

**Table H1 Methods of humane killing and euthanasia in rats and mice**

Recommended	Acceptable with reservations	Not acceptable
<b>Chemical</b>		
<ul style="list-style-type: none"> <li>Inhalant:               <ul style="list-style-type: none"> <li>– carbon dioxide<sup>e</sup></li> </ul> </li> <li>Injectable:               <ul style="list-style-type: none"> <li>– pentobarbitone sodium IP</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Inhalant:               <ul style="list-style-type: none"> <li>– isoflurane<sup>bde</sup></li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Inhalants:               <ul style="list-style-type: none"> <li>– ether<sup>bc</sup></li> <li>– hydrogen cyanide<sup>bf</sup></li> <li>– carbon monoxide<sup>b</sup></li> <li>– nitrogen<sup>f</sup></li> <li>– chloroform<sup>b</sup></li> </ul> </li> </ul>
<b>Physical</b>		
<ul style="list-style-type: none"> <li>None recommended</li> </ul>	<ul style="list-style-type: none"> <li>Cervical dislocation<sup>a</sup> (acceptable if stunned or anaesthetised first; possibly inhumane in animals heavier than 150 g)</li> <li>Decapitation<sup>ae</sup></li> <li>Stunning and exsanguination<sup>af</sup></li> </ul>	<ul style="list-style-type: none"> <li>Microwave irradiation (not yet proven to be humane)<sup>ce</sup></li> <li>Decompression<sup>ef</sup></li> <li>Asphyxia<sup>cef</sup></li> <li>Rapid freezing<sup>ce</sup></li> </ul>

IP = intraperitoneal

<sup>a</sup> Training required<sup>b</sup> Occupational health and safety issues<sup>c</sup> Inhumane<sup>d</sup> Expensive<sup>e</sup> Requires specialised equipment<sup>f</sup> Aesthetically unpleasant**Table H2 Methods of humane killing and euthanasia in guinea pigs**

Recommended	Acceptable with reservations	Not acceptable
<b>Chemical</b>		
<ul style="list-style-type: none"> <li>Inhalant:               <ul style="list-style-type: none"> <li>– carbon dioxide<sup>e</sup></li> </ul> </li> <li>Injectable:               <ul style="list-style-type: none"> <li>– pentobarbitone sodium IP</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Inhalant:               <ul style="list-style-type: none"> <li>– isoflurane<sup>bde</sup></li> <li>– nitrous oxide (must be used with other inhalants)<sup>b</sup></li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Inhalant:               <ul style="list-style-type: none"> <li>– ether<sup>bc</sup></li> <li>– hydrogen cyanide<sup>bef</sup></li> <li>– carbon monoxide<sup>b</sup></li> <li>– chloroform<sup>b</sup></li> </ul> </li> <li>Injectable:               <ul style="list-style-type: none"> <li>– no IV agents are acceptable</li> </ul> </li> </ul>
<b>Physical</b>		
<ul style="list-style-type: none"> <li>None recommended</li> </ul>	<ul style="list-style-type: none"> <li>Stunning plus exsanguination<sup>af</sup></li> <li>Cervical dislocation<sup>a</sup></li> </ul>	

IP = intraperitoneal; IV = intravenous

<sup>a</sup> Training required<sup>b</sup> Occupational health and safety issues<sup>c</sup> Inhumane<sup>d</sup> Expensive<sup>e</sup> Requires specialised equipment<sup>f</sup> Aesthetically unpleasant