Basic Reptile Rehabilitation



- Know your local species
 - Visit and work with nature centers
 - ➤ Hike/get out in the field





Know your local species



Male Three toed box turtle



Know your local species

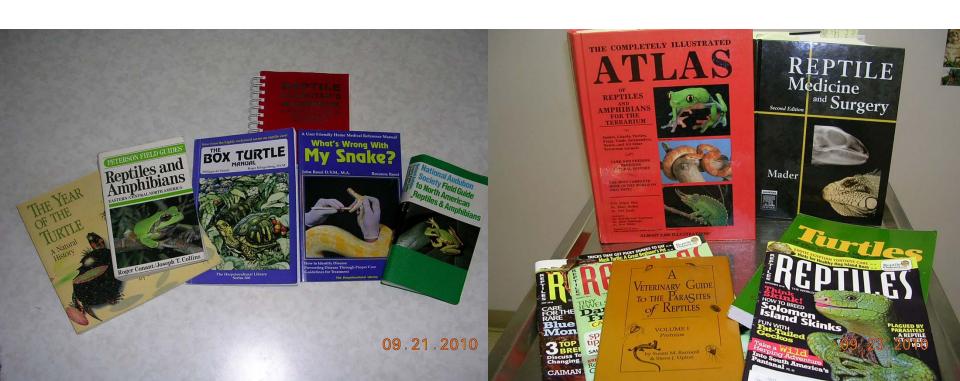
Who is this???





Blandling's turtle

- Know your local species
 - >Study resources: see resource handout
 - ➤ Take part in herptile counts



- Sexing the patient
 - Turtles-males longer, wider tails and cloacal opening is beyond edge of plastron
 - ✓ Aquatics- males also have longer front nails

✓ Box turtles- males also have a concave plastron



Female+ male three-toed box turtles



Male and female three-toed boxes

- Sexing the patient
 - ➤ Snakes- probe vent w/ snake sexing probe or tom cat catheter
 - Only for experienced handlers
 - ➤ Females measure 3-4 ventral abdomen scales and males measuring 5- and up



- Sexing the patient
 - Lizards-males have enlarged femoral pores and are often larger and brighter



- Sexing the patient
 - May need to provide a nesting box

May need to salvage eggs from a euthanized female





- Be ready for common seasonal species
- Know and discuss endangered and threatened species cases with DNR

Meet your DNR herptile specialist

Venomous herptiles







Lizards

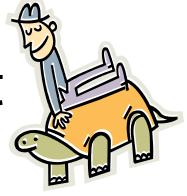
Transport in a critter carrier or Rubbermaid type container

Handling: grasp behind neck and support rest of









Turtles

- ➤ Transport in buckets or Rubbermaid type container
- Use shields or plunger for snappers

