

The Gas Ionization by Plasma Technology for Noninvasive Techniques in Oculoplastic



Tsioumas G Sotiris^{1*}, Georgiadis Nikolaos² and Georgiadou Irini³

¹University of Camerino, Greece

²Department of Ophthalmology, Aristotle University of Thessaloniki, Greece

³Department of Aesthetic Medicine, Aristotle University of Thessaloniki, Greece

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***Corresponding author:** Tsioumas G Sotiris, Private Clinic, Diagnostic Clinic and Aesthetic Surgery Ophthalmology, Eye surgeon-Oculoplastic, President of Hellenic Society of Aesthetic Medicine and Non Invasive Surgery, Professor of University of Camerino for Aesthetic Medicine, Greece, Email: ophthalmoplastiki99@hotmail.com

Abstract

Purpose: The objective of the research is to highlight the new non-invasive techniques there are in oculoplastic using plasma technology (4th stage of matters, gas ionization) aimed at resolving multiple eyesores problems in the ophthalmic area. We will talk about how through new techniques in oculoplastic we can solve problems like, xanthelasma, Hemangiomas, eyelid cysts, ektropion, entropion, scars, syringomas, papillomas, benign tumors, chalazion and benign tumors in difficult areas such as gray line.

Method: The methodology that is followed to solve the above-mentioned cases is the use of Plasma Exeresis using PLEXR machine. After first diagnosis and analysis in each region, we proceed to address and resolve the musing the Plasma Exeresis. The techniques of Plasma Exeresis are either spot by spot or spray method, depending on the case. There is no use of searing iron, the area is not cauterized but sublimated without complications, without scarring, and without affecting the optic nerve.

Results: Complete resolution of problem areas from the first session without the phenomena of recurrence. In case such as ektropion and entropion resolve can occur after 2-3 sessions.

Conclusion: In the past the solution to such problems requires surgical rooms, microscopes, stitches, and long period of recuperation. Now not only the patient can bloodlessly, more economically, without surgery and rehabilitation to get rid of these specific problems but also the doctor to perform all these methods, without complications in his clinic.

Introduction

In 2017, due to the fact that the advancements in the medical industry are changing rapidly, the need for direct and non-painful solutions to problems patients is increasing. The Exeresis Plasma method comes to cover this need because the use of it becomes necessary at the Oculoplastic and at the ophthalmology field. Now the doctor can proposing outright solutions to the patient without mentioning the word surgery thus eliminate the fear of the patient for the surgery. Our aim is to show the new bloodless techniques in oculoplastic that their effectiveness equals that of surgery but without the complications and discomfort that may occur from a surgery [1-3].

Diagnosis

We examined and studied 347 patients who were experiencing problems as xanthelasma (38), hemangiomas (4), eyelid cysts (20), entropion (2) ektropion (10), syringomas (100), papillomas (100) benign nodules (45), chalazion (8) and

benign tumors in difficult areas such as the gray line (20). The age range is from 25-78 years of age, smoking and non-smoking men and women. All incidents had as common fact the fear of surgery that is why the suggestive method was with Plasma Exeresis [3-6] (Figure 1).

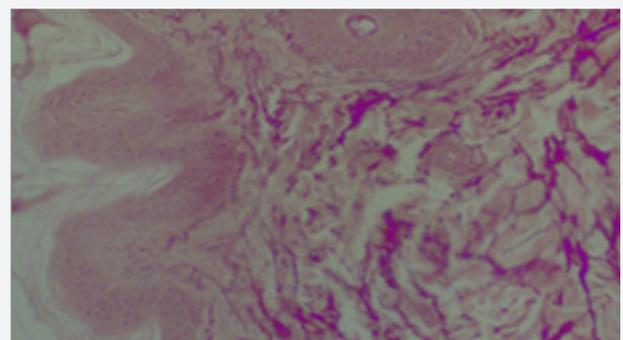


Figure 1

Method

All patients accepted antisepsis in the areas that we would apply the Exeresis Plasma method. Then in all cases, except from those of ektropion, entropion, chalazion and benign tumors in the gray line, we applied numbing cream for 30 minutes. After the 30 minutes we removed the cream and started the process. The area was anesthetized and the patient did not felt anything during the treatment. In cases of ektropion, entropion, chalazion and benign tumors in the gray line, applied numbing injection with xylocaine [6-9].

Once anesthetized the area either with anesthetic cream or anesthetic injection we started implementing Plasma Exeresis. For implementing the method we used Plexr machine which has three pistols with different intensity. Those pistols do not use electric power and they are not connected with cables. Depending on the site and the problem, we use the corresponding pistol. Sublimation methods are 2. Spot by spot method or Spray Method. All cases were treated with the two methods either separately or in combination [10,11] (Figure 2).

