

## Review Form 1.6

Journal Name:	<a href="#">Journal of Pharmaceutical Research International</a>
Manuscript Number:	Ms_JPRI_90517
Title of the Manuscript:	Effects of opioid sparing analgesia for surgical procedure of laparoscopic pyloromyotomy in order to enhance recovery and better surgical outcomes
Type of the Article	Original Research Article

### **General guideline for Peer Review process:**

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<https://www.journaljpri.com/index.php/JPRI/editorial-policy>)

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**PART 1: Review Comments**

	<b>Reviewer's comment</b>	<b>Author's comment</b> (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)																																																												
<b>Compulsory</b> REVISION comments																																																														
<b>Minor</b> REVISION comments	<p style="text-align: center;"><b><u>Pain Assessment Tools</u></b>  <b><u>Neonatal/Infant Pain Scale (NIPS)</u></b>          (Recommended for children less than 1 year old) - A score greater than 3 indicates pain</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: center;">Pain Assessment</th> <th style="text-align: center;">Score</th> </tr> </thead> <tbody> <tr> <td colspan="3"><b>Facial Expression</b></td> </tr> <tr> <td style="width: 20%;">0 – Relaxed muscles</td> <td>Restful face, neutral expression</td> <td></td> </tr> <tr> <td>1 – Grimace</td> <td>Tight facial muscles; furrowed brow, chin, jaw, (negative facial expression – nose, mouth and brow)</td> <td></td> </tr> <tr> <td colspan="3"><b>Cry</b></td> </tr> <tr> <td>0 – No Cry</td> <td>Quiet, not crying</td> <td></td> </tr> <tr> <td>1 – Whimper</td> <td>Mild moaning, intermittent</td> <td></td> </tr> <tr> <td>2 – Vigorous Cry</td> <td>Loud scream; rising, shrill, continuous (Note: Silent cry may be scored if baby is intubated as evidenced by obvious mouth and facial movement.</td> <td></td> </tr> <tr> <td colspan="3"><b>Breathing Patterns</b></td> </tr> <tr> <td>0 – Relaxed</td> <td>Usual pattern for this infant</td> <td></td> </tr> <tr> <td>1 – Change in Breathing</td> <td>Indrawing, irregular, faster than usual; gagging; breath holding</td> <td></td> </tr> <tr> <td colspan="3"><b>Arms</b></td> </tr> <tr> <td>0 – Relaxed/Restrained</td> <td>No muscular rigidity; occasional random movements of arms</td> <td></td> </tr> <tr> <td>1 – Flexed/Extended</td> <td>Tense, straight legs; rigid and/or rapid extension, flexion</td> <td></td> </tr> <tr> <td colspan="3"><b>Legs</b></td> </tr> <tr> <td>0 – Relaxed/Restrained</td> <td>No muscular rigidity; occasional random leg movement</td> <td></td> </tr> <tr> <td>1 – Flexed/Extended</td> <td>Tense, straight legs; rigid and/or rapid extension, flexion</td> <td></td> </tr> <tr> <td colspan="3"><b>State of Arousal</b></td> </tr> <tr> <td>0 – Sleeping/Awake</td> <td>Quiet, peaceful sleeping or alert random leg movement</td> <td></td> </tr> <tr> <td>1 – Fussy</td> <td>Alert, restless, and thrashing</td> <td></td> </tr> </tbody> </table> <p>If you examine the Neonatal-Infant Pain Scale, most of the points are based on observations of behaviour, which can be subject to subjective interpretation. More objective physical parameters should be used, such as pulse rate, which has a high correlation with pain levels. I would add one sentence about this missing objective parameter.</p>	Pain Assessment		Score	<b>Facial Expression</b>			0 – Relaxed muscles	Restful face, neutral expression		1 – Grimace	Tight facial muscles; furrowed brow, chin, jaw, (negative facial expression – nose, mouth and brow)		<b>Cry</b>			0 – No Cry	Quiet, not crying		1 – Whimper	Mild moaning, intermittent		2 – Vigorous Cry	Loud scream; rising, shrill, continuous (Note: Silent cry may be scored if baby is intubated as evidenced by obvious mouth and facial movement.		<b>Breathing Patterns</b>			0 – Relaxed	Usual pattern for this infant		1 – Change in Breathing	Indrawing, irregular, faster than usual; gagging; breath holding		<b>Arms</b>			0 – Relaxed/Restrained	No muscular rigidity; occasional random movements of arms		1 – Flexed/Extended	Tense, straight legs; rigid and/or rapid extension, flexion		<b>Legs</b>			0 – Relaxed/Restrained	No muscular rigidity; occasional random leg movement		1 – Flexed/Extended	Tense, straight legs; rigid and/or rapid extension, flexion		<b>State of Arousal</b>			0 – Sleeping/Awake	Quiet, peaceful sleeping or alert random leg movement		1 – Fussy	Alert, restless, and thrashing		
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<b>Optional/General</b> comments	<p>The measurement of pain is fraught with pitfalls, and has many subjective components. The authors are to be complimented for their efforts to reduce the unnecessary use of opioids in surgical cases in infants. Based on just medical observations alone (less recovery time, less impact on respirations, less lethargy, less impact on the cardiovascular system) their approach to infant anaesthesia is laudable. Proving that medications produce less perceived pain in a non-verbal patient group is a daunting task. The NIPS suffers from the lack of pulse rate as one of the measured parameters, which is well documented in the pain literature. Perhaps the researchers can mention this flaw in the NIPS, and reconstruct a data set based on their pre-peri-post op pulse rates of the infants. This would take about 2 hours of chart reviews but would add a lot to support their thesis. I might suggest that this could be the basis for another article on the same topic, with the appeal to add pulse rate to the NIPS rankings.</p>																																																													

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**PART 2:**

	<b>Reviewer's comment</b>	<b>Author's comment</b> <i>(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
<b>Are there ethical issues in this manuscript?</b>	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	NO

**Reviewer Details:**

Name:	<b>Nelson Hendler</b>
Department, University & Country	<b>University of Maryland School of Dental Surgery, USA</b>