**ABSTRACT**

**ACUTE EFFECT OF DAPOXETINE ON EJACULATION INDUCED BY P-CHLOROAMPHETAMINE IN ANESTHETIZED RATS**

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**METHODS**

**INTRODUCTION & OBJECTIVE**

- The efficacy of chronic treatment with serotonin selective re-uptake inhibitors (SSRIs) in delaying ejaculation is well documented although their ability to delay ejaculation after acute administration is still a matter of debate (McMahon and Touma, 1999; Waldinger et al., 2004).
- P-chloroamphetamine (PCA), an amphetamine derivative that liberates endogenous catecholamines and serotonin, induces ejaculation in both conscious (Renyi, 1985) and anesthetized rats by acting at spinal and/or peripheral levels (Yonezawa et al., 2000).
- The goal of the study is to investigate the effects of acute i.v. delivery of dapoxetine on PCA-induced ejaculation in anesthetized rats.

**RESULTS**

- **Surgical preparation**
  - All animal experiments were carried out in accordance with European Communities Council Directives on the use of laboratory animals.
- **Adult male Wistar rats weighing 250–300 g were anesthetized with isoflurane (1–2.5%), tracheotomized, and the carotid artery catheterized for blood pressure measurement.**
- **Seminal vesicle pressure (SVP) was measured with a catheter, filled with mineral oil, inserted in the seminal vesicle through the apex.**
- **A pair of stainless steel electrodes were placed within the bulbospongious muscles (BS) for recording BS electrical activity (BS EMG).**
- **Mean area under the curve (AUC) of each BS burst (mean AUC) and all BS burst (total AUC) was calculated.**
- **Study sponsored by Johnson & Johnson Health Care Companies**

**TABLE 1: Effect of acute i.v. delivery of dapoxetine on proportion of rats ejaculating and mean number of ejaculation induced by PCA l.p. delivery (lim/kg).**

<table>
<thead>
<tr>
<th>Treatment</th>
<th>Rate ejaculating (%)</th>
<th>Total number of ejaculation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Saline</td>
<td>3/10</td>
<td>1.9 ± 0.5</td>
</tr>
<tr>
<td>Dapoxetine 1mg/kg</td>
<td>2/10</td>
<td>0.9 ± 0.4</td>
</tr>
<tr>
<td>Dapoxetine 3mg/kg</td>
<td>2/10</td>
<td>0.9 ± 0.2</td>
</tr>
<tr>
<td>Dapoxetine 10mg/kg</td>
<td>1/10</td>
<td>0.3 ± 0.2</td>
</tr>
</tbody>
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**REFERENCES**