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## Use of femtosecond laser in cataract surgery

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Cataract is the leading cause of blindness worldwide, and cataract surgery is one of the most common surgical procedures. In developed country settings, cataract surgery is most commonly performed by phacoemulsification (PE). Recently, a new procedure, Femtosecond-laser-assisted cataract surgery (FLACS), has been introduced in which a laser is used to perform certain important steps of cataract surgery. There is the potential for FLACS to reduce complications of cataract surgery, in particular as they relate to corneal endothelial damage and wound architecture. The former is associated with pseudophakic bullous keratopathy (PBK), a complication of cataract surgery in which corneal endothelial cells are lost. An improvement in wound architecture may reduce the rate of post-operative endophthalmitis (POE) and wound leaks. However, actual clinical benefits from use of FLACS have not been documented in controlled studies. Further, the outcome of FLACS has not been studied in an objective and methodical way. Such studies are particularly required given the substantial increase in operative time and expense associated with FLACS. In this talk, we will objectively assess the major studies that have been published to date addressing FLACS.

### Biography

Yassine J. Daoud specializes in cataract and refractive surgery, as well as the diagnosis and treatment of corneal disorders including Fuchs dystrophy and keratoconus. Daoud received his M.D. degree from Harvard Medical School and completed an internship at Johns Hopkins Hospital where he was the recipient of the "Best Bedside Skills" Teamwork Award. His ophthalmology residency was completed at Duke University Eye Center and he completed his cornea fellowship at the Wilmer Eye Institute. In addition to his commitment to excellent patient care, Daoud is a published author in multiple ophthalmology journals and is involved in research to improve ocular health.

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