

Contents

<i>Subject</i>	<i>page</i>
<i>Introduction</i>	1
<i>Aim of the work</i>	3
<i>Review of literature</i>	4
<i>Diabetic Retinopathy</i>	4
I) Definition	4
II) Epidemiology	4
III) Risk factors	5
IV) Vitreo-retinal pathological changes in diabetic retinopathy :	9
<i>Diagnostic Ophthalmic Ultrasonography</i>	21
I) Physics and instrumentation	21
II) Display Modes	29
• A-Scan	29
• Standardized A-scan	29
• B-scan	30
• High - resolution B scan	32
• Standardized echography	32
• Three dimensional imaging	32
• Doppler ultrasound	32
• Duplex scanning and colour flow imaging	33
III) Examination of the eye with US	34
A) Ocular screening with B- scan ultrasound	35

IV) Echography in Diabetic Retinopathy	48
<i>Patients and methods</i>	56
<i>Results:</i>	62
A) personal and disease characteristics of patients with DR	62
B) vitreous finding of patients with DR by clinical and echographic examination	64
C) retinal finding of patients with DR by clinical and echographic examination	68
<i>Discussion</i>	83
<i>Summary</i>	96
<i>Conclusion</i>	99
<i>References</i>	101
<i>Arabic Summary</i>	120