VYC-17.5L Is Effective for the Treatment of Static and Dynamic Radial Cheek Lines: Results From the BEAM Study

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ABSTRACT

Background: Rake time in the check even cam be associated with an odder and less attractive background in the second sec

Methods: A sample of 53 French women aged 40 to 65 years received VYC-17.5L treatment in both Methods: A sample of S3 French women aged 40 to 59 years necesived VFC-17.52, treatment in host checks on Day vin includous local modulus presentement to Day 41.45 televierses of reatment was evaluated on Day 4.6. Median total injection volumes of 4.0 mL and 2.0 mL were used for initial and buck-tay breatment with VFC 17.31, respectively. The primary includous reads and sub-tay television to the present endpoint included evaluating investigator assessments of improvement in dynamic radiad check inse using terdpoints included evaluating investigator assessments of improvement in dynamic radiad check inse using to C485, subject 26.74 Precession of Aq. (2014), subject assessments of treatment assistication and natural lock times and instrument-assessed changes in inducing immung (sub-tay terd assessments). Notestimetaria enseis, and instrument-assessed changes in sing using immung (sub-tay terd assess, card in the Notestimetaria enseis. Clubmeter)², and sind and any terd ensets (clubmeter)², and sind ensets (clubmeter)², and s Idealizationship 'is and establishmenis (Lubineter'), and ann destagring-on-test [Demission') or (mean age, 223 years) who viewed protographs and videos of hubgets taken teleor testament and on day 45. Separate panels of German by evaluation evaluated videos of autjects recorded either before or after testament's bases are instantic roticausitish. Self-approximation and taken by the testament and on the settiment's bases are particularly self-approximation and taken by the testament of the answer of on AGE, and independent investigators and 95% of duplects as respondent. Skelp cash who perceived termselves and testame age or doir versus their current gas before testament (PA) approximation and and approximation and the settiment of the settiment of the settiment and the or available and approximation of the settiment of the settiment and the approximation and the settiment of the approximation and the settiment of the settiment of the testament's and the settiment of the approximation and testament (PA) and the settiment and the testament and approximation and testament (PA) and the settiment and testament testament testament restament (PA) and the settiment of the approximation and the testament (PA) and the settiment testament agring the testament (PA) and the testament testament testament testament roticausitisky (PA) 2001). The most commonly reported to the testament (PA) (T). The settiment of the testament testament testament roticausitisky (PA) 2001). The test commonly reported to the testament (PA) (T). The settiment of the testament (PA) (T). The set commonly reported to testament testament testament testament testament testament roticausitisky (PA) 2001). The testament testament testament testament roticausitisky (PA) 2001). The test testament testament testament testament roticausitisky (PA) 2001). The testament testament testament roticausitisky (PA) 2001). The testament testament roticausitisky (PA) 2001). The testament testament roticausitisky (PA) 2001). The testamen

mass (22 cm); most issis were mitia and resolved within 15 days. No senous adverse events were reg Conclusions: VVC1-75. Is elective for correcting dynamic radial check lines, with 98% of subjects reporting improvement 45 days after treatment. Treatment resulted in instrument-assesses improvements in skin quality and perception of younger age as evaluated by subjects and indepen assessors. In addition, lay assessments suggest that treatment with VYC-17.5L was not noticeable enough to allow independent observers to reliably identify treated versus untreated faces.

INTRODUCTION

 Horney books rebuiling size control on the perceptions of a paron's tage, health, and Adhed independent of the perception of a perception of a perception of a perception of a perception of the percep The purpose of this study was to evaluate the effectiveness of VYC-17.5L treatment of dynamic radial cheek line skin depressions

METHODS

Study Design

A prospective, uncontrolled, open-label study conducted at a single site in France evaluated the effectiveness of VVC-17.5L for treating dynamic radial cheek lines (ANSM registration number 2016-A00309-42)

VYC-17.5L treatment was administered to subjects in both cheeks on Day 1 with optional touch-up treatment on Day 14; follow-up occurred through Day 45 after initial treatment

Subjects

Women aged 40 to 65 years Inclusion criteria

 Allergan Fine Lines Scale score ≤3 (5-point scale: 0=none, 1=minimal, 2=moderate, 3=severe, 4=dfftuse)¹ Agreement to refrain from facial skin-care regimen changes and antiwrinkle, filler, or skin resurfacing procedures or treatments during the study

- Exclusion criteria
- Anticoagulant therapy during, 10 days before, or 3 days after study treatment Anti-inflammatory drugs or substances that increase coagulation time 10 days before or 3 days after study treatment
- Facial surgery, tissue grafting, or tissue augmentation with silicone, fat, or other permanent or semi-permanent dermal fillers during the study; temporary facial dermal filler injections within the
- year before the study

