Awesome Krimpvarkies Madagascar Lesser Tenrec Guideline Rev 4



Compiled by Lizl van Vreden

Introduction:

First of all, tenrecs are not a hedgehog. Although they look like one.

A tenrec is a species of mammal within the afrotherian family Tenrecidae endemic to Madagascar. Tenrecs are widely diverse; as a result of convergent evolution some resemble hedgehogs, shrews, opossums or mice. They occupy aquatic, arboreal, terrestrial and fossorial environments.

<u>Family</u>: Tenrecidae; <u>Gray</u>, 1821 <u>Gestation period</u>: <u>Lesser hedgehog tenrec</u>: 63 days <u>Scientific name</u>: Echinops telfari <u>Class</u>: Mammalia <u>Mass</u>: <u>Lesser hedgehog tenrec</u>: 150 g-250g, <u>Length</u>: <u>Lesser hedgehog tenrec</u>: 16 cm, can differ. Lifespan: 10 years Teeth: 32 Sexual Maturity: After their first torpor, from 9 months old



Behaviour:

Behaviour traits are being nocturnal, and being able to go into torpor,Scent marking, annointing and taking sand baths. Tenrecs are nocturnal animals and comes out of their hiding spot early evenings. Although they are found today around the world, and kept as pets, they live mostly in Madagascar and spend their winters in a deep sleep called torpor.



They are mainly insectivores, but they also eat invertebrates, reptiles and small mammals, eggs.

Tenrec's depth perception are good and thus causing for them to be good tree climbers; they love to climb on branches and shrubs. Their nails are also very curved and tends to be cat-like to enable them to climb up into trees



Little bit more about tenrecs

The lesser hedgehog tenrec (Echinops telfairi) received its name in honour of Charles Telfair. Charles was an Irish botanist who established the first botanical gardens in Mauritius and Réunion.

He was honorary curator of the botanical garden at <u>Pamplemousses</u> from 1826 to 1829. For his ground-breaking work he was honoured to have plant and animal species named after him.

Those include the plant genus <u>Telfairia</u>, the lizard species <u>Leiolopisma</u> <u>telfairii</u> (Telfair's skink), and the mammal species <u>Echinops telfairi</u> (lesser hedgehog tenrec).

The tenrec was likely the first mammal to land on Madagascar millions of years ago, so the early lineage evolved over generations to adapt its body shape to its environment. Through a process called "adaptive radiation," new tenrec species appeared, each physically suited for its ecological niche and free of competition, according to the International Union for Conservation of Nature (IUCN)/SSC Afrotheria Specialist Group.

Tenrecs were being studied and kept by zoo's and museums since the 1950's. In today's society Zoo's are considered as cruel, but in the past, they worked together with researchers and made ground breaking discoveries for us today to understand our pets and other animals better. The pet industry is also perceived as cruel, yet due to trading many animals are actually saved from extinction by the pet industry. Lost of land and habitat, deforestation are increasing the risk of animals that are still free and wild.

Tenrecs arrived shortly after hedgehogs in South Africa, around the early 2000`s. All tenrecs were imported from Madagascar at the time from the same importer. Tenrecs are still a true species and not

perceived as domesticated.







Tenrecs prefer a sand bath above a water bath. Water baths can be done every 6 months. Normally this is done after their winter torpor if they have extreme dry skin. If humidity in cage is on point, a regular sand bath will be enough to get rid of dry skin.

Point to remember: If you do need to bath your tenrec, use tearfree baby shampoo with added linseed oil and rinse with clean water after wards.

To ensure that your tenrec enjoys his sand bath it is always a good practice to spray a bit of water onto the sand to keep it moist. They enjoy it more than as when the sand is dried out.



Food:

Staple diet: Insects such as mealworms, superworms, beetles, roaches, crickets, black fly soldier larvae. Silkworms.

Tenrecs that are on a insect only diet must get Calcium D3 added to the diet to prevent Metabolic Bone Disease. This can be done by sprinkling (powder dust) calcium powder over the insects 2 or 3 times a week.

Dry cat food: Fat content must be monitored to prevent obesity. Montego kitten, Montego Adult, Nutribyte Adult Cat Feline Cuisine for For adult cats, Chicken flavour.

If your tenrec are on a mixed diet of dry cat food and insects, then the intake of Calcium D3 can be reduced, as the cat pellets contains calcium.

Wet cat food: Sachets cat food, example Pampers. Other food: Scramble eggs, mince-meat, (no salt or spices), fruits, cooked veggies. Cooked chicken livers and chicken.

Note that it is highly unlikely that your tenrec will eat vegetables. They prefer mostly insects and meaty things.





