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**Accommodation of an Endocapsular Silicone Lens (Phaco-Ersatz)
in the Nonhuman Primate**

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Abstract: In owl monkeys, as a model of endocapsular cataract extraction, the lens material was removed through a small hole in the capsule and was replaced with a silicone polymeric gel. The ability of this endocapsular implant (Phaco-Ersatz) to accommodate was documented when pilocarpine produced an increase in the curvature of the lens surface and a decrease in the anterior chamber depth, just as occurs with the untouched natural lens. Refinements of the surgical technique are required to achieve a controlled degree of filling of the capsular bag and inhibit postoperative epithelial proliferation on the inner capsular surface. [Key words: accommodation, artificial implant, cataract surgery, cholinergic stimulation, endocapsular phacoemulsification, nonhuman primate, pachymetry, Schleimpflug photography, silicone polymer lens.] Ophthalmology 94:471-477, 1987