

May 2, 2024

Exotic Animal Triage and Stabilization

DoveLewis Technician

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Virtual Attendee FAQ's

Do I need to create my own Zoom account to attend? No. You can access the webinar through the link in your confirmation email. Click the link that says, "Click Here to Join" at the time of the lecture.

Is there someone to help if I have trouble accessing the lecture?

Yes. Please reach us at contact@dovelewis.org if you're experiencing difficulties joining the meeting. During the lecture, you can use the "Raise Hand" function and someone will be able to help you.

Is attendance tracked?

Yes. As you register for the Zoom meeting, you will be asked to enter your information. Attendance is tracked for RACE records.

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Yes. This lecture is RACE-Approved for one Interactive-Distance CE credit. You will receive an emailed certificate of attendance within one business day after the event.

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Yes. If you have questions during the lecture, please use the Q&A function to submit your question. We will save questions for the end of the lecture.

Will I be able to talk? No. All attendees will be in listen-only mode. If you have a question or need help, the Q&A or Raise Hand function.

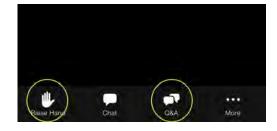
Will the presenter or other attendees be able to see me? No. All attendees will only have the capability to listen to the presenter.

How will I get my certificate?

You must register by using the Zoom link to prove attendance. You will receive an emailed certificate of attendance within one business day after the event.

Can I record the lecture? No. The lecture will only be recorded by DoveLewis, and will likely be available on atdove.org at a later date.

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There are many different exotic animal species that can be seen through a veterinary clinic. The most common species that can be seen are:

- Reptiles
- Birds
- Small mammals
- Wildlife

Triaging all these different species can be difficult, however, we can categorize them into just 2 different types of triage guidelines: STAT and Urgent. We will discuss what qualifies for a STAT triage and what qualifies for an Urgent triage for each of the species listed above. Stabilization for each species will focus on in-hospital care, heat support, oxygen support and CPR directives.

Reptiles:

A variety of reptiles can present on an ER/Urgent Care basis. These species include (but are not limited to): lizards, snakes, chelonians, and amphibians. When they initially present to the front desk, they have the option of being called as either a STAT or an Urgent Triage.

A STAT triage can include the following:

- Unresponsive
- Traumatic injury that is bleeding and the bleeding won't stop
- Traumatic injury that penetrates the coelom

These are classified underneath STAT as these are life threatening concerns that if not treated/stabilized quickly could be detrimental to the patient.

An urgent triage can include the following:

- Respiratory Issues (hissing/clicking sound, bubbles)
- Burns or old injuries to scales
- Not eating for more than 2 weeks
- Bite wounds
- Skin/shedding concerns (changes in color)
- Eye concerns

After initial triage of the patient, vitals should be quickly obtained to assess stability of the patient. Vital ranges will vary based off species and neither a blood pressure or a CRT can be obtained on most of these species. A pain scoring scale is not available at this time for reptile species, but be cognizant of their injury/illness and advocate for pain control if you feel like the patient would benefit from it. Once vitals have been obtained, the patient should be placed in a warm and humid environment. A pre-warmed reptile cage or an exotic specific incubator works best for keeping these patients warm. Heat lamps can be used to provide heat as long as you have a thermometer to check the temperature at patient height, this is to ensure the patient does not overheat.

Food and water are usually not offered in hospital due to the ill nature of the patient. Water can be offered to patients who will be staying longer than 2 hours, and amphibians always need to be misted/sprayed with distilled



water OR owner's water only. Food options are limited and most reptiles will not eat while in clinic, so food is usually not offered during ER/Urgent care visits. Reptiles also have a wide variety of what they should be eating and most clinics do not stock them readily in hospital. Critical Care diets are readily available and can be used based off of the DVMs discretion.

Oxygen supplementation is not needed in the majority of the cases that are seen. The two main times that oxygen supplementation is needed are:

- House fire (smoke/soot inhalation)
- Tracheal Tear or obstruction

For any traumatic injury that has perforated the coelom, we need to create a seal around the injury to help the reptile breathe easier (Tegaderm is a good product that can help create a seal around the injury).

CPR options for reptile patients includes DNR and BLS options. When performing CPR on a BLS patient, we can intubate the patient with a red rubber catheter and start manual ventilation with oxygen supplementation. ECG clips can then be used to get an ECG rhythm (needles can be helpful if the alligator clips are having a hard time getting good skin-clip contact). A doppler also works great for audible confirmation of the heart rate/rhythm. Compressions are very difficult to do in most reptile patients as their heart is located so high up in the coelomic cavity. Chelonians are one species that we can attempt to do compressions on by moving both front legs in and out at the same time (keeping a rhythm of about 70-80 bpm).

