

Latest Plasma Technology in Ophthalmology - Literated Market Research

The development of new ophthalmic tools has recently been made possible by the unique characteristics of plasma

BANGALORE, INDIA, November 12, 2015 /EINPresswire.com/ -- New frontiers in many areas of modern living have been opened up with the development of plasma whose unique characteristics have identified it as the fourth state of matter—after solid, liquid and gas.

The development of new ophthalmic tools has recently been made possible by the unique characteristics of plasma.



Ophthalmology
Market
LITERATED
ONE STOP MARKET RESEARCH PLACE
Ophthalmology Market

Depending on the purpose of the device, medical devices may be designed to produce either thermal or non-thermal plasma. Depending on the nature of the plasma being generated, it can serve to act as a blade when plasma comes into contact with tissue or to kill bacteria without causing structural tissue damage. It can also trigger apoptosis in cancer cells without harming healthy cells.

One of the plasma based technologies that is used in ophthalmology is the Fugo plasma blade which is a portable, battery-powered, solid-state system that uses C-cell batteries. The device focuses the energy on a blunt hair-thin ablation or cutting filament after it conditions the energy in a portable, solid-state console. A controllable and visible plasma column is produced by the energy field. This plasma blade allows pristine, clean incision walls based on nanotechnology stripping of tissue molecules, thereby eliminating the charring or incision wall damage seen in most other standard electrosurgical systems. Apart from this it kills any microbes in the incision path.

This blade is used in ophthalmologic processes like capsulotomy for cataract surgery and has allowed ophthalmologists to provide a unique ability to manage difficult cases, as well as an ability to surgically manage capsular tears. No postoperative graft decompensation has been reported in more than 10 years as the plasma blade capsulotomy can be performed beneath a penetrating keratoplasty graft.

Placing of an ablation filament tip under the iris and then slowly ablating a 360° capsulotomy, after which the nucleus is impaled and pulled into the pupil with the phaco tip which can help patients with intraoperative floppy iris syndrome and their conditions can thus easily be managed. All the while the surgeon's second hand is injecting viscoelastic material behind the nucleus.

Other plasma based ophthalmologic surgeries that are helped by the plasma blade are iridotomy, pupiloplasty and the transciliary filtration procedure.

For more market research reports on Ophthalmology Market visit
<https://literated.com/industry/Ophthalmology/>

About Literated.com

Literated.com is a one stop market research and e-commerce platform catering to the needs of businesses and knowledge workers who are dependent on market research information for their work.

Visit <https://literated.com> for more info.

Sachidanand Bhat

Literated.com

8971520970

email us here

This press release can be viewed online at: <http://www.einpresswire.com>

Disclaimer: If you have any questions regarding information in this press release please contact the company listed in the press release. Please do not contact EIN Presswire. We will be unable to assist you with your inquiry. EIN Presswire disclaims any content contained in these releases.

© 1995-2015 IPD Group, Inc. All Right Reserved.