

# Revisions to the Paediatric Rapid Detection and Response Observation Charts

## FACT SHEET

### BACKGROUND

The purpose of Rapid Detection and Response (RDR) Paediatric Observation Charts is to assist clinicians to recognise early signs of physical deterioration, and take appropriate action, including triggering a review by other clinicians. In some cases, this will need to be a Medical Emergency Response (MER / MET / CodeBlue).

RDR charts were first introduced to SA Health in July 2012. Adult RDR charts were reviewed in 2020 and the suite of Paediatric charts have now been revised in 2022.

Feedback was received from all Local Health Networks (LHN's) using the paediatric charts and the review process was assisted by a workgroup of the Child and Adolescent Health Community of Practice (CAH-CoP). All feedback provided by LHNs, individuals and small expert groups has been considered and used to inform the revised version of the paediatric charts.

### FORM REVISIONS

The following information outlines the revisions made to each section of the chart.

#### 1. Layout / structure of the forms

Sections moved for improved usability and inclusion of additional information and to align more closely with the layout of the adult RDR charts.

- > Modifications table now on page 3, opposite where the observations are documented, rather than having to turn the chart over.
- > Title for charts – Under 3 months now 0-3 months. 12+ years now 12-17 years

#### 2. Local / state guidelines

Refer to state guidelines and/or local procedures for guidance on:

- > Frequency of observations and who can alter these
- > Modifications - level of doctor who can write/alter them
- > Tools used for assessing pain score. Pain scales not included in charts – SA Health website for FLACC scale or Faces scale Acute Pain Management and Opioid Safety in Children (sahealth.sa.gov.au) - [Paediatric Clinical Practice Guidelines | SA Health](#)
- > Tools for assessing Level of consciousness – use AVPU assessment tool OR Level of sedation – use Sedation Score descriptor at Page 4 (Section H)

- > Documenting Blood Pressure 95th percentile, BP cuff size, mid arm circumference, oxygen flow rate, oxygen delivery method and oximeter probe change

### 3. General instructions - Section A: Page 1

Record the Chart number, Mid Arm circumference (cm), Height (cm) and Weight (in kilograms) at the top of page 1.

General Instructions include:

- > the minimum set of observations and additional observations to be taken as indicated.
- > how to record observations in Section C
- > information on other observations – systolic blood pressure

Chart Number:	Mid Arm circumference:	Height:	Weight:
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**SECTION A - GENERAL INSTRUCTIONS**

**Minimum set of observations – Write in Section C**

Take observations on child (at rest and record) on admission:

- Respiratory rate, oxygen saturation SpO<sub>2</sub>, blood pressure, pulse rate, temperature, pain score, level of consciousness
- Other observations as indicated including BGL, O<sub>2</sub> Flow rate, O<sub>2</sub> delivery method, capillary refill and level of sedation

**Other Observations**

Level of consciousness should be documented using the AVPU scale except for children receiving sedation and/or opioids, where a level of sedation score should be recorded in place of the level of consciousness.

Select pain assessment tool appropriate for the age, developmental level and clinical state of the child. Refer to state and/or local guidelines for pain assessment tools.

For systolic blood pressure use the symbol indicated on the graphic chart. Use the right arm (unless contraindicated) to measure blood pressure. Document cuff size and the 95th percentile for this baby/child (at Section C). Refer to Section D (Modifications) for the blood pressure limits that trigger MDT review for this baby/child.

### 4. Assessment of respiratory distress - Section B: Page 1

This section is now on page 1 and each assessment category is clearly coloured to match the relevant escalation response.

- > Respiratory pattern has been replaced with 2 categories 'Colour' and 'Apnoea'
- > Now 6 assessments used with Respiratory Rate to assess respiratory distress
- > 'Work of breathing' title replaces 'Accessory muscle use'
- > Assessment categories coloured to match the relevant escalation response
- > Other changes – airway – no secretions just stridor, work of breathing – chest retraction, behaviour/ feeding – crying, no tube feeds, Apnoea and Oxygen - more detail, hypoxaemia defined as SpO<sub>2</sub><90% on Oxygen, HHHFNO or CPAP - purple zone

