

## **CLINICAL POLICIES, PROCEDURES & GUIDELINES**

Approved by Quality & Patient Care Committee 17 May 2018

## LABELLING OF INJECTABLE MEDICINES, FLUIDS AND LINES

#### 1. AIM

To ensure injectable medicines, fluids and lines are labelled to prevent errors relating to incorrect route, incorrect patient or incorrect dose.

#### 2. PATIENT

This local operating policy applies to all inpatient and outpatient services.

#### 3. STAFF

All health professionals who prepare and/or administer injectable medicines and fluids, including but not limited to:

- Medical Officers
- Nursing Staff
- Midwifery Staff

#### 4. EQUIPMENT

- NIMC
- NSW health fluid chart
- Anaesthetic chart
- Container label
- Line label

#### **5. CLINICAL PRACTICE**

All medicines and fluids removed from their original packaging must be identifiable.

All **containers** (e.g. bags/bottles, syringes, basins, jugs) <u>containing injectable medicines</u> must be labelled using the state standard pre-printed labels which are colour coded to indicate the route of administration.

All **lines and catheters** for administering injectable medicines must be labelled using the state standard pre-printed labels which are colour coded to indicate the route of administration.

All **burettes** containing injectable medicines must be labelled using the state standard pre-printed labels which are colour coded to indicate the route of administration.

There is to be no customisation or alteration to the standard NSW Health label set, however additional labelling may be used where required e.g. labelling of medications as cytotoxic; labelling of lines as heparin locked etc. Clarification should be sought from Pharmacy as to whether additional labelling is appropriate or required.

#### **Colour- Coding to Indicate Route of Administration**

Target tissue	Route of administration	Colour
Intra-arterial	Intra-arterial	Red
Intravenous	Intravenous	Blue
Neural tissue	Epidural / Intrathecal / Regional	Yellow
Subcutaneous tissue	Subcutaneous	Beige
Miscellaneous	Any other route not specified above	Pink



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## LABELLING OF INJECTABLE MEDICINES, FLUIDS AND LINES cont'd

#### 5.1. Labelling of Containers (Bags/Bottles, Syringes and other containers)

#### **General Principles**

All bags, bottles or syringes which contain a medicine must be labelled.

Only one medicine should be prepared and labelled at a time. Each injectable medicine drawn up in a bag/bottle or syringe should be prepared and labelled as a single operation by the same person. Labelling must be applied to the container immediately after the medicine is prepared.

Any medicine that is not labelled must be discarded and re-prepared.

#### Fluid Bags and Bottles

All bags/bottles must be labelled immediately when an injectable medicine is added.

Bag/bottle additive labels should be placed on the **front** of the bag in a way that ensures that the name of the base fluid, batch number and expiry date remain visible.

Bag/bottle labels are available in 2 sizes. The larger size fits the 500mL - 1 litre bags/bottles, while the smaller label fits the 50mL and 100mL bags/bottles.

Fluid bags and bottles for infusion where no additional injectable medicines are added prior to administration, e.g. intravenous fluids or other pre-mixed and labelled solutions **do not** require additional labelling.

All premix solutions for pain management where no additional drugs are added must have an appropriate route label (epidural, intravenous) attached indicating patient name, date and time the bag was hung including the two checking clinicians signatures. The colour coded additive label will be used with a line strike through the box for adding drugs and the word premix written.

## **Syringes**

All injectable medicines drawn up in a syringe should be labelled immediately using the state standard pre-printed labels which are colour coded to indicate the route of administration.

Labels should be placed parallel to the long axis of the syringe barrel with the top edge flush with (but not covering) the graduations (refer to Figure 1).

Figure 1: Syringe label



When application of the entire label to the syringe is not possible or practical, apply the label as a "flag" (refer to Figure 2) Smaller syringes used for neonatal infusions will be labelled by using a corner flag.



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Figure 2: Syringe label applied as flag



Syringes filled with normal saline to be used as a flush must be labelled with the pre-printed **0.9% sodium chloride** label (refer to Appendix 1).

If multiple syringes are required, they should be prepared, labelled and administered sequentially as independent operations. Medications to be administered via different routes must be prepared and administered separately.

Any unlabelled syringe containing a solution must be discarded.

Labelling is required if there is any chance that the syringe will leave the hands of the person preparing the medicine for use prior to administration. This includes placing the syringe in a kidney dish or other receptacle for transport to the patient's bedside.

#### Containers on a sterile field

All medicine containers including jugs, basins and syringes on a sterile field which contain medicine should be labelled. Labels used on the sterile field must be sterilised and a sterile marker must be used to complete the label details. Alternatively, pre-printed labels may be used on the sterile field (refer to Appendix 2).

