



# National Standard for User-applied Labelling of **Injectable Medicines, Fluids and Lines\***

**December 2015**

**WA Health**

**AUSTRALIAN COMMISSION ON  
SAFETY AND QUALITY IN HEALTH CARE**

*\* To be read in conjunction with:*

*National Recommendations for User-applied Labelling of Injectable Medicines, Fluids and Lines, August 2010*

*Copyright – Australian Commission on Safety and Quality in Health Care 2010*

# Presentation Summary

- > **Labelling for safety**
- > **Labelling Standard**
  - Aims
  - Minimum requirements
  - Outline and content
- > **Application in clinical practice**



# Labelling for Safety

- > Labelling of injectable medicines, fluids and delivery devices is a major patient safety issue
- > Labelling is often not done or incomplete, omitting information such as:
  - name of medicine
  - medicine dose
  - patient name
  - time of preparation.
- > Incomplete/omitted labelling is a source of medication error



# Medicine administration errors

Medicine administration errors related to absent or inadequate labelling include:

- > Wrong medicine
- > Wrong route
- > Wrong patient

Labelling errors are particularly associated with:

- > Patient transfer between clinical areas
- > Perioperative sterile field
- > 0.9% sodium chloride flush
- > Line misconnections



# Medicine administration errors

## Case Report 1

10mg morphine was given in error as the clinician thought the syringe contained 0.9% sodium chloride.

The unlabelled syringe had a 0.9% sodium chloride ampoule attached.

(unpublished)



# Medicine administration errors

## Case Report 2

A patient was given intravenous (IV) lignocaine with adrenaline solution intended for local anaesthetic infiltration.

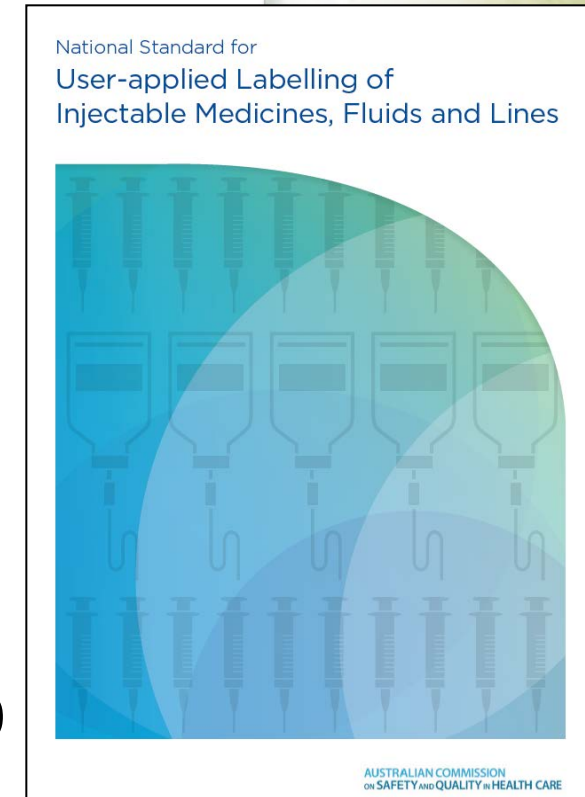
This syringe had been drawn up and placed in a kidney dish alongside IV morphine and midazolam for procedural sedation.

(unpublished)



# The Labelling Standard

- > Draft recommendations were developed by NSW Therapeutic Advisory Group Safer Medicines Group
- > National consultation and pilot testing supported by the Australian Commission on Safety and Quality in Health Care commenced in 2009
- > Labelling Recommendations endorsed by Australian Health Ministers in November 2010
- > Further evaluation, particularly in perioperative areas and interventional procedure rooms
- > Version 2 released February 2012
- > National Standard released September 2015



# The Labelling Standard

- > A national standard for clinical practice in Australia
- > Identifies medicines and fluids removed from manufacturer's original packaging prior to patient administration
- > Identifies line route





# Labelling Standard

## Aims

- > Provide standardisation for user-applied labelling of injectable medicines
- > Provide minimum requirements for user-applied labelling of injectable medicines
- > Promote safer use of injectable medicines



# Labelling Standard Development

- > Based on:
  - International literature/recommendations
  - Australian Standard AS4940: 2002 User-applied identification labels for use on fluid bags, syringes and drug administration lines.
  - International Standard ISO 26825:2008 Anaesthetic and respiratory equipment – user-applied labels for syringes containing drugs used during anaesthesia – colours, design and performance
  - Expert opinion
  - Pilot testing
  - Reported medicine administration incidents



# Labelling Standard

## Minimum requirements

- > All medicines and fluids removed from the manufacturer's or hospital pharmacy's original packaging **must be identifiable**.
- > All containers (e.g. bags, syringes) containing medicines leaving the hands of the person preparing the medicine **must be labelled**.
- > **Prepare and label one medicine at a time** before the preparation and labelling of a subsequent medicine.
- > Any medicine or fluid that **cannot be identified** (e.g. in an unlabelled syringe or other container) is considered unsafe and **should be discarded**.