<b>SECTION B - ASSESSMENT OF RESPIRATORY DISTRESS</b>			
Used together with Respiratory Rate to provide further information about the airway and breathing assessment. Not all features may be present. Escalate as indicated.			
	MILD	MODERATE	SEVERE
<b>Airway</b>	Stridor only with exertion / crying	Some stridor at rest	Biphasic or increasing severity of stridor at rest
<b>Work of breathing</b>	Mild chest retraction (intercostal and/or suprasternal recession)	Moderate chest retraction (moderate intercostal and/or suprasternal recession) Tracheal tug / head bob / nasal flaring may be present	Severe chest retraction (marked intercostal, suprasternal and sternal recession) Tracheal tug / head bob / nasal flaring Grunting / gasping
<b>Colour</b>	Pink	Pallor	Dusky, mottled, cyanotic, extreme pallor
<b>Behaviour / feeding</b>	Normal behaviour / interactive No difficulty feeding Talks in sentences Loud cry	Intermittent irritability / difficult to console / more tired than usual Difficulty feeding Some difficulty talking (words only)	Agitated / confused or lethargic / looks exhausted Refuses / unable to feed Unable to talk or cry (too breathless)
<b>Apnoea</b>	Transient No desaturation	Transient with brief desaturations	Apnoea that is recurrent or prolonged or requires intervention
<b>Oxygen</b>	No oxygen requirement	New or increasing oxygen requirement	Hypoxaemia (SpO <sub>2</sub> < 90% on Oxygen, HHHFNO or CPAP)

## 5. Observation chart - Section C: Page 2

Changes to the parameters are highlighted with snips in each observation type below.

### Respiratory rate

- > Respiratory Rate is used together with the Assessment of Respiratory Distress (Section B)

MR Form	Previous chart Respiratory Rate	Revised chart Respiratory Rate																													
<b>MR-59B 0 - 3 months</b>	<table border="1"> <tr><td>Write ≥ 80</td></tr> <tr><td>75 - 79</td></tr> <tr><td>70 - 74</td></tr> <tr><td>65 - 69</td></tr> <tr><td>60 - 64</td></tr> <tr><td>55 - 59</td></tr> <tr><td>50 - 54</td></tr> <tr><td>45 - 49</td></tr> <tr><td>40 - 44</td></tr> <tr><td>35 - 39</td></tr> <tr><td>30 - 34</td></tr> <tr><td>25 - 29</td></tr> <tr><td>20 - 24</td></tr> <tr><td>15 - 19</td></tr> <tr><td>Write ≤ 14</td></tr> </table>	Write ≥ 80	75 - 79	70 - 74	65 - 69	60 - 64	55 - 59	50 - 54	45 - 49	40 - 44	35 - 39	30 - 34	25 - 29	20 - 24	15 - 19	Write ≤ 14	<table border="1"> <tr><td>Write ≥ 80</td></tr> <tr><td>75 - 79</td></tr> <tr><td>70 - 74</td></tr> <tr><td>65 - 69</td></tr> <tr><td>60 - 64</td></tr> <tr><td>55 - 59</td></tr> <tr><td>50 - 54</td></tr> <tr><td>45 - 49</td></tr> <tr><td>40 - 44</td></tr> <tr><td>35 - 39</td></tr> <tr><td>30 - 34</td></tr> <tr><td>25 - 29</td></tr> <tr><td>20 - 24</td></tr> <tr><td>Write ≤ 19</td></tr> </table>	Write ≥ 80	75 - 79	70 - 74	65 - 69	60 - 64	55 - 59	50 - 54	45 - 49	40 - 44	35 - 39	30 - 34	25 - 29	20 - 24	Write ≤ 19
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MR Form	Previous chart Respiratory Rate	Revised chart Respiratory Rate																										
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## Respiratory Distress

- > **No change** to graph - Refer to Assessment of Respiratory Distress - (Section B) Page 1

## Oxygen Saturation SpO2 (%)

- > **No change** to graph

## Oxygen Flow Rate, Delivery Method and Probe change

### All charts

- > Write in oxygen flow rate (L/min) and delivery method
- > Tick box added – tick to indicate oximeter probe change time

O <sub>2</sub> Flow Rate	Write value (L/min)
Delivery Method	Write
Probe Change	Tick