The abbreviated container label may be used where patient identity has been established and other means of recording, labelling and preparation signatories are available (e.g. operating theatres).

## **Labelling of Lines**

All patient lines used for administration of injectable medicines or fluids must be labelled with the state standard pre-printed labels to indicate the route. The labels are colour-coded according to the target tissue.

Labels should be applied near the injection port on the patient side. Labels should be placed so that they do not interfere with the administration of medications through the injection port and do not present an infection risk.

All patient lines *not* intended for administration of medicines or fluids (such as invasive monitoring lines) must also be labelled to indicate the route.

Administration lines dedicated for continuous infusions of medicines must be labelled to identify the active ingredient in the line using the state standard pre-printed "**Medicine**" label. Pre-printed sticky-tape labels indicating the drug name may also be used, provided they are colour-coded according to drug class (refer to Appendix 2).



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#### **Labelling of Locked Catheters**

Catheters with a medicine insitu to "Lock" the catheter (e.g. Heparin – lock) must be labelled. The Label must include the active ingredient, date prepared, volume of lumen and final amount of medicine in units. The label must be placed on the catheter, close to the dressing but not impede the function of the dressing.

#### **Labelling of Burettes**

Burettes must be labelled immediately after an injectable medicine is added, using the state standard pre-printed label for burettes. This label is designed to be peeled off easily at the completion of the infusion.

Burette labels should be applied fully to the burette (not applied as a flag) and placed so that the text is upright and the burette graduations are not obscured.

#### 5.2. Exemptions:

Labelling is not required when the preparation and bolus administration of a single medicine is one uninterrupted process, the syringe does not leave the hands of the person who prepared it (other than for hand hygiene) and the same person administers the medicine immediately. The ampoule is left in the kidney dish. If there is any interruption in the process the syringe is discarded and it will need to be prepared.

Labelling according to this local operating policy is not required when:

- Bolus medications are prepared in the patient's home for immediate administration.
- The container (syringe or bag) is commercially prepared and pre-labelled.
- The medicine is prepared for use by Pharmacy and pre-labelled.
- Medicines are drawn up in syringes for use during anaesthesia. Injectable medicines for use during anaesthesia must comply with the Australia/New Zealand Standard which includes colour-coding according to drug class (refer to Appendix 2).

#### Not exempt

The medicine for immediate use in an emergency situation must be labelled as soon and humanly possible but the injection to the patient may occur first.

#### 6. DOCUMENTATION

Refer to Appendix 1 for label types and ordering details.

## 7. EDUCATIONAL NOTES

Nil

#### 8. RELATED POLICIES/ PROCEDURES/ CLINICAL PRACTICE LOP

Medications- Administration

## 9. RISK RATING

Low- review in 5 years

#### 10. NSQHSS

Standard 4- Medication Safety



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## LABELLING OF INJECTABLE MEDICINES, FLUIDS AND LINES cont'd

#### 11. REFERENCES

- NSW Health Policy Directive 2013\_043. Medication Handling in NSW Public Health Facilities.
- NSW Health Policy Directive 2012\_007. Labelling of Injectable Medicines, Fluids and Lines.
- User-applied labels for use on syringes containing drugs used during anaesthesia (AS/NZS 4375:1996).
   Sydney: Standards Australia International Pty Ltd, 1996.
- International Organization for Standardization. Anaesthetic and respiratory equipment Userapplied labels for syringes containing drugs used during anaesthesia – Colours, design and performance. 1st edition. ISO 26825:2008(E). Geneva: ISO, 2008

#### **REVISION & APPROVAL HISTORY**

Reviewed and endorsed Therapeutic & Drug Utilisation Committee 11/4/18 Approved Quality & Patient Car Committee 4/2/16 Reviewed and endorsed Therapeutic & Drug Utilisation Committee 8/12/15 Approved Quality & Patient Safety Committee 21/6/12