# Labelling Standard Consultation

Labelling Standard development since 2009 has involved:

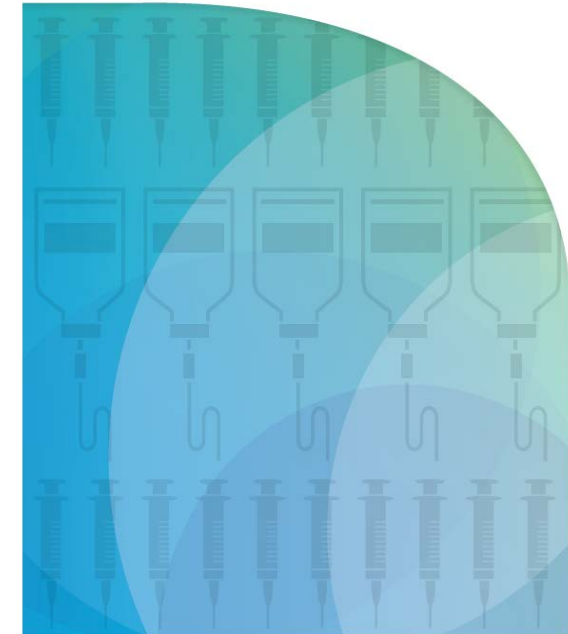
- State and territory health departments
- State and territory safer medicines groups
- Australian Association of Nuclear Medicine Specialists
- Australian College of Critical Care Nurses
- Australian College of Nursing
- Australian College of Operating Room Nurses
- Australian and New Zealand College of Anaesthetists
- Australian and New Zealand Intensive Care Society
- Australian and New Zealand Society for Nuclear Medicine
- Australian Nursing and Midwifery Federation
- Australian Pharmaceutical Healthcare Systems
- Australian Private Hospitals Association
- Cancer Council Australia
- Cardiac Society of Australia and New Zealand
- Catheter Laboratory Nursing Council
- Clinical Oncological Society of Australia
- College of Emergency Nursing Australia
- Consumers Health Forum
- Council of Australian Therapeutic Advisory Groups
- Intensive Care Coordination and Monitoring Unit, New South Wales
- Renal Society of Australasia
- Royal Australian and New Zealand College of Radiologists
- SESIAHS Sterilising Services, Randwick Hospitals Campus
- Society of Hospital Pharmacists of Australia
- Women's & Children's Hospitals Australasia



# Labelling Standard Outline

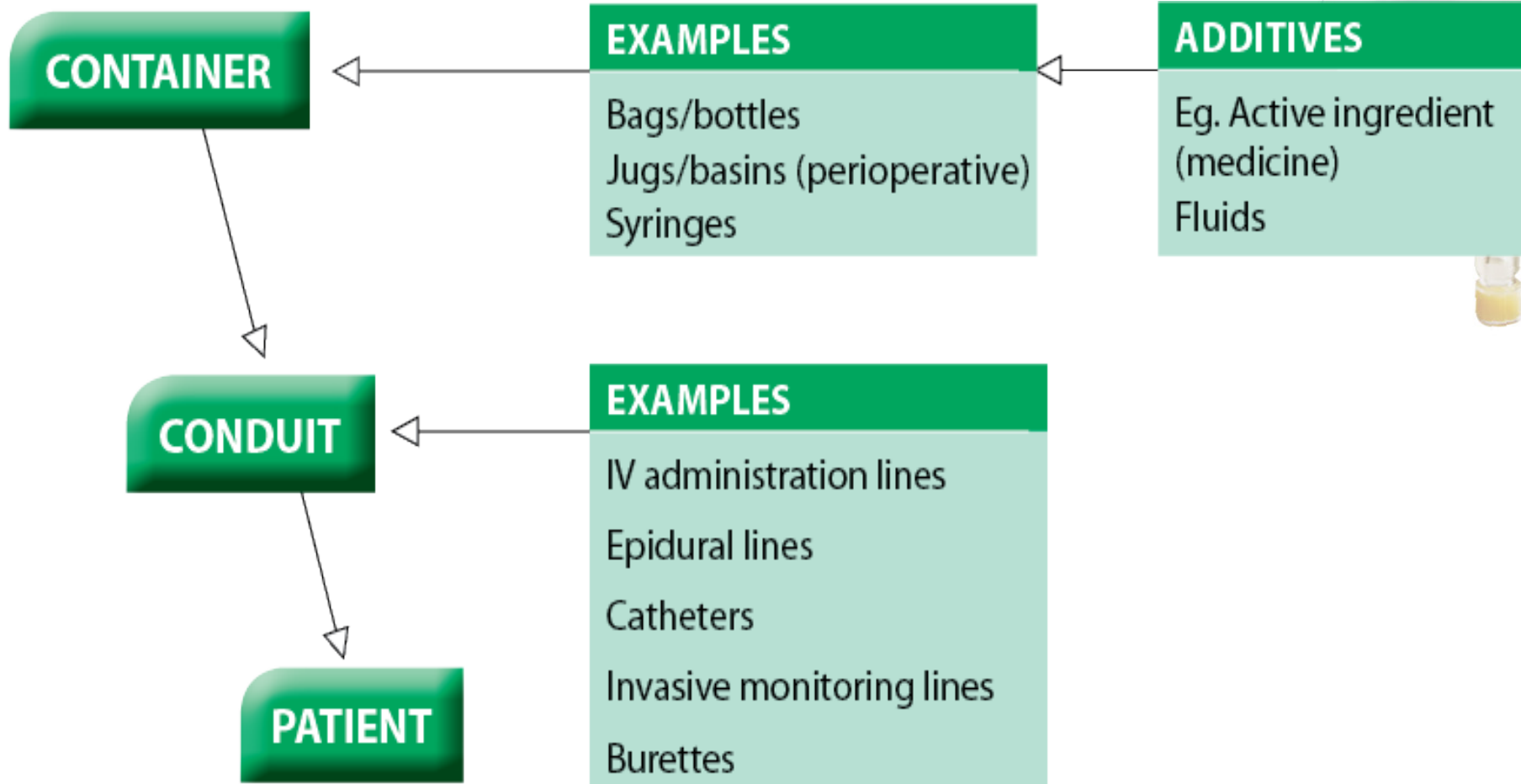
- > What should be labelled
- > What should be included on the label
- > Where the label should be placed
- > Where the Labelling Standard applies

