistamines better tolerated)
Indication	Allergic rhinitis & urticaria
	Pregnancy: preferred less sedating antihistamine
	Breastfeeding: preferred less sedating antihistamine
Side effects	Headache, sedation, dry mouth, nausea, drowsiness, fatigue
	Rash & hypersensitivity (bronchospasms)
Counselling	May cause drowsiness
1	Take a few days if you know you will be exposed to known allergen

Macrogol 3350 (Osmotic laxative)

Macrogol 3350	Macrogol 3350 (Osmotic laxative)	
Sachet	Movicol 13.125g (10)	
	Movicol 13125g (30)	
	Movicol Half 5.9g (30)	
Tx	Comfortable bowel movement	
	Works in faecal impaction	
	Remains unabsorbed in the large intestine and will draw water into the intestine	
Dose	Constipation	
	Adult	
	-Movicol: 1 sachet a day; if required increase to 2 or 3 sachets per day	
	-Movicol half: 1-6 sachets per day	
	Child	
	Movicol Half	
	6-11y: 2 sachets per day	
	2-5y: 1 sachet per day	
	Faecal Impaction	
	Adult	
	-8 sachets daily (Movicol half—16 sachets daily); take within 6 hours, can be repeated up to 3 days	
	-If have cardiovascular disease: 2 sachets/hr (Movicol half 4 sachets per hour)	
	6-11y: Movicol Half—4 sachets on first day then can increase up to 12 sachets per daily if req. (up to 7 day Tx)	
	2-5yo: Movicol Half—2 sachets on first day, then as required can increase to 8 sachets daily (up to 7 day Tx)	
	Mix 1 sachet into 125ml of water until powder dissolves and drink	
Precaution	Contraindication: intestinal obstruction	
	Little absorption in pregnant woman but not enough to do harm thus can be used	
	Decrease dose in renal and hepatic impairment	
	Caution use in cardiovascular diseases	
	Safe to use in breastfeeding	
Side effects	Nausea, vomiting, diarrhea, anal irritation, abdominal distention, cramps, pain, stomach rumbling	
	Rare: allergic reactions, fluid and electrolyte disturbances	
Counselling	Can affect the absorption of other medications you are currently taking—decreasing the effects of other medications	
	Should be able to go within 1-2 hours of taking Movicol	
	Increase fluid intake to facilitate osmotic effect of movicol	
	If taken on an empty stomach can have a faster onset	
	Increase fibre intake (except in opioid induced constipation)	
	If get bad diarrhea stop taking Movicol until it clears	
	Recurrence of constipation—refer	

Naproxen tablets (NSAID)

Tablets	Naprogesic 275mg (24) – Naproxen sodium
Tx	Rheumatoid arthritis, osteoarthritis
	Dysmenorrhoea
MOA	Analgesic, antipyretic, and anti-inflammatory
	Block the pain pathway from sending signal that causes you to feel pain
Dose	275-550mg BD Max. 1275mg daily
	Period pain: 550mg initially, then 275mg q6-8h prn
	Migraine: 3 tabs initially then 1-2 tablets after at least 1 hr prn
Precaution	Can worsen: Dehydration, asthma, coagulation disorders, bruising, IBS
	Contraindicated: PUD or GI bleed, hypersensitivity reactions (severe asthma)
	Caution: renal impairment, hepatic impairment, elderly, pregnancy (contraindicated in 3 rd trimester), breastfeeding (appears
	safe)
Side effects	Nausea, dyspepsia, GI ulceration, Gi bleed, diarrhoea, headache, dizziness, salt & fluid retention, hypertension
	Infrequent: confusion, rash, oesophageal ulceration
	Rare: blurred vision, hypersensitivity
Counselling	Drug interactions: do not use in combination with ACEI and diuretics, corticosteroids can exacerbate effects of ulcers
	Black tarry stools, or vomit that looks like coffee grinds –refer *alarming Sx to look out for depending on condition
	Drink lots of fluids
	Take with food to avoid stomach irritation
	Used short term only

Oral rehydration salts

Sachets	Gastrolyte qty:10
Tx	Fluid and electrolye loss associated with diarrhoea
MOA	Provide fluid, electrolyte & glucose replacement
Precaution	Contains aspartame
	Can be used in pregnancy & breastfeeding
Dose	1 sachet in 200mL water
	Infants: use freshly boiled and cooled water
	Stir well and drink small amounts frequently
	Children
	5-9kg: 200-400 mL first 6 hours then 150-210mL every 6 hours
	10-14kg: 400-800mL in first 6 hours then 300-420mL q6h
	15-19kg: 800-1000mL first 6h then 450-630ml q6h
	20-29kg: 900-1500mL first 6h then 600-840mL q6h
	30kg(adult): 1000-2000ml first 6 hours then 900-1260mL q6h
	Discard made up solution after 1 hour or refridgerate for up to 24h or less
Counselling	Well tolerated
	Children can dehydrate rapidly—careful monitoring is required; continued large fluid loss or inability to tolerate fluid
	replacement should seek medical attention
	Replacement solutions may be better tolerated if frozen

