



Government of **Western Australia**  
Department of **Health**

# National Inpatient Medication Chart (NIMC) Audit 2014

## Train the Trainer Workshop

# National Inpatient Medication Chart (NIMC) Audit

- Nationally coordinated NIMC audit that occurs every 2 years, starting from 1 Aug – 30 Sep 2012
- Using and auditing the NIMC are activities that can be used to demonstrate compliance with the NSQHS Standards for accreditation.

# NIMC Audit

- Auditing the NIMC:
  - Provides baseline data for NIMC use and future quality improvement activities
  - Improves the safety of medication charting in hospitals
  - Evaluates the effect of NIMC safety features in hospitals.

# NIMC Audit

- Objectives:
  - Evaluate the effect of the NIMC safety features
  - Evaluate the implementation process on the safety and quality of
    - prescribing
    - medication documentation
  - Identify further areas for improvement in medication management.

# NIMC Audit

- Frequency of auditing will depend on:
  - staff changes,
  - risk of medication errors
  - other local factors.
- If significant non-compliance is identified: audit occur more frequently within a quality improvement cycle (PDSA), until compliance improves.

# NIMC Audit Tools

- Paper based form, available at:

- [www.safetyandquality.gov.au/wp-content/uploads/2012/02/NIMC-Audit-Form.pdf](http://www.safetyandquality.gov.au/wp-content/uploads/2012/02/NIMC-Audit-Form.pdf)

The image shows a paper-based audit form titled 'National Inpatient Medication Chart Audit Form'. It includes a header with the Australian Commission on Safety and Quality in Health Care logo. The form is divided into several sections: 1. Patient Identification & Weight, 2. Adverse Drug Reaction (ADR) Details, 3. Medication History, 4. Variable Dose, 5. Venous Thromboembolism (VTE) Prophylaxis, 6. Warfarin, 7. Sustained Release, 8. Intermittent Medications, 9. Duplicate Orders, and 10. Pharmaceutical Review. Each section contains a list of audit criteria with checkboxes for 'Y' (Yes), 'N' (No), or 'NA' (Not Applicable). The form also includes fields for patient details like State, Healthcare Facility Code, Hospital Name, UR No., Gender, Ward, Bed No., Audit Date, and Date of Birth. Reviewer names and dates are also provided.

The image shows an electronic version of the audit form titled 'National Inpatient Medication Chart Audit Tool'. It features a legend for drug orders and a large table for recording data. The legend defines symbols for drug order types (e.g., Regular, PRN, Stat), routes (e.g., Oral, IV, IM), and other details like frequency and administration instructions. The table has columns for Order No., Drug Name, Drug Code, Route, Dose, Frequency, and various checkboxes for audit criteria. The table is pre-filled with 'Y', 'N', or 'NA' for each criterion. The form also includes a footer with the Australian Commission on Safety and Quality in Health Care logo and page information.

- Electronic versions (*NIMC Audit Spreadsheet*) and web based (*NIMC Audit System*) also available on [www.safetyandquality.gov.au](http://www.safetyandquality.gov.au)

# NIMC Audit Reports

Four types of audit reports can be generated:

- **Audit Summary**
- **Audit Statistics**
- **Patient Audit Report**
- **Medication Report**

# Preparing for the NIMC Audit

- Refer to Commission's:
  - *Guide to Auditing the NIMC 2014*
  - *NIMC User Guide*
- Read local medication related procedures and guidelines, e.g. approved list of tradenames, list of acceptable abbreviations
- Decide on the number of charts to audit
- Decide how data will be entered

# Preparing for the NIMC Audit

- Some of the audit criteria require subjective judgement and interpretation:
  - determining unclear orders
  - assessing completeness of documentation.
- It is important that auditors meet up prior to the audit to discuss the parameters for these areas, as they are defined in the *Guide to Auditing the NIMC*.
- Conducting a pilot may be beneficial
  - Small sample of medication charts from different wards

# Number and type of charts to audit

## Initial audit

- Ideally all available active NIMC should be reviewed – allows identification of errors that occur infrequently and in different patient types.
- As many medication charts as possible should be reviewed to evaluate any significant changes to medication safety.
- To enable a large number of patient charts to be reviewed, data collection may take place over a number of weeks, e.g. 5 charts for each ward per week for one month.

# Number and types of chart to audit

- Suggested initial audit sample size:

Hospital bed numbers	Sample size
150 or more	20% of current inpatients
30-149	30 current inpatients
Less than 30	All current inpatients

## Subsequent audits

- Where possible, these should be identical to the initial audit to ensure a comparison of similar wards, patients and numbers.

## Partial audits

- Hospitals may wish to target specific areas of concern where performance is suboptimal.

# Audit teams

- Should be conducted by 2 people together:
  - To minimise observer bias
  - A registered nurse – interpretation of the prescription and administration information.
  - A pharmacist (or medical officer, or another nurse)
- The teams should be allocated and maintained for the audit period, to ensure consistency in the data collected.

# Familiarisation with medication related policies and guidelines

- Local medication related procedures and guidelines – e.g. hospital's list of approved trade names for prescribing
- If no local procedures or policies exist, auditors will need to agree on some audit parameters – e.g. acceptable abbreviations and trade names.
  - Establish consistency between auditors for current and subsequent audits.

