

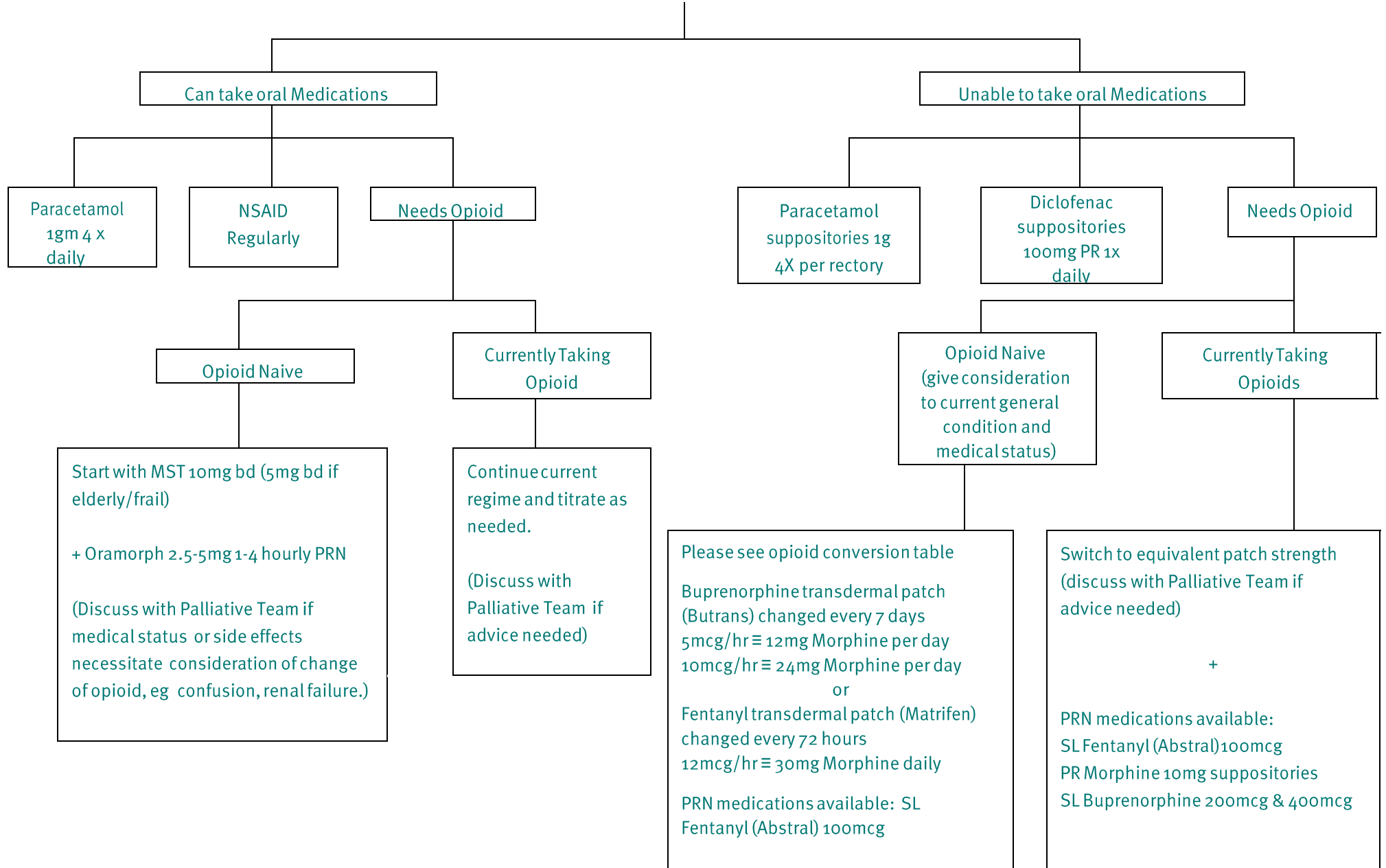
FORMULARY – JIC injectable medicines reduced if administration of injectable medication in the community setting significantly reduced. Find here a list of medications that may be administered via non-injectable routes.

