

# ***CURRICULUM VITAE***

## **PERSONNEL DETAILS:**

**Name:** Mohamed Hamrouni S. Abushhiwa

**Date of birth:** 27/02/1976

**Nationality:** Libyan

**Current address:** Tripoli, Libya

## **CURRENT OCCUPATION:**

- **Associate Professor and Lecturer** at The Department of Surgery and Theriogenology, The Faculty of Veterinary Medicine, University of Tripoli, Tripoli, Libya
- Teaching **Veterinary Diagnostic Imaging and Veterinary Surgery** for the undergraduate and postgraduate students **since September 2010**

## **EDUCATIONAL BACKGROUND:**

- Bachelor of Veterinary Sciences (**BVSc**), average grade (81.9%) from the Faculty of Veterinary Science, **University of Tripoli**, Tripoli/Libya (**1999**)
- English for Academic Purposes Certificate (**ELOCS**) from **RMIT University**, Melbourne, Australia (**2004**)
- Academic EILTIS with a score of 6.5 undertaken at **Hawthorn English centre**, Melbourne, Australia, (**2004**)
- Master of Veterinary Studies (**MVS**) in Diagnostic Imaging (by course work and research) from the Faculty of Veterinary Science, **The University of Melbourne**, Australia, (2005)
- Doctorate of Philosophy (**PhD**) in Veterinary Nuclear medicine, the thesis title is “The use of new radiopharmaceuticals to diagnose inflammation in horses, dogs and cats” from the Faculty of Veterinary Science, **The University of Melbourne**, Australia (2010)

## **POSITIONS:**

- **Demonstrator** at the Department of Surgery and Theriogenology, Faculty of Veterinary Medicine, University of Tripoli (from **09/1999 to 09/2003**).
- **Lecturer** at the Department of Surgery and Theriogenology, Faculty of Veterinary Medicine, University of Tripoli (from **09/2010 till now**). I have been responsible for teaching under and Postgraduate Veterinary Diagnostic imaging and Veterinary Surgery.
- Member of International Society of Radiolabelled Blood Element (**ISORBE**) from 2009 to 2012.
- **Head of the Quality Assurance Office of the Faculty of Veterinary Medicine, University of Tripoli (from 2010 to 2013).**
- **Head of the Department of Surgery and Theriogenology, Faculty of Veterinary Medicine, University of Tripoli (from 2013 to 2015).**
- **Head of the Curriculum Reform Committee at Faculty of Veterinary Medicine, University of Tripoli (from 10/2011 to 10/2015).**
- **Member of the editorial board of Libyan Journal of Veterinary and Medical Sciences** from **2013-2016**. This journal is a biannual journal published by the Faculty of Veterinary Medicine, University of Tripoli.
- Member of the Scientific committee of **the Biotechnology Research Centre, Tripoli Libya between 2011-2013.**

## **AREAS OF EXPERTISE:**

- **Radiation safety**
- **Veterinary Radiology:**
  - X-ray for equine and small animals (excellent)
  - Ultrasonography (good)
  - CT/MRI (acceptable)
- **Nuclear Medicine and Radiopharmacy (excellent):**
  - Advanced training at the Nuclear Medicine Department of Royal Melbourne Hospital [Australia] which includes:
    1. In vitro and In vivo radiolabelling of leukocytes
    2. In vitro radiolabelling of erythrocytes
    3. Radiolabelling avidin/biotin system

4. Preparation of various radiopharmaceuticals used for bone scan, lung scan, kidney scan and cardiac scan.

○ **Histo-Pathology:**

- Induction and assessment of inflammatory lesions

**Work experience:**

- Working as part time equine clinician at the Aswany private Equine Veterinary Clinic from 2016 to 2019
- Working as part time equine clinician at the Misrata private Equine Veterinary Clinic since October 2020
- Delivering three Veterinary Radiology workshops (including lectures and practices) to the Veterinarians employed by the Ministry of Agriculture and Animal health, Tripoli office in 1-3 December 2012 and 20-23 February and 10-13 March 2013
- Participating in the **Kidney Transplant Workshop** on sheep models organized by the kidney transplant section at The Tripoli Central Hospital and The Faculty of Veterinary Medicine, University of Tripoli in March 2012.
- Participating in the **Wound Management Workshop** for human doctors and nurses organized by The Wound Academy Organization and The Faculty of Veterinary Medicine, University of Tripoli in April 2013.
- Participating in the **Laparoscopy Workshop on goat models** organized by the kidney transplant section at The Tripoli Central Hospital and The Faculty of Veterinary Medicine, University of Tripoli in June 2014