> Place on cup or other appropriate container to

place turtle on



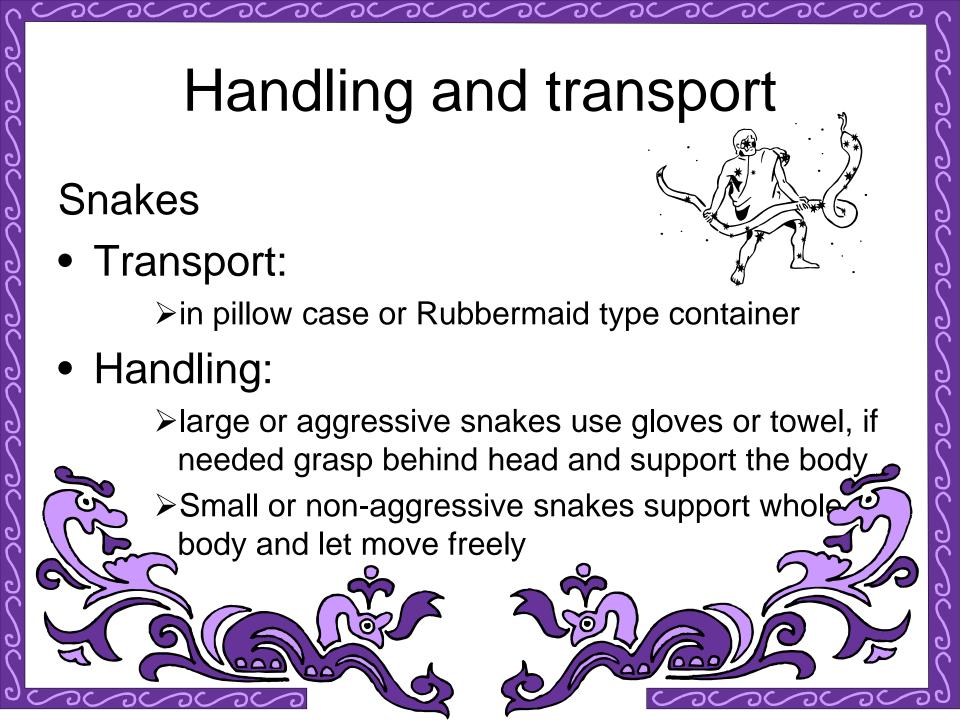
Florida box turtlemale

Turtles

➤ Handle on either side of carapace (snappers, use extreme caution!)







Snakes-handling



Juvenile fox snake

Exam and record keeping

- Use a check in/record sheet and be accurate: see check in sheet handout
- Use a systematic exam technique that is the same each time
- Get weights on everyone



Basic Amphibian Care

- Use non-bleached white paper towels for substrate
- Keep at 65-72 degrees and 75-95% humidity until researched species
- Use water aged at least 24 hours with no top in container
- Provide hide box

Housing:

Pools, cement mixing tubs, water troths, tanks and home made enclosures

Snake enclosure 03.13. Turtle tub

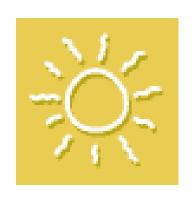
Housing

Water troth



Amphibian enclosure





Lighting

- Natural, full spectrum bulbs (UVB+UVA) like Zoo-med brand
 - ➤ Have no more than 12 inch away from patient and change bulb after 1 year of use

➤ Use a timer to have lights go off in 12-14 hours



- Heating
 - ➤ Submersible heaters, heat lamps, ceramic heat emitters and under tank heaters



Desert lizard enclosure

Nutrition

- Live, frozen, fruits and veggies, commercial foods and supplements
- Enrichment
 - >Stimulation, reduces stress and increase wellbeing



- Cleaning
 - Use chlorhexidine diluted 8oz/gal, only use for 1 week after mixing
 - ➤ Use diluted beach 1/2 tbsp/gal with cool water and let dry, for supplies in between patients



Common reasons for herptile rehabilitation

- Hit by car injuries
- Lawn mowers and weedwackers
- Dog and cat attacks
- Displaced: need short relocation or over wintering
- Fish hooks
- Human abuse: the public needs to be educated



Common reasons for herptile rehabilitation

Take time to educate!!!





Lydia releasing a garter snake

You need to find and work with a reptile veterinarian

- Why is this so important?
 - ➤ To get prescription medications with the correct does
 - >Humane euthanasia
 - **>** Surgery
 - ➤ Radiographs: gravid? fractures?
 - ➤ Share knowledge and resources
 - See: Association of Reptile and Amphibian Veterinarians @ www.arav.com

Why you need a reptile vet

Radiographs





Why you need a reptile vet

Radiographs



Fox snake

Gravid snapping turtle

Why you need a reptile vet

Surgery





Common Treatments

- Fluids: Use Normasal or Plasma-lyte
 - ➤ Give 10ml/kg/day fluids warmed to 85 degrees
 - ➤ Give I.C. or S.Q.
 - ➤ Clean skin with dilute chlorhexidine, swab w/ alcohol and wipe dry

Common treatments



Injections

- ➤ Antibiotics: Commonly used, Amikacin 50mg/ml give I.M. 1st dose give 5mg/kg then ½ dose every 72 hours for 5 treatments
- ➤ Pain meds: Commonly used, Meloxicam S.Q. 0.5-1mg/kg every other day for reptiles. For amphibians give 0.1-0.2mg/kg P.O. once daily.
- ➤ Vital E-A&D: 0.15ml/ kg give I.M. repeat in 3weeks

Common treatments

Soaks

➤ Diluted betadine and medication soaks are often used for herptiles with wounds and fungal infections



Amphibian abrasion protocol

- Diluted betadine soaks for 10 minutes once daily, then rinse
- Gentamicin opth. Drops 1 drop to abrasion twice daily
- Metacam P.O. once daily
- Silver sulfadiazine cream 1% apply to abrasion once to twice daily, can also use on shell fractures

Common treatments

- Shell fracture stabilization
 - ➤ Use white medical tape across fracture site to pull in
 - ➤ Use super glue on ends of tape only

