Shared Care Guideline: HYDROXYCARBAMIDE





Overview

Hydroxycarbamide is a haematology drug

Indication

Used for the management of haematological myeloproliferative disorders including:

Licensed:

- Essential Thrombocythaemia
- Chronic Myeloid Leukaemia
- Primary Proliferative Polycythaemia (Polycythaemia Vera)

Unlicensed:

- · Myelofibrosis,
- Unclassified myeloproliferative disorders

Hydroxycarbamide is also used in CDDFT in Chronic Lymphoid Leukaemia (CLL) Use for this indication is <u>not</u> covered by this shared care agreement as responsibility remains with the specialist.

Also Sickle cell is a real rarity in CDDFT there for use for this indication would also remain with the specialist and therefore **not** covered by this shared care agreement

Dose

Typical doses range from 500mg to 3000mg daily. A small number of patients may require alternate day dosing. Doses are adjusted to clinical response and will be provided in writing by the reviewing consultant.

- Allopurinol may be co-prescribed for the first 1 to 2 months.
- Patients with Essential Thrombocythaemia should also be prescribed Aspirin 75mg daily

Specialist's Responsibilities

Initial investigations:

Full Blood Count (FBC), Liver Function Tests (LFTs), Urea & Electolytes (U&Es)

Initial prescribing until stable:

Prescribing responsibility and monitoring to stay with the specialist until patient has been on a stable dose for at least 6 weeks at which point shared care is requested.

Specialist to issue a prescription for enough medication to last until shared care is accepted by GP. This will usually be a minimum of 28 days.

- Specialist to provide chemotherapy record booklet for recording of monitoring and information
- Specialist to provide patient/carer with relevant written information on use, sideeffects and need for monitoring of medication
- Review results of safety monitoring and request additional tests as required.
- Disease monitoring response to treatment and need to continue therapy
- Continue to review the patient at agreed specified intervals (minimum annually), sending a written summary to the GP whenever the patient is reviewed, including the current dose to be prescribed
- · Provide any other advice or information for the GP if required

Communication and Documentation to GP:

 Obtaining agreement of GP to participate in shared-care arrangement for Hydroxycarbamide therapy. This will be by direct communication or by completing a completing a copy of the shared care request letter (appendix 1) to the GP

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Shared Care Guideline for HYDROXYCARBAMIDE
Current version is held on NECS Website
Check with internet that this printed copy of the latest issue

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- The specialist must ensure that the GP is aware when the next blood monitoring is required.
- The GP Must be made aware of any additional monitoring requirements specific to the patient
- Prompt communication with the GP regarding the patient's progress, any reassessment and changes in treatment.
- Provide additional information and advice to the GP on actions he/she may need to take
 e.g. on dosage adjustment, other changes in therapy and management of adverse
 effects, as required.

GP's Responsibilities

Maintenance prescription:

- Prescribe Hydroxycarbamide in accordance with the specialist's recommendations as outlined in the shared care request letter
- Check the patient has had one dose of pneumococcal vaccine (re-vaccination is not recommended)
- Ensure no drug interactions with other medicines
- Offer influenza vaccine annually

Clinical monitoring:

Continue to clinically monitor patient in line with this shared care agreement and referral letter from specialist (as described in clinical monitoring section below)

Criteria requiring specialist contact:

- Failure to attend for review or undertake blood tests
- Intolerance of drugs
- Communications failure

Documentation to specialist:

 Accepting or rejecting request for shared care within 28 days, if rejecting please state concerns and reasons Blood results to specialist via use of patient-held record.

Clinical monitoring:

Arrange and record ongoing monitoring as agreed with specialist – this will normally be:

- **FBC and LFTs**: a minimum of once every THREE months for the duration of therapy (in line with advice from specialist)
- Ask about oral ulceration/sore throats or unusual bruising at every consultation.

NOTE – this guideline sets out the standard monitoring requirements, however it is essential that each patient is considered on an individual basis and monitoring frequency should reflect this. The GP should be made aware of any deviations.

Safety monitoring:

Please refer to Summary of Product Characteristics (SPC) or BNF /eBNF for full details of adverse effects, contraindications, cautions and drug interactions.

