

بسم الله الرحمن الرحيم

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

**Some pharmacotoxic aspects of ivermectin  
injection formulation in donkeys (*Equus asinus*)**

بعض الجوانب السمية-الدوائية لعقار الايفرمكتين المعد للحقن في الحمير

A thesis submitted in fulfillment of the requirement of the Graduate  
College for M.V.M. degree in (Pharmacology)

**By**

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July 2014

## 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)

## **DEDICATION**

*To my father Hassan Ahmed*

*To my mother Batoool Mohammed*

*Who taught me how to smile in the hard circumstances*

*To the youth of the Sudan, the window of hope to a better bright future,*

*To my beloved country hoping that tomorrow brings a prosperous and  
peaceful Sudan*

## **DECLARATION**

Here it is to declare that this research work entitled: Some pharmacotoxic aspects of ivermectin injectable formulation in donkeys (*Equus asinus*) was carried out in the department of Veterinary Medicine and Surgery, College of Veterinary Medicine, Sudan University of Science and Technology under the supervision of Dr. Hisham Ismail Seri Farah and Dr. Siham Elias Suleiman Mohammed

Nihal Hassan Ahamed Ismail

### **Published work**

*Part of this work has been accepted for publication as paper entitled:*

1. Nihal H.A. Ismail; Siham E. Suliman; A.G.A. Buldan; H. I. Seri (2013). Haematological, Biochemical and Histopathological alterations induced by Ivermectin in donkeys (*Equus asinus*). *Sudan Journal of Science and Technology* (Accepted)

# **CHAPTER ONE**

# CHAPTER TWO

# **CHAPTER THREE**



# CHAPTER FOUR

# CHAPTER FIVE

# REFERENCES