

COLORESCIENCE® MULTI-CENTER CLINICAL EXPERIENCE STUDY

STUDY CENTERS

Cascade Eye & Skin Centers, University Place, WA; Columbus Aesthetic & Plastic Surgery, Columbus, OH; DermaCare Laser & Skin Care Clinics, Carlsbad, CA; Essential Beauty Med Spa and Laser Center, Foothill Ranch, CA; Sand Lake Dermatology, Orlando, FL.

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SUMMARY

Patients undergoing a variety of minimally invasive aesthetic facial treatments were treated with Colorescience® products immediately after the procedure to camouflage side effects, such as erythema, and daily for 4 weeks. Patients and study investigators were asked to describe their post-treatment experiences by responding to questionnaires. The results demonstrated that the use of Colorescience® products following non-ablative aesthetic procedures improves patient confidence, comfort, satisfaction and the likelihood that patients will rebook a treatment.

1 | INTRODUCTION

According to statistics maintained by the American Society of Plastic Surgeons, the number of minimally invasive facial cosmetic procedures performed in the United States exceeded 15 million in 2017. The most frequently performed procedures were botulinum toxin, soft tissue fillers, chemical peels, microdermabrasion and intense pulsed light (IPL) therapy (1). While these procedures are less invasive than surgery, they are still often associated with minor treatment-related side effects. These local effects may include bruising, ecchymosis, itching, erythema, edema, and discoloration (2-4). While these effects eventually resolve spontaneously (5), symptoms such as bruising may persist for 1 to 2 weeks (6).

Skincare products can improve the treatment experience following facial cosmetic procedures by camouflaging local post-treatment side effects such as bruising and erythema and helping to calm the skin from itching, inflammation and general discomfort. A recent study demonstrated the use of Colorescience® skincare products following IPL therapy safely decreased post-treatment side effects and enhanced treatment tolerability (7). Based on these promising results, the objective of the following study was to test the hypothesis that using Colorescience® products immediately following minimally invasive in-office facial cosmetic procedures will improve patient and practice outcomes.

2 | MATERIALS AND METHODS

Thirty-four patients underwent 42 minimally invasive facial cosmetic procedures in six clinics, including chemical peels (13), IPL (7), laser resurfacing (7), microneedling (6), fillers (5), and other minimally invasive procedures (4). Digital images were obtained prior to the cosmetic procedure, immediately post-treatment, following the post-treatment application of Colorescience® products, and after 4 weeks of using Colorescience® products. These included Even Up® Clinical Pigment Perfector® SPF 50, Sunforgettable® Brush-On Sunscreen SPF 50, Mineral Corrector Palette SPF 20 and Lip Shine SPF 35. After the post-procedure application of Colorescience® products, patients were asked to respond to the following questions using a 5-point scale: 1 (Not at all), 2 (A little), 3 (Somewhat), 4 (Very), or 5 (Extremely) (Table 1).

TABLE 1. PATIENT ASSESSMENT ON TREATMENT DAY

	Very, Extremely or Somewhat
How uncomfortable did your skin feel immediately after treatment but before Colorescience® application?	50%
After seeing your picture after treatment but before Colorescience® application, how self-conscious would you be if you were out in public?	94%
Does your skin feel more comfortable after Colorescience®?	88%
Are you less self-conscious now after application of Colorescience®?	95%
Do you feel the application of Colorescience® immediately made skin look better?*	94%
Does the way your skin looks and feels now after Colorescience® make you more likely to consider having treatment again?*	97%
How much did the addition of Colorescience® products improve your impression of the procedure you just received?*	87%

* When asked about specific post-procedure side effects, 39% of patients were Very or Extremely bothered by erythema; however, most patients (69%) believed that erythema was the most improved side effect following Colorescience® application.

Post TX

**Post TX
After Colorescience®**

Post TX

**Post TX
After Colorescience®**



Photos courtesy Sand Lake Dermatology, Allison Arthur, MD and Raine Orza, Medical Aesthetician and Laser Technician

Photos courtesy of Columbus Aesthetics Plastic Surgery, Marcella Brooks Anderson, RN, BSN

TREATMENT: IPL

TREATMENT: Dermaplane with Light Chemical Peel and ZO® Brightening Mask

Following the post-procedure application of Colorescience® products, treating physicians were asked to respond to the following questions using the same 5-point scale (**Table 2**).

