

BACKGROUND

Dogs are used for a range of pest animal control operations. This procedure provides advice on first aid and basic care for dogs used in these situations. It is written to prevent harm to dogs and encourage their humane treatment.

This standard operating procedure (SOP) is a guide only; it does not replace or override the legislation that applies in the relevant state or territory jurisdiction. The SOP should only be used subject to the applicable legal requirements (including OH&S) operating in the relevant jurisdiction.

APPLICATION

- This document is a guide for people using dogs for certain aspects of pest animal control. For example:
 - Mustering of feral goats
 - Flushing feral pigs and foxes out of vegetation prior to shooting
 - o Driving the last remaining rabbits underground prior to warren fumigation or destruction
 - o Protecting herd animals with guard dogs.
- When performing these procedures the welfare of the dogs may sometimes be at risk. All
 reasonable steps must be taken to safeguard the dogs from injury or distress, and appropriate
 training of dogs and their handlers is essential.
- A first aid kit should be carried at all times when there is a risk of injury (see Table below).
- If dogs are injured when performing pest animal control procedures, they should receive prompt first aid and veterinary treatment if required.
- All diligent care should be taken by owners and handlers for the safety of dogs involved in pest animal control operations.



| Important phone numbers | Equipment and supplies | Bandaging materials | Medicines and other |
|--|--|--|--|
| Veterinary clinic phone number and directions to the clinic Poisons Information Centre ph 13 11 26 | Spare collar and nylon leash Muzzle or roll of gauze for making a muzzle Scissors Tweezers Small flashlight or penlight Towel or blanket to use a as stretcher and another to keep the dog warm Splint – eg pieces of wood, aluminium rods (stiff but bendable) the same length as the dog's leg 2 pairs of thick socks to fit | Gauze sponges of various sizes, some sterile Roll gauze, 5 cm width Non-stick sterile pads Bandages – crepe, vetwrap cohesive Adhesive tape – eg elastoplast | Electrolyte solution such as Lectade®, plus water for reconstitution Emetic – eg washing soda crystals, dilute hydrogen peroxide solution (3% solution) plus dosing syringe Eye wash solution- sterile water or saline Antiseptic solution – eg Betadine® Container of cool, |
| | dog's paws loosely, and adhesive tape to attach Latex gloves | | fresh water for drinking, cleaning and cold compresses |

INJURIES AND FIRST AID

- The most common and/or important injuries which occur to dogs used in pest animal control include: lacerations; haemorrhage; bone fractures; dehydration; snake bites; poisoning; eye injuries; burns; hyperthermia and hypothermia.
- Injured dogs may suffer shock.
- The most extensive or severe injuries may necessitate emergency euthanasia.



Otherwise if there are injuries such that movement and handling appear to be painful, a
veterinarian must be consulted. Handlers should take care to avoid being bitten; dogs that are
in pain or distress can bite in self-defence. Always muzzle an injured dog before handling or
moving it, unless it is unconscious, has difficulty breathing, is vomiting or has a mouth injury.

EMERGENCY PROCEDURES

Lacerations

Small cuts which stop bleeding within a few minutes will generally require little attention other
than to keep them clean. Depending on the size and the degree of wound contamination,
suturing and/or the use of antibiotics may be appropriate. These should be carried out by a
veterinarian, but would not require immediate attention.

Haemorrhage

- Larger wounds or those which involve major blood vessels may continue to bleed profusely. This blood loss may be life threatening and should be stemmed by the application of direct pressure to the wound using swabs / towels / bandages or similar. The dog should be presented for veterinary attention immediately. Severe blood loss will result in haemorrhagic shock, where vital organs are starved of blood supply and death results. A tourniquet may be used where haemorrhage from a limb cannot be controlled by direct pressure. The tourniquet must be tied between the top of the leg and the wound and loosened for 20 seconds every 15 minutes. A tourniquet is dangerous and should only be used in life-threatening haemorrhage of a limb. It may result in amputation or disability of the limb.
- Haemorrhage may also occur internally into the abdomen or chest, where the lost blood cannot
 be seen. This may occur after blunt injuries such as being hit by a car or trampled by a large
 animal. The bleeding may not be apparent until signs of shock develop (see below). In some
 cases, bleeding may be seen from the nose, mouth, rectum, in urine or coughed up. The extent
 of internal bleeding is difficult to assess and so these animals require immediate veterinary
 attention.

Shock

- Loss of large amounts of blood will result in vital organs obtaining insufficient blood to function.
 This is an emergency which requires immediate veterinary attention. Signs of shock include:
 collapse, weak or rapid pulse, shallow rapid breathing, disoriented appearance, pale-almost
 white-mucous membranes (eg gums and conjunctiva).
- The dog should be kept quiet and warm. If possible, keep the head at or below the level of the rest of the body.

