

# 7<sup>TH</sup> INTERNATIONAL VETERINARY CONGRESS

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### Analysis of serum and cerebrospinal fluid in clinically healthy dromedary camels (*Camelus dromedaries*)

Analysis of cerebrospinal fluid (CSF) is a valuable aid in the diagnosis of neurological disorders in man and animals. Previous reports documented the normal constituents of CSF in camel cadavers after slaughter. The purpose of the present paper was to establish a safe technique of sampling CSF from live camels and compare the obtained values with their serum constituents. An experimental design was performed in seven apparently healthy camels. There were 4 males and 3 females of 4-9 years old. The animals were clinically examined then blood samples were obtained from the jugular vein for serum biochemical analysis. Each camel was then sedated with an intravenous injection using 2% xylazine hydrochloride. The caudal part of the neck was aseptically prepared. CSF sample was withdrawn from the Atlanto-occipital articulation. Lateral radiographs of the neck were obtained while the needle was *in situ*. Eighteen biochemical parameters were determined from the serum and CSF of each camel. Serum had most of CSF tested parameters and was extremely significant in comparison to serum parameters. CSF parameters had lower concentration of all the studied parameters than the serum, except for the sodium and chloride. The mean value of sodium ( $150.3 \pm 1.70$  mmol/l) and chloride ( $114.5 \pm 1.49$  mmol/l) in CSF were significantly ( $P < 0.03$ ) higher than their mean values in serum;  $154.5 \pm 0.92$  mmol/l and  $131.3 \pm 2.5$  mmol/l respectively. Gender had no relevant effect on the most CSF measured parameters.

### Biography

Turkey Shawaf is working at Department of Clinical Studies, College of Veterinary Medicine, King Faisal University, Saudi Arabia. His experience includes various programs, contributions and participation in different events for diverse fields of study. His research interests reflect in his wide range of publications in various national and international journals.

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