



MINÉRAL 89 DAILY BOOSTER

COMPENDIUM

20+ STUDIES WORLDWIDE

VICHY'S MOST CLINICALLY TESTED PRODUCT

8 POST-AESTHETICS PROCEDURES INDICATIONS 6 FACIAL DERMATOSES INDICATIONS

MAN AND WOMAN. ALL PHOTOTYPES TESTED ON ASIAN AND CAUCASIAN POPULATIONS



MINERAL 89 DAILY BOOSTER STUDIES TABLE OF CONTENTS

INTRODUCTION (3-7)

- 1. VICHY MINÉRAL 89 DAILY BOOSTER.
- 2. SAFETY AND SUSTAINABILITY COMMITMENTS.
- 3. VICHY'S SKIN EXPOSOME SCIENCE.
- 4. VICHY VOLCANIC MINERALISING WATER.
- 5. OVERVIEW OF EFFICACY AND SAFETY TESTS.

SKIN STRENGTHENING (8-15) IN VIVO EFFICACY & SAFETY STUDIES

- 1. SKIN BARRIER RECOVERY IN CAUCASIAN WOMEN. IN VIVO EFFICACY STUDY
- 2. SKIN BARRIER RECOVERY IN ASIAN WOMEN. IN VIVO EFFICACY STUDY
- 3. SKIN BARRIER PROTECTION IN CAUCASIAN AND ASIAN WOMEN.
 IN VIVO EFFICACY STUDY
- 4. TONICITY AND FIRMNESS.
 IN VIVO EFFICACY STUDY
- 5. HYDRATION.
 IN VIVO EFFICACY STUDY
- 6. TEST UNDER DERMATOLOGICAL CONTROL. IN VIVO SAFETY STUDY
- 7. TEST UNDER OPHTHALMOLOGICAL CONTROL.
 IN VIVO SAFETY STUDY
- 8. NON-SENSITISING, NON-IRRITANT.
 IN VIVO SAFETY STUDY

GLOBAL OBSERVATIONAL STUDY (23-26)

1. GLOBAL OBSERVATIONAL STUDY 3400 PATIENTS, 22 COUNTRIES.

POST-PROCEDURE PRESCRIPTION (27-31)

- 1. GLOBAL OBSERVATIONAL STUDY
 POST-AESTHETIC PROCEDURES SUBGROUP.
- 2. IN VIVO POST-PROCEDURE EFFICACY AND TOLERANCE STUDY COSMETIC MASK.

ROSACEA PRESCRIPTION (32-41)

- 1. GLOBAL OBSERVATIONAL STUDY
 ROSACEA, REACTIVE AND SENSITIVE SKIN SUBGROUP.
- 2. IN VIVO EFFICACY, TOLERABILITY AND SATISFACTION SPLIT-FACE STUDY.
- 3. EX VIVO IVERMECTIN PENETRATION STUDY.

BOOSTING ANTI-AGEING (16-22) IN VIVO EFFICACY & CONSUMER PERCEPTION

- 1. COSMETOCLNICAL STUDY IN ASIAN SKIN IN VIVO EFFICACY STUDY.
- 2. COSMETOCLNICAL STUDY IN CAUCASIAN SKIN IN VIVO EFFICACY STUDY.
- 3. CONSUMER TESTS ON ALL PHOTOTYPES





MINERAL 89 DAILY BOOSTER

STRENGTHENS SKIN BARRIER FUNCTION ENHANCES SKIN HYDRATION IMPROVES SENSITIVE SKIN





CLINICALLY-PROVEN EFFICACY AS ADJUNCT TO 8 POST PROCEDURES AND 6 FACIAL DERMATOSES. IMPROVEMENT IN: ERYTHEMA - HYDRATION - DESQUAMATION - BURNING - ITCHING - STINGING/TINGLING.

MOST CLINICALLY TESTED PRODUCT, INCLUDING A LARGE OBSERVATIONAL STUDY

3.927 PATIENTS - 20 SCIENTIFIC STUDIES - 325 DERMATOLOGISTS - 22 COUNTRIES.

HIGH TOLERANCE - DAILY USE - CLEAN FORMULA - SUITABLE FOR MEN & WOMEN.

YOUR PATIENTS' FIRST STEP FOR A HEALTHY-LOOKING SKIN

MINERAL 89 DAILY BOOSTER SUSTAINABILITY



CLEAN FORMULA









94% NATURAL ORIGIN INGREDIENT

NO ALCOHOL, NO SILICON, NO FRAGRANCE, NO PHENOXYETHANOL, NO EDTA, NO BHT, NO SULFATE.

ONLY 13 INGREDIENTS

ECO-CONSCIOUS









-23% VIRGIN GLASS REMOVED FROM THE BOTTLE

25% RECYCLED GLASS

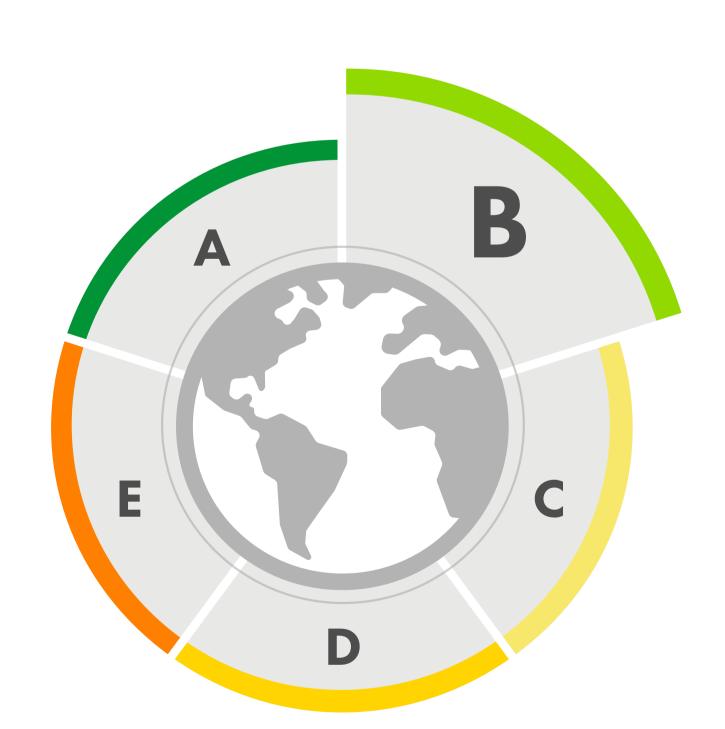
1/4 OF OUR PACKAGING CONTAINS RECYCLED GLASS.

100% RECYCLABLE BOTTLE

OUR GLASS BOTTLE IS FULLY RECYCLABLE.

GLOBAL ENVIRONMENTAL AND SOCIAL IMPACT

OF MINÉRAL 89 DAILY BOOSTER*



CARBON FOOTPRINT

8,5 g¹ per use. 119 g for 10 ml.



WATER FOOTPRINT

0,3² per use. 5,4 for 10 ml.



MANUFACTURING CONDITIONS:

MADE IN A RESPONSIBLE FACTORY.

Waste recovery	100%
Renewable energy	>99%

ENVIRONMENTAL IMPACT OF PACKAGING:

Share of FSC TM or PEFC certified paper/ board	100%
Part of bottle made of recycled material ³	25%
Recyclable ⁴	Yes
Rechargeable ou refillable	No

SOCIAL IMPACT OF PRODUCT

The ingredients and components of this product come from suppliers committed to the UN Core Principles on Working Conditions. 4 suppliers committed to the social inclusion of people from vulnerable communities contributed to the realization of this product.

1. Grams of CO2 equivalent (average of the skincare category = 9.8g) 2. Water including impact on quantity (m³) and water quality - average of the facial category = 1.7) 3. Excluding the locking system 4. Sorting instructions may vary locally



VICHY'S SKIN EXPOSOME SCIENCE 40 YEARS OF EXPERTISE & 28 PUBLICATIONS EXPOSOMES





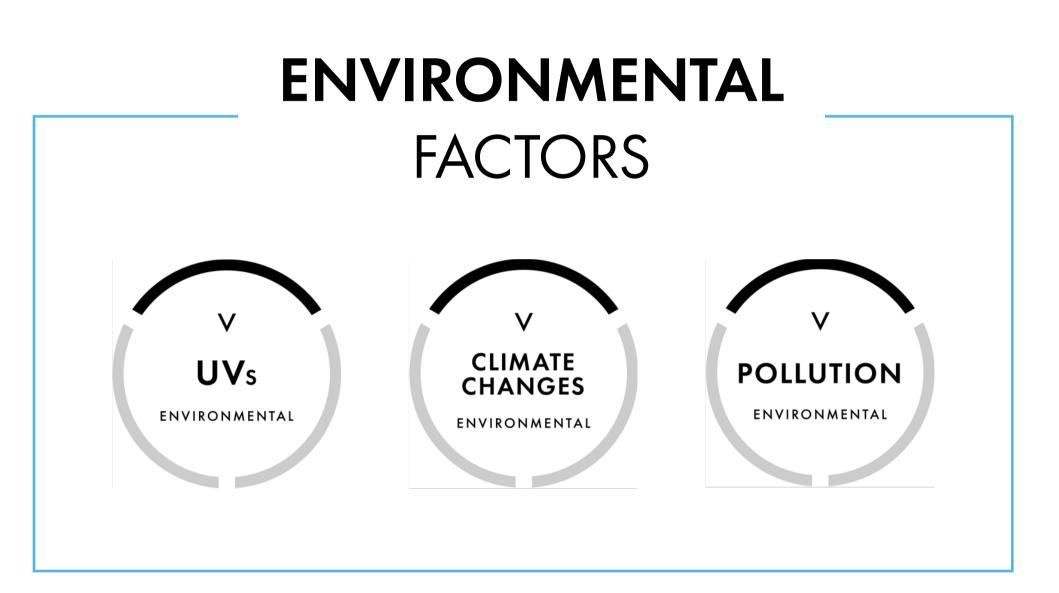
"THE EXPOSOME IS THE CUMULATIVE MEASURE OF ENVIRONMENTAL INFLUENCES, INCLUDING LIFESTYLE AND BIOLOGICAL RESPONSES ASSOCIATED WITH LIFE."

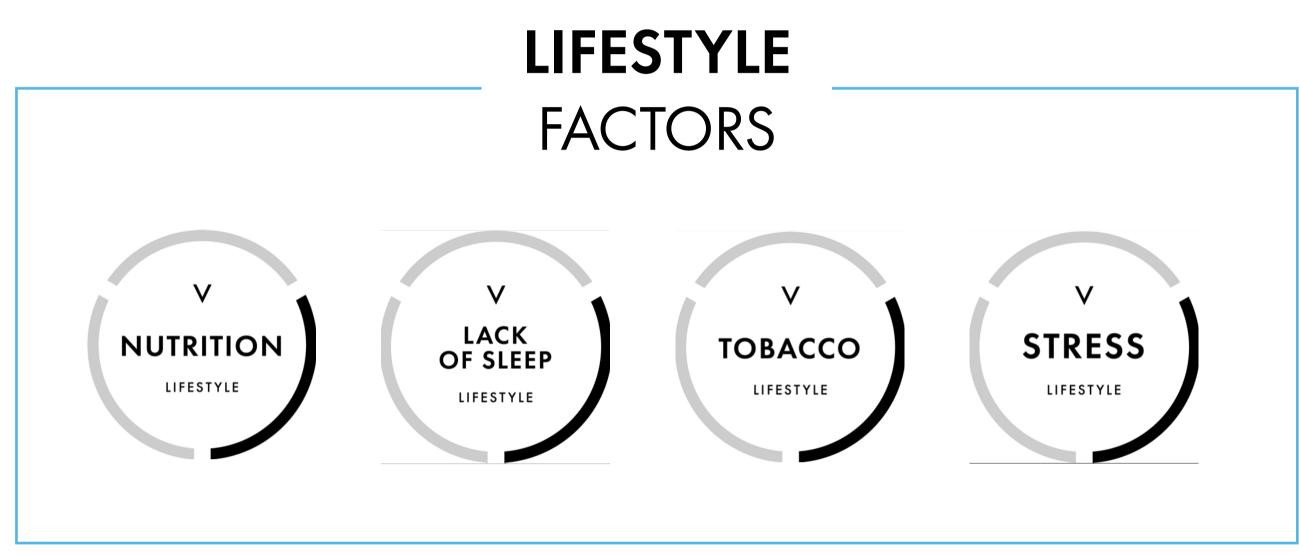
- DR. CHRISTOPHER WILD, 2005¹

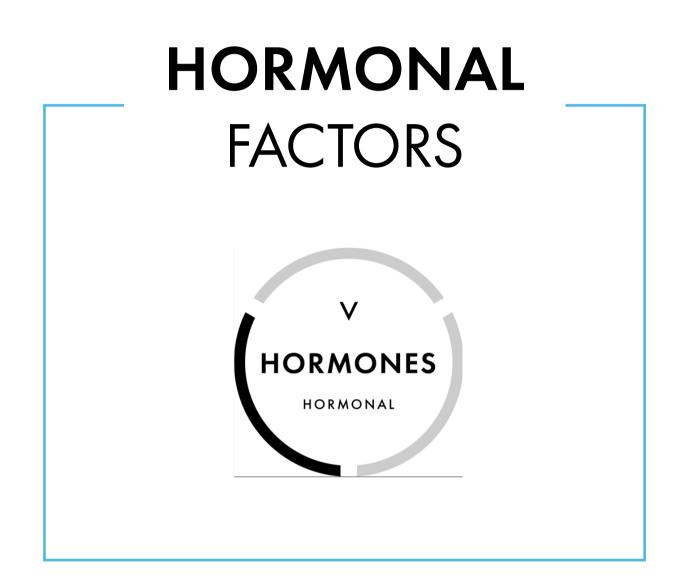
Being the barrier between the body & the external world, skin is the first organ impacted.

Vichy Laboratories are the first to have studied the scientific data on the impact of exposome on skin aging through a consensus paper "The skin aging exposome"². This consensus paper is the 1st in scientific literature.

EXPOSOME FACTORS







IMPACT OF THE EXPOSOME

ON THE SKIN BARRIER²

BIOLOGICALLY CLINICALLY

PHYSICAL BARRIER

- Decrease of corneocyte adhesion
- Alteration of intercellular matrix quality

ANTIMICROBIAL BARRIER

- Imbalance of pH
- Decrease of immune defenses
- Impact of desquamation process

ANTIOXIDANT BARRIER

Overproduction of oxidative stress

HYDRIC BARRIER

- Decrease of NMF components synthesis
- Decrease of cellular adhesion
- Increase of TEWL

PHOTOPROTECTIVE BARRIER

- Decrease epidermis thickness
- Impact on skin integrity
- Decrease of melanocytes number
- Impact on desquamation process







REDNESS





VICHY VOLCANIC MINERALIZING WATER EFFICACY PROVEN IN 20+ STUDIES

STUDIES AND EXPERTISE

MILLION YEARS AGO

1861

1931

FROM **1995** TO **2003**

FROM **2003** TO **2017**

2018

2019

2020

 ORIGIN OF THE **VICHY VOLCANIC WATER**

DECLARATION **OF PUBLIC INTEREST:** Beneficial health properties recognised by the Academy of Medicine

Dr Haller discovers the healing properties on skin and created Vichy brand

- 1st clinical study on pathological skins
- 1st publication: Effect of Vichy Volcanic Water on catalase activity
- 2nd publication: Soothing effect of Vichy Volcanic Water after glycolic acid peelings
- 3rd publication: Effect of Vichy Volcanic Water on inflammation induced by Substance P

- 13 scientific
- studies - TEWL
- Transcriptomic
- Skin regeneration
- Skin sensitivity - Skin tolerance
- More than 250

women involved

- Skin comfort, etc.
- 4th publication Vichy Volcanic Water and skin ageing exposome
- 3 scientific studies - Keratinocytes
- differenciation (TGK, filaggrin, involucrin), and Tight junctions (claudin-1 and ZO-1)
- Skin barrier recovery versus Avène
- Soothing sensitive skin + hydration
- **Vichy Volcanic** Water alone + in association with Vichy Volcanic probiotic extract
- Protection of Langerhans cells after UV exposure
- AMP synthesis
- Regulation of the immune response to inflammation: IL8/ IL10
- Phagocytose
- Migration: recruitment of PNM
- 5th publication: Vichy Volcanic Water strengthens the skin

HIGH MINERALITY

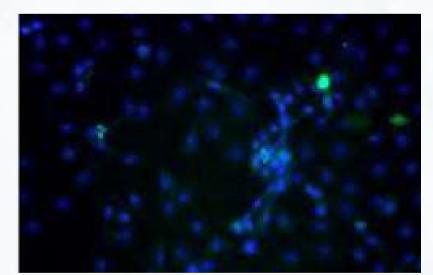
COMPOSITION	ACTION
4,818.6 mg/l	Buffer effect
970 μg/l	Healing
165.6 mg/l	Protection
810 µg/l	Cells oxygenation
7.7 mg/l	Antioxidant
5.2 mg/l	Anti-inflammatory
12.1 mg/l	Stimulates regeneration
	4,818.6 mg/l 970 μg/l 165.6 mg/l 810 μg/l 7.7 mg/l 5.2 mg/l

Manganese	200 μg/l	Antioxidant
Orthophosphates	210 µg/l	Energy synthesis
Potassium	103.6 mg/l	Skin hydration
Silicon	11.8 mg/l	Stimulates regeneration
Sodium	1,862.9 mg/l	Regulation of cells hydration
Strontium	1.6 mg/l	Anti-inflammatory
Sulphur	182.4 mg/l	Organism detoxification
Ammonium	390 µg/l	Amino-acids synthesis

