



제 56차 대한악안면성형재건외과학회 종합학술대회 및 정기총회



The 56th Congress of the Korean Association of
Maxillofacial Plastic and Reconstructive Surgeons
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Educational Lecture



Dr. Kyoung-Jin, Kang

Seoul Cosmetic Surgery Clinic

Korea

Seoul cosmetic Surgery Clinic, Busan, South Korea(2015.3-present).

Chief director of Plastic, aesthetic and reconstructive surgery of Wallace Memorial Baptist hospital, Busan, Korea(2014.1-2015.3)

Ex-Director of Korea Beauty School Clinic (2001-2014)

Diplomat of International Board of Cosmetic Surgery (IACS certified,2007)

Founder and 1st president of Korean Society of Korean Cosmetic Surgery and Medicine (KSKCS) and Korean College of Cosmetic Surgery(KCCS)(2007) (www.koreancosmeticsurgery.com)

Teaching Fellow of KCCS(2010-)

Professor of Medical School, Department of Anatomy, Catholic University of Daegu, Korea)(2000-2001)

Visiting Professor of Medical School, Department of Anatomy, Yeung-Nam University (Daegu, Korea)(2010-)

Editorial Advisory Board of Journal of Cosmetic Surgery & Medicine(JCSM) of Australian College of Cosmetic Surgery(2010-)

Teaching committee member of Plastic Surgery Fat Group of Chinese Medical Association(2013-)

Member of Korean Association of Anatomist(1990-)

Member of Korean Medical Association(1990-)

Member of Korean Academy of Aesthetic Surgery(2010-)

Member of International Academy of Cosmetic Surgery(2007-)

Founding Member of Korean College of Cosmetic Surgery(2007-)

Publications in cosmetic fields

1) KJ Kang, MD, PhD, et al: T-epicanthoplasty: New surgical treatment of asian Mongolian fold, Journal of Cosmetic Surgery & Medicine (JCSM) 2010; 5(1):p58-61. (ISSN 1834-3562).

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4) KJ Kang MD, A novel facial fat transfer technique with a concept of volumetric lifting, SAFI(Sequential Autologous Fat Injection), Gabon publishing Co., 2011: p1-p322, ISBN 978-89-92006-93-4(98510).

KAMPRS 2017 Secretariat

Tel: +82-53-740-0414 | Fax: +82-53-742-9007 | E-mail: info.kamprs2017@gmail.com | Website: <http://kamprs.or.kr/>



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Soft tissue facial contouring using fat grafting (SAFI) & liposuction

Kyoung-Jin Kang

Director of Seoul Cosmetic Surgery Clinic, Busan, South Korea.

Introduction:

Fat layer has been known as the most important structure that determines the contour of facial soft tissue. Although the amount and distribution of fat is affected by bone development, skin elasticity, facial expressions and aging process, soft tissue contour can be improved by surgeries such as fat grafting and liposuction. But, when performing these surgeries, the surgeon should pay close attention to prevent unexpected common complications such as irregularity and unnatural contour with skin sagging. Therefore, the speaker would like to present basic concept and approach method for facial lipoplasty to prevent these complications.

Methods:

1) Sequential Autologous Fat Injection (SAFI)

SAFI is a systemic approach for volume restoration without any sagging appearance only using autologous fat, and it takes into consideration of the various functional structures for maintaining soft tissue foundation, facial structural changes by aging process, and the influence of gravity due to the weight of grafted fat. In order to do this, a patient's face is divided into 5 zones by 4 SAFI lines which are closely related to the maintaining structures of soft tissue foundation such as facial retaining ligaments, bones, and muscles. Each zone has several injection areas according to the patient's facial deficiency. The harvested fat is injected sequentially from Zone 1 to Zone 5, from upper area to lower area within each zone, and from deep to superficial layer within each area. For prevention of irregularity and vascular occlusion, the author had developed "Baton grip technique". Two main points of this grip technique are that the shape of injected fat is thread-like linear pattern and the fat must be injected whiling drawing back of injection cannula.

2) Facial liposuction

In fatty face and aged face, the subcutaneous fat persists or increases in some facial areas. It is sometimes necessary to remove subcutaneous fat from malars, cheeks, nasolabial folds, jowls, submandibular, and submental areas. There are two ways to prevent post-liposuction sagging. One is combination therapy with fat grafting (do liposuction first and then fat grafting). The other is performing liposuction with opposite sequence of SAFI technique. To prevent irregularity and serious complications such as facial nerve damage, detailed and important techniques for facial micro-liposuction will be also introduced.

Results:

1. SAFI technique with Baton grip not only prevented unattractive results such as skin sagging and irregularity but also induced volumetric face lifting effect.
2. Both liposuction combined with fat grafting and liposuction performed with the opposite sequence of SAFI technique prevented sagging appearance and achieved natural and younger looking appearance.

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Conclusion: From the above results, it is suggested that the combination of SAFI technique with Baton grip and micro-liposuction with opposite sequence of SAFI technique is a reliable approach for facial volume restoration or reduction without gravitational skin sagging and irregularity.

Reference

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