First Aid instructions for Needle Stick Injuries involving livestock vaccines with a mineral oil adjuvant

Recommended treatment following accidental self-injection with Ovine Johne’s Disease vaccine (Gudair) or other livestock vaccines listed in Table 1 below.

**Category 1 injury (superficial skin exposure).** Simply wash the contaminated area. If vaccine material splashes onto the mucosal surfaces (e.g. eyes) there is a greater risk of local adverse reaction — consider using topical anti-inflammatory medication.

**Category 2 injury (simple needle stick injury without injection).** Treat symptomatically (e.g. wash skin, ensure appropriate tetanus cover, consider topical anti-inflammatory medication and oral antibiotics to prevent opportunistic infection).

**Category 3 injury (injection of vaccine material).** Acute pain and inflammation (redness) are usually evident within 24 hours. Perform early surgery (within 24 hours post accident) and drainage to remove the oil-based vaccine material before it spreads or elicits a severe granulomatous reaction (see contact details below). General practitioner should refer patient to specialist surgeon as soon as possible.

**Category 4 injury (lesion that has progressed to necrosis or granulomatous ulceration).** Perform surgical debridement to remove any residual vaccine material. Skin grafting may ultimately be required. General practitioner should refer patient to specialist surgeon.

### Table 1 Vaccines that may cause serious injury following NSI

<table>
<thead>
<tr>
<th>Vaccine</th>
<th>Manufacturer</th>
<th>Purpose</th>
<th>Species</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gudair</td>
<td>Pfizer</td>
<td>OJD control/prevention</td>
<td>Sheep</td>
</tr>
<tr>
<td>Pilliguard</td>
<td>Coopers</td>
<td>Pink eye control/prevention</td>
<td>Cattle</td>
</tr>
<tr>
<td>Vibrovax</td>
<td>Pfizer</td>
<td>Vibrisis control/prevention</td>
<td>Cattle</td>
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(* These surgeons have had surgical experience with Category 3 and/or 4 Needle Stick Injuries involving Gudair).