SKIN BARRIER STRENGTHNER

STIMULATES KERATINOCYTE DIFFERENTIATION MARKERS¹

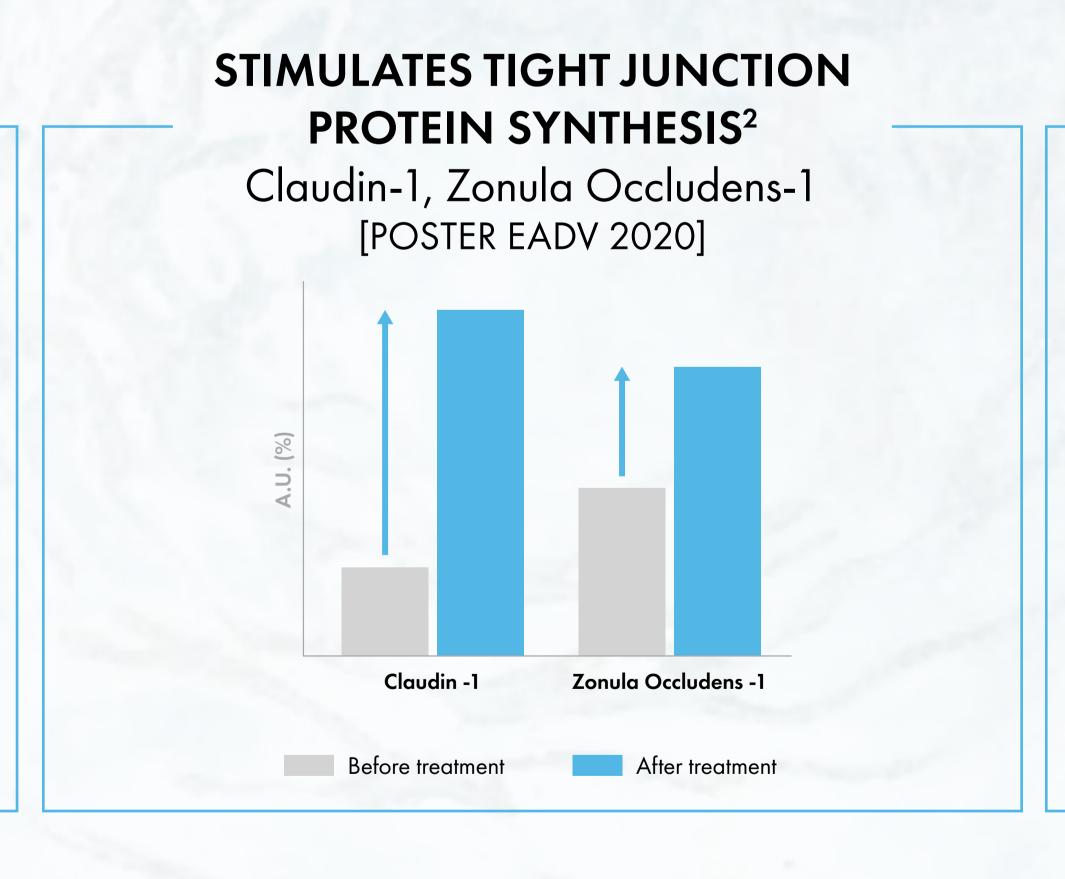
Transglutaminase, filaggrin and involucrin



Control epidermis

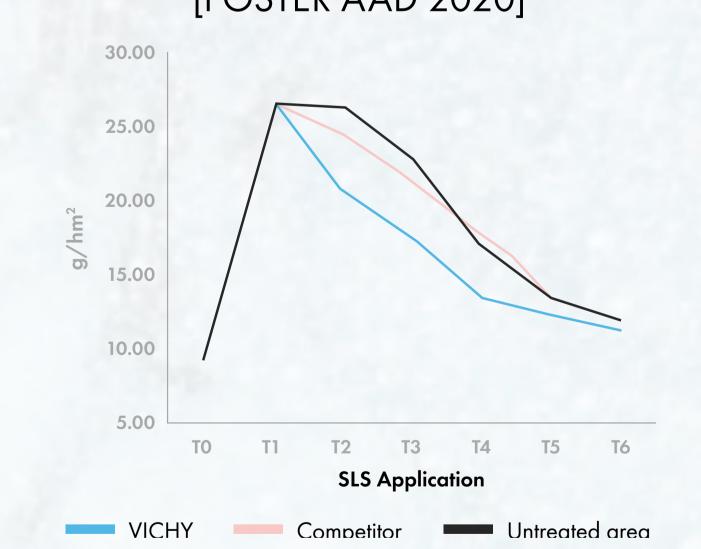
Epidermis treated wih Vichy Volcanic Mineralizing Water

Increased expression of Filaggrin, a keratinocyte differentiation marker

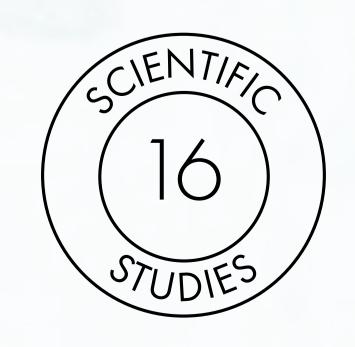




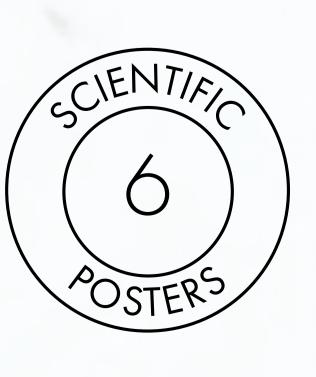
Skin barrier repair efficacy vs competitor [POSTER AAD 2020]



REGENERATES SKIN INTEGRITY - REPAIRS AND ACCELERATES SKIN RECOVERY - STRENGTHENS ANTIOXIDANT DEFENSES - SOOTHES







1. Nielsen, M. et al. Vichy Volcanic Mineralizing Water stimulates epidermal keratinocyte differentiation and tight junction synthesis. Poster at EADV 2020. 2. Berardesca, E. et al. Effectiveness of mineralizing water in skin barrier recovery after skin irritation. Poster at AAD 2020.



EFFICACY TESTS

TESTS CONDUCTED	RESULTS		
Corneometer (Caucasian & Asian skin)	THE FORMULA HAS A MOISTURISING EFFECT DURING 24 HOURS		
Comparative hydration vs Vichy Water	STATISTICALLY SIGNIFICANT INCREASE OF THE MOISTURISING EFFECT		
Dermal Torquemeter (Caucasian skin)	SKIN TONICITY AND FIRMNESS ARE IMPROVED		
TEWL Trans-epidermal water loss - Skin barrier function (Caucasian & Asian skin)	THE PROTECTIVE EFFECT OF THE SKIN BARRIER IS IMPROVED		
TEWL after stripping - Skin barrier recovery (Asian skin)	SKIN BARRIER RECOVERY IS IMPROVED		
Skin barrier recovery – Skin barrier function – Caucasian skin	M89 SIGNIFICANTLY HELPS TO RESTORE THE SKIN BARRIER FROM THIRD DAY AFTER DAMAGE		
Cosmetoclinical test (Caucasian skin)	REFINED SKIN TEXTURE, REVITALISED, TONED, AND HEALTHIER-LOOKING SKIN AFTER 4 WEEKS		
Cosmetoclinical test with exposome questionnaire (Asian skin)	IMPROVED RADIANCE, IMPROVED HOMOGENEITY, PLUMP AND SKIN SMOOTHNESS AFTER 4 WEEKS		
Consumer test (All phototypes and multi-gender)	HEALTHY-LOOKING, COMFORTABLE AND SOFTER SKIN AFTER 4 WEEK		

SAFETY TESTS



TESTED UNDER DERMATOLOGICAL CONTROL



TESTED UNDER **OPHTALMOLOGICAL** CONTROL



TESTED ON SENSITIVE SKIN



HYPOALLERGENIC (HRIPT: HUMAN REPEAT INSULT PATCH TEST)



NON COMEDOGENIC NON COMEDOGENIC



3.927 PATIENTS | 20 SCIENTIFIC STUDIES | 325 DERMATOLOGISTS | 22 COUNTRIES

6 FACIAL DERMATOSES | 8 AESTHETIC PROCEDURES | ALL PHOTOTYPES | MEN & WOMEN

In vivo efficacy & safety studies in Asian and Caucasian populations showing skin barrier strengthening, hydration efficacy and protection against exposome factors with highest safety standards¹⁻⁹

TESTED EFFICACY AND SAFETY

CONCLUSIONS

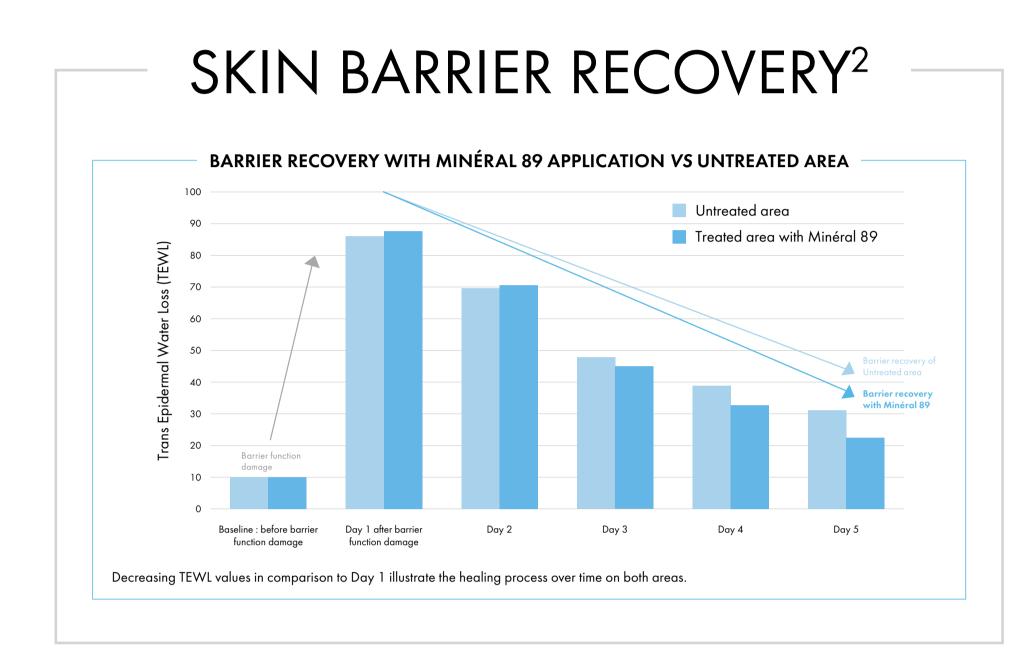
CIN BARRIER

SKIN BARRIER RECOVERY

- CAUCASIAN WOMEN¹ (N = 21)
- ASIAN WOMEN 2 (N = 24)

SKIN BARRIER PROTECTION

- CAUCASIAN WOMEN 3 (N = 22)
- ASIAN WOMEN 3 (N = 24)



SKIN BARRIER PROTECTION³

TEWL REDUCTION BY

14.51%

ICHY, HYDRATION, FIRMNESS

TONICITY & FIRMNESS

 $N = 40 \text{ WOMEN}^4$

HYDRATION

 $N = 24 \text{ WOMEN}^5$

TONICITY IMPROVED BY

11.4%

TREATED VS
UNTREATED AREA4

LONG LASTING HYDRATION

1 TO 24H

AFTER ONE SINGLE
APPLICATION^{4,5}

SAFETY

CLINICALLY-PROVEN SAFETY ON 210 SUBJECTS⁶⁻⁸









NON-SENSITISING
NON-IRRITANT⁹



1. In vivo efficacy study – skin barrier recovery: 21 Caucasian women applied MINÉRAL 89 DAILY BOOSTER twice a day on inner forearms during 5 days and skin barrier recovery after damage induced by stripping was measured vs an untreated area. 2. In vivo efficacy study – skin barrier recovery: 24 Asian women applied MINÉRAL 89 DAILY BOOSTER in one single application on inner forearms and skin barrier protection 24 Caucasian and 24 Asian women applied MINÉRAL 89 DAILY BOOSTER in one single application on inner forearms and skin barrier protection was measured vs an untreated area. 4. In vivo efficacy study – tonicity and firmness: 40 women applied MINÉRAL 89 DAILY BOOSTER in one single application on inner forearms and tonicity, and firmness were measured vs an untreated area. 5. In vivo efficacy study – hydration: 24 women applied MINÉRAL 89 DAILY BOOSTER in one single application on inner forearm and hydration was measured vs an untreated area. 6. In vivo safety study – test under dermatological control: 53 women with sensitive skin applied MINÉRAL 89 DAILY BOOSTER twice a day on face, eyes and lips. 7. In vivo safety study – test under ophthalmological control: 50 women with sensitive skin, 20 sensitive eyes, 20 normal eyes and 10 lens contact wearers, applied MINÉRAL 89 DAILY BOOSTER twice a day on face, eyes and lips. 8. In vivo safety study – human repeat insult patch test: 107 healthy subjects applied MINÉRAL 89 DAILY BOOSTER on the back during 6 weeks.

MINERAL 89 DAILY BOOSTER **V**



TO THE FULL STUDIES PUBLICATION

SKIN BARRIER RECOVERY IN CAUCASIAN WOMEN

SUBJECTS

21 (Caucasian women, 35 – 65 years old)

EVALUATION METHOD

Trans epidermal water loss (tewametry)

USE

The product was applied twice a day in the morning and in the evening on the inner side of one volar forearm during 5 days according to a left right randomisation. The other forearm was left untreated.

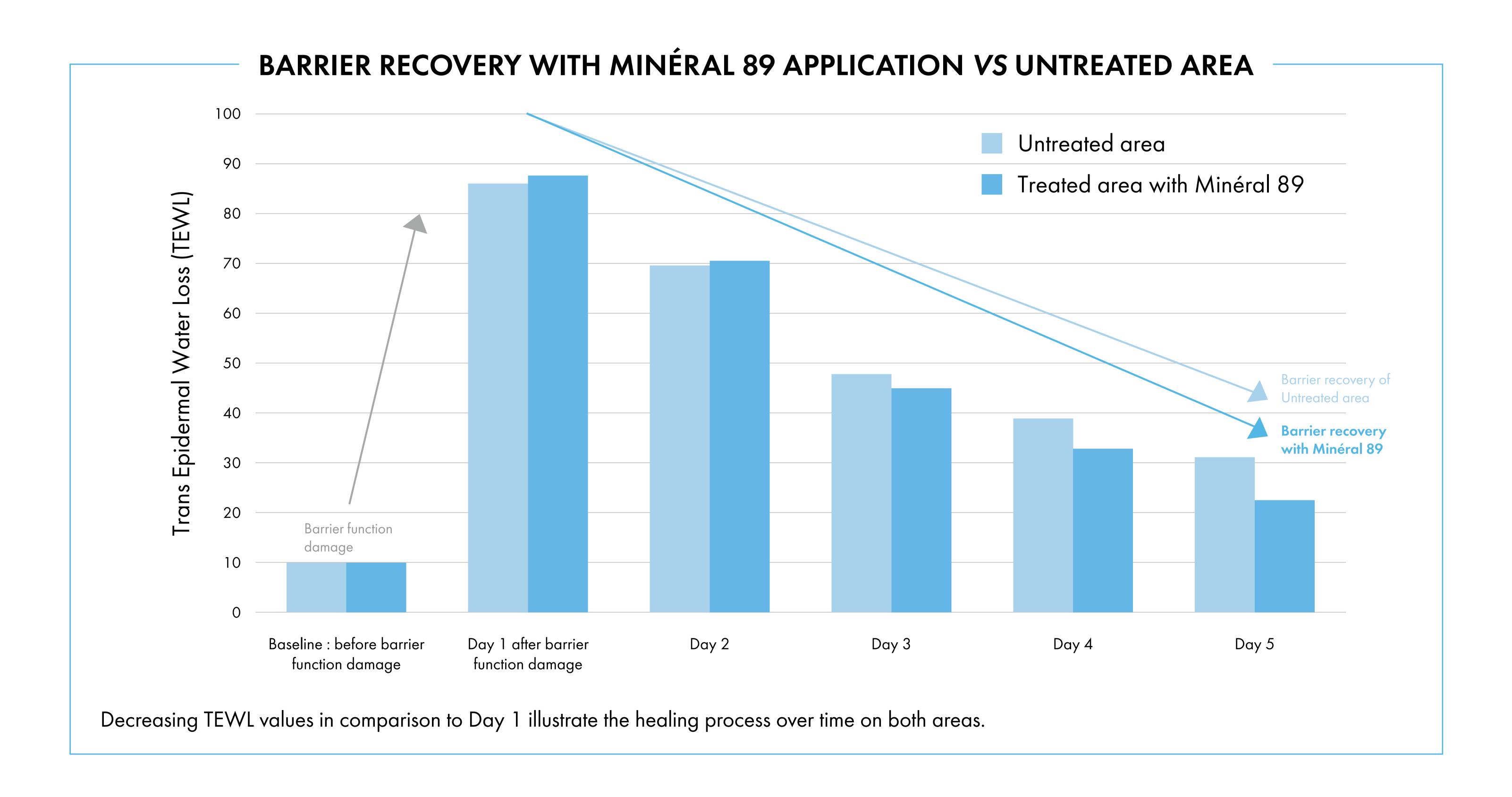
BARRIER FUNCTION DAMAGE BY TAPE STRIPPING WITH D-SQUAMES

Barrier tape stripping was **performed on both test areas** (treated and untreated). The D-squames were shortly sticked to the skin and removed. This was repeated until stratum lucidum becomes visible (10 to 20 tapes, depending on the individual condition of skin).

TIME EVALUATION

The assessments were done on D1 before and after barrier function damage and on D2, D3, D4 and D5.

RESULTS



MINÉRAL 89 DAILY BOOSTER SHOWS SKIN BARRIER REPAIR EFFECACY IN CAUCASIAN WOMEN,

with a statistically significant contribution to **restore the skin barrier** from **Day 3** after damage induced by stripping compared to the untreated area.

SKIN BARRIER RECOVERY IN ASIAN WOMEN

SUBJECTS

24 (Asian women, from 18 to 65 years old) with a TEWL value \geq 6 g/m²h on the anterior side of the forearms before stripping, and with a TEWL value \geq 20 g/m²h on the anterior side of the forearms after stripping.

USE

One standard application (2mg/cm²)

EVALUATION METHOD

Tewameter at TO before stripping (TO), TO after stripping (Tstripping), T1h, T2h, T4h and T6h after application of the product post-stripping.)

