

North West Coast Strategic Clinical Networks

Clinical Practice Summary

For Palliative Care Symptoms

North West Coast Strategic Clinical Network Cheshire & Merseyside Audit and Clinical Guidelines Group June 2017



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The editors cannot be held responsible for any liability incurred as a consequence of the use or application of any contents of this book. Recommendations contained in this book cannot be appropriate for every situation and so professionals using this book should make their own decisions regarding safe and appropriate patient care.

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The guidelines on which these Clinical Practice Summaries are based are continually reviewed. You are advised to check the website below for latest versions.

Full Versions of the Guidelines can be found at

http://www.nwcscnsenate.nhs.uk/strategic-clinical-network/our-networks/palliative-and-end-life-care/audit-group/ clinical_standards_and_guidelines/

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Introduction and Aide Memoire

These clinical practice summaries are based on the <u>Merseyside and Cheshire Palliative Care Network Audit</u> <u>Group Guidelines</u>. They support decision-making in symptom management and care co-ordination for people with palliative care needs. If there is any doubt regarding clinical decisions for individuals, help should be sought from local Palliative Care services. Details regarding local services can be found at the end of these guidelines.

Ambitions for Palliative and End of Life Care - supporting people in the last weeks of life

All approaches regarding palliative and end of life care should reflect <u>Ambitions for Palliative and End of Life</u> <u>Care</u>, A national framework for local action 2015-2020 and the 6 key principles

Each person is seen as an individual and
Receives fair access to care
We maximise comfort & wellbeing
Care is coordinated
All staff are prepared to care
Each community is prepared to help

Ensure that you have considered the following in communication with the person and those important to them:

- Preferences and possibilities that could constitute an Advance Care Plan
- Sensitive communication about care in the last days of life and decisions about Do Not Attempt Cardiopulmonary Resuscitation (**DNACPR**) Orders
- Ensure that if there is an ICD (Implantable Cardioverter Defibrillator) in place, it has been deactivated.
- Ensure that all relevant Out of Hours services are made aware of any critical documentation e.g. using special note **notification** and in hospital settings that clear **treatment escalation plans** are made
- Anticipatory prescribing to relieve common symptoms in the last weeks of life should be considered in a timely manner and individualised to avoid delay in managing distressing symptoms <u>Care of dying adults in</u> <u>the last days of life, NICE guideline NG31</u>

One Chance to Get it Right - Care in the last few days and hours of life

- **Recognise** deterioration and **consider if this is potentially reversible** e.g. infection or if the person is likely to die from irreversible causes. Potentially reversible causes should be treated provided that this is in accordance with the person's wishes or in their best interests
- If the person is likely to die from irreversible causes in the next hours or few days **communicate** this clearly and sensitively
- **Involve** the dying person and those important to them in day-to-day decisions about personal care and clinical treatments
- Avoid undertaking **investigations** that are unlikely to affect care in the last few days of life unless there is a clinical need to do so (NG31) e.g. curtailing renal monitoring in advanced heart failure
- Construct **an individual plan of care**, which includes food and drink, symptom control and psychological, social and spiritual support
- Hydration is not covered in these guidelines but guidance can be found in <u>Care of dying adults in the last</u> <u>days of life, NICE guideline NG31</u>
- **Deliver** this plan of care sensitively and **review** frequently especially if symptoms are not controlled, there is concern from family members or the person shows sign of improvement

QUICK GUIDE	BOWELOBSTRUCTION	
Reference	Merseyside and Cheshire Palliative Care Network Audit Group Guidelines on Nausea and Vomiting and Medical Management of Malignant Bowel Obstruction	

Assessment/Description

Malignant bowel obstruction is a recognised complication of advanced pelvic or abdominal malignancy. Common symptoms associated with malignant bowel obstruction include abdominal pain, abdominal colic, nausea and vomiting. The evidence base for management of malignant bowel obstruction is weak and this chapter summarises the best available evidence.

An individualised approach to management is recommended for each patient and specialist palliative care advice should be sought.