## Pulse Rate (beats/min)

MR Form	Previous chart Pulse rate	Revised chart Pulse rate																									
MR-59B 0 - 3 months	<table border="1"> <tr><td>Write ≥ 180</td></tr> <tr><td>170s</td></tr> <tr><td>160s</td></tr> <tr><td>150s</td></tr> <tr><td>140s</td></tr> <tr><td>130s</td></tr> <tr><td>120s</td></tr> <tr><td>110s</td></tr> <tr><td>100s</td></tr> <tr><td>90s</td></tr> <tr><td>80s</td></tr> <tr><td>70s</td></tr> <tr><td>60s</td></tr> <tr><td>Write ≤ 59</td></tr> </table>	Write ≥ 180	170s	160s	150s	140s	130s	120s	110s	100s	90s	80s	70s	60s	Write ≤ 59	<table border="1"> <tr><td>Write ≥ 190</td></tr> <tr><td>180s</td></tr> <tr><td>170s</td></tr> <tr><td>160s</td></tr> <tr><td>150s</td></tr> <tr><td>140s</td></tr> <tr><td>130s</td></tr> <tr><td>120s</td></tr> <tr><td>110s</td></tr> <tr><td>100s</td></tr> <tr><td>Write ≤ 99</td></tr> </table>	Write ≥ 190	180s	170s	160s	150s	140s	130s	120s	110s	100s	Write ≤ 99
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<p><b>Significant reduction in tolerance for bradycardia in a baby 0-12 months:</b></p> <p><b>Change of 30 - 40bpm</b></p> <p>MER Call for pulse rate:</p> <ul style="list-style-type: none"> <li>• ≤99 for 0-3month old and</li> <li>• ≤89 for 3months-1year old (was ≤59)</li> </ul>																											
MR-59C 3 months – 1 year	<table border="1"> <tr><td>Write ≥ 180</td></tr> <tr><td>170s</td></tr> <tr><td>160s</td></tr> <tr><td>150s</td></tr> <tr><td>140s</td></tr> <tr><td>130s</td></tr> <tr><td>120s</td></tr> <tr><td>110s</td></tr> <tr><td>100s</td></tr> <tr><td>90s</td></tr> <tr><td>80s</td></tr> <tr><td>70s</td></tr> <tr><td>60s</td></tr> <tr><td>Write ≤ 59</td></tr> </table>	Write ≥ 180	170s	160s	150s	140s	130s	120s	110s	100s	90s	80s	70s	60s	Write ≤ 59	<table border="1"> <tr><td>Write ≥ 180</td></tr> <tr><td>170s</td></tr> <tr><td>160s</td></tr> <tr><td>150s</td></tr> <tr><td>140s</td></tr> <tr><td>130s</td></tr> <tr><td>120s</td></tr> <tr><td>110s</td></tr> <tr><td>100s</td></tr> <tr><td>90s</td></tr> <tr><td>Write ≤ 89</td></tr> </table>	Write ≥ 180	170s	160s	150s	140s	130s	120s	110s	100s	90s	Write ≤ 89
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MR Form	Previous chart	Revised chart																										
<b>MR-59D</b> <b>1 – 4 years</b>	<table border="1"> <tr><td>Write ≥ 180</td></tr> <tr><td>170s</td></tr> <tr><td>160s</td></tr> <tr><td>150s</td></tr> <tr><td>140s</td></tr> <tr><td>130s</td></tr> <tr><td>120s</td></tr> <tr><td>110s</td></tr> <tr><td>100s</td></tr> <tr><td>90s</td></tr> <tr><td>80s</td></tr> <tr><td>70s</td></tr> <tr><td>60s</td></tr> <tr><td>Write ≤ 59</td></tr> </table>	Write ≥ 180	170s	160s	150s	140s	130s	120s	110s	100s	90s	80s	70s	60s	Write ≤ 59	<table border="1"> <tr><td>Write ≥ 170</td></tr> <tr><td>160s</td></tr> <tr><td>150s</td></tr> <tr><td>140s</td></tr> <tr><td>130s</td></tr> <tr><td>120s</td></tr> <tr><td>110s</td></tr> <tr><td>100s</td></tr> <tr><td>90s</td></tr> <tr><td>80s</td></tr> <tr><td>70s</td></tr> <tr><td>Write ≤ 69</td></tr> </table>	Write ≥ 170	160s	150s	140s	130s	120s	110s	100s	90s	80s	70s	Write ≤ 69
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<b>MR-59E</b> <b>12 – 17 years</b>	<table border="1"> <tr><td>Write ≥ 160</td></tr> <tr><td>150s</td></tr> <tr><td>140s</td></tr> <tr><td>130s</td></tr> <tr><td>120s</td></tr> <tr><td>110s</td></tr> <tr><td>100s</td></tr> <tr><td>90s</td></tr> <tr><td>80s</td></tr> <tr><td>70s</td></tr> <tr><td>60s</td></tr> <tr><td>50s</td></tr> <tr><td>40s</td></tr> <tr><td>Write ≤ 39</td></tr> </table>	Write ≥ 160	150s	140s	130s	120s	110s	100s	90s	80s	70s	60s	50s	40s	Write ≤ 39	<table border="1"> <tr><td>Write ≥ 140</td></tr> <tr><td>130s</td></tr> <tr><td>120s</td></tr> <tr><td>110s</td></tr> <tr><td>100s</td></tr> <tr><td>90s</td></tr> <tr><td>80s</td></tr> <tr><td>70s</td></tr> <tr><td>60s</td></tr> <tr><td>50s</td></tr> <tr><td>Write ≤ 49</td></tr> </table>	Write ≥ 140	130s	120s	110s	100s	90s	80s	70s	60s	50s	Write ≤ 49	
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## Capillary Refill

