Management of urine accumulation within the preputial cavity in a 2 year-old Holstein bull
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Importance
Immediate attention to preputial injuries is important to prevent infection and fibrosis forming a stricture of the prepuce. This case report describes the diagnosis of preputial fibrosis and stenosis causing urine pooling, resulting in poor semen quality.

Diagnostic approach and treatment
A 2 year-old Holstein bull was presented for persistent swelling of his caudal prepuce. Five months prior to presentation, he had been found hanging with his rear legs over a gate at a bull stud facility. Over time, a persistent swelling appeared at the caudal aspect of the prepuce. The bull was collected but the ejaculates were contaminated with urine and the penis was not exteriorized. On presentation, the prepuce had swelling over the caudal half. Ultrasonography revealed fluid accumulation. Palpation of the preputial orifice revealed fibrosis and stenosis that nearly obstructed the entire opening. The final diagnosis was trauma induced fibrosis causing urine accumulation in the preputial space. Surgery was recommended to attempt to remove as much of the fibrosis as possible.

Results and discussion
Under general anesthesia, the fibrotic area was exteriorized through the preputial orifice and slowly dilated. Once sufficiently dilated, an endoscope was introduced in order to visualize the caudal internal prepuce and glans penis. The fibrotic area was incised in several areas throughout the circumference in order to further dilate the stricture. The glans penis was extended and a preputial reefing was performed. Four days post-operatively seroma of the sheath was diagnosed with ultrasound. Six-days post-operatively, one third of the ventral/left aspect of his incision dehisced. These complications were managed with anti-inflammatory and icing. The bull was discharged 14 days post-operatively. Seventy days post-operatively, the bull was reexamined. He had fibrotic stricture similar to the original presentation. A second surgery was recommended. However, due to financial considerations, the bull went to slaughter.

Keywords: Urine, preputial cavity, preputial resection and anastomosis