

Fast Hand **Piece** Dental Drill **Used To** Remove a Strangulating **Metal Bearing** From the **Penis**

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A patient presented to the casualty department with stainless steel bearing around the shaft of the penis.

There was marked edema of the entire penis distal to the constricting steel ring.

Fast hand piece, dental drill was used to cut this metal ring safely.



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Case Report

A 45 year old man placed a stainless steel bearing 19 mm wide and 3 mm thick on the shaft of the penis. Edema of the entire penis developed. At the time of presentation to casualty room, the entire penis was grossly swollen and deep dark red in colour. A metal ring cutter was of no value. The city fire department was consulted without benefit. Inquiry to a dental surgeon revealed the possibility of using fast hand piece dental drill. This is a very powerful drill, with 300,00 revolutions per minute; it has diamond teeth and will cut through any metal including very strong metal alloy. This method needs neither general anaesthesia, nor local anaesthesia. The ring was divided on sides opposite to each other and normal saline irrigation was used to overcome the healing effect of the procedure. A metal spatula was used to protect the shaft of the penis and eye protection was used by the operative. It

took about 2 _ hours to cut off the ring. After removing the ring, edema subsided and the patient was discharged from the hospital after 3 days.

Discussion

Strangulating bands placed on the shaft of penis, usually to improve sexual performance, is a challenging problem to General surgeons. Rapid action has to be taken to prevent gangrene formation. Many strangulation objects are encountered, such as rubber bands, metallic nuts, iron pipes. This will lead to engorgement distal to the constricting

band and will inhibit venous return and lymphatic flow. If not released, it will interfere with the arterial supply and may lead to ulceration and gangrene formation. In case of nonmetallic bands, the injury is more severe. The evaluation of penile strangulation includes: checking the temperature of shaft of penis, colour, arterial pulsation, ulceration of skin, retention of urine, and Doppler flow meter. Methods of removing include: Aspiration of corpora, ring removal, circular saw used in total joint arthroplasty.

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