### All charts

- > revised to 3 seconds

MR Form	Previous chart	Revised chart						
	Capillary Refill	Capillary Refill						
All charts	<table border="1"> <tr> <td rowspan="2"><b>Capillary Refill</b> (seconds)</td> <td>Write <math>\geq 2</math> sec</td> </tr> <tr> <td>&lt; 2 sec</td> </tr> </table>	<b>Capillary Refill</b> (seconds)	Write $\geq 2$ sec	< 2 sec	<table border="1"> <tr> <td rowspan="2"><b>Capillary Refill</b></td> <td>Write <math>\geq 3</math> sec</td> </tr> <tr> <td>&lt; 3 sec</td> </tr> </table>	<b>Capillary Refill</b>	Write $\geq 3$ sec	< 3 sec
<b>Capillary Refill</b> (seconds)	Write $\geq 2$ sec							
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<b>Capillary Refill</b>	Write $\geq 3$ sec							
	< 3 sec							

## Blood Pressure (mm/Hg)

### Changes:

- > Addition of space to record mid-arm circumference and height – Section A: Page 1
- > Space to record BP cuff size and 95th percentile blood pressure for the baby/child. (This is optional additional information – refer to local procedures for recording)
- > RN/RM Review trigger for hypotension removed.
- > Parameters for all age groups.
- > No MER Call for hypertension.

Revised chart	Blood Pressure
<p><b>Blood Pressure (mmHg)</b></p> <p>95th Percentile: _____</p> <p>Cuff Size: _____</p> <p>Use systolic blood pressure as trigger for response</p>	Write $\geq 110$
	100s
	90s
	80s
	70s
	60s
	50s
	40s
	Write $\leq 39$

MR Form	Previous chart	Revised chart														
	Blood Pressure	Blood Pressure														
MR-59B 0 - 3 months	<table border="1"> <tr> <td rowspan="2"><b>Blood Pressure (mmHg)</b></td> <td>Systolic</td> </tr> <tr> <td>Diastolic</td> </tr> </table>	<b>Blood Pressure (mmHg)</b>	Systolic	Diastolic	<table border="1"> <tr> <td rowspan="8"> <p><b>Blood Pressure (mmHg)</b></p> <p>95th Percentile: _____</p> <p>Cuff Size: _____</p> <p>Use systolic blood pressure as trigger for response</p> </td> <td>Write <math>\geq 110</math></td> </tr> <tr> <td>100s</td> </tr> <tr> <td>90s</td> </tr> <tr> <td>80s</td> </tr> <tr> <td>70s</td> </tr> <tr> <td>60s</td> </tr> <tr> <td>50s</td> </tr> <tr> <td>40s</td> </tr> <tr> <td></td> <td>Write <math>\leq 39</math></td> </tr> </table>	<p><b>Blood Pressure (mmHg)</b></p> <p>95th Percentile: _____</p> <p>Cuff Size: _____</p> <p>Use systolic blood pressure as trigger for response</p>	Write $\geq 110$	100s	90s	80s	70s	60s	50s	40s		Write $\leq 39$
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	80s															
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	60s															
	50s															
	40s															
	Write $\leq 39$															

