

KANITA DAYALI TIP AÇISINDAN SVF ENDİKASYONLARI

*Op. Dr. E. Çiğdem KARADAĞ
Plastik, Estetik ve Rekonstrüktif Cerrahi
Acıbadem Altunizade Hastanesi*

LİTERATÜR TARAMASI

- Pubmed

- Web of Science

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60



12 yayın

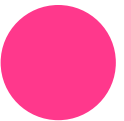
Yayın

- Scopus



12 Yayın

- A sınıf yayın: 2
- B sınıf yayın: 10



A SINIF YAYINLAR

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Stromal vascular fraction improves deep partial



Tohoku J. Exp. Med., 2011, 224, 229-234

Transplantation of Adipose Stromal Cells Promotes Neovascularization of Random Skin Flaps

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B SINIF YAYINLAR

- Cilt Gençleştirme - Antiaging



5 Yayın

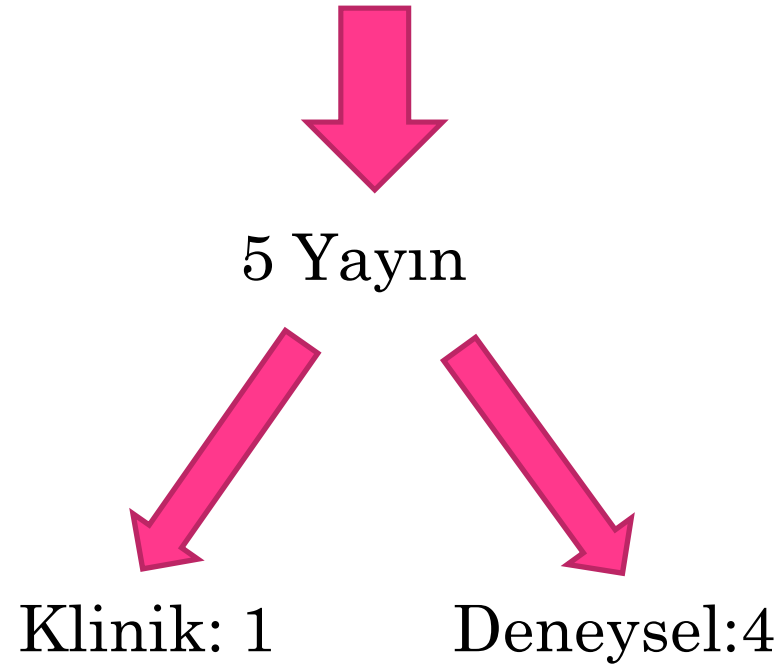
Klinik: 4

Deneysel: 1



B SINIF YAYINLAR

- Yara iyileşmesi



STROMAL VASKÜLER FRAKSİYONUN CİLDİ GENÇLEŞTİRME ETKİSİ

○ Cilt elastisitesini



○ Vasküleriteyi arttır



Antiaging Treatment of the Facial Skin by Fat Graft and Adipose-Derived Stem Cells

Luiz Charles-de-Sá, M.D.

Natale Ferreira Gontijo-de-
Amorim, M.D.

Christina Maeda Takiya, Ph.D.

Radovan Borojevic, Ph.D.

Donatella Benati, Ph.D.

Paolo Bernardi, Ph.D.

Andrea Sbarbati, Ph.D.

Gino Rigotti, M.D.

Verona, Italy; and Rio de Janeiro, Brazil

Background: The regenerative property of fat grafting has been described. However, it is not clear whether the clinical results are attributable to the stem cells or are linked to other components of the adipose tissue. This work is aimed at analysis of the histologic and ultrastructural changes of aged facial skin after injection of fat graft in addition to its stromal vascular fraction, obtained by centrifugation, and to compare the results with those obtained by the injection of expanded adipose-derived mesenchymal stem cells.

Methods: This study was performed in six consecutive patients who were candidates for face lift and whose ages ranged between 45 and 65 years. The patients underwent sampling of fat by liposuction from the abdominal region. The injection of fat and its stromal vascular fraction or expanded mesenchymal stem cells was performed in the preauricular areas. Fragments of skin were

STROMAL VASKÜLER FRAKSİYONUN CİLDİ GENÇLEŞTİRME ETKİSİ



Facial Surgery

Expanded Stem Cells, Stromal-Vascular Fraction, and Platelet-Rich Plasma Enriched Fat: Comparing Results of Different Facial Rejuvenation Approaches in a Clinical Trial

Gino Rigotti, MD; Luiz Charles-de-Sá, MD;
Natale Ferreira Gontijo-de-Amorim, MD; Christina Maeda Takiya, PhD;
Paola Romina Amable, PhD; Radovan Borojevic, PhD;
Donatella Benati, PhD; Paolo Bernardi, PhD;
and Andrea Sbarbati, MD, PhD

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STROMAL VASKÜLER FRAKSİYONUN CİLDİ GENÇLEŞTİRME ETKİSİ

- Melogenezis



- Dermal fibroblastları oksidatif stresten koruyarak foto yaşlanmayı





[Archives of Dermatological Research](#)

June 2009, Volume 301, [Issue 5](#), pp 329–336

Protective role of adipose-derived stem cells and their soluble factors in photoaging

Authors

[Authors and affiliations](#)

Won-Serk Kim, Byung-Soon Park , Jong-Hyuk Sung 

STROMAL VASKÜLER FRAKSİYONUN CİLDİ GENÇLEŞTİRME ETKİSİ

- SVF'den zengin yağ enjeksiyonunun survivalı



- Fat survival rate : %64 (with SVF)
%46 (Fat alone)

Dermatol Surg. 2013 Mar;39(3 Pt 1):449-56. doi: 10.1111/dsu.12058. Epub 2012 Dec 28.

