



شبكة المعلومات الجامعية

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ



شبكة المعلومات الجامعية
@ ASUNET



شبكة المعلومات الجامعية التوثيق الالكتروني والميكروفيلم



شبكة المعلومات الجامعية

جامعة عين شمس

التوثيق الالكتروني والميكرو فيلم

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

ROLE OF COLOR DOPPLER ULTRASONOGRAPHY IN CASES

OF PERIPHERAL ISCHAEMIA

B7700

Thesis

Submitted For Partial Fulfillment
Of M.Sc. Degree In Radiodiagnosis

Presented by:

Islam Mahmoud EL-Saffy

(M. B., B. CH.,)



Supervisors

Dr. Fathy Ahmed Tantawy

Prof. of Radiodiagnosis
Zagazig Faculty Of Medicine
Zagazig University

Dr. Ahmed Kamal EL-Dorry

Prof. Of Radiodiagnosis
Ain Shams Faculty of Medicine
Ain Shams University

Dr. Ahmed Farid Yossif

Assist. Prof. Of Radiodiagnosis
Benha Faculty of Medicine
Zagazig University

*Benha Faculty of Medicine
Zagazig University*

2000

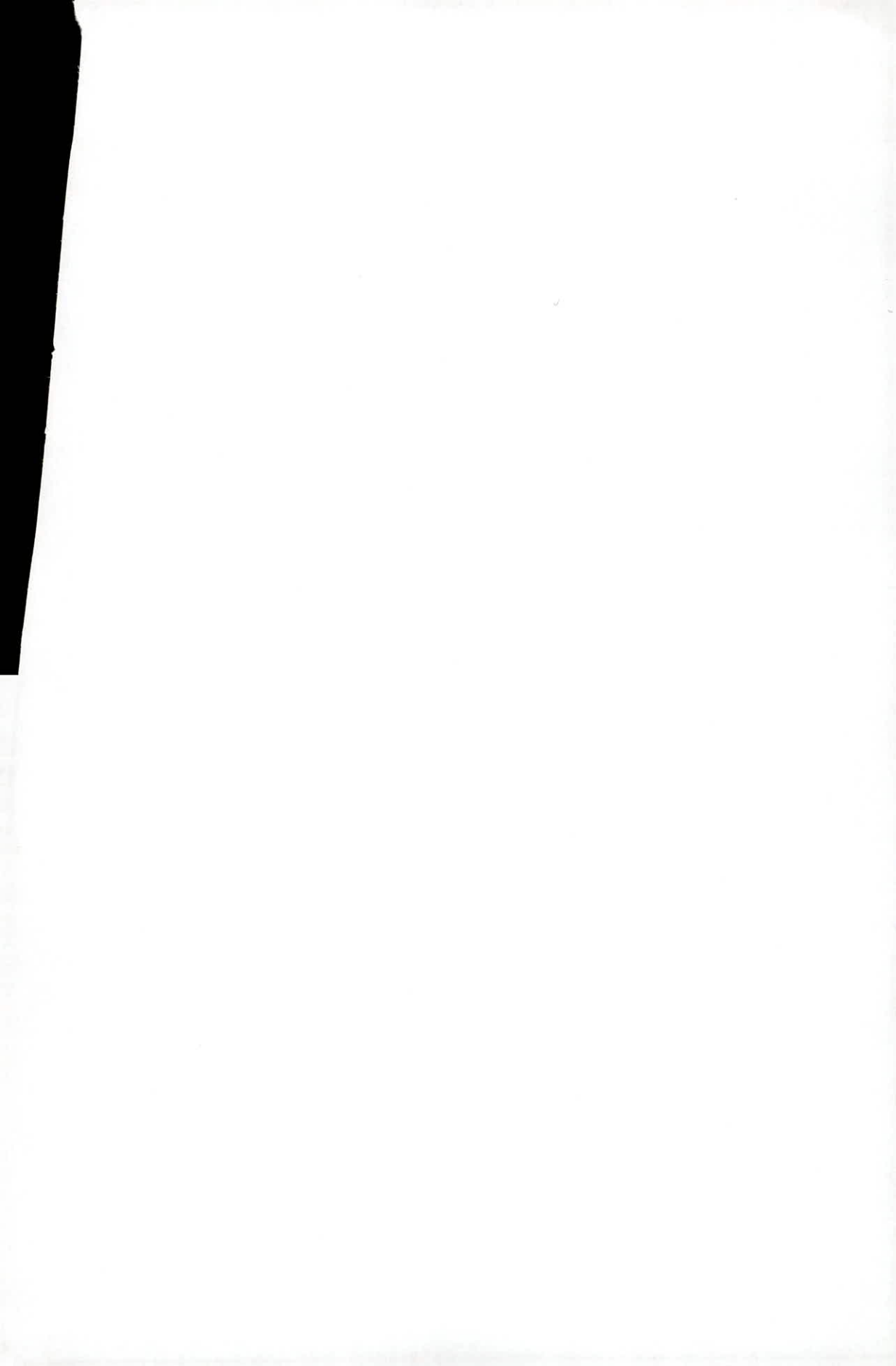


بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

قُلْ إِنَّمَا أَدْعِي إِلَىٰ بَيْتِ اللَّهِ وَبَيْتِ الْإِسْلَامِ وَبَيْتِ الْإِيمَانِ وَبَيْتِ الْإِخْوَانَةِ وَبَيْتِ الْوَدَاعَةِ وَبَيْتِ الْوَدَاعَةِ وَبَيْتِ الْوَدَاعَةِ (١٧٢)

إِلَّا إِلَهُهُمُ الْوَاحِدُ الْحَقُّ الْمُبِينُ (١٧٣)

الْحَقُّ الْمُبِينُ



Acknowledgment

1. First and foremost, I always feel indebted to ALLAH, the most kind and most Merciful, Who guided and helped me complete this work.
2. I would like to express my deepest gratitude and sincere appreciation to *Prof. Dr. Fathy Ahmed Tantawy* who suggest the idea of this work, for his guidance, constructive criticism and keen supervision. It has been a great pleasure for me to proceed with this work under his kind supervision. No word can fulfill the feeling of gratitude and respect I carry to him.
