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ARTICLE

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Long-term complications of the MAI hydrogel intrascleral buckling implant

J. F. Marin, F. I. Tolentino, M. F. Refojo and C. L. Schepens
Eye Research Institute, Boston, MA 02114.

Seven cases in which long-term complications developed from swelling of the MAI hydrogel intrascleral buckling implant are reported herein. Micro-Fourier transform infrared spectroscopic analysis of two recovered implants demonstrated the occurrence of chemical changes leading to increased swelling. Clinical problems with the implants appeared 7 to 11 years after surgery, suggesting the need for periodic, long-term follow-up. It is possible that the present-day MIRAgel implant, which has the same composition as the MAI implant, may require similar precautions.

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Roldan-Pallares et al.
Arch Ophthalmol 2007;125:511-514.
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Hydrated scleral buckle: a late complication of MAI explants

Bhagat et al.
Br. J. Ophthalmol. 2005;89:1380-1380.
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New onset diplopia: 14 years after retinal detachment surgery with a hydrogel scleral buckle

Leibovitch et al.
Br. J. Ophthalmol. 2005;89:640-640.
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Complications of Miragel: Pseudotumor

Braunstein and Winnick
Arch Ophthalmol 2002;120:228-229.
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Imaging of Hydrogel Episcleral Buckle Fragmentation as a Late Complication After Retinal Reattachment Surgery

Lane et al.
Am. J. Neuroradiol. 2001;22:1199-1202.
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Long-term Complications of Silicone and Hydrogel Explants in Retinal Reattachment Surgery

Roldan-Pallares et al.
Arch Ophthalmol 1999;117:197-201.
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