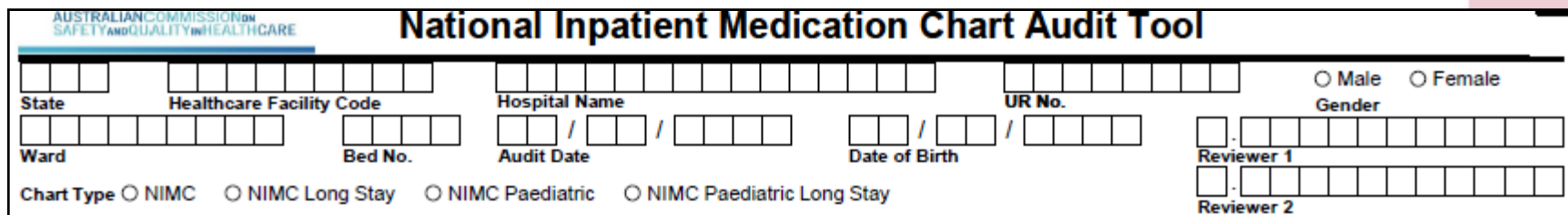
# Piloting data collection

- Teams should consider testing their data collection methods, using the NIMC Audit Form.
- NIMCs selected should include a variety of medicines which utilise different safety features of the chart.
- Pilot testing and correlating data collection decisions will help to achieve consistency between audit team members.
- Reflective discussion after pilot testing may also be helpful in situations where there is disparity between auditors.



# Completing the Audit Tool

- Complete one audit tool per patient.
- Complete all fields on top of page 1.



The image shows the top section of the 'National Inpatient Medication Chart Audit Tool' form. The header includes the Australian Commission on Safety and Quality in Healthcare logo and the title 'National Inpatient Medication Chart Audit Tool'. The form contains several input fields: State (3 boxes), Healthcare Facility Code (8 boxes), Hospital Name (24 boxes), UR No. (8 boxes), Gender (radio buttons for Male and Female), Ward (8 boxes), Bed No. (4 boxes), Audit Date (8 boxes), Date of Birth (8 boxes), Reviewer 1 (16 boxes), and Reviewer 2 (16 boxes). Below the input fields, there are radio buttons for Chart Type: NIMC, NIMC Long Stay, NIMC Paediatric, and NIMC Paediatric Long Stay.

- Ensure all appropriate fields are answered with a “Yes”, “No”, “Unknown” or a number. “NA” should only be used if appropriate.

# Patient Confidentiality

- To ensure confidentiality, the UMRN and DOB will not be transmitted beyond the hospital.
- The electronic NIMC spreadsheet and web-based NIMC audit system will automatically assign individual ID, which de-identifies the patient.

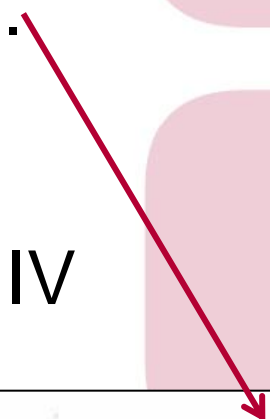
# Patient Identification & Weight

## 1.1 Total current Medication Charts

Count and record the total number of current medication charts in use (on the day of the audit).

Do not rely on the number indicated here. Only count the NIMCs in use.

(i.e. do not include additional charts such as anticoagulation chart, insulin chart, or IV fluids chart, etc)



MEDICATION Chart No. ..... 1 ..... of ..... 2 .....

ADDITIONAL CHARTS

<input type="checkbox"/> IV Fluids	<input checked="" type="checkbox"/> BGL/Insulin	<input type="checkbox"/> Acute Pain	<input type="checkbox"/> Variable Dose
<input type="checkbox"/> Palliative Care	<input type="checkbox"/> Chemotherapy	<input checked="" type="checkbox"/> Anticoagulation	<input type="checkbox"/> Other

# Patient Identification & Weight

## 1.2 Patient ID complete on all pages

Look at pages 3 and 4 of all medication charts.

**YES if at least 3 are present on (visible and correct):**

- Medical record number (UMRN)
- Patient name (family and given names)
- Date of birth
- Gender
- Patient address

If patient ID label is used, the first prescriber must print the patient's name

**AFFIX PATIENT IDENTIFICATION LABEL HERE AND OVER**

UR No: [REDACTED]

Family name: [REDACTED]

Given names: [REDACTED]

Address: [REDACTED]

DOB: [REDACTED]

Sex  M  F

VALID IN UNLESS OTHERS PRESENT

1st Prescriber to print patient name and check label correct: [REDACTED]

Patient weight (kg): .....

Height (cm): .....

**AFFIX PATIENT IDENTIFICATION LABEL HERE**

UR No: [REDACTED]

Family name: [REDACTED]

Given names: [REDACTED]

Address: [REDACTED]

DOB: [REDACTED]

Sex  M  F

1st Prescriber to print patient name and check label correct: [REDACTED]

# Patient Identification & Weight

## 1.3 Weight documented on a medication chart

YES if:

- **(Adult)** Weight documented on at least one medication chart, OR on general observations chart.
- **(Paediatric)** Weight documented on ALL pages of active medication charts.

