

**Sudan University of Science and Technology**  
**College of Graduate Studies**

**Assessment and Comparison of Three Selected Total  
Intravenous Anaesthetic Infusion Combinations in  
Donkeys**

**تقييم ومقارنة ثلاثة من التركيبات التخديرية المختارة المحقونة**

**عن طريق الوريد في الحمير**

A thesis Submitted in Fulfillment of the Requirements for Doctor of  
Philosophy Degree in Veterinary Surgery (Anesthesiology)

**By**

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## الآية

بسم الله الرحمن الرحيم

قال تعالى:

﴿إقرأ باسم ربك الذي خلق﴾ ﴿خلق الإنسان﴾

من علق﴾ ﴿إقرأ وربك الأكرم﴾ ﴿الذي علم﴾

بالقلم﴾ ﴿علم الإنسان ما لم يعلم﴾.

صدق الله العظيم

(سورة العلق الآيات من 1 الى 5)

#### **Declaration**

Here it is to declare that this research work entitled: (Assessment and Comparison of Three Selected Total Intravenous Anaesthetic Infusion Combinations in Donkeys) was carried out in the department of Animal Health and surgery, College of Veterinary Medicine, Sudan University of Science and Technology under the supervision of Prof. Dr. Galal Eldin Elazahry Mohammed Elhassan and Dr. Hisham Ismail Seri Farah.

Mohammed Ahmed Hassan Ghurashi

## ***DEDICATION***

*This work is dedicated to my family:*

*Ahmed, Malaz and Ashwag*

*With my love*

## **Published work**

*Part of this work has been published as paper entitled:*

1. Ghurashi, M.A. H., Seri, H.I., Mohamed, G.E., Ashwag E. A. Musad (2016). Clinical Evaluation of Continuous Intravenous Infusion of Xylazine and Ketamine for Maintenance of Anaesthesia in Donkeys. *SUST Journal of Agricultural and Veterinary Science*. 17(1):1-14.
2. Ghurashi, M.A. H., Seri, H.I., Mohamed, G.E., A.G.A. Bulldan (2016). Maintenance of Total Intravenous Anaesthesia in Donkeys using continuous infusion with Detomidine and Ketamine. *Sudan Journal of Science and Technology*. 17(2): 12-27.