



## SOP 5.2 NEEDLES AND INJECTIONS

This standard operating procedure (SOP) can be used as a template.  
If you develop your own version, all required elements must be included.

PID#: .....

Site Manager: ..... Person in charge: .....

### PROTOCOL

Designated personnel must follow this protocol every time an animal is injected.		Applied On-Farm	Importance																								
1	The Site Manager must ensure the personnel in charge of this protocol are adequately trained.	<input type="checkbox"/>	Mandatory																								
2	Use only detectable needles.	<input type="checkbox"/>																									
3	Injections in a non-breeding herd animal must only be administered in the neck.	<input type="checkbox"/>																									
4	The hip injection site must only be used for breeding stock.	<input type="checkbox"/>																									
5	All other injections must be administered according to veterinarian instructions.	<input type="checkbox"/>																									
6	<p>Ensure the length and gauge of the needle are adequate for the pig's weight and the chosen injection site:*</p> <table border="1"> <thead> <tr> <th>Size of pig</th> <th>Needle Gauge</th> <th>Needle Length (Inches)</th> </tr> </thead> <tbody> <tr> <td colspan="3">Adult pig</td> </tr> <tr> <td>&gt; 125 kg</td> <td>16</td> <td>1-1/2</td> </tr> <tr> <td>30 to 125 kg</td> <td>16</td> <td>1</td> </tr> <tr> <td>20 kg</td> <td>16 or 18</td> <td>1 or 3/4</td> </tr> <tr> <td>10 kg</td> <td>18</td> <td>3/4</td> </tr> <tr> <td>5 kg</td> <td>18 or 20</td> <td>1/2, 5/8 or 3/4</td> </tr> <tr> <td>Piglet</td> <td>20</td> <td>1/2 or 5/8</td> </tr> </tbody> </table> <p>* In adults, it is recommended that no more than 10 mL be injected per site in the neck, and no more than 5 mL in the hip (see Fact Sheet F-5 Needle Usage and Selection of Injection Site).</p>	Size of pig	Needle Gauge	Needle Length (Inches)	Adult pig			> 125 kg	16	1-1/2	30 to 125 kg	16	1	20 kg	16 or 18	1 or 3/4	10 kg	18	3/4	5 kg	18 or 20	1/2, 5/8 or 3/4	Piglet	20	1/2 or 5/8	<input type="checkbox"/>	Mandatory
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7	<p><b>To reduce the risk of injection-site abscesses:</b></p> <p>a. Define a maximum dose per injection site according to the product used (it is recommended that no more than 10 mL per site be injected in adults and no more than 2 mL for piglets):</p> <table border="0"> <tr> <td style="text-align: center;"><b>Product Name</b></td> <td style="text-align: center;"><b>Injection Site</b></td> <td style="text-align: center;"><b>Maximum Dosage</b></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td colspan="3">_____</td> <td></td> </tr> <tr> <td colspan="3">_____</td> <td></td> </tr> </table>	<b>Product Name</b>	<b>Injection Site</b>	<b>Maximum Dosage</b>	<input type="checkbox"/>	_____				_____					Mandatory
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	_____														
	_____														
	b. Use adequate restraints.	<input type="checkbox"/>													
	c. Give the injection on clean skin.	<input type="checkbox"/>													
d. Change the needle if it becomes dull, burred or bent.	<input type="checkbox"/>														
e. Ensure needles, needle-free injectors and medications are stored appropriately.	<input type="checkbox"/>														
f. Maintain and clean syringes and needle-free injectors according to the manufacturer's instructions.	<input type="checkbox"/>														
8	<p><i>Other good production practices:</i></p> <p>_____</p> <p>_____</p>	<input type="checkbox"/>	Highly recommended												

## DEVIATION MEASURES

What happens if something goes wrong? If an error occurs, designated personnel must take the following corrective actions.		Applied On-Farm	Importance
1	<p><b>If the Needles and Injections SOP (SOP 5.2):</b></p> <ul style="list-style-type: none"> <li>a. has not been developed or is incomplete, or</li> <li>b. all mandatory measures have not been implemented adequately as planned,</li> </ul> <p>the Site Manager or the designated personnel must fix the deviation and record it on the record R-2 – Incident Report.</p> <p><b>Corrective Action Examples:</b></p> <ul style="list-style-type: none"> <li>- Develop and implement a Needles and Injections SOP (SOP 5.2),</li> <li>- Personnel training,</li> <li>- Ensure the appropriate needle is used (such as detectable, gauge, etc.)</li> <li>- Ensure the injection techniques are appropriate to reduce the risk of injection site abscesses.</li> </ul>	<input type="checkbox"/>	Mandatory

## RECORDS

Name of Record		Importance
R-2	Incident Report	Mandatory
R-4	Monitoring Record	Mandatory
R-B	Training Record	Mandatory