Oxymetazoline

Intranasal	Drixine decongestant Nasal Spray No drip 0.5mg/ml
decongestant	
MOA	Vasoconstriction of the nasal mucosa; decrease nasal blood flow and congestion
	Relief of nasal congestion with acute rhinitis, common cold, sinusitis
Dose	Adult & children >6yo:
	1 or 2 sprays into each nostril TID. Do not exceed 6 sprays daily
Onset of action	Few hours within administration
	Optimal response in few days
Caution Use	Avoid use in pregnancy & breastfeeding due to long acting effects
	Avoid use in children <6yo: rebound congestion may cause breathing difficulties, CNS effects
Indication	Decongestant for common cold, rhinitis
Side effects	Nasal irritation: transient burning, stinging, increased nasal discharge
	Rebound congestion with prolonged use
	Rare: hypertension, nausea, nervousness, dizziness, insomnia, headache
Counselling	Do not use for more than 5 days as it can cause rebound congestion, use for only 5 days will minimize risk of rebound
	congestion
	Recommend use of an intranasal saline spray for congestions in infants to loosen and liquefy mucus secretions
	*how to use nasal spray

Pantoprazole

Tablets	Somac Heartburn Relief 20mg (14)
Tx	Heartburn, dyspepsia, GORD, PUD, reflux
	>2 episodes per week
MOA	Proton pump inhibitor, inhibit the secretion of gastric acid
	Will work within few hours of taking it, but will not give instant Sx relief; full effect seen within a few days of taking it
Dose	Prevention of NSAID associated dyspepsia, PUD or erosion: adults 1 tablet daily
	Children >5y
	19-35kg: 20mg OD
	>35kg: 20-40mg OD
	Swallow tablet whole, do not crush or chew
	Take for 14 days—Sx should be relieved
Precaution	Pregnancy: Used only if antacids and H2 antagonists are ineffective. Omeprazole is PPI of choice
	Breastfeeding: use with caution if antacids and H2 antagonists are ineffective
	Interactions: methotrexate—caution use
	Reduce dose if have hepatic impairment
Side effects	Abdominal pain, diarrhea, gas, nausea, vomiting, constipation, headache
	AE: blurred vision, metallic taste, rash, dizziness, increase sweating, fatigue
	Rare: hallucinations, anaemia, depression, confusion
Counselling	Avoid alcohol (limit intake)
-	Aspirin and other NSAIDs can irritate the stomach and worsen Sx
	Avoid caffeine and caffeine containing foods and drinks—tea and coffee, chocolate, pop
	Smaller and frequent meals—eat slowly and carefully chew food
	Stop or cut down on smoking
	Exercise, adequate fluid intake
	Elevate bed head

Paracetamol

Paracetamoi	
Tablets	Panadol 500mg
Baby drops	Childrens Panadol 1mo-2yo (100mg/5ml)
Suspension	Children's Panadol 1-5yr (120/5ml)
Liquid	Dymadon Children's 2-12yo (250mg/5ml)
Tx	Analgesic, antipyretic
	Mild to moderate pain
	Fever
MOA	Unsure
Dose	Adult & children >12yo
	1 to 2 tablets q4-6h Maximum. 8 tablets daily (4g)
	Children >1mo
	15mg/kg (max 1g per dose) q4-6h
	Max. 60mg/kg (max 4g) per day up to 48 hr
Precaution	Can be used in pregnancy & breastfeeding
	Hepatic & renal impairment use with caution—paracetamol can further cause liver damage
	Caution use with warfarin
	Can be used with NSAIDs
	Sodium restriction—paracetamol contains large amount of sodium
Side effects	Liver damage*main concern
	Rare: hypersensitivity, bleeds
Counsel	Avoid alcohol
	Max. of 4g (8x500mg tablets) in 24 hrs
	Onset of pain relief is approx. 30 min after oral admin.
	Be aware of different strengths of paed. products avail.
	May be used in all age groups
	Preferred to NSAIDs for mild to mod. Pain
	Regular use alone inadequate can add NSAID for pain
	Many brands of Paracetamol, and other medicines that may also contain Paracetamol, always check labels to avoid
	overdosing
	Ibuprofen + Paracetamol combined to Tx fever in children not recommended
	Children & infant with low grade fevers don't necessarily have to be Tx with Paracetamol, fluids and comfort may suffice

