

Ayman Ahmed Elzein Elnhas

BVSc, MVSC, PhD

**Assistant Professor, Department of Surgery, King Faisal
University**

Professional Overview

Since graduation, I have been working in the field of Veterinary Medicine and Surgery. Immediately after graduation I went for a six months training program in a mixed veterinary clinic in Bester, United Kingdom. I learned several techniques dealing with admission, diagnosis and treatment of different pet and farm animals. I successfully engaged myself in different activities in the clinic which gave me the chance being familiar with different conditions affecting animals. Back to Sudan, I started my work as a teaching assistant in the department of surgery and anesthesia and registered for master study. I worked in the effect of different anesthetic protocols in dogs. In addition, I worked as a Veterinary consultant with Sudanese Equestrian Union. Eagerly I went gain to the United Kingdom attending a three months training course in Hereford farrier school. I learned different concepts on normal and medical trimming and shoeing in horses. After coming back to Sudan, I organized a training course targeting veterinarians and farriers in Sudan.

In 2004, I got an acceptance for doing my PhD study in the department of large animal surgery, faculty of veterinary medicine, university of Leipzig with a scholarship from the Ministry of High Education in Sudan. This chance was a golden opportunity which lightens my mind to different aspects of diagnostic imaging, anesthesia and treatment of different cases. My placement with a European group known to be famous in the field diagnosis and treatment of animal disease and the fact that my supervisor and other researchers in that group were editors in surgical and medical journals and members of the European board of veterinary surgery allowed me to be oriented, dependable and increase my experience. This gave me more motivation to continue my career as an energetic curious researcher. I am still eager learning new aspects and applying what I have already learned in a creative, effective way for the sake of the community. I am sure that good performance always needs hardworking, highly dynamic, organized researchers and hope to be among those who have these criteria. Hands on having better research and better future.

Core Qualifications

- Surgery
- Diagnostic imaging
- Cattle lameness (diagnosis and management)
- Equine lameness (diagnosis and management)
- Obstetrics and gynecology
- Academic planning
- Statistical analysis and data interpretation
- Conventional Parasitology
- Pathology

Accomplishments

- First study on camel liver using ultrasound.
- First study on camel tarsal joint using computer tomography, ultrasound and X-ray
- First study on ophthalmic conditions in cattle and horses in Khartoum state, Sudan.
- Establishment of joint research activities between Germany, KSA, Egypt and Sudan resulted in everla publications from researchers in the consortium.
- First report on the prevalence of Echinococcosis and Cystic echinococcosis in different animal species and regions with its genetic identification in the Sudan.

Education

- Ph.D.: Veterinary Surgery and imaging diagnosis, University of Leipzig, Germany, 2007.
- Master of Veterinary Anaesthesia, University of Khartoum, Sudan, 2001.
- Bachelor of Veterinary Science, University of Khartoum, Sudan, 1995.
- High School Diploma: Sudanese Higher School Certificate
- Khartoum Old High School for boy, Khartoum, Sudan, 1988.

Contact

- Department of Surgery and anaetheisa, Faculty of Veterinary Medicine, University of Khartoum, PO. Box.32, Khartoum North, Sudan
- Email: aymanahas2003@yahoo.com
- Telephone: 00249912353429

Thesis/Dissertation

Ultrasonographical examination of the liver of one humped camels (*Camelus dromedarius*)

This is the first study on ultrasonographical examination of the liver in the one humped camel. The objective was to describe the echo pattern of the hepatic vessels and parenchyma in apparently healthy dromedary camels. This study was conducted on 41 camels from Sudan and Egypt. Sternal recumbancy was suitable and safer for examinations. The liver was visualized on the right side in the area from 11th to 6th intercostal space (ICS). The transverse process of the 2nd lumbar vertebra was considered as a reference point (RP). The mean distance between the RP and the dorsal and ventral liver margins was measured. The parenchymal pattern consisted of numerous medium echoes homogenously distributed all over the area of the liver. Fissures observed in the visceral surface in the 10th to the 7th ICS. Hepatic, portal veins and the caudal vena cava were also visualized. Porta hepatis was found at the same level of the point of the shoulder joint at 70.3 ± 6.3 cm. The portal vein was best visualized in the 10th ICS. The thickness of the dorsal and ventral liver margins at the 10th ICS was thinner as it progressed cranially. The dorsal margin was thinner than the ventral margin in all ICS. The whole liver length in the described area for examination was 53.0 ± 7.1 cm. The presented data is a base for future use of ultrasound in diagnosis of liver diseases in the dromedary camel. The technique is non-invasive and can be applied in sitting non-tranquilized animals.

