Simultaneous existence of Pyometra, Ovarian Cysts, Urolithiasis, Cystitis, and mammary gland tumor in guinea pig, case study

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Case Description- A 5 year Old female guinea pig with a mass on right side of the inguinal region and history of anorexia and lethargy.

Clinical Findings- Clinical signs: a mass on mammary gland, hematuria and alopecia. primary diagnosis: mammary gland tumor, urolithiasis, hydrometra/ mucometra/ pyometra, and cystic ovaries. Ultrasonographic evaluation confirmed cystic ovaries, cystolithiasis, thickening of the bladder, and luminal free fluid and increased diameter of uterine horns.

Treatment and Outcome- Decision: mastectomy, ovariohysterectomy, and cystotomy. After basic preparation of the surgery site at dorsal recumbency, an incision centered midway between the umbilicus and pubis was made. Ovariohysterectomy was performed the same as in carnivorous. The incision was extended to perform cystotomy. Bladder was exteriorize and incised. Stones were removed and an intravenous catheter (gauge 20) was passed from the neck of the bladder into the urethra to confirm the patency of the urethra. Cystotomy and linea Alba closure were performed. Finally, an elliptical incision of the skin was performed and all mammary tissue on that side was excised. It was papillary adenocarcinoma based on histopathologic report. One month later, the owner came with recumbent animal which couldn’t survive. kidney and lung sample were obtained and sent to histopathology department. Interstitial pneumonia in addition to focal tubular necrosis and fibrosis of the kidney were detected.

Clinical Relevance- Guinea pigs are suspected to many diseases such as mammary gland neoplasia, pyometra, ovarian cysts, and cystic calculi, some are rare while others are frequent; however, simultaneous presence of all of the aforementioned problems in one animal has never been reported.

Key Words- guinea pig, pyometra, ovarian cyst, urolithiasis, cystitis, mammary gland tumor

References