- The diagnosis is made clinically through history and examination
- This may be confirmed with imaging (abdominal X-ray or CT scan) depending on individual circumstance and preferences

Medications for Symptom Control in Malignant Bowel Obstruction **Dose adjustments may need to be made depending on renal and hepatic function**

Indication(s)	Drug name	Dose (over 24 hours via CSCI unless other- wise stated)	Notes
Relief of con- stant pain	Opioid via CSCI/24 hours or transdermal Fentanyl patch	Dependent on previous dose	Absorption of oral formulation via gut may have been impaired when converting from oral to CSCI. Consider adjusting the dose accordingly
Relief of colic	Hyoscine butylbromide	60mg - 240mg	Do not combine with cyclizine in CSCI as can cause crystallisation
	Glycopyrronium	600micrograms - 2.4mg	Does not crystallise
Reduce volume of gas- trointestinal secretions	Octreotide	300micrograms - 600micrograms	Should be considered first line. (If acutely unavailable, use Hyoscine Butylbromide but do not combine with cyclizine in CSCI as can cause crystallisation)
	Hyoscine butylbromide	60mg - 240mg	Do not combine with cyclizine in CSCI as can cause crystallisation
	Ranitidine	100mg - 200mg	Does not crystallise
	Glycopyrronium	600micrograms - 2.4mg	Does not crystallise
Reduce tumour oedema. Reduce nausea and vomiting	Dexamethasone	8mg subcutaneously od or 4mg subcutaneously bd	Given as a single dose or divided into 2 doses (10am and 2pm or before 12 noon if single dose). Late administration may cause insomnia /agitation
Reduce nausea and vomiting	Cyclizine	150mg	Do not combine with Hyoscine butylbromide in CSCI as can cause crystallisation
	Haloperidol	1.5mg - 5mg	
	Levomepromazine	6.25mg - 25mg	
	Metoclopramide	30mg - 90mg	Contraindicated in complete bowel obstruction. Dose may be increased to 120mg/24 hours. Monitor for increased abdominal colic
	Ondansetron	8mg - 32mg	seek local specialist palliative care advice if over 16mg

IMPORTANT CONSIDERATIONS:

Symptom Control

Pain:

- Opioid analgesia should be titrated to control continuous abdominal pain.
- Colic should be managed with the reduction in dose or discontinuation of prokinetic drugs followed by the commencement of anti-spasmodic medications.

Reduction of secretions:

- Patients experiencing large volume vomiting should be prescribed antisecretory medication.
- Octreotide is the recommended first line anti-secretory medication.

Reduction of nausea and vomiting:

- Anti-emetics should be administered via the subcutaneous route.
- Prokinetics are not advised if the diagnosis of complete vs partial bowel obstruction is uncertain.

Corticosteroids:

 A five day trial of dexamethasone 4mg subcutaneously twice daily morning and lunch should be considered in all patients.

Laxatives:

• The use of stimulant laxatives should be avoided. The use of stool softeners may be appropriate.

Interventions

Medication Delivery:

 Medication should be delivered via the subcutaneous route due to potential problems with absorption.

Nasogastric Tubes:

 A wide bore nasogastric tube should be considered for patients with upper gastrointestinal obstruction or large volume vomiting.

Venting Gastrostomies:

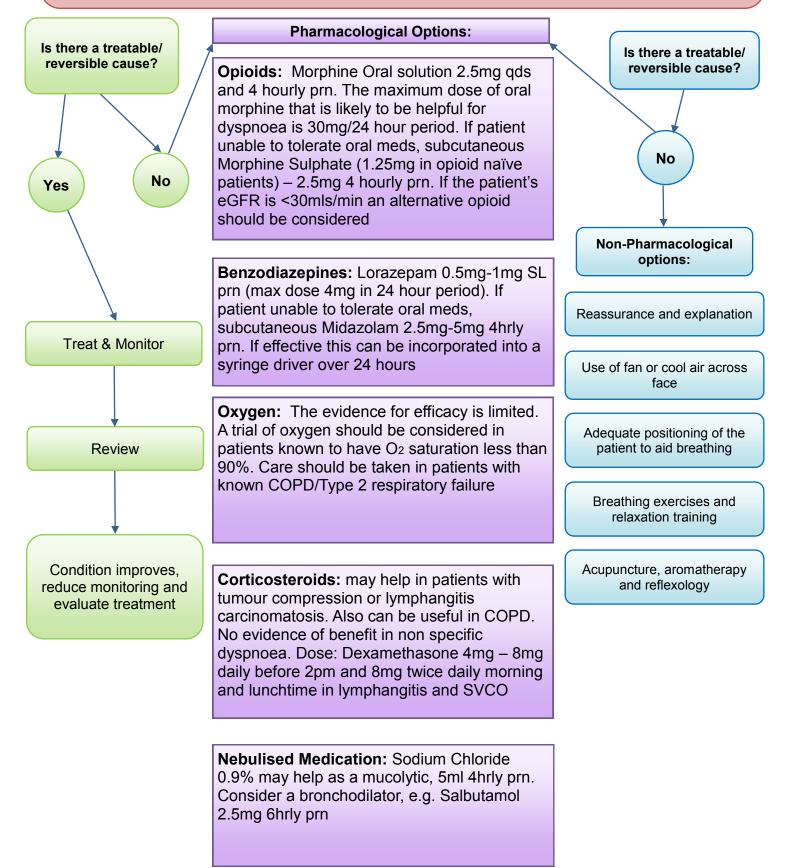
- Venting gastrostomies or jejunostomies should be considered for patients with malignant bowel obstruction who have a prognosis of greater than 2 weeks.
- Venting gastronomies have been shown to be cost effective with low morbidity and mortality.