## **PUBLICATIONS:**

### **Paper in scientific journals:**

1. **M. Abushhiwa**, N. Salehi, R. Slocombe, P. Finnin, I. Caple, P. Lording, R. Whitton, A. Clarke. Tc-99m Tin fluoride colloid: Efficiency of labelling equine and canine leucocytes and effect on cell viability. **ANZ Nucl Med**, 2006; 37: 1-3.
2. **M. Abushhiwa**, N. S. Salehi, R. Slocombe, P. Finnin, R. Whitton, I. Caple (2006). Cell function and distribution of radioactivity among blood components after labelling equine leucocytes with <sup>99m</sup>Tc-SnF colloid. **Eur. J. Nucl. Med.** Volume 33, Supplement 14 / September, 2006.
3. **Mohamed H. Abushhiwa**, Nouria S. Salehi, Robert C. Whitton, Jennifer A. Charles, Peter J. Finnin, Peter M. Lording, Ivan W. Caple, Bruce W. Parry. *In vitro* evaluation of canine leukocytes radiolabeled in whole blood with <sup>99m</sup>Tc stannous colloid. **Nuclear Medicine and Biology**, 2008; 35: 707-712.
4. *In vitro* evaluation of feline leukocytes radiolabeled in whole blood with <sup>99m</sup>Tc stannous colloid. **Mohamed H. Abushhiwa**, Nouria S. Salehi, Robert C. Whitton, Jennifer A. Charles, Peter J. Finnin, Peter M. Lording, Bruce W. Parry. **Veterinary Radiology and Ultrasound**, 2009; 50: 545-549.
5. Normal biodistribution of canine leukocytes labeled in whole blood with technetium-99m stannous fluoride colloid and their ability to localize induced inflammatory foci. **Mohamed H. Abushhiwa**, Nouria S. Salehi, Meir Lichtenstein, Peter M. Lording, Peter J. Finnin, Robert C. Whitton, Jennifer A. Charles, Bruce W. Parry. **The Veterinary Journal**, 2010, 85, 157-62.
6. Abushhewa, **M. H.**, **Abushhiwa**, M. H., Nolan, M. J., Jex, A. R., Campbell, B. E., Jabbar, A. and Gasser, R. B. Genetic classification of *Echinococcus granulosus* cysts from humans, cattle and camels in Libya using mutation

- scanning-based analysis of mitochondrial loci. **Mol Cell Probes**, 24, 346-51, 2010.
7. Pathology of Spontaneous tumors in different domestic animals. Mahir A.G. Kubba, **Mohamed Abushhiwa**, Seham A. Al.zreg, Lutfi M. Ben Ali, Al-Sayed R. Al.attar. **Libyan Veterinary Medical Sciences Journal**. 2012, 3, 54-70.
  8. Mohamed Marzok, Lotfi Ben Ali, Jalal Abdelhadi, **Mohamed Abushhiwa**. Case report-Unusual radiographic findings in a puppy with esophageal diverticulum. **Online Journal of Veterinary Research**, 2013, 17, 691-697.
  9. Short communication: Retrospective study of clinical and radiographic diagnosis of diaphragmatic hernia in local Libyan cats. **Mohamed H. Abushhiwa**, Lufti M. Ben Ali, Emad Bennour Jalal Abdelhadi, Mohamed Marzok. **Libyan Journal of Veterinary Medical sciences**, 2014, 1, 46-57.
  10. A Retrospective Study on Appendicular Fractures in Dogs and Cats in Tripoli – Libya. Bennour E. M., **Abushhiwa M. A.**, Ben Ali L., Sawesi O. K., Marzok M. A., Abuargob O. M., Tmumen S. K., Abdelhadi, J. A, Benothman M. E., Said E. M. and El-Khodery S. A. **J Vet Adv.**, 2014, 4, 425-431.
  11. Antibacterial activity of selected Libyan medicinal plants against *Pseudomonas aeruginosa* and *Escherichia coli*. Abdouhraouf A. Habibi, Sadek A. Zubek, **Mohamed A. Abushhiwa**, Mohamed O. Ahmed, Sabry A. El-Khodery, Hamdy Y. Osman, Emad M. Bennour. **Journal of Pharmacognosy and Phytochemistry**, 2015; 3, 197-201.
  12. Feline Injection Site Sarcoma (FISS): Clinicopathologic Findings in Cats. Lufti M. Ben Ali, Seham A. Al- Azreg, **Mohamed H. Abushhiwa**, Mohamed A.Marzok, Mahir A. Kubba. **Libyan Journal of Veterinary and Medical Sciences**, 2015,1, 37-41.

