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## Sutureless strabismus surgery: Experimental and human studies

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The use of tissue adhesives in strabismus surgery is known for more than 40 years. However, few reports have been published and most of them were experimental. All techniques described the use of tissue adhesives to weaken an extra ocular muscle either by recessing it or to apply a suture less fadenoperation. To our best knowledge, no study applied tissue adhesives to strengthen an extra ocular muscle. Our research showed that the use of ISO-Amyl-2-Cyanoacrylate is considered one of the least harmful and effective tissue adhesive in strabismus surgery. A comparative histologic studies of strabismus surgery with and without sutures using the ordinary and electron microscopes were carried. Our surgical techniques to weaken or strengthen an extra ocular muscle are shown in our presentation.

### Recent Publications

1. Duffy M T et. al Strabismus surgery: Scaffold-enhanced 2-Octyl Cyanoacrylate adhesive versus sutures. ARVO(2749,B588)2003.
2. Mulet et. al (2006) Adal-1 bioadhesive for sutureless recession muscle surgery: a clinical trial. Br. J. Ophthalmology. 90(2):208-212.
3. Scott A B ,Collins C C, O'Meara DM Extra ocular muscle forces in strabismus. Proceedings of the 1st Congress of International Strabismological Association,1971;Saint Louis, MO .St Louis: CV Mosby:1971:125-136.
4. Toneli E Jr,Celestino H A, Bambera E A (2004) Tissue adhesives for a suture less fadenoperation. an experimental study in rabbit model. Investigative Ophthalmology and Visual Science. 45(12):4340-4345.
5. Woodward S C, Herman J B, Cameron J L, Brandes G, Pulaski E, Leonard F (1965) Histotoxicity of cyanoacrylate tissue adhesive in the rat .Ann Surg.162(1):113-122.

### Biography

Mahmoud AlyRageh completed his MSc Ophthalmology from Cairo University in 1983. He was a Fellow at Hugonier Center Lyon University, France in 1984. He completed his MD degree in Ophthalmology from Cairo University in 1992. He has published more than 20 articles in different scientific journals. He has supervised many theses for the fulfillment of the MSc and MD degrees. He is a former Head of Pediatric Ophthalmology Unit at the Research Institute Of Ophthalmology, Cairo-Egypt. He is the Editorial Board Member at *EC Ophthalmology Journal*. He is Chairman of the Board and the Head of Pediatric Ophthalmology Department at Al Ain Eye Center, Cairo, Egypt (Private Sector). He is a Visitor Consultant for the management of Strabismus and Nystagmus cases at Dar Al Shifa Hospital, Kuwait City since 14 years.

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