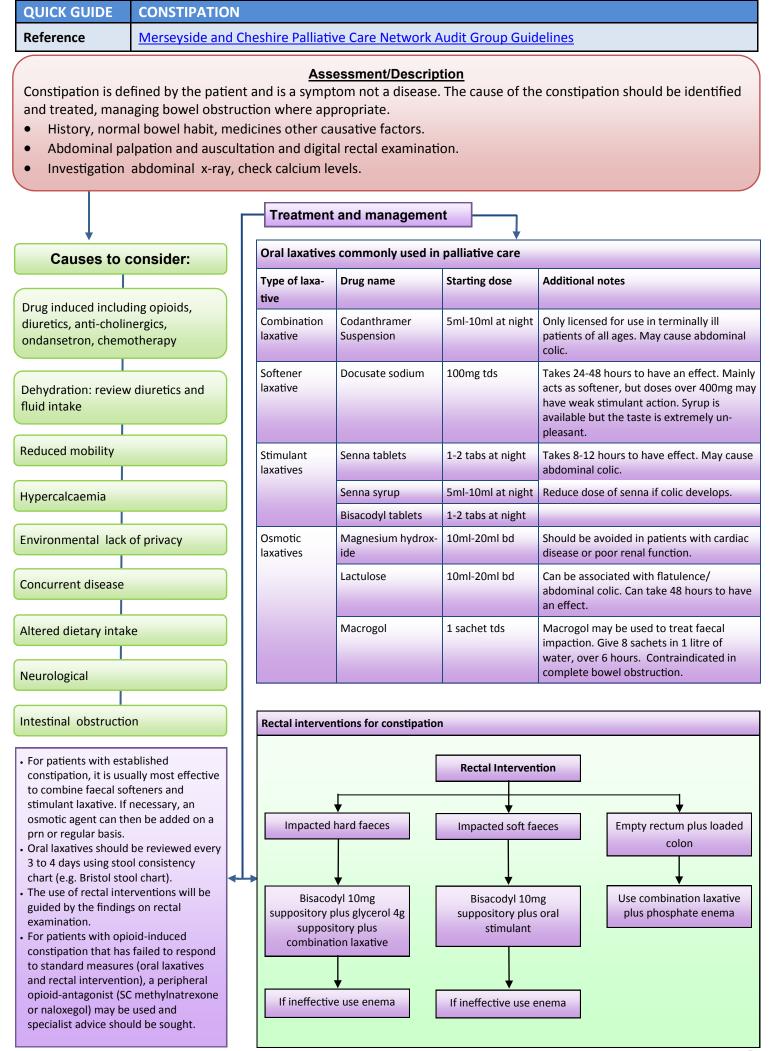
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QUICK GUIDE	BREATHLESSNESS
Reference	Merseyside and Cheshire Palliative Care Network Audit Group Guidelines on Breathlessness