Insects in South Africa









Black Fly Soldier









Housing

Various types of cages are available, keep in mind that your cage must be large enough to keep your tenrec busy and occupied. Bars must be small enough to keep him safe inside.

Your cage must be secure and escape free, as they can cling on the wire and climb up on it, meaning, your cage must have a lid. Lots of branches and things to climb on.

They enjoy tree stumps and plants in their enclosures. Tenrecs love small hides and things to crawl underneath. They like digging also, therefor cage bottom must be covered with a subtract that can not cause their nails to get stuck on. See following pages for cage ideas.

You cage need to have:

•a nest / sleeping hut. This can be a wooden hut or DIY hide. •a running wheel is optional if your cage is large, as many tenrecs don`t make use of a wheel.

·food and water bowls

•Sand bath container or area with sand, mostly recommended is Reptile sand and Kiddies Play sand. Never use Chinchilla bath sand as it is too fine and cause respiratory issues.

·Ladders / tree stumps etc.

•Floor covering- play sand, eco litter, bark chips, compost mix with coco peat. Just a reminder, play sand as a floor cover can become smelly if you have a male. Males tends to have a bit of a strong odor and when they take a sand bath, they gave of their aroma. Some people compare the smell with Dorito chips or even weed (marijuana). Eco litter is a good odor combat friend when it comes to males. Change your sand in the bath tray weekly, and you won`t have odor problems.

ALWAYS remember NOT to keep two males in 1 cage, they do fight. Females can also become hostile towards another tenrec if they were not raised together in one cage.



Cage decoration ideas



Terrarium cage with eco litter as floor covering. Wooden sleeping hide, no wheel but climbing objects available.
The fountain provides more humidity to the cage.



Terranium cage with kiddies playsand as floor cover, wheel and less climbing objects. Wooden cabin hide.



Wooden cage with lots of climbing objects and ropes, plants, and vines.

Setting up your cage

- Eco Litter

Bark chips







Sleeping options









Reptile sand

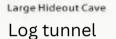




More cage things

DIY Tunnel from PVC pipe and fake grass







25cm/9.84inch



Suitable wheels for tenrecs





Plastic Plants can be used also





Feeding bowl



Torpor:

During winter times tenrecs goes into torpor, which is like hibernation. They become lethargic, eat less and eventually retire to a hide-out completely. After 2-4 months they will become more active by themselves.

Mostly in captivity, owners will keep a heating pad or heat emitter lamp in the cage which might shorten their torpor period. It was noted by breeders and owners that tenrecs will sometimes become lethargic even in summer when there is a sudden drop of temperature. This will last only a few days.

During extreme heat waves, they can also go into a short torpor period to preserve energy. Even daily when tenrecs go to sleep it can be seen as a short torpor.

The reason for this is when they fall asleep all their bodily functions lowers down and they tend to feel cold. When they wake up, they slowly start moving around until all bodily functions, heartbeat, pulse and body temperatures, blood circulation is up.

During torpor it is a good practice to leave out food for your tenrec, as they do wake up occasionally and eat. Although they don't eat much during this time, it is wise to watch them. If they fall asleep while still eating the food can cause tooth decay.

Very important to know is that juvenile tenrecs under a year should be prevented from going into torpor as they don't have enough body fat yet to survive a winter.

After normal torpor, the tenrecs will come in their seasonal breeding period.



Photo Credits: Telana Smith, Luna

Breeding



Photo Credits: Lynda Mitchell

Their breeding period is seasonal, normally after torpor. Males often show a milky white liquid discharging from eye. During mating, which can last longer than an hour, the female mostly squeaks and the male puffs from time to time. The frequency of mating attempts decreases after 2 to 3 weeks, after which you need to separate the animals again.

Gestation period is around 63 days, and 3-9 babies can be expected. The pregnancy of a female becomes visible through increased body weight, swelling of the abdomen and (shortly before birth) the teats, show particular interest in food and nest building. She will appear to be constantly hungry and will even eat food that she normally don't eat.

A new-born tenrec weighs about 5-10 g, the quill tips are under the skin, the eyes and ears are closed. After a few days the young are covered with quills, the eyes open around day 9. About a week later (or a little earlier) they start to leave the nest temporarily. At 3 weeks the first of the young start to take in solid food, at 4 weeks at the latest all young eat solid food. At this time, it is especially important to provide a varied diet. From day 35 on the mother will no longer provide milk and they can be separated from the mother.

From Two weeks of age you may start handling the babies.

Sexing Tenrecs:

Because of their cloaca it is difficult to determine the sex of a baby tenrec. Cloaca, in other words, it's an anus, genitalia, and urethra all in one, and in females it also serves as the depository for sperm. Only after their first torpor, when they reach sexual maturity, will there be a few visible things that will assist with identifying males from females.