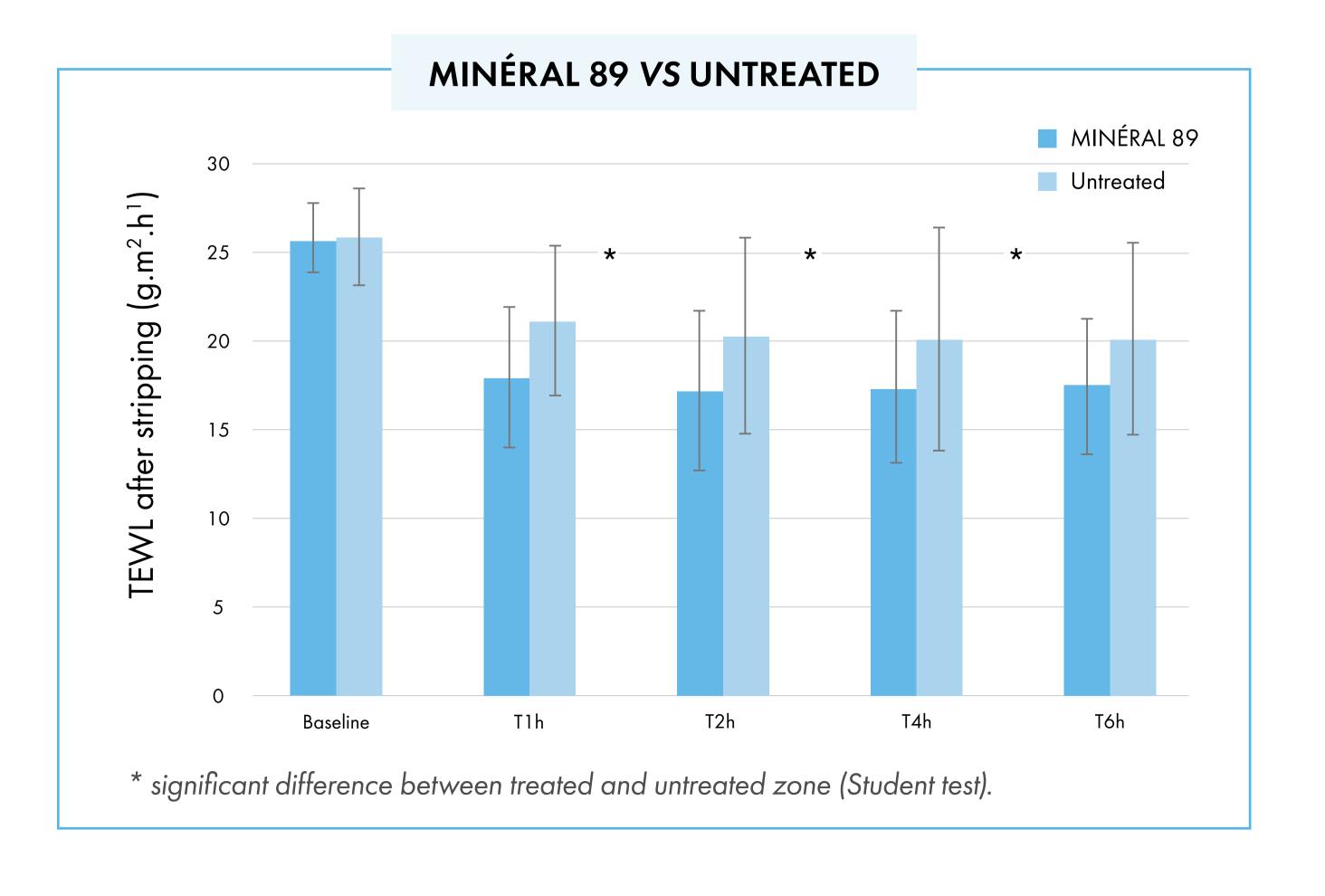
TIME EVALUATION

TO-T1H

RESULTS

- Mean % change from baseline post-tape strip = (Tn-Tstripping)/Tstripping X 100
- % Recovery = ((Tn-Tstripping)/(Tstripping-TO)) X 100
- % Natural recovery improvement = (% Recovery treated % Recovery untreated) / (% Recovery untreated)

N=24	Site	Mean (± SD)	Mean Change from baseline post- stripping (± SD)	Mean % Change from baseline post- stripping p-value (from Baseline post-stripping)	Significance (Mean Change Treated VS Untreated)	% Recovery	% Natural recovery improve-ment
	M89 (pre- stripping)	8,8 ± 2,6 NS (p=0,1030)					
	Untreated (pre- stripping)	8,4 ± 2,2					
Baseline	M89 (post- stripping)	21,7 ± 1,7					
	Untreated (post- stripping)	NS (p=0,7937) 21,8 ± 2,3					
1 L	M89	15,1 ± 3,3	-6,6 ± 2,6	-30,4%	S (p<0,0001)	-51,4%	71,1%
1 hour	Untreated	17,8 ± 3,5	-4,0 ± 2,9	-18,5%		-30,0%	
2 h	M89	14,5± 3,8	-7,2 ± 3,0	-33,0%	S (p<0,0001)	-55,7%	41 0 0/
2 hours	Untreated	17,1 ± 4,6	-4,6 ± 3,6	21,3%		-34,6%	61,0%
4 L	M89	14,6 ± 3,6	-7,1 ± 3,1	-32,7%	S (p=0,0056) -36,5%	-55,2%	51 4 0/
4 hours	Untreated	16,9 ± 5,3	-4,9 ± 4,2	-22,5%		51,4%	
4 L a a a a a a a a a a	M89	14,7 ± 3,2	-7,0 ± 2,7	-32,3%	S	-54,6%	50.0 9/
6 hours	Untreated	17,0 ± 4,5	-4,8 ± 3,7	-22,0%	(p=0,0038) -35,79	-35,7%	52,9%



MINÉRAL 89 DAILY BOOSTER SHOWS SKIN BARRIER REPAIR EFFICACY IN ASIAN POPULATION,

with a statistically significant reduction in TEWL after forearm stripping, compared to an untreated area, 1H after a single application.

SKIN BARRIER PROTECTION IN CAUCASIAN AND ASIAN WOMEN

CAUCASIAN WOMEN

SUBJECTS

24 (CAUCASIAN WOMEN, 18 – 65 YEARS OLD)

EVALUATION METHOD

TRANS EPIDERMAL WATER LOSS (TEWAMETRY)

USE

SINGLE APPLICATION ON ONE FOREARM VERSUS AN UNTREATED AREA

TIME EVALUATION

TO-T1H

RESULTS

TEWL	T1 hour - T0
% evolution treated area versus untreated area	-10.1% (S)

ASIAN WOMEN

SUBJECTS

24 (ASIAN WOMEN, 18 - 65 YEARS OLD) WITH A TEWL VALUE ≥ 6 G/M²/H ON THE ANTERIOR SIDE OF THE FOREARMS

EVALUATION METHOD

TRANS EPIDERMAL WATER LOSS (TEWAMETRY)

USE

SINGLE APPLICATION ON ONE FOREARM VERSUS AN UNTREATED AREA (2 MG/CM²)

TIME EVALUATION

TO-T1H

RESULTS

TEWL	T1 hour - T0
% evolution treated area versus untreated area	-14.51% (S)



MINÉRAL 89 DAILY BOOSTER PROTECTS SKIN BARRIER FUNCTION IN ASIAN AND CAUCASIAN POPULATION,

with a statistically significant reduction in TEWL 1H after a single application:

- -10.1% vs untreated area in Caucasian women
- -14.5% vs untreated area in Asian women

VICHY LABORATOIRES

In vivo efficacy study – skin barrier protection 24 Caucasian and 24 Asian women applied MINÉRAL 89 DAILY BOOSTER in one single application on inner forearms and skin barrier protection was measured vs an untreated area.



TONICITY AND FIRMNESS

SUBJECTS

40 (Caucasian women, presenting problems of cutaneous tonicity, 40-65 years old)

EVALUATION METHOD

Dermal torquemeter. Analysed parameters: Immediate tonicity (Ur); Elasticity/Firmness (Ur/Ue).

USE

Single application on inner forearms versus untreated site.

TIME EVALUATION

T0-T4H

RESULTS

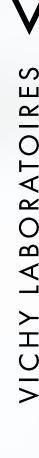
DTM	Tone Ur	Elasticity/firmness Ur/Ue
Treated area non treated comparison % relative difference	11.4 % (S)	7.0 % (S)



MINÉRAL 89 DAILY BOOSTER SIGNIFICANTLY IMPROVES TONICITY AND FIRMNESS,

with a statistically significant improvement of the biomechanical properties of the skin, compared to an untreated area, **4H** after **a single application**.

VICHY LABORATO



HYDRATION

SUBJECTS

24 (women, 18 – 65 years old)

EVALUATION METHOD

Hydration measurements with Corneometer® CM 825 PC

USE

Single application on inner forearms versus an untreated area

TIME EVALUATION

TO-T4H-T8H-24H

RESULTS

Hydration	T4 hours - T0	T8 hours - T0	T24 hours - T0
Mean percentage of improvement	+24.3 % (5)	+21.3% (5)	+8.9% (5)

MINÉRAL 89 DAILY BOOSTER HAS A RAPID MOISTURISING EFFICACY

statistically significant on the upper layers of the epidermis, at 4H, 8H and 24H after a single application.

COMPARATIVE HYDRATION VS VICHY WATER

SUBJECTS

24 (women, 18 – 65 years old)

EVALUATION METHOD

Hydration measurements with Corneometer® CM 825 PC

USE

Single application on inner forearms versus an untreated area

TIME EVALUATION

TO-T1H

RESULTS

Hydration	T1 hour - T0
MINÉRAL 89	+15.1% (S) vs control
Vichy water	-3.5% (S) vs control
Hydration M89 vs Vichy Water	+18.6%

MINÉRAL 89 DAILY BOOSTER HAS AN IMMEDIATE MOISTURISING EFFECT, 18.6% MORE POWERFUL VS VICHY WATER ALONE,

with a statistically significant increase 1H after a single application.

USE TEST UNDER DERMATOLOGICAL CONTROL¹

SUBJECTS

53 Chinese women, 26-62 years old, all skin types, 100% sensitive skin.

DURATION OF THE TEST

4 weeks

USE

Twice a day, in the morning, on face, eyes and lips

RESULTS

THE FORMULA IS VERY WELL TOLERATED.

USE TEST UNDER OPTHALMOLOGICAL CONTROL²

SUBJECTS

50 Caucasian women, 18-65 years old, all skin types, 100% sensitive skin, 20 sensitive eyes, 20 normal eyes, 10 lens contact wearers.

DURATION OF THE TEST

4 weeks

USE

Twice a day, in the morning, on face, eyes and lips

RESULTS

THE FORMULA IS WELL TOLERATED.

HRIPT: HUMAN REPEAT INSULT PATCH TEST³

SUBJECTS

107 healthy subjects. Zone of application: back.

DURATION OF THE TEST

6 weeks

RESULTS

THE FORMULA IS **NON-SENSITISING NON-IRRITANT.**

MINÉRAL 89 DAILY BOOSTER HAS A CLINICALLY-PROVEN SAFETY,

tested under dermatological and ophthalmological control on 210 healthy volunteers, including subjects with sensitive skin.

- 1. In vivo safety study test under dermatological control: 53 women with sensitive skin applied MINERAL 89 DAILY BOOSTER twice a day on face, eyes and lips.
- 2. In vivo safety study test under ophthalmological control: 50 women with sensitive skin, 20 sensitive eyes, 20 normal eyes and 10 lens contact wearers, applied MINÉRAL 89 DAILY BOOSTER twice a day on face, eyes and lips.
- 3. In vivo safety study human repeat insult patch test: 107 healthy subjects applied MINÉRAL 89 DAILY BOOSTER on the back during 6 weeks.





3.927 PATIENTS | 20 SCIENTIFIC STUDIES | 325 DERMATOLOGISTS | 22 COUNTRIES

6 FACIAL DERMATOSES | 8 AESTHETIC PROCEDURES | ALL PHOTOTYPES | MEN & WOMEN

In vivo efficacy studies showing boosting anti-ageing benefits in Caucasian and Asian women and subjects of all photototypes¹⁻³

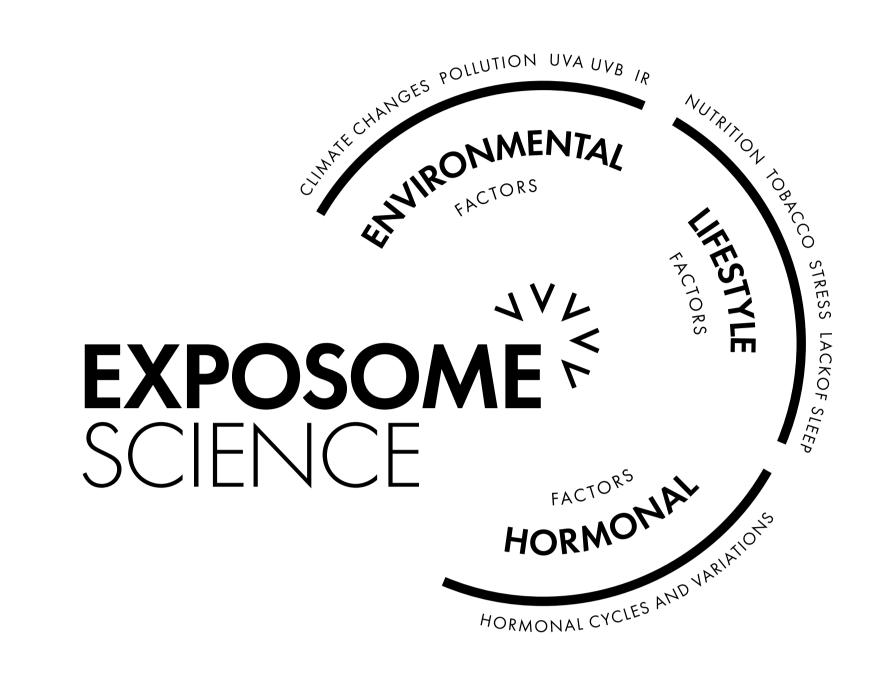
TESTED EFFICACY

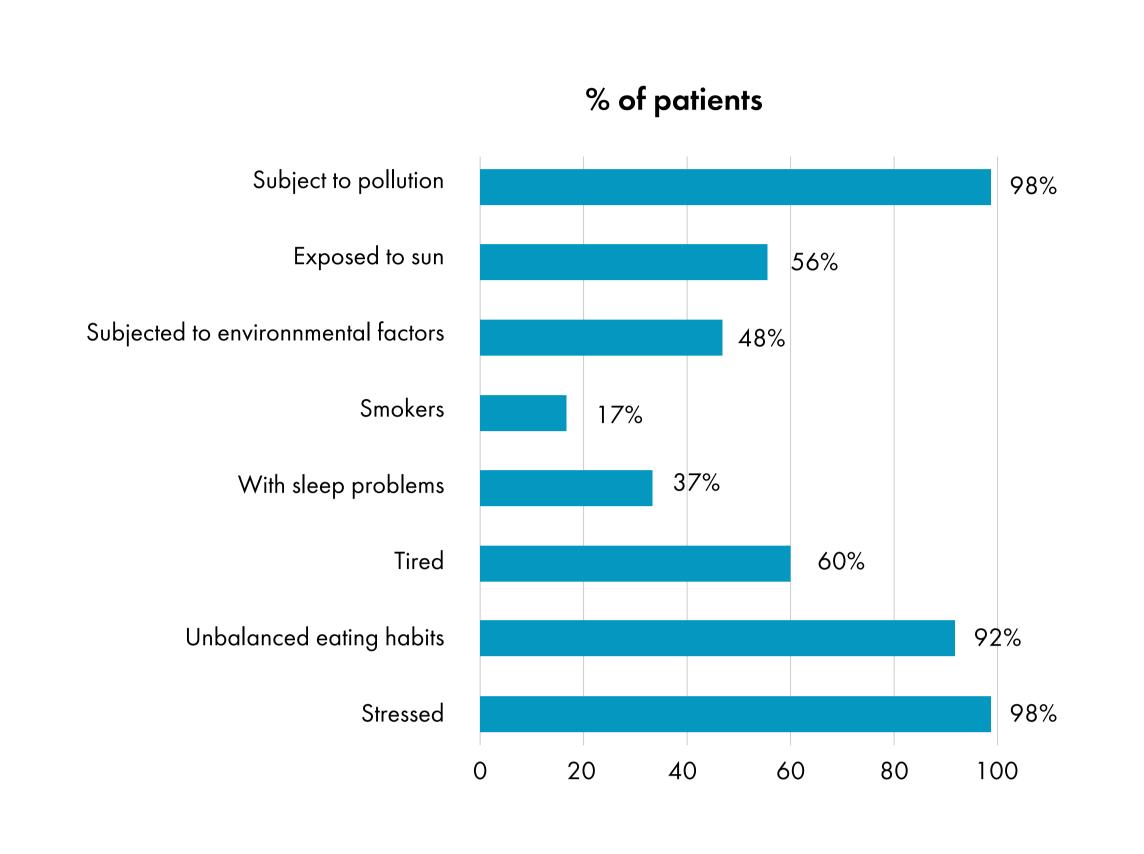
2 COSMETOCLINICAL TESTS

52 ASIAN¹ & 48 CAUCASIAN WOMEN² WITH SENSITIVE SKIN

1 CONSUMER TEST

159 SUBJECTS, MEN AND WOMEN, ALL PHOTOTYPES³





CONCLUSIONS

SIGNIFICANT IMPROVEMENT AFTER 4 WEEKS

	ASIAN WOMEN ¹			
26%			RADIANCE	
20%		НОІ	MOGENEITY	
21%		PLU	IMPNESS	
20%		SMC	OOTHNESS	

	CA	U	CA	SI	A۱	1 V	VC	MEN ²	
.5%	%				R	AC	ΝA	NCE	
.7%	%							PLUMPNE	ESS
.7%	%							PLUMPNE	S

N	MEN & WOMEN ³
14%	FIRMNESS
9%	TONICITY

HIGH SUBJECTS SATISFACTION

100% PLEASANT PRODUCT

ASIAN WOMEN¹

SENSATION 85% SENSATION OF FRESHNESS

CAUCASIAN WOMEN²

MEN & WOMEN³

- 1. In vivo efficacy study cosmetoclinic asian skin: 52 Chinese women applied MINÉRAL 89 DAILY BOOSTER twice daily on face, eyes and lips contour, during 4 weeks. Evaluation was performed by dermatologist at D0 and D28 and through self-assessment after 1st application, at 1 week and 4 weeks.
- 2. In vivo efficacy study cosmetoclinic caucasian skin: 48 Caucasian women applied MINÉRAL 89 DAILY BOOSTER twice daily on face, eyes and lips contour, during 4 weeks. Evaluation was performed by dermatologist and through self-assessment at baseline and after 4 weeks.
- 3. Consumer tests on all phototypes: 159 patients (120 women and 39 men) applied MINÉRAL 89 DAILY BOOSTER twice daily on face, eyes and lips contour, during 4 weeks. Evaluation was performed through self-assessment immediately after 1st application, and after 7, 21 and 28 days.



MINERAL 89 DAILY BOOSTER V



L'ORÉAL DERMATOLOGICAL BEAUTY



COSMETOCLINIC ASIAN SKIN (1/3)

OBJECTIVE

Evaluate the efficacy of MINÉRAL 89 by a cosmetoclinical test under dermatological control on Asian women with sensitive skin after repeated application (twice a day on the face) during 4 weeks.

SUBJECTS

52 Chinese women, 26-62 years old, with all skin type presenting a sensitive skin (declarative) and:

- A dull complexion (grade ≥ 4 on a 10-point scale)
- A non-homogeneous complexion (grade ≥ 4 on a 10-point scale)
- A lack of plumpness (grade ≥ 4 on a 10-point scale)
- A lack of smoothness (grade ≥ 4 on a 10-point scale)

EXPOSOME QUESTIONNAIRE (big and bold like other titles) - with blue line on the left side

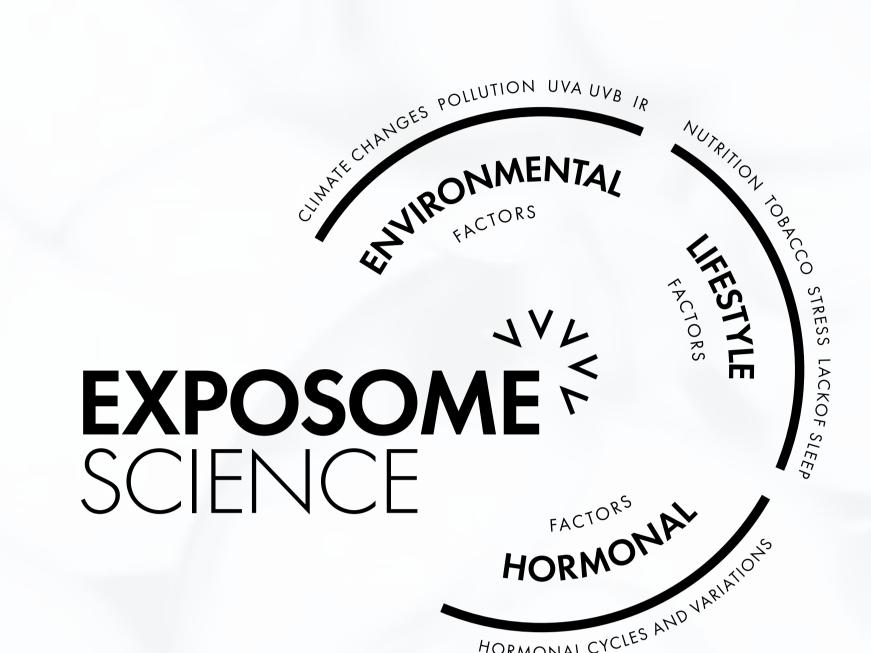
- 98% were subjected to pollution
- 56% exposed to sun

98% felt stressed

- 48% subjected to environmental factors
- 92% eating habits were not balanced
- 37% had sleep problems

60% felt tired

• 17% were smokers



PROTOCOL

The product was applied twice a day (morning and evening) on the cleansed and dried face skin (eyes and lips contour included) by slight massages until complete penetration, before their usual essence and/or care products during 4 weeks.