Paracetamol + Pseudoephedrine

Tablets	Panadol Sinus relief (Original formula) 500mg/30mg
Tx	Sinus congestion & pain
	Nasal congestion & runny nose
	Common cold Sx relief
MOA	Paracetamol: blocks pain pathway
	Pseudoephedrine: Vasoconstrictor (sympathomimetic decongestant)
	Reduce congestion—runny nose, nasal passage and sinus
Dose	Adults & children >12y
	2 tablets q6h do not exceed 8 tablets in 24h
Precaution	Not to be used in children younger than 12 yo; for children 12-17 only use for 48 hours
	Pregnancy: not recommended
	Breastfeeding: use with caution—may suppress lactation
	Caution use in: hypertension, hepatic and renal impairment, diabetics
	Drug interactions: warfarin, antidepressants
Side effects	Nausea, drowsiness, insomnia, dizziness, increased BP, tachycardia, fluid retention, headaches
Counselling	If see any of the following Sx seek medical attention immediately: shortness of breath, wheezing or difficulty breathing,
	swelling of face, lips, tongue, unexplained bruising or bleeding, severe headache, abdominal pain, or black tarry stool
	Medication can cause drowsiness so avoid operating vehicle or heavy machinery
	Paracetamol and pseudoephedrine are both contained in a lot of other products, read labels carefully before taking another
	product – to avoid OD
	Drink lots of fluids
	Rest when necessary
	Avoid drinking alcohol

Paracetamol + Phenylephrine + Codeine

Tablets	Codral Cold & Flu (New formula) 500mg/5mg/9.5mg
Tx/MOA	Analgesic, antipyretic
	Nasal congestion
	Cough
	Paracetamol: reduce pain and reduce fever
	Phenylephrine: vasoconstriction to reduce congestion in nose, nasal passages, sinuses, easier to breath
	Codeine: opioid analgesic, blocks pain
Dose	Adult & children >12yo
	2 tablets q6-8h. Do not exceed 8 tablets daily
	Use for only up to 3 days
Precaution	Do not use in pregnancy or breastfeeding
	Hypertension, diabetes, CV disease, renal and hepatic impairment
	Contraindicated: MAOIs
Side effects	May cause drowsiness, skin rash, urinary retention, constipation, hypersensitivity, nausea, vomiting, GI upset, dizziness
	Rare: respiratory depression
Counselling	Avoid alcohol
	Drink plenty of fluids
	Other products may contain paracetamol and codeine in them, be sure you are not taking other products with them

Paracetamol + Pseudoephedrine + Codeine

Tablet	Codral Original Cold & Flu tablets 500mg/30mg/6mg
Tx/MOA	Decongestant, analgesic, antipyretic
	Symptom relief from cold & flu without drowsiness
	Paracetamol: reduce pain and reduce fever
	Pseudoephedrine: vasoconstriction to reduce congestion in nose, nasal passages, sinuses, easier to breath
	Codeine: opioid analgesic, blocks pain
Dose	Adult & children >12yo
	2 tablets 3-4 times daily. Do not exceed 8 tablets daily
	Do not use in children < 30kg or <10yo: dose for pseudoephedrine in 1 tablet is greater
	Use only up to 3 days
Precaution	Do not use in pregnancy or breastfeeding
	Hypertension, diabetes, cardiovascular disease, renal and hepatic impairment, respiratory impairment, COPD, etc
	Contraindicated: MAOIs
Side effects	May cause drowsiness, skin rash, urinary retention, constipation, hypersensitivity, nausea, vomiting, GI upset, dizziness
	Rare: respiratory depression
Counselling	Avoid alcohol
	Drink plenty of fluids
	Other products may contain paracetamol and codeine in them, be sure you are not taking other products with them

Day: paracetamol + pseudoephedrine + codeine | Night: paracetamol + pseudoephedrine + triprolidine

