

WRNC Training

Rehabilitating Opossums 101

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Topics we will be covering:



- General Information
- Body Features
- Stages of Development
- Feeding / Diet
- Housing and Care
- Release



General Information

- Marsupial
- Solitary
- Grow throughout their lives
- Short Life Span
- Low Body temperature
- Resistant to rattlesnake venom

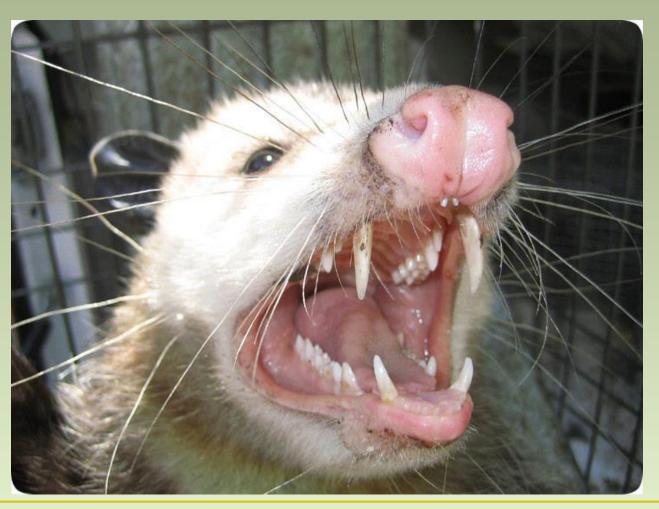






Teeth

Have more teeth than an other North American mammal!





Prehensile Tail











Marsupium(females)









Hands/Feet





Opposable thumb on rear foot



Tracks









- Born after only 13 days in uterus
- Blind, hairless and partially formed
- Crawl from vulva to the mother's pouch
- Attach to a nipple
- Remain attached for more than two months
- Begin to leave pouch
- Weaned and fend for themselves