Assessment/Description

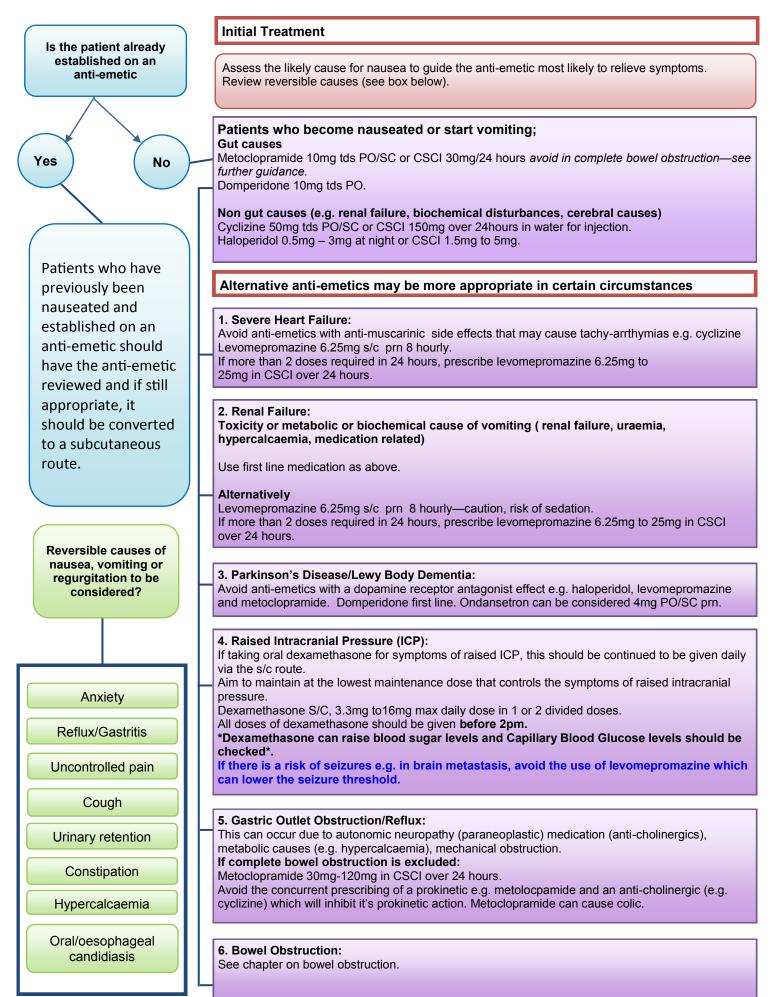
Causes of breathlessness can be multi-factorial: physical, psychological, social and spiritual factors can all contribute to a person feeling breathless. Assessment is vital, particularly in a new presentation. Undertake a history and clinical examination, including oxygen saturations. Investigations such as chest x-ray may be necessary and management will depend on clinical diagnosis. Treat what may be caused by an acute event and reversed, e.g. infection, anaemia, pulmonary oedema etc.

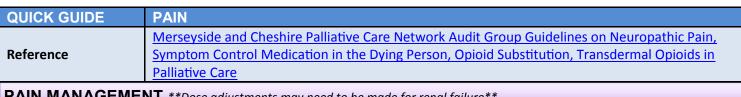


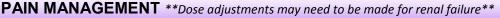


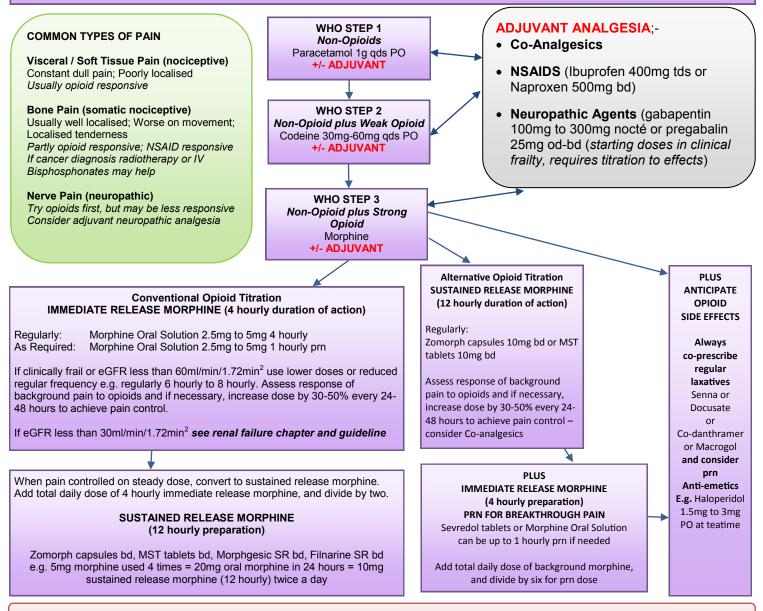
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QUICK GUIDE	NAUSEA & VOMITING
Reference	Merseyside and Cheshire Palliative Care Network Audit Group Guidelines on Nausea and Vomiting