AFFIX PATIENT IDENTIFICATION LABEL HERE AND OVERLEAF	
UR No:	
Family name:	NOT A VALID
Given names:	PRESCRIPTION UNLESS
Address:	IDENTIFIERS PRESENT
DOB:	Sex <input type="checkbox"/> M <input type="checkbox"/> F
1st Prescriber to print patient name and check label correct:	
	Patient weight (kg): .....
	Height (cm): .....

AFFIX PATIENT IDENTIFICATION LABEL HERE AND OVER LEAF	
UR No.:	
Family Name:	NOT A VALID
Given Names:	PRESCRIPTION UNLESS
	IDENTIFIERS PRESENT
D.O.B.:	Sex: <input type="checkbox"/> M <input type="checkbox"/> F
1st Prescriber to print patient name & check label correct:	
Age:	
Weight (kg):	Date:
Height (cm):	Date:
B.S.A. (m <sup>2</sup> ):	Date:

Attach ADR Sticker	
See front page for details	
AS REQUIRED "PRN" MEDICINES	
WARD/UNIT: .....	Weight (kg)
	Date

# Adverse Drug Reaction (ADR) Details

## 2.1 ADR documentation complete on all charts (incl. NKDA / Unknown)


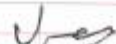
**YES if (on ALL medication charts):**

- Nil known, unknown or ADR documented,
- Drug name and reaction documented
  - If reaction is unknown, a record of “patient unsure of reaction” (or similar) is required.
  - If no reaction is documented, it is not considered to be complete.
- Clinician signature

Attach ADR Sticker

**ALLERGIES AND ADVERSE DRUG REACTIONS (ADR)**  
 Nil known  Unknown (tick appropriate box or complete details below)

Drug (or other)	Reaction/Type/Date	Initials

Sign  Print  Date

# ADR Details

## 2.2 Patient has previous ADR

### If ADR documentation is not completed:

Auditor(s) need to verbally confirm with patient if they have ADR(s), and what they are.

NB: If patient is unable to answer, (e.g. not available, intubated, non-English speaking etc) – check with family/carer.

Select **YES** or **NO** accordingly.

Select **Unknown (Unk)** if unable to verify.

# ADR Details

## 2.2 Patient has previous ADR (continued)

**If ADR documented has been completed:**

Select **YES** or **NO** accordingly.

# ADR Details

## 2.3 Similar class of medicine prescribed

**YES if** : patient has a medication (or same class of medication) prescribed

Document in *Comments* section :

- Name of medicine recorded in allergy/ADR section
- Type of reaction recorded
- Name of the re-prescribed medicine
- If any doses of the re-prescribed medicine has been administered. If so, record number of doses given.

# ADR Details

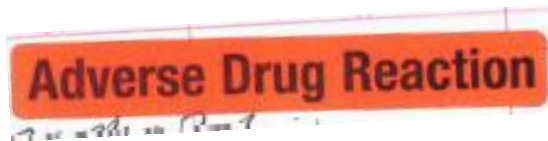
## 2.4 If previous ADR, do all pages have ADR alert stickers in place?

Look at page 3 and 4 of all medication charts.

**YES if** : ALL medication charts have ADR alert stickers in place.

(even if no active order on the page)

**NA if** : site does not use ADR alert stickers





# Medication History

## 3.2 If “No”, is a *Medication History* cross-referenced on Medication Chart?

**YES if** : Medication history is cross-referenced on at least one chart (e.g. “See MMP” or “See previous chart”)

Medicines taken prior to presentation to hospital (prescribed, over the counter, complementary) Own medication brought in? <input type="checkbox"/> Y <input type="checkbox"/> N Administration aid (specify): .....					
Medication	Dose and frequency	Duration	Medication	Dose and frequency	Duration
NOT FOR ADMINISTRATION					
See MMP 2-09/07/14					
GP:			Community pharmacy:		
Documented by:	Sign:	Date:	Medicines usually administered by:		



# Medication History

## 3.4 Allergies/ADR box completed on *MMP form*

**YES if:** Allergies/ADR box contains an allergy/ADR,

OR “Nil Known” or “Unknown” box has been ticked on WA MMP

ALLERGIES & ADVERSE DRUG REACTIONS (tick appropriate box)  Nil Known  Unknown  Reaction – refer to NIMC

# Medication History

## **3.5 No. of medicines taken prior to presentation to hospital recorded on the *MMP form***

Indicate no. of medicines taken prior to admission. Include PRN and OTC medications if the patient is currently taking them.

If nil, enter “0”



# Medication History

## 3.8 More than one source indicated on MMP form

**YES if :** More than one source has been ticked in the *Sources* section  
 OR if “Second Source deemed unnecessary”

Pre-Admission Medication History Has Been Confirmed with Two Sources ( <input type="checkbox"/> Nil Regular Medications <input type="checkbox"/> Second Source deemed unnecessary Sign _____ )				
<b>Source</b>	<b>Sign</b>	<input type="checkbox"/> Patient / Relative / Carer		<input type="checkbox"/> Own Medications
<input type="checkbox"/> GP Ph:                      Fax:		<input type="checkbox"/> Previous admission: _____ / _____ / _____ Hospital:		<input type="checkbox"/> Patient List
<input type="checkbox"/> Community Pharmacy Ph:                      Fax:		Dose Administration Aid (D.A.A.) <input type="checkbox"/> Blister Pack <input type="checkbox"/> Sachet <input type="checkbox"/> Dosette		<input type="checkbox"/> Other:
<input type="checkbox"/> N/Home                      Ph: <input type="checkbox"/> Hostel		<input type="checkbox"/> Other: _____ Date Packed: _____ / _____ / _____		

# Variable Dose

## 4.1 No. of Variable Dose medications

Look for medicines prescribed in both *Variable Dose* and *Regular* sections of the medication chart.

