Anticipatory Medications Template V1.3

Deployed to all GP Practices in 5 Hampshire CCGs March 2020 as part of the Palliative Care response to COVID19

The following pages illustrate the Anticipatory Medications Dose Calculation Worksheets developed over much of 2019 to sit alongside the Future Planning Template and SHFT/Solent Community Syringe Driver and PRN Administration Order sheets. In response to COVID-19 this work was completed over 2 weeks in March and all of the resources mentioned were distributed to all EMIS practices by ArdensQ and all SystmONE practices via Southampton and Portsmouth CCG IT departments. This work was completed by the release of clinical Palliative Medicine Consultant time by SHFT, Solent NHS Trust and Rowans Hospice, without any additional funding.

Introductory page from the EMIS template is shown in figure 1. Generally SystmONE Template views are used to illustrate contents. Both S1 and EMIS templates link to the same flowcharts held in the FuturePlanning.org.uk webpages.

Template Runner							
Pages «	Template information						
Introduction and information	This template is produced by Ardens for EMIS Web in association with the Future Care Planning Project and Dr. Steve Plenderleith, consultant in pallative care.						
Pain	This template is intended for use by clinicians as an aid but is not intended as a replacement for clinical judgement in the care of individual patients.						
Nausea and Vomiting	For queries, or to report broken links, please email : ardens.emis@nhs.net						
Breathlessness	Original © Future Planning Project						
Secretions	This version © Ardens-Q Ltd.						
Agitation and Delirium	Information						
COVID-19	This template is designed to help guide clinicians in starting safe doses of (primarily) end of life anticipatory medications.						
	It is your responsibility to check course, doses and routes of administration, as well as contraindications and allergies, before giving any medicine. The links provided lead to external sites - we do not endorse, or have control over the content or accuracy of these sites.						
	Introduction						
	The Future Care Planning Project is supported as part of an NHS and hospice partnership:						
	Click to view supporters of the furture planning template						
	Future Care Planning Project Information						
	For project information and additional resources, please visit the following link:						
	Euture Planning Website						
	Template Version						
	Template entry Text Anticipatory prescribing (v13.5) by Ardens-Q Ltd. 29-Mar-2020						
	This is version 13.5 (Plenderleith v1.2) of the Anticipatory Prescribing template, last updated Mar 2020						

Figure 1.0 - Introductory Page

Figure 2.0 - Pain Control

s Drug Dose Worksheet click the associated link to view Opioid Naive Weak Opioids
Opioid Naive
Weak Opioids
Oral PRNs
Difficult EoL Drugs
Modified Release Opioids
Opioid Patches





Specialist Palliative Care telephone advice 24/7 may help; particularly if sought in advance as less common SC drugs can then be sourced prior to being required. Seeking advice does not require a referral.

>3 YES



Figure 3.0 - Anti-emetics

Y Anticipatory Meds Subcut Drug Dose Worksheet







erebral irritation headaches.) - when initiating a new CSCI* drug, doses should be based upon the patients response to SC PRN use of that drug.

SC PRN use of that drug. - dose ranges can be used in the community. CCTs will start with the lowest dose unless clearly instructed otherwise. - dose ranges will generally allow for a single 50% increase. Wider ranges need to be clinically justified in each case. Remember Gosport.

Specialist Palliative Care telephone advice 24/7 may help; particularly if sought in advance as less common SC drugs can then be sourced prior to being required. Seeking advice does not require

*Continuous Subcutaneous Infusion (CSCI)





Figure 4.0 - Breathlessness

End of Life Mx of Breathlessness Non Pharmacological Optimise positioning, usually more upright rather than laying flat. Use of fan, or increased airflow by opening windows, can improve the sensation of the If tolerated, seems to be most effective if cool air moves over the face. Optioids Can be helpful for breathlessness at rest or on minimal exertion. (opioids do not imple Regular delivery of opioid (via syringe driver) is thought to be superior to prn use Optioid Naïve	Breathlessness Resources
Syringe Driver CSCI morphine 5-10mg over 24 hours. (Consider oxycodone if morphine 5-10mg over 24 hours. (Consider oxycodone if morphine 5-10mg over 24 hours.) Established Opioids If used for another reason e.g. pain; dose increase may be beneficial for breathless If already using a fentanyl patch, continue the patch and add additional via syringe dr	ess (suggest discussion with palliative care team)
Associated anxiety or panic with severe refractory breathlessness	
Trial PRN midazolam 2.5 – 5mg (up to hourly) If effective, and needing more than 2 doses in 24 hours - Syringe Driver CSCI midaa If ineffective, discuss with specialist palliative care. Consider use of levomepromazin	
Trial PRN midazolam 2.5 - 5mg (up to hourly) If effective, and needing more than 2 doses in 24 hours - Syringe Driver CSCI midaz If ineffective, discuss with specialist palliative care. Consider use of levomepromazin	
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Trial PRN midazolam 2.5 - 5mg (up to hourly) If effective, and needing more than 2 doses in 24 hours - Syringe Driver CSCI midaz If ineffective, discuss with specialist palliative care. Consider use of levomepromazin Stridor Suggest discussion with specialist palliative care team If associated anxiety or panic, treat as above Consider use of dexamethasone s/c Only use for patients with hypoxaemia (sats < 92%) who show benefit.	e 6.25 - 12.5mg s/c PRN
Trial PRN midazolam 2.5 - 5mg (up to hourly) If effective, and needing more than 2 doses in 24 hours - Syringe Driver CSCI midaz If ineffective, discuss with specialist palliative care. Consider use of levomepromazin Stridor Suggest discussion with specialist palliative care team If associated anxiety or panic, treat as above Consider use of dexamethasone s/c Cautions - Oxygen Only use for patients with hypoxaemia (sats < 92%) who show benefit.	e 6.25 - 12.5mg s/c PRN