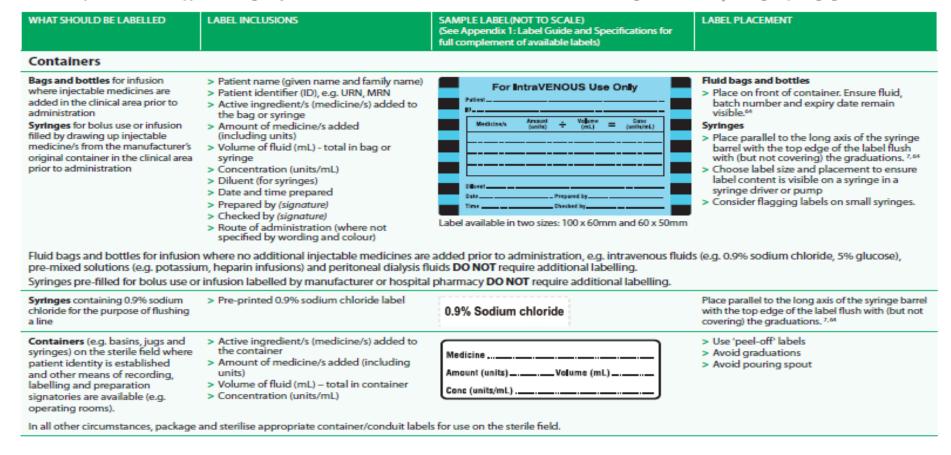
FOR REVIEW: MAY 2020

..../attachments

# Labelling Recommendations

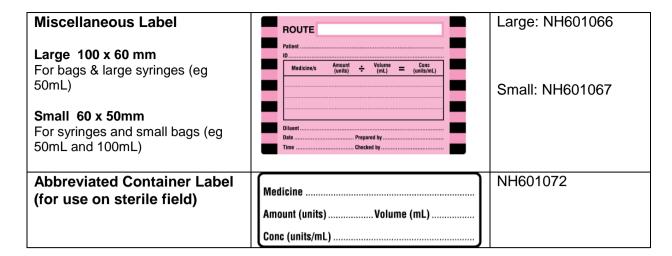
Table 1: Labelling requirements for containers (e.g. bags, syringes, basins and jugs) and conduits (e.g. lines, catheters and burettes).

Minimum requirements for user-applied labelling of injectable medicine containers and conduits where the contents can no longer be identified by the original packaging.

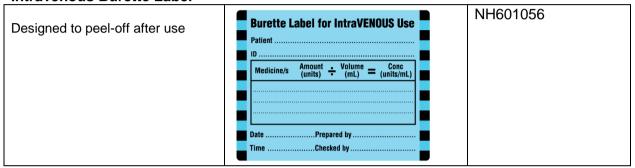


# Appendix 1: Labels for Injectable Medicines, Fluids and Lines

#### **Container Labels** (not actual size) Salmat ordering code For IntraVENOUS Use Only **Intravenous Label** Large: NH601053 Amount (units) + Volume (units/mL) Large 100 x 60 mm For bags & large syringes (eg 50mL) Small: NH601054 Small 60 x 50mm For syringes and small bags (eg 50mL and 100mL) **Epidural Label** Large: NH601057 For EPIDURAL Use Only Large 100 x 60 mm Amount Volume Conc (units) + Volume (units/mL) For bags & large syringes (eg 50mL) Small: NH601058 **Small 60 x 50mm** For syringes and small bags (eg 50mL and 100mL) Intrathecal Label Large: NH601050 For IntraTHECAL Use Only Large 100 x 60 mm · Volume Conc (units/mL) For bags & large syringes (eg 50mL) Small: NH601051 Small 60 x 50mm For syringes and small bags (eg Prepared by 50mL and 100mL) Regional Label Large: NH601063 For REGIONAL Use Only Large 100 x 60 mm Amount : Volume = Conc (units/mL) For bags & large syringes (eg 50mL) Small: NH601064 **Small 60 x 50mm** For syringes and small bags (eg 50mL and 100mL) **Subcutaneous Label** Large: NH601060 For Subcutaneous Use Only Large 100 x 60 mm Volume Conc (mL) (units/mL) For bags & large syringes (eg 50mL) Small: NH601061 **Small 60 x 50mm** For syringes and small bags (eg 50mL and 100mL) Time Checked by



## **Intravenous Burette Label**



## **Line Labels**

Line Labeis		
Intravenous Line Label	IntraVENOUS IntraVENOUS	NH601055
Central Venous Line Label	CENTRAL VENOUS CENTRAL VENOUS  Line change due	NH601069
Intra-Arterial Line Label	Intra-ARTERIAL Intra-ARTERIAL	NH601070
Intrathecal Line Label	IntraTHECAL Line change due	NH601052
Epidural Line Label	EPIDURAL EPIDURAL	NH601059
Regional Line Label	REGIONAL REGIONAL	NH601065
Subcutaneous Line Label	Subcutaneous Subcutaneous Line change due	NH601062
Miscellaneous Line Label	Route	NH601068

# **Medicine Label for Continuous Infusion Line**

modified Edition for Commissions Emilia				
To indicate contents of a continuous infusion line	Medicine Medicine	NH601073		

# Normal Saline Flush Label

To label a syringe containing a normal saline flush	0.9% Sodium chloride	NH601071		

Appendix 2: AS/NZ Standard 4375 Labels for Use on Syringes Containing Drugs Used During Anaesthesia.

