

Phacoemulsification New Technology And Clinical Application

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Phacoemulsification New Technology And Clinical

Data for NeoSoniX came from a prospective evaluation of phacoemulsification in 25 eyes performed at the Oregon Eye Surgery Center. The development of new technology has allowed safer, more efficient phacoemulsification. Each surgeon should evaluate new developments to achieve the greatest possible benefit for patients.

New phacoemulsification technologies : Journal of Cataract ...

ISBN: 1556422733 9781556422737: OCLC Number: 33043927: Description: 180 pages : color illustrations ; 26 cm: Contents: Ch. 1. History of Phacoemulsification / Charles D. Kelman --Ch. 2.Alcon SERIES 20000 LEGACY Phacoemulsification System / I. Howard Fine --Ch. 3.Phacoemulsification with the Allergan Medical Optics Prestige Phacoemulsification Unit / Roger F. Steinert --Ch. 4.

Phacoemulsification : new technology and clinical ...

The main objectives of modern phacoemulsification (phaco) technology are the reduction of ultrasound (US) power and improved efficiency.1 Interrupted phaco modes, improved pump systems, chopping...

New phacoemulsification technology | Request PDF

Purpose: To evaluate the clinical outcomes of new phacoemulsification technology. Setting: Oregon Eye Institute, Eugene, Oregon, USA. Methods: After optimization of surgical parameters, patients were randomly assigned to cataract extraction with 1 of 4 phacoemulsification machines using new technology available within the past 1 to 2 years. Outcomes were compared with previously published results for these same machines obtained before the advent of the new technology.

Power modulations in new phacoemulsification technology ...

Definition: Phacoemulsification is the most common cataract surgery technique performed. Cataract surgery is used to restore vision in patients whose vision has become cloudy from cataracts, a clouding of the eye's lens. The lens is located behind the iris. It is responsible for focusing light on the retina, and for producing clear, sharp images.

Phacoemulsification - Cataract Surgery

Continual advances in phacoemulsification technology and adjunctive surgical devices allow cataract surgery to be performed more safely and efficiently. © 2005 Lippincott Williams & Wilkins, Inc. Source: New phacoemulsification technology. Current Opinion in Ophthalmology16 (1):38-43, February 2005. Full-Size.

New phacoemulsification technology : Current Opinion in ...

PURPOSE OF REVIEW: Femtosecond laser-assisted cataract surgery (FLACS) has gained popularity in recent years with the new technology suggesting potential improvements in clinical and safety outcomes over conventional phacoemulsification cataract surgery (PCS).

Femtosecond laser-assisted versus phacoemulsification for ...

The mainstay of this surgery, phacoemulsification of the lens using the “phaco” machine can be approached by many different methods. We outline the commonly taught divide and conquer technique which most starting surgeons learn. Instrumentation. Instrumentation is varied among surgeons, with many newer technologies emerging.

Phacoemulsification » Department of Ophthalmology Academic ...

Traditional longitudinal phaco used a jackhammer-like in and out motion for phacoemulsification. Bioengineers eventually realized that half the energy used in traditional longitudinal motion is wasted because material is only broken up when the tip moves forward. ... “What we all agree on is that new technology is changing clinical outcomes ...

Longitudinal versus torsional phaco | Ophthalmology Times

Highlights include new product launches in phacoemulsification, visualization for the Cataract Refractive Suite and innovations in intraoperative aberrometry and AT-IOLs. Onsite events for surgeons demonstrate Alcon’s continued commitment to world-class training, education. Geneva, May 1, 2019 - Alcon, the global leader in eye care dedicated to helping people see brilliantly, will feature new clinical data along with innovative product designs and technologyfor the Cataract Refractive ...

Alcon to Showcase New Clinical Data, Innovative Technology ...

Power modulations in new phacoemulsification technology: Improved outcomes I. Howard Fine, MD, Mark Packer, MD, Richard S. Hoffman, MD Purpose: To evaluate the clinical outcomes of new phacoemulsification technology. Setting: Oregon Eye Institute, Eugene, Oregon, USA. Methods: After optimization of surgical parameters, patients were randomly as-

Power modulations in new phacoemulsification technology ...

A surgeon from Pennsylvania lists what he likes about the technology: “Lower phaco energy, great astigmatism correction (especially with-the-rule) and a good patient experience,” he says. An ophthalmologist from Louisiana agrees, saying, “Femto is safer, creates a more precise capsulotomy and allows the management of mild astigmatism.

Cataract Surgeons Eye New Techniques

While FLACS does not provide an additional clinical benefit for patients over phacoemulsification cataract surgery today and was not found to be a cost-effective strategy in our trial, it is fair to acknowledge that this technology is still in its infancy and some perspective exists.

Femtosecond lasers and phacoemulsification go head to head ...

• Advances to existing technologies such as femtosecond laser platforms and phacoemulsification machines along with new technologies improve surgeons’ ability to carry out each step of the cataract surgery procedure with a high degree of accuracy and precision while reducing risk.

EyeWorld | A storm of innovation How technology improves ...

One of the most fascinating developments in the history of cataract surgery is the Kelman technique of reducing a cataract to minute particles by ultrasonic vibration and aspirating them by controlled suction. The verdict of history is yet to be passed on this technique, but the ingenuity and...

Phacoemulsification and Aspiration: The Kelman Technique ...

J Cataract Refract Surg 1987; 13:70-75 2. Neumann AC, Molyet E, Teal C, McCarty G. Phacoemulsification devices: a consumer's update. J Cataract Refract Surg 1987; 13:669-677 3. Fine IH. Alcon Series 20000 Legacy Phacoemulsification System. In: Fine IH, ed, Phacoemulsification: New Technology and Clinical Application.

Clinical comparison of the Alcon 20,000 Legacy and 10,000 ...

Dr. Lional Raj Daniel Raj Ponniah describes a case in which pigment dispersion was observed after uneventful microphacoemulsification. When irrigation, aspiration and IOL washing did not work, the surgeons decided to remove the IOL and insert a new hydrophobic lens.

Pigment Dispersion after Phacoemulsification - American ...

His main research interests lie in visual optics, wavefront science, IOL power calculations, and corneal modeling. He also has a keen interest in the design and refinement of new phacoemulsification technologies. His research has been published in leading peer-reviewed ophthalmology journals.

Surgical webinar series - ZEISS Medical Technology | ZEISS ...

RESIDENTS UCLA residents review Intraocular pressure study using Centurion phacoemulsification technology by Mitra Nejad, MD, Jenny Chen, MD, and Wonchon Lin, MD Uday Devgan, MD, chief of ophthalmology, Olive View UCLA Medical Center, and clinical professor of ophthalmology, Jules Stein Eye Institute at UCLA Active fluidic control of IOP is a recent innovation in phaco

EyeWorld | UCLA residents review

Clinical researchers often site improved patient recruitment, engagement and inclusion as a goal in their work. A new clinical trial solutions firm aims to help hit those targets with technology designed to better bring in the patient thought process and include their voice.