



**Sudan University Of Science and
Technology**

College Of Graduate Studies

**Ultrasonographic Characterization
Of Adenocarcinoma Of The Breast**

**توصيف أورام الثدي غير الحميدة
باستخدام جهاز الموجات فوق الصوتية**

**A Thesis Submitted In Partial
Fulfillment Of The
Requirements Of The Degree of
.M.Sc**

In Medical Diagnostic Ultrasound

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Dedication

To my Father & Mother soul

To

Whom always beside me

My lovely husband Mamoun

Lovely daughter Youmna.

Lovely son Mohammed

Acknowledgment

***I am extremely grateful to
My teachers who helped me
to acquire command over
written my research..dr.
alsafi ahmed abdell..a
&..dr: mohammed elfadil. My
brothers and sisters who
found memories always
guide me, my grateful
thanks to the radiation and
isotopes centre
specially ..afaf & siham***

***My husband mamoun and
daughter youmna and my
son mohammed, who left
me to my self while i was
preparing and proof
reading the research***

Abstract

The objective of this study to explain the characterization of adenocarcinoma of the breast by using ultrasound .ultrasound is a practically useful,widely available,cost-effective and non invasive diagnostic tool. Using of ultrasound for detecting malignant breast masses is useful in differentiating the nature of characteristics of adenocarcinoma of the breast against the ultrasound findings of inflammatory diseases and another benign tumors.

Retrospectively 31 patients reviewed ,the results: the outer upper quadrant casting the maximum ratio of malignant tumor, the solitary tumors casting the maximum ratio against the multiple masses, hypoechoic texture replacing the hyper,and mixed one in ultrasound appearance .in cross tabulation of tables which explain the relation ship between score and the other variables, sonography is useful in characterization of adenocarcinoma of the breast.

ملخص البحث

هدفت الدراسة ومن خلال المسح بالموجات فوق الصوتية لاورام الثدي غير الحميدة لتحديد ووصف طبيعة الورم مقارنة ببعض الاورام الحميدة التي تصيب الثدي و تظهر بذات المظهر او المظهر المقارب للورم غير الحميدكما فى الحالات الالتهابية , وذلك من خلال اخضاع فئة معينة من المرضى (31مريضا) للمسح فوق الصوتى, وكان من نتائج هذه الدراسة تمركز هذه الاورام الخبيثة فى الربع العلوى الجانبي ,والاورام ذات الطبيعة الاحادية,على الاورام متعددة الكتلة.كما وصفت طبيعة انعكاس درجة تباين الصورة نتيجة للتغذية الدموية العالية (الاحتواء على السوائل),وتمت ملاحظة سيادة الكتل المتكلسة ,على غير المتكلسة .والمصحوبة بظلال (نتيجة للتكلس)على التى لاظلم لها.المحتوية على سوائى ,على الصلبة.كذلك تفوق التعددية فى اصابة الثدي الايسر على الايمن.وبما ان الاستخدام الطبى للموجات فوق الصوتية عمليا متاح بصورة واسعة ,لسهولة الحصول على اجراء الفحص,مع التكلفة المنخفضة على الصعيد المادى,وعدم وجود اثار جانبية مترتبة على الفحص. اوصى باستخدام الموجات فوق الصوتية كوسيلة اساسية فى التشخيص ,والفعالية العالية فى المساهمة جزئيا فى صناعة القرار بالانتقال للفحص المناسب للبدء فى الخطة العلاجية.

List of abbreviations

U/s	Ultrasound
Hrt	Hormone replacement therapy
Mhz	Megahertz
Mri	Magnetic resonance imaging
Fna	Fine needle aspiration

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