Before Birth





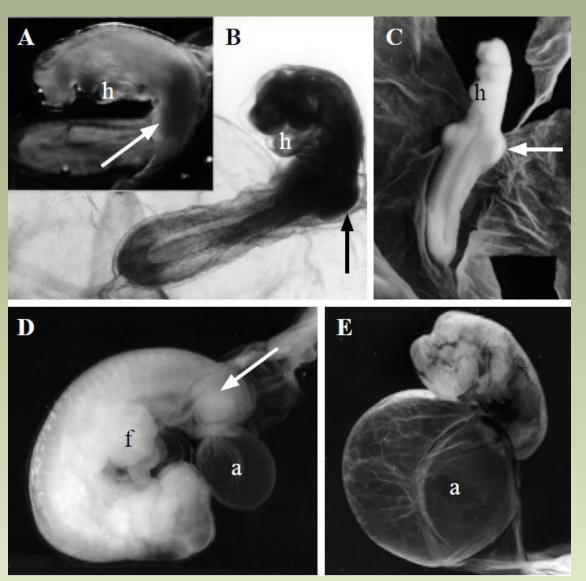
8 day gestation



9 day gestation

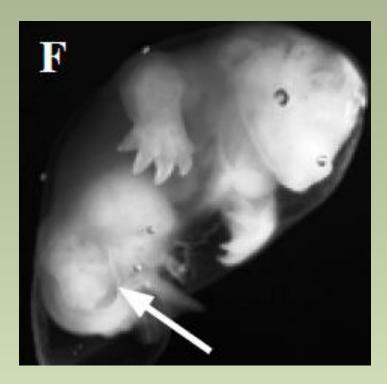


Before Birth
10-11 day gestation





Before Birth

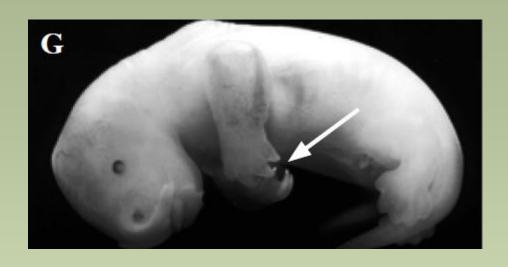


11-day gestation





Before Birth



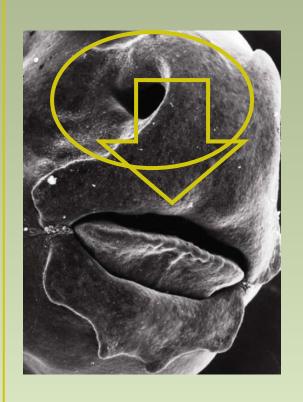
12 day gestation





Before Birth

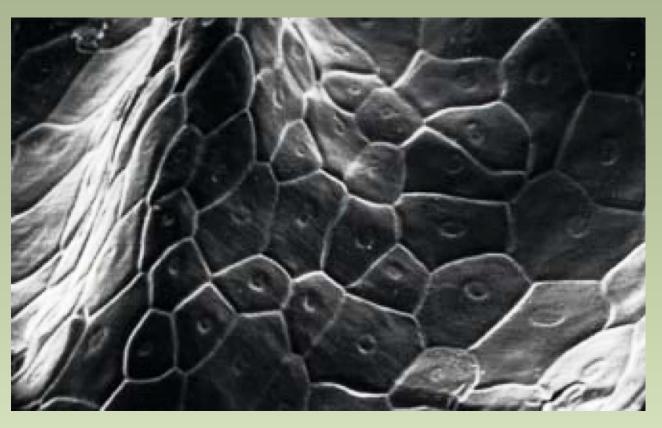
13 day gestation







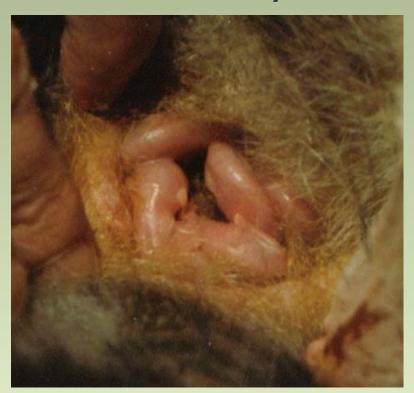
Stages of Development Birth



Periderm covering external surface of newborns



10 to 15 days



20 to 25 days





25-30 days







40-45 days





60 days





Feeding / Diet





Tube Feeding

Why use it?

Used for infants and adolescents unwilling or unable to eat





Tube Feeding

What to use?

For infants up to 60 days use a syringe with a French size 3.5 feeding tube attached

After 60 days can use a syringe with a French size 5 feeding tube attached.





Tube Feeding

How to do it?

Learn how to insert feeding tube from someone who is experienced

If done improperly injury and death can result



Tube Feeding Procedure

- •Do other procedures first (weighing & meds)
- •Stimulate
- Measure tube
- •Tape tube
- •Attach tube to syringe
- •Release air bubbles





Tube Feeding Procedure

- Position animal
- •Insert tube and slide it down
- •Release fluid
- •Flush syringe and tube
- •Sterilize tube





Demonstration





Use 2-box or 2-pouch procedure







Amount to Feed



- •Infants initially fed every 3 hours, eyes open 4 times per day
- •Feed 50cc per kg (.05cc per gram)
- •Should start lapping by around 50 grams



Formula Preparation & Storage

- •Mix fresh daily, refrigerate between feeding, heat only amount used per feeding, discard unused warm formula
- •Heat over hot water, don't boil or heat in microwave
- •Test temperature of formula. It must be warm
- •Don't use same feeding implement across litters
- •If water quality is poor, use distilled water



	% Solids	% <u>Fat</u>	% Protein	% <u>Carbo</u>
Barker, et al.	23.2	11.3	8.4	1.6
Jenness and Sloan	24.4	7.0	4.8	4.1
Esbilac + MMilk+H ₂ O	21.7	10.5	7.3	2.3
1 1/2 2 Esbilac+WCream+H ₂ O	20.6	12.5	4.5	2.5







 $+ H_2O$

1 1/2 2



Diet

Weaning

- •Soaked high-quality cat chow & formula
- •Add vegetables, hard boiled eggs
- •Occasional fruit (low in calcium)
- Natural foods





Diet

Post-weaning diet

- •High-quality cat chow should be 90% of diet
- •Limit fruits (low in calcium)
- •Do not include meat without bones
- •Yogurt





Diet

Post-weaning diet

Do Not add liver

Liver has excessive amount of vitamin A & D Opossums need the calcium from eating bones



Diet

Modified-Jurgenski Diet

- •Soaked Purina Kitten Chow
- •1/4 tsp pulverized Caltrate 600 or calcium carbonate powder per cup of mixture OR yogurt
- •Formula



Proportion of ingredients is not discretionary



Diet

Natural Diet

Insects

Mushrooms

Fruit

Bird eggs

Mice















Hairless embryos (pinkies)

Transfer to the pouch of a lactating female with comparable size young if one is available