- Include ceased orders.
- Exclude warfarin and PRN medications.

If variable dose medication prescribed in *Regular* section, write name and frequency of the medicine in *Comments* section.

# Venous Thromboembolism Prophylaxis

## 5.1 VTE risk assessment documented on any medication chart

**YES if** (ALL present):

- VTE Risk considered box ticked\*
- Signature present
- Date of risk assessment documented

Venous Thromboembolism (VTE) risk assessment		Risk Assessment completed by (name):	<input type="checkbox"/>
<input type="checkbox"/> VTE risk considered (refer guidelines)	<input type="checkbox"/> Bleeding risk considered		
Pharmacological Prophylaxis: <input type="checkbox"/> Indicated* <input type="checkbox"/> Not Indicated <input type="checkbox"/> Contraindicated <small>*Consider surgical and anesthetic implications prior to prescribing on Anticoagulation Chart</small>			<b>Warfarin/Anticoagulant in use</b>
Mechanical Prophylaxis: <input type="checkbox"/> GCS <input type="checkbox"/> IPC <input type="checkbox"/> VFP <input type="checkbox"/> Not Indicated <input type="checkbox"/> Contraindicated		Date: <input type="text"/>	Time: <input type="text"/>
<small>Key: GCS – Graduated Compression Stockings; IPC – Intermittent Pneumatic Compression; VFP – Venous Foot Pumps</small>			
			<small>Refer to Anticoagulation Chart for administration details</small>

**NA if:** Auditing long stay, paediatric, paediatric long stay NIMC or if NIMC has no VTE Risk Assessment tool

# VTE Prophylaxis

## 5.2 VTE prophylaxis prescribed

Refer to NIMC and WA Anticoagulation chart.\*

**YES if:** Pharmacological VTE prophylaxis prescribed.

## 5.3 VTE prophylaxis prescribed in VTE section

Refer to WA Anticoagulation chart only.\*

**YES if:** Pharmacological prophylaxis prescribed in prophylaxis section.

REGULAR DOSE ORDERS - PROPHYLACTIC DOSES (Subcutaneous and fixed dose oral anticoagulants)									
YEAR 20	DAY AND MONTH →								
14	3/7	Medication (Print generic name)	Enoxaparin	0800	4	4	4	4	4
CRCl mL/min	Route	Dose	Frequency	NOIW enter times →					
>30	Subcut	40mg	qday	None					
Indication: <u>VTE PROPHYLAXIS</u>									
Prescriber (sig)	Print name	Contact No.	Creatinine	Platelets					
	ANWAR	217	174						

Continue on discharge YES / NO  
Dispense YES / NO  
Duration: \_\_\_\_\_ days

# Warfarin

**WA uses the WA Anticoagulation Medication Chart (WA AMC) for prescribing all anticoagulants. This section is not relevant to WA.**

To keep WA data consistent:

**Question 6.1** Select NA

**Question 6.2** Enter “0”

Doing this will allow you to skip to section 7.

# Sustained Release

## 7.1 No. of *Sustained Release* medications ordered (Regular medications section)

Indicate no. of SR medications prescribed in regular medications section (include ceased orders)

## 7.2 No. of *Sustained Release* medications with SR box ticked



Indicate no. of SR medications that have the SR box ticked (either doctor or pharmacist)

Date	Medication (print generic name)	<input checked="" type="checkbox"/> Tick if Slow Release
12/6	Metformin XR	
Route	Dose	Frequency and NOW-enter times
PO	500mg	nocte
Indication	Pharmacy	Specialist in-charge DO
Prescriber's signature	Print your name	Contact
	Uma	

# Intermittent Medications

## **8.1 No. of *Intermittent* medications ordered (e.g. weekly, fortnightly, twice weekly)**

Indicate no. of medicines prescribed intermittently (include ceased and regular medications orders only).

## **8.2 No. of *Intermittent* medications ordered and “boxed”**

Indicate no. of intermittent medications where all relevant boxes have been crossed out to flag dose(s) not to be administered.

# Duplicated Orders

## 9.1 Number of Duplicated Orders

Indicate the no. of current *Once Only, Stat, Telephone, Regular* and *PRN* medication orders duplicated for the same medication or class of medication, which would result in the patient receiving unintentional additional doses of the medication.

If so, document names of the medicines in the *Comments* section.

Note : In some instances, this may be acceptable, e.g. salbutamol regular and PRN doses. Ensure regular dose is cross referenced to PRN dose, and max dose specified in PRN order.