Analyses Primary Endpoint

Subject-assessed overall aesthetic improvement from baseline (Day 1) to Day 45 in dynamic radia check lines while smiling, using the Global Aesthetic Improvement Scale (GAIS; 2*much improved imimproved, 0*no change, -- Invorge, -2*much worse)

Secondary Endpoints

- Investigator-assessed improvement in dynamic radial cheek lines from baseline to Day 45 using the GAIS $% \left({{\rm D}_{\rm S}} \right)$ Subjects achieving a GAIS score of 1 or 2 (improved or much improved) for both cheeks we
- Surgetse services as a source or 1 or 2 (reproved or much improved) or both Offeets Wefe classified as responders by investigatoris; partial responders were those with a GAIS score of 1 or 2 for only 1 cheek; non-responders were those with a GAIS score s0 for both cheeks bject assessments of treatment at Day 45: Subject asse
- Subject assessments of meanment at Day 45: Change from baseline in Self-Perception of Age (SPA; Q: How do you think your facial appearance looks compared to your age today? A: I look my current age; I look N years younger; I look N vears older
- Natural look of treatment of dynamic radial cheek lines, satisfaction with treatment of dynamic

neurou nox or treatment or opnamic radial cheek lines, satisfatcion with treatment of dynamic radial cheek lines, and likehood of tecommending the treatment to another person, each radiad using al 10-point socie (0-mort al al, 10-wer) much) instrument-assessed changes from baseline to Day 45 in mean roughness, amplitude, and texture for dynamic and static radial cheek lines at maximum smile (measured via DemaTOP[®] tringe projection (ECTECH 54, Marcussis, France))

Additional Analyses Changes in skin quality

- angen ans (tablit), organi nijavanju pozranelevs from baseline to Day 45 is udijecti jelit or right chesk at net sich hydration messicel by ModuzeMeeter? (Dealm Rechnologies Lid, Kuipola, Fraised), sich lesätch/immess messicel by Domeeter/(Courage-Mutazia Rechnol Centro), Add Kith, Cologne, Gemany), and sikh denshythixkness messured by DemaScar* C (Cortex Technology, Hadsud, Demrark).
- Independent lay panel review
- Independent lay paral review Assessmets of a page, attractiveness, and health by lay evaluators during their review of photographs and videos of subjects amiling at baseline and Day 45 The order of each subjects abering and ther image was area monotized, and evaluators were asked to indicate which face they considered to be younger looking, healthier, and more attractive Lay evaluator assessments of treatment noticeability during a review of videos of subjects smilling either before or after treatment.
- Safety

Injection site responses (ISRs) and adverse events (AEs) monitored by investigators

Statistics

Quantitative variables summarized descriptively (i.e., mean, median) Paired t-test or Wilcoxon signed rank test for significance of changes from baseline

RESULTS Subjects

- Subjects were French women, most with Fitzpatrick skin phototypes II and III (Table 1)
- Table 1. Baseline Demographics Age, median (range), years 57 (40-65) Weight, mean (SD), kg Fitzpatrick skin phototype, n (%)⁶ 60 (10.0) 20 (38) 24 (45) 9 (17)

- Treatment
- 53 subjects received VYC-17.5L in radial cheek lines on both cheeks (Day 1) 49 (92%) subjects received a touch-up injection on the right cheek and 48 (91%) received a touch-up injection on the left cheek on Day 14
- Median total injection volumes were 4.0 mL (range, 2.0-4.0) for initial treatment and 2.0 mL (range 1.0-4.0) for touch-up treatment

Improvement in Dynamic Radial Cheek Lines

On Day 45, 98.1% of subjects reported that their radial cheek lines were improved or much improved from baseline; only 1 subject (2%) reported no change (Figure 1) Similarly, investigators classified 52% of subjects as responders to treatment No subjects or investigators reported that radial cheek lines were worse or much worse

Figure 1. Subjects With Improved or Much Improved Dynamic Radial Cheek Lines on the GAIS After Treatment With VYC-17.5L

GAIS Score

or both cheeks in 52 subjects Self-Perception of Age

Figure 2. Subjects' Self-Perception of Age After Treatment With VYC-17.5L



Subject Satisfaction With and Evaluation of Natural Look of Treated Radial Cheek Lines

Subjects were olobally satisfied with treatment and natural results following VYC-17.5L treatment and stated that they would recommend treatment to a friend (Figure 3)

Figure 3. Subject Ratings for Satisfaction With Treatment, Natural Look of Treatment, and Likelihood to Recommend Treatment



Instrument-Assessed Changes in Wrinkle Parameters

Static and dynamic radial cheek lines significantly improved with respect to roughness, amplitude and texture measures at Day 45 after treatment vs baseline (P<0.001 for all comparisons) - Figure 4 shows improvements from baseline to Day 45 in roughness, amplitude, and texture through minimized skin depressions/creases, increased smooth areas, and less pronounced raised areas/bumps

