Drug Prescribing Guideline



Areas where guideline applicable	John Hunter Hospital Infusion Lounge		
Areas where guideline not applicable	Paediatrics		
Keywords	Iron, infusion, ferric, carboxymaltose, Ferinject [™] , adult, deficiency, anaemia, iron deficit, antenatal, pregnancy, JHH, RNC, medication, pharmacy, drug, Infusion Lounge.		
Authorised Prescribers:	Registered medical officers in Hunter New England LHD		
	For the treatment of iron deficiency where:		
	Oral therapy is not viable		
	Enteric absorption of iron is defective		
	 Patient non-compliance or persistent gastrointestinal intolerance exists 		
Indication for use	A large iron deficit exists		
	Ferric carboxymaltose is not on formulary at JHH. It is not used for inpatients.		
	Outpatients having ferric carboxymaltose administered in the infusion lounge must obtain this medication from a private pharmacy through the PBS and bring it to their appointment		
Clinical condition	Patients with a clearly established indication for parenteral iron therapy, confirmed by appropriate laboratory tests (i.e. iron studies and haemoglobin concentrations).		
Contra-indications	 Known hypersensitivity to ferric carboxymaltose or any of its excipients; anaemia not attributed to iron deficiency e.g. other microcytic anaemia; evidence of iron overload or disturbances in utilisation of iron 		
	Iron overload/haemosiderosis: Regular monitoring of red cell indices and serum ferritin required to detect iron overload.		
	Liver dysfunction;		
	Acute/chronic infections		
Precautions	Asthma, eczema or atopic allergies; hypersensitivity reactions		
	Paravenous leakage – Caution should be exercised to avoid infiltration at the injection site. May lead to long lasting brown discolouration and irritation of the skin. Stop infusion immediately if this occurs.		
	Sodium content – caution in sodium restricted diets Use in pregnancy – give in 2 nd & 3 rd trimester only after risk/benefit evaluation		
	In haemodialysis dependent chronic kidney disease, a single daily injection of ferric carboxymaltose should not exceed 200mg iron.		

	Ferric ca	irboxymaltose (Ferii	nject™) Adult HNELH	ID DPG 14	
	Dosage is base	ed on body weight a	nd haemoglobin conc	entration. See	
	table below:				
	Total Dose				
	Hb g/L Body weight 35-70 kg Body weight ≥70 kg				
a	<100	1500mg	2000m		
Dosage	<u>≥</u> 100	1000mg	1500m	g	
	The maximum single dose of ferric carboxymaltose is 1000mg in one day. Doses should be given a minimum of 7 days apart.				
	Maternity Dosing Following the first 1000mg dose, the haemoglobin is retested in 10 days, a second dose of 500mg or 1000mg may be given on day 14.				
	 Usually 	a one-time infusion	١.		
Duration of therapy	Doses over 1000 mg must be split and given as 2 doses 1000 mg or less at 7 to 14 day intervals – see dosage.				
Administration instructions	Pre-medication & Test dosing are not necessary.				
	• Intravenous injection: ferric carboxymaltose may be administered by IV injection undiluted at a rate of 100mg iron / minute (1000mg over 10 minutes) up to a maximum single dose of 1000mg iron.				
	• Intravenous infusion: Ferric carboxymaltose may be administered by IV infusion up to a maximum single dose of 1000mg iron, diluted in sodium chloride 0.9% solution as below				
	Iron Dose	Solution volume	Made up to Total Volume with	Minimum infusion	
			sodium chloride 0.9%	time	
	100 mg to 200	mg 2 mL to 4 mL	50 mL	3 minutes	
	>200 mg to 500	mg >4 mL to 10 ml		6 minutes	
	>500 mg to 1000	mg >10 mL to 20 m	L 250 mL	15 minutes	
	DO NOT administer more than 1000mg iron per week. DO NOT give via intramuscular or subcutaneous route.				
Monitoring requirements	Prior to commencing infusion, baseline observations should be attended i.e., pulse, respiratory rate & blood pressure Repeat at the end of the infusion.				
Safety.					
Effectiveness	Haemoglobin should be measured prior to infusion and one week post infusion.				
Management of complications	Stop infusion if reaction occurs. Immediate review by medical officer. Adrenaline & facilities for CPR must be available.				
Important Drug Interactions	Oral iron preparations should not be given concomitantly with ferric carboxymaltose. Do not start oral iron supplements for at least 5 days after the last ferric carboxymaltose infusion/injection.				
Basis of Guideline:	1. MIMS I	Full prescribing infor	mation. Accessed 1 st	August 2014	
(including sources of evidence, references)	2. Iron Po	lymaltose Drug Pre	scribing Guideline. HI	NELHD	
	Maternity & Gy	naecology Departm	ent, John Hunter Hos	pital	
Groups consulted in development of this guideline	Gastroenterology Department, Renal Department, John Hunter Hospital				

AUTUODIOATION					
AUTHORISATION					
Author (Name)	Pauline Dobson				
Position	Clinical Nurse Consultant				
Department	Immunology & Infectious Diseases Unit, John Hunter Hospital				
Department Contact (for ongoing maintenance of Guideline)	Pauline Dobson, 4922 3464				
GOVERNANCE					
Initial Enactment date	14/08/2014				
Reviewed					
Expiry date: (24 months from date of original approval)	August 2016				
Ratification date by HNE Quality Use of Medicines Committee	14/08/2014				
Chairperson, HNE Quality Use of Medicines Committee	Signature Name <u>Dr R Pickles</u> Date <u>14/8/2014</u>				
Approved Guideline distributed#	Signature Name Ross Mullen Date 14/8/2014 (Senior Clinical Pharmacist)				
Location					
Guideline Number	GNAH_0503				
Version Number	Version 1.0 22 August 2014				