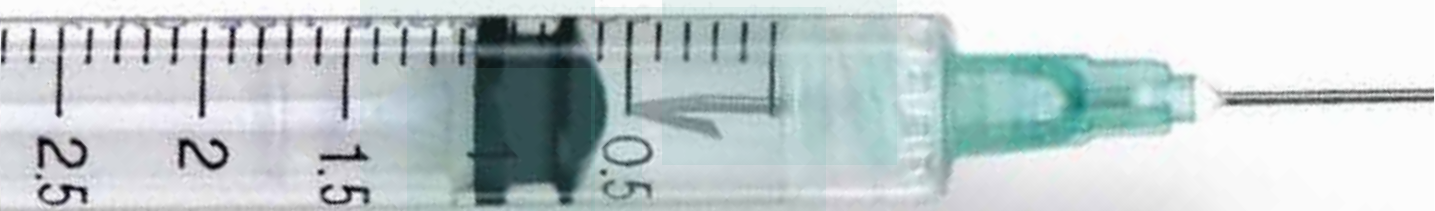




Pharmaceutical Services Division,  
Ministry of Health Malaysia



Guideline On  
**Syringe Labelling**  
**In Critical Care Areas**

# **GUIDELINE ON SYRINGE LABELLING IN CRITICAL CARE AREAS**

Pharmaceutical Services Division  
Ministry of Health Malaysia

## **GUIDELINE ON SYRINGE LABELLING IN CRITICAL CARE AREAS**

First Edition

2012

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## Acknowledgement

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# GUIDELINE ON SYRINGE LABELLING IN CRITICAL CARE AREAS

## **BACKGROUND:**

The quick administration of a wide variety of potent medications, often in high acuity situations and in environments with poor visibility and multiple distractions may contribute to medication errors. Therefore, consistency and clarity of syringe labelling are important elements in the prevention of medication errors as a result of look-alike-drugs, similarly coloured ampoules and frequent changes in use of various brands by different manufacturers.

Colour coding is the systematic standard application of colour to aid in the classification and identification of drug products. Under this system, medical personnel must apply the appropriate coloured labels to syringes containing the appropriate medication. The coloured labels are intended to provide visual cues so there will be a reduced risk of interclass drug error, that is to reduce the problem of accidental syringe swapping. A uniform colour coding will be a useful adjunct in identifying the specific drug use. However, **all medical personnel must read the labels of all drugs before they are administered.**

Thus, the Ministry of Health Malaysia has embarked on a colour coding system for user-applied syringe labels in critical care areas based on the Standard D 4774-94 by the American Society for Testing and Materials International (ASTM) and ISO 26825:2008 which is already used in North America, Australasia and United Kingdom. Hospital Kuala Lumpur has also adopted and adapted this system since 2009 in response to a few incidents of perioperative medication errors reported in 2008.

## **OBJECTIVE:**

1. To standardise color coding for syringe labelling.
2. To prevent medication mix-ups, hence reduce drug administration errors.
3. To provide an easy-to-use classification, identification and differentiation system for syringes.

## **USERS:**

This guideline applies to all healthcare providers who are involved in the management of critically ill patients. This includes personnel in the operating theatres, intensive care units (ICU), coronary care units (CCU) and other areas with critically ill patients.

## **WHEN TO USE:**

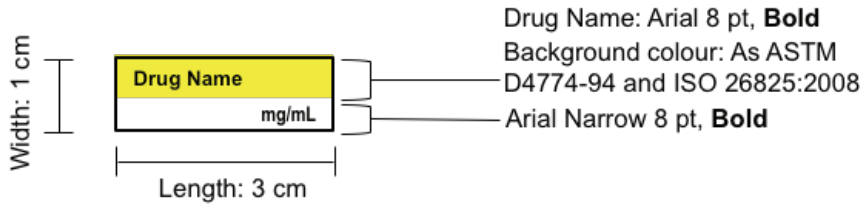
These labels are for use when the medication is syringed out but not used immediately.



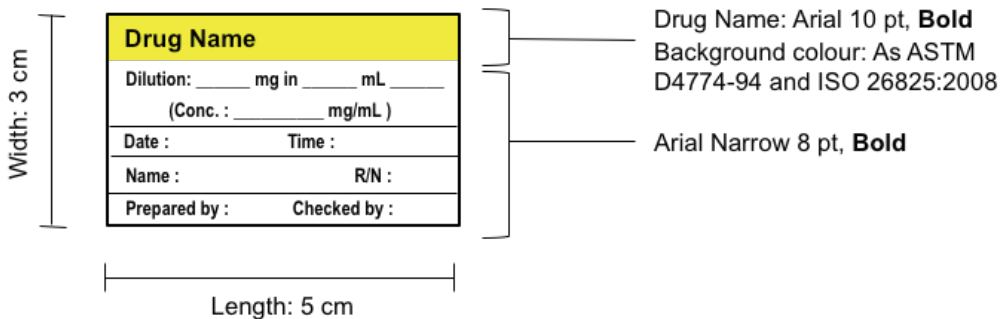
## Guideline on Syringe Labelling In Critical Care Areas

### LABEL SPECIFICATIONS:

Label to be used in Accident & Emergency units and Operation Theatres (please refer Appendix 1):



Label to be used in other units with critically ill patients (please refer Appendix 2):



a) **Drug name:** Generic name as in MOH Drug Formulary

b) **Drug Dilution / Concentration:**

Dilution of drug shall be stated clearly by writing the amount of drug in mg, amount of diluent in mL and type of diluent as shown below:

**Example:**

Dilution:  $\frac{1}{\text{(amount of drug)}} \text{ mg in } \frac{250}{\text{(amount of diluent)}} \text{ mL } \frac{\text{NS}}{\text{(type of diluent)}}$