MR Form	Previous chart Blood Pressure	Revised chart Blood Pressure
MR-59C 3 months – 1 year	<p><b>Blood Pressure (mmHg)</b></p> <p>Write <math>\geq 140</math></p> <p>130s 120s 110s 100s 90s 80s 70s 60s 50s 40s</p> <p>Write <math>\leq 39</math></p> <p>Use systolic blood pressure as trigger for response</p>	<p><b>Blood Pressure (mmHg)</b></p> <p>Write <math>\geq 130</math></p> <p>120s 110s 100s 90s 80s 70s 60s 50s 40s</p> <p>Write <math>\leq 39</math></p> <p>Use systolic blood pressure as trigger for response</p>
MR-59D 1 – 4 years	<p><b>Blood Pressure (mmHg)</b></p> <p>Write <math>\geq 120</math></p> <p>110s 100s 90s 80s 70s 60s 50s 40s</p> <p>Write <math>\leq 39</math></p> <p>Use systolic blood pressure as trigger for response</p>	<p><b>Blood Pressure (mmHg)</b></p> <p>Write <math>\geq 140</math></p> <p>130s 120s 110s 100s 90s 80s 70s 60s 50s 40s</p> <p>Write <math>\leq 39</math></p> <p>Use systolic blood pressure as trigger for response</p>
MR-59E 5 – 11 years	<p><b>Blood Pressure (mmHg)</b></p> <p>Write <math>\geq 140</math></p> <p>130s 120s 110s 100s 90s 80s 70s 60s 50s 40s</p> <p>Write <math>\leq 39</math></p> <p>Use systolic blood pressure as trigger for response</p>	<p><b>Blood Pressure (mmHg)</b></p> <p>Write <math>\geq 140</math></p> <p>130s 120s 110s 100s 90s 80s 70s 60s 50s 40s</p> <p>Write <math>\leq 39</math></p> <p>Use systolic blood pressure as trigger for response</p>
MR-59F 12 – 17 years	<p><b>Blood Pressure (mmHg)</b></p> <p>Write <math>\geq 170</math></p> <p>160s 150s 140s 130s 120s 110s 100s 90s 80s 70s 60s 50s</p> <p>Write <math>\leq 49</math></p> <p>Use systolic blood pressure as trigger for response</p>	<p><b>Blood Pressure (mmHg)</b></p> <p>Write <math>\geq 150</math></p> <p>140s 130s 120s 110s 100s 90s 80s 70s 60s 50s</p> <p>Write <math>\leq 49</math></p> <p>Use systolic blood pressure as trigger for response</p>



## Temperature (Degrees Celsius)

MR Form	Previous chart Temperature	Revised chart Temperature																				
<b>MR-59B</b> <b>0 - 3 months</b>	<table border="1"> <tr><td>Write <math>\geq</math> 39.1</td></tr> <tr><td>38.6 - 39.0</td></tr> <tr><td>38.1 - 38.5</td></tr> <tr><td>37.6 - 38.0</td></tr> <tr><td>37.1 - 37.5</td></tr> <tr><td>36.6 - 37.0</td></tr> <tr><td>36.1 - 36.5</td></tr> <tr><td>35.6 - 36.0</td></tr> <tr><td>35.1 - 35.5</td></tr> <tr><td>Write <math>\leq</math> 35.0</td></tr> </table>	Write $\geq$ 39.1	38.6 - 39.0	38.1 - 38.5	37.6 - 38.0	37.1 - 37.5	36.6 - 37.0	36.1 - 36.5	35.6 - 36.0	35.1 - 35.5	Write $\leq$ 35.0	<table border="1"> <tr><td>Write <math>\geq</math> 39.1</td></tr> <tr><td>38.6 - 39.0</td></tr> <tr><td>38.0 - 38.5</td></tr> <tr><td>37.6 - 37.9</td></tr> <tr><td>37.1 - 37.5</td></tr> <tr><td>36.6 - 37.0</td></tr> <tr><td>36.1 - 36.5</td></tr> <tr><td>35.6 - 36.0</td></tr> <tr><td>Write <math>\leq</math> 35.5</td></tr> </table>	Write $\geq$ 39.1	38.6 - 39.0	38.0 - 38.5	37.6 - 37.9	37.1 - 37.5	36.6 - 37.0	36.1 - 36.5	35.6 - 36.0	Write $\leq$ 35.5	
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## Level of Consciousness – additional to Section C

Previously, all charts combined *Level of Consciousness* and *Sedation Table*, and *Additional Observations* appeared as a separate observation assessment in Section C.

