Supplementary Material

Contraceptive efficacy and dose-response effects of the gonadotrophin-releasing hormone (GnRH) agonist deslorelin in Tasmanian devils (Sarcophilus harrisii)


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Inter-lab variation

Nine samples from a female control devil were originally analysed at TWPZ for faecal progesterone in 2014 and re-analysed (including faecal extraction from stored dry scats) at Sydney University in 2017 to evaluate the inter-lab variation. The average CV between labs for each sample was 29.12%, and there was a strong correlation between labs (R^2 = 0.93, Slope = 0.995; Supp. Fig. 1). The variation between labs may be accounted for by the slightly different protocol used for the EIA (single versus double antibody).
**Fig. S1.** Progesterone concentrations (ng/g) of samples from one female Tasmanian devil extracted and analysed at Taronga Western Plains Zoo in 2014, then again at the University of Sydney in 2017. Trendline equation: $y = 0.995x + 393.52$, $R^2 = 0.9307$. 
General health analysis

Table S1. Mean general health results for female Tasmanian devils in treatment groups control, low dose and high dose, with standard error presented in the bottom row

<table>
<thead>
<tr>
<th>Semi-Annual CBC (2015–2016)</th>
<th>Annual blood chemistry (July 2015 and 2016)</th>
<th>PCV (%)</th>
<th>RCC ($\times 10^{12}$ L$^{-1}$)</th>
<th>HGB (g/L)</th>
<th>Na/K ratio*</th>
<th>Potassium (mmol/L)*</th>
<th>Albumin (g/L)*</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Control</td>
<td></td>
<td>44.07A</td>
<td>6.39A</td>
<td>150.30A</td>
<td>13.25A</td>
<td>25.62B</td>
<td>10.60A</td>
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<tr>
<td>Low dose</td>
<td></td>
<td>45.82AB</td>
<td>6.64AB</td>
<td>155.40AB</td>
<td>17.71A</td>
<td>19.60A</td>
<td>8.08BD</td>
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<tr>
<td>High dose</td>
<td></td>
<td>47.39B</td>
<td>6.95B</td>
<td>160.70B</td>
<td>14.42A</td>
<td>16.20A</td>
<td>9.78AB</td>
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<tr>
<td>S.E.</td>
<td></td>
<td>1.18</td>
<td>0.15</td>
<td>3.81</td>
<td>2.16</td>
<td>2.16</td>
<td>0.86</td>
</tr>
</tbody>
</table>

*Significant differences within columns marked by an asterisk are denoted by superscripts.