LIST OF NON-PARENTAL DRUGS FOR END OF LIFE CARE PANDEMIC
CORONAVIRUS PROTOCOL

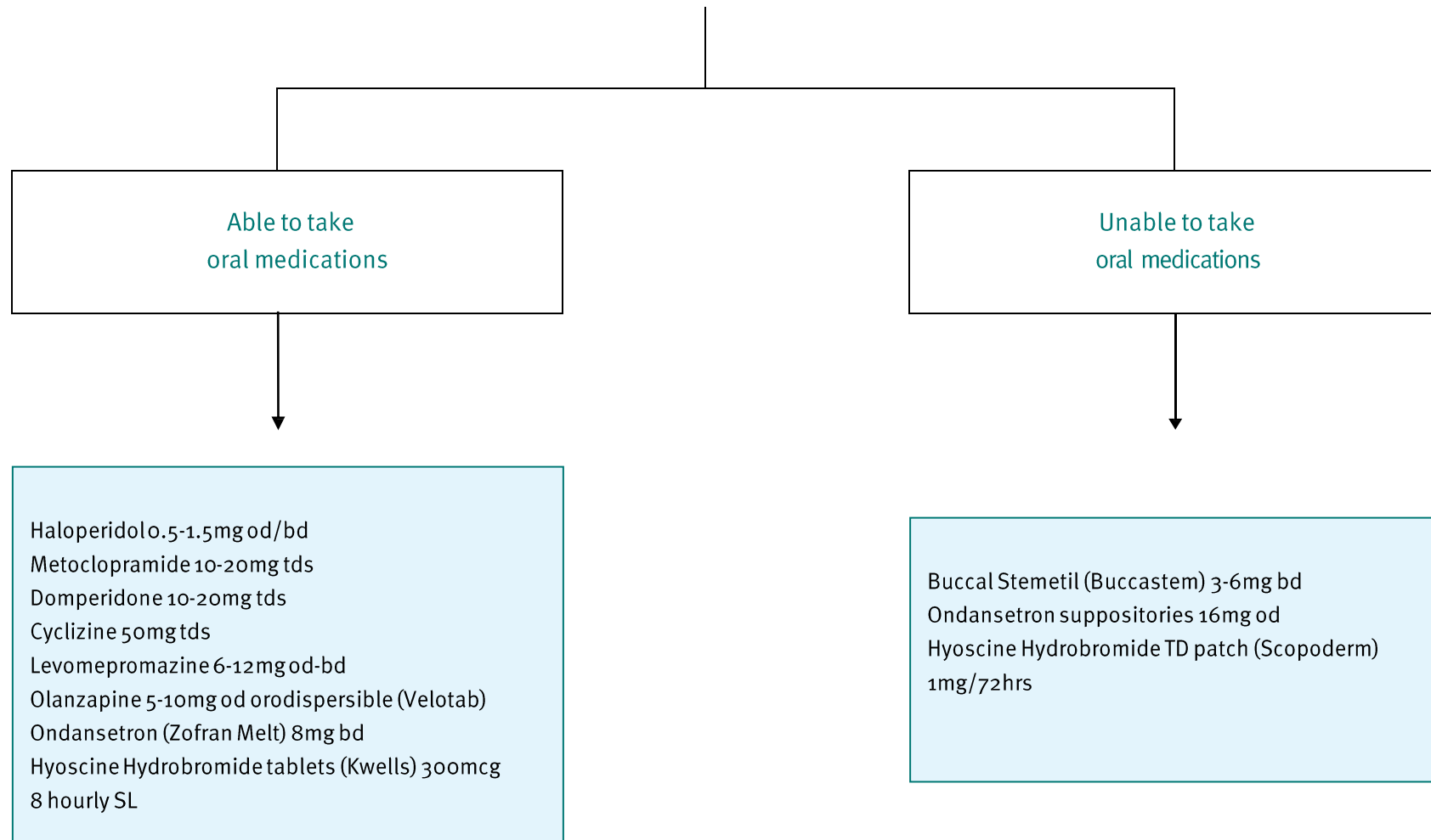
ANALGESICS	
If able to take oral medications	Oral Morphine IR Morphine Sulphate MR
If unable to take oral medications	Morphine suppositories (10mg) Paracetamol suppositories (500mg) Diclofenac suppositories (12.5mg - 100mg) Buprenorphine transdermal patch Fentanyl transdermal patch Sublingual Fentanyl tablets (Abstral)
ANTIPYRETICS	
If able to take oral medications	Paracetamol Ibuprofen
If unable to take oral medications	Paracetamol suppositories (500mg) Diclofenac suppositories (12.5mg - 100mg)
ANXIOLYTICS	
If able to take oral medications	Oral diazepam
If unable to take oral medications	Sublingual lorazepam (specify Genus brand) Rectal diazepam Buccal midazolam * Clonazepam SC once daily

