India has three species of hedgehogs namely, Indian Long-eared Hedgehog *Hemiechinus collaris* found in Delhi, Himachal Pradesh, Jammu and Kashmir, Punjab, Gujarat, Rajasthan and Uttar Pradesh (Srinivasulu & Srinivasulu 2012), Indian Hedgehog *Paraechinus micropus* found in Punjab, Rajasthan, Gujarat and a single record from Maharashtra (Srinivasulu & Srinivasulu 2012) and Madras hedgehog or Bare-bellied Hedgehog *Paraechinus nudiventris* which is endemic to Southern India, found in Tamil Nadu, Andhra Pradesh and Kerala (Molur et al. 2005). They are insectivores and belong to family Erinaceidae.

The species in question is the Bare-bellied Hedgehog assessed as Least Concern by IUCN (Chakraborty et al. 2008) which is endemic to southern India. Habitat loss due to collection of fuel wood, logging, agriculture and urbanization are major threats affecting *Paraechinus nudiventris* (Molur et al. 2005).

We present here, information based on existing literature and a one day questionnaire survey conducted on 14 July 2013 at Nakkaneri. This initial survey was taken up after we heard of Madras Hedgehogs *Paraechinus nudiventris* being consumed by people of a village – Nakkaneri in Radhapuram Taluka on the border of two districts – Nagercoil and Tirunelveli in Tamil Nadu. We interviewed 12 people within the age group ranging between 10-74 years from the village which has about 150-170 houses and a population of about 900 people.

*Paraechinus micropus* (Blyth, 1846) is used for medicinal purposes in India (Mahawar & Jaroli 2008). As per Padmanabhan (2007) the species is also known from Palakkad and Mallapuram districts of Kerala. Superstition include that the spines of this hedgehog if kept at home keeps away evil spirits. Padmanabhan (2007) states that the flesh is edible and that the spine powder is mixed in coconut oil and applied over wounds for quick healing.

There are very few studies on *Paraechinus nudiventris*. In Kerala it is reported from Ottapalayam, Palakkad (Nameer 2000 seen in Molur et al. 2005). Recently, a research team also found a group within the Periyar Tiger Reserve (Thomas et al. 2012).

Ramanujam & Anbarasan (2007) reported Bare-bellied Hedgehog from Kurumpuram Reserve Forest, in Kaliveli watershed region, near Auroville in Pondicherry. They have reported that natural healers were seen with dried skins of hedgehogs. Recently, *P. nudiventris* has also been sighted in the Highways Mountains, Tamil Nadu by Srinivas et al. (2013). It is also known from Srivilliputhur Wildlife Sanctuary (Tamil Nadu Forest Department website). It is known from Kalakad-Mundanthurai Tiger Reserve, Tirunelveli (Johnsingh 2001) and in Salem, it is known from Danishpet. In Andhra Pradesh, it is known from Chittoor and Cuddapah (Molur et al. 2005).

**Summary of questionnaire survey**

The village has a very interesting combination in terms of habitat and habitat changes. It has a dry scrub habitat and some of the plants that we could identify in the region are non-natives; *Prosopis* sp, *Calotropis* sp., *Agave* sp., *Cactus*

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Pledge for Hedge-hogs! Research by ZOO/WILD Staff
Brawin Kumar¹ and Priyanka Iyer²

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¹ & ² Zoo Outreach Organization, Coimbatore, Tamil Nadu. Email: brawin@zooreach.org, priyanka@zooreach.org
The questionnaire survey gave us an insight into the beliefs and habits/attitude of the people towards hedgehogs and other wildlife found in the area. 25 percent of the people interviewed have moved from Sri Lanka in the 1960s and 1970s. Their occupation includes farming on a minor scale, fishing for livelihood and drying fish for chicken feed commercially (marine), working in the beedi factory and working in the windmill offices.

Based on our initial information on interacting with the people, we know that they consume hedgehogs and believe their spines have medicinal value. They do not actively hunt hedgehogs but on opportunistic finding they are amused by the ball formation that the animal takes when faced with any disturbance or threat and play with it. Then, they drown it in water to force it open to its natural form. They consume the meat, dry the skin with spines and as and when required crush the spines to a fine powder, mix it with honey and give it to their children as a remedy/cure for cough, cold and other breathing troubles.

They do hunt some other animals namely, hare, red fox, garden Lizard. Monitor lizard eggs and they use snakes for medicinal value (they melt the fat and store the oil).

Next step
We plan to continue working towards better understanding the status of this species in Nakkaneri and conduct field surveys, questionnaire surveys in adjoining areas and outreach programmes.

There are many records of hedgehogs around reserve forests within Tamil Nadu which need to be further verified. We came across many people who have sighted hedgehogs in various locations but there is a lack of detailed distribution mapping of hedgehogs in southern India, this data gap needs to be addressed urgently. There are some newspaper records for the hedgehogs, but we are not sure about the species.

Based on literature and what we have found, it is evident that more research is essential to better understand its distribution, population abundance, ecological requirements and threats (Molur et al. 2005). Also, education and awareness about these lesser-known animals is essential to make sure the local communities are a part of conservation.

Contact information
In case you have any information on Bare-bellied Hedgehogs kindly contact us at: Zoo Outreach Organization (0422-2665298, 2665450) Brawin Kumar (+91 9600212487) or Priyanka Iyer (+91 7667647747)

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References


