Xromi[®] (Hydroxycarbamide) 100 mg/ml oral solution

Healthcare Professional Guide

Important information on minimising the risk of medication errors and serious adverse events

Keep this guide in a safe place for further reference

A patient guide is available. You are requested to provide a copy of the patient guide to every patient/caregiver when treatment with Hydroxycarbamide is initiated

Further copies of this guide and the Patient/Carer guide can be obtained by emailing xromi@novalabs.co.uk

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1. Indication, dosage and dose adjustment

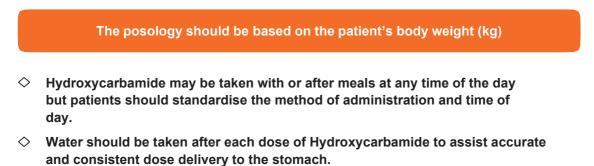
Indication

Hydroxycarbamide is indicated for the prevention of vaso-occlusive complications of Sickle Cell Disease in patients over 2 years of age.

Dosage and dose adjustment

Hydroxycarbamide is for oral use.

Treatment should be supervised by a physician or other healthcare professionals experienced in the management of patients with Sickle Cell Disease.



In adults without swallowing difficulties, solid oral formulations may be more appropriate and convenient.

The table below summarises the recommended dosage and adjustments according to the patient's features:

Cases	Recommended dosage and adjustment	
Adults	 Usual starting dose: 15 mg/kg/day Usual maintenance dose: between 20-25 mg/kg/day Maximum dose: 35 mg/kg/day Hydroxycarbamide causes bone marrow suppression and haematological status must be monitored 	
Children and adolescents (2-18 years of age)	No dose adjustments are necessary	
Children less than 2 years of age	Not indicated for children less than 2 years of age	
Elderly	Lower dosage regimen may be required	

Cases	Recommended dosage and adjustment	
	If creatinine clearance > 60 ml/min: 15-35 mg/kg per day	
	Since renal excretion is a pathway of elimination, consideration should be given to decreasing the dosage of Hydroxycarbamide in renally impaired patients	
Renal impairment	 Blood parameters for renal impairment should be checked before starting treatment and closely monitored during treatment 	
	 Hydroxycarbamide should be discontinued if necessary 	
	 Hydroxycarbamide is contraindicated and must not be administered to patients with severe renal impairment (creatinine clearance < 30 ml/min) 	
	 There are no data that support specific dose adjustments in patients with hepatic impairment 	
Hepatic impairment	 Blood parameters for hepatic impairment should be checked before starting treatment and closely monitored during treatment 	
	 Hydroxycarbamide should be discontinued if necessary 	
	 If appropriate, restart at a lower dose 	
	 Hydroxycarbamide is contraindicated in patients with severe hepatic impairment (Child-Pugh classification C) 	
If abnormality of blood cells count	If neutropenia or thrombocytopenia occurs, temporarily withhold Hydroxycarbamide dosing and monitor full blood cell count with white cell differential weekly	

2. Handling of Hydroxycarbamide

Each pack contains:

- ♦ One 150 ml bottle capped with a child-resistant closure.
- ♦ A bottle adaptor.
- ♦ Two dosing syringes for accurate measurement of the prescribed dose of the oral solution.



	Syringe Type	
Syringe volume	3 ml	10 ml
Colour	Violet	Violet
Graduations	Each graduation of 0.1 ml contains 10 mg of Hydroxycarbamide	Each graduation of 0.5 ml contains 50 mg of Hydroxycarbamide
Dose volume	Doses less than or equal to 3 ml	Doses more than 3 ml

Please advise the patient or carer which syringe to use to ensure that the correct volume is administered

IMPORTANT

- Store in a refrigerator (2 °C 8 °C). After first opening of the bottle, discard any unused contents after 12 weeks
- Women who are pregnant, planning to be or breastfeeding should <u>not</u> handle Hydroxycarbamide

Ensure that the patient or carer is well informed about the precautions for proper handling

- ◇ Wash hands before and after administering a dose.
- ◇ Wipe up spillages immediately.
- ♦ Use disposable gloves when handling Hydroxycarbamide.
- Wash immediately and rinse thoroughly if Hydroxycarbamide comes into contact with the skin, eyes or nose.

3. Avoiding medication errors

When switching patients from capsule or tablet to liquid formulation, there is a potential for medication errors to occur.

To avoid potential medication errors, please note the following:

- Hydroxycarbamide 100 mg/ml oral solution is bioequivalent to tablet and capsule formulations. No alteration in dose is necessary when switching formulations.
- It is very important that precise instructions are provided to patients/parents/carers.
 Patients and parents/carers should be advised on the exact volume to administer and the correct syringe (3 ml or 10 ml) to use.

