

Washington DC May 6-9, 2017

Washington May 9. Senzime participated at the International Anesthesia Research Society Annual meeting, IARS. Senzime exhibited TetraGraph and Professor Sorin Brull made a poster presentation on the topic.

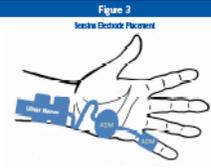
“This meeting has been a great success for Senzime with a lot of interest in our TetraGraph and the upcoming market launch. There is a huge need for a precise and easy to use monitor to reduce complications and shorten hospital stays, says Lena Söderström, CEO Senzime.



[Link to the poster](#)

Examining Awake Volunteer Pain Scores and Operator Ease of Use of a Novel Neuromuscular Blockade Monitor

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Abstract	Introduction	Figure 1 TetraGraph	Methods	Table 1 Visual Analog Scale (VAS) Scores	References																																																						
<p>Abstract</p> <p>Background: TetraGraph is a novel neuromuscular blockade monitor that provides a quantitative measure of neuromuscular blockade (NMB) by measuring the amplitude of the compound muscle potential (CMPE) in response to a train-of-four (TOF) stimulus. The objective of this study was to evaluate the accuracy of the TetraGraph monitor in awake volunteers.</p> <p>Methods: Ten awake volunteers participated in the study. The TetraGraph monitor was used to measure the TOF ratio (TOFR) in response to a train-of-four (TOF) stimulus. The TOFR was compared to the TOFR measured by a gold standard TOF monitor (TOF-Watch SX).</p> <p>Results: The TOFR measured by the TetraGraph monitor was highly correlated with the TOFR measured by the gold standard TOF monitor. The mean TOFR was 0.85 (SD 0.05) for the TetraGraph monitor and 0.85 (SD 0.05) for the gold standard TOF monitor.</p> <p>Conclusion: The TetraGraph monitor is a highly accurate and easy-to-use monitor for measuring NMB in awake volunteers.</p>	<p>Introduction</p> <p>Neuromuscular blockade (NMB) is a significant problem that requires patients to undergo pain management, which affects their recovery. The use of a quantitative monitor of NMB can help optimize the management of neuromuscular blocking agents (NMBA). However, the lack of a reliable and easy-to-use monitor is a barrier to the widespread use of NMB monitoring. The TetraGraph monitor is a novel monitor that provides a quantitative measure of NMB by measuring the amplitude of the compound muscle potential (CMPE) in response to a train-of-four (TOF) stimulus. The objective of this study was to evaluate the accuracy of the TetraGraph monitor in awake volunteers.</p> <p>Methods: Ten awake volunteers participated in the study. The TetraGraph monitor was used to measure the TOF ratio (TOFR) in response to a train-of-four (TOF) stimulus. The TOFR was compared to the TOFR measured by a gold standard TOF monitor (TOF-Watch SX).</p> <p>Results: The TOFR measured by the TetraGraph monitor was highly correlated with the TOFR measured by the gold standard TOF monitor. The mean TOFR was 0.85 (SD 0.05) for the TetraGraph monitor and 0.85 (SD 0.05) for the gold standard TOF monitor.</p> <p>Conclusion: The TetraGraph monitor is a highly accurate and easy-to-use monitor for measuring NMB in awake volunteers.</p>	<p>Figure 1</p>  <p>Figure 2</p> 	<p>Methods</p> <p>The study was approved by the Institutional Review Board (IRB) and informed consent was obtained from all participants. The study was conducted in a laboratory setting. The TetraGraph monitor was used to measure the TOFR in response to a train-of-four (TOF) stimulus. The TOFR was compared to the TOFR measured by a gold standard TOF monitor (TOF-Watch SX). The TOFR was measured at rest, and then after the administration of a train-of-four (TOF) stimulus. The TOFR was measured at rest, and then after the administration of a train-of-four (TOF) stimulus. The TOFR was measured at rest, and then after the administration of a train-of-four (TOF) stimulus.</p> <p>Figure 3</p> 	<table border="1" style="width: 100%; border-collapse: collapse; font-size: 8px;"> <thead> <tr> <th rowspan="2">Amplitude</th> <th colspan="3">TOF Ratio</th> <th colspan="3">TetraGraph</th> <th rowspan="2">P-value</th> </tr> <tr> <th>M</th> <th>SD</th> <th>CI</th> <th>M</th> <th>SD</th> <th>CI</th> </tr> </thead> <tbody> <tr> <td>20 mA</td> <td>1.56</td> <td>1.16</td> <td>1.06-2.06</td> <td>1.52</td> <td>1.40</td> <td>0.83-2.20</td> <td>0.86</td> </tr> <tr> <td>30 mA</td> <td>3.11</td> <td>1.68</td> <td>2.70-3.65</td> <td>2.89</td> <td>1.63</td> <td>2.10-3.65</td> <td>0.36</td> </tr> <tr> <td>40 mA</td> <td>4.25</td> <td>2.40</td> <td>3.66-6.05</td> <td>2.88</td> <td>1.15</td> <td>2.10-3.16</td> <td><0.0001</td> </tr> <tr> <td>60 mA</td> <td>6.75</td> <td>2.23</td> <td>6.64-8.40</td> <td>4.86</td> <td>2.38</td> <td>3.06-6.09</td> <td>0.04</td> </tr> <tr> <td>Overall</td> <td>3.35</td> <td>2.28</td> <td>3.26-6.28</td> <td>2.88</td> <td>1.97</td> <td>2.43-3.18</td> <td>0.001</td> </tr> </tbody> </table> <p>Results</p> <p>NMB scores obtained with TetraGraph were significantly lower than those obtained with TOF-Watch SX in awake volunteers. The mean TOFR was 0.85 (SD 0.05) for the TetraGraph monitor and 0.85 (SD 0.05) for the gold standard TOF monitor.</p> <p>Conclusions</p> <p>The TetraGraph monitor is a highly accurate and easy-to-use monitor for measuring NMB in awake volunteers. The mean TOFR was 0.85 (SD 0.05) for the TetraGraph monitor and 0.85 (SD 0.05) for the gold standard TOF monitor.</p>	Amplitude	TOF Ratio			TetraGraph			P-value	M	SD	CI	M	SD	CI	20 mA	1.56	1.16	1.06-2.06	1.52	1.40	0.83-2.20	0.86	30 mA	3.11	1.68	2.70-3.65	2.89	1.63	2.10-3.65	0.36	40 mA	4.25	2.40	3.66-6.05	2.88	1.15	2.10-3.16	<0.0001	60 mA	6.75	2.23	6.64-8.40	4.86	2.38	3.06-6.09	0.04	Overall	3.35	2.28	3.26-6.28	2.88	1.97	2.43-3.18	0.001	<p>References</p> <ol style="list-style-type: none"> 1. Brull SJ, Brull J, Brull J, et al. TetraGraph: a novel neuromuscular blockade monitor. <i>Anesth Analg</i>. 2015;121(5):1015-1021. 2. Brull SJ, Brull J, Brull J, et al. TetraGraph: a novel neuromuscular blockade monitor. <i>Anesth Analg</i>. 2015;121(5):1015-1021. <p>Disclosures</p> <p>Dr. Brull is a member of the Board of Directors of the American Society for Neurological Rehabilitation (ASNR), the American Society for Neurological Rehabilitation (ASNR).</p>
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