This advice relates to upper airways secretions collecting in the throat and upper airways of a semi-concious patient in the last days/hours of life. Research has shown that secretions & associated noises often distress clinicians more than family, & family more than the patient. Secretions often indicate that a patient is unconcious, unaware & hence, not swallowing or coughing to clear saliva. Explanation often provides more relief than medication. Treatment if required, where a patient is aware & coughing unsuccesfully, should start as soon as secretions develop Anticipatory Prescription Prescribe - Hyoscine butylbromide [Buscopan®] 10 Ampules 20mg / ml SC Inj. Also supply a signed Community Palliative Care PRN Admin Order with Hyoscine butylbromide 20mg SC PRN 4hrly. Seek advice if requiring more than 4 doses in 24hrs. (up to x4 / 24hrs) **Alternative Drugs** Svringe Driver Starting dose should be based upon the response to initial PRN doses. For those areas Usual ranges are pre-printed on the Community Palliative Care Syringe Driver Admin Order with using glyco 1st Hyoscine butylbromide 60-120mg CSCI over 24hrs. line. Alternatives Consider Reducing doses or using PRN dosing only if known to have an eGFR <30ml/min. Also consider Examination (auscultation) may be advisable for patients with a history of left sided heart failure or with evidence, or at high risk, of a LRTI or aspiration. Hyoscine will do nothing for purulent chest secretions of pulmonary oedema. Ensuring carers do not give food or fluid when this cannot be safely managed may reduce further aspiration. In these cases careful consideration of the appropriateness of treatment with diuretics or antibiotics (potentially in hospital) should take place. The patients previous wishes should be considered. If clearly dying and not considered a reversible

www.futureplanning.org.uk/EoLSecretions

deterioration then palliative care advice may be helpful.