For example:

- for 100 mg dose give 1.0 ml using the SMALL 3 ml syringe
- for 500 mg dose give 5.0 ml using the LARGE 10 ml syringe

4. Need for contraception

The use of effective contraception **is strongly recommended** for both male and female patients before and during treatment with Hydroxycarbamide.

Both male and female patients should understand the need for contraception before and during treatment with Hydroxycarbamide

Hydroxycarbamide may be a potent mutagenic active substance and has been described as teratogenic in animals. Male and female patients should be informed that Hydroxycarbamide may harm their sperm and eggs.

5. Risk to male and female fertility, potential risk to foetus and breastfeeding

5.1 Male fertility

- Male patients should be informed that fertility might be affected by treatment.
- Very common reversible oligo- and azoospermia have been observed in man, although these disorders are also associated with the underlying disease.

Healthcare professionals should discuss about the possibility of sperm conservation (cryopreservation) before the start of therapy

5.2 Women of childbearing potential

- There is limited amount of data from the use of Hydroxycarbamide in pregnant women.
- Female patients on Hydroxycarbamide wishing to conceive should stop treatment 3 to 6 months before pregnancy if possible.
- Hydroxycarbamide can cause foetal harm when administered to a pregnant woman, as it crosses the placental barrier.

Hydroxycarbamide is contraindicated and must not be administered to patientswho are pregnant

The patient should be instructed to immediately contact a doctor in case of suspected pregnancy.

The patient should discuss with the doctor and must be informed of the potential risk to the foetus.

Careful follow-up of the pregnant patient should be planned, including appropriate clinical examinations, laboratory tests and ultrasound scans

Breastfeeding

Hydroxycarbamide is excreted in human breast milk. Breastfeeding is contraindicated and patients should <u>not</u> breastfeed during the treatment because of the potential for serious adverse reactions in the breastfeeding infant.

6. Management of adverse drug reactions

The table below summarises the adverse effects most frequently reported during treatment with Hydroxycarbamide. An assessment of the risks and benefits should be carried out whenever any adverse effect occurs.

Recommendations for the management of some adverse drug reactions with known frequency

Side Effect	Frequency	Management
Bone marrow depression including neutropenia (< 1,500 /μl) Reticulocytopenia (< 80,000 /μl)	Very common	 The effective dose may be the maximal tolerated dose Discontinuation until blood counts return to normal, then resume at reduced doses Blood counts usually return to normal within two weeks of discontinuation of Hydroxycarbamide
Thrombocytopenia (< 80,000 /μΙ), anaemia (haemoglobin < 4.5 g/dl)	Common	 Treatment at a dose which caused haematological toxicity must not be attempted more than twice In case of anaemia, check for infection with Parvovirus, splenic or hepatic sequestration, renal impairment
Macrocytosis	Very common	 The macrocytosis may mask the incidental development of folic acid deficiency; regular determinations of serum folic acid are recommended
Oligospermia, azoospermia	Very common	Consider cryopreservation of sperm before starting treatment
Dizziness, Headaches	Common	 Check for a complication of Sickle Cell Disease such as anaemia or otorhinolaryngological manifestation Discuss discontinuation of treatment
Skin reactions (such as skin ulcer, oral, nail and skin hyperpigmentation, dry skin, alopecia)	Common	 Discuss relationship with the treatment and discontinuation of treatment
Leg ulcers	Rare	 In case of history of leg ulcer, initiate with caution Topical care Prevention by surveillance of skin condition and avoidance of local injuries Discuss dose reduction or discontinuation of treatment

For the full list of adverse reactions, please refer to the Summary of Product Characteristics.

Reporting of suspected adverse reactions

Reporting suspected adverse reactions after authorisation of the medicinal product is important. It allows continued monitoring of the benefit/risk balance of the medicinal product. Healthcare professionals are asked to report any suspected adverse reactions to:

HPRA Pharmacovigilance

Health Products Regulatory Authority

Earlsfort Terrace IRL

Dublin 2 D02 XP77

Tel: +353 1 676 4971

Website: www.hpra.ie E-mail: medsafety@hpra.ie

Adverse events should also be reported to: **Nova Laboratories Ltd**, Martin House, Gloucester Crescent, Wigston, Leicester, LE18 4YL, United Kingdom

Email: QA@novalabs.co.uk

7. Summary of Product Characteristics

This Healthcare Professional Guide should be read in conjunction with the Summary of Product Characteristics.

The Summary of Product Characteristics (SmPC) is available at:

www.medicines.ie

Electronic copies of this Healthcare Professional Guide and the Patient/Carer Guide are available from the website of the Health Products Regulatory Authority or www.medicines.ie