Author's Accepted Manuscript

VORICONAZOLE

Richard R. Sim



PII: S1557-5063(16)30077-5

DOI: http://dx.doi.org/10.1053/j.jepm.2016.06.004

Reference: JEPM680

To appear in: Journal of Exotic Pet Medicine

Cite this article as: Richard R. Sim, VORICONAZOLE, *Journal of Exotic Pet Medicine*, http://dx.doi.org/10.1053/j.jepm.2016.06.004

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting galley proof before it is published in its final citable form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

ACCEPTED MANUSCRIPT

Voriconazole

Richard R. Sim, DVM Birmingham Zoo, Inc. Animal Health Center 2630 Cahaba Rd. Birmingham, AL 35223

USA

Email address: rsim@birminghamzoo.com

Voriconazole (VCZ) is a second generation triazole that is an antifungal agent used in human and veterinary medicine to treat systemic fungal infections. Approved by the United States Food and Drug Administration (USFDA) in 2002, it is a synthetic derivative of fluconazole with changes to the chemical structure that resulted in a greater antifungal spectrum when compared to fluconazole. In human medicine, VCZ has an enhanced spectrum of activity that includes *Candida* spp., *Aspergillus* spp., *Cryptococcus* spp., dimorphic fungi (e.g., *Blastomyces dermatitidis, Coccidioides immitis, Histoplasma capsulatum*), and filamentous fungi (e.g., *Fusarium* spp.), but not Zycomycetes. Due to its high oral bioavailability and efficacy, VCZ has become a mainstay of both primary and salvage treatment of human invasive aspergillosis and candidiasis. 1,2,3,4 In the last decade, evidence for the use of VCZ in veterinary patients has started to accumulate. At this time a generic option for this medication is now available, therefore the use of this antifungal agent may no longer be cost-prohibitive.

In humans, the pharmacokinetics of VCZ is non-linear; therefore the drug's dose dictates the pharmacokinetics.¹ Similar dose dependent therapeutic levels appear to occur across taxa for this medication. Voriconazole is eliminated by the hepatic enzyme P450 with saturation possible.¹ In some animal species, other than humans, there is evidence that the drug auto-induces its own metabolism with repeated administration.

Download English Version:

https://daneshyari.com/en/article/5535802

Download Persian Version:

https://daneshyari.com/article/5535802

<u>Daneshyari.com</u>