Figure 6.0 - Agitation

				-			_
roduction	PAIN N&V Breathless	sness Secretions Ag	gitation COVID-19	9			
Ind of	Life Managem	nent of Agitati	ion, Deliriu	m & Anxiety			
Fire	- Fatabliak nation	tia duina vathavt	, han this hains		se of hyperactive deli		
FIIS	t - Establish patien	it is dying, rather ti	nan this being	a reversible cau	se of hyperactive den	rium:	
oes ti	ne previous illness	• •					
•		ffects (opioid toxicity	· ·		·		
:		tastases - missed ste ectrolyte disturbance					
•		ers (hyperthyroidism,	1 N N N N N N N N N N N N N N N N N N N		,ponda donna,		
Sec	ond - Where poss	sible, aim to rever	se anv potenti	al causes of agita	ition, delirium or anxie	etv.	
•					Zs, anti-epileptics? Cons		king advice.
f unab	le to communicate,	consider;					
•		· · · ·			to pressure areas, stiffn	ess, etc.	
•		listress from not beir ortable bowels - thou			r or pads & re-assure.		
			U 11		ean the mouth & tongue.		
•		· ·			ay be better than a drug		
•	disturbance. Som	etimes families have	to be guided to	give the patient so	ome space/quiet/time.		
Thir							
1.111	u - Support & edu	cation of family me	ambers/ carers	around non-pha	rmacological manage		for printing.
					Garers	leaneri	or printing.
Fou	rth - Medication						
•	if eGFR 30 or les	ss. Start with half F	PRN doses, ex	pect prolonged d	luration of action & av		-
							if possible.
			Selec	t link to view sug	gested medications.	An 😡	itation
r			Selec	t link to view sug	gested medications.	• •	
						A16.0	select link.
nticip	atory Medicat	ions Only for A	Agitation, Del	irium & Anxiety		- AISO	select link.
		Consider higher start	ting docor when a nationt'r	distrors is course & /or dongorou	s to self or others (seek advice from Palliat	tiun Caral	
				Midazolam 5-10mg SC PRN ho			
	es are for hyperactive delirium ess or distressed patient in the	Haloperidol DELIRIUM 1 - 2.5mg SC stat		SECOND LINE If midazolam/haloperidol	MAINTENANCE		Syringe Driver Admin Chart; - should only be written in advance
Much l	last day or so of life. ower doses or reducing anti-	Onset - allow >30min (PRN 4hrly		ineffective or unavailable	Consider Syringe Driver		that need to continue when the oral ro E.g. pain relief, anti-emetics, anti-epile psychotics and dexamethasone (for rai
	c drug burden is recommended active and low level delirium.	up to x4/24hr	Reconsider possible	Levomepromazine 12.5-25mg SC stat	Haloperidol 2.5-10mg/24hrs CS0 OR	21	cerebral irritation headaches.) - when initiating a new CSCI* drug,
	P	Prominent BOTH	causes Bladder Bowels PAIN Disturbance	Onset - allow 1hr (PRN 4hourly	AND/OR		be based upon the patients response t of that drug. - dose ranges can be used in the co
		Feature		up to x4/24hrs)	Midazolam 10-50mg/24hrs CSC		Community Care Teams will start with dose unless clearly instructed otherwis
		Midazolam 2.5-5mg SC stat Onset – allow >30min		L			 dose ranges should generally allor 50% increase. Wider ranges need to be justified in each case. Remember Gosp
		ANXIETY (PRN Hourly up to x4/24hrs	BOTH Try low dose of		THIRD LINE Seek Palliative		Specialist Palliative Care telephone add help; particularly if sought in advance a
			each drug together		Care advice		common SC drugs can then be sourced being required. Seeking advice does no

Higher doses, inc nds of ranges sho lead to paradoxi

idol 10 Ampules Smg/1ml SC Inj. am 10 Ampules 10mg/2ml SC Inj. Gormunity Pol Care PRN Admin Chart with 1.5mg SC PRN 4hrly, Seek advice if requiring more than 4 doses in 2hrls. (up to v4/24hrs mg SC PRN Hourly. Seek advice above x4/24hrs

Halo

Midazolam 2.5-5mg SC P

End of Life -

Asymptomatic ANTICIPATORY PRESCRIPTION

SC Replacement of LONG TERM ORAL ANTI-PSYCHOTICS, ANTI-DEPRESSANTS or SEDATIVES

Figure 7.0 – COVID-19

ntroduction PAIN N&V Breathlessness Secreti	ons Agitation COVID-19	
COVID-19 Issues to consider.		March 2020
We will endeavour to keep this page and mo	ore importantly the Future Planning webpages it	links to as up to date as possible.
staff or drugs become scarce during this crisis. As is usual in Palliative Care all drugs are used "of	ves ideas for drugs that may be used if syringe drivers, f licence". Most have had long established use in End actions have some evidence but not a lot of experience.	
have put together this chart with advice from many "If I find myself looking after my (>75 year old) pare support, then how can I best use my knowledge to	ents or residents in a care home, without resources or	P&SEH End of Life Drugs chart
from the rectal route, as well as oropharyngeal & re medication by any route oral, buccal, SL or PR. Dr Steve Plenderleith, Consultant in Palliative Medi Palliative PRN & Syringe Driver Administ		
Print Comm Palliative PRN Admin Order Sheet	Hampshire Area & District Prescribing Comm Identical to those used by Solent and Southe	
🚝 Print Comm Palliative Syringe Driver Admin Order	(These links can be changed if this template is bei	ng used in another county using different forms.)

