

NAUSEA & VOMITING (N&V)

Exclude obstruction & biochemical abnormalities

Oral antiemetics

- 1) Metoclopramide 10mg tds: Prokinetic
- 2) Haloperidol 1.5mg nocte: Opiate induced N&V
- 3) Cyclizine 25mg-50mg tds: ↑ ICP or obstruction
- 4) Levomepromazine 6.25-12.5mg nocte (¼-½ tablet) (Nozinan) 6mg tablets available for named patient only

- **Can use 2 and 3 together**
- **Not advisable to use** 1 & 2 or 1 & 3 together

Rectal antiemetics

Domperidone 30-60 mg tds / qds
Prochlorperazine (Stemetil) 25mg bd

Subcutaneous antiemetics

Use water for injection unless indicated

1. Metoclopramide **Stat dose** 10mg
SD dose 30mg-60mg/24hr
 2. Haloperidol **Stat dose** 500 microgram-1.5mg
SD dose 1.5mg-3mg/24hr
 3. Cyclizine **Stat dose** 25-50mg
SD dose 100mg-150mg/24hr
 4. **Levomepromazine** (Nozinan)
Stat dose 5mg-6.25mg **SD dose** 5mg-25mg/24hr
- **Broad spectrum antiemetic**
 - Is the new European name for Methotrimeprazine
 - If used alone dilute with 0.9% sodium chloride

Can use 2 & 3 together

Not advisable to use 1 & 2 or 1 & 3 together

AGITATION

Consider treatable causes:

Constipation, urinary retention, hypercalcaemia, infection

Diazepam (oral/sl) 2-5mg qds

Stesolid 5-10mg PR

Haloperidol **Stat dose** po or s/c 1.5-3mg nocte

SD dose s/c 3mg-10mg/24hr

TERMINAL RESTLESSNESS

1st line on *LCP is:

Midazolam **Stat dose** s/c 2mg-10mg

SD dose s/c 5mg-60mg /24hr

Alternatives

Levomepromazine **Stat dose** s/c 6.25mg-12.5mg stat

SD dose s/c 6.25mg-50mg/24hr

Phenobarbitone **Stat dose** s/c 50mg-100mg

SD dose s/c 100mg-300mg/24hr

ORAL THRUSH

Nystatin suspension 1ml qds

Fluconazole 150mg stat or 50mg od for 7-10 days

Miconazole gel

RESPIRATORY SECRETIONS (DEATH RATTLE)

First Line on *LCP is:

Hyoscine butylbromide (Buscopan)

Stat dose s/c 20mg **SD dose** s/c 40mg-60mg/24hr

Used in conscious patient as less sedating & causes less confusion than alternatives

Alternatives

Hyoscine hydrobromide

Stat dose s/c 400microgram

SD dose s/c 400mcg*-2,400mcg/24hr

Hyoscine patch 1.5mg/72hr

Glycopyrronium (Robinul): seek advice

Stat dose 200microgram s/c

SD dose s/c 400mcg*-2,400mcg/24hr

For further information or advice contact:

St Leonard's Hospice, York
Tel: (01904) 708553

Hospital Palliative Care Team, York
Tel: (01904) 725835

Community Macmillan Nurses, Selby and York PCT
Tel: (01904) 724476

Medicines Information, York Hospital Pharmacy
Tel: (01904) 725960

***LCP is Liverpool Care Pathway for the dying patient**

***SD is syringe driver**

*** mcg should always be written in full micrograms**

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York Palliative Care Pharmacy Group &
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Palliative Care Formulary

INTRODUCTION

This formulary is a guide for prescribers in hospitals and Primary care across the locality. The acceptance and use of this formulary will enhance the quality and consistency of palliative care. Some drugs are unlicensed for route & indication but are nationally used in specialist palliative care units. Dose adjustments may be required in patients with renal impairment.

PAIN

Analgesia should be prescribed on a **REGULAR** basis.

NB: Laxatives (softener and stimulant) should be co-prescribed at step 2 & 3

Step 1 Paracetamol 1g qds +/-
Ibuprofen 400-600mg tds **or** Diclofenac 50mg tds

Step 2 Step 1 + weak opiate
Weak opiates
Dihydrocodeine 30-60mg qds **or**
Codeine 30mg-60mg qds
Combination preparations are prescribed
Cocodamol 8/500 or 30/500 (up to 2 qds)

If intolerant of codeine consider buprenorphine patch (Butrans) or tramadol

Step 3 **Replace Step 2 opiate** with 4hrly immediate release morphine (e.g. Oramorph) + equivalent rescue dose. Titrate according to response

Then/Or

Convert to 12 hourly sustained release morphine

Conversion

Oral Codeine/ dihydrocodeine to oral morphine **divide by 10**

Morphine formulations

Zomorph SR (Formulary choice)

10mg, 30mg, 60mg, 100mg, 200mg (capsule contents can be sprinkled on food)

MST Continus tablets 5mg, 10mg, 15mg, 30mg, 60mg, 100mg, 200mg

MST Continus sachet 20mg, 30mg, 60mg, 100mg, 200mg

Oramorph liquid (immediate release morphine)

10mg/5ml, 100mg/5ml

For rescue or breakthrough pain

Prescribe immediate release Morphine equivalent to **1/6 of total daily dose (TDD)** of slow release Morphine.