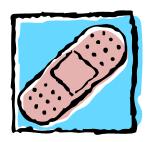
➤ Apply Tregaderm





Common treatments

- Shell fracture repair
 - ➤ No longer use fiberglass patches
 - ➤ Use super glue to position tie mounts in place
 - ➤ Cover with Devcon 2-ton epoxy.
 - ➤ Pull together with zip ties





- Shell fracture repair
 - ➤ See failed technique





- Flushing wounds
 - ➤ Warm flush to 85 degrees
 - >Use sodium chloride fluids
 - ➤ Use eye protection, gloves and mask
 - ➤ Use 60ml syringe with a 18 gauge needle
 - >Apply sterile lobe to open tissue to keep moist





Wound flushing





Wound flushing



Box turtle with maggots

Post mortem egg removal and salvaging

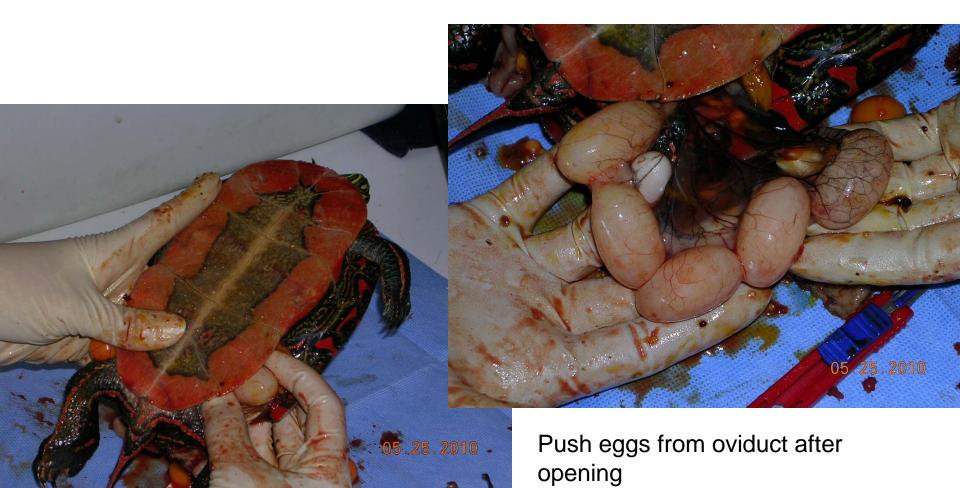
➤ Saw open shell on turtles at bridges if needed

➤ Use scalpel to cut all around plastron for

removal



Post mortem egg salvaging



- Post mortem egg salvaging
 - > Set up incubator
 - ➤ Place eggs in moist vermiculite at 82-85 degrees



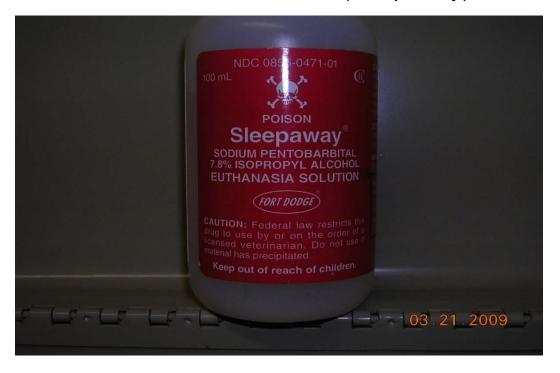
Baby painted turtles- 60 days incubation



Euthanasia

 See acceptable methods in the Minimum Standards for Wildlife Rehabilitation

Use Soduim Pentobarbital (sleepaway)



Euthanasia

- Reptiles: 0.8ml/1# I.C. or I.V.
- Amphibians: >100mg/kg P.O. or I.V.
 - ➤ Snakes and lizards- 2or more inches above vent
 - >Turtles into coelom from hind leg opening



Euthanasia

Don't make the decision alone



Blind blanding's turtle

Release

- Release criteria
 - Must be able to see and self feed
 - ➤ To prevent disease transmission- Must have been kept isolated from other reptiles
 - Genetic factors-they have evolved in response to local environmental factors, introducing could be detrimental

Release

- No later than 6 weeks prior to normal hibernation period
- At closest proximity to original site
- Not releasable if in rehabilitation longer than 1 year
- Use Google maps to find closest water



Questions?

 Questions or problems about herptile husbandry or veterinary care? Feel free to call Terri 920-915-1084.

Email:tcassens@new.rr.com

