J Cosmet Dermatol. 2010 Mar;9(1):66-71.

**Platelet-rich fibrin matrix for improvement of deep nasolabial folds.**

[Sclafani AP](file://localhost/pubmed%3Fterm%3D%2522Sclafani%2520AP%2522%255BAuthor%255D).

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**Abstract**

**BACKGROUND:**Dermal augmentation continues to grow as an aesthetic facial procedure. Many exogenous filler materials rely on an autologous fibrotic response for volume augmentation.

**AIMS:**To evaluate the efficacy of a single injection of autologous platelet-rich fibrin matrix (PRFM) for the correction of deep nasolabial folds (NLFs).

**PATIENTS/METHODS:**Whole blood was obtained from 15 adults, and an activated autologous PRFM produced using a proprietary system (Selphyl; Aesthetic Factors, Inc., Wayne, NJ, USA) was then injected into the dermis and immediate subdermis below the NLFs. Subjects were photographed before and after treatment; NLFs were rated by the treating physician before and after treatment using the Wrinkle Assessment Scale (WAS) and patients rated their appearance at each post-treatment visit using the Global Aesthetic Improvement Scale. Patients were evaluated at 1, 2, 6, and 12 weeks after treatment.

**RESULTS:**All patients were treated to maximal (no over-) correction, with a mean reduction in WAS score of 2.12 +/- 0.56. At 1 week after treatment, this difference was 0.65 +/- 0.68, but rose to 0.97 +/- 0.75, 1.08 +/- 0.59, and 1.13 +/- 0.72 at 2, 6, and 12 weeks after treatment, respectively (P < 0.001). No patient noted any fibrosis, irregularity, hardness, restricted movement, or lumpiness.

**CONCLUSIONS:**PRFM can provide significant long-term diminution of deep NLFs without the use of foreign materials. PRFM holds significant potential for stimulated dermal augmentation.

PMID: 20367676 [PubMed - indexed for MEDLINE]

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* [ArteFill: a long-lasting injectable wrinkle filler material--summary of the U.S. Food and Drug Administration trials and a progress report on 4- to 5-year outcomes.](file://localhost/pubmed/16936546)[Plast Reconstr Surg. 2006]

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*Cohen SR, Berner CF, Busso M, Gleason MC, Hamilton D, Holmes RE, Romano JJ, Rullan PP, Thaler MP, Ubogy Z, et al.Plast Reconstr Surg. 2006 Sep; 118(3 Suppl):64S-76S.*

* [European evaluation of a new hyaluronic acid filler incorporating lidocaine.](file://localhost/pubmed/19146607)[J Cosmet Dermatol. 2008]
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Calcium hydroxylapatite (Radiesse) for correction of the mid- and lower face: consensus recommendations.

*Graivier MH, Bass LS, Busso M, Jasin ME, Narins RS, Tzikas TL.Plast Reconstr Surg. 2007 Nov; 120(6 Suppl):55S-66S.*

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