Avians:

A large variety of avian patients can present on an ER/Urgent Care basis. The most common species include (but are not limited to): Budiges, Cockatiels, Conures, Cockatoos, Chickens, Ducks, and Macaws. When they initially present to the front desk, they have the option of being called as either a STAT or an Urgent Triage.

A STAT triage can include:

- Unresponsive
- Respiratory Distress
 - Open Mouth/labored breathing
- Traumatic injury that is bleeding at the bleeding won't stop

These are classified underneath STAT as these are life threatening concerns that if not treated/stabilized quickly could be detrimental to the patient.

An Urgent triage can include:

- Not eating
- Fluffed/strange behaviors
- Lameness/Wing abnormalities
- Egg bound/reproductive concerns
- Making weird sounds/Not talking
- Over preening/Plucking feathers
- Skin/Ear/Eye concerns



After initial triage of the patient, vitals should be quickly obtained to assess stability of the patient. Vital ranges vary greatly based off the size of the bird (smaller birds have higher heart rates and larger birds tend to have lower heart rates). A CRT is usually not obtained as most birds do not have any external mucous membranes that we can use to obtain it (poultry birds are the most common exception as they have wattles and combs that can be used). Temperature can be obtained if really necessary, but you just need to be very careful when inserting the thermometer to not damage the cloaca). Pain scoring in birds is very helpful to ascertain how that patient is doing. The IVAPM has a very helpful pain scoring system that can be found at: https://ivapm.org/professionals/pain-scale-for-birds/.

Once vitals have been obtained, it is best to house the bird in a quiet room away from dogs and cats. An exotics specific ward works best if possible. To keep these patients as calm as possible, we can cover their cage with a towel, placing them in an area that is away from loud noises, and playing bird noises or soft music on a tablet/radio.

Food and water can be provided to the patients as long as they are able to stand and/or hold their head in a normal position. Water should be provided in shallow dishes to ensure the bird can not harm itself. The best food diets to have in hospital are Nutri-berries or millet, but there is a wide variety of seed and pellet diets readily available online and in pet stores. The best option would be to have the owner bring their own diet, to ensure that the bird gets what they are used to having at home.

Oxygen support can be provided in two ways: flow-by or by placing the patient in a Snyder. If flow-by oxygen in needed, then placing the patient in an exotics specific incubator works great, or an induction box can also be used (but make sure to cover it on 2-3 sides to help keep the patient calm). If higher oxygen support is needed, a Snyder is ideal to ensure accurate oxygenation is provided.

Heat support can be provided in the same fashion as oxygen supplementation. An exotic specific incubator is great for warming patients that are cold (or even wet) because they usually function with a fan that circulates warm air throughout the enclosure. A Snyder can also be used for heat support if needed in conjunction with oxygen support. It is NOT recommended to use any heat discs or warm fluid bags ("warmies") as they can easily burn the smaller patients and can also be easily punctured by their feet/beaks.

CPR options for avian patients include BLS or DNR options. When performing BLS CPR, the patient can be intubated using avian specific endotracheal tubes, red rubber catheters, or IV catheters (use as a last resort as the inside bore is quite small). ECG clips can be used to obtain a visual ECG rhythm by placing the clips on the patagium and inguinal folds. An ETCO2 can also be obtained by placing the sensor on the end of the endotracheal tube. Respirations are best given with a small/exotic ambu bag with oxygen support but can also be given using a non-rebreathing anesthetic circuit and a 0.5L reservoir bag.

Small Mammals

There is such a wide variety of small mammals that can present through the ER/Urgent Care departments. The most commonly seen small mammal patients are: rabbits, guinea pigs, chinchillas, ferrets and rodents. When they initially present to the front desk, they have the option of being called as either a STAT or an Urgent Triage.

A STAT triage can include:

• Unresponsive



- Respiratory Distress
- Traumatic Injury

An Urgent triage can include:

- Has not eaten in 48 hours or less
- Lethargy for 24 hours
- Injuries that have occurred more than 24 hours ago
- Skin/Ear/Eye concerns

After initial triage of the patient, vitals should be quickly obtained to assess stability of the patient. Vitals will range depending on the species, so it is always handy to have a chart that goes over normal ranges in these species. A temperature should ALWAYS be obtained on any small mammal that presents for GI concerns. It is ok to not take a temperature on rodents/sugar gliders/etc. because they are just so small. Ferrets are one species that a temperature can always be taken and if they are struggling too much for a rectal temperature, then an axillary temperature can be obtained instead. Mucous membranes and a CRT can be obtained in the small mammals by looking at the gingiva around their upper/lower incisors. A blood pressure can be obtained on the larger small mammal species (anything over 1kg) by using either a doppler or oscillometric (rabbits should be oscillometric as they do not have any paw pads). A grimace scoring scale is readily available for rabbits, rats, and ferrets and are a good guide for assessing pain score in these species.