Dehydration

• Long periods without sufficient water, especially in hot weather, or protracted vomiting/diarrhoea can cause the dog to become dehydrated. A sign of dehydration is that the skin on the back of the neck, when pulled up, does not spring back to its normal position within about a second. Severe dehydration may also result in shock (see above).



• Treatment involves administration of fluids by a veterinarian. In the interim, if the dog is not vomiting, fluids such as water or Lectade® (an electrolyte solution available from a vet) can be given by mouth in frequent small doses.

Snake bites

- Bites from many Australian species of snake can kill a dog within minutes if sufficient venom is injected. Signs of snake bite include swelling and bruising around the bite; vomiting; paralysis of hind limbs, progressing to the entire body and; nervous signs such as twitching and drooling. Signs of shock may become apparent.
- If snake bite is suspected:
 - Attempt to identify the snake, but do not get bitten! Do not attempt to kill the snake for the purposes of identification.
 - If the bite can be seen on a limb, bandage the whole limb firmly but not tightly. This
 may slow the spread of the venom from the bite site.
 Do not wash the bite site. Venom at the site may be used to identify the type of snake.
 - Attempt to keep the dog calm and still. If possible carry the dog to the car (as any
 movement may cause the toxin to spread faster) and seek immediate veterinary
 attention.

Tick paralysis

- Found in coastal areas of Eastern Australia, particularly in bushland, the paralysis tick, Ixodes holocyclus, injects a toxin when attached to feed on the blood of dogs, cats and other animals. This toxin causes a neuromuscular paralysis which usually begins in the hindlimbs and progresses to affect the forelimbs and muscles of breathing and swallowing. Dogs usually die from respiratory arrest or complications such as pneumonia. Signs usually start with an unsteady hindlimb gait, progressing to a reluctance or inability to walk, change in bark, cough, vomiting or regurgitation and laboured breathing. The time from tick attachment to the appearance of clinical signs can range from less than 24 hours to a week or more, but generally takes a couple of days. On short trips, signs often appear only once the dog has returned home, but on longer expeditions, they may appear while still in the field.
- First aid treatment is limited. The dog should be repeatedly checked all over for ticks, which should be removed, with the mouth parts if possible, and saved for identification. If signs appear, the dog should be kept calm in a cool environment and not offered food or water (except in high temperatures or humidity and only if the dog is still able to swallow normally), and presented for immediate veterinary attention. The chance of recovery is highest for those dogs treated when the signs are still mild.
- Try to prevent tick paralysis by closely examining the dog for ticks at least once daily, including between the toes, in the ears and mouth and under the tail, and removing any ticks. Application of a 'spot-on' or spray product licensed for the control of paralysis ticks in dogs at the recommended intervals will decrease the risk of tick paralysis but daily inspections should still be carried out.



Poisoning

• The symptoms and treatment of poisoning depend on the nature of the poison. For instance, dogs poisoned with 1080 should be made to vomit if not yet showing signs of toxicity, whilst vomiting should not be induced when an animal has ingested a corrosive or caustic substance. Some poisonings may be treated with specific antidotes whilst others can only be helped by providing supportive treatment. Standard Operating Procedures for the control of pest animals which involve a risk of poisoning give more specific advice on each poison. However, the dog should be presented to a veterinarian for assessment and treatment.

Hyperthermia (heat stroke)

- Long periods of exercise in high temperatures, especially with limited access to water, or a
 period inside a car even in relatively mild temperatures, can cause failure of the dog's cooling
 system and the body temperature can rise to levels which threaten life. Signs include excessive
 panting, collapse, increased heart and breathing rates, salivation, reddened mucous
 membranes and convulsions or coma. The body temperature should be measured using a
 rectal thermometer and may exceed 43°C.
- The dog should be taken away from the source of heat and cooled by the use of running cold water, electrical fans or cold water soaked sheets. This should be continued until the body temperature falls to 40°C, then discontinued. Even after cooling, serious complications can develop and the dog should be given veterinary attention.

Hypothermia (low body temperature)

- Dogs exposed to cold, wet, windy weather, especially if old, injured or undernourished, can lose their ability to maintain their body temperature. Hypothermia may be defined as a body temperature of 35°C or below. If body temperature falls to 25°C or below, it is unlikely that the dog will survive. Hypothermic dogs feel cold to touch, have a decreased heart rate, weak pulse and pale mucous membranes. They may be shivering or semi/unconscious.
- They should be placed somewhere warm, wrapped in a blanket and have a hot water bottle
 wrapped in a towel placed on or under them. Do not try to raise the dog's temperature too
 quickly. Supply these first aid measures and seek immediate veterinary attention. Body
 temperature must only be raised slowly over a period of hours. Even then, potentially fatal
 consequences may still occur.
- Note that dehydration commonly occurs with both hyper- and hypothermia and this should be addressed.

