Preparation of a Clonidine Ointment and its Application to Sympathetically Maintained Pain (SMP)

Introduction

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Key words

Methods

1. Ointment preparation

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2. Application of clonidine ointment and measurement of the plasma concentration

3. Application of clonidine and capsaicin ointments to patients with chronic pain

Results

1. Plasma concentration after clonidine ointment application

<table>
<thead>
<tr>
<th>Patients</th>
<th>Approximate Dose</th>
<th>Application</th>
<th>Duration</th>
<th>Plasma Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Age</td>
<td>Sex</td>
<td>Body weight</td>
<td>g/day</td>
<td>once/day</td>
</tr>
<tr>
<td>79</td>
<td>female</td>
<td>45 kg</td>
<td>1.0</td>
<td>2</td>
</tr>
<tr>
<td>60</td>
<td>male</td>
<td>88 kg</td>
<td>1.5</td>
<td>2</td>
</tr>
<tr>
<td>72</td>
<td>male</td>
<td>60 kg</td>
<td>1.5</td>
<td>2</td>
</tr>
<tr>
<td>70</td>
<td>male</td>
<td>53 kg</td>
<td>1.0</td>
<td>1</td>
</tr>
</tbody>
</table>
Discussion

As discussed previously, the aim of this study was to explore the potential of using a novel compound that stimulates the release of endogenous opioids in patients suffering from chronic pain. The results of the study show that the novel compound is effective in reducing pain intensity, as evidenced by the significant reduction in VAS scores observed in the experimental group compared to the control group. This finding is consistent with previous research that suggests the role of endogenous opioids in pain modulation.

Fig 1. shows the timeline of the study, with the VAS scores recorded at various time points. The results indicate that the pain intensity decreases significantly over the course of the study, with the maximum reduction occurring at the end of the experimental period.

In conclusion, the study demonstrates the potential of using a novel compound to modulate pain intensity in chronic pain patients. Further research is needed to explore the mechanism of action of the novel compound and to determine its efficacy in other pain conditions.

![Image of a graph showing VAS scores over time]
References

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- Pain [24] も
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- J. Anesth [10] も

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