Final concentration shall be written as shown below:

**Example:**

(Conc.:  $\frac{60}{\text{(please refer appendix to check units for respective drug)}} \text{ mcg/mL}$ )

Units and symbols for concentration should be as below:

No.	Units	Symbols
i.	Milligram per millilitre	mg/mL
ii.	Microgram per millilitre	mcg/mL
iii.	Units per millilitre	unit/mL

c) Date and time of when the drug is prepared

**d) Lettering:**

- For drug name:
  - Lettering shall be in sentence case printed on upper part of label.
  - Background colour shall be used for maximum contrast.
  - Tall Man Lettering is used to distinguish look alike, sound alike medications from one another in order to avoid medication errors.
  - Font type : Arial
  - Font size: 10 point, Bold
- For others :
  - Font type : Arial Narrow
  - Font size : 8 point, Bold

**e) Special labelling:**

To denote a drug of **opposite action** or **antagonists** e.g. Neostigmine and Flumazenil, 1mm wide diagonal stripes of the designated colour, alternating with a 1mm wide white stripe is used. The stripes should run from lower left to upper right at approximately 45 degrees. The stripes should be omitted behind the drug name.

Example:

<b>Flumazenil</b>	
Dilution: _____ mg in _____ mL _____ (Conc. : _____ mg/mL)	
Date :	Time :
Name :	R/N :
Prepared by :	Checked by :

## Guideline on Syringe Labelling In Critical Care Areas

### f) Prepared by and checked by:

Reconstituted medication must be counterchecked by different personnel. Initials of personnel shall be written on the space provided.

### g) Size of label:

Recommended size:

- 1 cm (width) x 3 cm (length) for Accident & Emergency unit and Operation Theatre.
- 3 cm (width) x 5 cm (length) for other units with critically ill patients.

### h) Type of material:

Quality of paper should enable the label to be written clearly.

### i) Combination drugs:

Syringe labels for the following combination of drugs shall be prepared on a white background:

- Midazolam + Morphine
- Midazolam + Fentanyl

Example:

<b>Midazolam + Morphine</b>	
Dilution: ____ mg in ____ mL ____ (Conc. : ____ mg/mL)	
Date :	Time :
Name :	R/N :
Prepared by :	Checked by :

### **PRECAUTIONS**

The adoption of color coding system for pharmaceutical products should be done with great caution. Potential problems include:

- Color coding may offer a false sense of security and, in some instances, result in failure of the physician or other health professional to **“READ THE LABEL”**.
- Color coding of drug classes can increase the chance of “intra-class” medication errors.
- It is not always possible to exactly reproduce the same colors from batch to batch or manufacturer to manufacturer.
- People with colour blindness may have some difficulty in identifying colours.





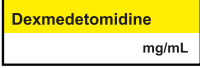

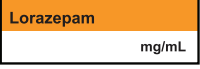
### **REFERENCES:**

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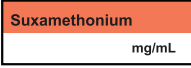


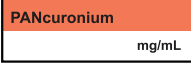

# APPENDIX 1








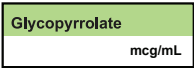


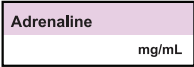
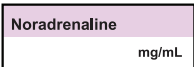
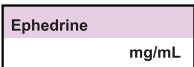
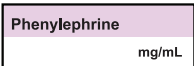
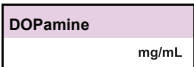
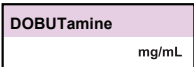

LABELS TO BE USED IN ACCIDENT & EMERGENCY UNITS AND OPERATION THEATRES

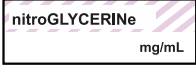


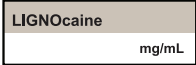
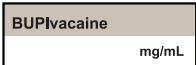
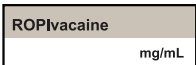

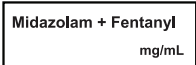
No.	Drug Class	Colour	Examples
1.	Induction Agents	Process Yellow C (RGB 255.255.0)	<p>(i) <b>Propofol</b></p>  <p>(ii) <b>Ketamine</b></p>  <p>(iii) <b>Thiopentone</b></p>  <p>(iv) <b>Etomidate</b></p>  <p>(v) <b>Dexmedetomidine</b></p> 
2.	Tranquilizers (Hypnotics)	Orange 151 (RGB 255.102.0)	<p>(i) <b>Diazepam</b></p>  <p>(ii) <b>Lorazepam</b></p> 



No.	Drug Class	Colour	Examples
			<p>(iii) <b>Midazolam</b></p> 
3.	Hypnotic antagonists	Orange 151 (RGB 255.102.0) with white diagonal stripes	<p>(i) <b>Flumazenil</b></p> 
4.	Muscle Relaxants	Fluorescent Red 805 (RGB 253.121.86)	<p>(a) Depolarising</p> <p>(i) <b>Suxamethonium</b></p>  <p>(b) Non-depolarising</p> <p>(ii) <b>Vecuronium</b></p>  <p>(iii) <b>Atracurium</b></p>  <p>(iv) <b>Pancuronium</b></p>  <p>(v) <b>Rocuronium</b></p> 

No.	Drug Class	Colour	Examples
5.	Relaxant Antagonists	Fluorescent Red 805 (RGB 253.121.86) with white diagonal stripes	<p>(i) Neostigmine</p>  <p>(ii) Pyridostigmine</p> 
6.	Narcotics	Blue 297 (RGB 233.299.227)	<p>(i) Morphine</p>  <p>(ii) Fentanyl</p>  <p>(iii) Remifentanyl</p> 
7.	Narcotic Antagonists	Blue 297 (RGB 233.299.227) with White Diagonal Stripes	<p>(i) Naloxone</p> 
8.	Anti-cholinergic Agents	Green 367 (RGB 163.217.99)	<p>(i) Atropine</p>  <p>(ii) Glycopyrrolate</p> 