# Pharmaceutical Review

## 10.1 *Pharmaceutical Review* occurred (i.e. Initial/s at bottom of chart)

**YES if** : there is at least ONE initial in the *Pharmaceutical Review* section on the medication chart (regardless of length of stay)



# Prescribing and Administration

## National Inpatient Medication Chart Audit Tool

### 11. Prescribing and Administration

<b>Legend</b>		<b>Drug Name:</b>		<b>Route / Dose:</b>	<b>Frequency:</b>	<b>Others:</b>	<b>Definitions: Error Prone Abbreviations</b>	UR No. <input type="text"/>
<b>Drug Order:</b>		U = Unclear	C = Clear & Correct	C = Clear	C = Clear	Y = Yes	mcg, ug, ug = microgram	
R = Regular		T = Trade	M = Missing	M = Missing	M = Missing	N = No	U or u = unit	SC, S/C = subcutaneous
P = PRN		C = Clear	I = Incorrect	I = Incorrect	I = Incorrect		qd or QD = every day	SL, S/L = sublingual
S = Stat/Phone/Once Only							o.d. or OD = once daily	o (degree symbol) = hourly frequency
V = Variable Dose								No leading zero before a decimal point (eg .5mg) = 0.5mg
W = Warfarin								Trailing zero after decimal point (eg 1.0mg) = 1mg

Order No.	Drug Order	Drug Name	Route	Dose	Frequency	Dose Calc'n Documented	Dose Calc'n Documented Correctly	Error Prone Abbrev's Used	Indication Documented	Pharm. Annot.	Pres. Signed	Pres. Clear	Freq. Matches Admin Time	Drug Ceased	Ceased Correctly	Doses Required	Doses Admin	If PRN, Max Dose doc.
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	Y N NA	Y N NA	Y N	Y N NA	Y N	Y N	Y N	Y N NA	Y N	Y N NA	<input type="text"/>	<input type="text"/>	Y N NA
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	Y N NA	Y N NA	Y N	Y N NA	Y N	Y N	Y N	Y N NA	Y N	Y N NA	<input type="text"/>	<input type="text"/>	Y N NA
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<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	Y N NA	Y N NA	Y N	Y N NA	Y N	Y N	Y N	Y N NA	Y N	Y N NA	<input type="text"/>	<input type="text"/>	Y N NA
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# Prescribing and Administration

This information is required to be documented separately for each medication order, i.e. *Once Only/Stat, Variable Dose, Regular* and *PRN* – including ceased orders.

Each column must have a response documented.

Focus on actual drug order  
(i.e. Doctor's documentation for this section,  
except question 11.11 – pharmacist annotation)

# Prescribing and Administration

## 11.1 Allocate a number to each order

Only for paper audit tool.

Excel and web based system will generate a number for each order.

## 11.2 Drug Order (include ceased orders)

This refers to the section of the chart where the medication has been prescribed.

### Drug Order Legend

R	Regular	P	PRN
S	Stat/Once Only/Telephone	V	Variable
W	Warfarin ( <i>Do not use this code in WA as warfarin not prescribed on NIMC</i> )		

NB : If variable dose medication is prescribed in Regular section, select "R".

# Prescribing and Administration

## 11.3 Drug Name

Drug Name Legend		Explanation
U	Unclear	Drug name is illegible or may be interpreted as another product.
T	Trade Name	Drug is prescribed by UNACCEPTABLE trade name. e.g. <i>Timentin</i> should be prescribed as Ticarcillin/Clavulanic Acid to identify as penicillin (NB: This may differ from site to site)
C	Clear	Drug is prescribed clearly, and there is no potential for error identified. Drugs may be prescribed in ACCEPTED trade name. e.g. Trade names for insulins (to prevent error) e.g. <i>OxyCONTIN</i> vs <i>OxyNORM</i>

Sites should have a list of acceptable trade names - refer to medication safety group (MSG)

# Prescribing and Administration

## 11.4 Route

Route Legend		Explanation
C	Clear and Correct	Route of administration is clear, correct and no potential for error.
M	Missing	No route documented.
U	Unclear	<ul style="list-style-type: none"><li>• Where route may be mistaken e.g. “SC” and “SL”</li><li>• Where route is illegible</li><li>• Where multiple routes have been ordered (where different doses are required depending on route chosen)</li></ul>
I	Incorrect	Route documented is incorrect e.g. “po” for tiotropium

# Prescribing and Administration

## 11.5 Dose

This refers only to the documentation of the dose.

Auditors will not need to check the appropriateness of the dose.

Dose Legend		Explanation
C	Clear and correct	Dose is clear, correct and no potential for error.
M	Missing	No dose documented.
U	Unclear	Doses must be specified using metric and Arabic systems. <ul style="list-style-type: none"><li>• Avoid abbreviations (Refer to error-prone abbreviations).</li><li>• Avoid Roman numerals.</li><li>• Strength of medication must be specified where there are multiple dosage forms.</li></ul>
I	Incorrect	Dose documented is incorrect. e.g. 1mg prescribed instead of 1microgram (see next slide for paediatric dosing)

# Prescribing and Administration

## 11.5 Dose

### *Paediatric Dose*

The dose should be the SAFE, total dose.

Auditors are required to calculate the dose using the patient's weight or body surface area (BSA) according to the paediatric dosing reference endorsed by the site.

A calculator is recommended for this question.

# Prescribing and Administration

## 11.6 Frequency

This refers to the dosing frequency as annotated by the doctor.

