On 6/2/34 three calves were injected subcutaneously with 5 cubic centimetres of an emulsion of M. Phlei and Liquid Paraffin. On 8/2/34 there were swellings at seat of injection. The calves were 5203, 5422, and 5301.

These were tested on 20/3/34 and 22/3/34 by means of a double Intradermal test using Tuberculin and an Extract prepared from M. Phlei. Doses were the same as for the usual Tuberculin test (Intradermal).

**RESULTS:**

20/3/34.

<table>
<thead>
<tr>
<th>Calf: to test</th>
<th>Phlei</th>
<th>Tuberculin</th>
<th>Phlei</th>
<th>Tuberculin</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>5301:</td>
<td>5 m.m.</td>
<td>20 m.m.</td>
<td>7 m.m.</td>
<td>20 m.m.</td>
<td>10 m.m.</td>
</tr>
<tr>
<td>5203:</td>
<td>10 m.m.</td>
<td>18 m.m.</td>
<td>13 m.m.</td>
<td>30 m.m.</td>
<td>18 m.m.</td>
</tr>
<tr>
<td>5422:</td>
<td>5 m.m.</td>
<td>28 m.m.</td>
<td>7 m.m.</td>
<td>46 m.m.</td>
<td>8 m.m.</td>
</tr>
</tbody>
</table>

Photograph of Calf 5422 attached, shows - Reaction to Phlein (marked) and behind it a slight darkened area which was the site of the Tuberculin injection.
## Deaths of Guinea Pigs Injected with Acid-fast Organisms, Not M. Tuberculosis and Liquid Paraffin - Subcutaneous and Intraperitoneal

<table>
<thead>
<tr>
<th>DATE</th>
<th>CASE</th>
<th>Infecting Organisms</th>
<th>Channel of Infection</th>
<th>IF Organisms Obtained in Smears</th>
<th>IF Cultivated</th>
<th>Lesions</th>
</tr>
</thead>
<tbody>
<tr>
<td>19/8/33</td>
<td>1</td>
<td>M. Phlei &amp; Liquid Paraffin</td>
<td>Intraperitoneal</td>
<td>Acid-fasts numerous</td>
<td>Cultivated easily</td>
<td>General lesions, liver, spleen, glands, large tube of fibrous tissue from point of injection to liver of T.B.</td>
</tr>
<tr>
<td>19/8/33</td>
<td>1</td>
<td>M. Phlei &amp; Liquid Paraffin</td>
<td>Intraperitoneal</td>
<td>Acid-fasts numerous</td>
<td>-</td>
<td>No lesions</td>
</tr>
<tr>
<td>20/8/33</td>
<td>1</td>
<td>M. Phlei &amp; Liquid Paraffin</td>
<td>Subcutaneous</td>
<td>Acid-fasts numerous</td>
<td>-</td>
<td>No lesions</td>
</tr>
<tr>
<td>3/9/33</td>
<td>1</td>
<td>M. Phlei &amp; Liquid Paraffin</td>
<td>Subcutaneous</td>
<td>Acid-fasts numerous</td>
<td>-</td>
<td>No lesions</td>
</tr>
<tr>
<td>20/8/33</td>
<td>1</td>
<td>M. Phlei &amp; Liquid Paraffin</td>
<td>Subcutaneous</td>
<td>Acid-fasts numerous</td>
<td>-</td>
<td>No lesions</td>
</tr>
<tr>
<td>30/8/33</td>
<td>2</td>
<td>M. Rabinowitz &amp; Liquid Paraffin</td>
<td>Subcutaneous</td>
<td>Acid-fasts present, numerous, also liquid Paraffin</td>
<td>Cultivated easily</td>
<td>Abscess, site of injection, and in liver inoculations</td>
</tr>
<tr>
<td>9/9/33</td>
<td>2</td>
<td>M. Rabinowitz &amp; Liquid Paraffin</td>
<td>Subcutaneous</td>
<td>Acid-fasts present</td>
<td>-</td>
<td>No lesions</td>
</tr>
<tr>
<td>9/9/33</td>
<td>2</td>
<td>M. Rabinowitz &amp; Liquid Paraffin</td>
<td>Subcutaneous</td>
<td>Acid-fasts present</td>
<td>-</td>
<td>No lesions</td>
</tr>
<tr>
<td>16/9/33</td>
<td>2</td>
<td>M. Rabinowitz &amp; Liquid Paraffin</td>
<td>Intraperitoneal</td>
<td>Acid-fasts present</td>
<td>Cultivated easily</td>
<td>Local abscess point of injection</td>
</tr>
<tr>
<td>20/9/33</td>
<td>2</td>
<td>M. Rabinowitz &amp; Liquid Paraffin</td>
<td>Intraperitoneal</td>
<td>Acid-fasts present</td>
<td>Cultivated easily</td>
<td>Local abscess point of injection</td>
</tr>
<tr>
<td>20/9/33</td>
<td>2</td>
<td>M. Rabinowitz &amp; Liquid Paraffin</td>
<td>Intraperitoneal</td>
<td>Unable to demonstrate</td>
<td>Not successful</td>
<td>Pin-point areas throughout liver, abscesses int. glands</td>
</tr>
<tr>
<td>31/10/33</td>
<td>3</td>
<td>M. Smegmatis &amp; Liquid Paraffin</td>
<td>Intraperitoneal</td>
<td>Acid-fasts numerous</td>
<td>Cultivated easily</td>
<td>Encapsulated abscesses near stomach - small white areas containing pus in liver</td>
</tr>
<tr>
<td>31/10/33</td>
<td>3</td>
<td>M. Smegmatis &amp; Liquid Paraffin</td>
<td>Intraperitoneal</td>
<td>Acid-fasts numerous</td>
<td>-</td>
<td>No lesions</td>
</tr>
<tr>
<td>31/10/33</td>
<td>3</td>
<td>M. Smegmatis &amp; Liquid Paraffin</td>
<td>Intraperitoneal</td>
<td>Acid-fasts numerous</td>
<td>-</td>
<td>No lesions</td>
</tr>
<tr>
<td>19/9/33</td>
<td>4</td>
<td>Moellers Mist Bacillus &amp; Liquid Paraffin</td>
<td>Intraperitoneal</td>
<td>Acid-fasts numerous</td>
<td>-</td>
<td>No lesions</td>
</tr>
<tr>
<td>3/10/33</td>
<td>4</td>
<td>Moellers Mist Bacillus &amp; Liquid Paraffin</td>
<td>Intraperitoneal</td>
<td>Acid-fasts numerous</td>
<td>-</td>
<td>No lesions</td>
</tr>
<tr>
<td>5/10/33</td>
<td>4</td>
<td>Moellers Mist Bacillus &amp; Liquid Paraffin</td>
<td>Intraperitoneal</td>
<td>Acid-fasts numerous</td>
<td>-</td>
<td>No lesions</td>
</tr>
<tr>
<td>31/10/33</td>
<td>4</td>
<td>Moellers Mist Bacillus &amp; Liquid Paraffin</td>
<td>Subcutaneous</td>
<td>Acid-fasts numerous</td>
<td>-</td>
<td>No lesions</td>
</tr>
</tbody>
</table>
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