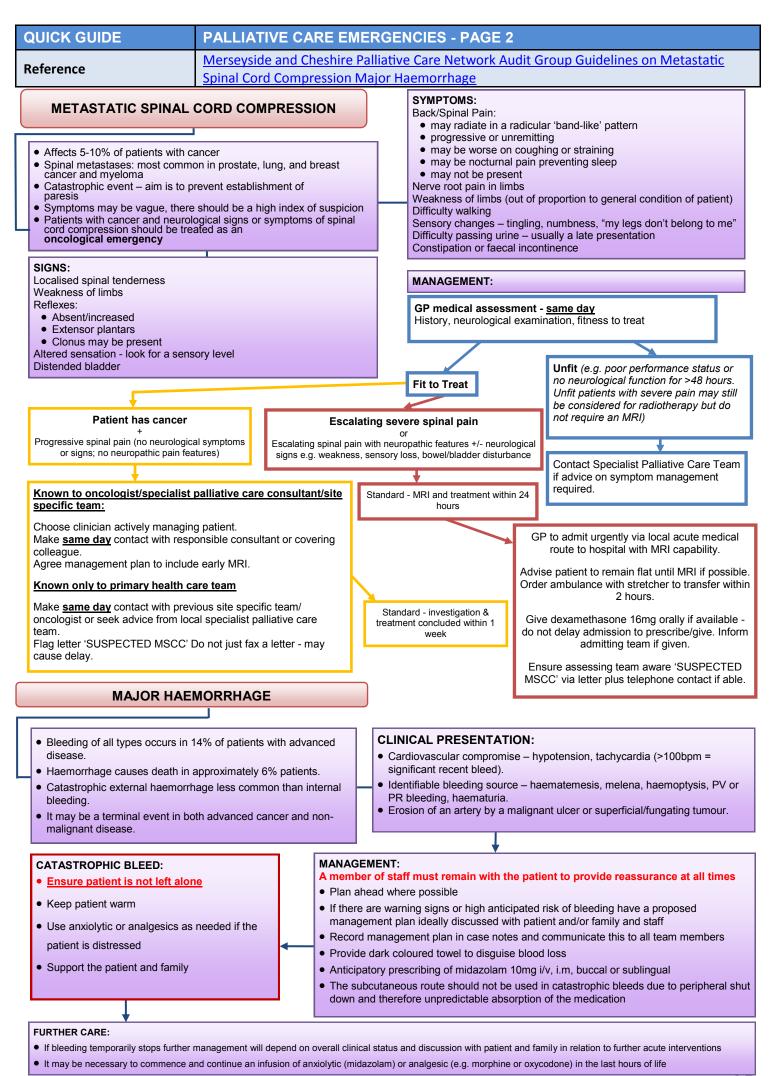


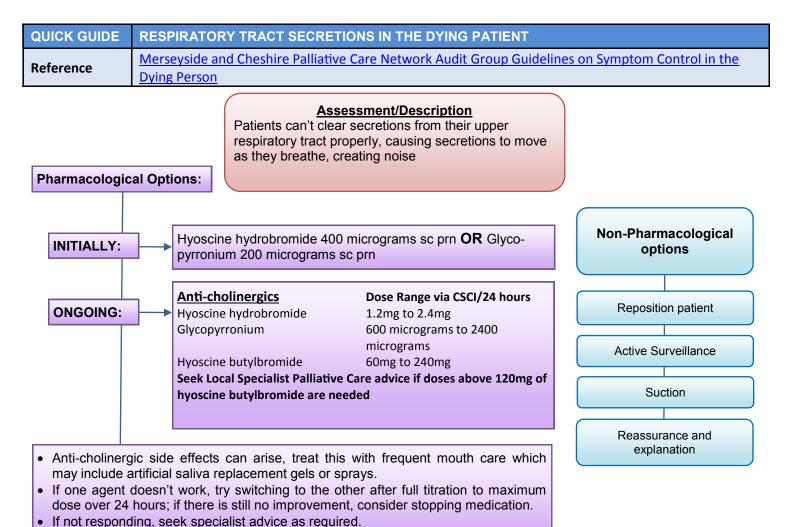
Pain can be improved for patients. If not improving, seek local specialist advice