No.	Drug Class	Colour	Examples
9.	Vasopressors & Inotropes	Violet 256 (RGB 222.191.217)	<p>(a) Vasopressors</p> <p>(i) Adrenaline</p>  <p>(ii) Noradrenaline</p>  <p>(iii) Ephedrine</p>  <p>(iv) Phenylephrine</p>  <p>(b) Inotropes</p> <p>(v) Dopamine</p>  <p>(vi) Dobutamine</p> 
10.	Hypotensive Agents	Violet 256 (RGB 222.191.217) with white diagonal stripes	<p>(i) Nitroprusside</p> 

No.	Drug Class	Colour	Examples
			<p>(ii) <b>Nitroglycerine</b></p>  <p>(iii) <b>Labetalol</b></p>  <p>(iv) <b>Esmolol</b></p> 
11.	Local Anesthetics	Grey 401 (RGB 194.184.171)	<p>(i) <b>Lignocaine</b></p>  <p>(ii) <b>Bupivacaine</b></p>  <p>(iii) <b>Ropivacaine</b></p> 
12.	Combination drugs		<p>(i) <b>Midazolam + Morphine</b></p>  <p>(ii) <b>Midazolam + Fentanyl</b></p> 



## APPENDIX 2



LABELS TO BE USED IN OTHER UNITS WITH CRITICALLY ILL PATIENTS

No.	Drug Class	Colour	Examples																																								
1.	Induction Agents	Process Yellow C (RGB 255.255.0)	<p>(i) <b>Propofol</b></p> <table border="1" data-bbox="806 397 1127 589"> <tr><td colspan="2">Propofol</td></tr> <tr><td colspan="2">Dilution: ____ mg in ____ mL ____ (Conc.: _____ mg/mL)</td></tr> <tr><td>Date:</td><td>Time:</td></tr> <tr><td>Name:</td><td>R/N:</td></tr> <tr><td>Prepared by:</td><td>Checked by:</td></tr> </table> <p>(ii) <b>Ketamine</b></p> <table border="1" data-bbox="806 693 1127 884"> <tr><td colspan="2">Ketamine</td></tr> <tr><td colspan="2">Dilution: ____ mg in ____ mL ____ (Conc.: _____ mg/mL)</td></tr> <tr><td>Date:</td><td>Time:</td></tr> <tr><td>Name:</td><td>R/N:</td></tr> <tr><td>Prepared by:</td><td>Checked by:</td></tr> </table> <p>(iii) <b>Thiopentone</b></p> <table border="1" data-bbox="806 998 1127 1190"> <tr><td colspan="2">Thiopentone</td></tr> <tr><td colspan="2">Dilution: ____ mg in ____ mL ____ (Conc.: _____ mg/mL)</td></tr> <tr><td>Date:</td><td>Time:</td></tr> <tr><td>Name:</td><td>R/N:</td></tr> <tr><td>Prepared by:</td><td>Checked by:</td></tr> </table> <p>(iv) <b>Etomidate</b></p> <table border="1" data-bbox="806 1296 1127 1487"> <tr><td colspan="2">Etomidate</td></tr> <tr><td colspan="2">Dilution: ____ mg in ____ mL ____ (Conc.: _____ mg/mL)</td></tr> <tr><td>Date:</td><td>Time:</td></tr> <tr><td>Name:</td><td>R/N:</td></tr> <tr><td>Prepared by:</td><td>Checked by:</td></tr> </table>	Propofol		Dilution: ____ mg in ____ mL ____ (Conc.: _____ mg/mL)		Date:	Time:	Name:	R/N:	Prepared by:	Checked by:	Ketamine		Dilution: ____ mg in ____ mL ____ (Conc.: _____ mg/mL)		Date:	Time:	Name:	R/N:	Prepared by:	Checked by:	Thiopentone		Dilution: ____ mg in ____ mL ____ (Conc.: _____ mg/mL)		Date:	Time:	Name:	R/N:	Prepared by:	Checked by:	Etomidate		Dilution: ____ mg in ____ mL ____ (Conc.: _____ mg/mL)		Date:	Time:	Name:	R/N:	Prepared by:	Checked by:
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No.	Drug Class	Colour	Examples																																				
			<p>(v) <b>Dexmedetomidine</b></p> <table border="1" data-bbox="816 338 1136 531"> <tr> <td colspan="2" style="background-color: #ffff00;"><b>Dexmedetomidine</b></td> </tr> <tr> <td colspan="2">Dilution: _____ mg in _____ mL _____</td> </tr> <tr> <td colspan="2">(Conc.: _____ mg/mL)</td> </tr> <tr> <td>Date: _____</td> <td>Time: _____</td> </tr> <tr> <td>Name: _____</td> <td>R/N: _____</td> </tr> <tr> <td>Prepared by: _____</td> <td>Checked by: _____</td> </tr> </table>	<b>Dexmedetomidine</b>		Dilution: _____ mg in _____ mL _____		(Conc.: _____ mg/mL)		Date: _____	Time: _____	Name: _____	R/N: _____	Prepared by: _____	Checked by: _____																								
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Prepared by: _____	Checked by: _____																																						
2.	Tranquilizers (Hypnotics)	Orange 151 (RGB 255.102.0)	<p>(i) <b>Diazepam</b></p> <table border="1" data-bbox="816 637 1136 830"> <tr> <td colspan="2" style="background-color: #ffa500;"><b>Diazepam</b></td> </tr> <tr> <td colspan="2">Dilution: _____ mg in _____ mL _____</td> </tr> <tr> <td colspan="2">(Conc.: _____ mg/mL)</td> </tr> <tr> <td>Date: _____</td> <td>Time: _____</td> </tr> <tr> <td>Name: _____</td> <td>R/N: _____</td> </tr> <tr> <td>Prepared by: _____</td> <td>Checked by: _____</td> </tr> </table> <p>(ii) <b>Lorazepam</b></p> <table border="1" data-bbox="816 937 1136 1130"> <tr> <td colspan="2" style="background-color: #ffa500;"><b>Lorazepam</b></td> </tr> <tr> <td colspan="2">Dilution: _____ mg in _____ mL _____</td> </tr> <tr> <td colspan="2">(Conc.: _____ mg/mL)</td> </tr> <tr> <td>Date: _____</td> <td>Time: _____</td> </tr> <tr> <td>Name: _____</td> <td>R/N: _____</td> </tr> <tr> <td>Prepared by: _____</td> <td>Checked by: _____</td> </tr> </table> <p>(iii) <b>Midazolam</b></p> <table border="1" data-bbox="816 1236 1136 1429"> <tr> <td colspan="2" style="background-color: #ffa500;"><b>Midazolam</b></td> </tr> <tr> <td colspan="2">Dilution: _____ mg in _____ mL _____</td> </tr> <tr> <td colspan="2">(Conc.: _____ mg/mL)</td> </tr> <tr> <td>Date: _____</td> <td>Time: _____</td> </tr> <tr> <td>Name: _____</td> <td>R/N: _____</td> </tr> <tr> <td>Prepared by: _____</td> <td>Checked by: _____</td> </tr> </table>	<b>Diazepam</b>		Dilution: _____ mg in _____ mL _____		(Conc.: _____ mg/mL)		Date: _____	Time: _____	Name: _____	R/N: _____	Prepared by: _____	Checked by: _____	<b>Lorazepam</b>		Dilution: _____ mg in _____ mL _____		(Conc.: _____ mg/mL)		Date: _____	Time: _____	Name: _____	R/N: _____	Prepared by: _____	Checked by: _____	<b>Midazolam</b>		Dilution: _____ mg in _____ mL _____		(Conc.: _____ mg/mL)		Date: _____	Time: _____	Name: _____	R/N: _____	Prepared by: _____	Checked by: _____
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Prepared by: _____	Checked by: _____																																						
<b>Midazolam</b>																																							
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(Conc.: _____ mg/mL)																																							
Date: _____	Time: _____																																						
Name: _____	R/N: _____																																						
Prepared by: _____	Checked by: _____																																						