Frequency Legend		Explanation
C	Clear	If medication frequency is clear, and there is no potential for error.
M	Missing	No frequency documented.
I	Incorrect	Frequency documented is incorrect.
U	Unclear	Frequency documented is illegible, or where an unacceptable abbreviation has been used. (See following slide for examples)
NA	Not applicable	If <i>Stat/Once Only</i> medication or <i>Variable dose</i> medication prescribed in <i>Variable Dose</i> section

# Prescribing and Administration

## 11.6 Frequency (continued)

Frequency Legend		Explanation
U	Unclear	Frequency documented is illegible, or where an unacceptable abbreviation has been used.
	<i>Regular orders</i>	UNACCEPTABLE: Frusemide 40mg qd (or od) - Should be written as daily, or mane - <b>Frusemide 40mg mane ✓</b>
	<i>PRN orders</i>	UNACCEPTABLE: Morphine 10mg PRN - Should include a time interval for PRN orders - <b>Morphine 10mg 4hourly PRN ✓</b>
	<i>PRN orders</i>	UNACCEPTABLE: Metoclopramide 10-20mg tds PRN - May result in administration of doses every 8 hours, however may be clinically acceptable to administer more frequently. - <b>Metoclopramide 10-20mg 4-6 hourly PRN ✓</b>

# Prescribing and Administration

## 11.7 Dose Calculation Documented

**YES if:** Basis for dose calculation is documented in dose calculation box (e.g. mg/kg/dose or microgram/m<sup>2</sup>/dose)


**NB:** If written in different form (e.g. mg/kg/day) - this is considered unacceptable and unsafe.

**NO if:** Not documented

**NA if:** Not auditing the paediatric NIMC (PNIMC)

**OR** where dose calculation is not required (e.g. topical)

Look here

Date	Medicine (Print Generic Name)	<input type="checkbox"/> Tick if Slow Release
Route	<input type="text" value="DOSE"/>	Frequency & now enter times 
Pharmacy/Additional Information		
Indication	<input type="text" value="Calculation of Dose (eg. mg/kg/DOSE)"/>	
Prescriber Signature	Print Name	Contact/Pager

# Prescribing and Administration

## 11.8 Dose Calculation Documented is Correct

**YES if:** Dose calculation documented is CORRECT based on the recommended dose in a current paediatric dose reference.

**NO if:** Dose calculation is incorrect.

**NA if:** Not auditing PNIMC

OR if dose calculation is not required for the medication (e.g. topical).

# Prescribing and Administration

## 11.9 Error Prone Abbreviations

**YES if:** Error prone abbreviation is used.

Error prone abbreviation	Intended meaning	Correct Abbreviation
ug, mcg or µg	Microgram	Microgram or microg
U or u	Unit	Unit(s)
OD, od or d	Once daily	Daily, or specific time (e.g. mane, nocte)
QD or qd	Every day	Daily, or specific time (e.g. mane, nocte)
Q4H, q4h	Every 4 hours	Every 4hours, 4 hourly, 4hrly
SC or S/C	Subcutaneous	Subcut or subcutaneous
SL or S/L	Sublingual	Subling or sublingual
.5mg	0.5mg	0.5mg or 500microgram or 500microg
5.0mg	5mg	5mg
Drug name abbreviations	e.g. AZT = zidovudine	Do not use abbreviations for medicine names.

# Prescribing and Administration

## 11.9 Error prone abbreviations (continued)

Refer to Commission's

### Recommendations for Terminology, Abbreviations and Symbols used in the Prescribing and Administration of Medicines

AUSTRALIAN COMMISSION ON SAFETY AND QUALITY IN HEALTHCARE

Recommendations for Terminology, Abbreviations and Symbols used in the Prescribing and Administration of Medicines

#### Introduction

One of the major causes of medication errors is the ongoing use of potentially dangerous abbreviations and dose expressions. This is a critical patient safety issue. A study to identify and quantify prescribing errors in a large US urban teaching hospital found that 20% of prescriptions contained a dangerous abbreviation. An abbreviation used by a prescriber may mean something quite different to the person interpreting the prescription. Abbreviations may not only be misunderstood but can also be combined with other words or numerals to avoid as something altogether unintended.

training in terms used for the administration of medicines. In addition, patients and their carers have the right to understand what is being prescribed and administered to them. Prescriber an outmoded lang acceptable.

Prescriptions should not contain ANY abbreviations other than those that are in universal and common use, such as the terms 'pm' (meaning 'when required'). All drug names, protocols

TABLE 3: Error-prone abbreviations, symbols and dose designations to be avoided

(Adapted from the Institute of Safe Medication Practices (ISMP) list of the same name, with permission from ISMP)

