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JUMAT Orbital Implant

JUMAT orbital implant was created considering the good qualities of previous implants and improving their flaws. To start the fabrication I looked for material that was easy to get in the market and with low cost. JUMAT is made with hypoallergenic high-density polymethylmethacrylate. It is made in different sizes, from 10 mm to 22 mm. This is really helpful for the surgeon as he counts with different sizes at the operation room and can select on site the most suitable one. This is essential for the successful adaptation of the implant. JUMAT Orbital implant has multiple perforations of different diameters, being the principal one, the one that marks the implant axis and crosses it completely. This perforation has larger diameter in the back area and smaller in the front one. All other perforations connect with the principal one and interconnect among themselves too. This system of perforations is essential to foster an excellent vascularization. Within ten days of surgery the patient is ready to start with the testing for the adaptation of a ocular prosthesis. As from 2010 to present time, 235 JUMAT implants have been implanted with only two expulsions reported. These cases were studied in detail. It was observed that both cases involved children with retinoblastoma. They were enucleated and were implanted with JUMAT. These two children were derived to Garrahan Hospital in Buenos Aires, leading Pediatric school hospital in Argentina. They were under radiotherapy and chemotherapy. These two processes avoided tissue vascularization by necropsy, which determined the expulsion of the implant. JUMAT stands out for the material made of, low cost, various implant dimensions, surgeon possibility to choose exact measure during operation and short time of vascularization and ocular prosthesis adaptation.

Speaker Biography

Optician, University of Buenos Aires, Argentina. Specialist in Contact Lenses. Specialist and manufacturer of ocular prosthesis. Scientific adviser for ocular prosthesis in APO (Asociación Profesional de Optómetras in Argentina). Precursor and creator of multiperforated orbital implant, JUMAT. Precursor and creator of expander orbit asmotic hydrogel filling for microophthalmia. Developer of one-hour customized ocular prosthesis method, unique in Latinamerica. Precursor and creator of the first prosthetic scleral lens. Precursor and developer of ocular prosthesis with magnifying glass for microophthalmia. Director of CEPROC (Centro de Prótesis Oculares y Contactología especializada), Mendoza, Argentina.

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