



# patient safety **ADVISORY**

Advisory Number 4, 1 June 2009

**Subject**

*Babylog 8000 plus Neonatal Ventilator (Draeger)*



Babylog 8000 plus

**Issued by**

*Patient Safety Centre*

**Issue date**

*1 June 2009*

**Authority**

*Queensland Health Patient Safety Executive Committee*

**Issue**

1. *False alarms have been reported in a number of Babylog 8000 plus ventilators when the volume guarantee (VG) option is selected. The VG option is available in the ventilation modes of Synchronized Intermittent Positive Pressure Ventilation (SIPPV), Synchronized Intermittent Mandatory Ventilation (SIMV) and Pressure Support Ventilation (PSV).*
2. *The advisory alarm "Flow sensor dirty? Please clean sensor!" has been noted to intermittently display where it has been observed by Biomedical Technology Services (BTS) and Draeger Medical that the*

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centre

	<i>flow sensor and associated circuitry may not be at fault.</i>
<b>Specific Incident</b>	<p><i>When the ventilation mode on a Draeger Babylog 8000 plus ventilator was changed from SIPPV mode to SIPPV with volume guarantee, the ventilator produced a "Flow Sensor Dirty" alarm.</i></p> <p><i>At the time, the device did not register any breaths or VT when clearly the baby was receiving breaths and the chest wall was well expanded with each breath. The VT was set at 3.8mls, PIP at 24. The ventilator alarmed and suggested more PIP was required.</i></p> <p><i>The ventilator continued to alarm with various messages, dirty flow sensor; VT low; apnoea or tube obstructed when this was not the case.</i></p> <p><i>The ventilator was changed to an older Draeger model and it was noted that with the same settings (PIP 22 and VT 2.9mls) the ventilator only required a PIP of 6 - 7 to maintain the same VT.</i></p>
<b>Requested Action</b>	<p><b><i>Executive Directors of Medical Services and Directors of Neonatal Services/Neonatal Intensive Care Units:-</i></b></p> <ol style="list-style-type: none"> <li><i>1. Ensure operators of the Babylog 8000 plus ventilator are aware of the reported issues as outlined in this Advisory.</i></li> <li><i>2. Ensure that operators of the Babylog 8000 plus ventilator closely monitor the ventilator display, particularly when using volume guarantee.</i></li> <li><i>3. If the advisory alarm "Flow sensor dirty? Please clean sensor!" is displayed; please follow the manufacturer's recommendations in the Operators Manual of replacing the sensor.</i></li> <li><i>4. If the alarm continues following corrective action, the ventilator should be removed from clinical service for evaluation by local Biomedical Technology Services.</i></li> <li><i>5. Ensure any adverse events associated with this device are logged in PRIME Clinical Incidents.</i></li> <li><i>6. Notify Linda McCormack A/Director Patient Safety Centre (07) 3636 6881 or Pete Losin, Director - Biomedical Policy and Planning telephone (07) 3131 6717 with any concerns about the device or instructions.</i></li> </ol> <p><b><i>Queensland Health will ensure that:</i></b></p> <ol style="list-style-type: none"> <li><i>1. Biomedical Technology Service and the Patient Safety Centre liaise with the manufacturer and Therapeutic Goods Administration with regards to investigation and management of the Babylog 8000 plus ventilator.</i></li> <li><i>2. Patient Safety Centre will notify District Chief Executive Officers of outcomes of above actions.</i></li> </ol>
<b>Distribution List</b>	<p><b><i>Action officers: -</i></b></p> <ul style="list-style-type: none"> <li><i>▪ Executive Directors of Medical Services and Directors Neonatal</i></li> </ul>

	<p><i>Services /Neonatal Intensive Care:-</i></p> <ul style="list-style-type: none"> <li>○ <i>Please read and distribute the advisory to all relevant medical staff.</i></li> <li>▪ <i>District Directors of Nursing Services</i> <ul style="list-style-type: none"> <li>○ <i>Please read and distribute the advisory to all relevant nursing staff.</i></li> </ul> </li> </ul> <p><b>Copies to – For information only:-</b></p> <ul style="list-style-type: none"> <li>▪ <i>Director-General</i></li> <li>▪ <i>CEO Centre for Healthcare Improvement</i></li> <li>▪ <i>District Chief Executive Officers</i></li> <li>▪ <i>Biomedical Technology Services</i></li> </ul>
<b>Contacts</b>	<ul style="list-style-type: none"> <li>▪ <i>Linda McCormack, A/Director Patient Safety Centre (07) 3636 6881; <a href="mailto:linda_mccormack@health.qld.gov.au">linda_mccormack@health.qld.gov.au</a></i></li> <li>▪ <i>Pete Losin, Director - Biomedical Policy and Planning (07) 3131 6717; <a href="mailto:pete_losin@health.qld.gov.au">pete_losin@health.qld.gov.au</a></i></li> </ul>
<b>Advisory</b>	<p>“An <b>Advisory</b> communicates ‘lessons learned’ from serious adverse events to raise awareness”</p>

<b>Revision</b>	<b>Date</b>	<b>Author/s</b>	<b>Amendments</b>
1.0	26 May 2009	Linda McCormack	Initial version (draft)
	2 June 2009	Dr Maarten Kamp	Approved