100-200 MHz ultrasound biomicroscope

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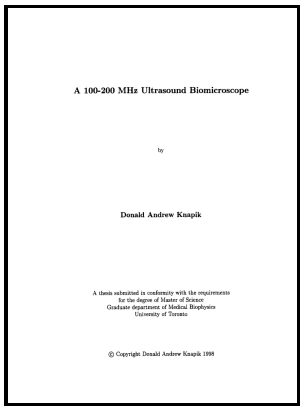
A 100-200 MHz Ultrasound Biomicroscope

by

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A thesis submitted in conformity with the requirements
for the degree of Master of Science
Graduate department of Medical Biophysics
University of Toronto

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Description: -
-100-200 MHz ultrasound biomicroscope
-
Canadian theses = -- Thèses canadiennes100-200 MHz ultrasound biomicroscope
Notes: Thesis (M.Sc.) -- University of Toronto, 1998.
This edition was published in 1998

Filesize: 38.110 MB

Tags: #Clinical #use #of #ultrasound #biomicroscopy

Advances in ultrasound biomicroscopy

Incidence of acute angle-closure glaucoma after pharmacologic mydriasis.

Ophthalmologic Ultrasounds

An eye cup, filled with the methyl cellulose, can be held over parts of the ocular adnexa, such as over a closed eye for examination of the lids, when structures external to the globe are examined.

20 MHz Forward

The present study has limitations. The single-element transducer can be rotated, and gear-interlinked, relative to the VARS structure.

Comparison of Internal Anterior Chamber Diameter Imaging Modalities: 35

The resulting VARS image made possible the delineation and identification of the structures of the anterior segment cornea, sclera, ciliary body, and iris , as shown in.

Ophthalmologic Ultrasounds

The shallow angle of the anterior chamber without iris bombe indicates that the angle closure has temporarily broken. The most important underpinning technologies include transducers, beam forming, pulse compression, tissue harmonic imaging, contrast agents, techniques for measuring blood flow and tissue motion, and three-dimensional imaging.

Ophthalmologic Ultrasounds

The anterior segment cannot be imaged well by 3-D ultrasonography.

ShieldSquare

Because many patients with uveitis have severe media opacity that impairs the clinician's ability to examine these structures clinically, UBM can allow assessment of inflammatory lesions not otherwise visible. In the design of this device, a single-element 20 MHz PMN-PT press-focused angled-face transducer is focused on the circle of midpoints of a micro-machined VARS within the distal end of an endoscope.

Advances in ultrasound biomicroscopy

Resolution is the ability of the eye to distinguish between objects. The thickness of the iris and size of the ciliary body of primary congenital glaucoma are significantly smaller than those of a normal control group. Analysis and interpretation of images begins with identification of the scleral spur, a protrusion of the sclera into the anterior chamber that attaches anteriorly to the trabecular meshwork.

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