### Changes:

#### Only one assessment to be used (not both)

- > Level of Consciousness – use AVPU scale (Alert, Verbal, Pain, Unresponsive)

OR

- > Level of Sedation – use for children receiving sedation and/or opioids (don't use AVPU)

MR Form	Previous chart - page 3 Level of Consciousness/Sedation	Revised chart – page 2 Level of Consciousness (only)																																																																																																																																										
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## Level of Sedation - Additional to Section C

- > For children receiving sedation and/or opioids only
- > Sedation score of 2 is now a red zone trigger - MDT review (was RN/RM review)  
(Refer to Section H: Sedation Score: page 4 to calculate score and document page 3)

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	<p>Previous chart - page 3 Level of Consciousness/Sedation</p> <table border="1"> <thead> <tr> <th colspan="5">Level of Consciousness/Sedation</th> </tr> <tr> <th>Score</th> <th>Descriptor</th> <th>Stimulus</th> <th>Response</th> <th>Duration</th> </tr> </thead> <tbody> <tr> <td>3</td> <td>Difficult to rouse (severe respiratory depression)</td> <td>Pain, shoulder squeeze, jaw thrust</td> <td>Brief eye opening OR any movement OR no response</td> <td>N/A</td> </tr> <tr> <td>2</td> <td>Easy to rouse, difficulty staying awake</td> <td>Voice, light touch</td> <td>Eye opening and eye contact</td> <td>&lt;10 seconds</td> </tr> <tr> <td>1</td> <td>Easy to rouse</td> <td>Voice, light touch</td> <td>Eye opening and eye contact</td> <td>&gt;10 seconds</td> </tr> <tr> <td>0</td> <td>Awake, alert</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> </tr> </tbody> </table>	Level of Consciousness/Sedation					Score	Descriptor	Stimulus	Response	Duration	3	Difficult to rouse (severe respiratory depression)	Pain, shoulder squeeze, jaw thrust	Brief eye opening OR any movement OR no response	N/A	2	Easy to rouse, difficulty staying awake	Voice, light touch	Eye opening and eye contact	<10 seconds	1	Easy to rouse	Voice, light touch	Eye opening and eye contact	>10 seconds	0	Awake, alert	N/A	N/A	N/A																																									
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## Pain Score – additional to Section C

> **FLACC table removed**

Refer to local guidelines, reference tools - *Acute Pain Management and Opioid Safety in Children* ([sahealth.sa.gov.au](http://sahealth.sa.gov.au)) - [Paediatric Clinical Practice Guidelines | SA Health](#)

> **Changes to Escalation Response criteria:**

- o unrelieved or unexpected pain triggers
- o escalation to RN/RM review.

> **One assessment of pain**

- o at score of 8-10 > triggers RN/RM review

MR Form	Previous chart - page 3 Pain score	Revised chart – page 2 Pain score												
MR-59B 0 - 3 months  MR-59C 3 months - 1 year	<table border="1"> <tr> <td><b>Pain Score</b></td> <td>8 - 10</td> </tr> <tr> <td>At Rest</td> <td>5 - 7</td> </tr> <tr> <td>(2 consecutive)</td> <td>0 - 4</td> </tr> </table>	<b>Pain Score</b>	8 - 10	At Rest	5 - 7	(2 consecutive)	0 - 4	<table border="1"> <tr> <td><b>Pain Score</b></td> <td>8 - 10</td> </tr> <tr> <td>Refer to FLACC score</td> <td>5 - 7</td> </tr> <tr> <td></td> <td>0 - 4</td> </tr> </table>	<b>Pain Score</b>	8 - 10	Refer to FLACC score	5 - 7		0 - 4
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MR-59D 1 – 4 years	<table border="1"> <tr> <td><b>Pain Score</b></td> <td>8 - 10</td> </tr> <tr> <td>At Rest</td> <td>5 - 7</td> </tr> <tr> <td>(2 consecutive)</td> <td>0 - 4</td> </tr> </table>	<b>Pain Score</b>	8 - 10	At Rest	5 - 7	(2 consecutive)	0 - 4	<table border="1"> <tr> <td><b>Pain Score</b></td> <td>8 - 10</td> </tr> <tr> <td>FLACC <input type="checkbox"/> Faces <input type="checkbox"/></td> <td>5 - 7</td> </tr> <tr> <td>(Please tick)</td> <td>0 - 4</td> </tr> </table>	<b>Pain Score</b>	8 - 10	FLACC <input type="checkbox"/> Faces <input type="checkbox"/>	5 - 7	(Please tick)	0 - 4
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MR-59E 5 – 11 years  MR-59F 12 – 17 years	<table border="1"> <tr> <td><b>Pain Score</b></td> <td>8 - 10</td> </tr> <tr> <td>At Rest</td> <td>5 - 7</td> </tr> <tr> <td>(2 consecutive)</td> <td>0 - 4</td> </tr> </table>	<b>Pain Score</b>	8 - 10	At Rest	5 - 7	(2 consecutive)	0 - 4	<table border="1"> <tr> <td><b>Pain Score</b></td> <td>8 - 10</td> </tr> <tr> <td>FLACC <input type="checkbox"/> Faces <input type="checkbox"/> Numeric <input type="checkbox"/></td> <td>5 - 7</td> </tr> <tr> <td>(Please tick)</td> <td>0 - 4</td> </tr> </table>	<b>Pain Score</b>	8 - 10	FLACC <input type="checkbox"/> Faces <input type="checkbox"/> Numeric <input type="checkbox"/>	5 - 7	(Please tick)	0 - 4
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FLACC <input type="checkbox"/> Faces <input type="checkbox"/> Numeric <input type="checkbox"/>	5 - 7													
(Please tick)	0 - 4													

