

Patient Group Direction for Febrile Neutropenia

PGD comes into effect	
Review date	Six months
Expiry date	
Name of Medicines	Piperacillin with Tazobactam (Tazocin®), Meropenem
Professionals to which PGD applies	Registered Nurses who are IV trained within the Department of Paediatric Oncology/Haematology, Rainbow ward, Children's Hospital for Wales
PGD Developed by:	
Consultant Paediatric Haematologist	Dr Indu Thakur
Lead Pharmacist	Mr Eurig Jenkins
Lead Nurse	Sister Kathy Pearce
Consultant Microbiologist	Dr Federica Faggian
On behalf of Cardiff & Vale University Health Board Service Director for Pharmacy and Medicines Management	Mr Darrell Baker
Medical Director	Dr Graham Shortland
Nurse Director	Mrs Ruth Walker

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Clinical Condition	Neutropenic sepsis
Criteria for Inclusion	Patient on active treatment for cancer Febrile with temperature 38° centigrade on one or more occasion Suspected neutropenia Central line present
Criteria for exclusion	Central line not patent Type 1-Penicillin/beta-lactam Allergy (Anaphylaxis to penicillins or beta-lactams including meropenem) Allergic reaction (not-Type 1) to penicillins (including piperacillin with tazobactam) AND meropenem
Seek further advice	Renal impairment Hepatic impairment Urgent medical review needed within 30 minutes if; Rigoring Low oxygen saturation Capillary refill time > 3 seconds Low blood pressure History of Penicillin allergy, then follow pathway

Description of treatment	
Name of medicine	Piperacillin with Tazobactam (Tazocin®) Belonging to the anti-pseudomonas penicillins group
Legal status of Medicine	POM
Form	Intravenous infusion
Strength	4500mg and 2250mg vials
Dosage	90mg per Kg body weight every six hours (Maximum single dose of 4500mg)
Total daily dose	As above Only first dose to be given under PGD
Route of administration	Intravenous infusion over 30 minutes

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Frequency of administration	Every six hours. Only first dose to be given under PGD
Duration of treatment	Minimum 48 hours .Only first dose to be given under PGD
Total treatment quantity	N/A Only first dose to be given under PGD
Adverse reactions	Hypersensitivity reactions including urticaria, fever, joint pain, rash, angioedema, anaphylaxis Nausea, vomiting ,diarrhoea Stomatitis dyspepsia Abdominal pain Injection site reaction

Description of treatment	
Name of medicine	Meropenem Belonging to the carbapenems (beta-lactam antibacterials)
Legal status of Medicine	POM
Form	Intravenous injection or infusion
Strength	500mg and 1000mg vials
Dosage	20mg per Kg body weight every eight hours (Maximum single dose 1000mg)
Total daily dose	As above. Only first dose to be given under PGD
Route of administration	Intravenous injection over 5 minutes or intravenous infusion over 30 minutes
Frequency of administration	Every eight hours. Only first dose to be given under PGD
Duration of treatment	Minimum 48 hours Only first dose to be given under PGD
Total treatment quantity	N/A Only first dose to be given under PGD
Adverse reactions	Nausea, vomiting, diarrhoea Abdominal pain Disturbance in liver function tests Rash, pruritus Headache, thrombocytopenia

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Written & verbal advice for patient/carer	Provide parent/carer with product information leaflet
Follow up	To be seen by junior medical staff within four hours
Arrangements for referral for medical advice	See above
Records of administration for audit	Record administration of first dose on "once only" side of inpatient drug administration record Complete neutropenic pathway document

Staff

Professional qualifications	Registered nurse with NMC
Training	Registered nurse with minimum one year IV administration experience UHB IV trained Knowledge and adherence to febrile neutropenia PGD
Continuing education	Maintenance or personal education as outlined by the NMC code of conduct legislation. Recognise own limitations and act accordingly.

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<p>Signature of individual accepting responsibility and accountability to perform this PGD</p>	
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