Experience

- Teaching Assistant at the Department of Surgery and Anaesthesia, Faculty of Veterinary Medicine, University of Khartoum.
- Teaching students of the 4th and 5th year the practical parts of surgery and gyneacology. to Assisting teaching staff in the department with preparation and correction of class activities, seminars, workshops and exams.
- Held office hours to diagnose and treat cases admitted to the university teaching veterinary hospital
- Help students in being familiar with diagnosis and treatment of surgical cases.
- Accompanying students in clinical tours in rural areas.
- Lecturer and assistant professor at the Department of Surgery and Anaesthesia, Faculty of Veterinary Medicine, University of Khartoum.
- Teaching Assisting new teaching staff in the department accomplishing their work and upgrading their knowledge by finding them the right research topics and scholarships for PhD.
- Held office hours to diagnose and treat cases admitted to the university teaching veterinary hospital.
- Help students in being familiar with diagnosis and treatment of surgical cases.
- PhD Student, Department of large animal surgery, faculty of Veterinary Medicine, University of Leipzig, Germany
- Attending daily visita discussing the diagnosis and treatment of admitted cases.
- Attending and sharing in the weekly journal clubs and seminars organized in the department.
- Sharing in clinical diagnosis, imaging diagnosis and surgical treatment of patients in the clinic.
- Head department of Surgery and Anaesthesia, Faculty of Veterinary Medicine, University of Khartoum
- Supervising master and Phd students in Sudan, Egypt and Germany Intiating collaboration projects with Germany, Kingdom Saudi Arabia, Egypt and Sudan for the diagnosis and treatment of camel health problems.
- Attending meetings of the senate research and examination committees.

Fellowships and Awards

- Scholarship of the ministry of high education, Sudan for a PhD study in Germany (2004-2007).

Publications

- Oesophagoscopy and endoscopic aided removal of oesophageal foreign bodies in camel calves (*Camelus dromedarius*) (2017). T. Shawaf, O. R. Ramadan., **A. Elnahas.**, I Eljalii and M. F. Al Salman *Journal of Cam. Pract. Resc:* 24(1): 35-39.
- Cerebrospinal fluid collection and its analysis in clinically healthy dromedary camels (*Camelus dromedarius*) (2017). T. Shawaf, O. R. Ramadan., Al Aiyani A., Hussien J., M. F. Al Salman., I Eljalii and **A. Elnahas.**, and *Journal of Cam. Pract. Resc:* 25(1): 1-5
- First detection of *Echinococcus granulosus sensu stricto* (G1) in dogs in central Sudan (2018). Rihab A. Omer ; Arwid Dausgchies ; Sandra Gawlowska ; **Ayman Elnahas** ; Peter Kern ; Sofia Bashir ; Mohammed Sir Alkhatim Ali ; Amin Osman; Thomas Romig. *Parasitology Research*. DOI 10.1007/s00436-018-5851-5
- Computed Tomography of the Hind Limbs in Healthy Dromedary Camel Foot (2015). **Ayman El Nahas**, Usama Hagag, Walter Brehm, Ramadan O. Ramadan, Adel Al Mubarak, Kerstin Gerlach. *U. of K. J. Vet. Med. Anim. Prod.*, Vol.6, Issue 2 (2015) p 98-102.
- Seroprevalence of *Babesia bigemina* antibodies in cattle in North Kordofan State, The Sudan (2015). Yassir Adam Shuaib., Halima M Osman., Mohamed O Hussien., Mohamed A Bakheit., Rihab A Omer., **Ayman Elnahas.**, Siham Elias., Mohamed A Abdalla., Ahmed A Ismail. *ARC journal of animal and veterinary sciences;* 1(2): 1-11.
- Normal radiographic and ultrasonic appearance of the adult dromedary camel tarsus (One humped camel) (2012). U Hagag., W Brehm., R O Ramadan., A Al Mubark., **A El Nahas.**, K Gerlach. *Anatomia histologia embryologia*, 42 (5).
- Carotid lateralization for repetitive arterial blood sampling in camel (camelus dromedaries) (2012). R O Ramadan., U hagag., J C Inoita., **A Elnahas.**, A L Almubark. *Journal of camel practice and research*, 19(2): 165-168.
- Toe-out conformation in thoroughbred horses in Sudan (2005). Ramsay Hovell., David Symons., **Ayman Nahas**. *The veterinary record*, 157(17): 528.
- A molecular survey of cystic echinococcosis in Sudan (2010). Omer R. A. Dinkel A, Romig T, Mackenstedt U, **Elnahas A A**, Aradaib I E, Ahmed M E, Elmalik K H, Adam A. *Vet Parasitol.* 11169 (3-4): 340-346.
- Strain characterization of human hydatidosis in Sudan (2004). Omer R A, Dinkel A, Romig T, Mackenstedt U, Elamin M, **Elnahas A**, Aradaib I. *International Archives of hydatidosis.* 35 (41).