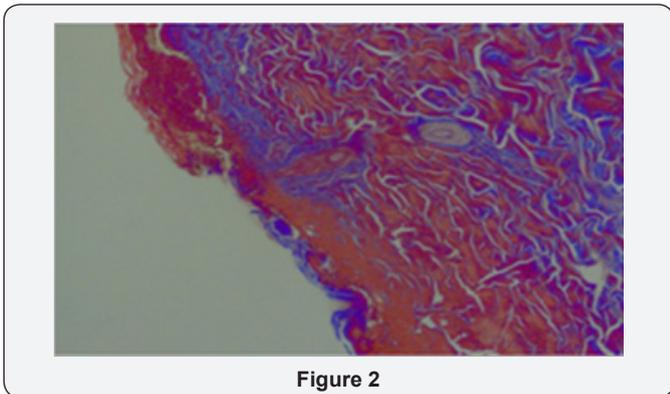


Figure 2

Analysis

- A. Xanthelasma: Spray Method
- B. Hemangiomas: Spot by spot method
- C. Cysts: depending on the shape and size of the cyst, combination of 2 methods.
- D. Ektropion-Entropion : Spot by spot with specific direction
- E. Scars: Combination of 2 techniques depending on the scar
- F. Syrrigkoma: Spot by spot Method
- G. Papillomas: depending on the size either Spray Method or Spot by Spot Method
- H. Benign Tumors: Spot by spot around the tumor to anesthetize the area and then Spray method to sublimate the tumor
- I. Chalazio: If it's in the gray line follow the spray method,

if it is in tarsus use the spray method and the spot by spot method combined

- J. Benign tumors at the gray line: Spray Method

Results

The result in all cases is the complete sublimation of the problems from the first session, without scarring, sutures, and long recovery periods. In cases of ectropion and entropion we may need a second session depending on the degree of ectropion / entropion (2nd or 3rd degree). Using Plasma Exeresis method is effective not only because the patient avoids surgery having the same effect with less cost but also for histological reasons. Histological analyzes before and after show that in regions that was applies Plasma Exeresis, the area not only reconstructed but created and type collagen III after application [12,13] (Figure 3 & 4).

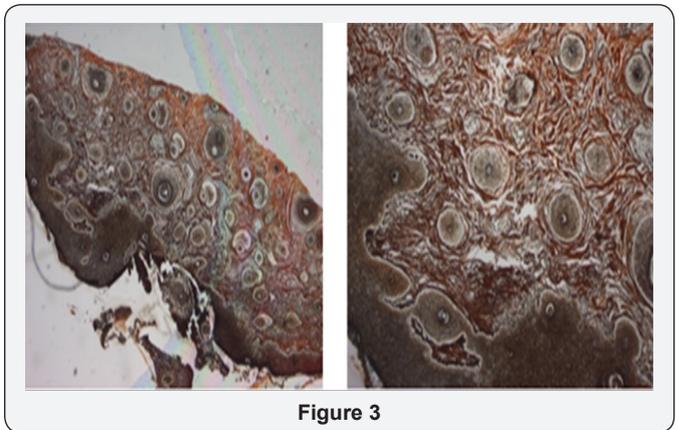


Figure 3

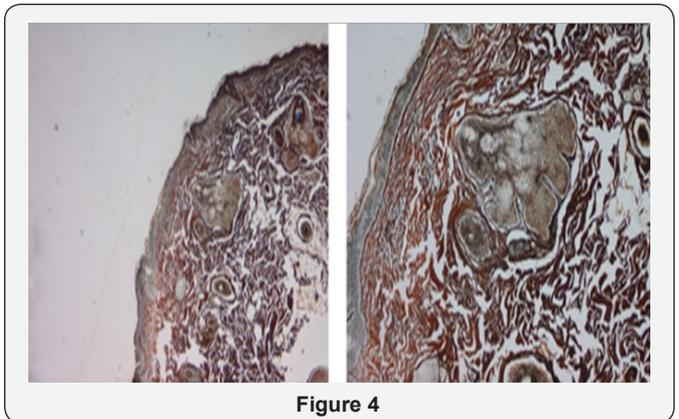


Figure 4

Conclusion

After 347 successful cases in 1 year period, it is a fact that now every doctor can provide permanent and effective treatments to the patient using the Plasma technology (ionization of gas-4th station of matter) in his clinic. The patient with low cost and without the fear of surgery solves his problem without blood, stitches and painful procedures. Finally it is worth to mention that the use of Plasma analysis is not only effective in ophthalmology and in other specialties as well.

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