No.	Drug Class	Colour	Examples																																				
3.	Hypnotic antagonists	Orange 151 (RGB 255.102.0) with white diagonal stripes	<p>(i) <b>Flumazenil</b></p> <div data-bbox="787 334 1109 527" style="border: 1px solid black; padding: 5px;"> <table style="width: 100%; border-collapse: collapse;"> <tr style="background-color: #f4a460;"> <td colspan="2" style="padding: 2px;"><b>Flumazenil</b></td> </tr> <tr> <td colspan="2" style="padding: 2px;">Dilution: ____ mg in ____ mL ____</td> </tr> <tr> <td colspan="2" style="padding: 2px;">(Conc.: _____mg/mL)</td> </tr> <tr> <td style="padding: 2px;">Date: _____</td> <td style="padding: 2px;">Time: _____</td> </tr> <tr> <td style="padding: 2px;">Name: _____</td> <td style="padding: 2px;">R/N: _____</td> </tr> <tr> <td style="padding: 2px;">Prepared by: _____</td> <td style="padding: 2px;">Checked by: _____</td> </tr> </table> </div>	<b>Flumazenil</b>		Dilution: ____ mg in ____ mL ____		(Conc.: _____mg/mL)		Date: _____	Time: _____	Name: _____	R/N: _____	Prepared by: _____	Checked by: _____																								
<b>Flumazenil</b>																																							
Dilution: ____ mg in ____ mL ____																																							
(Conc.: _____mg/mL)																																							
Date: _____	Time: _____																																						
Name: _____	R/N: _____																																						
Prepared by: _____	Checked by: _____																																						
4.	Muscle Relaxants	Fluorescent Red 805 (RGB 253.121.86)	<p>(c) <b>Depolarising</b></p> <p>(i) <b>Suxamethonium</b></p> <div data-bbox="787 672 1109 865" style="border: 1px solid black; padding: 5px;"> <table style="width: 100%; border-collapse: collapse;"> <tr style="background-color: #f4a460;"> <td colspan="2" style="padding: 2px;"><b>Suxamethonium</b></td> </tr> <tr> <td colspan="2" style="padding: 2px;">Dilution: ____ mg in ____ mL ____</td> </tr> <tr> <td colspan="2" style="padding: 2px;">(Conc.: _____mg/mL)</td> </tr> <tr> <td style="padding: 2px;">Date: _____</td> <td style="padding: 2px;">Time: _____</td> </tr> <tr> <td style="padding: 2px;">Name: _____</td> <td style="padding: 2px;">R/N: _____</td> </tr> <tr> <td style="padding: 2px;">Prepared by: _____</td> <td style="padding: 2px;">Checked by: _____</td> </tr> </table> </div> <p>(d) <b>Non-depolarising</b></p> <p>(ii) <b>Vecuronium</b></p> <div data-bbox="787 1004 1109 1197" style="border: 1px solid black; padding: 5px;"> <table style="width: 100%; border-collapse: collapse;"> <tr style="background-color: #f4a460;"> <td colspan="2" style="padding: 2px;"><b>VEcuronium</b></td> </tr> <tr> <td colspan="2" style="padding: 2px;">Dilution: ____ mg in ____ mL ____</td> </tr> <tr> <td colspan="2" style="padding: 2px;">(Conc.: _____mg/mL)</td> </tr> <tr> <td style="padding: 2px;">Date: _____</td> <td style="padding: 2px;">Time: _____</td> </tr> <tr> <td style="padding: 2px;">Name: _____</td> <td style="padding: 2px;">R/N: _____</td> </tr> <tr> <td style="padding: 2px;">Prepared by: _____</td> <td style="padding: 2px;">Checked by: _____</td> </tr> </table> </div> <p>(iii) <b>Atracurium</b></p> <div data-bbox="787 1306 1109 1499" style="border: 1px solid black; padding: 5px;"> <table style="width: 100%; border-collapse: collapse;"> <tr style="background-color: #f4a460;"> <td colspan="2" style="padding: 2px;"><b>ATRAcurium</b></td> </tr> <tr> <td colspan="2" style="padding: 2px;">Dilution: ____ mg in ____ mL ____</td> </tr> <tr> <td colspan="2" style="padding: 2px;">(Conc.: _____mg/mL)</td> </tr> <tr> <td style="padding: 2px;">Date: _____</td> <td style="padding: 2px;">Time: _____</td> </tr> <tr> <td style="padding: 2px;">Name: _____</td> <td style="padding: 2px;">R/N: _____</td> </tr> <tr> <td style="padding: 2px;">Prepared by: _____</td> <td style="padding: 2px;">Checked by: _____</td> </tr> </table> </div>	<b>Suxamethonium</b>		Dilution: ____ mg in ____ mL ____		(Conc.: _____mg/mL)		Date: _____	Time: _____	Name: _____	R/N: _____	Prepared by: _____	Checked by: _____	<b>VEcuronium</b>		Dilution: ____ mg in ____ mL ____		(Conc.: _____mg/mL)		Date: _____	Time: _____	Name: _____	R/N: _____	Prepared by: _____	Checked by: _____	<b>ATRAcurium</b>		Dilution: ____ mg in ____ mL ____		(Conc.: _____mg/mL)		Date: _____	Time: _____	Name: _____	R/N: _____	Prepared by: _____	Checked by: _____
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No.	Drug Class	Colour	Examples																				
			<p><b>(iv) Pancuronium</b></p> <table border="1" data-bbox="769 340 1092 531"> <tr> <td colspan="2"><b>PANcuronium</b></td> </tr> <tr> <td colspan="2">Dilution: ____ mg in ____ mL ____ (Conc.: ____ mg/mL)</td> </tr> <tr> <td>Date:</td> <td>Time:</td> </tr> <tr> <td>Name:</td> <td>R/N:</td> </tr> <tr> <td>Prepared by:</td> <td>Checked by:</td> </tr> </table> <p><b>(v) Rocuronium</b></p> <table border="1" data-bbox="769 639 1092 830"> <tr> <td colspan="2"><b>ROcuronium</b></td> </tr> <tr> <td colspan="2">Dilution: ____ mg in ____ mL ____ (Conc.: ____ mg/mL)</td> </tr> <tr> <td>Date:</td> <td>Time:</td> </tr> <tr> <td>Name:</td> <td>R/N:</td> </tr> <tr> <td>Prepared by:</td> <td>Checked by:</td> </tr> </table>	<b>PANcuronium</b>		Dilution: ____ mg in ____ mL ____ (Conc.: ____ mg/mL)		Date:	Time:	Name:	R/N:	Prepared by:	Checked by:	<b>ROcuronium</b>		Dilution: ____ mg in ____ mL ____ (Conc.: ____ mg/mL)		Date:	Time:	Name:	R/N:	Prepared by:	Checked by:
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Name:	R/N:																						
Prepared by:	Checked by:																						
5.	Relaxant Antagonists	Fluorescent Red 805 (RGB 253.121.86) with white diagonal stripes	<p><b>(i) Neostigmine</b></p> <table border="1" data-bbox="769 975 1092 1166"> <tr> <td colspan="2"><b>NEostigmine</b></td> </tr> <tr> <td colspan="2">Dilution: ____ mg in ____ mL ____ (Conc.: ____ mg/mL)</td> </tr> <tr> <td>Date:</td> <td>Time:</td> </tr> <tr> <td>Name:</td> <td>R/N:</td> </tr> <tr> <td>Prepared by:</td> <td>Checked by:</td> </tr> </table> <p><b>(ii) Pyridostigmine</b></p> <table border="1" data-bbox="769 1275 1092 1466"> <tr> <td colspan="2"><b>PYRIDostigmine</b></td> </tr> <tr> <td colspan="2">Dilution: ____ mg in ____ mL ____ (Conc.: ____ mg/mL)</td> </tr> <tr> <td>Date:</td> <td>Time:</td> </tr> <tr> <td>Name:</td> <td>R/N:</td> </tr> <tr> <td>Prepared by:</td> <td>Checked by:</td> </tr> </table>	<b>NEostigmine</b>		Dilution: ____ mg in ____ mL ____ (Conc.: ____ mg/mL)		Date:	Time:	Name:	R/N:	Prepared by:	Checked by:	<b>PYRIDostigmine</b>		Dilution: ____ mg in ____ mL ____ (Conc.: ____ mg/mL)		Date:	Time:	Name:	R/N:	Prepared by:	Checked by:
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Dilution: ____ mg in ____ mL ____ (Conc.: ____ mg/mL)																							
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Name:	R/N:																						
Prepared by:	Checked by:																						

