Author's response to reviews

Title: Comparison of the analgesic effects of a heat patch containing an iron chip with ibuprofen in primary dysmenorrhea: a randomized controlled trial

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Author's response to reviews: see over
Dear Reviewer: Yutaka Osuga

1. What kind of procedure was used for randomization?
   Kind of procedure used for randomization: was Systematic random sampling.

3. Table 2 is confusing. Although the authors measured pain at 2, 4, 8, 12, 24 hours of menstruation, those figures were not presented.

   We reported comparison 4 domain in 5 times.

<table>
<thead>
<tr>
<th></th>
<th>2h</th>
<th>4h</th>
<th>8h</th>
<th>12h</th>
<th>24h</th>
<th>2h</th>
<th>4h</th>
<th>8h</th>
<th>12h</th>
<th>24h</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensual pain (0-33)</td>
<td>11.66</td>
<td>7.98</td>
<td>5.76</td>
<td>4.98</td>
<td>3.59</td>
<td>10.98</td>
<td>7.76</td>
<td>6.19</td>
<td>5.21</td>
<td>4.09</td>
</tr>
<tr>
<td>Emotional pain (0-12)</td>
<td>4.88</td>
<td>2.44</td>
<td>2.5</td>
<td>1.81</td>
<td>1.36</td>
<td>4.41</td>
<td>2.58</td>
<td>2.5</td>
<td>3.46</td>
<td>1.76</td>
</tr>
<tr>
<td>Current pain (0-100)</td>
<td>51.79</td>
<td>42.63</td>
<td>37.41</td>
<td>27.19</td>
<td>23.04</td>
<td>48.62</td>
<td>38.28</td>
<td>26.02</td>
<td>25.48</td>
<td>23.14</td>
</tr>
<tr>
<td>Overall pain (0-5)</td>
<td>2.86</td>
<td>2.12</td>
<td>1.5</td>
<td>2.12</td>
<td>1.06</td>
<td>4.08</td>
<td>2.25</td>
<td>1.8</td>
<td>1.57</td>
<td>1.37</td>
</tr>
</tbody>
</table>

Table 3: Compare mean score pain in 2, 4, 8, 12, and 24 hr after treatment in two groups (Heat iron pack-Ibuprofen)

Many thanks,
Shahin Navvabi-Rigi
Response to points:

Dear Reviewer Maria Luisa Gasparri

1- About selection patients add this sentenceses (Inclusion criteria were age 18 to 30 years, and dysmenorrhea in young women within the first 2 years of the onset of menstruation and all had regular menstrual cycles and good general health, moderate and severe cramps without any underlying illness or cause, not history of endometriosis. The students were randomly probably sampling assigned into ibuprofen and heat patch groups.

2- our article edited by edanz.

3-  we reported comparison 4 domain in 5 times

![Graph showing pain scores over time for different treatments]

Table 3: Compare mean score pain in 2, 4, 8, 12, and 24 hr after treatment in two groups (Heat iron patch-Ibuprofen)
Dear Rachel Neilan

Response to Editorial requests:
1. our article edited by edanz.
2. trial registration number is placed at the foot of our abstract,

Many tanks
Shahin Navvabi-Rigi