Tablets	Codral Original Day & Night Cold & Flu Tablets
	Day: 500mg/30mg/6mg
	Night: 500mg/30mg/1.25mg
MOA/Tx	Paracetamol: reduce pain and reduce fever
	Pseudoephedrine: vasoconstriction to reduce congestion in nose, nasal passages, sinuses, easier to breath
	Codeine: opioid analgesic, blocks pain
	Triprolidine: antihistamine—reduce allergic symptoms
Dose	Adult & children >12y
	Day: 2 white DAY tablets, once in the morning and once in the afternoon
	Night: 2 blue NIGHT tablets at bedtime
	Use for up to
Precaution	Refer to paracetamol, pseudoephedrine, codeine and antihistamines
	Avoid in pregnancy
	Do not use in breastfeeding
	Drug interactions
	Hypertension, renal & hepatic impairment, diabetics, glaucoma, asthma—CAUTION use
Side effects	Nausea, vomiting, dyspepsia, constipation, drowsiness, sleepiness, dizziness, nervousness, excitability, dry mouth, restlessness
	Rare: respiratory depression
Counselling	Take for a few days, if Sx worsen or do not get better see GP
	Sx that required medical attention: shallow breathing, breathlessness, wheezing, tachycardia, rash, swelling of face
	Do not drink alcohol
	Do not operate a vehicle or heavy machinery as it can cause drowsiness or dizziness
	Drink plenty of fluids
	Rest

Paracetamol + Codeine

Tablets	Panadeine (500mg/8mg) qty: 24
Tx/MOA	Antipyretic, analgesic
	Temporary relief of pain
	Cold & flu—reduce fevers
Dose	Adults & children >12: 2 tablets q4-6h prn
	Do not exceed 8 tablets daily
	Do not take more than 2 tablets in 4 hour
	Do not use for more than 3 days
Precaution	Can be used in pregnancy
	Avoid in breastfeeding
	Hepatic & renal impairment use with caution—paracetamol can further cause liver damage
	Caution use with warfarin
	Can be used with NSAIDs
	Sodium restriction—paracetamol contains large amount of sodium
Side effects	Heartburn, nausea, vomiting, constipation, dizziness, skin rash
	Rare: respiratory depression
Counselling	Drink plenty of fluids
	Avoid alcohol
	Can cause drowsiness; avoid operating vehicles or heavy machinery

Phenylephrine

Capsule	DimeTapp PE Nasal Decongestant 10mg
Tx	Nasal decongestant
MOA	Vasoconstriction (sympathomimetic)
Dose	Adult & children >12yo: 1 capsule q4h. Max 6 capsules daily
	Children >6yo: 2.5-5q4h
Precaution	Avoid use in children under 6yo
	Pregnancy: not recommended. Avoid in first trimester
	Breastfeeding: use with caution—suppresses lactation, may cause irritability, restlessness and disturbed sleep in infants
	Hypertension, diabetics, glaucoma (closed-angle)
	Elderly
	Interactions: MAOIs contraindicated with or must wait 14 days after stopping MAOI
Side effects	CNS stimulation, nausea, vomiting, nervousness, excitability, dizziness, insomnia, tremor, tachycardia, palpitations,
	hallucinations, arrhythmias, hypertension, seizures, hypersensitivity
Counselling	If you notice any of the following seek medical attention immediately: shortness of breath, wheezing, difficulty breathing,
	swelling anywhere on face, rash, itching or hives
	Included in many other products, read product label carefully to avoid OD
	Does not cause rebound nasal congestion like INCS
	Potential for misuse and addiction

Pholcodine

Linctus	Gold cross Pholcodine Linctus 1mg/ml
Tx	Anti-tussive for dry cough
	Depress the cough center in the central nervous system to stop non-productive cough
Dose	Adult: 10-15mg 3 or 4 times a day
	Child >6y: 5-10mg 3-4 times a day
Precaution	Elderly
	Hepatic impairment
	Contraindicated in children less than 6yo
	Pregnancy: safe to use
	Breastfeeding: can be used, must monitor baby for drowsiness, sleep disturbance and constipation
	Respiratory function compromised
Side effects	Drowsiness, constipation, nausea, vomiting
	Can cause respiratory depression
Counselling	Avoid taking alcohol—it may increase the feeling of drowsiness
	Medication may cause drowsiness, do not operate or drive machinery
	Do not use in a productive cough
	Adequate fluid intake

Poloxamer

Тотохаттет	
Solution	Coloxyl drops 10%
Tx	Constipation—stool softener in infants and young children
Dose	TID
	<6mo: 10 drops
	6-18mo: 15 drops
	18mo-3y: 25 drops
Precautions	Prolong use can lead to dependence
	Do not use if child is dehydrated, vomiting, or has nausea. Intestinal obstruction
	Interactions: can increase absorption of other laxatives
	Long term use can lead to potassium leaking out—diarrhoea, excessive water loss & electrolytes
Side effects	Abdominal cramps, gas, diarrhoea if used excessively
Counselling	Temporary use only
	Increase fiber intake
	Increase fluid intake
	Healthier diet
	Exercise
	Use the washroom more frequently
	Condition to go when feel the urge to go

