Natural History / Behaviour

- Snakes are ectothermic: their body temperature is influenced by their surroundings
- All snakes are independent from time of birth/hatching there is no such thing as an 'orphaned snake'
- Large non-venomous species (e.g. Carpet Pythons) should be rescued/handled by experienced reptile handlers ONLY and should only be handled in the presence of another experienced snake handler.
- Do not rescue/handle any species unless you are 100% certain of the species and that it is non-venomous.
- Venomous snakes must only be rescued/handled by an appropriately trained and licenced person. Please refer to a Wildcare Reptile Coordinator or licensed snake catcher for assistance.

Common Species of South-east Queensland

Carpet Python	Morelia spilota McDowelli	> 3 m
Spotted Python	Antaresia maculosa	> 1 m
Common Tree Snake (or Green Tree Snake)	Dendrelaphis punctualatus	> 2 m
Freshwater Snake / Keelback	Tropidonophis mairii	> 0.75 m

Note: Common non-venomous species listed only.

For a complete list of all lizard species found in South-East Queensland, refer to a reptile field guide such as 'A Field Guide to Reptiles of Queensland' by Steve Wilson.

Basic Rescue Equipment and Emergency Housing

- Snake handling kit including:
 - Hoop and bag
 - Snake hook (suitable for the size/weight of the snake)
- Snake bite first aid kit
- Cotton pillowcase with tie (suitable for small snakes)
- Large cotton bag (~1m x 1m) for very large pythons
- Plastic tub with smooth sides and well-secured lid. Small holes must be drilled in lid sufficient to provide air flow. Place towel on bottom for support.
- Heat source: Snugglesafe heat disk under a towel at one end of the enclosure. Ensure sufficient room so the snake can move onto or away from it freely. If not sufficient room to move away from a heat source, do not include in emergency housing.
- Note: When using any heat source, the animal MUST be able to move away from the heat source to avoid thermal injury. Please refer to Reptile Species Coordinator before providing a heat source.



Photo: Karen Scott

OHS Considerations / Zoonoses

Beware of

- Teeth / Mouth
- Misidentification (possibly venomous)
- May wrap around your hand/ arm tightly (watch your fingers). Handle large pythons only in the presence of another experienced rescuer.
- Never put a python over your shoulders, they have the potential to wrap around your neck and constrict.

Known Zoonotic Diseases

- Reptiles known to carry salmonella ensure excellent hygiene when handling
- No other specific zoonoses

Handling

Use one hand to gently but firmly grasp the snake from behind its head, then hold the rest of the body with the other hand.

Use a snake pinner if you are not confident with restraining.









Assessment Checklist - Snakes

Clinical Signs	Healthy / Normal	Sick / Injured
Demeanour	 Bright, alert and looking around Responsive (struggles strongly when handling) Conscious Regular tongue flicking 	 Quiet / depressed Distressed Non-responsive when handled Not responding to stimuli Unconscious (Indicative of shock, dehydration, injury)
Mobility	 Able to move entire body freely No bruising or swelling No obvious abnormalities or lack of symmetry 	 Abnormalities in movement (e.g. only using part of the body). Head tilted to one side Paralysis (trauma) (Indicative of trauma related injury)
Body Condition, skin and scales	 Good body condition Good muscle tone Scales are shiny and undamaged Non-odorous smell 	 Open wounds Puncture wounds Poor body condition (malnourished) Lack of muscle tone Offensive odour (chronic disease or old wounds) Dull, damaged scales (chronic disease or shedding) Flaky, dry skin/scales (chronic illness) (Indicative of trauma or chronic illness/disease)
Breathing	Normal – Slight movement of chest with each breath – no noticeable effort. (Note: handling may result in increased respiration rate)	 Open-mouthed breathing Laboured (noticeable effort to breath) Audible breathing sounds (clicking, ticking, gurgling sounds) Sneezing or coughing (Indicative of trauma related injury, poisoning)
Head	Symmetrical	 Abnormal symmetry Indentations Swelling Crepitation Lacerations/abrasions
Eyes	 Bright and clear Shiny Opaque eyes (if shedding) 	 Dull (pain/dehydration) Sunken (dehydrated) Closed (pain/dehydration) Protrusion (trauma) Swelling (trauma) Clear fluid (trauma) Nystagmus (head trauma) Unequal pupil(s) (trauma) Unreactive pupil(s) (trauma) Purulent discharge (infection)
Nose/snout	Straight No discharge or bleeding	 Distorted (trauma - fracture) Blood or other discharge (purulent infection) from nostrils (trauma) Abrasions (trauma) Swelling (trauma)

Assessment Checklist - Snakes (continued)

Clinical Signs	Healthy / Normal	Sick / Injured
Mouth	 No discharge Symmetrical Teeth and tongue undamaged 	 Mal-aligned jaw (trauma) Broken teeth (trauma) Blood (trauma) Swelling (trauma) Crepitation (trauma) Slow capillary refill time (shock/dehydration)
Cloaca (vent)	 Clean Free from discharge Hemipenes not exposed 	 Blood Lacerations Swelling Hemipenes prolapsed (trauma) (Indicative of trauma related injury)
Tail	 Straight Missing tail (old injury) Good grip (in prehensile tails) 	 Swelling Lacerations Lack of movement Missing tail (fresh injury) (Indicative of trauma related injury)
Parasites	Some ticks are normal	Over abundance of ticks (chronic illness) Fly blown / Maggots (trauma)

