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Clinical and ultrasonographic findings of some ocular conditions in sheep, goats and camels

Omar El-Tookhy
Cairo University, Egypt

Ocular diseases in food-producing animals play a significant role in economic losses. Individual ophthalmic examinations are not frequently performed as part of a herd health program but are very important to ensure the herd health. Sheep and goats are highly exposed to outbreaks of infectious keratoconjunctivitis and other conditions causing corneal opacity. Early cases (70%) showed varying ocular conditions of anterior uveitis (46%) with other manifestations on the corneal and in the anterior chamber. Ultrasonographically, the pupil appeared constricted with increased hyperechoic thickening of the ciliary body. In chronic cases, corneal pigmentation (10%) and cataract (20%) were seen. Among camels, trauma-related problems were the most common eye problems. This included keratitis with/without the involvement of iris and ciliary body in the form of iridocyclitis (31%) and penetrating corneal wounds (23%). Lesser observations involving cataract (16%) and glaucoma (2%) were recorded. Posterior segment affections constituted (27.5%) and included intraocular tumor (2%), retinal detachment (6%) and blindness (20%). Ocular ultrasonography enables the visualization of inner ocular structures especially when corneal opacity prevents visualization of retro bulbar region. From the owner's perspective, ultrasound provides a more precise tool for investigating the eyes and is influential in making decisions regarding the treatment of their animals. From the practitioners' point of view, detection of ocular abnormalities using ultrasound prior to any interference helps in planning the possible way(s) of management and treatment. It also provides a better prognosis of the expected outcomes.

Biography

Omar El-Tookhy has travelled for predoctoral scholarship and visits to Germany and Switzerland, postdoctoral study and work in Canada and has spent 3 years at Qassim University, KSA as vet-surgery Professor. Currently, he is working as a full Professor at Cairo University, School of Veterinary Medicine, Egypt. He has published more than 21 papers in reputed journals and serving as a reviewer for some international journals in his field.

oeltookhy@gmail.com

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