Morphine Intolerance (including renal patients)

Some patients will get significant side effects with morphine. Consider opiate dose reduction, if appropriate. Patients may benefit from switching to Fentanyl or Oxycodone. Remember some pains are not opiate responsive. **Consult the Specialist Palliative Care Team for further advice**

Transdermal Fentanyl

Fentanyl TTS each patch usually lasts 72 hrs

(In some pts the patch may need changing every 48hrs)

Patch strength 12 mcg/hr, 25mcg/hr, 50mcg/hr, 75mcg/hr, 100mcg/hr

Note

- Slow onset of action
- Cover with Morphine for first 12 hrs
- Residual effect up to 24hrs as sub-dermal reservoir

Approximate conversion Divide total daily dose (TDD) of oral Morphine in mg by 3 for equivalent patch strength in mcg/hr.

For breakthrough pain use immediate release morphine but if morphine intolerant use OxyNorm (capsule or liquid) or Alfentanil spray

Oxycodone

Prescribed as 12 hourly sustained release tablet with immediate release capsule or liquid breakthrough medication which may be taken up to every 4 hrs as needed

OxyContin S/R tabs 5mg, 10mg, 20mg, 40mg, and 80mg

OxyNorm I/R capsules 5mg, 10mg, 20mg

OxyNorm I/R liquid 5mg/5ml, 10mg/ml

Conversion Oral Morphine to oral Oxycodone **divide by 2**

Subcutaneous opiates

(Remember to prescribe breakthrough doses 1/6 of total daily dose (TDD) when prescribing a syringe driver)

Diamorphine is the usual choice but as it is in short supply, Morphine is used first line on the *LCP in hospital

Morphine inj 10mg/ml, 30mg/ml

Conversion Oral Morphine to s/c Morphine **divide by 2**

Diamorphine inj 5mg, 10mg, 30mg, 100mg, 500mg

Conversion Oral Morphine to s/c Diamorphine **divide by 3**

Oxycodone (oxynorm) inj 10mg/ml, 20mg/2ml

Conversion Oral Oxycodone to s/c Oxycodone **divide by 2**

Alfentanil inj 500 micrograms/ml (2ml, 10ml)

(Used in renal impairment if GFR<30ml/min)

ADJUVANT ANALGESICS

BONE PAIN

Ibuprofen 400-600mg tds (liquid available)

Diclofenac 50mg tds (soluble tabs & suppositories)

Gastroprotection for NSAIDs

Lansoprazole 15mg-30mg od

Consider in high risk patients

I.e. elderly, previous peptic ulcer or GI bleed, concomitant steroids, cardiovascular disease

NEUROPATHIC PAIN:

Tricyclic antidepressants

Amitriptyline 10-100mg nocte

(Others antidepressants may have analgesic properties)

Anticonvulsants

Gabapentin 100mg nocte titrating by 100mg initially

Maxm dose 600mg tds

Reduce dose in patients with renal impairment

(Pregabalin, Clonazepam, Carbamazepine may be used)

Steroids: Dexamethasone 4-8mg daily

COLIC

Hyoscine butylbromide (Buscopan)

Poorly absorbed orally

Stat dose 20mg prn 6hrly s/c

SD dose 40mg-120mg/24hrs s/c

Maxm SD dose 240mg s/c

(Stop stimulant laxative & prokinetic)

LIVER PAIN

Dexamethasone 8-12mg daily & titrate down

BOWEL OBSTRUCTION

Is it constipation?

Background pain Morphine/ Diamorphine

Antiemetics: Cyclizine or
Cyclizine+ Haloperidol or
Levomopromazine (Nozinan)

Colic: see Buscopan above

Antisecretory: Buscopan or Octreotide

(Octreotide reduces the volume of vomitus)

RAISED INTRACRANIAL PRESSURE (↑ ICP)

Dexamethasone 16mg daily & titrate doses down as recommended by oncologists/ Doctors

(Do not give steroids after 6pm as insomnia may be a problem). Monitor for glycosuria.

CONSTIPATION

Try to anticipate constipation and treat the cause

- A **softener & stimulant** is usually required in patients taking opiates. **Avoid bulking agents**
- Full rectum—stimulant if soft faeces/softener if hard
- Do not use stimulant if obstruction present

Softener

Docusate 100-200mg bd/tds

Osmotic

Movicol sachets 1 to 2 sachet od/ bd (up to 8/day)
Lactulose 15ml bd may cause bloating.
(Delayed effect - use regularly)

Stimulants

Senna 2-4 nocte
Bisacodyl 5mg-20mg nocte (10mg PR)

Combined

Co-danthramer strong caps/liquid
Co-danthrusate capsules

Impaction

- Rectal examination & Abdominal X-ray to **exclude constipation & overflow or obstruction**
- Oral route alone is usually ineffective

Resistant

Consider Citramag

Suppositories

Bisacodyl 10-20mg (**stimulant**) or
Glycerin 1-2 (**mainly softener**)

Enemas

Citrate micro enema 1-3 **or**
Phosphate 1 mane

If above ineffective

Warm arachis oil (if no nut allergy) administered over night as a retention enema (**softener**) which may need to be followed by phosphate enema (**stimulant**)

DYSPNOEA (BREATHLESSNESS)

Exclude reversible causes and remember the importance of explanation and reassurance.

Oral Morphine 2mg-10mg 4 hrly or when needed,
Or titrated according to response.

Diazepam 2mg-5mg po bd / tds

Lorazepam 500microgram sublingual tds

Midazolam **Stat dose** s/c 2mg

SD dose s/c 5-10mg/24hr.