

**Results and discussion:** Vasectomy in captive animals is reported in Giraffe (Vogelnest & Ralph, 1997), Chimpanzee (Hoffman *et al.*, 2002) and in Lion (Vasanth *et al.*, 2002) and is found to be a better alternative to other measures in controlling of breeding in captivity.

Black Bucks are very timid animals and unplanned attempt to tranquilize may results in severe casualties. Darting from behind a camouflage will help to a greater extent in tranquilizing these animals without exciting them. A smooth induction of anaesthesia and recovery was noticed using ketamine HCl and xylazine HCl combination that varied from 150-325mg and 5-30mg depending on the estimated body weight.

Post-operatively, one of the animal showed unilateral swelling of the scrotum on second day that might have been due to accumulation of blood from a small capillary bleeding. Treatment with oral anti-inflammatory drugs for a period of five days brought back the condition to normal. Otherwise, all the animals recovered uneventfully.

Subsequent observation over a period of eight months did not reveal any related complications and all the animals showed normal mating behaviour.

#### Reference

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VET BRIEF

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### Infighting leading to injury in bull elephant

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plus web supplement of 1 page

An injured bull Asian Elephant (Image 1<sup>w</sup>), 9ft, was detected in Manikchua reserve, Angul Forest Division, Orissa. It was an adult bull, approximately 30 years old. The Elephant was moving slowly and a foul smell was noted.

It was decided to examine and treat the elephant under sedation on 30.iii.2006. The injured animal was in a forest patch that was very bushy and thorny and not ideal for darting. The animal was driven to open land by loud noise. The first darting, near Makarkanda nalah was not successful. As the animal then moved further a second dart was fired at 12.23hr. The dart consisted of 350mg of xylazine (3.5ml), 0.3mg atropine sulphate (0.5ml) and 100mg ketamine (1ml) in a 5ml syringe dart. After 11min the animal was still standing with drooping trunk and relaxed penis, but movement of ears and forelimb persisted. At 12.40hr another injection of 200mg xylazine and 100mg of ketamine was injected intramuscularly in the left hind limb, 5min after which the elephant was in deep sedation emitting deep snores.

On examination, three wounds were detected on the left side; one in the gluteal region, one in the abdominal region and the third on the

<sup>w</sup> See Image 1<sup>w</sup> in the web supplement at [www.zoosprint.org](http://www.zoosprint.org)

forelimb. On the right side 11 punctured wounds were observed in the temporal and cervical regions, at the base of the ear and throughout the pinna. All the wounds were examined for presence of any metallic foreign body using a metal detector. No metallic object was noted. Then the wounds were dressed with hydrogen peroxide and turpentine oil. The wound cavities were irrigated with 5% povidone-iodine lotion and painted with Himax<sup>™</sup> ointment.

As the elephant was in standing sedation the wounds of temporal and head region were dressed using a long stick wrapped with gauze and medicines. Other medicines administered were penidure-LA-24 lac i/u, esgipyryne-40ml, dexona-30ml and avil-10ml intramuscularly at different sites. All these procedures continued up to 1340hr and 5ml of yohimbine hydrochloride was injected intramuscularly for reversal. After 10min the elephant started moving and entered the thick forest cover.

The wounds might have been caused due to infighting between males for acquiring a mate. The tail of the elephant was without brush. The wounds were suspected to be one week old. It was deemed necessary to keep constant check on the movement of the elephant. However, by the next day the animal was found dead by forest officials about 5km away from the treatment site.

Post-mortem examination revealed large amount of blood clots with perforation of abdominal organs. The wounds were deeper and abscessed. Detailed and thorough check-up of the organs did not reveal any metallic objects. The histopathological examination of heart, liver, lungs, kidneys, intestine and stomach did not show any significant changes. The elephant may have succumbed to internal haemorrhage with septicemia.

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VET BRIEF

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### Oesophageal obstruction in an Indian Mud Turtle *Lissemys punctata*

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plus web supplement of 2 pages

Ingestion of fishing hooks can cause severe oesophageal, stomach and intestinal lesions in turtles. Depending on their position in the digestive tract, foreign bodies and fishing hooks can either be removed by hand, with an endoscope or by means of a surgical operation (Bentivegna, 2004). The present paper describes removal of a fishing hook from the oesophagus of an Indian Mud Turtle *Lissemys punctata*.

An Indian Mud Turtle which had swallowed a fishing hook attached to a braided synthetic thread commonly used for fishing was presented to the surgery clinic of Orissa Veterinary College (Images 1 & 2<sup>w</sup>). History revealed that the turtle was caught in the fishing equipment from a pond on the outskirts of Bhubaneswar city. The general body condition of the turtle was good; weight of 2.2kg. Then it was radiographed in a dorso-ventral view using 57kV & 10m as at 100cm FFD. The radiograph revealed a barbed fishing hook attached to a thread embedded in the oesophageal muscle (Image 6<sup>w</sup>). Ketamine hydrochloride 80mg was injected intramuscularly into gluteal muscle by drawing its hind limb. Within 5min the turtle was anaesthetized with its limbs and head prolapsed out of carapace. Examination of oral cavity did not reveal presence of

<sup>w</sup> See Images 1-8<sup>w</sup> in the web supplement at [www.zoosprint.org](http://www.zoosprint.org)