13. Metacarpophalangeal joint angle measurement in equine forelimbs. Alrtib A. M., Oheida A. H., **Abushhiwa M. H.** and Davies H. M. S. *J Vet Adv* 2015, 5, 831-840.
  
14. Cutaneous squamous cell carcinoma in the lateral abdominal region in Local Libyan Ewes. K. S. Tmumen, S.A. Al-Azreg, **M. H. Abushhiwa**, M. A. Alkoly, E. M. Bennour and S. R. Al-attar. *Open Veterinary Journal*, (2016), Vol. 6(2): 139-142.
  
15. Carpal Parameters on Dorsopalmar Radiographs of the Equine carpus. Aiman H. Oheida, Garry A. Anderson, Abdulrhman M. Alrtib, **Mohamed Abushhiwa**, Christopher J. Philip and Helen M.S. Davies. *J. Vet. Adv.*, 2016; 6(6): 1258-1268.
  
16. Amputation at the Mid Femur of a Libyan Doe, Case report. Samir K. Tmumen, Emad M. Bennour, Younes A. Almusrati, Abdulrhman M. Alrtib, Esam B. Alhmali and **Mohamed H. Abushhiwa**. *Libyan Journal of Veterinary and Medical Sciences June 2016 Vol. 2 (1): 27-28.*
  
17. Effect of Limb Rotation on Radiographic Measurements of Carpal Parameters in the Equine Carpus, Oheida A. H., Anderson G. A., Alrtib A. M., **Abushhiwa M. H.**, Philip C. J. and Davies H. M. S. *J Vet Adv* 2017, 7(3): 1392-1402.
  
18. Successful Anatomical Access for Surgical Removing of the Distal Fracture of Splint Bones in Thoroughbred Horses (Case Study). **Mohamed H. Abushhiwa**, Osma K Sawesi, Khaled A. Milad, Aiman. A. Shalgum and Abdulrhman M. Alrtib. *Al-Mukhtar Journal of Sciences*, 2019, 34 (2): 84-90
  
19. Clinical, radiological, and pathological findings of primary nasal osteosarcoma in a Libyan cat. **Mohamed H. Abushhiwa**, Seham A. Al-Azreg, Samer K. Tmumen, Abdulrhman M. Alrtib, Abdulkareem K. Elbaz, Mahir A. Kubba, Al-Asayed R. Al-Attar, and Emad M. Bennour. *Open Veterinary Journal*, (2019), Vol. 9(4): 331–334

20. Patellar luxation in Hejazi goats. **Mohamed H. Abushhiwa**, Adulrhman M. Alrtib, Taher N. Elmeshreghi, Mouna A. Abdunnabi, Mansur E. Shmela and Emad M. Bennour. **Open Veterinary Journal**, 2021, 11(2), 295-300.
21. Carpal Morphometry in Normal Horses and Horses with Carpal Bone Pathology. Aiman H. Oheida, Adulrhman M. Alrtib, **Mohamed H. Abushhiwa**, Christopher J. Philip and Helen M.S. Davies. **Alexandria Journal of Veterinary Science. AJVS**, Vol. 72, January 2022.
22. Effect of limb rotation on measurements of equine metacarpophalangeal radiographs. Adulrhman M. Alrtib, Aiman H. Oheida, **Mohamed H. Abushhiwa** and Helen M.S. Davies. **Mansoura Veterinary Medical Journal**, 06 December 2021.
23. First phalanx exostosis in traditional equestrian horses in Western Libya. **Mohamed H. Abushhiwa**, Taher N. Elmeshreghi, Aiman H. Oheida, Adulrhman M. Alrtib and Emad M. Bennour. **Accepted for publication Open Veterinary Journal**, February 2022.