Error prone Abbreviation	Intended Meaning	Why?	What should be used
mg, mcg or ug	microgram	Mistaken as 'mg'	micro, microgram
tid or tid	twice daily	Mistaken as 'td' (three times daily)	bid
BT or bid	bedtime	Mistaken as 'SID' (twice daily)	bedtime
cc	cubic centimetres	Mistaken as '1/2' (units)	mL
DISC	discharge or discontinue	Potential discontinuation of medications if discharge intended	'discharge' or 'discontinue' whichever is intended
e or E	ear or eye	Mistaken for 'ear' when 'eye' intended or for 'eye' when 'ear' intended	'eye' or 'ear' and specify whether 'left', 'right' or 'both'
gt or gtt	drops	Latin abbreviation meaning 'drops', not universally understood	'drop' or 'eye drop' whichever is intended
HS	half-strength	Mistaken as bedtime	'half strength' or 'bedtime' whichever is intended
hs	at bedtime, hours of sleep	Mistaken as half strength	
IJ	injection	Mistaken as 'IV' or 'intrajugular'	IJ, injection
IN	intranasal	Mistaken as '100' 'IV'	intranasal
IT	intrathecal	Mistaken as intravenous	Intrathecal
IU	International units	Mistaken as 'IV' (intravenous) or 'IU' (lin)	International units
IM	intramuscular injection	Mistaken as 'IV'	IM inj or IV injection
M	morning	Mistaken for 'IV' (night)	morning
N	night	Mistaken for 'IM' (morning)	night
Oc or Ocu	eye ointment	Mistaken for eye drops	eye ointment
ocul	instillate	Latin abbreviation, not universally understood	instillate
o.d. or OD	once daily	Mistaken as 'right eye' (OD=oculus dexter), leading to oral liquid medications administered in the eye. Can also be mistaken for QD (twice daily)	'daily', preferably specifying the time of the day, eg 'morning', 'mid day', 'at night'
OJ	orange juice	Mistaken as 'OD' or 'OS' (right or left eye); drugs meant to be diluted in orange juice may be given in the eye.	orange juice
OW	once a week	Not universally understood	once a week
po	per fortnight	Not universally understood	every two weeks, per fortnight
qd or QD	every day	Mistaken as 'Qd', especially if the period after the 'q' or the tail of the 'q' is misunderstood as an 'r'	daily
ps	powder	Latin abbreviation, not universally understood	powder
Qhs	nightly at bedtime	Mistaken as 'qH' or every hour	'night', 'daily at bedtime'
qh	every hour	Not universally understood	'hourly', 'every hour'
qd or QOD	every other day	Mistaken as 'qd' (daily) or 'q2d' (four times daily)	'every second day', 'on alternate days'
QPM etc	every evening at 6 pm	Mistaken as every six hours	'6pm daily', 'every night at 6pm', 'every day at 6pm'

- Hospitals may wish to develop more extensive list of error prone abbreviations

# Prescribing and Abbreviations

## 11.10 Indication Documented

**YES if:** Indication is documented

**NO if:** Indication is not documented

**NA if:** *Stat/Once Only* medication

Date	Medication (print generic name)		Tick if Slow Release
Route	Dose	Frequency and NOW enter times	
Indication	Pharmacy		
Prescriber's signature	Print your name	Contact	

What is this drug being used for?

# Prescribing and Administration

## 11.11 Pharmacy Annotation

**YES if:** A Pharmacist has added or clarified any information on the medication order (usually indicated by purple pen). Also includes supply information.

Date	Medication (print generic name)	<input type="checkbox"/>	Tick if Slow Release
Route	Dose	Frequency and NOW enter times	→
Indication	Pharmacy		
Prescriber's signature	Print your name	Contact	

A pharmacist's annotation may appear on other parts of the medication order (i.e. not reserved to just the *Pharmacy* section of the medication order).

**NB:** Pharmacists initials alone are not considered “annotation”. Some medication orders (if clear) do not require further pharmacist annotation.

# Prescribing and Administration

## 11.12 Prescriber Signature

**YES if:** Medication order has been signed by the prescriber

**NO if:** Medication order has not been signed by the prescriber

Date	Medication (print generic name)	<input type="checkbox"/>
Route	Dose	Frequency and NOW enter times <input type="checkbox"/>
Indication	Pharmacy	
Prescriber's signature	Print your name	Contact

Is the order signed?

# Prescribing and Administration

## 11.12 Prescriber Signature (continued)

Note 1: A doctor's signature is required within 24 hours of a *Telephone Order*.

(Answer "Y" if ordered <24hours prior to audit)

TELEPHONE ORDERS (to be signed within 24 hours of order)													
Date/Time	Medication (print generic name)	Route	Dose	Frequency	Nurse/Midwife initials 1st/2nd	Dr name	Dr sign	Date	RECORD OF ADMINISTRATION				
									Time/ Given by	Time/ Given by	Time/ Given by	Time/ Given by	

Note 2: A doctor's signature is required for the original order (not the daily order)

VARIABLE DOSE MEDICATION			Drug level						
Date	Medication (print generic name)		Time level taken						
Route	Frequency		<b>Dose</b>						
Prescriber to enter dose time and individual dose			Prescriber						
Indication	Pharmacy		Time to be given:						
Prescriber's signature	Print your name	Contact	Time given						

For the purpose of this audit, we will not be considering this section

# Prescribing and Administration

## 11.13 Prescriber Name Clear

Date	Medication (print generic name)		Tick if Slow Release
Route	Dose	Frequency and NOW enter times	
Indication	Pharmacy		
Prescriber's signature	Print your name	Contact	

Is prescriber's name legible?

**YES if:** Prescriber's name is clear.

**NO if:** Prescriber's name is not clear.

Note: Prescribers should print their surname at least once on the medication chart to enable other clinicians to identify their signature.

# Prescribing and Administration

## 11.14 Frequency Correlates with Administration Time

Date	Medication (print generic name)			Check if New Case
Route	Dose	Frequency and NOW		
Indication		Pharmacy		
Prescriber's signature	Print your name	Contact		

Does this match?

