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Eye rehabilitation in patients with microphthalmia

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This is the case of female 10 month-old patient, who is brought by her parents for consultation after she had been diagnosed left microphthalmia at birth in Teodoro Shestakof Hospital, in San Rafael, Mendoza. The baby girl were not under any kind of treatment in her first months of life, so I started rehabilitation of the orbit cavity when I received her. In the first meeting parents bring TAC report: no bone alterations in either orbit structure. Microphthalmia with slight deformation of left eye globe, maximum transversal diameter of eye globe 12 mm and 9 mm anteroposterior. Extrinsic musculature and optical nerve impress by this method of normal characteristics, without retrobulbar lesions. Optical ducts, preserved. In addition to Magnetic Resonance, it is reported to observe reduction of volume of the left eyeball with alteration of its signal intensity, resulting in Ptisis bulbi. In the anamnesis the cavity is underdeveloped, with conjunctival sac and narrow palpebral groove due to the lack of stimulation for the development and growth of these structures. Considering the size and deformation of the orbital cavity, rehabilitation started, using visualization technique and molding the first wax shaper, of 18mm as the largest horizontal diameter and 12 mm the vertical largest one. Then the first medical device was made with thermo-curable polymer and it was placed in the patient for one week in the first control there was good acceptance, passing to a progressive increase of 2mm in both diameters, vertical and horizontal, every 15 days, checking the tissue expansion and tolerance to change in each control. After the forth change of shape, the patient interrupted controls for 60 days and stop using the shaper due to the fact that because of lack of bigger size and child's friction the shaper had been ejected. When the patient attended a new control, the problem was the last shaper couldn't be used as the cavity had retracted, thus being as in the situation of the second shaper of the treatment, observing a regression in the tissue rehab. Then parents realized the importance of the continuity of the treatment and the commitment needed so as to have good results. Today, a year later, the patient is wearing a customized prosthetic eye, with stable cavity and considerable facial symmetry with his age and a new control in a year's time.

Biography

Andrea Lorena Bergon is presently an optician at Berprot Centro Optico in Argentina. She is a Specialist in Contact Lenses and as well as an Ocularist. She Graduated at the Universidad de Morón, School of Natural, Chemistry and Exact Sciences- Buenos Aires, Argentina. With degree as: Technical Optician. Postgrade in Specialization in Contact Lenses. Specialist in the fabrication of prosthetic eye. Technical director in Berprot Optical Center.

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