## Blood Glucose Level (BGL) – additional to Section C

**All charts**

- > needs to be written in mmol/L, in line with date and time
- > no triggers

## Initials – additional to Section C

**All charts**

- > space for clinician to record their first and last name initials

## 6. MODIFICATIONS - SECTION D - Page 3

### All charts

- > Adapted to match the Adult RDR charts.
- > Moved to page 3, opposite the Observation chart.

### Wording has changed to make clear:

- > Modifications are observations for this patient within a specified time that modify the trigger point for escalation.
- > Trigger points are colour coded for MDT review or MER call.

### Additional space for:

- > Information about triggers for MDT review MER call.
- > Start and finish date and time for a modification.  
(The modification stops at the finish time and the observation parameters go back to the pre-set triggers).
- > Colour added to triggers for review.
- > Medical Officer to write and review any modifications.
- > The space for documenting the clinician's name, designation and signature remains the same.

### Revised chart – page 3

#### Modifications

SECTION D - MODIFICATIONS				
A Medical Officer must write and review any <b>Modifications</b> . These are any observation(s) for this patient within a <b>specified time</b> that modify the trigger point for escalation. Refer to the local procedure(s) for instructions on documenting and altering Modifications.				
	Modification 1	Modification 2	Modification 3	Modification 4
Start Date and Time				
Finish Date and Time				
Observation(s)				
Triggers for MDT review				
Triggers for MER call				

### Previous chart - page 3

#### Modifications

Modifications				
If abnormal observations are to be tolerated for the patient's clinical condition, write the acceptable ranges and rationale (where a response will not be triggered) below. Duration of modification must be specified.				
	Modification 1	Modification 2	Modification 3	Modification 4
Date	/ /	/ /	/ /	/ /
Time	:	:	:	:
Duration				
Observation(s) and acceptable range				
Brief Rationale (Full description in medical record)				

## 7. FREQUENCY OF OBSERVATIONS - SECTION E: Page 3

### All charts

- > Adapted to match the Adult RDR charts.
- > New section to document the ordering of a change in the frequency of observations (observations are at least 4 hourly unless Section E specifies something different).
- > Refer to local procedures (e.g., only a senior RN to change frequency).
- > Increase to minimum of hourly if MDT review.

SECTION E – FREQUENCY OF OBSERVATIONS							
Observations should be performed routinely at least 4 hourly unless advised below. Refer to local procedure for who can alter frequency.							
Date	(e.g) 06/04/2021	/ /	/ /	/ /	/ /	/ /	/ /
Frequency	2/24						
Name/Designation	Smith RN						

## 8. INTERVENTION OR REVIEW DONE - SECTION F: Page 3 (INCLUDING MDT OR MET CALL)

### All charts

- > Adapted to match the Adult RDR charts.
- > Document the time of intervention as a reference point (in previous chart reference was A, B, C etc.)