No.	Drug Class	Colour	Examples																														
6.	Narcotics	Blue 297 (RGB 233.299.227)	<p>(i) <b>Morphine</b></p> <table border="1" data-bbox="779 349 1101 539"> <tr><td colspan="2">Morphine</td></tr> <tr><td colspan="2">Dilution: ____ mg in ____ mL ____ (Conc.: ____ mg/mL)</td></tr> <tr><td>Date:</td><td>Time:</td></tr> <tr><td>Name:</td><td>R/N:</td></tr> <tr><td>Prepared by:</td><td>Checked by:</td></tr> </table> <p>(ii) <b>Fentanyl</b></p> <table border="1" data-bbox="779 651 1101 840"> <tr><td colspan="2">Fentanyl</td></tr> <tr><td colspan="2">Dilution: ____ mg in ____ mL ____ (Conc.: ____ mcg/mL)</td></tr> <tr><td>Date:</td><td>Time:</td></tr> <tr><td>Name:</td><td>R/N:</td></tr> <tr><td>Prepared by:</td><td>Checked by:</td></tr> </table> <p>(iii) <b>Remifentanyl</b></p> <table border="1" data-bbox="779 952 1101 1141"> <tr><td colspan="2">Remifentanyl</td></tr> <tr><td colspan="2">Dilution: ____ mg in ____ mL ____ (Conc.: ____ mg/mL)</td></tr> <tr><td>Date:</td><td>Time:</td></tr> <tr><td>Name:</td><td>R/N:</td></tr> <tr><td>Prepared by:</td><td>Checked by:</td></tr> </table>	Morphine		Dilution: ____ mg in ____ mL ____ (Conc.: ____ mg/mL)		Date:	Time:	Name:	R/N:	Prepared by:	Checked by:	Fentanyl		Dilution: ____ mg in ____ mL ____ (Conc.: ____ mcg/mL)		Date:	Time:	Name:	R/N:	Prepared by:	Checked by:	Remifentanyl		Dilution: ____ mg in ____ mL ____ (Conc.: ____ mg/mL)		Date:	Time:	Name:	R/N:	Prepared by:	Checked by:
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Prepared by:	Checked by:																																
7.	Narcotic Antagonists	Blue 297 (RGB 233.299.227) with White Diagonal Stripes	<p>(i) <b>Naloxone</b></p> <table border="1" data-bbox="779 1253 1101 1443"> <tr><td colspan="2">Naloxone</td></tr> <tr><td colspan="2">Dilution: ____ mg in ____ mL ____ (Conc.: ____ mg/mL)</td></tr> <tr><td>Date:</td><td>Time:</td></tr> <tr><td>Name:</td><td>R/N:</td></tr> <tr><td>Prepared by:</td><td>Checked by:</td></tr> </table>	Naloxone		Dilution: ____ mg in ____ mL ____ (Conc.: ____ mg/mL)		Date:	Time:	Name:	R/N:	Prepared by:	Checked by:																				
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Dilution: ____ mg in ____ mL ____ (Conc.: ____ mg/mL)																																	
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Prepared by:	Checked by:																																

