

Recommended Methods of Euthanasia: *Canine / Swine / Sheep / Non-human primate*

Species	Method	Description
Canine / Swine / Sheep / Non-human primate (NHP)	Inhalant anesthetic overdose followed by bilateral thoracotomy	After inducing heavy sedation / light anesthesia using (<i>insert injectable sedative, dose in mg/kg, route & gauge needle</i>), inhalant anesthesia is provided by (<i>Indicate: Isoflurane or Sevoflurane</i>) in 100% O ₂ from a precision vaporizer and administered via face mask or endotracheal tube at [<i>indicate: >4.5 % (for Isoflurane) or >6.5 % (for Sevoflurane)</i>] and waste gas scavenged by (<i>state method</i>). Inhalant anesthesia is continued until lack of respiration occurs for > 60 seconds followed by bilateral thoracotomy to assure euthanasia.
	Inhalant anesthetic overdose followed by exsanguination	After inducing heavy sedation / light anesthesia using (<i>insert injectable sedative, dose in mg/kg, route & gauge needle</i>), inhalant anesthesia is provided by (<i>Indicate: Isoflurane or Sevoflurane</i>) in 100% O ₂ from a precision vaporizer and administered via face mask or endotracheal tube at [<i>indicate: >4.5 % (for Isoflurane) or >6.5 % (for Sevoflurane)</i>] and waste gas scavenged by (<i>state method</i>). Inhalant anesthesia is continued until lack of respiration occurs for > 60 seconds followed by rapid exsanguination using (<i>indicate method / vascular access points</i>) to assure euthanasia.
	Inhalant anesthetic overdose followed by major organ harvest.	After inducing heavy sedation / light anesthesia using (<i>insert injectable sedative, dose in mg/kg, route & gauge needle</i>), inhalant anesthesia is provided by (<i>Indicate: Isoflurane or Sevoflurane</i>) in 100% O ₂ from a precision vaporizer and administered via face mask or endotracheal tube at [<i>indicate: >4.5 % (for Isoflurane) or >6.5 % (for Sevoflurane)</i>] and waste gas scavenged by (<i>state method</i>). Inhalant anesthesia is continued until lack of respiration occurs for > 60 seconds followed by rapid removal of (<i>indicate tissues / organs</i>) to assure euthanasia.
	Induce cardiac arrest with potassium chloride under anesthesia	After inducing heavy sedation / light anesthesia using (<i>insert injectable sedative, dose in mg/kg, route & gauge needle</i>), inhalant anesthesia is provided by (<i>Indicate: Isoflurane or Sevoflurane</i>) in 100% O ₂ from a precision vaporizer and administered via face mask or endotracheal tube at [<i>indicate: >2.5 % (for Isoflurane) or >4.5 % (for Sevoflurane)</i>] and waste gas scavenged by (<i>state method</i>). Surgical depth of anesthesia will be verified by lack of response to (<i>indicate stimulus</i>) stimulus. Postassium Chloride (KCL) >2 mmol/ kg, in a minimum of 40 mLs final volume, is injected intravenously (IV) or intracardiac (IC). Cardiac arrest will be verified for a minimum of 1 minute prior to tissue harvest.
	Vital perfusion under inhalant anesthesia	After inducing heavy sedation / light anesthesia using (<i>insert injectable sedative, dose in mg/kg, route & gauge needle</i>), inhalant anesthesia is provided by (<i>Indicate: Isoflurane or Sevoflurane</i>) in 100% O ₂ from a precision vaporizer and administered via face mask or endotracheal tube at [<i>indicate: >2.5 % (for Isoflurane) or >4.5 % (for Sevoflurane)</i>] and waste gas scavenged by (<i>state method</i>). Surgical depth of anesthesia will be verified by lack of response to (<i>indicate stimulus</i>) stimulus. Vital perfusion will be performed using (<i>indicate name</i>) perfusate injected into the (<i>define point of vascular access or blood egress site</i>). Perfusate waste will be disposed of by (<i>indicate method of disposal</i>).
	Injectable anesthetic (Pentobarbital) overdose	After inducing heavy sedation / light anesthesia using (<i>insert injectable sedative, dose in mg/kg, route & gauge needle</i>), Pentobarbital (<i>state manufacturer</i>) is administered at ≥ 100 mg/kg intravascular (IV). Monitor animal until lack of heart beat is noted for > 60 seconds prior to tissue harvest or carcass disposal.