3. I owe too much to *Prof. Dr. Ahmed Kamal El-Dorry* and his team in the Interventional Radiology and Angiography unit – Radiodiagnosis Department - Ain Shams University Hospitals. Who put me on the way of understanding and practicing vascular Doppler examinations. Also, I would like to express my warmest thanks for their meticulous supervision, creative advices and patience that pushed me forward to catch the art of Doppler examinations and to present a good scientific work.
4. I would like to express my warmest thanks and deepest gratitude for *Prof. Dr. Ahmed Farid Yossif* for his great help, continuous encouragement and sincere advice.
5. Last but not least, I am also thankful to all my colleagues, and every one who contributed to this work and helped in its final accomplishment.

Islam Mahmoud El-Saffy



Contents

	<i>page</i>
* INTRODUCTION AND AIM OF THE WORK	1
* REVIEW OF LITERATURE.	
* Anatomy of Arterial System of the Upper Limb.	2
* Anatomy of Arterial System of the Lower Limb.	9
* Pathological Consideration of Common Occlusive Arterial Vascular Diseases of the Peripheral Limbs.	23
* Doppler Ultrasound Principles and Instruments.	33
* Color Duplex Ultrasonography in Normal and in Different pathological Arterial lesions.	60
* PATIENTS AND METHODS.	84
* RESULTS.	98
* ILLUSTRATIVE CASES.	112
* DISCUSSION.	124
* SUMMARY AND CONCLUSION	132
* REFERENCES.	135
* ARABIC SUMMARY.	---

LIST OF DIAGRAMS

<i>No</i>	<i>Title</i>	<i>Page</i>
1	Doppler effect caused by a moving receiver.	36
2	Doppler effect caused by a moving source.	36
3	Doppler effect caused by a moving reflector.	37
4	Systolic acceleration and systolic acceleration rate.	73
5	Parameters of circulatory resistance.	75