- Strain Characterization of cystic echinococcosis in livestock in Sudan (2004). Omer R A, Dinkel A, Romig T ,Mackenstedt U, Aradaib I. International Journal of Medical Microbiology. 293(58):59-59
- Strain Characterization of human hydatidosis in the Sudan (2007). Omer R A, Dinkel A, Romig T, MackenstedtU, Elamin M, **Elnahas A**, Aradaib I. American Journal of Tropical Medicine and hygiene. 77 (5): 107-107.
- Human hydatidosis in Sudan: Is it a sporadic or endemic disease? (2008). Omer R A, Dinkel A, Romig T,Mackenstedt U, Elamin M, **Elnahas A**, Aradaib I, Elmahdi I. American Journal of Tropical Medicine and hygiene. 79 (6): 120-120.

Presentations

- Prevalence and molecular characterization of Echinococcus spp in stray dogs in Central Sudan (2009). Omer R A, Dinkel A, Mackenstedt U, **Elnahas A**, Romig T, Oral presentation in the 22nd conference of the World Association for the Advancement of Veterinary Parasitology. Calgary, Canada.
- Human hydatidosis in Sudan: Prevalence and strain identification (2011). Omer R A, **Elnahas A**, Romig T. Oral Presentation in 4th annual conference of the Malaysian Society of Parasitology and Tropical medicine. Kuala Lumpur, Malaysia.
- Hydatidosis in Sudan: Are sheep playing a minor role in the parasite cycle? Omer R A, **Elnahas A**, Romig T.Oral presentation in the international conference of the society of Veterinary Epidemiology and Preventive Medicine. Leipzig, Germany.
- Human hydatidosis in Sudan: Is it a predominant neglected zoonosis or an un seen re-emerging disease? OmerR A , **Elnahas A**, Romig T, Dauschies A. (2012). Meeting of the German Zoonosis Platform. Berlin, Germany.
- Survey on the presence of Echinococcus spp in stray dogs in central Sudan: first report on the presence of Echinococcus granulosus sensu latu (sheep strain). Omer R A, **Elnahas A**, Arwid Dauschies, Ute Mackenstedt and Thomas Romig. (2011). 24th International Conference of Hydatidology. Urumqi, China.
- Detection of ruminant-derived contaminants in animal feed (2003). I E ARadaib., A E Karrar., **A yman Elnahas.**, Rihab Ali Omer., A A Majid. The proceeding of the 26th Arab Veterinary Congress, Cairo, Egypt.

Memberships/Scholarly Societies

- Member of the German Society of Veterinary Doctors.
- Member of the Sudanese Veterinary Association