USE OF TRANSDERMAL OPIOID PATCHES

Only consider if:	COMMENCING PATCHES	Guidance in the Last Days of Life
 Pain is stable, and NOT rapidly changing 	 Titrate with 4 hourly immediate release oral morphine, until pain is controlled 	
 Oral route not appropriate or poorly absorbed in the long term (for short term management consider a 	 Remember a fentanyl 25mcg/hour patch is equivalent to a 60mg-90mg total daily dose of oral morphine 	When a patient is dying, <u>LEAVE PATCH</u> <u>IN SITU</u> , and change as before. Use subcutaneous opioids prn for
continuous subcutaneous infusion [CSCI])	 Stick patch to hairless skin; clip (not shave) hair 	breakthrough pain; if prn needed regularly, start CSCI in addition to patch
 Unacceptable side effects from other opioids despite opioid rotation, e.g. 	 Initial analgesic effect will take at least 12-24 hours, and a steady state may not be achieved for 72 hours 	Ensure prn dose adequate for both patch & CSCI
unmanageable constipation with opioids despite optimisation of laxatives	 Ensure immediate release oral morphine (or alternative) is available for breakthrough pain 	Seek Specialist Palliative Care advice for support if need advice
• Renal impairment (seek specialist palliative care advice in	 Change patch every 72 hours; use a new area of skin 	
renal failure)	• A 12-24 hour depot of drug remains when patch removed; fold in on themselves and discard safely	
New prescriptions of fentanyl patches are not recommended out-of-hours, unless on specialist advice	• Opioid withdrawal may occur when switching from morphine to fentanyl; manage with prn morphine	

	SEIZURES	HYPERCALCAEMIA
	GLIZOREG	
 available If seizure doe Intrana 5mg to Diazeg Lorazeg 	-	 Hypercalcaemia is common in cancer of breast, myelom lung, head and neck, kidney, thyroid and cervix. Primary hyperparathyroidism should be considered as a possible cause (6% of cancer patients). Presentation: Symptoms of hypercalcaemia include: fatigue, weakness, constipation, nausea, vomiting, polyuria, polydipsia, cardiac arrhythmias, delirium, drowsiness and coma.
 15 minutes, if a Repeat dose Decide if transmanagement current care For acute material established, cardiorespiration intravenous a stablished. If patient to stablished construction of midazolant 	CONTINUE despite above measures after t home/nursing home; of the medicine used after 5 minutes. hsfer to hospital for emergency t is needed or if care will continue in the setting. anagement— A secure airway should be oxygen should be administered, atory function should be assessed and access should be stay at home or hospice and two doses sider a continuous subcutaneous infusion n 30mg over 24 hours.	 ASSESSMENT: Clinical assessment of the patient is crucial in determini whether treatment of hypercalcaemia is appropriate. Generally a decision to treat should be motivated by the patient's symptomatology rather than absolute calcium level. The most important goal of treatment is improve clinical symptoms. Onset of symptoms raising clinical suspicion should be investigated. Bloods should be checked for urea and electrolytes (U&Es), estimated glomerular filtration rate (eGFR), liver function tests (LFT's) and calcium. Corrected serum calcium >2.7mmol/L (some variation between laboratories). TREATMENT: The patient should be rehydrated with 1-3 litres of parenter sodium chloride 0.9% before the administration of bisphosphonates. The volume and rate of fluid replacement should be adjusted in each patient accordin to their age, the severity of hypercalcaemia, the degree of dehydration and the ability of the cardiovascular system to tolerate rehydration. The treatment of choice is intravenous bisphosphonate—pamidronate, zoledronic acid or ibandronate depending on local formulary choices. Corrected calcium levels should be rechecked at 5-7 days after the bisphosphonate infusion. Checking calcium leve prior to this is not appropriate, as the bisphosphonate will not have achieved its maximal effect.
tumour or n venous dra • Commones lymphoma.	on /invasion or thrombosis of SVCO due to odal mass within mediastinum, preventing inage from head, arms and upper trunk. It causes (95%) – lung cancer, non-Hodgkin set over weeks or months, but occasionally dly.	SYMPTOMS/SIGNS: • Swelling of face, neck, arms • Headache • Dizziness/ Visual disturbance • CNS depression • Fits • Dyspnoea • Dilated veins – neck, trunk, arms • Hoarse voice • Stridor • Cyanosis