National Standard for  
User-applied Labelling of  
Injectable Medicines, Fluids and Lines



AUSTRALIAN COMMISSION  
ON SAFETY AND QUALITY IN HEALTH CARE

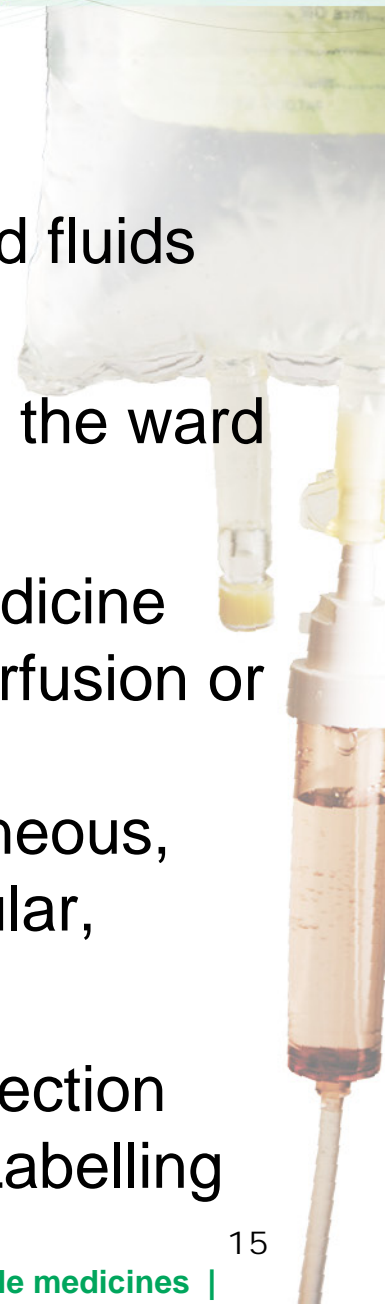
# Labelling Standard Scope



# Labelling Standard Scope

- > **all clinical areas** where injectable medicines and fluids are administered
- > **all injectable medicines and fluids** prepared in the ward or clinical area
- > **injectable medicines**, defined as any sterile medicine intended for administration by bolus injection, perfusion or infusion by the following routes: intravenous, intramuscular, intrathecal, intra-arterial, subcutaneous, intradermal, intraventricular, epidural, intravesicular, intravitreal, intrapleural and intra-ocular.

This list is not exhaustive, and other routes of injection should also be considered in the context of the Labelling Standard (e.g. intraosseous and intraperitoneal)



# Labelling Standard Extended Scope

- > Labelling of containers in perioperative settings (including cardiac catheter and interventional radiology units). The Anaesthetic Labelling Standard (ISO 26825:2008) applies to syringes containing medicines used during anaesthesia
- > Colour coded pre-printed medicine labels for use on dedicated continuous infusion lines
- > Liquid medicines for oral, enteral and inhalational use
- > Labelling of non-injectable medicines and fluids prepared in the same area as injectable medicines.





# Labelling Standard Exclusions

- > Injectable medicines and fluids:
  - > prepared by hospital pharmacy departments, external manufacturers or compounding centres
  - > not directly administered to the patient e.g. ampoules
- > Administration portals
- > Topical products prepared when injectable medicines are not present; however, the same principles of identification translate to topical use of medicines, solutions, chemicals
- > extemporaneously dispensed radiopharmaceuticals and reagents



# Application in clinical practice



# All Containers: Label content

- > **Patient:** Write the patient's given name and family name
- > **Identifier (ID):** This is the URN or MRN or other local unique identifier for the patient
- > **Date of Birth (DOB):** This is a third patient identifier on the label
- > For each medicine added to the container specify:
  - Medicine name (active ingredient)
  - Amount (total added to the container), including units
  - Volume (total volume of fluid in the container) in mL
  - Concentration (units/mL)
  - Diluent (syringes only)
  - Date and time of preparation
  - Signed by personnel preparing and checking medicine

**For IntraVENOUS Use Only**

Patient .....

ID ..... DOB .....

Medicine/s	Amount (units)	÷	Volume (mL)	=	Conc (units/mL)
.....	.....		.....		.....
.....	.....		.....		.....

Diluent .....

Date ..... Prepared by .....

Time ..... Checked by .....