Assessment Parameters

Vital Signs	Heart Rate	Variable between species
	Respiration Rate	Variable between species
	Core Body Temperature	Variable between species
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Preferred Ambient Temperature	Carpet Python	29°C - 33°C
	Green Tree Snake	32°C
	Source: Caring for Injured Native Reptiles and Frogs (Dr. A. Fowler)	
Signs of Stress	 Attacking/striking/defensive strike position Urination, defecation 	
Signs of Pain	 Non-responsive 	 Not moving from or to heat source
oigno oi i um	Not seeking cover	Aggressive behaviour
	Writhing with mouth open	Constant movement
Ciana of Debudantian	Thick mucous in mouth	Lack of skip elacticity/skip tenting
Signs of Dehydration		Lack of skin elasticity/skin tenting Latheren
	Dull eyes	• Lethargy
	Sunken eyes	Excessive sloughing of skin
Assessment of Body Condition	Spine – feel for good muscle cov	verage over backbone
nococcincin of Dody Condition	Skin/Scales - should be in good	

Emergency Diet

Do not offer any food or water to an animal suffering from injury (e.g. vehicle hit, dog/cat encounter etc). Injured wildlife must be presented to a veterinarian for treatment before offering food or water. Alternatively, please consult with your relevant Species Coordinator.

Adults

- Thawed frozen rats/mice
- Fresh water

Note: Do not offer food until instructed by the Reptile Coordinator.

Snakes can go for lengthy periods without food if in good body condition and well hydrated.

Common Injuries, Diseases and Conditions

Adults

- Road trauma injuries (head injuries, jaw and skull fractures, internal injuries, eye injuries)
- Dog or cat attack (puncture wounds, open wounds, evisceration, internal injuries) Note: cat attack injuries often difficult to visualise
- Entanglement from fruit netting, discarded netting, wire netting (lacerations, soft tissue damage)
- Lacerations from lawn mowers or brush cutters

Drug Administration (preferred routes)

Oral Not appropriate for snakes

Intramuscular Lumbar muscle parallel to the spine, cranial 2/3 of snake

Subcutaneous Loose skin on either side of the spine, cranial 2/3 of snake

Intravenous Ventral coccygeal (tail) vein

Euthanasia (preferred methods)

Euthanasia methods stated to assist veterinary staff.

Wildlife volunteers must not euthanise unless trained to do so or they hold appropriate approvals.

- Injection of sodium pentobarbitone (Lethabarb) after induction with Alfaxan CD-RTU preferred):
 - Intravenous
 - Intracardiac (must be anaesthetised first)
 - o Intraperitoneal (dilute with water 50:50)
- Blunt force trauma to the head (small snakes only) only if trained to do so
- Euthanasia by placing in freezer is NOT ACCEPTABLE and is INHUMANE.

Suggested Drugs and Dose Rates

This information is provided for **VETERINARY USE ONLY** to assist veterinary staff with the **initial assessment** and **emergency treatment** of sick, injured and orphaned wildlife. Suggested drugs and doses are those commonly used by the wildlife hospitals in South-east Queensland and are for routine treatment only. Recommendations may vary between individual veterinarians. Culture and sensitivity results would indicate the most appropriate antibiotic regime. Most drugs are used off-label.

Anaesthetic

Drug	Composition	Dose Rates
Isoflurane ®	Isoflurane 100%	5% for induction and 2-3% for maintenance with oxygen flow rate of 1-2 litres per minute.
Alfaxan CD RTU ®	Alphaxalone	5mg/kg (IV) 10mg/kg (IM) Patient should be warmed to ensure effective anaesthetic induction.

Analgesic

Drug	Composition	Dose Rates
Torbugesic ®	Butorphanol Tartrate	1-2mg/kg SC or IM BID
Metacam ®	Meloxicam	0.4 mg/kg SC or IM EOD

Antibiotics

Drug	Composition	Dose Rates
Fortum ®	Ceftazidime	20 mg/kg Q3D IM
Baytril ®	Enrofloxacin	5-10mg/kg EOD
		(IM or SC – must be diluted at least 50:50 with sterile water)

Anatomy

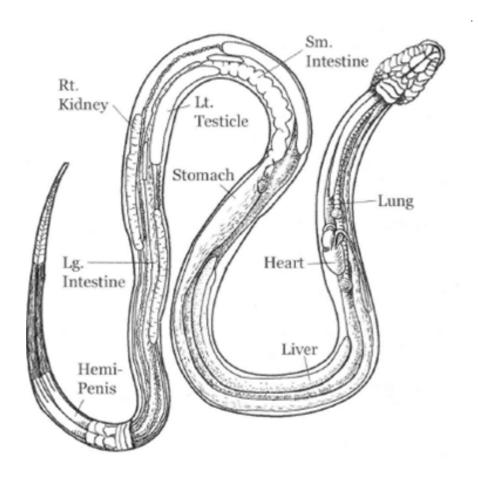


Diagram Above: Visceral anatomy

Diagram Right: Oral cavity

Source: Exotic Animal Medicine for the Veterinary Technician (Ballard & Cheek)