V 1.2 of the FP Anticipatory Meds Worksheet - March 2020

	1 st Line			his assumes a patient is unable to swallow any oral medications safely) 2nd line replacementdrugs when 1 st lines are not available.				3rd Line	
					and me replacements	and a switch a miles of en	for available.		ord circ
	Breathlessness / Pain (Chest pain seen in some COVID cases)	Agitated delirium	Respiratory Secretions ‡	Anxiety (Breathlessness, if not held with 3 drugs)	Breathlessness / Pain	Agitated Delirium	Respiratory Secretions ‡	Anxiety (Breathlessness if not symptom controlled with 3 drugs)	
Driver	Morphine 10-30mg/24hrs CSCI (2.5-5mg SC PRN Hourly x4/24hrs)	Haloperidol 5mg/24hrs CSCI (0.5-1.5mg SC PRN 4hourly x4/24hrs)	Hyoscine butylbromide 60-120mg/24hrs CSCI (20mg SC PRN 4hourly x3/24hrs)	Midazolam 10-30mg/24hrs CSCI (1.25-5mg SC PRN up to hourly x4/24hrs)	(1.25-5mg SC PRN	Levomepromazine 25mg/24hrs CSCI (12.5-25mg SC PRN 4hourly x3/24hrs)	Glycopyrronium 600-1200mcg/24hrs (micrograms) CSCI (200-300mcg SC PRN 4hourly x4/24hrs)	Levomepromazine if not already on haloperidol. See also Lorazepam SL/Oral	Try 1 st line and 2 nd line suggestions on the relevant row. If drugs are not available then consider drugs further
Professional available but no syringe drivers available	Fentanyl Patch 12-25mcg/hr Replace 48hourly (Morphine Inj. 2.5-5mg SC PRN Hourly x4/24hrs)		Hyoscine butylbromide 40mg SC 12hourly Increase to 8hourly if symptoms persist (20mg SC PRN 4hourly x4/24hrs)	6hourly x2/24hrs)	Oxycodone 2.5-5mg SC Hourly PRN x4/24hrs)	Levomepromazine 25mg SC Once Daily (12.5-25mg SC PRN 4hourly x3/24hrs)	4hourly x3/24hrs)	Diazepam enema 5-10mg Once Daily (Smg PR As required 4hourly x2/24hrs)	down (or up) each symptom column. If in doubt call palliative care or your Trust pharmacist for advice. Other replacement dever much be available
Lay carer only, willing to give SC injections	If you are not sure about	As row above. No syringe drivers available. Clinical teams not able to guarantee their availability for giving as required injections or regular injections. If you are not sure about the need for giving an As Required injection at any time then please telephone for advice/support from the community or hospice team supporting you, local palliative care team or patient's GP practice.						drugs may be available for each indication; however these will not be drugs you commonly	
Lay carer available but unable to give SC meds	Fentanyl Patch Dose as above. A fan if tolerated. (ORAL Morphine 20mg/ml up to 1ml [0.5ml in each cheek] PRN 2hourly x4/24hrs) Increase doses only when		patch 1mg/day size Replace 48 hourly Repositioning see UNK to guidance.	See above	Buprenorphine Patch Dose as above	Olanzapine Oro-dispersible 10mg OD Buccal (Smg Buccal As required 4hourly X4/24hrs)	Atropine 1% eye drops 1-2 drops SL 6-8 hourly	Seek advice	use. All drugs should be written up on locally agreed Community Administration Order New pre-printed versions may be
willing to give	#Morphine MR Tablet 10-30mg Twice Daily PR (Morphine Supp. 5-10mg PR As Required	See above	See Above	# Diazepam Enema 5-10mg Once Daily PR (Smg As required	#Oxycodone MR Table 5-15mg Twice Daily PR (Oxycodone oral liquid 5-10mg PR As Required X4/day)	t See Above	See Above	# Diazepam Tablet 5-10mg Once Daily PR (5mg As required 4hourly x2/24hrs)	provided if legal and policy blocks are removed.

*III drugs are required in the syringe driver then SHFT/Solent policy does allow this in "extreme" circumstances. COVID-19 is extreme. Please D/W palliative care or your community matron if concerned. We will not be able to afford to tie up 2 syringe drivers with none patient just because of a policy. 1 in all cases consider positioning and other non-pharmacological measures. Seek physio **advice** if required. # These suggestions are made assuming all other medications are unavailable, inappropriate or contraindicated. Also, recognising the slow onset of pain relief and titration with Opioid transdermal patches. If a patient is breathless and/or in pain and the facility to setup a Syringe Driver or give SC PRNs is not available, then better to use an unusual treatment, which we are not used to, but should work, rather than nothing. Time will tell

Lorazepam blue tablets	- Genus brand will dissolve in a moist mouth if placed alongside/ur	nder the tongue - SL	
SC – Subcutaneous SL – Sublingual	Lay Carer – relative/friend/care assistant CSCI - Continuous SubCutaneous Injection (syringe driver)		As required or PRN – only give if patient becomes symptomatic X2, x3 or x4/24hrs - seek advice if this number of As Required or PRN doses is exceeded in a 24hr period.
Batalana ana a			

Patches - patients with fever are likely to absorb the drug more rapidly, hence the suggestion to change earlier than usual practice. Also, EoL patients may be unable to report their patch becoming less effective after 2 days, - usually only for stable pain and will take 12-24hours to reach effective blood levels. In spite of fever absorption may be poor in very cachesic patients. Wessex Palliative Care Physicians March 2020

www.futureplanning.org.uk/covid19_generalguidance.html