**PAPER IN CONFERENCE PROCEEDINGS:**

- 1) M. Abushhiwa, N. Salehi, R. Slocomb, P. Finine, I. Caple, P. Lording, R. Whitton, A. Clarke (2006) Labelling efficiency and effect on viability of <sup>99m</sup>technetium stannous fluoride colloid on equine and canine leucocytes. The 36<sup>th</sup> Annual Scientific Meeting of the Australian and New Zealand Society of Nuclear Medicine, Perth, Australia, 2006, abstract 220, page 22.
- 2) M. Abushhiwa, N. Salehi, R. Slocombe, B. Parry, S.Church, I. Caple, M. Muurlink, T. Puksmann, R. Whitton, A.F. Clarke (2006). Study the boidistribution and safety of <sup>99m</sup>technetium stannous fluoride colloid-labelled leucocytes in two mature, healthy horses. The 36<sup>th</sup> Annual Scientific Meeting of the Australian and New Zealand Society of Nuclear Medicine, Perth, Australia, 2006, abstract 220, page 23.
- 3) Mohamed Abushhiwa, Nouria Salehi, Ron Slocomb, Peter Finnin, Peter Lording, Chris Whitton, Ivan W Caple. *In vitro* evaluation of canine leucocyte

labelled with  $^{99m}\text{Tc}$ -Stannous fluoride colloid. The 9<sup>th</sup> World Congress of Nuclear and Biology, 22-27, October, 2006.

- 4) Mohamed H. Abushhiwa, Nouria S. Salehi, Meir Lichtenstein, Peter J. Finnin, Peter M. Lording, Robert C. Whitton, Jennifer A. Charles, Bruce W. Parry. Biodistribution of canine leukocytes labelled in whole blood with technetium-99m stannous fluoride colloid and their use in localising induced acute intradermally inflammation. The 6<sup>th</sup> international conference of isotopes, Korea, May, 2008.
- 5) Mohamed H. Abushhiwa, Nouria S. Salehi, Meir Lichtenstein, Peter J. Finnin, Peter M. Lording, Robert C. Whitton, Jennifer A. Charles, Bruce W. Characterisation of Feline Leucocytes Labelled with  $^{99m}\text{Tc}$  Stannous Fluoride Colloid. The 38<sup>th</sup> Annual Scientific Meeting of the Australian and New Zealand Society of Nuclear Medicine, Brisban, Australia, May, 2008.
- 6) Failure to detect sites of segmental intrapulmonary blood inoculation using multiple diagnostic imaging techniques in conscious horses. Peter Finnin, Marjorie Milne, Mohamed Abushhiwa, Tanya Puksmann, Chris Whitton, Ronald Slocombe. The 10<sup>th</sup> Congress of the World Equine Veterinary Association, Moscow, Russia, February, 2008.
- 7) Abushhiwa MH, Salehi NS, Whitton RC, Charles JA, Lording PM, Finnin PJ, Parry BW.  $^{99m}\text{Tc}$ -stannous colloid-labeled equine leukocytes: *in vitro* investigation. The 14<sup>th</sup> Congress of the International Society of Radiolabelled Blood Elements (ISORBE), Antalya, Turkey in 2009.
- 8) Abushhiwa Mohamed, McGennicken Ruth, Karina, Lichtenstein Meir, Bruce Parry, Salehi Nouria. Sn (II) ion requirement for *in vitro*  $^{99m}\text{Tc}$  labelling of erythrocytes. The 14<sup>th</sup> Congress of the International Society of Radiolabelled Blood Elements (ISORBE), Antalya, Turkey in 2009.
- 9) Abushhiwa Mohamed, McGennicken Ruth, Karina, Lichtenstein Meir, Bruce Parry, Salehi Nouria. Sn (II) ion requirement for *in vitro*  $^{99m}\text{Tc}$  labelling of

erythrocytes. The 39<sup>th</sup> Annual Scientific Meeting of the Australian and New Zealand Society of Nuclear Medicine, Sydney, Australia, 2009.

### **REVIEWING SCIENTIFIC PAPERS:**

- Reviewer with the Journal of Nuclear Medicine (JNM), 2009-2011.
- Reviewer with the Journal of Veterinary Science and Medicine, since 2012.
- Reviewer with the Open Veterinary Journal (OVJ), since 2013.

### **REFERREES:**

- **Dr. Nouria Salehi**, Senior nuclear Medicine Scientist, Nuclear Medicine Department, Royal Melbourne Hospital, Melbourne, Australia
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- **Dr. Dayle Tyrrel**, Head of the Diagnostic Imaging Department, Faculty of Veterinary Medicine, University of Melbourne, Melbourne, Australia.
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