No.	Drug Class	Colour	Examples																				
8.	Anti-cholinergic Agents	Green 367 (RGB 163.217.99)	<p>(i) <b>Atropine</b></p> <table border="1" data-bbox="772 340 1093 531"> <tr><td colspan="2">Atropine</td></tr> <tr><td colspan="2">Dilution: ___ mg in ___ mL ___ (Conc.: _____ mg/mL)</td></tr> <tr><td>Date:</td><td>Time:</td></tr> <tr><td>Name:</td><td>R/N:</td></tr> <tr><td>Prepared by:</td><td>Checked by:</td></tr> </table> <p>(ii) <b>Glycopyrrolate</b></p> <table border="1" data-bbox="772 639 1093 830"> <tr><td colspan="2">Glycopyrrolate</td></tr> <tr><td colspan="2">Dilution: ___ mg in ___ mL ___ (Conc.: _____ mcg/mL)</td></tr> <tr><td>Date:</td><td>Time:</td></tr> <tr><td>Name:</td><td>R/N:</td></tr> <tr><td>Prepared by:</td><td>Checked by:</td></tr> </table>	Atropine		Dilution: ___ mg in ___ mL ___ (Conc.: _____ mg/mL)		Date:	Time:	Name:	R/N:	Prepared by:	Checked by:	Glycopyrrolate		Dilution: ___ mg in ___ mL ___ (Conc.: _____ mcg/mL)		Date:	Time:	Name:	R/N:	Prepared by:	Checked by:
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Dilution: ___ mg in ___ mL ___ (Conc.: _____ mg/mL)																							
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Dilution: ___ mg in ___ mL ___ (Conc.: _____ mcg/mL)																							
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Prepared by:	Checked by:																						
9.	Vasopressors & Inotropes	Violet 256 (RGB 222.191.217)	<p>(i) <b>Adrenaline</b></p> <table border="1" data-bbox="772 944 1093 1136"> <tr><td colspan="2">Adrenaline</td></tr> <tr><td colspan="2">Dilution: ___ mg in ___ mL ___ (Conc.: _____ mg/mL)</td></tr> <tr><td>Date:</td><td>Time:</td></tr> <tr><td>Name:</td><td>R/N:</td></tr> <tr><td>Prepared by:</td><td>Checked by:</td></tr> </table> <p>(ii) <b>Noradrenaline</b></p> <table border="1" data-bbox="772 1244 1093 1435"> <tr><td colspan="2">Noradrenaline</td></tr> <tr><td colspan="2">Dilution: ___ mg in ___ mL ___ (Conc.: _____ mg/mL)</td></tr> <tr><td>Date:</td><td>Time:</td></tr> <tr><td>Name:</td><td>R/N:</td></tr> <tr><td>Prepared by:</td><td>Checked by:</td></tr> </table>	Adrenaline		Dilution: ___ mg in ___ mL ___ (Conc.: _____ mg/mL)		Date:	Time:	Name:	R/N:	Prepared by:	Checked by:	Noradrenaline		Dilution: ___ mg in ___ mL ___ (Conc.: _____ mg/mL)		Date:	Time:	Name:	R/N:	Prepared by:	Checked by:
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Dilution: ___ mg in ___ mL ___ (Conc.: _____ mg/mL)																							
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Prepared by:	Checked by:																						
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No.	Drug Class	Colour	Examples																																								