Do not try to raise outside of pouch





Eyes closed, light covering of hair

Provide pouch like sweat pants leg, heating pad cover or sewn flannel

Lanolin or olive oil can be used on tail to prevent dryness





Eyes closed, light covering of hair

- •House in a warm *humid* environment (damp wash cloth, paper towel or sponge)
- •Small container with ventilated lid (aquariums, plastic tubs, crab boxes)
- •Heating pad set on low underneath entire crabox





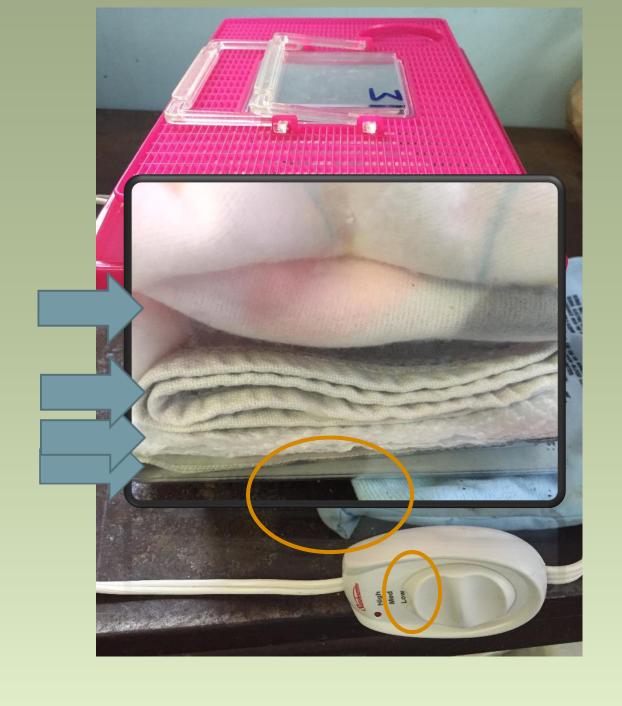


Older infants

- Move to a larger box
- Provide a lots of fuzzies
- Heat should remain underneath box









Eyes open, becoming well-furred



- Move to aquarium with breathable lid
- Provide a hiding house or hammock
- Heat should be on half of aquarium
- Diet change











Eyes open & completely covered in fur

- •Discontinue heat when thermo regulating
- •Large wire cage
- •Provide nest area
- Discontinue humidity









Weaned and able to thermo regulate

- Outdoor cage with nest box
 Large enough to allow exercise
 Branches and hollow logs
- •Secluded area



•Food & latrine located to promote exercise

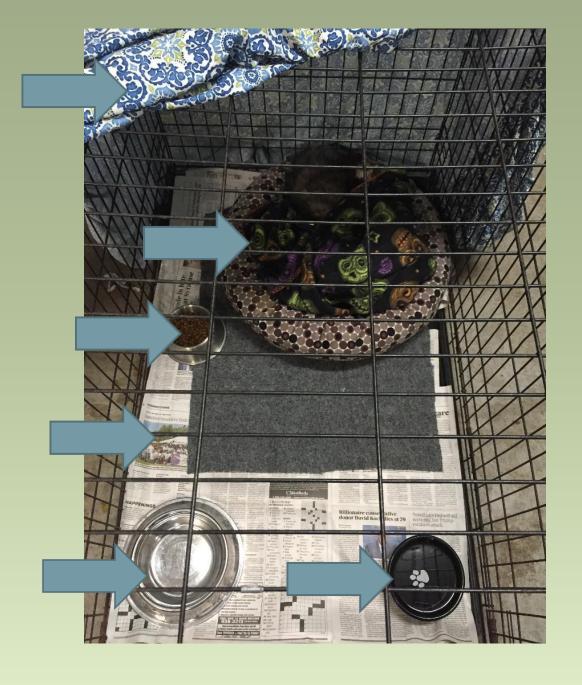














Minimum Standards

	Infant care	Nursing/Pre-weaned	<u>Juvenile</u>
Opossums	(L) 10 GAL	(L) 3x3x3	(1) 4x4x8



What's wrong with these set ups?







Release

- •Wary of people and afraid of dogs
- •Size and weight guidelines
- Consider weather conditions
- •Site selection
- •Release at dusk





Key Points



- Provide humidity for young opossums
- •Learn to tube feed from someone experienced in doing it
- •Feed high-quality cat chow as the dietary staple (90% of diet)



Questions?



North Carollie