## All Containers: Label content (continued)

- > Diluent - complete for all syringes
- > 'Date' and 'Time' the medicine is prepared
- > 'Prepared by' and 'Checked by' to be signed by responsible personnel

For IntraVENOUS Use Only				
Patient Peter Smith				
ID 123456			DOB: 18/5/72	
Medicine/s	Amount (units)	÷	Volume (mL)	= Conc (units/mL)
Vancomycin 1000mg in 250mL				
(4mg/mL)				
Diluent				
Date 10/09/2010			Prepared by Sign 1	
Time 16:00			Checked by Sign 2	

*Example of intravenous bag additive label*



# All Containers: Label content (continued)

<b>ROUTE</b> Intramuscular			
Patient Peter Smith			
ID 123456	DOB: 17/8/63		
Medicine/s	Amount (units)	÷ Volume (mL)	= Conc (units/mL)
Olanzapine	10mg	in 2mL	(5mg/mL)
Diluent Water for injection			
Date 10/09/2010	Prepared by Sign 1		
Time 19:00	Checked by Sign 2		

*Example of intramuscular route syringe label*

<b>For Subcutaneous Use Only</b>			
Patient Peter Smith			
ID 123456	DOB: 17/8/63		
Medicine/s	Amount (units)	÷ Volume (mL)	= Conc (units/mL)
Morphine	60mg	in 10mL	(6mg/mL)
Metoclopramide	30mg	in 10mL	(3mg/mL)
Diluent Water for injection			
Date 10/09/10	Prepared by Sign 1		
Time 17:00	Checked by Sign 2		

*Example of subcutaneous route syringe label*

# Identifying target tissue/ route of administration

A standard colour system is used to identify the target tissue/intended route of administration\*

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

\*Modified from Australian Standard AS4940

# Bag and syringe labels

Available in 2 sizes for intravenous, epidural, intrathecal, regional, subcutaneous and miscellaneous use.

The image displays six different label templates for medical use, arranged in two rows and three columns. Each label has a distinct color and a specific use case:

- Top Left (Yellow):** For EPIDURAL Use Only. Includes fields for Patient ID, DOB, a calculation table (Medicine/s, Amount (units) ÷ Volume (mL) = Conc (units/mL)), Diluent, Date, Prepared by, and Time/Checked by.
- Top Middle (Yellow):** For IntraTHECAL Use Only. Includes fields for Patient ID, DOB, a calculation table, Diluent, Date, Prepared by, and Time/Checked by.
- Top Right (White):** For REGIONAL Use Only. Includes fields for Type, Patient ID, DOB, a calculation table, Diluent, Date, Prepared by, and Time/Checked by.
- Bottom Left (Light Blue):** For IntraVENOUS Use Only. Includes fields for Patient ID, DOB, a calculation table, Diluent, Date, Prepared by, and Time/Checked by.
- Bottom Middle (Orange):** For Subcutaneous Use Only. Includes fields for Patient ID, DOB, a calculation table, Diluent, Date, Prepared by, and Time/Checked by.
- Bottom Right (Pink):** For ROUTE Use Only. Includes fields for Patient ID, DOB, a calculation table, Diluent, Date, Prepared by, and Time/Checked by.

## Bags with additives

- > Bags (and bottles) only require user-applied labels when a medicine is added in the clinical/ward area
- > Label **IMMEDIATELY** an injectable medicine is added
- > The 'diluent' should be identified on the label if the base fluid contained is not easily identifiable from the original manufacturers label (see label placement).





# Bags with additives

(continued)

## Placement:

- > Place labels on the FRONT of the bag to ensure the name of base fluid, batch number and expiry date remain visible.
- > Place slightly off centre to ensure graduations on one side of the bag remain visible



# Syringes

## For bolus or infusion

- > Label all injectable medicines drawn up in syringes that leave the hand of the operator **IMMEDIATELY**.
- > Prepare multiple syringes by preparing and labelling one syringe in an independent operation before preparing a subsequent medicine
- > Labelling is NOT required when
  - preparation and bolus administration of a SINGLE medicine from a SINGLE syringe are one uninterrupted process, and
  - the syringe remains in the hand of the person who prepared it, and
  - the same person administers the medicine IMMEDIATELY

# Syringes

## For bolus or infusion (continued)

### Placement

Place label so graduations on the syringe scale remain visible

- > Apply parallel to the long axis of the syringe barrel, top edge flush with scale



- > Apply label as a 'flag' for small syringes



## Labelling IV flushes

- > Label any fluid drawn up in a syringe for use as an IV flush (e.g. 0.9% sodium chloride) unless preparation and bolus administration is one uninterrupted process
- > Use an abbreviated preprinted 0.9% sodium chloride label
- > Use full container labels for all other medicines and fluids

**Sodium Chloride 0.9%**



## All containers: Discarding Content

- > Any unlabelled container holding a solution must be immediately discarded
- > Any container, where there is doubt over content, must be discarded
- > Any medicine remaining in the container at the end of a procedure must be discarded



# Lines and catheters: Route of administration

Available for intravenous, central venous, epidural, intrathecal, regional, subcutaneous and intra-arterial.

<b>IntraVENOUS</b>	<b>IntraVENOUS</b>
Commenced:	Date ...../...../.....
	Time .....

<b>IntraTHECAL</b>	<b>IntraTHECAL</b>
Catheter commenced:	Date ...../...../.....
	Time .....

<b>Subcutaneous</b>	<b>Subcutaneous</b>
Commenced:	Date ...../...../.....
	Time .....

<b>CENTRAL VENOUS</b>	<b>CENTRAL VENOUS</b>
Commenced:	Date ...../...../.....
	Time .....

<b>EPIDURAL</b>	<b>EPIDURAL</b>
Catheter commenced:	Date ...../...../.....
	Time .....

Route .....	Route .....
Commenced:	Date ...../...../.....
	Time .....

<b>Intra-ARTERIAL</b>	<b>Intra-ARTERIAL</b>
Commenced:	Date ...../...../.....
	Time .....

<b>REGIONAL</b>	<b>REGIONAL</b>
Catheter commenced:	Date ...../...../.....
	Time .....