**YES if:** Administration time(s) correlates to frequency prescribed

**NO if:** Administrations time(s) does not correlate to frequency prescribed

e.g. Metoprolol 50mg TDS ordered, but administration times entered as BD

**NA if:** *Stat/Once Only* and PRN medications

# Prescribing and Administration

## 11.14 Frequency Correlates with Administration time

Variable dose section:

<b>VARIABLE DOSE MEDICATION</b>			Drug level																	
Date	Medication (print generic name)		Time level taken																	
Route	Frequency		<b>Dose</b>																	
	Prescriber to enter dose time and individual dose		Prescriber																	
Indication	Pharmacy		Time to be given:																	
			.....																	
Prescriber's signature	Print your name	Contact	Time given																	

Check that these match – especially important if more than once daily dosing

# Prescribing and Administration

## 11.15 Drug Ceased

**YES** if: Order ceased

**NO** if: Still an active order

## 11.16 Drug Ceased Correctly

Date 1/5/09	Medication (Print Generic Name) Digoxin	Tick if Slow Release							
Route PO	Dose 250microg	Frequency & NCW Enter Times in morning	0800	AB	AB	06			
Indication AF	Pharmacy I								
Prescriber Signature <i>[Signature]</i>	Print Your Name S JONES	Contact Pager 4721							

**YES** if: Order has been ceased correctly

**NO** if: Order has not been ceased correctly

**NA** if: Order has not been ceased

To be ceased correctly:

- Original order should not be obliterated.
- Clear line through order - prescription & administration section
- Reason for changing order (e.g. Ceased, increased, written in error)
- Date & initial the entry

# Prescribing and Administration

## 11.17 Doses Required

Record the number of doses that **should have been administered** from the commencement of the order on the chart to the time of the audit.

Include *Stat/Once Only* medication.

Enter “0” for PRN medications.

## 11.18 Doses Administered

Record the number of doses that **have been administered**, including doses that have a

“*reason for not administering*” code.

Enter “0” for PRN medications (even if doses have been given).

REASON FOR NURSE/MIDWIFE NOT ADMINISTERING	
Codes MUST be circled	
Absent	(A)
Fasting	(F)
Refused – notify Doctor	(R)
Vomiting	(V)
On leave	(L)
Not available – obtain supply or contact Doctor	(N)
Withheld – enter reason in clinical record	(W)
Self administering	(S)

# Prescribing and Administration

## 11.19 If PRN medication, Max dose documented

Date	Medication (Print Generic Name)		
Route	Dose	Hourly Frequency	PRN <span style="border: 1px solid red; border-radius: 50%; padding: 2px;">Max Dose/24 hrs</span>
Indication	Pharmacy		
Prescriber Signature	Print Your Name	Contact	

Is this completed?

**YES if:** PRN medication has the maximum dose documented

**NO if:** No maximum dose documented

**NA if:** *Stat/Once Only, Variable Dose, Regular medication*

# Comments Section

Document the following:

- 2.3: Drug & ADR, re-prescribed drug & no. of doses administered.
- 4.1: Name & frequency of variable dose medication prescribed in *Regular* section.
- 9.1: Duplicated drug orders (that are not cross-referenced)

# Comments Section

Sites may wish to collect information on particular area(s) of practice for improvement, for example:

- Orders changed but not rewritten
  - e.g. Frusemide 40mg mane increased to 40mg bd on the existing order
- Orders prescribed in roman numerals
  - e.g. Timolol eye drops 0.5% i drop nocte
  - e.g. Paracetamol SR ii tid
- Orders using error-prone abbreviations
  - e.g. “sc” used to denote subcutaneous

# Comments Section

## – Additional Information

Sites may also consider collecting data on:

- the number of orders that have not been annotated by the pharmacist, that should have been
- the percentage of NIMCs that do not have:
  - patient's name printed if using the patient ID label
  - ADR documentation on ALL NIMCs
  - patient weight on ALL paediatric NIMCs

A report can be generated from this content.

Commission will include this in national data.

# Recommendations

- It is recommended that sites collect data on the paper audit form, and then upload the information onto the database (NIMC Audit System).
- Maintain a log of frequently occurring errors/issues
  - These can justify results for each site
    - e.g. “i-ii drops” – non-standard abbreviation, minimal impact
    - e.g. “U” (for units) – non-standard abbreviation, major impact
  - Can be used for education/improvement at each site

# Recommendations

- Take de-identified photos of any major issues – present to site's DTC or MSG
  - May be once-off event
  - May be part of a pattern
- Obtain a list of acceptable tradenames (may need to liaise with DTC or MSG)
- Determine the paediatric dosing reference used, and have it ready when auditing.
- Have a calculator handy – especially when auditing paediatric NIMCs

# Acknowledgements

- Australian Commission on Safety and Quality in Health Care

Resources available at:

<http://117.53.164.80/AustralianCommission/>

- Armadale Kelmscott Memorial Hospital

# Contact

For more information:

Quality Improvement and Change Management –  
Medication Safety

- [http://www.safetyandquality.health.wa.gov.au/medication/nimc\\_2014\\_audit.cfm](http://www.safetyandquality.health.wa.gov.au/medication/nimc_2014_audit.cfm)
- Email: [waiseen.kee@health.wa.gov.au](mailto:waiseen.kee@health.wa.gov.au)
- Telephone: 08 9222 4170 (Thurs/Fri only)

Australian Commission on Safety and Quality in  
Health Care

- <http://www.safetyandquality.gov.au/our-work/medication-safety/medication-chart/nimc/national-inpatient-medication-chart-audit/>