SECTION F - INTERVENTION OR REVIEW DONE (INCLUDING MDT OR MET CALL)					
Date	Intervention or review (e.g. Urine Output, increase frequency BGL's, O <sub>2</sub> changes etc)	Patient family/ carer concern	Physical state change	Mental state change	Name
Time					Signature
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

## 9. RESPONSE CRITERIA AND ACTIONS TO TAKE - SECTION G: Page 4

### Changes:

- > Wording and formatting changed to align with adult RDR chart
- > Addition of 'Patient or consumer concern' has been added to all three categories of response criteria

#### MER CALL

- > Time specified (> 30 mins) for a delayed MDT review - consider MER

#### MDT Review

- > 0-3 months and 3 months – 1 year chart - patient has not voided for 8 hours (reduced from 12 hrs)
- > New or increase in Oxygen flow rate
- > Minimum hourly observations, as response to MDT review (Escalate if ongoing fluctuations).
- > New or unexplained behavioural change removed - moved to RN/RM review criteria

#### RN/RM Review

- > New or unexplained behavioural change added - moved from MDT review
- > Unrelieved or unexpected pain
- > Escalate to MDT review if not reviewed by RN/RM within 30 minutes
- > Review SpO<sub>2</sub> and O<sub>2</sub> flow rate requirements

SECTION G - RESPONSE CRITERIA AND ACTIONS TO TAKE		
ALWAYS CHECK CURRENT MODIFICATIONS		
<b>MEDICAL EMERGENCY RESPONSE (MER) CALL</b>		
<b>RESPONSE CRITERIA</b> - If one or more observations are in the purple zone, or one or more of the following are occurring;		<b>ACTIONS REQUIRED</b>
<ul style="list-style-type: none"> <li>You are worried about the patient</li> <li>A patient or consumer is worried</li> </ul>	<ul style="list-style-type: none"> <li>Respiratory or cardiac arrest</li> <li>Threatened airway</li> <li>Significant bleeding</li> <li>Unexpected or uncontrolled seizure</li> <li>Consider for delayed MDT review (&gt; 30 minutes)</li> </ul>	<ul style="list-style-type: none"> <li>Place emergency call and specify location</li> <li>Initiate basic/advanced life support</li> <li>Notify senior doctor responsible for patient</li> <li>Increase frequency of observations post intervention. Take advice from MER team</li> </ul>
<b>MULTI DISCIPLINARY TEAM (MDT) REVIEW</b> <i>(Minimum team of registered nurse/midwife and medical practitioner)</i>		
<b>RESPONSE CRITERIA</b> - If one or more observations are in the red zone, or one or more of the following are occurring;		<b>ACTIONS REQUIRED</b>
<ul style="list-style-type: none"> <li>You are worried about the patient</li> <li>A patient or consumer is worried</li> </ul>	<ul style="list-style-type: none"> <li>Poor peripheral circulation</li> <li>Greater than expected fluid loss</li> <li>Urine output &lt; 1ml/kg/hr over 4 hours or patient has not voided for 8 hours</li> <li>New or increase in O<sub>2</sub> flow rate</li> <li>Escalate to MER call if there are 3 or more observations in red zone</li> </ul>	<ul style="list-style-type: none"> <li>MDT review must occur within 30 minutes (Rural Hospitals refer to local guidelines) or escalate to MER call</li> <li>Increase frequency of observations (minimum hourly). Escalate if there are ongoing fluctuations.</li> <li>Review SpO<sub>2</sub> and O<sub>2</sub> flow rate requirements</li> </ul>
<b>REGISTERED NURSE OR REGISTERED MIDWIFE</b> <i>(and notify Shift Coordinator)</i>		
<b>RESPONSE CRITERIA</b> - If one or more observations are in the yellow zone, or one or more of the following are occurring;		<b>ACTIONS REQUIRED</b>
<ul style="list-style-type: none"> <li>You are worried about the patient</li> <li>A patient or consumer is worried</li> </ul>	<ul style="list-style-type: none"> <li>Poor peripheral circulation</li> <li>New or unexplained behavioural change</li> <li>Unrelieved or unexpected pain</li> <li>Escalate to MDT review if there are 3 or more observations in yellow zone</li> </ul>	<ul style="list-style-type: none"> <li>Registered nurse/midwife review must occur within 30 minutes, or escalate to MDT review</li> <li>Increase frequency of observations</li> <li>Manage anxiety, pain and other symptoms</li> <li>Review SpO<sub>2</sub> and O<sub>2</sub> flow rate requirements</li> </ul>

Note: 8 hours for MR-59B and MR-59C only. Others 12 hours.

## 10. REFERENCES

Vital sign trigger changes as per ViCTOR charts (Victorian Paediatric Trigger Charts) based on extensive evidence (see full list of studies [here](#)).

Predominately [Bonafide](#) et al. 2013

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### For more information

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