

# BUSINESS RULE: Administration of a formulation of a medication other than that ordered within an electronic medication management system

## SESLHDBR/082

Name	Administration of a formulation of a medication other than that			
	ordered within an electronic medication management system			
What it is	The eMEDs electronic medication management system requires that			
	a specific formulation be selected when ordering a medication.			
	Occasionally the formulation ordered by the prescriber may be			
	unsuitable for administration to the patient. This business rule			
	describes the principles for management of these circumstances.			
	For the purposes of this Business Rule <b>formulation</b> is defined as the			
	product or preparation in which the drug is presented, for example:			
	solution, suspension, tablet, capsule, wafer.			
Risk Rating	High Review Date December 2023			
What it is not	This business rule applies to the formulation component of the			
	medication order only. It does not apply to other aspects of the			
	medication order, i.e. drug, dose, route and frequency.			
Who it applies to	All staff involved in management of medications for inpatients in			
	SESLHD facilities.			
	Safe and accurate medication administration required the 5 Rights			
	("the 5 R's") of:			
	✓ The Right <b>Patient</b> , and			
	✓ The Right <b>Drug</b> , and			
	✓ The Right <b>Dose</b> , and			
	✓ The Right <b>Time</b> , and			
	✓ The Right <b>Route.</b>			
When it does not	This business rule does not apply to the following medications, for			
apply	which the prescribed formulation should always be administered:			
	- Phenytoin			
	- Lithium			
	- Clozapine			
	- Warfarin			
	- Thyroxine			
	- Posaconazole			
	- Digoxin			
	- Insulin			
	- Cytotoxic medications			
	- All Schedule 8 medications			
	Modified release and immediate release formulations must never be			
	interchanged.			

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#### What to do

Prescribers should make every effort to prescribe the most appropriate formulation for the patient. This may require consultation with the nurse/midwife caring for the patient or a pharmacist.

Where specific instructions apply to administration of the prescribed formulation (eg; disperse tablets in water) the prescriber should add these in the 'comments' field on prescribing. Pharmacists may also add these specific administration instructions to the order.

When administering the medication, the nurse/midwife should review the order and determine whether the prescribed formulation is suitable for the patient. Suitability will depend on factors such as:

- Availability of the prescribed formulation
- Availability of alternative formulations
- Patient's swallowing ability
- Patient's level of consciousness
- Presence and type of enteral feeding tube
- Patient preference

As these factors can change rapidly, an assessment of the suitability of the prescribed formulation should be made at each administration.

Refer to references such as "Don't Rush to Crush" handbook to determine whether the medication may safely be crushed.

If the prescribed formulation is suitable, administration should proceed in accordance with PD2013\_043 *Medication Handling in NSW Public Hospitals*.

If the formulation is not suitable, two different scenarios may apply and should be managed as follows:

1. The prescribed formulation is likely to be unsuitable for all subsequent administrations.

Contact the prescriber to change the order to the most suitable formulation. If this cannot be done immediately, one dose of an alternative formulation of the medication may be administered against the order. A comment must be entered into the administration window detailing the formulation used.

## OR,

2. The prescribed formulation is unsuitable for this administration, but likely to be suitable for subsequent administrations.

At the discretion of the nurse/midwife, one dose of an alternative formulation of the medication may be administered against the order. A comment must be entered into the administration window detailing the formulation used.

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	If in doubt as to whether two formulations of the same medication are			
	interchangeable refer to the prescriber or pharmacist for advice.			
	Note: Under no circumstances should two separate orders be entered for			
	different formulations via the same route.			
When to use it	This process applies to all inpatient medication orders where different			
	formulations of the same medication are available.			
	Example ONE			
	eMEDs MAR medication order			
	Paracetamol (paracetamol 500mg oral tablet) 1,000mg, oral, tablet*,			
	QID, PRN for pain, Max dose/24 hrs: 4g			
	Modifiable field: tablet			
	Formulation which could be administered			
	Oral suspension* or oral liquid*			
	Non-modifiable fields: drug, dose, route, frequency			
	Note: modified release and immediate release formulations must never be interchanged.			
	be interchanged.			
	Example TWO			
	eMEDs MAR medication order			
	Amoxicillin 1,000mg, oral, tablet*, BD			
	Modifiable field: tablet			
	Formulation which could be administered			
	Capsule* or oral liquid* or powder for reconstitution*  Non-modifiable fields: drug, dose, route, frequency			
	tron-modifiable fields.   drug, dose, foute, frequency			
Why the rule is	This business rule ensures that nursing staff have appropriate flexibility in			
necessary	the choice of formulation when administering medications, whilst maintaining accountability for medication administration practices.			
Who is	Medical Officers should:			
responsible	<ul> <li>Consider patient circumstances to ensure an appropriate formulation is selected when ordering medications in an electronic medication</li> </ul>			
	management system.			
	Pharmacists should:			
	Ensure appropriate formulation is prescribed and available for			
	administration within a timely manner			
	Provide advice on choice of medication formulation as required.			
	Nursing staff should:			
	<ul> <li>Consider patient circumstances to determine whether the prescribed formulation is suitable for the patient</li> </ul>			
	<ul> <li>Be aware of the need to comply with the prescriber's order and follow the principles within this business rule if the formulation in the</li> </ul>			
	medication order is deemed unsuitable.			
	Consider that some formulations of the same medicine may not be			
	interchangeable.			

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References	NSW Health PD2013_043 Medication Handling in NSW Public Health		
	<u>Facilities</u>		
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# **Revision and Approval History**

Date	Revision Number	Author and Approval
1 August 2017	DRAFT v0.1	Katie Kerr
17 August 2017	DRAFT v0.2	Feedback from eMEDs team, Paediatric NUM TSH, Pharmacists
16 October 2017	DRAFT v0.3	Feedback from mental health
October 2017	Draft	Formatting reviewed by Executive Services
November 2017	Draft	SESLHD Drug and Quality Use of Medicines Committee endorsed for progression to SESLHD Clinical and Quality
		Council.
December 2017	0	Endorsed for publishing by SESLHD Clinical and Quality Council
		December meeting.
July 2021	1.0	Feedback from W&C Clinical Stream, Paediatric NUM TSH,
		Paediatric CNC SGH, Pharmacy
September 2021	1.0	Processed by SESLHD Policy prior to submission to QUMC for
		endorsement.
December 2021	1.0	Endorsed by SESLHD Drug and Quality Use of Medicines
		Committee.

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