Noradrenaline in Human Adrenals

By

Toshiyuki Ozaki

(From the Department of Physiology, Nagasaki University School of Medicine, Nagasaki)

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There are, as regards the noradrenaline content of human adrenals, only a few evidences (Euler\textsuperscript{1}); Holtz & Schümann\textsuperscript{2}; Shepherd & West\textsuperscript{3}).

Recently I had a chance to estimate the noradrenaline contents of adrenal glands in a healthy man of 30 years who died a violent death. The glands were extirpated about 19 hours after death and were extracted with 5\% trichloracetic acid. For the determination of noradrenaline and adrenaline contents in these extracts, the permanganate method of Suzuki & Ozaki\textsuperscript{4}) was relied on. The results are tabulated.

### Table I

Noradrenaline and Adrenaline Content of the Human Adrenals

<table>
<thead>
<tr>
<th>Side of gland</th>
<th>Weight of gland (g.)</th>
<th>Adrenaline (mg. per g. of gland)</th>
<th>Noradrenaline (mg. per g. of gland)</th>
<th>Total (mg. per g. of gland)</th>
<th>Noradrenaline (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>R</td>
<td>4.0</td>
<td>0.934</td>
<td>0.130</td>
<td>1.064</td>
<td>12</td>
</tr>
<tr>
<td>L</td>
<td>3.5</td>
<td>0.958</td>
<td>0.110</td>
<td>1.068</td>
<td>10</td>
</tr>
<tr>
<td>Mean</td>
<td></td>
<td>0.946</td>
<td>0.120</td>
<td>1.066</td>
<td>11</td>
</tr>
</tbody>
</table>

Noradrenaline was found to be present in an amount of 11\% of the total in average, and this was in good accordance with the value of Shepherd & West (13\% of the total). On the other hand, the estimates of adrenaline and noradrenaline contents (per g. of gland) of the present writer were about fourfold of those of S. & W.

References