Males:

They have enlarged rings around the eyes, which are caused by eye glands.

They generally have a shorter, broader head.

Females:

Adult females often show clearly visible teats. Four pairs of teats. Females have longer, narrower faces.

There are different ways to identify if your tenrec is male or female:

 Un-sexed animals can be paired with a male - the reaction (copulation or aggression) often shows the sex. Males also have a distinct odour, which can be recognized with a bit of experience.
 By applying pressure to the lower part of the tenrec's body, if it is a male, the penis will protrude from his cloaca. But, if it is still a juvenile, his male organ might still be too small to protrude.
 Vets can do a DNA sexing test.

4) Experienced owners mostly distinguish between them by looking at facial features.



Health Matters:

Tenrecs are in general very healthy animals, but the healthiest can also get sick. The following illnesses are listed as a shortlist of possibilities.

Mites: Loss of quills, flaky dry skin, excessive scratching. Revolution for Kitten or Broadline for Kittens is recommended. Because Tenrecs skin appears to be much more resistant in terms of absorbing the Revolution and requires the the full tube to be administered. Cage and all bedding to be

cleaned. out and disinfected. Follow up treatment to be made one week later.

Obesity: Lack of exercise and too small cage and improper food are the main causes of this.

Tooth Decay: This can happen when your tenrec goes into torpor while eating!Ensure that they do not fall asleep while still chewing. **Respiratory infections:** Sneezing, congested chest, licking of the nose is also a sign.

Dry skin: Coconut oil, vitamin e oil, linseed oil will cure this quickly. **Malnutrition:** Lack of proper food and shortages of insects in their diets.

Digestive issues: Diarrhea or constipation. Can be treated with cooked pumpkin or Protexin. In the case of diarrhea check if food sources is not contaminated, in the case of constipation, ensure that your tenrec is drinking water and has adequate water sources. If not, seek a vet's advice.

Metabolic Bone Disease: Mealworms & superworms can cause this if they do not get added Calcium D3 with their food.

Cancer: Tenrecs can also get most types of cancer like any other animal, and males are more likely to get cancer than females. (as concluded by the Association of Zoo Veterinarians Conference

2012)





Health matters Continue

You might find it helpful to keep the following products at hand:

1)Linseed oil – dry skin

2)Revolution for Kittens - Mites

3)Brunel Vitamin Tonic, vitamins helps for healthy appetite and general health, especially for a sick or recovering tenrec. Dilute ½ teaspoon with 500 ml water and replace drinking water with this mixture.

4)Protexin- Probiotics – Excellent for a sick / recovering / pregnant or lactating females. Resolves upset stomach. Good for general health and absorption of vitamins and minerals. Tip of a knife point over food is enough.

5)Calcium D3- to be added with insects such as mealworms and superworms. If your tenrec is on a insect only diet, this must be offered 2 a week. Sprinkle over insects. If the tenrec is eating dry kibble, it can be given less as the cat food contains calcium. Nail clippers- It is required to trim your tenre`c nails from time to time.

Contact details you might need:

- 1) Lizl van Vreden 072 090 3479 / lizlvanvreden@gmail.com
- 2) Onderstepoort 012 529 8105 -Gauteng
- 3) Nelspruit Animal Hospital 013 752 8271 Mpumalanga
- 4) Langenhoven Animal Clinic 051 446 1324- Free State
- 5) Cape Exotic Animal Hospital 021 975 0708- Cape Province



More on health matters:





Revolution for Kittens



Linseed Oil



Rescue Remedy



Brunel Vitamin syrup



Nail trimming :

Nail trimming can be a challenge if your tenrec does not approve. Best is to give it a go around midday when they are fast asleep. As you have read in the torpor section, tenrecs go into a "daily" torpor when sleeping, which cause them to be a bit cold and "stiff". If you have a biter, it is your best oppurtunity to quickly trim those nails while your tennie is asleep!





Colours:

Tenrecs comes across in a variety of colours, from light to very dark. Most of these colours are availble in South Africa.



Black - photo credits Jennifer Griffith Ayers, Vulcan exotics



Dark Grey - Jennifer Griffith Ayers, Vulcan Exotics

Copper - Jennifer Griffith Ayers, Vulcan Exotics





Dark Red- Jennifer Griffith Ayers, Vulcan Exotics

Light Brown- Jennifer Griffith Ayers, Vulcan Exotics



Brown- Lizl van Vreden, Awesome Krimpvarkies



Dirty Blonde - Jennifer Griffith Ayers, Vulcan Exotics

The end....

Blonde - Jennifer Griffith Ayers, Vulcan Exotics