Supplementing fat grafts with adipose stromal cells for cosmetic facial contouring.

Li J¹, Gao J, Cha P, Chang Q, Liao Y, Liu C, Li K, Lu F.

STROMAL VASKÜLER FRAKSİYONUN CİLDİ GENÇLEŞTİRME ETKİSİ

- Dermis yoğunluğunu ve kalınlığını
- Epidermis yoğunlunda etkisi YOK



Amirkhani MA., et al., *BioImpacts*, 2016, 6(3), 149-154
doi: 10.15171/bi.2016.21
<http://bi.tbzmed.ac.ir/>



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Rejuvenation of facial skin and improvement in the dermal architecture by transplantation of autologous stromal vascular fraction: a clinical study

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STROMAL VASKÜLER FRAKSİYONUN YARA İYİLEŞMESİNE ETKİSİ



STROMAL VASKÜLER FRAKSİYONUN YARA İYİLEŞMESİNE ETKİSİ

- Dermis kalınlığını ↓
- Fibrosis rezorbsiyonunu ↑

RESEARCH ARTICLE

Comparison between Stromal Vascular Fraction and Adipose Mesenchymal Stem Cells in Remodeling Hypertrophic Scars

Sophie Domergue^{1,2,3*}, Claire Bony^{1,2*}, Marie Maumus^{1,2}, Karine Toupet^{1,2}, Eric Frouin^{2,4}, Valérie Rigau⁴, Marie-Catherine Vozenin⁵, Guy Magalon⁶, Christian Jorgensen^{1,2,7‡}, Danièle Noël^{1,2,7‡*}

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STROMAL VASKÜLER FRAKSIYONUN YARA İYİLEŞMESİNE ETKİSİ

- VEGF ve FGF'yi artırarak flep vaskularitesini
- Kemik iliği kaynaklı kök hücre ile aynı etkiye sahip



Tohoku J. Exp. Med., 2011, 224, 229-234

Transplantation of Adipose Stromal Cells Promotes Neovascularization of Random Skin Flaps

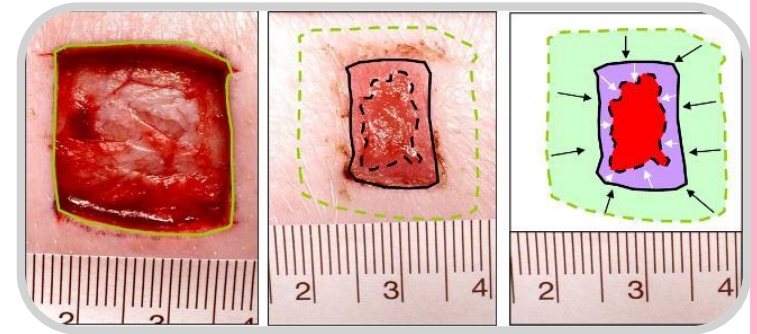
Lingling Sheng,^{1,*} Mei Yang,^{1,2,*} Hua Li,¹ Zijing Du,¹ Yiai Yang¹ and Qingfeng Li¹

¹Department of Plastic & Reconstructive Surgery, Shanghai Ninth People's Hospital, Shanghai Jiao Tong University, School of Medicine, Shanghai, P.R. China

²Division of Plastic Surgery, University of Mississippi Medical Center, Jackson, MS, USA

STROMAL VASKÜLER FRAKSİYONUN YARA İYİLEŞMESİNE ETKİSİ

- Yara kontraksiyonunu



Lab Invest. 1995 Oct;73(4):532-40.

Stromal cells from subcutaneous adipose tissue seeded in a native collagen/elastin dermal substitute reduce wound contraction in full thickness skin defects.

de Vries HJ¹, Middelkoop E, van Heemstra-Hoën M, Wildevuur CH, Westerhof W.



STROMAL VASKÜLER FRAKSIYONUN YARA İYİLEŞMESİNE ETKİSİ

- EGF, VEGF ve FGF salınımını ↑
- Anjiogenezis ve hücre proliferasyonunu ↑
- Doku ekspansiyonunu ↑



Transplantation of stromal vascular fraction as an alternative for accelerating tissue expansion

Lingling Sheng ^a, Mei Yang ^{a,b}, Zijing Du ^a, Yiai Yang ^a, Qingfeng Li ^{a,*}

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^b Division of Plastic Surgery, Southern Illinois University School of Medicine, 520 North 4th Street, Ste 202, Springfield, IL 62702, USA

STROMAL VASKÜLER FRAKSIYONUN YARA İYİLEŞMESİNE ETKİSİ

- Lokal vaskülarizasyonu ↑
- Sklerozisi ↓



New fat-derived products for treating skin-induced lesions of scleroderma in nude mice

Serratrice *et al.*

STROMAL VASKÜLER FRAKSİYONUN YARA İYİLEŞMESİNE ETKİSİ

- Diyabet yaraları
- Ateroskleroza bağlı yaralarda neovaskülarizasyonu



Non-reconstructable peripheral vascular disease of the lower extremity in ten patients treated with adipose-derived stromal vascular fraction cells



Michael H. Carstens^{a,b,c,*}, Arturo Gómez^{a,c}, Ronald Cortés^d, Elizabeth Turner^e, Cecilia Pérez^f, Marlon Ocon^g, Diego Correa^{h,i,**}



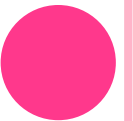
SONUÇ

- Kozmetik Etkileri:
 - Cilt gençleştirme
 - Güneşe baęlı yařlanmayı önleme
 - Hiperpigmentasyonu azaltma



SONUÇ

- Kronik yaralar
- Hipertrofik skar
- Yara kontraksiyonu
- Skleroderma
- Yanık
- Doku genişletme
- Flep survival



TEŐEKKÜR EDERİM