EVALUATION

- Specific questionnaire for the inclusion on DO
- Clinical scoring by the dermatologist of the radiance and homogeneity of the complexion, and of the smoothness and plumpness of skin on D0 and D28 days
- Self-assessments according to 5 points questionnaires (agree, somewhat agree, neither agree nor disagree, somewhat disagree disagree) immediately after the 1st application of the product, at T1 week and T4 weeks.

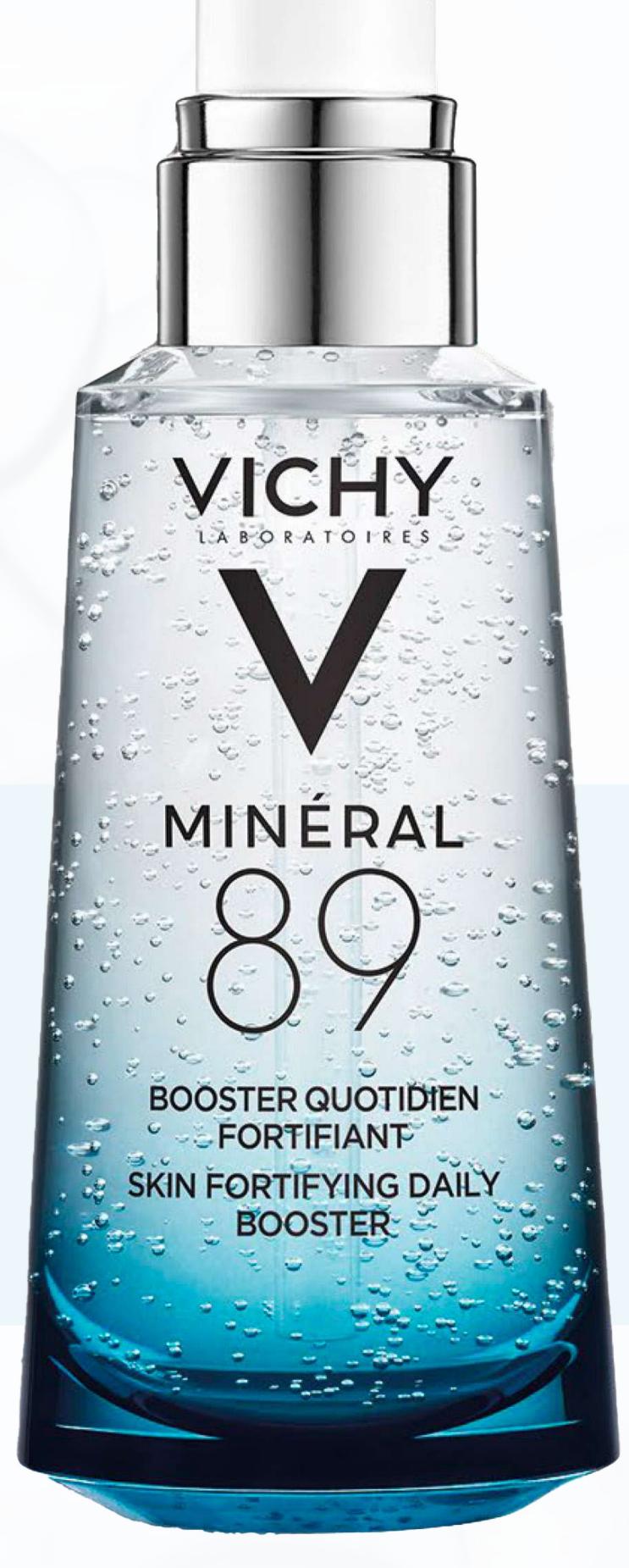
RESULTS

Clinical evaluation by the dermatologist investigator:

	Variation percentage (vs initial values)		
DULL COMPLEXION	-26%		
NON-HOMOGENEOUS COMPLEXION	-20%		
LACK OF PLUMPNESS	-21%		
LACK OF SMOOTHNESS	-20%		

MINÉRAL 89 DAILY BOOSTER
IMPROVES RADIANCE,
HOMOGENEITY, SMOOTHNESS AND
PLUMPED ASPECT OF THE SKIN,

with statistically significant results after 4 weeks.



COSMETOCLINIC ASIAN SKIN (2/3)

SELF-ASSESSMENTS ACCORDING TO AN EFFICACY QUESTIONNAIRE

EFFICACY (5 POINT SCALE - ANSEWERS GIVEN BY "SOMEWHAT AGREE" TO "AGREE") N=52	TIMM*	D28
The skin seems more luminous	75%	94%
The skin seems smoother	85%	92%
Eyes contours skin feels more hydrated	83%	92%
The product gives a sensation of freshness upon application	85%	90%
The skin seems softer	77%	88%
Eyes contours skin appears suppler	77%	88%
The skin seems healthier	81%	87%
This product helps to prepare the skin to usual routine	81%	87%
The skin look more translucent	77%	87%
The skin seems moisturized as watery	85%	81%
The skin seems suppler	71%	81%

MINÉRAL 89 DAILY BOOSTER'S IS PERCEIVED EFFICACEOUS IMMEDIATELY AND 28 DAYS AFTER USE,

as they report a high percentage of satisfaction with the effect on their skin:

PREPARES SKIN FOR USUAL ROUTINE HEALTHIER

CLEARER SMOOTHER FRESHNESS SENSATION MORE LUMINOUS SMOOTHER MORE TRANSLUCENT

EYES CONTOURS FEEL MORE HYDRATED

Timm*: immediately after the 1st application of the product

COSMETOCLINIC ASIAN SKIN (3/3)

EVALUATION OF THE COSMETIC QUALITIES

ITEMS - FACE CARE 688854 93 (% AGREE + SOMEWHAT AGREE) N=52	D28
Globally, the product is pleasant	100%
The texture of the product feels lightweight on skin	96%
The product is easy to apply	96%
The product is gentle for the skin	96%
The product is quickly absorbed	94%
The product leaves the skin comfortable	92%
The product is suitable for my skin type	92%
The texture of the product is pleasant	88%
The product doesn't leave the skin greasy	88%
The product doesn't leave the skin shiny	88%
The product is suitable for me	88%
The product doesn't leave the skin sticky	85%



MINÉRAL 89 DAILY BOOSTER IS PLEASANT FOR ALL USERS, THANKS TO ITS COSMETIC QUALITIES

as they report a high percentage of satisfaction with the effect on their skin:

QUICKLY ABSORBED GENTLE FOR THE SKIN NO SHINY SKIN

SUITABLE PLEASANT NO STICKY SKIN SENSATION OF FRESHNESS FEELS LIGHTWEIGHT COMFORTABLE NO GREASY SKIN SKIN IS COMFORTABLE

COSMETOCLINIC CAUCASIAN SKIN (1/2)

OBJECTIVE

Evaluate the efficacy of MINÉRAL 89 by a cosmetoclinical test under dermatological control on Caucasian women with sensitive skin after repeated application (twice a day on the face) during 4 weeks.

SUBJECTS

48 Caucasian women, 35-50 years old, with all skin type, 100% sensitive skin (declarative) and:

- Presenting a lack of radiance complexion with an inclusion grade ≥4 on a scale from 0 to 9
- Presenting a lack of plump skin with an inclusion grade ≥4 on a scale from 0 to 9
- Living in urban area
- Usual user of care products for the face and lips

PROTOCOL

The product was applied twice a day (morning and evening) on a clean and dry skin be-fore the usual skin care routine for the face, eye contour ans lips during 28 consecutive days in conditions of normal use.

EVALUATION

- Clinical scoring by the dermatologist: plump and radiance at TO-baseline and T4weeks (n=48)
- Self-assessments according to 5 points questionnaires (agree, somewhat agree, neither agree nor disagree, somewhat disagree, disagree) immediately after the 1st application and after 4 weeks (n=48).

RESULTS

Clinical evaluation by the dermatologist investigator

Following signs were graded according to a 10 points scale:

- Radiance of the complexion (0= Very Radiant, 9= Not radiant at all) (visual, whole face)
- Plumped aspect (0= Very plumped, 9= Not plumed at all) (visual, whole face)

Clinical scores (n=48)	% of variation
LACK OF RADIANCE OF THE COMPLEXION	-5.48% (S)
LACK OF PLUMPED ASPECT	-8. 74 % (S)

MINÉRAL 89 DAILY BOOSTER IMPROVES RADIANCE AND PLUMPED ASPECT OF THE SKIN,

with statistically significant results after 4 weeks.

EVALUATION OF THE COSMETIC QUALITIES

EFFICACY (5 point scale - % «somewhat agree» and «agree»)	D28
The product gives a sensation of freshness upon application	85%
The skin seems softer	81%
This product helps to prepare the skin to your usual routine	79%
The skin seems clearer	77%
The skin seems smoother	77%
Skin looks suppler	75%
The skin seems healthier	75%
Skin texture seems refined	73%
Eyes contours skin appears suppler	73%

MINÉRAL 89 DAILY BOOSTER'S EFFICACY IS WELL PERCIEVED BY USERS,

as they report a high percentage of satisfaction with the effect on their skin:

Tone looked more even and revitalised- texture seemed refined - clearer - healthier - eyes contours feel more hydrated and suppler - lips seem moisturised, smoother and softer

COSMETOCLINIC CAUCASIAN SKIN (2/2)

EVALUATION OF THE COSMETIC QUALITIES & ACCEPTABILITY

COSMETIC QUALITIES (5 POINT SCALE - ANSWERS GIVEN BY «SOMEWHAT AGREE» TO «AGREE»)	D28
The application is homogenous/uniform	100%
The product is quickly absorbed	100%
The texture of the product is not oily when touching	98%
The product is easy to apply	98%
The texture of the product feels lightweight on skin	96%
The aspect of the product is pleasant	96%
The texture of the product is pleasant	90%
The texture of the product is not sticky when touching	90%
ACCEPTABILITY (5 POINT SCALE - ANSWERS GIVEN BY «SOMEWHAT AGREE» TO «AGREE»)	D28
The product is gentle for the skin	96%
The product is confortable	96%
The product doesnt leave the skin shiny	96%
The product does not leave the skin oily	96%
The product doesn't leave the skin sticky	94%
The product leaves the skin comfortable	92%
APPRAISAL (2 OR 5 POINT SCALE - ANSWERS GIVEN BY «SOMEWHAT AGREE» TO «AGREE» OR BY «YES*»)	D28
Overall, the product is pleasant	92%

MINÉRAL 89 DAILY BOOSTER IS PLEASANT FOR USERS, THANKS TO ITS COSMETIC QUALITIES

as they report a high percentage of satisfaction with the effect on their skin:

HOMOGENOUS APPLICATION GENTLE FOR THE SKIN LIGHT LIGHT

VICHY LABORATOIR

CONSUMER TEST ON ALL PHOTOTYPES, MEN AND WOMEN



SUBJECTS

159 (120 women and 39 men)

INCLUSION CRITERIA

Men and women, living in France, from 20 to 60 years old, all skin type, 100% of sensitive skin, all phototypes (35 phototypes I/II, 35 phototypes III/IV, 35 phototypes V/VI)

PROTOCOL

- Frequency of application: twice a day, in the morning and in the evening.
- Application sites: on face and on eye area.
- Instructions of use: "You will apply this care on your face and eye area twice a day, in the morning and in the evening, for 28 days, instead of your usual day & night care."

EVALUATION

Self-assessments according to 5 points questionnaires (agree, somewhat agree, neither agree nor disagree, somewhat disagree, disagree) up to T28 days.

RESULTS

Self-assessments according to a questionnaire:

EFFICACY	T28 days N=155
Skin feels comfortable	72.3%
Overall skin appearance looks improved	65.2%
Skin is healthy looking	74.2%
Skin feels softer	70.3%
Skin texture appears refined	65.2%
Skin complexion looks fresher	68.4%
Product gives a healthy glow	65.8%
Product helps prepare skin to your usual routine	72.3%
The skin seems toned	66.5%

COSMETICITY	T28 days N=1 <i>57</i>
This product applies easily, smoothly	92.4%
This product does not feel oily/greasy on the skin after application	93.6%
This product does not look shiny on the skin after application	91.1%
This product is quickly absorbed	86.0%
This product feels gentle on the skin	79.0%
This product feels lightweight on the skin	86.6%
This product is pleasant to use	78.3%
This product has a pleasant consistency	75.2%
This product is invisible on the skin	93.6%

MINÉRAL 89 DAILY BOOSTER EFFICACY AND SENSORIALITY ARE WELL PERCIEVED BY BOTH MEN AND WOMEN WITH ALL PHOTOTYPES

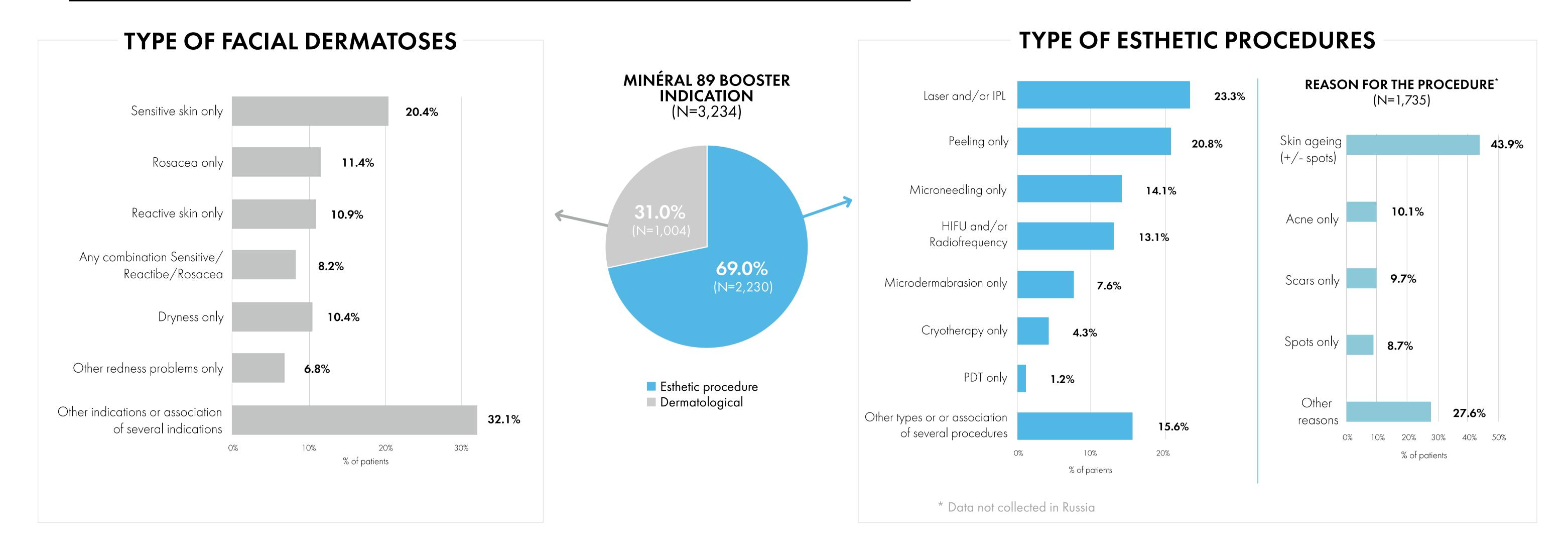
as they report a high percentage of satisfaction with the effect on their skin:

EASY AND SMOOTH APPLICATION COMFORTABLE NOT SHINY OR OLY PREPARES SKIN INVISIBLE ON SKIN HEALTHY LOOKING FOR USUAL ROUTINE

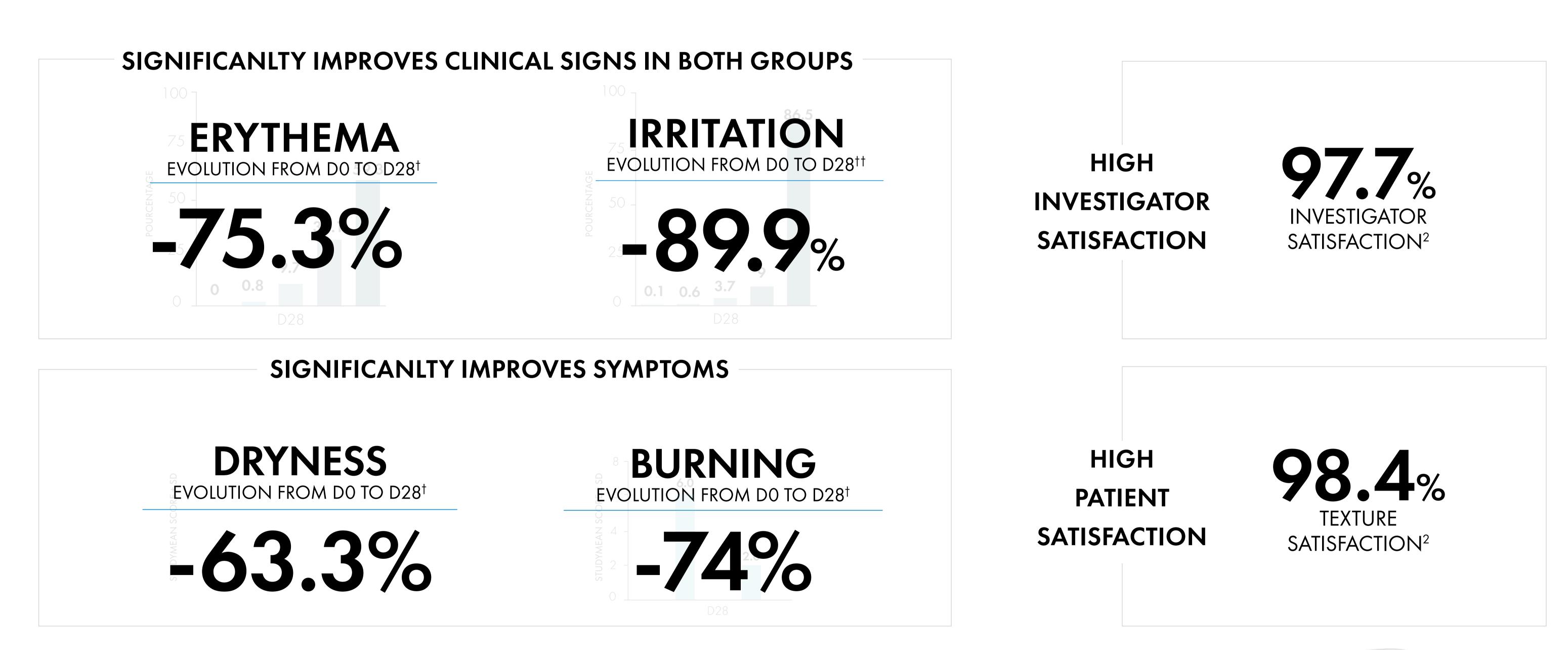
3.927 PATIENTS | 20 SCIENTIFIC STUDIES | 325 DERMATOLOGISTS | 22 COUNTRIES

6 FACIAL DERMATOSES | 8 AESTHETIC PROCEDURES | ALL PHOTOTYPES | MEN & WOMEN

INDICATION OF PRESCRIPTION OF MINÉRAL 89 BOOSTER



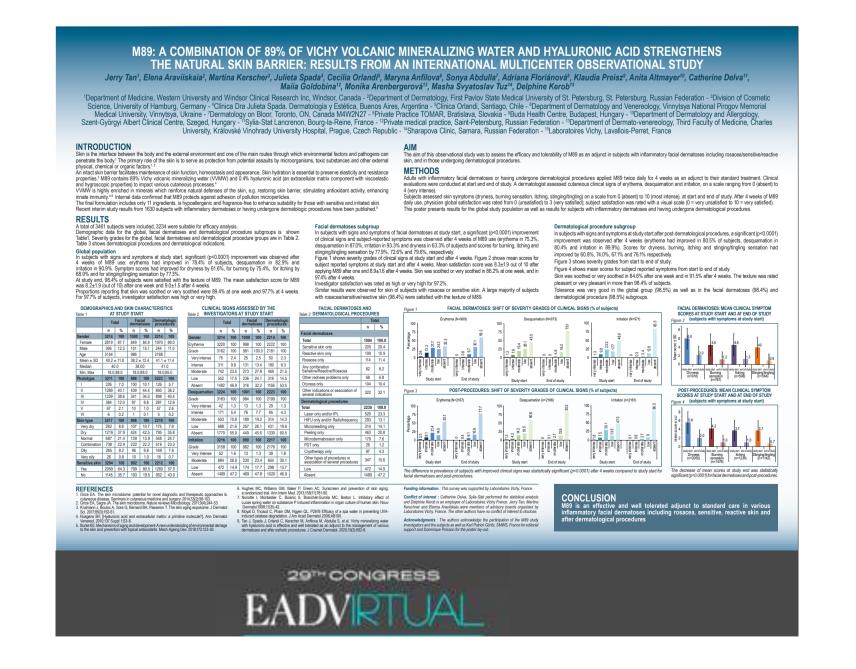
CONCLUSIONS



PUBLICATION¹



POSTER²





† in facial dermatoses group; †† in esthetic procedures group.