			<p><b>(iii) Ephedrine</b></p> <table border="1" data-bbox="779 340 1100 533"> <tr> <td colspan="2"><b>Ephedrine</b></td> </tr> <tr> <td colspan="2">Dilution: ____ mg in ____ mL ____ (Conc.: ____ mg/mL)</td> </tr> <tr> <td>Date:</td> <td>Time:</td> </tr> <tr> <td>Name:</td> <td>R/N:</td> </tr> <tr> <td>Prepared by:</td> <td>Checked by:</td> </tr> </table> <p><b>(iv) Phenylephrine</b></p> <table border="1" data-bbox="779 639 1100 832"> <tr> <td colspan="2"><b>Phenylephrine</b></td> </tr> <tr> <td colspan="2">Dilution: ____ mg in ____ mL ____ (Conc.: ____ mg/mL)</td> </tr> <tr> <td>Date:</td> <td>Time:</td> </tr> <tr> <td>Name:</td> <td>R/N:</td> </tr> <tr> <td>Prepared by:</td> <td>Checked by:</td> </tr> </table> <p><b>(v) Dopamine</b></p> <table border="1" data-bbox="779 938 1100 1132"> <tr> <td colspan="2"><b>DOPamine</b></td> </tr> <tr> <td colspan="2">Dilution: ____ mg in ____ mL ____ (Conc.: ____ mg/mL)</td> </tr> <tr> <td>Date:</td> <td>Time:</td> </tr> <tr> <td>Name:</td> <td>R/N:</td> </tr> <tr> <td>Prepared by:</td> <td>Checked by:</td> </tr> </table> <p><b>(vi) Dobutamine</b></p> <table border="1" data-bbox="779 1209 1100 1402"> <tr> <td colspan="2"><b>DOBUTamine</b></td> </tr> <tr> <td colspan="2">Dilution: ____ mg in ____ mL ____ (Conc.: ____ mg/mL)</td> </tr> <tr> <td>Date:</td> <td>Time:</td> </tr> <tr> <td>Name:</td> <td>R/N:</td> </tr> <tr> <td>Prepared by:</td> <td>Checked by:</td> </tr> </table>	<b>Ephedrine</b>		Dilution: ____ mg in ____ mL ____ (Conc.: ____ mg/mL)		Date:	Time:	Name:	R/N:	Prepared by:	Checked by:	<b>Phenylephrine</b>		Dilution: ____ mg in ____ mL ____ (Conc.: ____ mg/mL)		Date:	Time:	Name:	R/N:	Prepared by:	Checked by:	<b>DOPamine</b>		Dilution: ____ mg in ____ mL ____ (Conc.: ____ mg/mL)		Date:	Time:	Name:	R/N:	Prepared by:	Checked by:	<b>DOBUTamine</b>		Dilution: ____ mg in ____ mL ____ (Conc.: ____ mg/mL)		Date:	Time:	Name:	R/N:	Prepared by:	Checked by:
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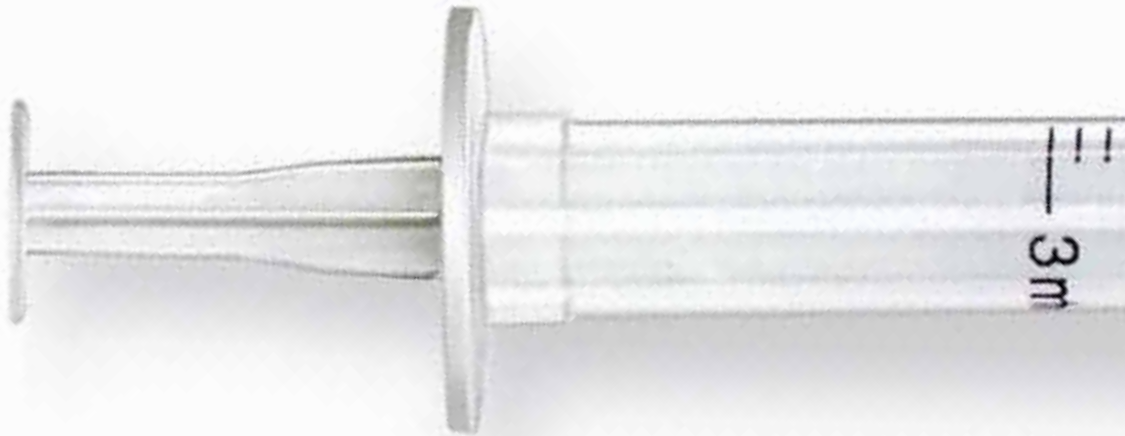
No.	Drug Class	Colour	Examples
10.	Hypotensive Agents	Violet 256 (RGB 222.191.217) with white diagonal stripes	<p>(i) <b>Nitroprusside</b></p> <div data-bbox="773 343 1096 537" style="border: 1px solid black; padding: 5px;"> <p>nitroPRUSSIDe</p> <p>Dilution: ____ mg in ____ mL ____ (Conc.: ____ mg/mL)</p> <p>Date: _____ Time: _____</p> <p>Name: _____ R/N: _____</p> <p>Prepared by: _____ Checked by: _____</p> </div> <p>(ii) <b>Nitroglycerine</b></p> <div data-bbox="773 645 1096 838" style="border: 1px solid black; padding: 5px;"> <p>nitroGLYCERINe</p> <p>Dilution: ____ mg in ____ mL ____ (Conc.: ____ mg/mL)</p> <p>Date: _____ Time: _____</p> <p>Name: _____ R/N: _____</p> <p>Prepared by: _____ Checked by: _____</p> </div> <p>(iii) <b>Labetalol</b></p> <div data-bbox="773 946 1096 1139" style="border: 1px solid black; padding: 5px;"> <p>Labetalol</p> <p>Dilution: ____ mg in ____ mL ____ (Conc.: ____ mg/mL)</p> <p>Date: _____ Time: _____</p> <p>Name: _____ R/N: _____</p> <p>Prepared by: _____ Checked by: _____</p> </div> <p>(iv) <b>Esmolol</b></p> <div data-bbox="773 1248 1096 1441" style="border: 1px solid black; padding: 5px;"> <p>Esmolol</p> <p>Dilution: ____ mg in ____ mL ____ (Conc.: ____ mg/mL)</p> <p>Date: _____ Time: _____</p> <p>Name: _____ R/N: _____</p> <p>Prepared by: _____ Checked by: _____</p> </div>