TABLE 2. PATIENT ASSESSMENT 4 WEEKS AFTER TREATMENT

	Very or Extremely
Were the steps to apply Colorescience® products an easy as part of post-procedure treatment?	97%
Did you enjoy applying Colorescience® products as part of your post treatment daily routine?	94%
Do you feel your skin looks and feels rejuvenated after using Colorescience® products?	91%
Does your skin feel younger and healthier using Colorescience® daily?	94%
Do you feel more confident about having the procedure again, or returning for additional treatment?	94%
Will you continue using Colorescience® with your daily routine?	94%

After using the Colorescience® products for 4 weeks, patients were asked to respond to the following questions using the same 5-point scale (Table 3).

TABLE 3. INVESTIGATOR QUESTIONS	Very or Extremely
Did you make a difference protecting your patients outcome by providing ultraviolet and environmental protection with Colorescience®?	97%
Was it easy to apply these Colorescience® products in the treatment room?	97%
Was it easy to educate patients on the use of Colorescience® products in the treatment room?	100%
Was it easy to have a conversation about Colorescience® if part of a post-treatment protocol in the treatment room?	100%
How much did the application of Colorescience® improve your patient’s satisfaction with the treatment they received?	100%

Similar to patient responses, 73% of Investigators believed erythema was Very or Extremely improved.

3 | KEY FINDINGS

FOLLOWING POST-PROCEDURE APPLICATION OF COLORESCIENCE®

- **95%** of patients who were initially self-conscious to go out in public after their treatment were more confident to do so
- **88%** of patients who were uncomfortable after their treatment said their skin felt more comfortable
- **87%** of patients had an improved perception of their procedure
- **97%** of patients were likely to have treatment again as a result of Colorescience®
- **100%** of clinicians said it was easier to educate patients on the use of Colorescience® when included as part of the procedure

AFTER 4 WEEKS OF TREATMENT WITH COLORESCIENCE®

- **97%** of patients found the products easy to use
- **94%** of patients enjoyed using the product
- **91%** of patients felt the product made their look and feel rejuvenated
- **94%** of patients felt their skin felt younger and healthier
- **94%** of patients felt more confident about having another facial procedure
- **94%** of patients will continue using Colorescience® products

CONCLUSION

The use of Colorescience® products following non-ablative aesthetic procedures improves patient confidence, comfort, satisfaction and the likelihood the patient will rebook a treatment.

REFERENCES

1. American Society of Plastic Surgeons. 2017 Plastic Surgery Statistics Report. Available: <https://www.plasticsurgery.org/news/plastic-surgery-statistics?sub=2017+Plastic+Surgery+Statistics>. Accessed April 23, 2018.
2. Vanaman M, Fabi SG, Carruthers J. Complications in the cosmetic dermatology patient: a review and our experience (Part 1). *Dermatol Surg* 2016;42:1-11.
3. Vanaman M, Fabi SG, Carruthers J. Complications in the cosmetic dermatology patient: a review and our experience (Part 2). *Dermatol Surg* 2016;42:12-20.
4. Funt D, Pavicic T. Dermal fillers in aesthetics: an overview of adverse events and treatment approaches. *Plast Surg Nurs* 2015;35:13-32.
5. Levy LL, Emer JJ. Complications of minimally invasive cosmetic procedures: prevention and management. *J Cutan Aesthet Surg* 2012;5:121-32.
6. Moradi A, Shirazi A, Moradi-Poehler J, et al. A blinded, randomized, split-face pilot study of bruising and pain with hyaluronic acid for correction of perioral lines using no lidocaine, lidocaine alone, and lidocaine and epinephrine. *Aesthet Surg J* 2015;35:443-55.
7. Jones IT, Guiha I, Fabi SG. Open-label study assessing the efficacy and tolerability of topical skincare and sun protection products following intense pulsed light treatment. *J Cosmet Dermatol* 2017 Nov 21 [Epub ahead of print].