

# Dedication

To:

My family,

Teachers,

&

Colleagues.

# Acknowledgement

My grateful thank to Dr. Hussian Gad Elkarmi Ahmed, for his close supervision.

My gratitude extends to Ustaz: Abd Alla Hassb Alnabi for his technical support.

My gratitude extends to the staff of the Histopathology and Cytology Department at the Radio Isotope hospital and the Police Hospital.

My thankful to my family for encouragement and support.

As well my thankful to my colleagues.

## **ABSTRACT**

This is a descriptive prospective study to assess the cellular proliferative activity in thyroid fine-needle aspiration (FNA) materials. The study was conducted in Khartoum during the period from November 2008 to March 2009. FNA Materials, were obtained from 50 patients (46 females and 4 males), with thyroid palpable lumps. Their ages ranging from 19 to 85 years with a mean age of 40 years old.

The diagnoses of the 50 thyroid FNAs were as follows: 3 (6%) were smears showing atypical cell, 9(18%) were showing thyroid hyperplastic cells, 34(68%) were found with normal thyroid cells and 4 (8%) were identified as non-representative smears.

All of the nine smears that were taken from the patients with thyroid hyperplasia and one smear from a patient with atypical thyroid cells, have showed intense DNA staining (++) by Feulgen staining method. All smears that were diagnosed as containing normal thyroid cells 34(68%) and 2 (4%) of those showing atypical thyroid cells had mild staining intensity.

## 4 ملخص الدراسة

هذه دراسة وصفة مستقبلية تقوم نشاط التكاثر الخلوي في عينات الرشف بالإبر الرفيعة من الغدة الدرقية.

أجريت هذه الدراسة في الخرطوم في الفترة بين نوفمبر 2008 وحتى مارس 2009م.

أخذت عينات الرشف بالإبر من خمسين مريضاً يعانون من تضخم الغدة الدرقية منهم 46 إناث و 4 ذكور. كانت أعمارهم تتراوح بين 19 و 85 عاماً. بمتوسط عمر 40 عاماً.

كان التشخيص ل 50 عينة من الغدة الدرقية على النحو الآتي: 3 (%) أظهرت نمو غير نمطي لخلايا الغدة الدرقية, 9 (18%) أظهرت فرط تنفس خلايا الغدة الدرقية, 34 (68%) كانت من خلايا الغدة الدرقية الطبيعية 4(8%) وجدت أنها مسحات غير مستوفية.

كل من التسع مسحات التي أخذت من المرضى المصابون بفرط تنفس خلايا الغدة الدرقية و واحدة من مسحات المرض المصابون بنمو غير نمطي لخلايا الغدة الدرقية أظهرت كثافة صبغية لـ لـ دـ اـ اي (++) باستخدام تفاعل الفولجين. وأوضحت أن كل المسحات التي شخصت

علي أنها تحتوي خلايا الغدة الدرقية الطبيعية 34 (68%) و 2 (4%) من اللات اظهرن نمو غير نمطي لخلايا الغدة الدرقية أظهرت كثافة صبغية ضعيفة .

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