1. Tan J. et al. Vichy Mineralizing Water with Hyaluronic Acid is effective and well tolerated as an adjunct to the management of various dermatoses and after esthetic procedures. J Cosmet Dermatol. 2020;19(3):682 688. 2. Tan J. et al. M89: A combination of 89% of Vichy volcanic mineralizing water and hyaluronic acid strengthens the natural skin barrier: results from an international multicenter observational study. Poster 0455 at EADV. 2020 MINERAL 89 DAILY BOOSTER f V

MINÉRAL 89 DAILY BOOSTER: A COMBINATION OF 89% OF VICHY VOLCANIC MINERALIZING WATER AND HYALURONIC ACID STRENGTHENS THE NATURAL SKIN BARRIER AND SHOWS EFFICACY AND HIGH TOLERABILITY IN VARIOUS FACIAL INFLAMMATORY DERMATOSES AND AESTHETIC PROCEDURES AS ADJUNCT

AIM

The aim of this observational study was to assess the efficacy and tolerability of M89 as an adjunct in subjects with inflammatory facial dermatoses including rosacea/ sensitive/ reactive skin, and in those undergoing dermatological procedures.

METHODS

Adults with inflammatory facial dermatoses or having undergone dermatological procedures applied M89 twice daily for 4 weeks as an adjunct to their standard treatment. Clinical evaluations were conducted at start and end of study.

A dermatologist assessed cutaneous clinical signs of erythema, desquamation and irritation, on a scale ranging from 0 (absent) to 4 (very intense). Subjects assessed skin symptoms (dryness, burning sensation, itching, stinging/tingling) on a scale from 0 (absent) to 10 (most intense), at start and end of study.

After 4 weeks of M89 daily use, physician global satisfaction was rated from 0 (unsatisfied) to 3 (very satisfied); subject satisfaction was rated with a visual scale (0 = very unsatisfied to 10 = very satisfied).

PANEL

A total of 3461 subjects were included, from 22 countries. 3234 were suitable for efficacy analysis. Demographic data for the global, facial dermatoses and dermatological procedure subgroups is shown Table 1. Severity grades for the global, facial dermatoses and dermatological procedure groups are in Table 2. Table 3 shows dermatological procedures and dermatological indications.

DEMOGRAPHICS AND SKIN CHARACTERISTICS AT STUDY START

	TOTAL			CIAL ATOSES		OLOGIC DURES
	Ν	%	N	%	N	%
Gender	3214	100	10000	100	2214	100
Female	2819	87,7	849	84,9	1970	89,0
Male	395	12,3	151	15,1	244	11,0
Age	3154		986		2168	
mean ± SD	40,2	± 11,8	38,2	± 12,4	41,1 ± 11,4	
Median	40),0	38	,00	41	,0
Min; Max	18,0;88,0		18,0;	;88,0	18,0;85,0	
phototype	3211	100	988	100	2223	100
I	226	7,0	100	10,1	126	5,7
II	1289	40,1	439	44,4	850	38,2
III	1239	38,6	341	34,5	898	40,4
IV	384	12,0	97	9,8	287	12,9
V	67	2,1	10	1,0	57	2,6
VI	6	0,2	1	0,1	5	0,2
Skin type	3217	100	998	100	2219	100
Very dry	282	8,8	107	10,7	175	7,9
Dry	1219	37,9	424	42,5	795	35,8
Normal	687	21,4	139	13,9	548	24,7
Combination	<i>7</i> 38	22,9	222	22,2	516	23,3
Oily	265	8,2	96	9,6	169	7,6
Very oily	26	0,8	10	1,0	16	0,7
Sensitive skin	3204	100	992	100	2212	100
Yes	2059	64,3	799	80,5	1260	57,0
No	1145	35,7	193	19,5	952	43,0

CLINICAL SIGNS ASSESSED BY THE INVESTIGATORS AT STUDY START

	TOTAL			CIAL ATOSES	DERMATOLOGIC PROCEDURES	
	N	%	N	%	Ν	%
Erythema	3220	100	998	100	2222	100
Grade	3162	100	981	100	2181	100
Very intense	75	2.4	25	2.5	50	2.3
Intense	311	9.8	131	13.4	180	8.3
Moderate	742	23.5	273	27.8	469	21.5
Low	552	17.5	236	24.4	316	14.5
Absent	1482	46.9	316	32.2	1166	53.5
Desquamation	3224	100	1001	100	2223	100
Grade	3183	100	984	100	2199	100
Very intense	42	1.3	13	1.3	29	1.3
Intense	171	5.4	76	7.7	95	4.3
Moderate	503	15.8	189	19.2	314	14.3
Low	688	21.6	257	26.1	431	19.6
Absent	1779	55.9	449	45.6	1330	60.5
Irritation	3216	100	999	100	2217	100
Grade	3158	100	982	100	2178	100
Very intense	52	1,6	13	1.3	39	1.8
Moderate	884	28.0	230	23.4	654	30.1
Low	472	14.9	174	17.7	298	13.7
Absent	1489	47.2	469	47.8	1020	46.9

FACIAL DERMATOSES AND DERMATOLOGICAL PROCEDURES

	10	DTAL
	N	%
FACIAL DERMATOSES	113	100
Total	1004	100,
Sensitive skin only	205	20,4
Reactive skin only	109	10,9
Rosacea only	114	11,
Any combination Sensitive/Reactive/Rosacea	82	82
Other redness problems only	68	6,8
Dryness only	104	10,
other indications or association of several indications DERMATOLOGICAL PROCEDURES	322	32,
	223,	
DERMATOLOGICAL PROCEDURES		100,
DERMATOLOGICAL PROCEDURES Total Laser only and/or IPL	223,	100,
DERMATOLOGICAL PROCEDURES Total Laser only and/or IPL	223,	100,
DERMATOLOGICAL PROCEDURES Total Laser only and/or IPL HIFU only and/or Radiofrequency Microneeding only	223, 520 293	100,0 23,3 13,1 14,1
DERMATOLOGICAL PROCEDURES Total Laser only and/or IPL HIFU only and/or Radiofrequency Microneeding only	223, 520 293 314	100,0 23,3 13,1 14,1
DERMATOLOGICAL PROCEDURES Total Laser only and/or IPL HIFU only and/or Radiofrequency Microneeding only Peeling only Microdermabrasion only	223, 520 293 314 463	100, 23,3 13,1 14,1 20,8
DERMATOLOGICAL PROCEDURES Total Laser only and/or IPL HIFU only and/or Radiofrequency Microneeding only Peeling only Microdermabrasion only	223, 520 293 314 463 170	100,0 23,3 13,1 14,1 20,8
DERMATOLOGICAL PROCEDURES Total Laser only and/or IPL HIFU only and/or Radiofrequency Microneeding only Peeling only Microdermabrasion only PDT only	223, 520 293 314 463 170 26	100,0 23,3 13,1 14,1 20,8 7,6
DERMATOLOGICAL PROCEDURES Total Laser only and/or IPL HIFU only and/or Radiofrequency Microneeding only Peeling only Microdermabrasion only PDT only Cryotherapy only	223, 520 293 314 463 170 26 97	14,1 20,8 7,6 1,2 4,3

VICHY LABORATOIRE

RESULTS FOR GLOBAL POPULATION

In subjects with signs and symptoms at study start, significant (p<0.0001) improvement was observed after 4 weeks of M89 use: erythema had improved in 78.4% of subjects, desquamation in 82.9% and irritation in 90.9%.

Symptom scores had improved for dryness by 61.6%, for burning by 75.4%, for itching by 68.9% and for stinging/tingling sensation by 77.3%.

98.4% OF SUBJECTS STATED TO BE SATISFIED WITH THE TEXTURE OF M89.

The mean satisfaction score for M89 was 8.2±1.9 (out of 10) after one week and 9.0±1.5 after 4 weeks.

Proportions reporting that skin was soothed or very soothed were 89.4% at one week and 97.7% at 4 weeks. For 97.7% of subjects, investigator satisfaction was high or very high.

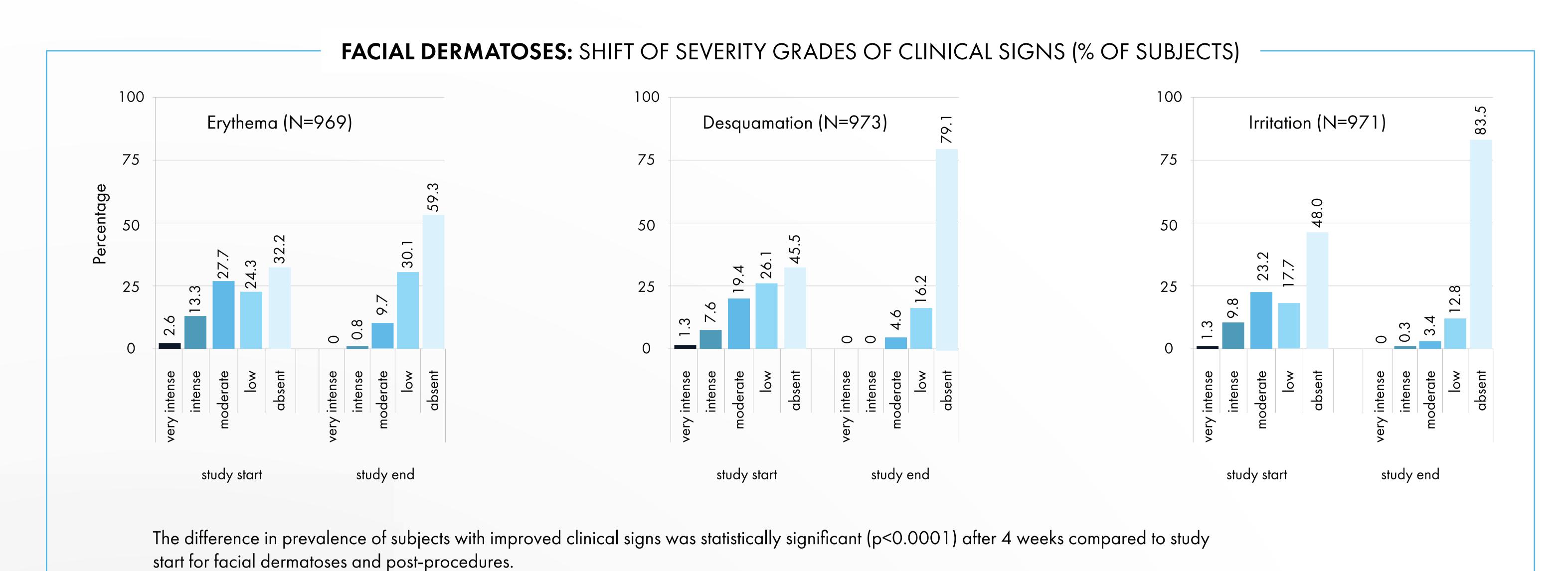


MINÉRAL 89 DAILY BOOSTER IS AN EFFECTIVE AND WELLTOLERATED ADJUNCT TO STANDARD CARE IN VARIOUS INFLAMMATORY FACIAL DERMATOSES AND AFTER DERMATOLOGICAL PROCEDURES

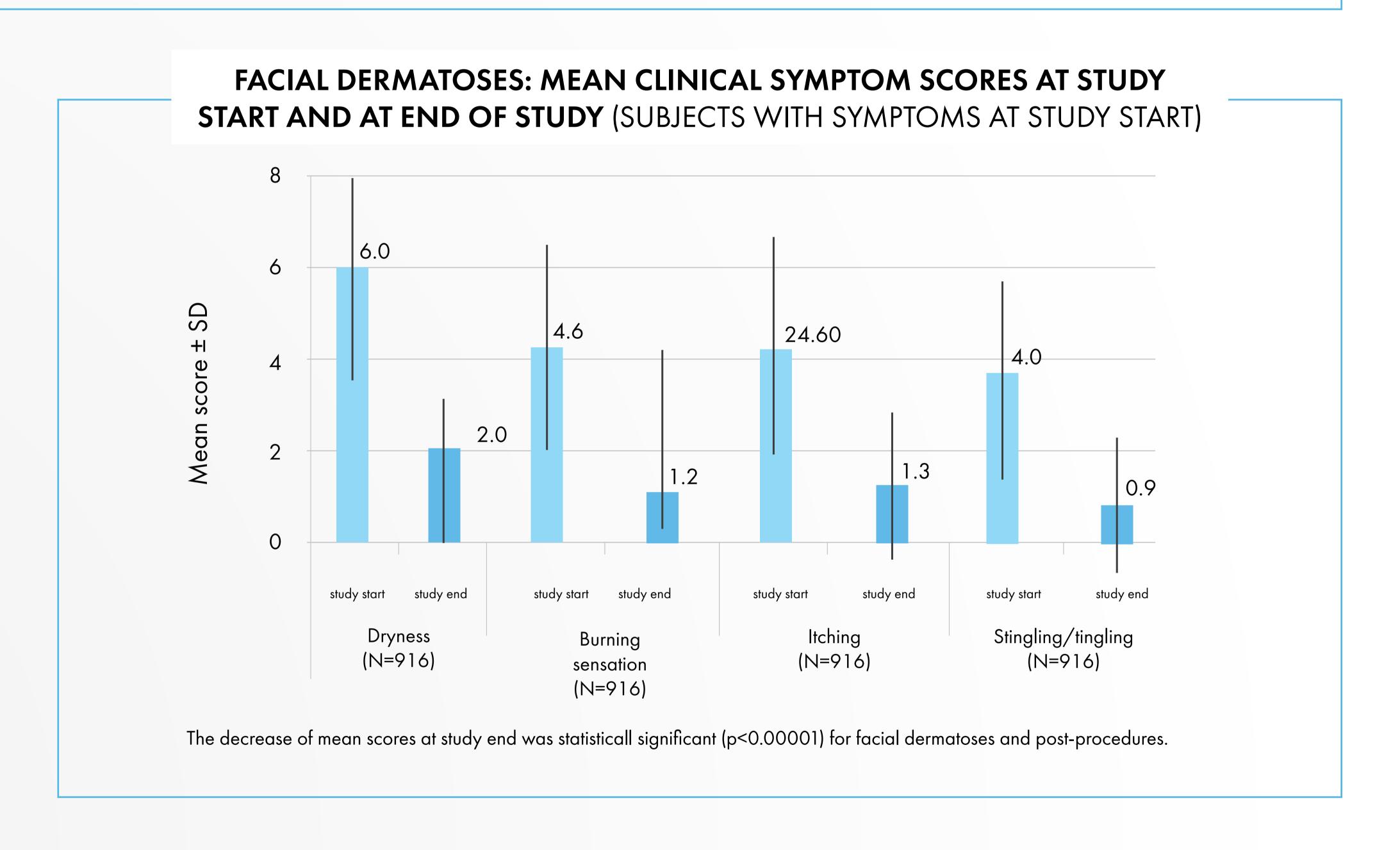
as demonstrated on over 3400 subjects evaluated by 325 dermatologists in 22 different countries:

- Improves clinical signs and symptoms of rosacea, sensitive and reactive skin, with high tolerability and satisfaction in a real-life setting;
- Is an effective and well tolerated adjunct in postprocedure skin care, including aggressive lasers.

RESULTS FOR FACIAL DERMATOSES SUBGROUP







MINÉRAL 89 DAILY BOOSTER IS AN EFFECTIVE AND WELL-TOLERATED IN SUBJECTS WITH SIGNS AND SYMPTOMS OF FACIAL DERMATOSES

with significant results after 4 weeks:

- Improvement of clinical signs and subject-reported symptoms: erythema in 75.3%, desquamation in 87.0%, irritation in 93.3% and dryness in 63.3% of subjects, and scores for burning, itching and stinging/tingling sensation by 77.9%, 72.6% and 79.6%, respectively;
- Mean satisfaction score: 8.3±1.9 (out of 10) after one week and 8.9±1.6 after 4 weeks;
- Skin was soothed or very soothed and in 97.4% after 4 weeks;
- Investigator satisfaction was rated as high or very high for 97.2%.