Once vitals have been obtained, small mammals should be placed in a quiet space away from dogs/cats. All hind-gut fermenters (rabbits, guinea pigs, chinchillas) should have access to hay at all times (as they need to be constantly eating). Providing a place for the patient to hide can also help ease stress/anxiety of being in clinic. One species that always needs a place to hide is rodents, since they are usually more active in the evening/dark hours. Rodents can be offered food/water if they will be in clinic for longer than 1 hour (unless otherwise specified by the DVM). Ferrets can usually always have food and water while in clinic as they have a high GI transit time (If a procedure/ultrasound will be performed, then removal of food 1 hour prior should be sufficient).

Oxygen and heat support can be provided individually or simultaneously, depending on the patient's need while in hospital. Incubators (i.e. Thermocare) are good for helping to monitor patients who need slight heat support and that you also want to monitor on the ER floor (it is best to cover ¾ of the incubator to make the patient feel comfortable). If you are using a water-circulating incubator, then it is recommended to use a thin towel on the bottom to ensure that the heat support reaches the patient. Exotic specific incubators are good for patients who need heat support and flow-by oxygen supper. And Snyders are the preferred method if the patient is in respiratory distress as it provides both oxygen support and heat support.

CPR options include DNR and BLS options. IV catheters can be readily placed on small mammals over 750 grams (IO catheters can be placed for the smaller patients where IV access is just not an option). Intubation is usually a "blind technique" (except for ferrets) but can be performed with a video otoscopy or a scope for visual assistance. Respirations can be provided by using a small/exotic ambu bag, or by using a non-rebreathing anesthesia circuit with a 0.5L reservoir bag. ECG clips can be easily applied to patients and work well on most all small mammal species.



Wildlife Triage

When a wild animal presents for a triage, it is required that the Good Samaritan bringing in the animal fill out a form with their information, where the animal was found, and a brief description of why they are bringing the animal to the clinic. This form is required by most rehabilitation facilities to be able to know where the animal came from, so if possible, it can be released in the same area.

For Oregon state, it is recommended that Raptors, Gulls, Crows, and Ravens be triaged with an isolation protocol. After a DVM performs an initial exam they can determine if the animal needs to be set-up as quarantine, or if they can be housed in the general avian housing area. This is due to them being carriers of avian influenza.

All Waterfowl (ducks, geese, etc.) are unfortunately unable to be triaged inside the building at this time. Because they are carriers and are affected by avian influenza, it is Oregon state law that all waterfowl be euthanized outside of the building and then processed as if they are an isolation patient. This regulation varies by state, so be sure to contact your state department of agriculture for rules/regulations that you need to follow.

Songbirds, Hummingbirds, and all other avian wildlife can be triaged inside the building with no restrictions.

When triaging an invasive species, it is recommended to check your state regulations on how to handle/treat them. Oregon state is unable to treat invasive species, so they are given a DVM assessment on triage and then the euthanasia process started.

When getting an animal set-up for treatment/overnight stay it is best to keep all wildlife in a room separate from dogs and cats. This is to help prevent any animal from injury if they accidently get loose in the room. All animals should have a light towel placed on the bottom of their enclosure and be properly labeled (this ensures that animals who look alike do not get their treatments/diagnosis mixed up). Appropriate food and water can also be provided as long as the animal is able to sit/stand in a somewhat normal position (best if offered in small shallow dishes).

Wildlife Stabilization is very similar to other animals, however, it is usually kept to a minimum to prevent undo stress/ handling prior to transfer to the wildlife rehabilitation center. Both oxygen and heat support can be provided by placing the animal in a Snyder, if flow-by oxygen is needed, then you can also use an exotics specific incubator to provide heat and oxygen supplementation. Pain control and SQ fluid therapy are two common treatments given to stabilize the animal and then give it a night of rest/quiet prior to transfer to the rehabilitation facility.

The main goal of having the option of wildlife triage at your hospital is to give the animal a safe place when the rehabilitation facilities are closed. All wildlife should ideally go directly to the rehabilitation facility during their open hours. This gives the animal an even better chance at healing and possible release.

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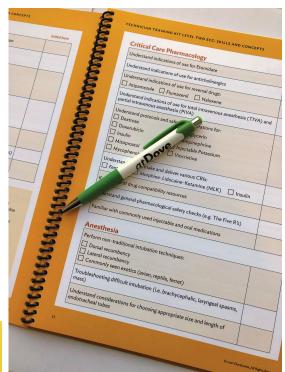
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