Eye injuries

Common eye injuries include penetrating wounds (eg from branches) and foreign bodies in the
eye. In both cases the dog is likely to paw or scratch at the eye making the condition worse. If a
foreign body (eg. grass seed) is suspected, the eye should be held open and flushed with
sterile saline or water. An Elizabethan collar can be attached to the dogs collar to prevent it
from scratching at the eye and causing further damage. Undislodged foreign bodies or



ulceration of the eyeball will require veterinary attention. Penetrating injuries to the eyeball will require immediate veterinary attention.

Fractures

- Commonly fractures occur as a result of trauma and areas most often affected are the legs and pelvis. All fractures require veterinary attention. However, the case is more urgent where it is accompanied by profuse bleeding or signs of shock.
- Signs of fracture include lameness, pain, inability to use one or more limbs and changes to the shape of limbs. An open fracture may show bone ends protruding through a wound in the skin. If a fracture is suspected:
 - o Gently lay animal on a board, wooden door, tarp, etc padded with blankets.
 - Secure the animal to the support.
 - o Do not attempt to set the fracture.
 - o If a limb is broken, wrap the leg in cotton padding, then wrap with a magazine, rolled newspaper, towel or two sticks. Splint should extend one joint above the fracture and one joint below. Secure with tape. Make sure wrap does not constrict blood flow.
 - o If the spine, ribs, hip, etc appear injured or broken, gently place the animal on the stretcher and immobilise it if possible.

Burns

- Burns may occur from contact with chemicals or fire/hot surfaces. Severe (deep and/or extensive) burns will result in loss of body fluids and may result in dehydration and shock and require immediate veterinary attention.
- The affected skin should be flushed with cold water for at least ten minutes. The burn should then be covered with a clean non-stick dressing and the dog presented for veterinary attention.

Euthanasia

- Euthanasia of dogs should be carried out by a veterinarian. If this is not possible, a gunshot to the head may be the next best option. This should be undertaken only by a fully competent, licensed person, taking special care to safeguard people and other animals in the area. The welfare of the dog being shot must be given prime consideration.
- Smaller calibre rifles such as a .22 rimfire or .22 magnum rimfire with hollow/soft point ammunition are recommended for euthanasia at close range (<5 m).
- Shots must be aimed to destroy the major centres at the back of the brain near the spinal cord. This can be achieved by one of the following methods (see Diagrams 1, 2 and 3):



Frontal position (front view)

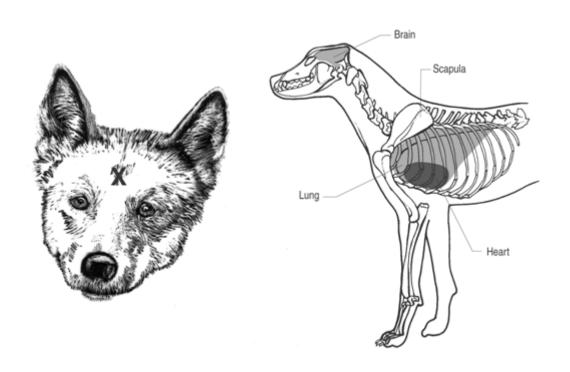
The firearm is aimed at a point midway between the level of the eyes and the base of the ears, but slightly off to one side so as to miss the bony ridge that runs down the middle of the skull. The aim should be slightly across the centreline of the skull and towards the spine.

Temporal position (side view)

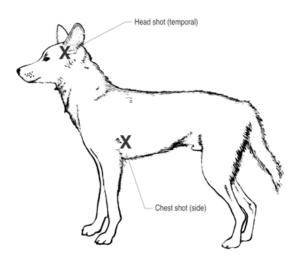
The firearm is aimed horizontally at the side of the head at a point midway between the eye and the base of the ear.

- Death of shot animals should always be confirmed by observing the following:
 - o Absence of rhythmic, respiratory movements
 - Absence of eye protection reflex (corneal reflex) or 'blink'
 - o A fixed, glazed expression in the eyes
 - Loss of colour in mucous membranes (become mottled and pale without refill after pres sure is applied). If death cannot be verified, a second shot to the head should be taken immediately.

Recommended shot placements for wild dogs







Note: Head shots (temporal or frontal) should be used for shooting wild dogs caught in traps. In order: Side view, Side view (skeleton), Head shot (frontal)



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