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BRIEF COMMUNICATION

INCIDENCE OF ANGIOSTRONGYLUS SIAMENSIS IN SMALL MAMMALS AT NAKORN NAYOK, THAILAND

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Key words: Angiostrongylus siamensis, small mammals, Thailand

Angiostrongylus siamensis OHBAYASHI, KAMIYA et BHAIBULAYA, 1979, was recorded for the first time from the mesenteric arteries of Rattus sabanus at Nakorn Nayok, 100km northeast of Bangkok, Thailand. Following this discovery, KAMIYA et al. (1980) added Rattus berdmorei, R. rattus and R. surifer as host animals. Up to this time, A. siamensis has been found only at Nakorn Nayok. During the period from July 22 to August 13, 1982, we collected parasite specimens from small Thai mammals of various areas, and obtained again A. siamensis at Nakorn Nayok as shown in Table 1. As a result, Bandicota savilei and B. indica were added as new host animal species of this parasite. Among murid animals this parasite is expected to have a wide host range.

TABLE 1 Incidence of A. siamensis in small mammals at Nakorn Nayok

<table>
<thead>
<tr>
<th>HOST</th>
<th>NUMBER OF CASES</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Examined</td>
</tr>
<tr>
<td>Rattus rattus</td>
<td>11</td>
</tr>
<tr>
<td>R. surifer</td>
<td>73</td>
</tr>
<tr>
<td>R. sabanus</td>
<td>2</td>
</tr>
<tr>
<td>R. fulvescens</td>
<td>1</td>
</tr>
<tr>
<td>R. berdmorei</td>
<td>8</td>
</tr>
<tr>
<td>Bandicota savilei</td>
<td>10</td>
</tr>
<tr>
<td>B. indica</td>
<td>1</td>
</tr>
<tr>
<td>Menetes berdmorei</td>
<td>3</td>
</tr>
<tr>
<td>Tupaia glis</td>
<td>4</td>
</tr>
<tr>
<td>Total</td>
<td>113</td>
</tr>
</tbody>
</table>

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In positive cases, the caecum manifested focal thickening of the wall, a compression preparation of which showed microscopically an accumulation of eggs and first stage larvae within granulomatous focus. Adult worms, 1-8 (average 3) in number, recovered from regional mesenteric arteries.

REFERENCES


2) Ohbayashi, M., Kamiya, M. & Bhaibulaya, M. (1979) : Studies on the parasite fauna of Thailand I. Two new metastrongylid nematodes, Angiostrongylus siamensis sp. n. and Thaistrongylus harinasutai gen. et sp. n. (Metastrongylidea ; Angiostrongylidae) from wild rats Ibid., 27, 5-10