



شبكة المعلومات الجامعية

بسم الله الرحمن الرحيم



شبكة المعلومات الجامعية
@ ASUNET



شبكة المعلومات الجامعية التوثيق الالكتروني والميكروفيلم



شبكة المعلومات الجامعية

جامعة عين شمس

التوثيق الالكتروني والميكروفيلم

قسم

نقسم بالله العظيم أن المادة التي تم توثيقها وتسجيلها
علي هذه الأفلام قد أعدت دون أية تغيرات



يجب أن

تحفظ هذه الأفلام بعيدا عن الغبار

في درجة حرارة من ١٥-٢٥ مئوية ورطوبة نسبية من ٢٠-٤٠%

To be Kept away from Dust in Dry Cool place of
15-25- c and relative humidity 20-40%

بعض الوثائق الأصلية تالفة

بالرسالة صفحات لم ترد بالاصل

MAGNETIC RESONANCE CHOLANGIOPANCREATOGRAPHY IN OBSTRUCTIVE JAUNDICE

٤٤٤٧٠٠

Essay

*Submitted in Partial Fulfillment for
Master Degree in Radiodiagnosis*

Presented By

TOHAMY HALEEM EL-KHOLY
(M.B., B.Ch.)

Supervised By

DR. TAMER AHMED KAMAL

Assis. Prof. of Radiodiagnosis
Benha Faculty of Medicine
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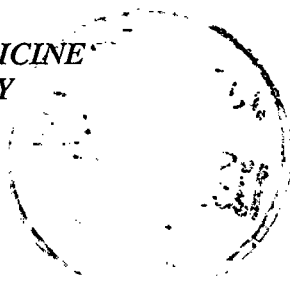
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Maadi Armed Forces Hospital

**BENHA FACULTY OF MEDICINE
ZAGAZIG UNIVERSITY**

1998



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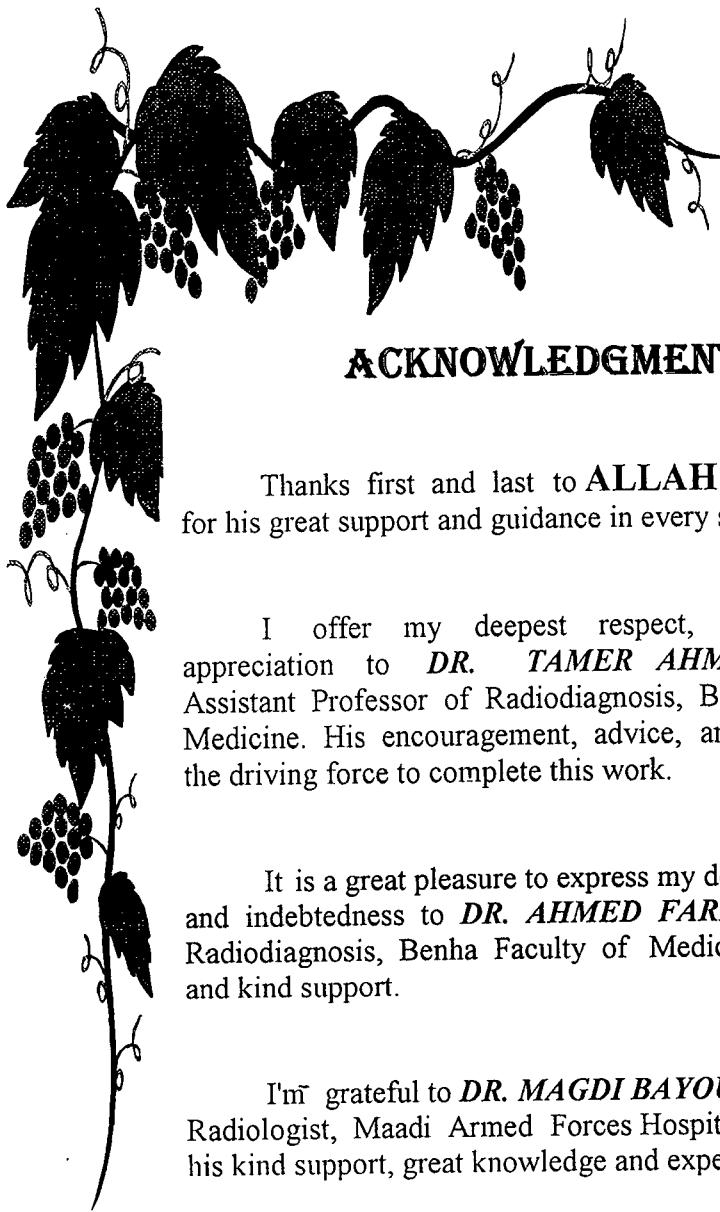
1998

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

﴿وعلمك ما لم تكن تعلم وكان
فضل الله عليك عظيما﴾

صدق الله العظيم

سورة النساء (آية: ١١٣)



ACKNOWLEDGMENT

Thanks first and last to **ALLAH** as we owe him for his great support and guidance in every step in our life.

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GOD BLESS THEM ALL



LIST OF ABBREVIATION

2D	Two dimensional imaging
3D	Three dimensional imaging
C.B.D	Common bile duct
C.C.K.	Cholecystokinin hormone.
CHD	Common hepatic duct
C.T.	Computed Tomography
ERCP	Endoscopic retrograde cholangiopancreatography
FSE	Fast spin echo
FSEIR	Fast spin echo inversion recovery (Fat suppression)
GB	Gall bladder
HASTE	Half-Fourier acquisition single shot turbo spin-echo
HCL	Hydrochloric acid
LLD	Left lateral decubitus
MIP	Maximal intensity projection.
MPR	Multiplanar reformation
MRCP	Magnetic Resonance Cholangiopancreatography
MRI	Magnetic Resonance Imaging
PBD	Percutaneous Biliary Drainage
PSC	Primary sclerosing cholangitis
PTC	Percutaneous transhepatic cholangiography
RARE	Rapid Acquisition with Relaxation Enhancement.
RF	Radio frequency pulse
RLD	Right lateral decubitus
RNCC	Radio nuclied cholescysto scintigraphy
SMA	Superior mesenteric artery
SSD	Shaded Surface display.
SSFP	Steady state of free precession
TR	Time of Repetition.
US	Ultrasound