<p>SECRETIONS</p> <p>Able to take oral medications Unable</p> <p>to take oral medications</p>	<p>Amitriptyline Glycopyrronium (oral solution/suspension)</p> <p>Hyoscine transdermal patch (Scopoderm) 1mg/72 hours Hyoscine hydrobromide tablets (Kwells) 300mcg SL 8-hrly Atropine 1% ophthalmic solution 1-4 drops SL 4-hrly</p>
<p>ANTIEMETICS</p> <p>Able to take oral medications</p>	<p>Metoclopramide Domperidone Cyclizine Haloperidol Levomepromazine (6-12mg od – bd) Ondansetron (8mg bd) Olanzapine (5mg and 10mg orodispersible) Hyoscine hydrobromide tablets (Kwells) 300mcg SL 8-hrly</p>
<p>Unable to take oral medications</p>	<p>Buccal Prochlorperazine (Buccastem) (3mg) Ondansetron suppositories (16mg od) Hyoscine hydrobromide TD patch (Scopoderm) 1mg/72hrs Levomepromazine SC once daily</p>

PAIN



ANTIEMETICS



* SC Levomepromazine 6.25-12.5mg can be given once daily

ANTIPYRETICS
(Reducing
Temperature)

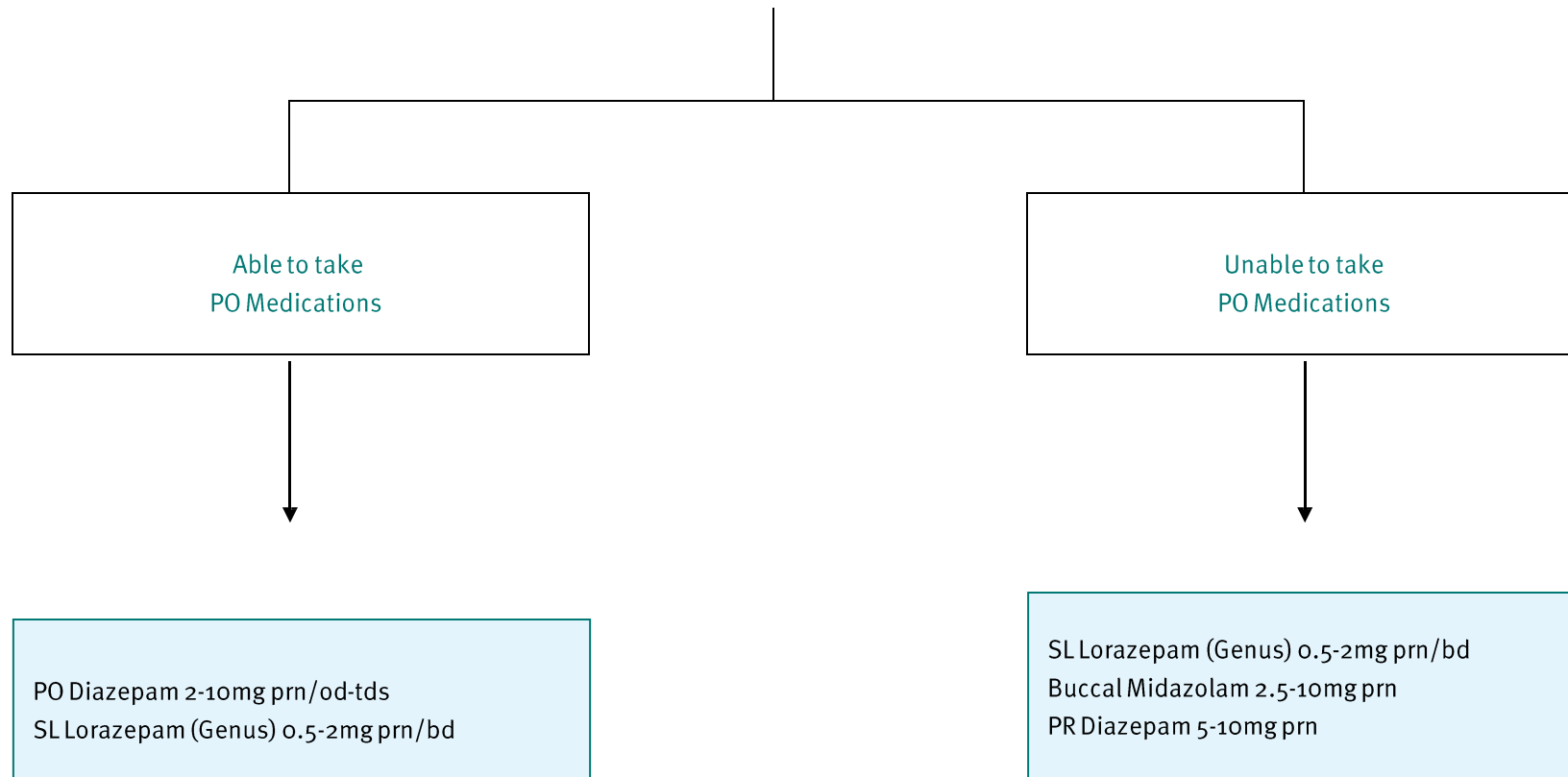
If able to take
oral
Medications

If unable to take
oral
Medications

Paracetamol 1g qds
Ibuprofen 200-600mg tds

Paracetamol suppositories 1g qds PR
Diclofenac suppositories 100mg od PR

ANXIOLYTICS
(Drugs to
Reduce Anxiety)



* SC Clonazepam 0.5–1mg can be given once daily

BREATHLESSNESS



For patients with distressing breathlessness use a combination
of regular opioid plus an anxiolytic

Oxygen if appropriate

REDUCING SECRETIONS



1ST Line: HYOSCINE PATCH (SCOPODERM) 1MG/72 HRS

If unable to tolerate Hyoscine Patch

Able to take oral
medications

Amitriptyline 10-25mg at night
Glycopyrronium (oral solution/suspension)

Unable to take oral
medications

Hyoscine hydrobromide tablets (Kwells)
300mcg 8-hourly SL

Atropine 1% ophthalmic solution
2-4 drops SL 4-hourly

PRESCRIBING IN PALLIATIVE CARE: A GUIDE TO EQUIVALENT DOSES FOR OPIOID DRUGS

This is to be used as **a guide** rather than a set of definitive equivalences. It is crucial to appreciate that conversion ratios are never more than an approximate guide (comprehensive data are lacking, inter-individual variation). The advice is always to calculate doses using morphine as standard and to adjust them to suit the patient and the situation. Some of these doses have by necessity been rounded up or down to fit in with the preparations available, including adjustment of doses for liquid and injectable medications in order to optimise ability to dispense accurately.