3.927 PATIENTS | 20 SCIENTIFIC STUDIES | 325 DERMATOLOGISTS | 22 COUNTRIES

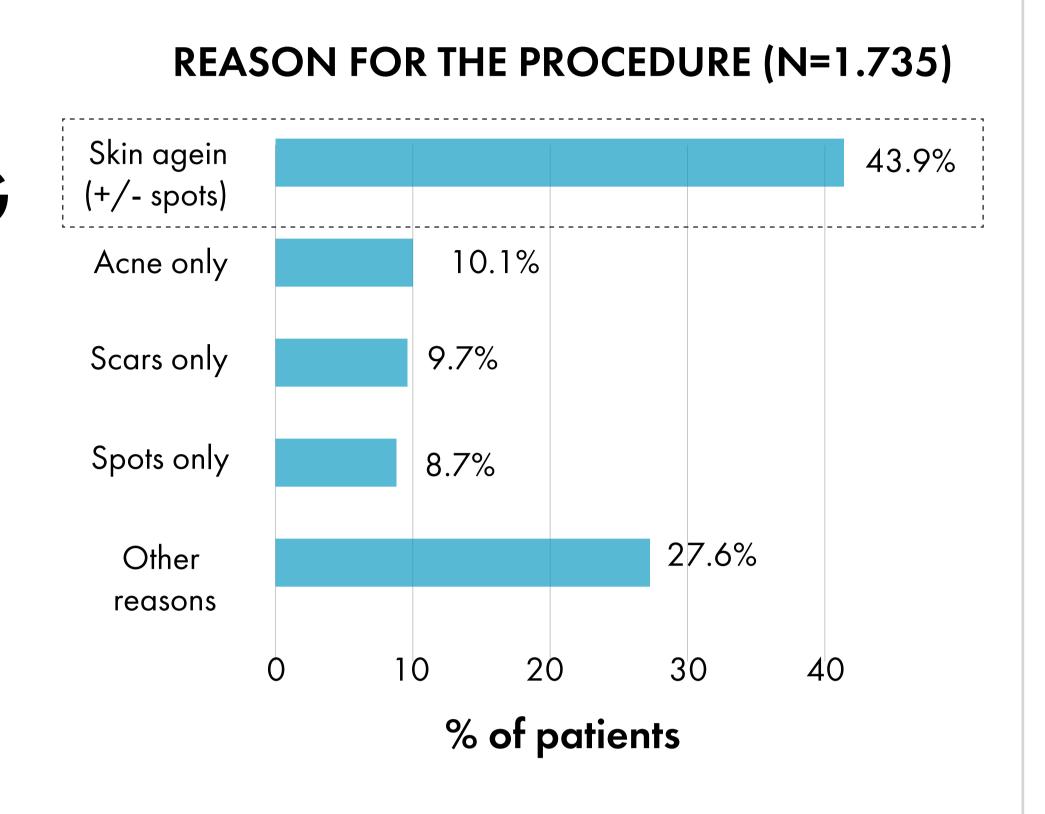
6 FACIAL DERMATOSES | 8 AESTHETIC PROCEDURES | ALL PHOTOTYPES | MEN & WOMEN

Post-aesthetic procedures high efficacy demonstrated in global observational study subgroup analysis^{1,2}

INDICATION OF PRESCRIPTION

761 PATIENTS

POST-ANTIAGEING **PROCEDURES**

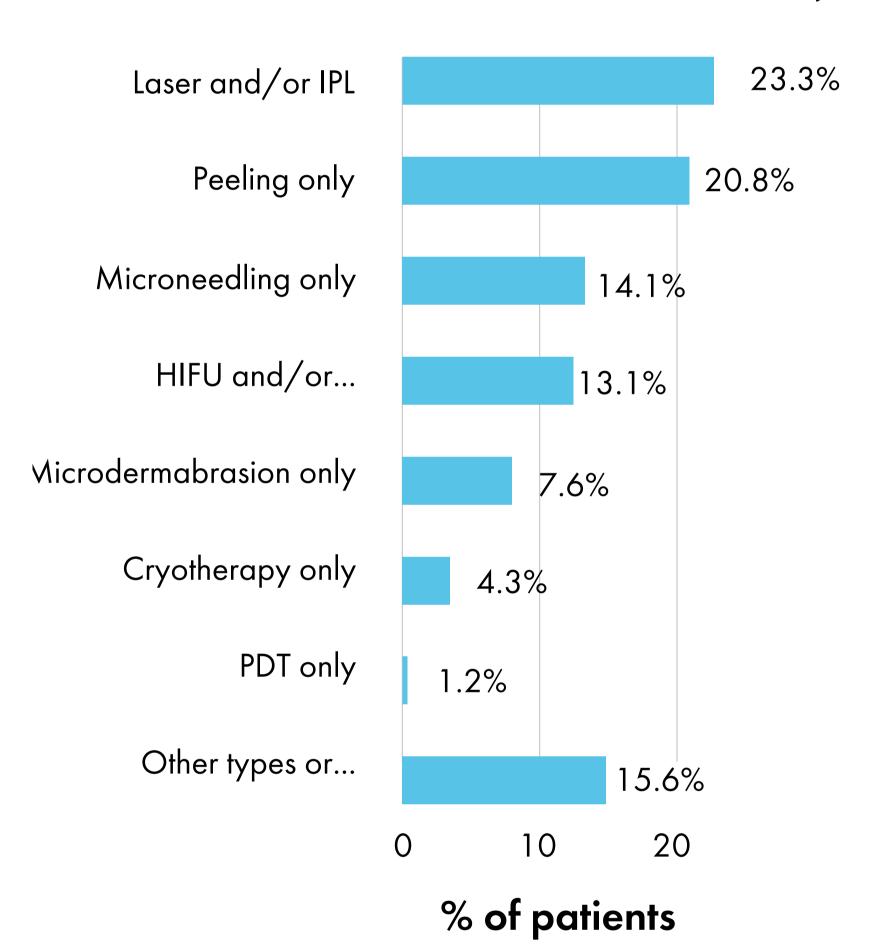


2230 PATIENTS

POST-ACNE, SCARS, SPOTS **PROCEDURES**



TYPES OF PROCEDURE (N=2 230)



CONCLUSIONS

DAILY BOOSTER

SIGNIFICANTLY IMPROVED CLINICAL SIGNS AND SYMPTOMS WHEN USED AFTER ESTHETIC PROCEDURES FOR SKIN AGEING: INCLUDING MICRONEEDLING, LASER OR IPL & PEELING

IRRITATION

ITCHING

-93.0%

-74.5%

MINÉRAL 89

DAILY BOOSTER

SIGNIFICANTLY IMPROVED CLINICAL SIGNS AND SYMPTOMS WHEN USED AFTER ESTHETIC PROCEDURES FOR ACNE, SCARS AND SPOTS

AGGRESSIVE LASER **PROCEDURE**

STINGING IRRITATION -88.9% -80.5%

179 PATIENTS

STINGING

PEELING

463 PATIENTS

-92.0%

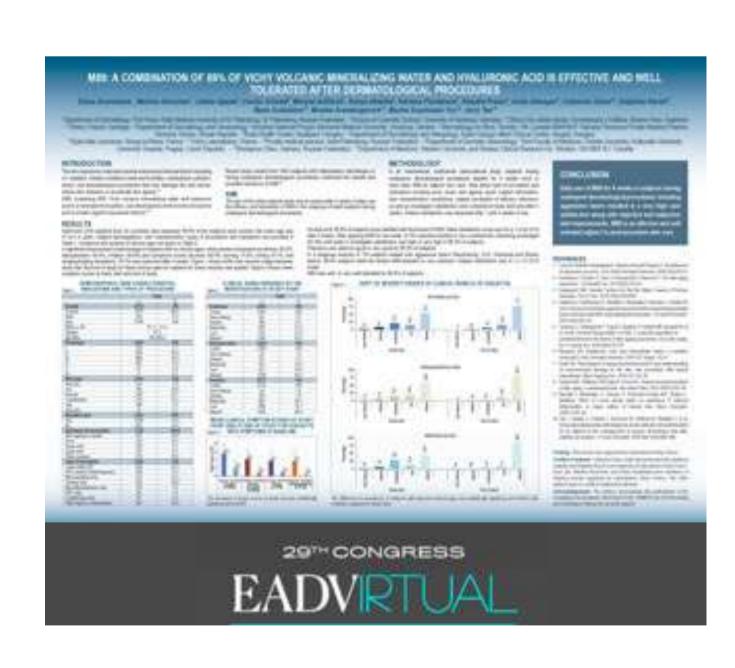
ITCHING

77.7%

PUBLICATION¹



POSTER²



^{*} Aggressive laser: Resurfacing, CO2, Fractional and Erbium lasers; IPL: intense pulsed light; HIFU: high-intensity focused ultrasound; PDT: photodynamic therapy.

MINERAL 89 DAILY BOOSTER V



TO THE FULL STUDY, PUBLICATION

AND POSTER

^{1.} Tan J. et al. Vichy Mineralizing Water with Hyaluronic Acid is effective and well tolerated as an adjunct to the management of various dermatoses and after esthetic procedures. J Cosmet Dermatol. 2020;19(3):682-688. 2. Tan J. et al. M89: A combination of 89% of Vichy volcanic mineralizing water and hyaluronic acid is effective and well tolerated after dermatological procedures. Poster 0424 at EADV. 2020

MINERAL 89 BOOSTER POST-AESTHETIC PROCEDURE PRESCRIPITION

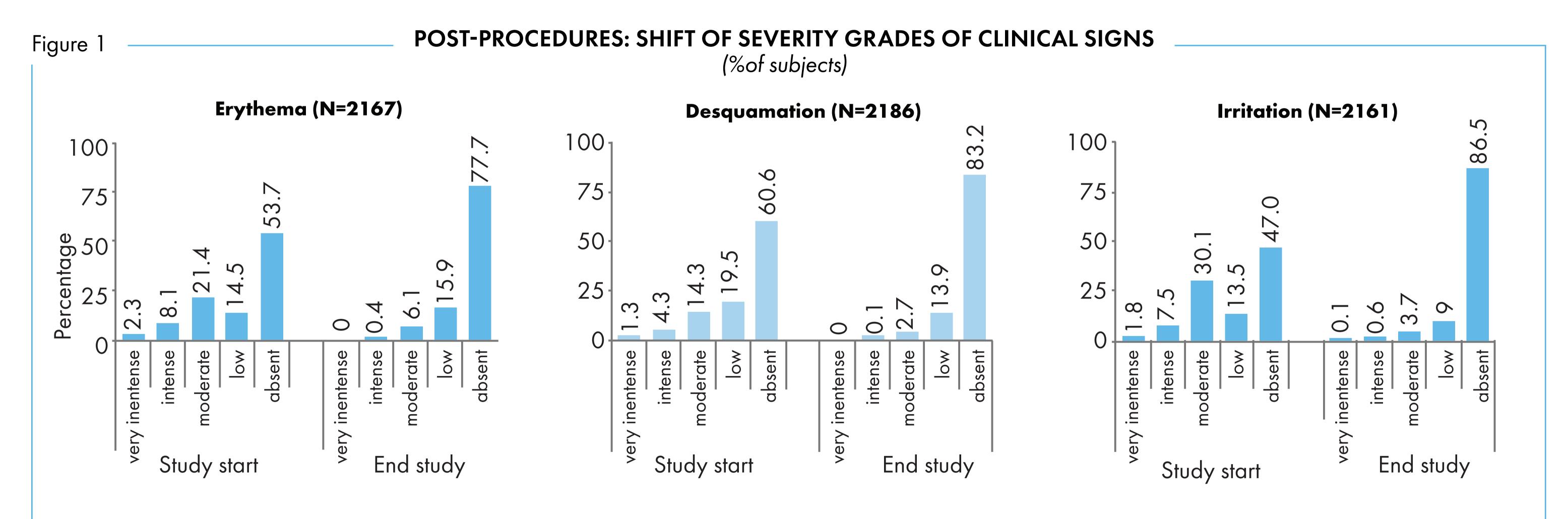
RESULTS FOR DERMATOLOGICAL PROCEDURE SUBGROUP

The subgroup analysis of 2230 adult subjects having undergone dermatological procedures (including Laser and/or IPL, HIFU and/or radiofrequency, microneedling, peeling, microdermabrasion, PDT, cryotherapy), significant (p<0.0001) improvement was observed after 4 weeks of M89 use:

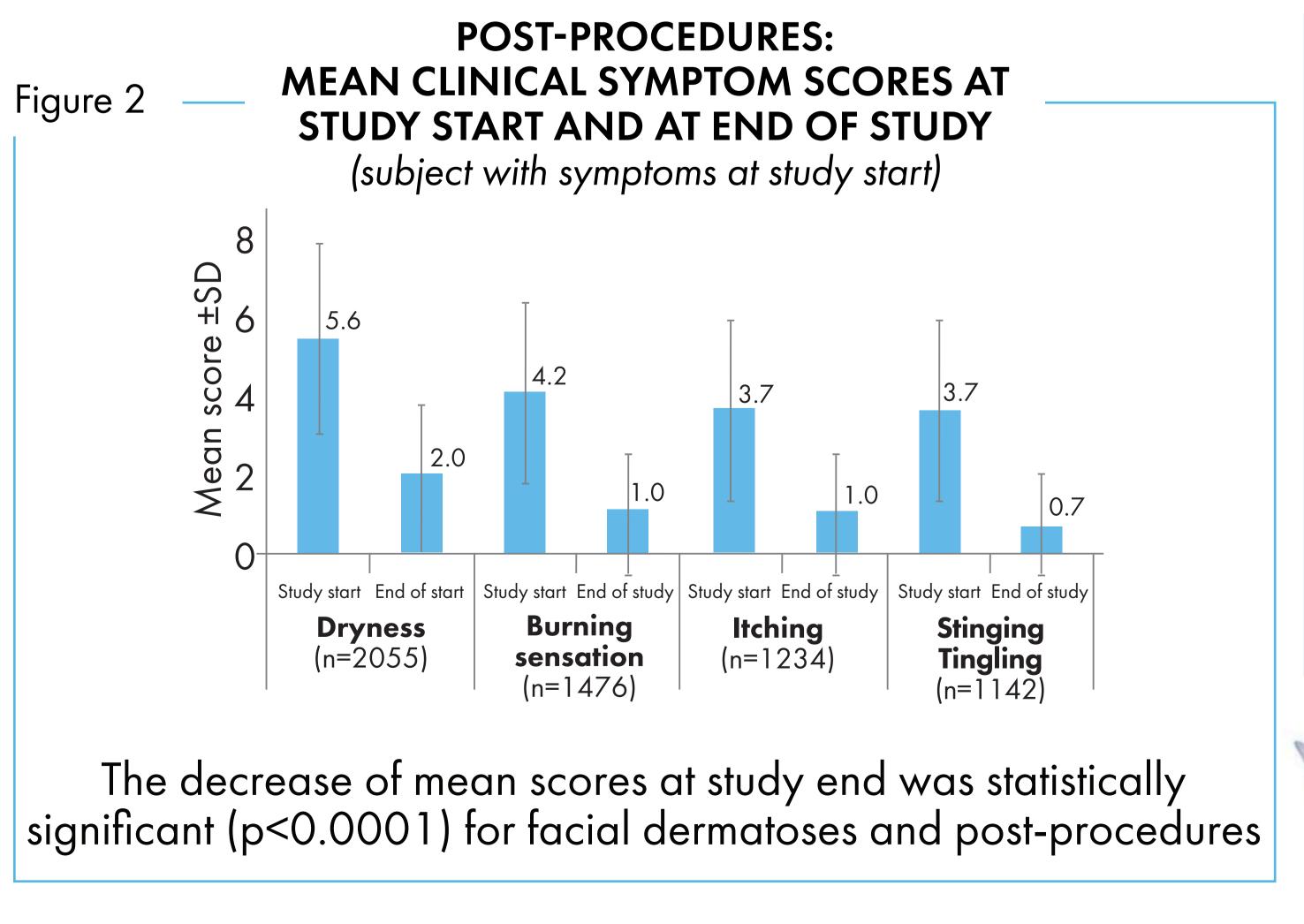
- Improvement of clinical signs and subject-reported symptoms: erythema had improved in 80.5% of subjects, desquamation in 80.4% and irritation in 89.9%. Scores for dryness, burning, itching and stinging/tingling sensation had improved by 60.8%, 74.0%, 67.1% and 76.1% respectively;
- Soothed or very soothed skin in 84.6% after one week and in 91.5% after 4 weeks;
- Pleasant or very pleasant texture in more than 98.6% of subjects;
- Very good tolerance in 98.5% of subjects.

98.4% OF SUBJECTS RATED M89 TOLERANCE AS GOOD OR VERY GOOD.

The mean satisfaction score for M89 was 8.2±1.9 (out of 10) after one week and 9.0±1.5 after 4 weeks. Proportions reporting that skin was soothed or very soothed were 89.4% at one week and 97.7% at 4 weeks. For 97.7% of subjects, investigator satisfaction was high or very high.



The difference in prevalence of subjects with impoved clinical signs was statiscically significant (p<0.0001) after 4 weeks compared to study start for facar dermatoses and post-procedures



MINÉRAL 89 DAILY BOOSTER
IS EFFECTIVE AND WELL-TOLERATED
AFTER DERMATOLOGICAL
PROCEDURES
with significant results
after 4 weeks.

MINERAL 89 DAILY BOOSTER

Tan J. et al. M89: A combination of 89% of Vichy volcanic mineralizing water and hyaluronic acid is effective and well tolerated after dermatological procedures. Poster 0424 at EADV. 2020.