Analysis of Skin Quality Measures

Treatment with VYC-17.5L significantly improved skin hydration, elasticity/firmness, and density over baseline, with no significant change in overall thickness (Table 2)



Figure 4. Representative Images of Improvement in Instrument-Assessed

Table 2. Improvement From Baseline in Skin Hydration, Elasticity/Firmness Density, and Thickness With VYC-17.5L Treatment

Skin Quality Parameter		Day 45 vs Baselir
Hydration, measured at skin depth of 0.5 and 1.5 mm	MoistureMeter D	P<0.0001
Elasticity/firmness	Cutometer	P<0.05
Density	DermaScan C	P<0.0001
Thickness	DermaScan C	NS

Perceptions of Facial Treatment on Age, Health, and Attractiveness Judgments, Mean (SD)			
Before Treatment		After Treatment	
Men	Women	Men	Women
24.2 (5.2)	20.4 (5.6)	27.8 (5.2)	31.6 (5.6)
29.9 (7.3)	26.8 (5.2)	22.1 (7.3)	25.2 (5.2)
26.2 (4.7)	25.6 (6.3)	25.8 (4.7)	26.4 (6.3)
	Perception Attr Before T Men 24.2 (5.2) 29.9 (7.3) 26.2 (4.7)	Berceptions of Facial Tre Attractiveness Ju Before Treatment Men Women 24.2 (5.2) 20.4 (5.6) 29.9 (7.3) 26.8 (5.2) 26.2 (4.7) 25.6 (6.3)	Berceptions of Facial Treatment on Age Before Treatment After T Men Women Men 24.2 (5.2) 20.4 (5.6) 27.8 (5.2) 29.9 (7.3) 26.8 (5.2) 22.4 (7.3) 26.2 (4.7) 25.6 (6.3) 25.8 (4.7)

Independent Lay Panel Reviews

A total of 550 lay evaluators (mean age, 23.2 years) assessed the age, health, and attractiveness of subjects in photographs and videos

- Those who viewed photographs of subjects at baseline and Day 45 judged faces as significantly younger after treatment (P=0.001), with perceptions of attractiveness remaining unchanged (Tat Women evaluators were more likely than men to view images after treatment as younger than before treatment (P-0.05)
- Women evaluators were more likely than men to judge subjects in post-treatment videos as more attractive (P<0.05)
- Lay evaluators who assessed the noticeability of subjects' treatment correctly identified a smaller

Lay evaluations who assesses the inclusion of subjects interaintent correctly identineed a strategier proportion of treated vs untrated faces in the video review (P-0.001). These lay assessments suggest that treatment with VPC-17.5L results in natural-looking outcomes, as independent observers were unable to consciously discent treated vs untrated faces; Figure 5 shows representative examples of subjects before and after images viewed by independent lay evaluators Safety Evaluation

ISRs were reported by 33 of 53 subjects, with the most common being hematoma, bruising, and mass, and most being mild in severity (Table 4) Most ISRs resolved within 15 days No serious AEs were reported, and reported ISRs were as expected for filler treatment

Bruising	Mild	16 (30.2)
Hematoma	Mild	18 (34.0)
	Moderate	1 (1.9)
Induration	Mild	2 (3.8)
Mass	Mild	12 (22.6)
Pain	Mild	2 (3.8)
Pruritus	Mild	1 (1.9)
Swelling	Mild	1 (1 0)

Figure 5, Representative Images Of Female Subjects (Subject A, 62 Years O Age: Subject B, 64 Years Of Age) With Radia Cheek Lines At Baseline And At Day 45 Are Shown. Both Subjects Achieved a GAIS Score of 1 (Improved) by Day 45. Both Subjects had a SPA Score of 2; at Day 45, Subject A Reported Feeling 10 Years Younger And Subject B Reported Feeling 2 Years Younger



CONCLUSIONS

- s who had been treated with VYC-17.5L in their radial cheek lines dependently assessed as younger looking and perceived themse

- nonstrated an acceptable safety profile for the treatme es, with ISRs mostly mild and as expected

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P Oglivie, B Fink, C Leys, S Lipko-Godlewska, and F Niforos are investigators for Allergan plc, Marlow, UK, G Kerson and M Silberberg are employees of Allergan plc, Marlow, UK.

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Table 3. Results of Indepen	ident Lay Pan	el Photogra	phic Review	<i>(</i>	
	Perceptions of Facial Treatment on Age, Healtl Attractiveness Judgments, Mean (SD)				
	Before T	Before Treatment		After Treatme	
	Men	Women	Men	Wo	
Age Which looks younger? ^{s,b}	24.2 (5.2)	20.4 (5.6)	27.8 (5.2)	31.6	
Health Which looks healthier?	29.9 (7.3)	26.8 (5.2)	22.1 (7.3)	25.2	
Attractiveness Which looks more attractive?	26.2 (4.7)	25.6 (6.3)	25.8 (4.7)	26.4	