QUICK GUIDE	AGITATION IN THE DYING PATIENT		
Reference	Merseyside and Cheshire Palliative Care Network Audit Group Guidelines on Symptom Control in the Dying Person		
Pharmacologic	al Options:	<u>Assessment/Description</u> Look for any reversible cause of agitation, and if identified, appropriate management towards it. Consider possible physical, psychological and spiritual factors as well as environmental factors such as lighting and noise.	
INITIALLY:		Midazolam 2.5mg - 5mg sc up to 2-4 hourly prn. If eGFR < 30 give a reduced dose of midazolam e.g. 1 mg to 2.5 mg sc prn	
DELIRIOUS] −−−→	Consider haloperidol 500 micrograms sc 2 hourly prn (monitor for extrapyramidal side effects)	
ONGOING:]	AgitationDose Range via CSCI/24 hoursHaloperidol for agitation2.5mg to 8mgMidazolam for agitation10mg to 30mgSeek Local Specialist Palliative Care advice if doses above 30mg of midazolam areneededLevomepromazine12.5mg to 200mgSeek Local Specialist Palliative Care advice if doses above 25mg of levomepromazineare needed	

QUICK GUIDE	CONTINUOUS SUBCUTANEOUS INFU	SION USING SYRINGE DRIVERS	
	Merseyside and Cheshire Palliative Ca	are Network Audit Group Guidelines on Agitation, Anti-	
Reference			
Opioid Substitution, Syringe Drivers			
classed as high risk d			
1. Patient is unable	to take oral medication		
	a and vomiting		
	Ilty in swallowing inal obstruction		
2. Malabsorption			
3. Most effective me	edicine can only be used via CSCI		
	COMMON MEDIC	INES USED VIA CSCI	
Anti-cholinergics	Dose Range via CSCI/24 hours	Anti-emetics (See Nausea and Vomiting Chapter for further guidance	
Hyoscine hydrobrom		Dose Range via CSCI/24 hour	
Glycopyrronium	600 micrograms to 2400 micrograms	Cyclizine150mgHaloperidol for nausea2.5mg to 5mg	
lyoscine butylbromi	-	Ondansetron 8mg to 32mg	
	Palliative Care advice if doses above 120mg	Seek Local Specialist Palliative Care advice if doses above 16mg	
of hyoscine butylbro	mide are needed	of ondansetron are being considered	
		Metoclopramide 30mg to 120mg Seek Local Specialist Palliative Care advice if doses above 60mg	
Agitation	Dose Range via CSCI/24 hours	of metoclopramide are needed	
Haloperidol for agitat		Levomepromazine for nausea 6.25mg to 25mg	
Vidazolam for agitat	ion 10mg to 30mg Palliative Care advice if doses above 30mg	Strong Opioids Dose Range via CSCI/24hrs	
of midazolam are ne	-	Morphine Sulphate	
evomepromazine	12.5mg to 200mg	Diamorphine Doses for all opioids should be	
	Palliative Care advice if doses above 25mg	Oxycodone calculated based on existing opion Alfontanil use. If no previous opioid use, see	
of levomepromazine	are needed	Alfentanil local specialist advice.	
-	gs should be diluted with 0.9% saline or Water always be diluted in water for injection.	for Injection. Cyclizine or diamorphine (doses above 40mg/ml)	
<u> Oral Morphine to</u>	Subcutaneous Morphine Conversion	Syringe driver site selection	
Calculate the	e total daily dose of morphine in a 24 hour	period	
e.g. 90mgs N	1ST bd = 180mgs		
•	dose of morphine by 2 to give the 24 hour		
of morphine	to be infused e.g.	aspect of Anterior chest wall	
<u>180mgs</u> = 90 2	mgs morphine over 24 hours	arms	
 Breakthroug 	h dose 1/6 of total daily dose of morphine	Anterior	
<u>90mgs</u> = 15 6	mgs morphine	Anterior aspect of thighs	
Seek local	Specialist Palliative Care advice f	for	