3.927 PATIENTS | 20 SCIENTIFIC STUDIES | 325 DERMATOLOGISTS | 22 COUNTRIES

6 FACIAL DERMATOSES | 8 AESTHETIC PROCEDURES | ALL PHOTOTYPES | MEN & WOMEN

Post-laser procedures very high soothing effect of M89 booster in mask format clinically demonstrated

TESTED EFFICACY

MINERAL 89 MASK

POST FRACTIONAL ER- AND ND-YAG LASER PROCEDURE

51 BRAZILIAN AND CHINESE WOMEN

Just after laser intervention (DOT1)

10 min after laser intervention (DOT2)

Day 1 Day 5 (D1)

Day 28

(D28)

CONCLUSIONS

SIGNIFICANTLY IMPROVES CLINICAL SIGNS 1

ERYTHEMA EVOLUTION IN 10 MIN*

VISIBLE IMPROVEMENT





DOT1

SIGNIFICANTLY IMPROVES SKIN HYDRATION 1

(D5)

MEASURED BY:

- CORNEOMETER
- TRANSEPIDERMAL WATER LOSS (TEWL)

SIGNIFICANTLY IMPROVES SYMPTOMS ¹

BURNING

THIGHTNESS

STINGING

EVOLUTION IN 10 MIN*

EVOLUTION IN 10 MIN*

EVOLUTION IN 10 MIN*

Burn Sation

DOT1 Day C 502

IMPROVES QUALITY OF LIFE

IMPACT ON QOL

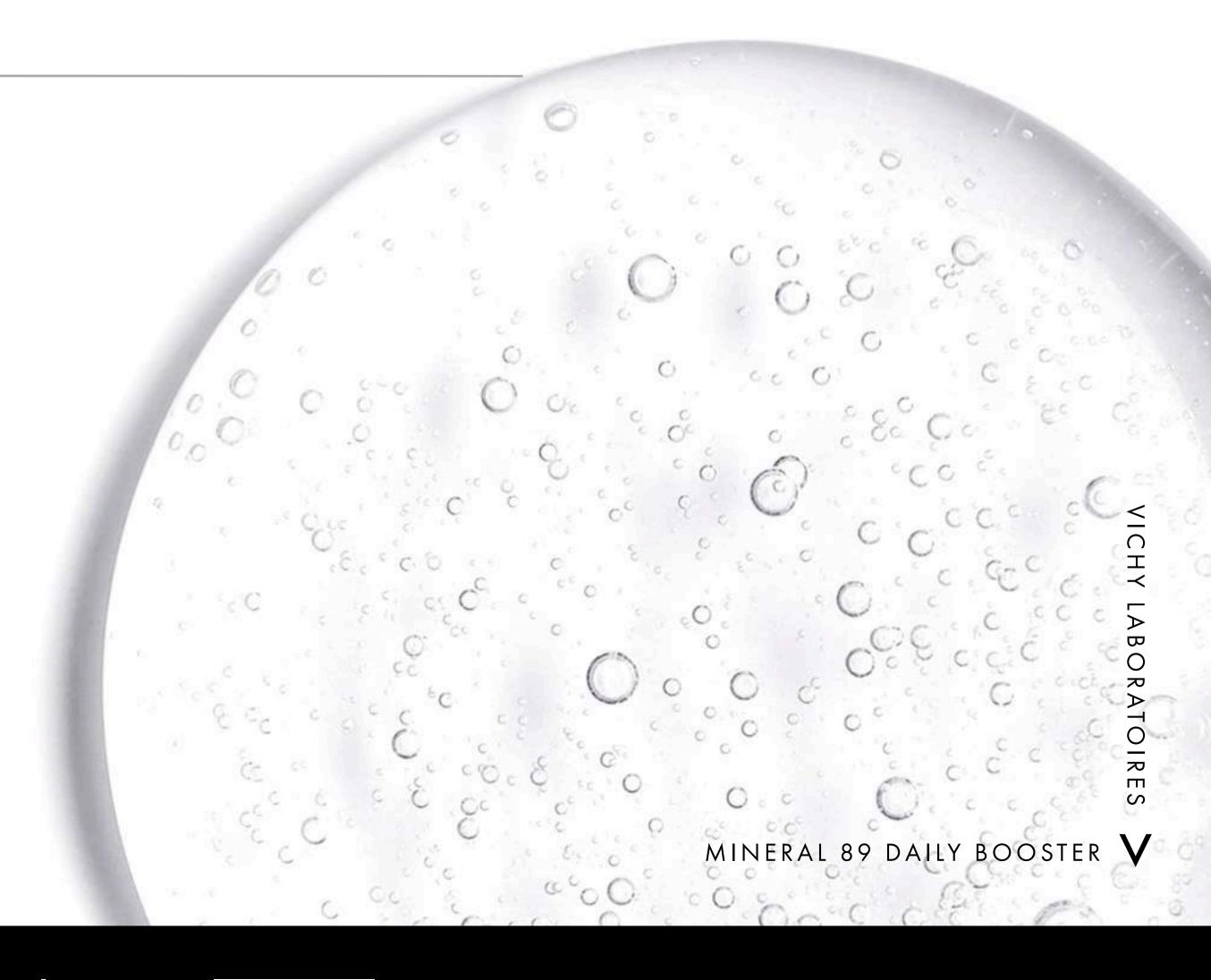
EVOLUTION IN 28 DAYS*

- 88%

PUBLICATION¹



- * Numerical results correspond to the Chinese subgroup; ER-YAG: erbiumdoped yttrium aluminium garnet; ND-YAG: neodymium-doped yttrium aluminum garnet; QoL: quality of life.
- 1. Torreão P. et al. Evaluation of the efficacy and tolerance of a cosmetic mask containing 89% of vichy volcanic mineralizing water and hyaluronic acid after facial laser procedures. J Cosmet Dermatol. 2021;20:2860-2866.





MINERAL 89 MASK IN-VIVO POST-PROCEDURE CLINICAL STUDY

EVALUATION OF TOLERANCE AND EFFICACY OF A COSMETIC MASK USED POST PROCEDURE

PRODUCT

Mineral 89 Mask: A micro-algae fiber tissue mask enriched with 89% of Vichy volcanic mineralizing water and natural hyaluronic acid.

AIM

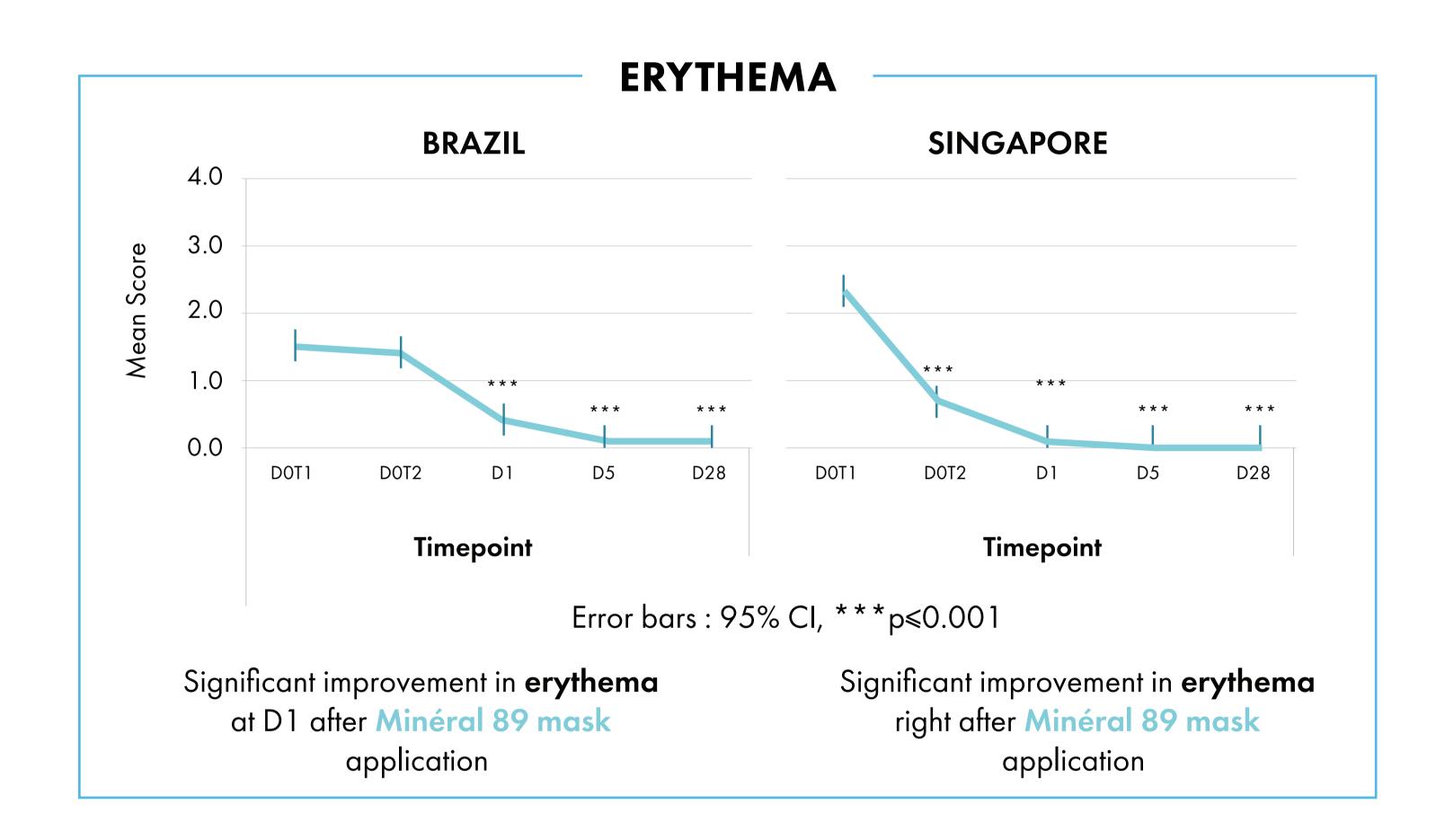
Assess efficacy and tolerance of Mineral 89 Mask on the face of 51 adult women post fractional Er- and Nd-YAG laser procedure

- 27 Brazilian in Brazil
- 24 Chinese living in Singapore

METHODS

- Application just after laser intervention for 10 minutes (DOT2), then daily for 5 days, and 2 to 3 times a week up to 28 days
- Statistical analysis using Student's Paired t-test and the Wilcoxon Signed Rank Test
- Baseline after laser (DOT1), right after product application (DOT2), D1, D5 and D28

RESULTS



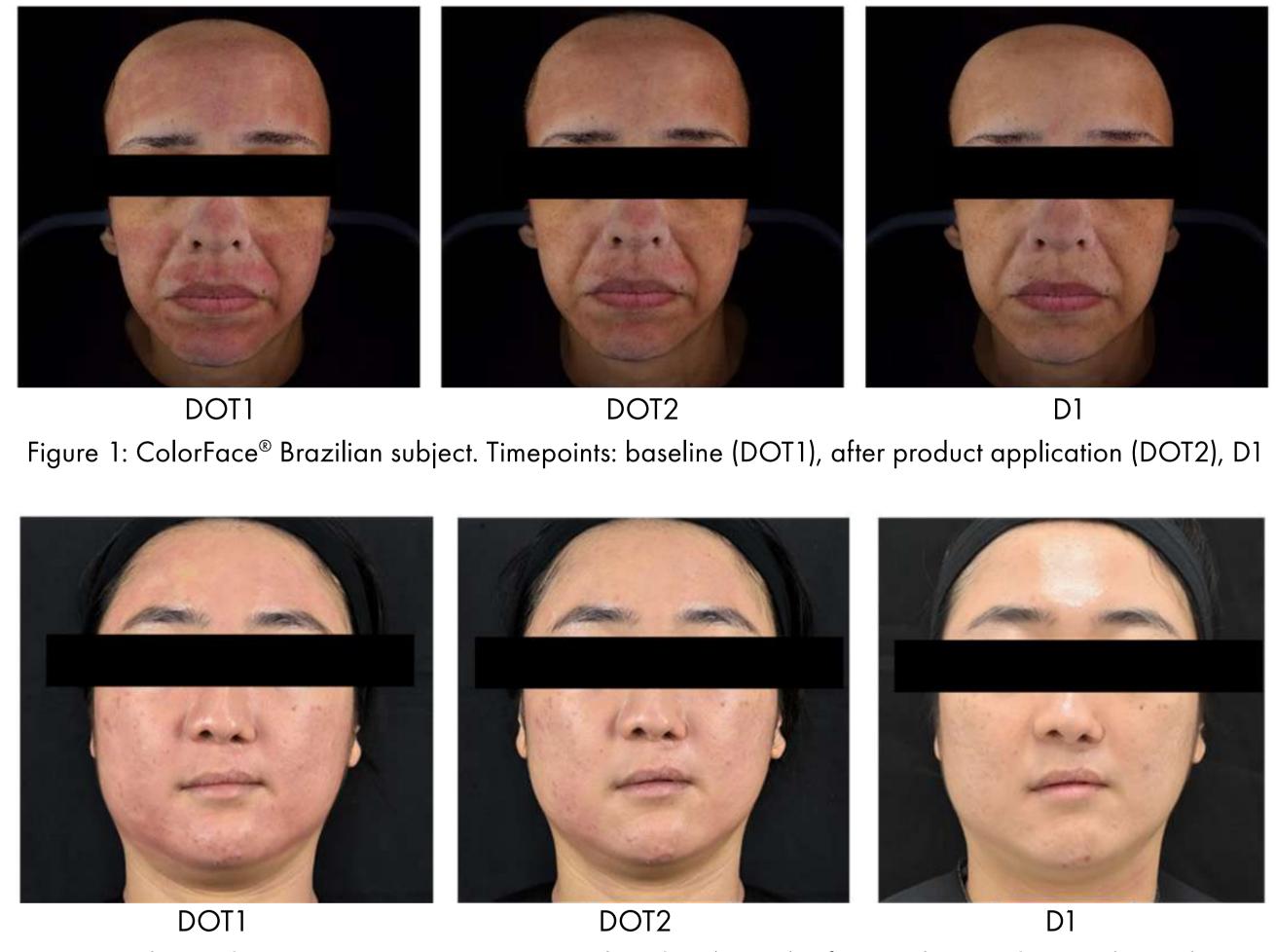
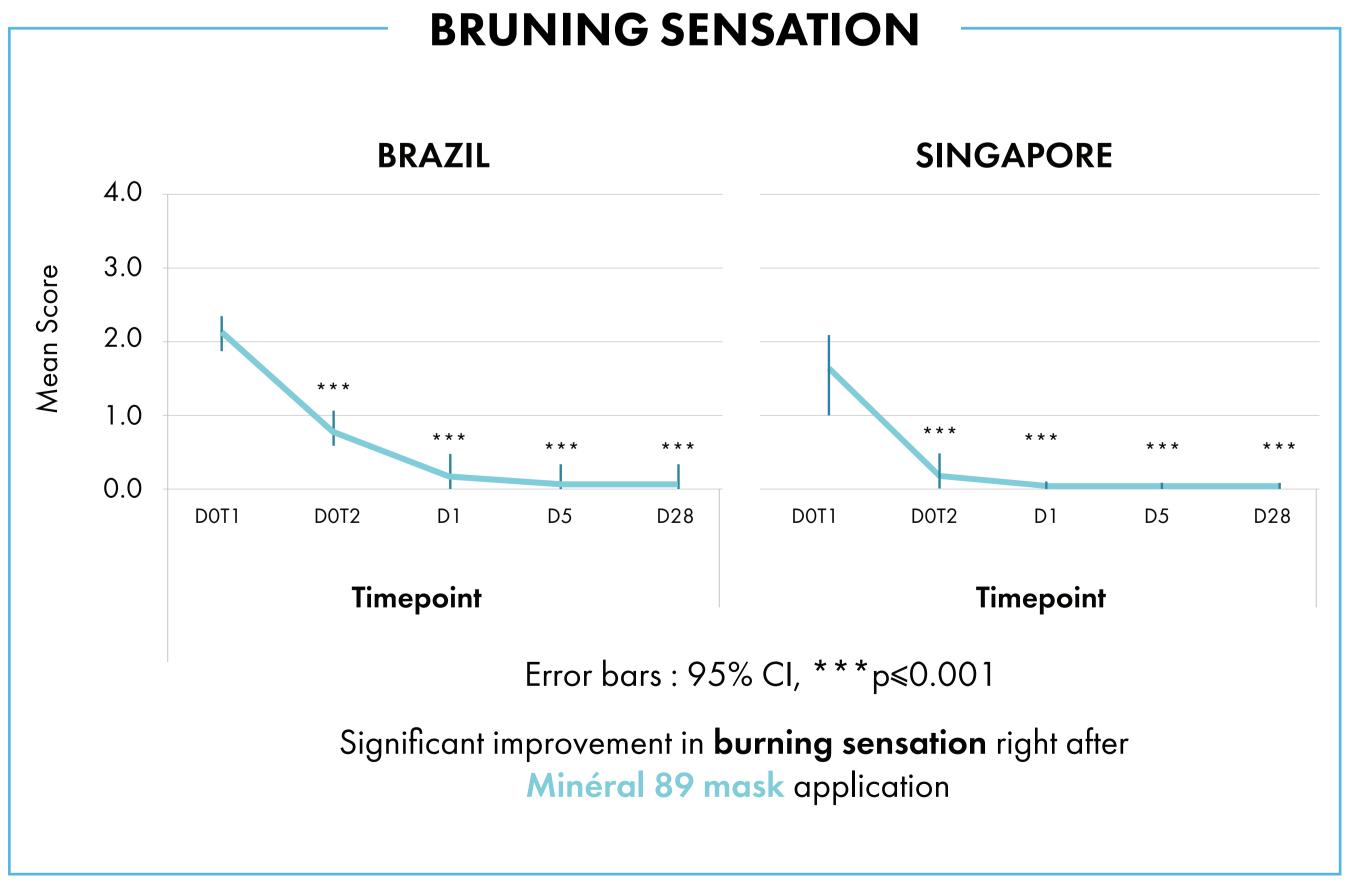
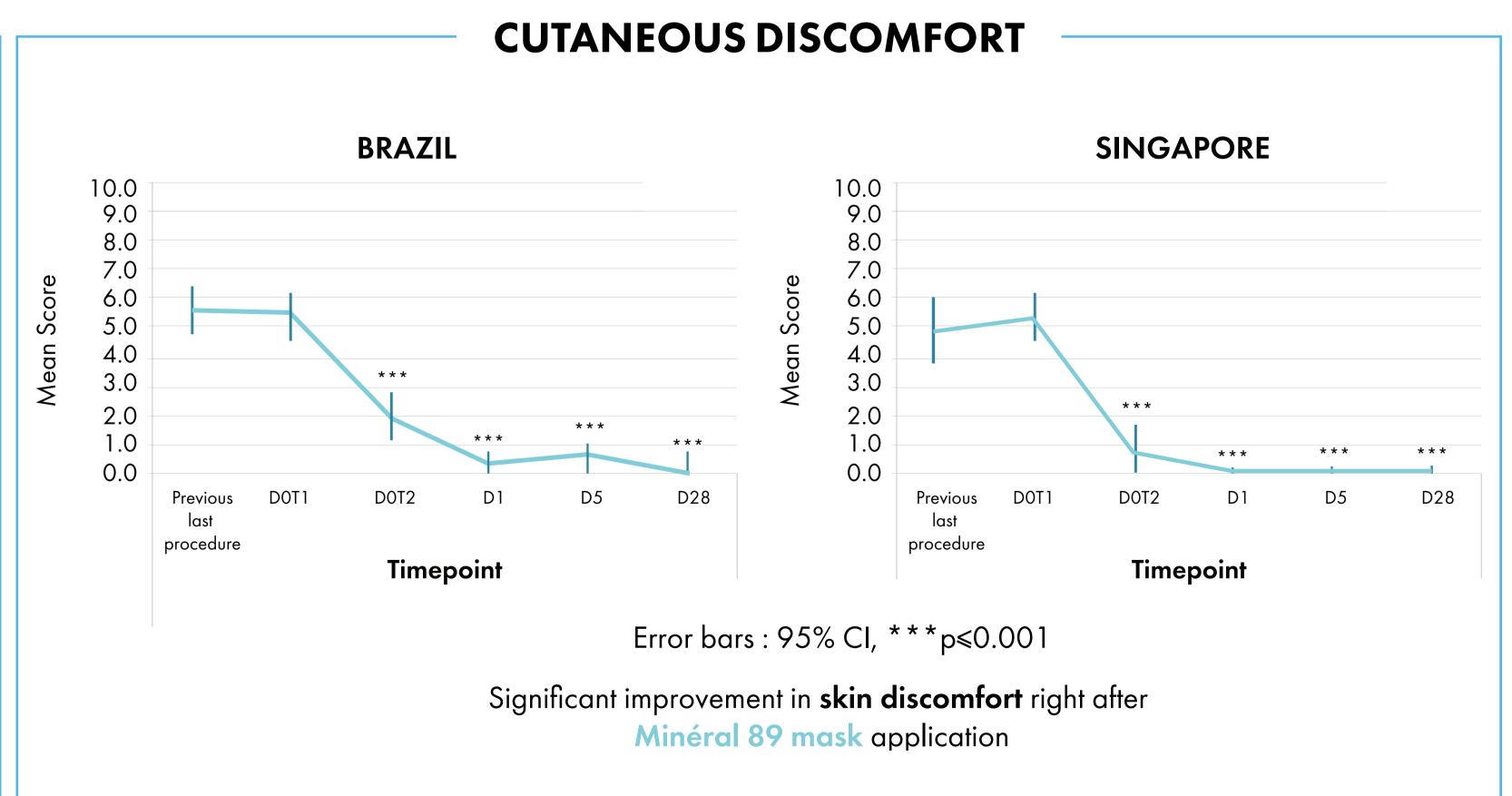
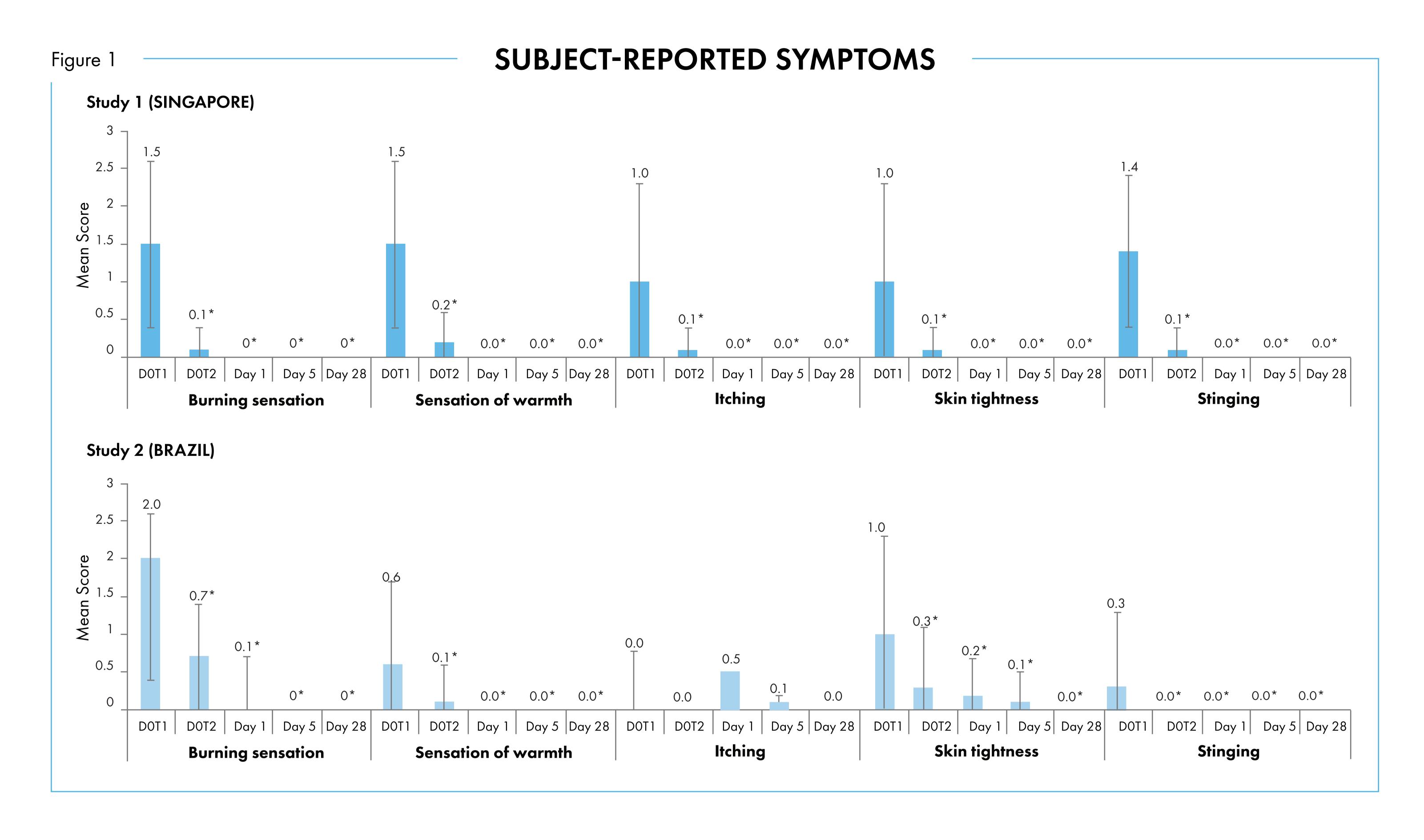