<b>Enteral</b>	<b>Enteral</b>
Commenced:	Date ...../...../.....
	Time .....

# Lines and catheters: Route of administration (continued)

- > Labelling administration lines and catheters
  - Label all lines to identify route
  - Add date and time the line was commenced
  - Identify catheters where there is a risk of wrong route administration, e.g. the patient entry portal is distant from the administration site
  
- > Labelling invasive monitoring lines
  - Identify all lines, including those not primarily intended for medicine administration.



# Lines:

## Active ingredient

- > Identify the medicine (active ingredient) within administration lines for dedicated continuous infusions
- > Use preprinted labels where possible.
- > Colour should comply with Anaesthetic Labelling Standard (and its extension)

Potassium Chloride

- > Lines for intermittent infusions do not need labelling for medicine. Any medicine label applied must be removed on completion of infusion





# Pre-printed medicine line label guide

The following **examples** of medicine line labels for dedicated continuous infusion lines represent the majority of medicine line labels. For details on selection and application please refer to details on reverse.

<p><b>Adrenaline</b></p> <p><i>Vasopressor, Adrenaline</i> Violet bold reverse plate letters in a black bar on upper half of the label. Violet on lower half of label PMS 256 RGB 222.191.217</p> <p><b>aminOPHYLLine</b></p> <p><i>Miscellaneous</i> B/W, Tall Man lettering</p> <p><b>amIODAROne</b></p> <p><i>Miscellaneous</i> B/W, Tall Man lettering</p> <p><b>Atropine</b></p> <p><i>Anticholinergic</i> Teal green label with black font PMS 367 RGB 163.217.99</p> <p><b>Cisatracurium</b></p> <p><i>Muscle relaxant</i> Fluorescent red with black font. Note (d) PMS 811 RGB 253.121.86</p> <p><b>Clonidine</b></p> <p><i>Hypotensive</i> Violet with white diagonal stripe border PMS 256 RGB 222.191.217</p> <p><b>Dexmedetomidine</b></p> <p><i>Miscellaneous</i> B/W</p> <p><b>Diazepam</b></p> <p><i>Benzodiazepine</i> Orange label with black font, Tall Man lettering PMS 151 RGB 255.102.0</p> <p><b>Dobutamine</b></p> <p><i>Vasopressor</i> Violet label with black font PMS 256 RGB 222.191.217</p> <p><b>Dopamine</b></p> <p><i>Vasopressor</i> Violet label with black font PMS 256 RGB 222.191.217</p>	<p><b>Fentanyl</b></p> <p><i>Opioid</i> Blue label with black font PMS 297 RGB 133.199.227</p> <p><b>Frusemide</b></p> <p><i>Miscellaneous</i> B/W</p> <p><b>Glyceryl trinitrate</b></p> <p><i>Hypotensive</i> Violet with white diagonal stripe border PMS 256 RGB 222.191.217</p> <p><b>Heparin</b></p> <p><i>Anticoagulant</i> Teal green label with a 1 to 2mm solid black border PMS 3255 RGB 71.214.199</p> <p><b>Insulin</b></p> <p><i>Miscellaneous /High risk</i> White label with red font</p> <p><b>Isoprenaline</b></p> <p><i>Hypotensive</i> Violet with white diagonal stripe border PMS 256 RGB 222.191.217</p> <p><b>Ketamine</b></p> <p><i>Induction agent</i> Yellow label with black font PMS Process yellow C RGB 255.255.0</p> <p><b>Levosimendan</b></p> <p><i>Hypotensive</i> Violet with white diagonal stripe border PMS 256 RGB 222.191.217</p> <p><b>Lignocaine</b></p> <p><i>Local anaesthetic</i> Grey label with black font PMS 401 RGB 194.184.171</p> <p><b>Magnesium</b></p> <p><i>Miscellaneous</i> B/W</p>	<p><b>Metaraminol</b></p> <p><i>Vasopressor</i> Violet label with black font PMS 256 RGB 222.191.217</p> <p><b>Midazolam</b></p> <p><i>Benzodiazepine</i> Orange label with black font PMS 151 RGB 255.102.0</p> <p><b>Milrinone</b></p> <p><i>Hypotensive</i> Violet with white diagonal stripe border PMS 256 RGB 222.191.217</p> <p><b>Morphine</b></p> <p><i>Opioid</i> Blue label with black font PMS 297 RGB 133.199.227</p> <p><b>Naloxone</b></p> <p><i>Opioid antagonist</i> Blue with white diagonal stripe border PMS 297 RGB 133.199.227</p> <p><b>niMODIPine</b></p> <p><i>Hypotensive</i> Violet with white diagonal stripe border, Tall Man Lettering PMS 256 RGB 222.191.217</p> <p><b>Noradrenaline</b></p> <p><i>Vasopressor</i> Violet label with black font PMS 256 RGB 222.191.217</p> <p><b>Octreotide</b></p> <p><i>Miscellaneous</i> B/W</p> <p><b>Oxycodone</b></p> <p><i>Opioid</i> Blue label with black font PMS 297 RGB 133.199.227</p> <p><b>Pancuronium</b></p> <p><i>Muscle relaxant</i> Fluorescent red with black font. Note (d) PMS 811 RGB 253.121.86</p>	<p><b>Potassium chloride</b></p> <p><i>Miscellaneous/High risk</i> White label with red font</p> <p><b>propOFol</b></p> <p><i>Induction agent</i> Yellow label with black font, Tall Man lettering PMS Process yellow C RGB 255.255.0</p> <p><b>Protamine</b></p> <p><i>Anticoagulant antagonist</i> Teal green label with a 1 to 2mm diagonal stripe black border PMS 3255 RGB 71.214.199</p> <p><b>Rocuronium</b></p> <p><i>Muscle relaxant</i> Fluorescent red with black font. Note (d) PMS 811 RGB 253.121.86</p> <p><b>Ropivacaine</b></p> <p><i>Local anaesthetic</i> Grey label with black font PMS 401 RGB 194.184.171</p> <p><b>Salbutamol</b></p> <p><i>Miscellaneous</i> B/W</p> <p><b>Sodium chloride 0.9%</b></p> <p><i>Miscellaneous</i> B/W</p> <p><b>Sodium chloride 20%</b></p> <p><i>Miscellaneous/High risk</i> White label with red font</p>	<p><b>Sodium nitroprusside</b></p> <p><i>Hypotensive</i> Violet with white diagonal stripe border PMS 256 RGB 222.191.217</p> <p><b>Suxamethonium</b></p> <p><i>Muscle relaxant, Suxamethonium</i> Fluorescent red bold reverse plate letters in a black bar on upper half of label. Fluorescent red on lower half of label. Note (d) PMS 811 RGB 253.121.86</p> <p><b>Thiopentone</b></p> <p><i>Induction agent</i> Yellow label with black font PMS Process yellow RGB C 255.255.0</p> <p><b>Urokinase</b></p> <p><i>Anticoagulant</i> Teal green label with black font PMS 3255 RGB 71.214.199</p> <p><b>Vasopressin</b></p> <p><i>Vasopressor</i> Violet label with black font PMS 256 RGB 222.191.217</p> <p><b>Vecuronium</b></p> <p><i>Muscle relaxant</i> Fluorescent red with black font. Note (d) PMS 811 RGB 253.121.86</p>
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## NOTES:

- Colours are a guide only and will digitally print according to software used.
- Refer to PMS and RGB code for printed label colour.
- B/W = Black text on white background.
- Use Warm Red or 245.64.41 if printing is difficult.

\* To be read in conjunction with National Standard for User-applied Labelling of Medicines, Fluids and Lines (Feb 2014). Copyright the Australian Commission for Safety and Quality in Health Care 2014



## Lines:

### Label Placement

- > Route:
  - Use colour coded route label
  - Label near the injection port on the patient side

*\*Exception where there is a possibility of tampering (e.g. paediatric patients)*



## Lines (continued)

### Label Placement

- > Medicine (Active ingredient):
  - Use pre-printed medicine label if available
  - Use generic medicine label
  - Label close to patient entry portal adjacent to route label

*\*Exception where there is a possibility of tampering*

*(e.g. paediatric patients)*

Potassium Chloride

Medicine

Medicine



# Special circumstances

## No label required if:

Preparation and bolus administration of a SINGLE medicine from a SINGLE syringe is one uninterrupted process

- the syringe DOES NOT leave the hands of the person who prepared it,

and

- that same person administers the medicine IMMEDIATELY



# Burettes

# Burettes

- > Use 'peel-off' labels reserved for use on burettes ONLY
- > Place label so that text is upright and ensure that the burette graduations are not obscured
- > Burette labels must be removed once the medicine has been administered to the patient

**Burette Label for IntraVENOUS Use**

Patient .....

ID ..... DOB .....

Medicine/s	Amount (units)	÷	Volume (mL)	=	Conc (units/mL)
.....	.....		.....		.....
.....	.....		.....		.....
.....	.....		.....		.....

Date ..... Prepared by .....

Time ..... Checked by .....

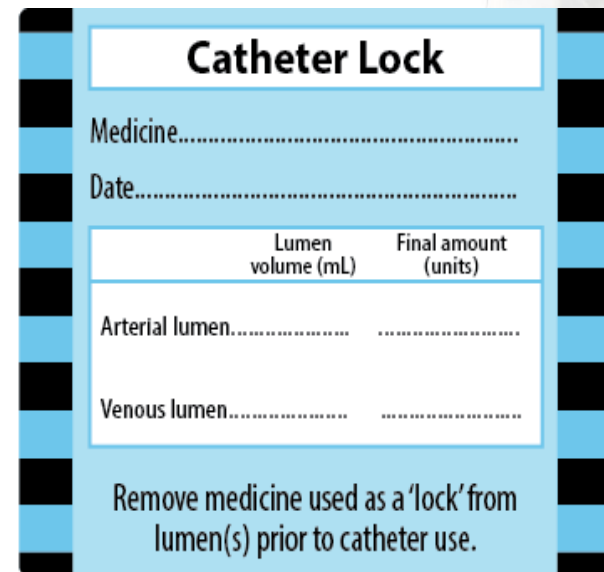




# Catheter Lock

# Catheter Lock

- > For central venous access devices that are locked with a medicine (e.g. heparin)
- > Label to partially cover the catheter dressing
- > Remove label after removing medicine from the lock
- > Label to have a 'peel off' adhesive strength to ensure dressing remains in place



**Catheter Lock**

Medicine.....

Date.....

	Lumen volume (mL)	Final amount (units)
Arterial lumen.....	.....	.....
Venous lumen.....	.....	.....

Remove medicine used as a 'lock' from lumen(s) prior to catheter use.





