

World Congress on

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## Pediatric ophthalmology and Ultrasound Biomicroscopy (UBM): A world to discover

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Ophthalmological evaluation in children is very difficult when they present an ocular pathology such as: Corneal opacity, dysgenesis of the anterior segment, among others. Ultrasound imaging is valuable in eyes with opaque media to detect pathological changes of the posterior segment, but ultrasound biomicroscopy has been used widely to analyze corneal disease, cysts and tumors of the eye, lens implants and cataracts. This study allows the ophthalmologist and the surgeon to make the best decision and obtain an accurate diagnosis, obtaining direct visualization of the anterior segment. Ultrasound Biomicroscopy (UBM) is high frequency, 20 and 50 Mhz, ultrasound that penetrates 5-6 mm and has a resolution of 25 microns. UBM requires contact with the eye via a water bath or a clear shield interface, UBM can be used in infants under sedation with oral Chloral hydrate and what clinically, useful information it can provide UBM can be especially useful when corneal opacification limits direct visualization of anterior segment structures. This technique can be used to assess the need for additional procedures prior to corneal transplantation, including cataract extraction, intraocular lens implantation, iris reconstruction, a glaucoma procedure. The potential and usefulness of the UBM was demonstrated as an accurate diagnostic procedure in ocular pathology with transparent and non-transparent media in children, diagnosing: Corneal diseases, dysgenesis of the anterior segment, cyst, tumors, plateau iris configuration, plateau iris syndrome, vitreous bands and/or traction affecting the anterior segment including the ciliary body, pars plana and peripheral retina.

### Biography

Vicuna C Jessie Lin is the Founder of the Society of Ocular Echography in Venezuela. She is the Ophthalmologist and Specialist in Cornea, Anterior Segment, Ocular Trauma and Ocular Sonography in National Institute of Ophthalmology.

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