Oral Presentation (OH-2)

Whatsapp Messanger as A Communication, Coordination and Evaluation Media in Rabies Control Program in Bengkalis District

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INTRODUCTION
Zoonotic control program can not only be done by one sector only, but must involve related sectors so that handling can be done comprehensively. Since 2016 Bengkalis District has been chosen as one of project area of One Health on prevention and control of targeted emerging infectious diseases and targeted zoonotic, especially rabies. 3 steps of training have been conducted for public health officers, animal health officer and wildlife health officer who served in Bengkalis District.

The absence of an information system on rabies-transmitted animal bites cases that can be accessed by officers from these three sectors has hampered the communication process which is the first step in implementing rabies prevention and control activities. Therefore we need a media that can bridge officers from the animal health, public health and wildlife health sector in communicating related cases of rabies-transmitted animal. As one of the output of One Health project, a whatsapp messenger grup, named "One Health Riau" have been created for all the field officers from the three sector to help them to communicate.

This study aims to provide an overview of the use of whatsapp messenger to communicate, coordinate and also to evaluate field officers in the handling of rabies-transmitted animal bite cases in Bengkalis District during March to May 2018.

MATERIALS AND METHODS
The data used in this study was obtained from information on rabies-transmitted animal bite case and responses that were sent to “One Health Riau” whatsapp group by public health, animal health and wildlife health officers serving in Bengkalis District during March to May 2018. The data that were sent is recapitulated and processed using a simple descriptive analysis method.

RESULT AND DISCUSSION
The cases of rabies-transmitted animal bites informed to “One Health Riau” whatsapp group from March to May 2018 were 73 cases. The control of rabies disease is strongly influenced by the speed of response done by field officers, both from the public health sector to handle the bite victim or from animal health to observe the condition of the biting rabies-transmitted animal. Therefore information on the occurrence of bite case should be shared immediately so that other sectors know and then perform appropriate procedures to handling the case.

Table 1. Source of rabies-transmitted animal bite case information

<table>
<thead>
<tr>
<th>Month</th>
<th>Number of case report</th>
<th>Number of case report</th>
<th>Number of case report</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>from public health officers</td>
<td>from animal health officers</td>
<td>from wildlife health officers</td>
</tr>
<tr>
<td>March</td>
<td>22</td>
<td>20</td>
<td>91</td>
</tr>
<tr>
<td>April</td>
<td>26</td>
<td>24</td>
<td>88</td>
</tr>
<tr>
<td>May</td>
<td>25</td>
<td>22</td>
<td>90</td>
</tr>
<tr>
<td>TOTAL</td>
<td>73</td>
<td>66</td>
<td>7</td>
</tr>
</tbody>
</table>

90% case informations (66/73) were sent by public health officers, 10% (7/73) by animal health officers, and no information sent by wildlife health officers. Most of rabies-transmitted animal
bite cases information were sent by public health officers because the bite victims will seek treatment at the health center. Therefore the role of public health officers as the source of information is very important.

Another factor contributing to the success of rabies control is the handling of bite cases comprehensively that may reduce the risk of further bites by the same rabies-transmitted animal. Therefore, it is expected that public health officer and animal health officers and also wildlife health officer can respond each bite case together cross-sectorally.

Table 2. Types of response of rabies-transmitted animal bite case information

<table>
<thead>
<tr>
<th>Month</th>
<th>Number of case</th>
<th>Response sectorally</th>
<th>Response sectorally</th>
<th>No response</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maret</td>
<td>22</td>
<td>2</td>
<td>9</td>
<td>11</td>
</tr>
<tr>
<td>April</td>
<td>26</td>
<td>5</td>
<td>19</td>
<td>16</td>
</tr>
<tr>
<td>Mei</td>
<td>25</td>
<td>8</td>
<td>32</td>
<td>13</td>
</tr>
<tr>
<td>TOTAL</td>
<td>73</td>
<td>15</td>
<td>21%</td>
<td>38</td>
</tr>
</tbody>
</table>

15 of 73 case responses (21%) were done cross-sectorally, 38 of 73 case responses (52%) were sectoral and 20 of 73 cases (27%) were not responded. Most of the cases were responded sectorally, it’s is due to at the occurrence of cases, field officers do not have the same spare time to respond together because of many other tasks that must be done.

However, from March to May 2018, response activities that were carried out cross-sectorally increased 75% (2 to 8), and there was a decrease in the number of unresponsive cases as much as 175% (11 to 4).

The increase of join response cross-sectorally activities and the decrease of number of unresponsive case indicates that there is an increase in awareness of field officers about the importance of cross-sectoral joint response in controlling rabies as well as the importance of the response to each case of rabies-transmitted animal bites.

CONCLUSION

By using the WA messanger, during March to May 2018, 73 rabies-transmitted animal bite cases have been reported, 90% by public health officer. 21% (15/73) cases have been responded cross-sectorally, 52% of cases (38/73) have been responded sectorally, and 27% cases (20/73) were not responded.

This study illustrates that whatsapp messengers could be used and effective as a media to bridge field officers from the public health, animal health and wildlife health sectors in handling rabies-transmitted animal bite cases. It also could be used to evaluate performance of rabies control program done by public health, animal health and wildlife health officers in Bengkalis District.

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REFERENCES