1.0 Policy statement

Patients admitted on hydroxyurea shall not be given hydroxyurea prescription on discharge. Haematology is to prescribe in order to monitor blood work.

2.0 Definitions

- **Hydroxyurea (HU)** is a chemotherapy medicine that has been used to treat many disorders, including sickle cell disease (SCD). Research has shown that patients with sickle cell disease who take hydroxyurea are admitted to hospital because of painful events only half as often as patients who do not take hydroxyurea, have fewer acute chest crises and have less need for blood transfusions if they are admitted to hospital. Please see www.aboutkidshealth.ca.

- **Maximum Therapeutic Dose (MTD)** is maximum dose or clinical efficacy achieved.

- **Transcranial Doppler (TCD)** is a non-invasive ultrasound used to screen for strokes measuring the rate of blood flow through the large vessels on both sides of the brain.

- **Vaso-Occlusive Crises (VOC)** are blockages of the blood vessels anywhere in the body by deformed red blood cells. This causes a lack of oxygen in the affected area of the body. Symptoms depend on where the blood vessels are blocked.

3.0 Guideline
4.0 Related Documents

- Dissolve and Dose Drug Administration
- Chemotherapy At Home: Safely Handling and Giving Medicines
- Chemotherapy At Home: Safely Giving Your Child Capsules
- Hydroxyurea Education and Discussions Tip Sheet
- hydroxyUREA 100 mg/mL Oral Suspension
5.0 References


7. The effect of prolonged administration of Hydroxyurea on morbidity and mortality in adult patients with sickle cell syndromes; results of a 17-year, single center trial (LaSHS). Blood 2010;115(12):2354-2363


9. Ware, RE. How I use hydroxyurea to treat sickle cell disease. Blood 1 July 2010.Vol 115, Number 26

Revised by:

- Melina Cheong, RN, Nurse Practitioner, Division of Haematology/Oncology
- Melanie Kirby, MD, Staff Physician, Division of Haematology/Oncology
- Marina Strzelecki, Clinical Pharmacist, Pharmacy

Attachments:

- Algorithm: Hydroxyurea Therapy
- Hydroxyurea Education and Discussions Tip Sheet.pdf
- hydroxyUREA 100 mg/mL Oral Suspension
- Revision History.docx