No.	Drug Class	Colour	Examples																																				
11.	Local Anesthetics	Grey 401 (RGB 194.184.171)	<p>(i) <b>Lignocaine</b></p> <table border="1" data-bbox="783 345 1114 542"> <tr> <td colspan="2">LIGNOcaine</td> </tr> <tr> <td colspan="2">Dilution: ___ mg in ___ mL ___</td> </tr> <tr> <td colspan="2">(Conc.: _____mg/mL)</td> </tr> <tr> <td>Date:</td> <td>Time:</td> </tr> <tr> <td>Name:</td> <td>R/N:</td> </tr> <tr> <td>Prepared by:</td> <td>Checked by:</td> </tr> </table> <p>(ii) <b>Bupivacaine</b></p> <table border="1" data-bbox="783 658 1114 855"> <tr> <td colspan="2">BUPIvacaine</td> </tr> <tr> <td colspan="2">Dilution: ___ mg in ___ mL ___</td> </tr> <tr> <td colspan="2">(Conc.: _____mg/mL)</td> </tr> <tr> <td>Date:</td> <td>Time:</td> </tr> <tr> <td>Name:</td> <td>R/N:</td> </tr> <tr> <td>Prepared by:</td> <td>Checked by:</td> </tr> </table> <p>(iii) <b>Ropivacaine</b></p> <table border="1" data-bbox="783 967 1114 1164"> <tr> <td colspan="2">ROPIvacaine</td> </tr> <tr> <td colspan="2">Dilution: ___ mg in ___ mL ___</td> </tr> <tr> <td colspan="2">(Conc.: _____mg/mL)</td> </tr> <tr> <td>Date:</td> <td>Time:</td> </tr> <tr> <td>Name:</td> <td>R/N:</td> </tr> <tr> <td>Prepared by:</td> <td>Checked by:</td> </tr> </table>	LIGNOcaine		Dilution: ___ mg in ___ mL ___		(Conc.: _____mg/mL)		Date:	Time:	Name:	R/N:	Prepared by:	Checked by:	BUPIvacaine		Dilution: ___ mg in ___ mL ___		(Conc.: _____mg/mL)		Date:	Time:	Name:	R/N:	Prepared by:	Checked by:	ROPIvacaine		Dilution: ___ mg in ___ mL ___		(Conc.: _____mg/mL)		Date:	Time:	Name:	R/N:	Prepared by:	Checked by:
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Prepared by:	Checked by:																																						
12.	Combination drugs		<p>(i) <b>Midazolam + Morphine</b></p> <table border="1" data-bbox="783 1278 1114 1476"> <tr> <td colspan="2">Midazolam + Morphine</td> </tr> <tr> <td colspan="2">Dilution: ___ mg in ___ mL ___</td> </tr> <tr> <td colspan="2">(Conc.: _____mg/mL)</td> </tr> <tr> <td>Date:</td> <td>Time:</td> </tr> <tr> <td>Name:</td> <td>R/N:</td> </tr> <tr> <td>Prepared by:</td> <td>Checked by:</td> </tr> </table>	Midazolam + Morphine		Dilution: ___ mg in ___ mL ___		(Conc.: _____mg/mL)		Date:	Time:	Name:	R/N:	Prepared by:	Checked by:																								
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Prepared by:	Checked by:																																						



## Guideline on Syringe Labelling In Critical Care Areas

No.	Drug Class	Colour	Examples												
			<p><b>(ii) Midazolam + Fentanyl</b></p> <table border="1" data-bbox="777 341 1098 533"> <tr> <td colspan="2">Midazolam + Fentanyl</td> </tr> <tr> <td colspan="2">Dilution: _____ mg in _____ mL _____</td> </tr> <tr> <td colspan="2">(Conc.: _____ mg/mL)</td> </tr> <tr> <td>Date:</td> <td>Time:</td> </tr> <tr> <td>Name:</td> <td>R/N:</td> </tr> <tr> <td>Prepared by:</td> <td>Checked by:</td> </tr> </table>	Midazolam + Fentanyl		Dilution: _____ mg in _____ mL _____		(Conc.: _____ mg/mL)		Date:	Time:	Name:	R/N:	Prepared by:	Checked by:
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