Reference		RENAL FAILURE - PAGE 1 Merseyside and Cheshire Palliative Care Network Audit Group Guidelines on Prescribing in Renal Failure	
1.	must be presc	d be avoided if possible, unless a patient is already on dialysis and anuric. If an NSAID ribed, the lowest effective dose should be used and the renal function should be re-checked s of starting the drug.	
2.	If the eGFR is due to drug an	below 30mls/min (CKD 4/5) there is an increased risk of toxic side effects with all opioids d metabolite accumulation. Opioids should therefore be used with caution and should be a regular basis. Signs of opioid toxicity may include hallucinations, myoclonus, drowsiness	
3.	When prescribing oral (strong) opioids, the immediate release forms are preferred. Long acting opioid preparations should be avoided (e.g. MST/MXL) as the metabolites accumulate in renal failure.		
4.	Parenteral Alfentanil or fentanyl are pharmacokinetically the safest analgesics to use in renal failure as the metabolites are non-toxic. The limitations are that they have a very short half life.		
5.	If a patient requires more than 3 stat subcutaneous doses of a strong opioid, consider starting a continuous subcutaneous infusion of alfentanil.		
6.		t is established on a regular stable dose of strong opioid, conversion to transdermal be better tolerated.	

DRUG	ESRD <15ml/min	Comments		
Paracetamol	Recommended	Max 3g/24 hrs if GFR <10		
Codeine/ Dihydrocodeine	Not recommended			
Tramadol	Use with caution	50mg bd maximum dose		
Morphine	Not recommended	If used, start 2.5mg PO 4-12 hrly (i.e increase time between doses)		
Diamorphine	Not recommended	If used, start 2.5mg sc 4-12 hrly (i.e increase time between doses)		
Buprenorphine	Limited evidence	Use with caution		
Fentanyl	Recommended	Consider reduce starting dose by 25-50%, start prn 25mcg sc 4 hourly		
Alfentanil	Recommended (not prn)	CSCI only. Alfentanil 1mg = Oral morphine 30mg		
Oxycodone	Limited evidence	Use with caution, start 1mg to 2.5mg PO 4-12 hrly		

Seek Specialist Advice for People Managed with Haemodialysis or Peritoneal Dialysis

ADJUVANTS						
GABAPENTIN		PREGABALIN				
eGFR (ml/min)	TOTAL DAILY DOSE (mg/day)	eGFR (ml/min)	TOTAL DAILY DOSE (mg/day)			
≥80	900 - 3600	· · ·				
50-79	600 - 1800	≥60	150 - 600 (bd/tds)			
30-49	300 - 900	≥30 - <60	75 - 300 (bd/tds)			
15-29	150 - 600	≥15 - <30	25 - 150 (bd/od)			
<15	150 - 300	<15	25 - 75 (od)			

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QUICK GUIDE	RENAL FAILURE - PAGE 2
Reference	Merseyside and Cheshire Palliative Care Network Audit Group Guidelines on Prescribing in Renal Failure

ANTI-DEPRESSANTS

Prevalence of depression high in those with CKD 5 (14-30%)

Unclear whether anti-depressants are effective in CKD 3-5 - limited evidence, there is some evidence from small trials showing SSRI's safe in advanced CKD/ESRF

Drug pharmacokinetics of anti-depressants are altered in renal impairment

- Fluoxetine and Citalopram need no dose adjustment
- Mirtazapine start at 15mg, increase carefully

ANTI-EMETICS, SEDATIVES AND ANTI-SECRETORY

ANTI-EMETICS:

• Haloperidol is the drug of choice for nausea in patients with renal failure, but if eGFR is less than 10ml/

min the dose should be reduced (250 micrograms to 500 micrograms PO or SC).

- Levomepromazine is a useful alternative anti-emetic.
- Cyclizine should be avoided due to the risk of hypotension / tachyarrythmias.
- Metoclopramide should be avoided due to the increased risk of extrapyramidal reactions.

SEDATIVES:

- Midazolam metabolites accumulate in renal failure. Patients may be more sensitive to the effects of midazolam. The lowest effective dose should be used.
- Uraemia may cause or contribute to agitation in the dying phase.
- Consider the use of Haloperidol if the patient is suffering from delirium rather than agitation/anxiety.

ANTI-SECRETORY:

- Glycopyrronum is the drug of choice for managing secretions. It accumulates in renal failure and a **dose** reduction of 50% is recommended i.e 100 micrograms SC prn.
- Hyoscine hydrobromide has an increased risk of causing drowsiness and paradoxical agitation.

portant information for locality	
Local Chemists (Out of hours)	

Palliative Care Service

Other Services (Signpost)