PLEASE SEEK SPECIALIST ADVICE IF YOU ARE UNCERTAIN ABOUT WHAT TO PRESCRIBE AND/OR PATIENT NEEDING ESCALATING OPIOID DOSES

Oral Morphine			Subcutaneous Morphine		Subcutaneous Diamorphine		Oral Oxycodone			Subcutaneous Oxycodone		Approximate TD Fentanyl patch micrograms/hr	Subcutaneous Alfentanil		Subcutaneous Fentanyl		
4 hr dose (mg)	12hr SR dose (mg)	24hr Total dose (mg)	4 hr dose (mg)	24 hr total dose (mg)	4 hr dose (mg)	24 hr total dose (mg)	4hr dose (mg)	12hr dose (mg)	24hr total dose (mg)	4 hr dose (mg)	24 hr total dose (mg)	Please see additional chart below for dose conversion ranges	4 hr dose (mg)	24hr total dose (mg)	4 hr dose (mcg)	24hr total dose (mcg)	
5	15	30	2.5	15	1	10	2.5	7.5	15	1	7.5		12mcg	0.1	1	25	200-250
10	30	60	5	30	2.5-5	20	5	15	30	2.5	15		25mcg	0.2	2	50	400-500
15	45	90	7.5	45	5	30	7.5	25	50	4	25		25-37mcg	0.5	3	100	600-750
20	60	120	10	60	7.5	40	10	30	60	5	30		37-50mcg	0.7	4	Syringe pump volume issues likely above 500mcg/24hours because fentanyl injection available as 50micrograms/ml	
30	90	180	15	90	10	60	15	45	90	7.5	45		50-75mcg	1	6		
40	120	240	20	120	12.5	80	20	60	120	10	60		75-100mcg	1	8		
50	150	300	25	150	15	100	25	75	150	12.5	75		100-150mcg	1.5	10		
60	180	360	30	180	20	120	30	90	180	15	90		100-150mcg	2	12		
70	210	420	35	210	25	140	35	105	210	17.5	100		125-175mcg	2.5	14		
80	240	480	40	240	27.5	160	40	120	240	20	120	125-200mcg	2.5	16			

- Two thirds of palliative care patients need <180mg/24hrs of oral morphine
- The dose conversion ratio of morphine to oxycodone is approximately 1.5-2:1. For the purposes of this guidance we have adopted a 2:1 ratio
- The dose conversion ratio of SC diamorphine: SC alfentanil is from 6-10:1. It is prudent to use the more conservative ratio when switching from one to the other e.g. if switching from diamorphine to alfentanil, use dose conversion ratio 10:1 so that 10mg diamorphine = 1mg alfentanil. If switching from alfentanil to diamorphine use dose conversion ratio 6:1 so that 1mg alfentanil = 6mg diamorphine.
- The dose conversion ratio of SC Alfentanil: SC fentanyl is approximately 4-5:1

TRANSDERMAL (TD) OPIOID PATCHES

Fentanyl TD patch micrograms/hr	Approximate oral Morphine mg/24hours
12	30-45
25	60-90
37	90-135
50	120-180
62	150-225
75	180-270
100	240-360
125	300-450
150	360-540
175	420-630
200	480-720

Buprenorphine TD micrograms/hr	Approximate oral Morphine mg/24hrs
5	10-20
10	20-30
15	30-40
20	40-50
35.5	80-90
52.5	120-130
70	160-180
Maximum authorised dose is two 70micrograms/hr patches	

- A PO morphine:transdermal fentanyl dose conversion ratio of 100-150:1 is used (PCF6 & BNF 100:1, Public Health Education Opioids Aware Resource 150:1) resulting in a dose range of oral morphine per patch strength e.g. Fentanyl TD 25mcg/hr patch approximately= 60-90mg oral morphine/24hrs
- It is suggested that for conversions from oral morphine to fentanyl patches, the lower doses of fentanyl should be used for patients who have been on oral opioids for just weeks and the higher doses for people who have been on a stable and well tolerated oral opioid regimen for a longer period.
- Transdermal fentanyl patches are changed every 3 days (72 hours)
- A PO morphine: transdermal buprenorphine dose conversion of 100:1 is used (PCF6)
- A variety of transdermal buprenorphine patches are available, changed either every 3, 4 days or 7 days. Check carefully before prescribing & instructing the patient.

Resources: Palliative Care Formulary 6th Edition (PCF6) BNF

UK Medicines Information: How should conversion from oral morphine to fentanyl patches be carried out?

https://www.sps.nhs.uk/wp-content/uploads/2017/12/UKMI_OA_Conversion-from-oral-morphine-to-fentanyl-patches_November-2017_Final.docx

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