Pseudoephedrine

тэсааосрпсатие	
Tablet	Sudafed Sinus & nasal decongestant tablets 60mg
Tx	Nasal decongestant
MOA	Vasoconstriction (sympathomimetic)
Dose	Adults: 1 tab q4-6h Max. 4 tablets per day
	Children >6yo: 1mg/kg 3-4 times daily
Precaution	Avoid use in children under 6yo
	Pregnancy: not recommended
	Breastfeeding: use with caution—suppresses lactation, may cause irritability, restlessness and disturbed sleep in infants
	Hypertension, diabetics, glaucoma (closed-angle)
	Elderly
	Interactions: MAOIs contraindicated with or must wait 14 days after stopping MAOI
Side effects	Insomnia, headache, nervousness, palpitations, sweating & flushing, excitability
	Others: CNS stimulation, tremor, tachycardia, hypertension, hallucinations, seizures
Counselling	If you notice any of the following seek medical attention immediately: shortness of breath, wheezing, difficulty breathing,
	swelling anywhere on face, rash, itching or hives
	Included in many other products, read product label carefully to avoid OD
	Does not cause rebound nasal congestion like INCS
	Potential for misuse and addiction

Ranitidine

Tablets	Zantac 12h Action 150mg (14)
Tx	GORD, PUD, dyspepsia
MOA	Reduces the secretion of acid via blocking one pathway
Dose	150mg BD q12h
	Take with or without food, swallow whole
Onset	Slow but longer DOA
Precautions	Drug interactions: NSAIDs
	Individuals on strict low sodium diet—tablet contains sodium
	Can be used in pregnancy and breastfeeding
Side effects	Usually well tolerated
	Common: headaches, dizziness, nausea, vomiting, constipation, joint pain
	If experience any of the following seek immediate attention: allergic reaction (rash, shortness of breath), stomach pains,
	fever, tachycardia, black tarry stool, vomit that looks like coffee grounds
	*lifestyle advice for GORD
	Avoid certain foods—acidic foods (grapefruit, tomatoes), coffee & tea, pop, spicy foods, alcohol, chocolate, high fat & large
	meals
	Eat smaller meals
	Drink water after meals instead of during meals
	Don't lie down right after a meal; do not eat 2-3 hours before bed time
	Raise the bed head so your head is elevated to prevent risk of reflux
	Exercise, eat healthy, drink water
	Decrease stress
	Stop smoking & drinking

Sodium alginate, calcium carbonate, sodium bicarbonate

oo arann albinate)	odiani alginate, calciani carbonate, sodiani bicarbonate	
Liquid	Gaviscon Cool Liquid 500mg/160mg/267mg per 10ml	
Tx	Antacid for reflux, GORD, heartburn, dyspepsia	
	Neutralise gastric acid in stomach	
Dose	Adults & children >12yo: 10-20mL	
	Children 6-12y: 5-10mL	
	After meals and before bed or when you think Sx may occur Up to 4 times daily	
	Optimum effect if taken 1-3 hours after meals	
Precaution	Product contains calcium, so limit calcium supplements up to 1g	
	Pregnancy can be used—safest to treat heartburn in pregnancy	
	Caution use in renal impairment—calcium can accumulate in kidneys and cause toxicity; sodium can increase risk or	
	exacerbate renal failure (contraindicated)	
	Avoid use in low sodium diet	
Side effects	Diarrhoea	
Counselling	Alarm Sx	
	Drink water	
	Healthy diet	
	Exercise	
	Avoid foods that can exacerbate Sx	

Sodium chloride isotonic

Nasal spray	Fess Nasal Spray 7.04mg/ml
Tx	Nasal congestion
	Intranasal saline
MOA	Liquefy mucus in nasal cavity to allow expulsion upon nose blowing
Counselling	Can be used in association with other medicated sprays to relieve congestion
	**how to use nasal spray

Administering Intranasal Sprays

- 1. Clear nasal passages before administration—blow your nose
- 2. Shake the bottle and prime the spray if this is a first use spray by spraying dose into air until a consistent mist is made
- 3. Bend neck slightly forward & look down
- 4. Place nozzle into on nostril and aim towards the outside wall
- 5. Spray 1-2 times along the outside wall, and gently sniff. Avoid sniffing too hard that contents go straight down throat, and not too soft that it does not reach target area

Repeat for the next nostril