

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

**Study of renal morphological  
changes in patients with  
thyroid hormones disorders  
using ultrasonography**

**دراسة تغيرات شكل الكلية لدى مرضي  
اضطرابات الغدة الدرقية باستخدام الموجات  
فوق الصوتية**

**Submitted for the Fulfillment of the Requirements for  
the MSc Degree in diagnostic ultrasonography.**

**By:**

**Omima Elfadil Ahmed**

**Supervisor**

**Dr.Mona Ahmed Mohammed**

**2015**

# Chapter one

# Introduction

Chapter

tow

Literature Review

# Chapter three

## **Materials and Methods**

# Chapter four Result

# Chapter five

## **Discussion, Conclusion & recommendations**