# Non-Injectable Medicine

- ENTERAL ROUTE

- INHALATION

# Non-Injectable Medicine – Enteral Route

- > Container and line labels available
- > Syringes for non-injectable solutions must not be compatible with parenteral entry portals

**For Enteral Use Only**

Patient .....  
 ID ..... DOB .....

Medicine/s	Amount (units)	÷	Volume (mL)	=	Conc (units/mL)
.....	.....		.....		.....
.....	.....		.....		.....
.....	.....		.....		.....

Diluent .....  
 Date ..... Prepared by .....  
 Time ..... Checked by .....

Enteral	Enteral
Commenced:	Date ...../...../.....
	Time .....

# Non-Injectable Medicine – INHalation

- > Nebules are preferred source of solutions for inhalation
- > If nebuliser solutions must be measured with a syringe then label the syringe

**For Inhalation Use Only**

Patient .....

ID ..... DOB .....

Medicine/s	Amount (units)	÷	Volume (mL)	=	Conc (units/mL)
.....	.....		.....		.....
.....	.....		.....		.....
.....	.....		.....		.....

Diluent .....

Date ..... Prepared by .....

Time ..... Checked by .....

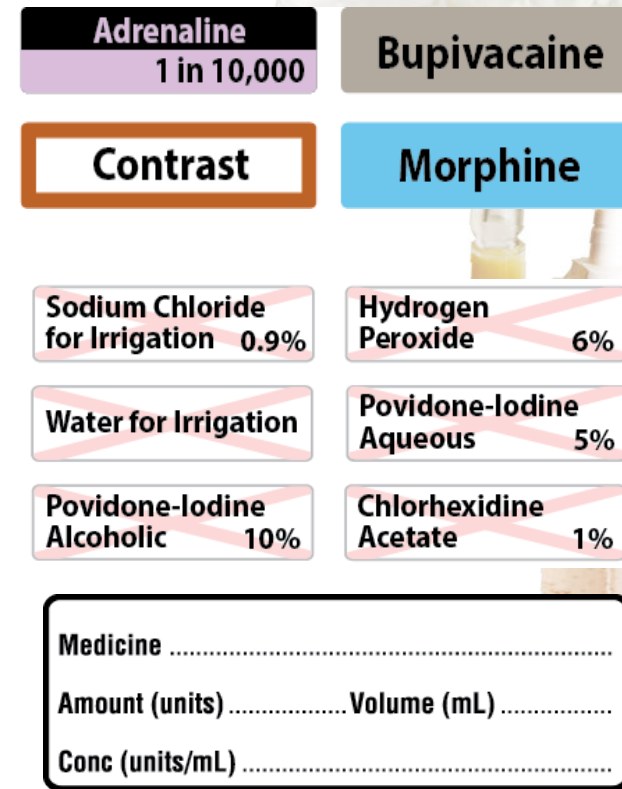


# Closed –Practice Environments

- Perioperative  
Sterile Field
- Interventional  
Cardiology
- Radiology

## Sterile field (i.e. aseptic conditions)

- > **Closed-practice environment:** where patient identification is established and other means of recording labelling and preparation signatories are available
- > Any container holding medicines or fluids on the perioperative sterile field must be identifiable.
- > Preprinted abbreviated container labels can be used
- > Non-injectable medicines and fluids are identified with a red St Andrew's Cross watermark
- > Sterile markers must be available for use in the sterile field.

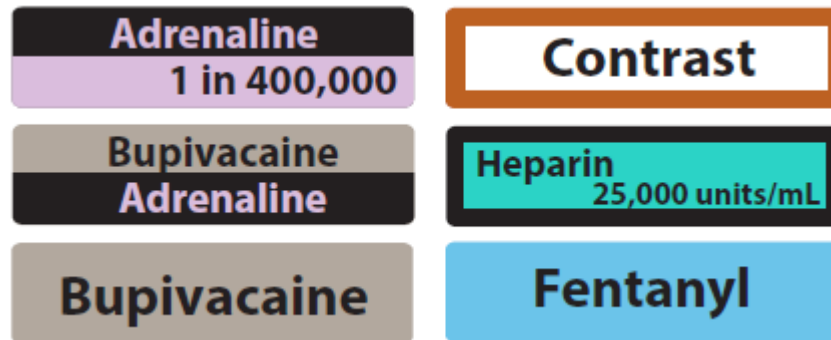




# Perioperative environments

# Perioperative environments

- > Continue to label syringes containing drugs used during anaesthesia to comply with ISO26825:2008



- > Use preprinted labels or the 'peel off' abbreviated container label where patient identity is established and there are other means of recording labelling and preparation signatories

Medicine .....	.....
Amount (units) .....	Volume (mL) .....
Conc (units/mL) .....	.....

# Perioperative environments

## Closed-practice environment (a single patient with established identity)

Label syringes containing medicines used during anaesthesia

For example:

**Morphine**

**Ephedrine**

**Atropine**

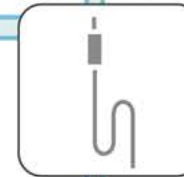
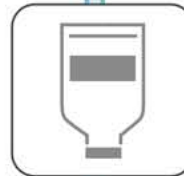
**Ketamine**

**Levosimendan**

**Suxamethonium**



Use ISO 26825:2008 compliant labels.



Label containers in the sterile field – for example:

Medicine.....  
Conc (units/mL).....

