

Material and method: Cross sectional study with purposive sampling was conducted in 104 dogs including both stray and pet dogs. Blood samples collected were processed for qualitative detection of IgG antibody by using Canine *Leptospira* Antibody Test Kit (ImmunoComb®, Biogal Galed Labs., Israel) which is based on dot-ELISA technology.

Result: Of the 104 samples tested, 17 samples were strong positive while 25 samples were in the border line for canine leptospirosis showing prevalence of 16.35% (17/104). With respect to relationship between sex and prevalence the result is statistically significant at $p < 0.05$, which reveals that there is greatest chance of infection for males to females.

Conclusion: The result shows increasing prevalence of leptospirosis with time which demands the necessity of national level surveillance and control programs into action without any delay.

Key Words: *Leptospira, Prevalence, Antibody*

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FAVA-0017

External Skeletal Fixation for Tendon Repair in Equines

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M. Shokry¹, S. Gadalla¹, E. El-Husseiny¹, H. Farghalli¹

¹surgery anesthesiology & radiology, faculty of veterinary medicine cairo university, giza, Egypt

Healing after tenorrhaphy of transected flexors in combination with external skeletal fixation of the metacarpophalangeal joint in 8 equine species (6 donkeys and 2 horses) was evaluated clinically, ultrasono-graphy and histologically for 3 months. The external skeletal fixation device was used to induce mild flexion of the metacarpophalangeal joint to the degree that keeping the apposition of the sutured tendon without tension until healing.

Tendon, tenorrhaphy, external skeletal fixation, single locking suture

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Quantification of collagen deposit in liver fibrosis using CellProfiler

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D. Kuppan Rajendran¹, G. Phang¹, A. Toh¹, K.F. Chooi¹

¹Applied Science, Temasek Polytechnic, Singapore, Singapore

Liver fibrosis is a complex response to hepatic damage. Death of liver cells with inadequate cell regeneration coupled with repair by collagen deposition, lead to changes in hepatocyte morphology, liver architecture and the vascular system with the end result being cirrhosis, liver failure and death. Quantification of fibrosis is essential for the assessment of disease severity and effectiveness of therapy. The aim of this project is to compare quantification of fibrosis by CellProfiler with quantification by Ishak fibrosis score and collagen assay. CellProfiler is open source automated image analysis software. Liver fibrosis was induced in rats by treatment with dimethylnitrosamine (DMN) at 10mg/kg for 3 days a week for a period of 4 weeks. The animals were sacrificed weekly interval and the liver was examined at the gross and microscopic level. There was high correlation between the results of CellProfiler imaging, the Ishak fibrosis score and the collagen assay. A minor limitation is that the software scoring depends on image intensity. We conclude that CellProfiler software is a sensitive, objective and rapid method of quantification of liver fibrosis that can be applied to large numbers of samples. It is an extremely valuable method that supports the current gold standard of pathological scoring.

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A comparison of immune responses of broilers when fed diets supplemented with nettle (*Urtica dioica*) or commercial feed additives

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H.A. Ghasemi¹, K. Taherpour²

¹Department of Animal Science, Faculty of Agriculture and Natural Resources Arak University, Arak, Iran

²Department of Animal Science, Faculty of Agriculture Ilam University, Ilam, Iran

With the rising concerns over food safety during the last years, there has been an intense attempt for eliminating or substituting antibiotic growth promoters in poultry feeds. Therefore, in order to investigate the impact of natural alternatives for antibiotics, an experiment was conducted to examine the comparative effect of nettle (*Urtica dioica*),