

## Impact of steroid-containing eye drops on plasma concentrations

Vet Times, July 12<sup>th</sup> 2022

Steroid-containing drops are used topically for the treatment of a number of eye conditions. They are usually considered to have a lower systemic effect than other methods of administering steroids, such as oral or parenteral routes. However, topical ophthalmic administration can still lead to systemic absorption. Ewald et al performed a study to determine the plasma concentrations of prednisolone and dexamethasone after topical ophthalmic administration. Twelve healthy beagles were included in the study, half of which received one drop of 1% prednisolone acetate and half of which received one drop of 0.1% dexamethasone. Blood samples were collected from the jugular and a peripheral site on days 0, 1, 7 and 14, and analysed for drug and cortisol concentrations. Both drugs were absorbed systemically and detected up to two weeks after administration. Higher concentrations were found in the jugular vein than peripherally. Plasma cortisol levels were lower than baseline two weeks after treatment with either drug. This study shows that prednisolone and dexamethasone are absorbed into the circulation after ophthalmic administration to the extent that they affect cortisol levels, which can have implications for diagnostic tests for hyperadrenocorticism or hypoadrenocorticism and potentially for side effects with long-term administration. The authors noted further research was needed to assess the degree of systemic absorption when these drugs are applied to inflamed eyes.

## Male dogs four times more likely to develop contagious cancer

MVC, July 6<sup>th</sup> 2022

A new study has found that male dogs are four to five times more likely than female dogs to be infected with the oro-nasal form of Canine Transmissible Venereal Tumour. Canine Transmissible Venereal Tumour, or CTVT, is an unusual cancer – it is infectious and can spread between dogs when they come into contact. The living cancer cells physically 'transplant' themselves from one animal to the other. CTVT commonly affects dogs' genitals and is usually transmitted during mating. But sometimes the cancer can affect other areas like the nose, mouth and skin. In the study, the researchers reviewed a database of almost 2,000 cases of CTVT from around the globe and found that only 32 CTVT tumours affected the nose or mouth. Of these, 27 cases were in male dogs. The findings are published today in the journal Veterinary Record. The most common symptoms of the oro-nasal form of the cancer are sneezing, snoring, difficulty breathing, nasal deformation or bloody and other discharge from the nose or mouth.

## An integrative approach to cancer care



Stay connected with

[facebook.com/vivaldisanimalhealth](https://facebook.com/vivaldisanimalhealth) | [instagram.com/vivaldisanimalhealth](https://instagram.com/vivaldisanimalhealth) | [linkedin.com/company/vivaldisanimalhealth](https://linkedin.com/company/vivaldisanimalhealth)

**VIVALDIS**  
Animal Health

Vivaldis Health & Foods Pvt. Ltd.

Office No. 803/804, Clover Hills Plaza, NIBM Road, Pune- 411048, Maharashtra, India.

Help-line No.: +91 7767922244 | Email : info@vivaldis.co.in | Website : www.vivaldis.co.in

1.<http://surl.li/clhtc> | 2.<http://surl.li/clhtd/f77vm6>

## VIVALDIS CORNER

Vivaldis was a gold sponsor of PPAK Vetopia 2022 organized in association with NVF, held at Hilton Garden Inn Embassy Manyata Business Park Bangalore. Over 430 eminent Veterinarians from all across the country attended this conference. The event is from 15<sup>th</sup> - 19<sup>th</sup> July, the first two days was presided over by the speakers Dr Steven de Decker and Dr Noopur Desai lecturing on Neurology and Oncology topics.

18<sup>th</sup> and 19<sup>th</sup> July workshop is on thoracolumbar hemilaminectomy, lumbosacral laminectomy and cervical - ventral slot. Sharing a few glimpses from the event.

## PPAK VETOPIA 2022