**Sodium Chloride 0.9%**

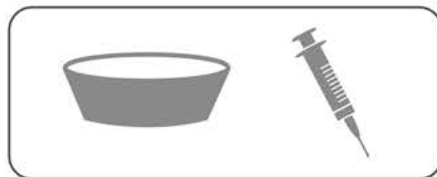
**Povidone-Iodine**

**Adrenaline**  
1 in 1,000

**Bupivacaine**

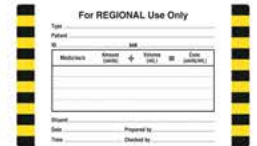
**Morphine**

Use sterile labels and sterile marker pens



## Open-practice environment (more than one patient in the same area)

Label all containers (including syringes) containing medicines to continue beyond the operating room

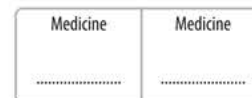


Label lines to identify route



+

Label lines to identify medicine in a dedicated continuous infusion line – for example:



**Morphine**

**Noradrenaline**



# Perioperative sterile field

- > Use preprinted label sheets with medicine name and concentration. Colour coding to follow ISO26825:2008 (Anaesthetic Labelling Standard)
- > Use abbreviated container label where preprinted labels unavailable
- > Labels must remain intact for duration of procedure
- > Labels must adhere for duration of procedure
- > Labels should be removed at the end of the procedure for reusable hollowware containers



# Perioperative sterile field

- > Example of preprinted label sheet for perioperative sterile field
- > Note that labels for non-injectable fluids are clearly separated on the sheet

<del>Hydrogen Peroxide 3%</del>	<del>Sodium Chloride for Irrigation 0.9%</del>	<del>Water for Irrigation</del>	
<del>Hydrogen Peroxide 6%</del>	<del>Sodium Chloride for Irrigation 0.9%</del>	<del>Water for Irrigation</del>	
<del>Chlorhexidine Gluconate 0.1%</del>	<del>Chlorhexidine Alcoholic 2%</del>	<del>Povidone-Iodine Aqueous 10%</del>	<del>Methylene Blue</del>
<del>Chlorhexidine Acetate 1%</del>	<del>Iodine Aqueous (Lugol's) 5%</del>	<del>Povidone-Iodine Alcoholic 10%</del>	<del>Sodium Chloride for Irrigation 0.9%</del>
<del>Chlorhexidine Alcoholic 0.5%</del>	<del>Povidone-Iodine Aqueous 5%</del>	<del>Paraffin Liquid</del>	<del>Sodium Chloride for Irrigation 0.9%</del>

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<b>Sodium Chloride for Injection 0.9%</b>	Medicine..... Conc (units/mL).....	Medicine..... Conc (units/mL).....
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Sodium Chloride for Injection 0.9%	Betamethasone Sodium Phosphate	<b>Clonidine</b>	<b>Verapamil</b>
Sodium Chloride for Injection 0.9%	<b>Bupivacaine</b>	<b>Heparin</b> 10 units/mL	<b>Adrenaline</b> 1 in 1,000
<b>cephazolin</b>	<b>Lignocaine</b>	<b>Heparin</b> 25 units/mL	<b>Adrenaline</b> 1 in 10,000
<b>Gentamicin</b>	<b>Ropivacaine</b>	<b>Heparin</b> 1,000 units/mL	<b>Adrenaline</b> 1 in 400,000
<b>Vancomycin</b>	<b>Ropivacaine</b>	<b>Heparin</b> 1,000 units/mL	<b>Lignocaine</b> <b>Adrenaline</b>
<b>Contrast</b>	<b>Morphine</b>	<b>Heparin</b> 25,000 units/mL	<b>Ropivacaine</b> <b>Adrenaline</b>



Interventional  
cardiology,  
radiology and other  
low-light procedure  
areas

# Low-light procedure areas

- > Use preprinted label sheets with medicine name
- > Colour coding to follow ISO26825:2008 (Anaesthetic Labelling Standard)
- > Example preprinted label sheet for cardiac catheter laboratory

Intra-ARTERIAL	Intra-VEINUS	Intra-VEINUS	
Intra-ARTERIAL	CENTRAL VEINUS	Intra-ARTERIAL	
<del>Chlorhexidine</del>	<del>Povidone-Iodine</del>	<del>Water for Irrigation</del>	
<del>Alcohol</del>	Chlorhexidine	<del>Polyvinyl Alcohol</del>	
<del>Povidone-Iodine</del>			
Abciximab	Adrenaline 1 in 400,000	Ropivacaine Adrenaline	Adenosine
Bivalirudin	Adrenaline 1 in 400,000	Bupivacaine	Adenosine
Eptifibatide	Metaraminol	Levobupivacaine	Fibro-Vein
Heparin	Papaverine	Lignocaine	Flecainide Acetate
Heparin	Glyceril Trinitrate	Mepivacaine	Sodium Chloride for Injection 0.9%
Tirofiban	Isoprenaline	Ropivacaine	Sodium Chloride for Injection 0.9%
Urokinase	NI-MODIPINE	Diazepam	Contrast
Heparinised Saline	Sodium Nitroprusside	Midazolam	Contrast
Heparinised Saline	Verapamil	propOFol	Contrast
Protamine	Verapamil	Fentanyl	Medicine..... Conc (units/mL).....
Atropine	Bupivacaine Adrenaline	Fentanyl	Medicine..... Conc (units/mL).....
Butylscopolamine	Lignocaine Adrenaline	Morphine	



## Further information:

Go to the Australian Commission on Safety and Quality in Health Care website

**[www.safetyandquality.gov.au](http://www.safetyandquality.gov.au)**