



Aviso, Ultrasound Platform

Case presentation with the new 10 MHz B-scan probe

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The ultrasound examination is performed on a 54 year old female patient followed up since 2010 for a suspect choroidal nevus. With a visual acuity varying from 3 to 5/10 in far vision and Pa3 to 6 in close vision during the follow-up visits carried out every 3 to 6 months for three years, a risk of macular degeneration is also highly suspected.

We evaluated the image quality of the scan made with the new generation of 10 MHz B probe. This new probe shows a higher resolution image allowing zooming in with no loss of resolution. The small mass lesion of lenticular shape is very low reflective and, even while the exam is performed through the lid, the choroidal excavation can be seen more easily with this new B probe. When performed with the 20 MHz probe (in contact with the conjunctiva), the scan allows for an improved analysis of the structure. The borders of each structure are better defined.

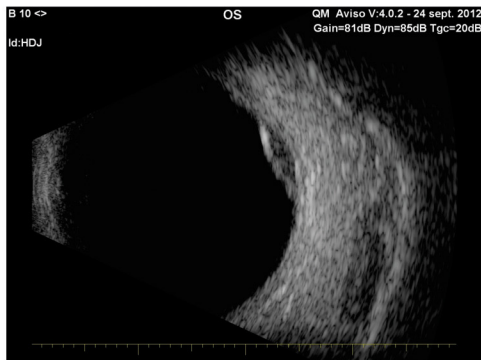


Figure 1: 10 MHz probe, previous generation



Figure 2: 10 MHz probe, new generation - Longitudinal scan

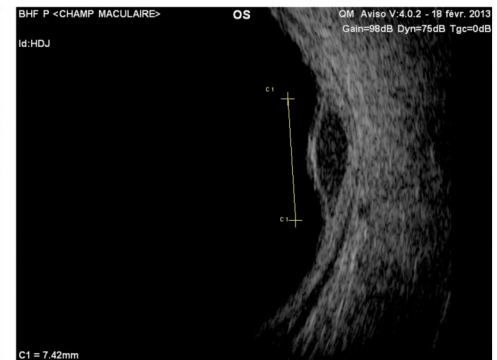


Figure 3: 20 MHz probe - Temporal transverse scan

Conclusion:

This new generation of probe brings extra resolution to the image quality both laterally and axially. It allows for a better analysis, more precise measurement and more accurate follow-up of the ocular wall lesions.

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