The following document may only be disseminated with this disclaimer cover page attached.

PUBLICATION INFORMATION

Gentile RD. Renuvion®/J-Plasma for Subdermal Skin Tightening Facial Contouring and Skin Rejuvenation of the Face and Neck. Facial Plast Surg Clin North Am. 2019;27(3):273–290. doi:10.1016/j.fsc.2019.03.001

FINANCIAL & CONTENT DISCLOSURE: At the time of publication, Richard D. Gentile, MD, MBA was a Medical Advisory Board member, consultant, and clinical research investigator for Apyx Medical and received compensation in the form of Apyx stock and hourly compensation. The opinions contained herein are those of the author and do not necessarily represent the official position or policies of Apyx Medical, Inc. The author has not received any compensation for this article.

MANUFACTURING DISCLOSURE: Apyx Medical manufactures and owns the Renuvion/J-Plasma technology discussed in this article.

INDICATIONS FOR USE & INTENDED USE DISCLOSURES

- The Renuvion® APR Handpiece is intended for the delivery of radiofrequency energy and/or helium plasma for cutting, coagulation, and ablation of soft tissue during open surgical procedures.
- The Renuvion® APR Handpiece is indicated for use in subcutaneous dermatological and aesthetic procedures to improve the appearance of lax (loose) skin in the neck and submental region.
- The Renuvion® APR Handpiece is intended to be used with compatible electrosurgical generators owned by Apyx Medical (specifically BVX-200H, BVX-200P, APYX-200H, APYX-200P, APYX-RS3, and APYX-JS3).
- Renuvion Dermal Handpiece is indicated for dermatological procedures for the treatment of moderate to severe wrinkles and rhytides, limited to patients with Fitzpatrick skin types I, II, or III.
- Apyx Medical wants to present you with current scientific discourse. Specific usage outside of the cleared indications may not be safe or effective.

PUBLICATION INFORMATION

Gentile RD. Renuvion®/J-Plasma for Subdermal Skin Tightening Facial Contouring and Skin Rejuvenation of the Face and Neck. Facial Plast Surg Clin North Am. 2019;27(3):273–290. doi:10.1016/j.fsc.2019.03.001

RISKS:

- As with all energy devices there are inherent risks associated with its use. Risk associated with the use of the Renuvion APR may include: helium embolism into the surgical site due to inadvertent introduction into the venous or arterial blood supply system, unintended burns (deep or superficial), pneumothorax, temporary or permanent nerve injury, ischemia, fibrosis, infection, pain, discomfort, gas buildup resulting in temporary and transient crepitus or pain, bleeding, hematoma, seroma, subcutaneous induration, pigmentation changes, increased healing time, scarring, asymmetry and/or unacceptable cosmetic result.
- Risks associated with the use of the Renuvion Dermal System include but are not limited to hypertrophic scarring, milia/acne, telangiectasia (spider veins), skin discoloration/ hypopigmentation, dormant infection reactivation, infection, bruising or bleeding. Warning: Application of more than one treatment pass in the perioral area, on the forehead, and along the jawline has been associated with hypertrophic scarring.

As with any procedure, individual results may vary. As with all energy devices there are inherent risks associated with its use, refer to the IFU for further information.

Facial Plast Surg Clin North Am. 2019 Aug;27(3):273-290. doi: 10.1016/j.fsc.2019.03.001. Epub 2019 May 22.

Renuvion/J-Plasma for Subdermal Skin Tightening Facial Contouring and Skin Rejuvenation of the Face and Neck.

Gentile RD[1].

Author information

1 Department of Facial Plastic Surgery, Gentile Facial Plastic Surgery & Aesthetic Laser Center, 821 Kentwood Suite C, Youngstown, OH 44512, USA; Department of Facial Plastic Surgery, Cleveland Clinic Akron General Hospital, Akron, OH, USA. Electronic address: dr-gentile@msn.com.

Abstract

The Renuvion/J-Plasma helium based plasma device from Apyx Medical has technological features that result in a unique and effective method of action for the contraction of subdermal soft tissue. The device achieves soft tissue contraction by instantly heating tissue to temperatures greater than 85°C for between 0.040 and 0.080 seconds. The tissue surrounding the treatment site remains at much cooler temperatures resulting in rapid cooling of the tissue through conductive heat transfer. Compared to bulk tissue heating devices, this method of action results in effective soft tissue contraction with a lower risk of injury to surrounding tissue.

KEYWORDS: Coagulation; Collagen contraction; Helium; J-plasma; Plasma; Renuvion; Skin tightening; Subdermal

PMID: **31280843** DOI: 10.1016/j.fsc.2019.03.001