Monitoring for response and adverse drug reactions (ADRs)

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Adverse Events:

Adverse event	Action to be taken	
White Blood Cells (WBC) less than 4 x 10 ⁹ /L	Urgently contact the specialist, if unable to do so withhold the	
Neutrophils less than 1.0 x 10 ⁹ /L		
Haemoglobin decrease from baseline by 30g/L		
More than a TWO fold rise in Alanine		
transaminase (ALT) / Aspartate aminotransferase	medication.	
(AST) from upper limit of normal		
Platelets less than 100 x 10 ⁹ /L		
Rash, oral ulceration/sore throat,	If present arrange urgent FBC	
bruising/bleeding		
Mean Cell Volume (MCV) more than 105	Vitamin B ₁₂ & folate should be	
	checked and if not in range contact	
	specialist	

- Macrocytosis occurs in almost all patients and may persist for up to one year after stopping therapy
- Rarely: anorexia, nausea, vomiting, diarrhoea, headache, drowsiness, dizziness, cutaneous hyperpigmentation. If severe or persistent, refer to the specialist.

All suspected serious reactions should be reported to the specialist and the MHRA

Contraindications

Pregnancy

Cautions

- Renal dysfunction: Hydroxycarbamide should be used with caution in patients with marked renal dysfunction. Dose modifications are specified in the NE cancer network Chemotherapy protocol
- Mild to moderate hepatic impairment

Drug Interactions

- There are no significant drug interactions but see British National Formuly (BNF) or eBNF
- Toxicity may be potentiated by previous or concomitant radiotherapy or cytotoxic therapy
- Patients should not be receiving anti-retroviral therapy containing didanosine and/or Stavudine.

Other Information

Fertility, Pregnancy and Breast-feeding:

- Female patients must be advised not to conceive whilst receiving hydroxycarbamide.
- A reliable form of contraception should be used by men and women whilst on hydroxycarbamide.
- Patients should not breastfeed whilst receiving hydroxycarbamide.

General:

- GPs should be alerted to any unexplained bruising or bleeding.
- Live vaccines should be avoided by patients receiving hydroxycarbamide
- Passive immunisation using Varicella immunoglobulin (VZIG) should be considered in non-immune patients if exposed to chicken pox or shingles. Contact virology for advice if exposure is suspected
- Patients receiving long term therapy should be advised to protect skin from sun exposure

Contact Details

Thank you for sharing the care of this patient. If you have any concerns or queries, please contact the Consultant, secretary or call the appropriate helpline below. Clinical Nurse Specialists 01325 743933 Ward 42 DMH 01325 743938

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Department of Haematology County Durham and Darlington Foundation Trust

GP ac				
Dear I	Or			
Requ	est for Shared Care of Hyd	roxycarbamide	Date:	
Re:	Patient's name Address		DOB: Hospital Number:	
This p	atient has been prescribed F	lydroxycarbamide	for the management of	
□ Chr		☐ Myelofibros☐ Unclassified	is (unlicensed) d Myeloproliferative disorders	S (unlicensed)
The pa	atient's current dose is	per day		
	patient was commenced on the dose since		and has been	stable on the
	d now like to ask you to tak t, as agreed by your CCGs a			dication for this
The sl	hared care document lists the	e monitoring require	ments for this medication.	
	ext blood monitoring is due ith the shared care guideline.		and should b	e continued in
In add	lition, the following patient sp	ecific monitoring is r	required for this patient	
	s part of the shared care gui :://medicines.necsu.nhs.uk/gu			ittee, available
	atient will remain under reg as described in the shared c		by his or her usual consul	tant/ specialist
agree	e send back the second pa ment to this arrangement. If lease contact my secretary a	you are not happy to	o accept this patient or have	
Yours	sincerely			
Cons	ultant name			
Conta	nct details			

GP Agreement

Patient's Name: DOB: Hospital No:
I agree to take over the prescribing and monitoring of Hydroxycarbamide in line with the approved
shared care document as found at http://medicines.necsu.nhs.uk/guidelines/durham-darlington/
Dose to be prescribed
Dated/
Signed:
GP's Name:
GP contact details
Please return to Consultant's secretary. You may wish to keep a copy for your records.