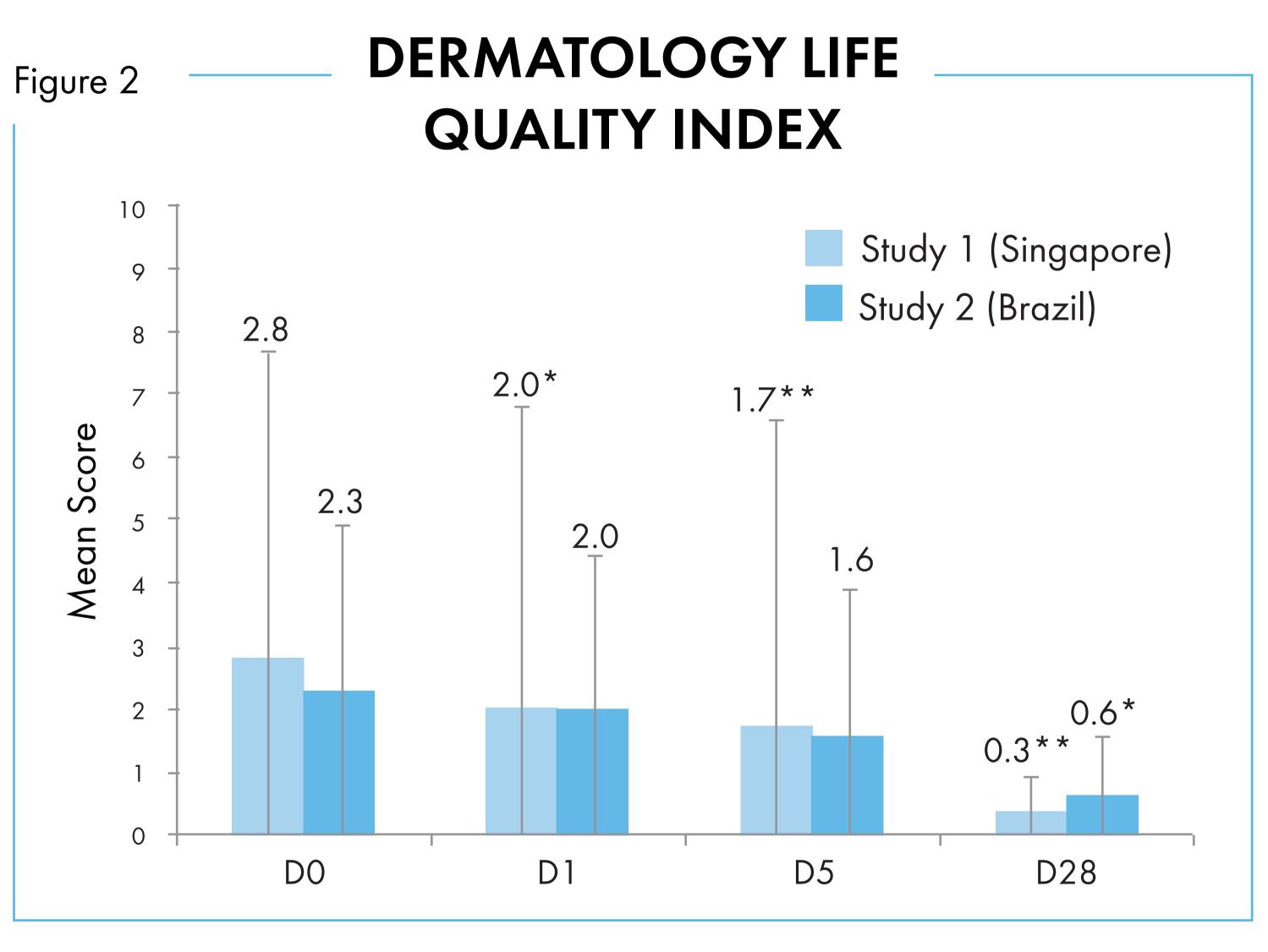
Figure 2: Chinese living in Singapore. Timepoints: baseline (DOT1), after product application (DOT2), D1

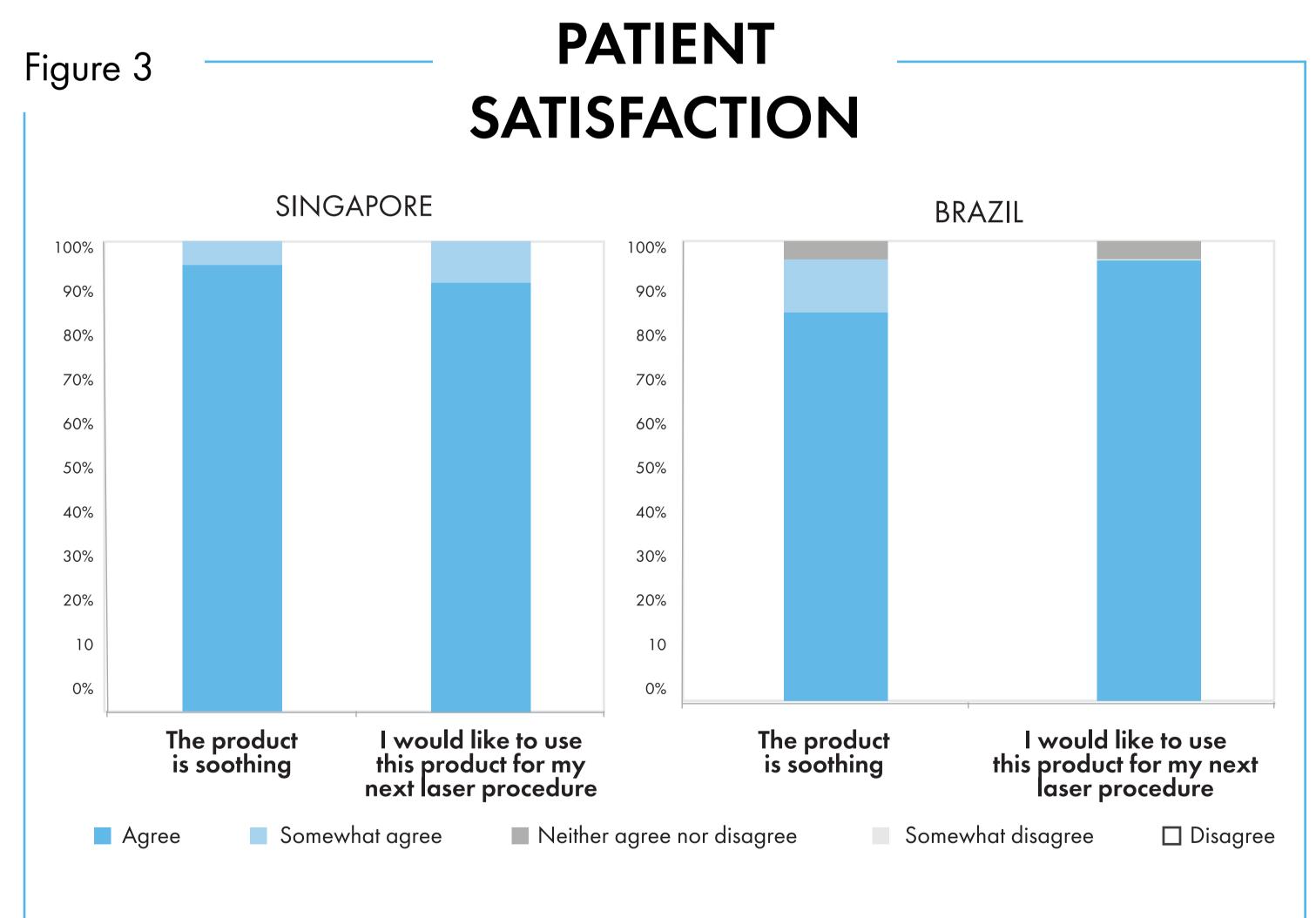




MINERAL 89 MASK IN-VIVO POST-PROCEDURE CLINICAL STUDY







MINÉRAL 89 MASK CAN BE USED IMMEDIATELY AFTER AESTHETIC PROCEDURES SUCH AS FRACTIONAL LASERS SHOWING IMPROVEMENT OF QOL AND HIGH PATIENT SATISFACTION

with significant reduction in discomfort and erythema and improvement of skin barrier function and hydration.

· Very high soothing effect perceived and willingness to reuse MINÉRAL 89 MASK or future laser procedures.*

*Only 3 out 51 subjects presented local intolerance signs related to the face mask (burning sensation, tearing and erythema) throughout the 28 days of study. None of these local intolerance findings led to product discontinuation.

3.927 PATIENTS | 20 SCIENTIFIC STUDIES | 325 DERMATOLOGISTS | 22 COUNTRIES

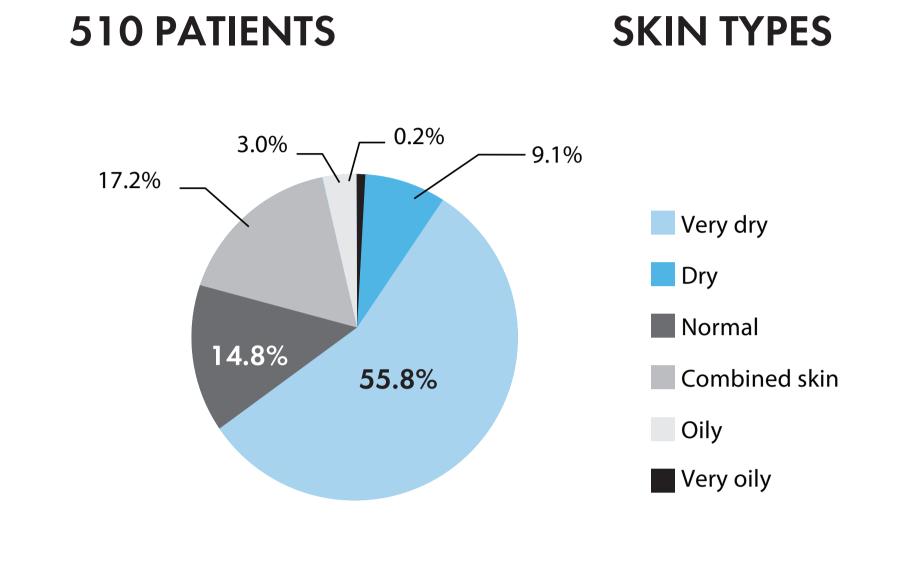
6 FACIAL DERMATOSES | 8 AESTHETIC PROCEDURES | ALL PHOTOTYPES | MEN & WOMEN

Rosacea, sensitive and reactive skin efficacy demonstrated in global observational study subgroup analysis^{1,2}

INDICATION OF PRESCRIPTION

MINÉRAL 89 DAILY TYPES OF FACIAL DERMATOSES **BOOSTER INDICATION** (N=1.004)(N=3.234)(N=1.004)Sensitive skin only 20.4% 31% Rosacea only 11.4% 69% Reactive skin only 10.9% Any combination 8.2% Sensitive/Reactive/Rosacea Dryness only Esthetic procedure 10.4% Dermatological Other redness problems only 6.8% Other indications or association 32.1% of several indications 10% 20%

ROSACEA, SENSITIVE OR REACTIVE SKIN, OR COMBINATION



CONCLUSIONS

SIGNIFICANTLY IMPROVES CLINICAL SIGNS

ERYTHEMA

IRRITATION

EVOLUTION FROM D0 TO D28

EVOLUTION FROM D0 TO D28

68.2%

92.2%

HIGH INVESTIGATOR SATISFACTION

97.2%

SIGNIFICANTLY IMPROVES SYMPTOMS

DRYNESS

BURNING

EVOLUTION FROM D0 TO D28

EVOLUTION FROM D0 TO D28

-65.9%

- 80.6%

HIGH PATIENT SATISFACTION

98.4%

TEXTURE SATISFACTION

PUBLICATION¹

POSTER²





- 1. Tan J. et al. Vichy Mineralizing Water with Hyaluronic Acid is effective and well tolerated as an adjunct to the management of various dermatoses and after esthetic procedures. J Cosmet Dermatol. 2020;19(3):682-688.
- 2. Tan J. et al. M89, a combination of 89% of Vichy Volcanic mineralizing water and hyaluronic acid improves signs and symptoms of subjects with rosacea/sensitive/reactive skin: results from an open-label, observational, international study. Poster 026268 at AAD. 2021.



MINERAL 89 DAILY BOOSTER 🗸





MINERAL 89: A COMBINATION OF 89% OF VICHY VOLCANIC MINERALIZING WATER AND HYALURONIC ACID IS BENEFICIAL AS AN ADJUNCT FOR THE MANAGEMENT OF ROSACEA

AIM

The aim of this observational study was to present the benefits and tolerability of M89 as an adjunct in a subgroup of subjects with rosacea.

MATERIALS & METHODS

- Data from a subgroup of 114 subjects treated for rosacea were analyzed. M89 was provided as an adjunct to conventional therapy for 4 weeks.
- Clinical evaluations included assessment of clinical signs and symptoms at baseline and after 4 weeks.
- At week 1 and 4, perceived tolerance and satisfaction were assessed.

PANEL

- A total of 114 subjects were included.
- Detailed demographic data are given in Table 1.
- Table 2 provides details about clinical signs and their severity grade at study start.

DEMOGRAPHICS AND SKIN CHARACTERISTICS AT STUDY START

	TOTAL	
	N	%
GENDER	113	100
Female	97	85.8
Male	16	14.2
Age	112	
Mean 50	43.0 ± 9.8	
Median	42.0	
Min; Max	23.0;86.0	
PHOTOTYPE	113	100
l	11	9.7
	66	58.4
	30	26.5
IV	6	5.3
Skin type	113	100
Very dry	4	3.5
DRY	61 54.0	
Normal	16	14.2
Combinaison	22	19.5
Oily	10	8.8
Sensitive skin	112	100
Yes	103	92.0
No	9	8.0
PAPULES/PUSTULES	112	100
Yes	35	31.3
No	77	68.8

CLINICAL SIGNS ASSESSED BY THE INVESTIGATORS AT STUDY START

	TOTAL	
	N	%
ERYTHEMA	114	100
Grade	111	100
Very intense	10	9.0
Intense	30	27.0
Moderate	45	40.5
Low	21	18.9
Absent	5	4.5
DESQUAMATION	113	100
Grade	112	100
Very intense	0	0
Intense	16	14.3
Moderate	12	10.7
Low	31	27.7
Absent	53	47.3
IRRITATION	114	100
Grade	109	100
Very intense	0	0
Intense	14	12.8
Moderate	32	29.4
Low	16	14.7
Absent	47	43.1

^{1.} Tan J. et al. M89, a combination of 89% of Vichy Volcanic mineralizing water and hyaluronic acid improves signs and symptoms of subjects with rosacea/sensitive/reactive skin: results from an open-label, observational, international study. Poster 026268 at AAD. 2021.

Figure 2

SD

score

Mean

6

DRYNESS

(N=107)

2.3

End of study

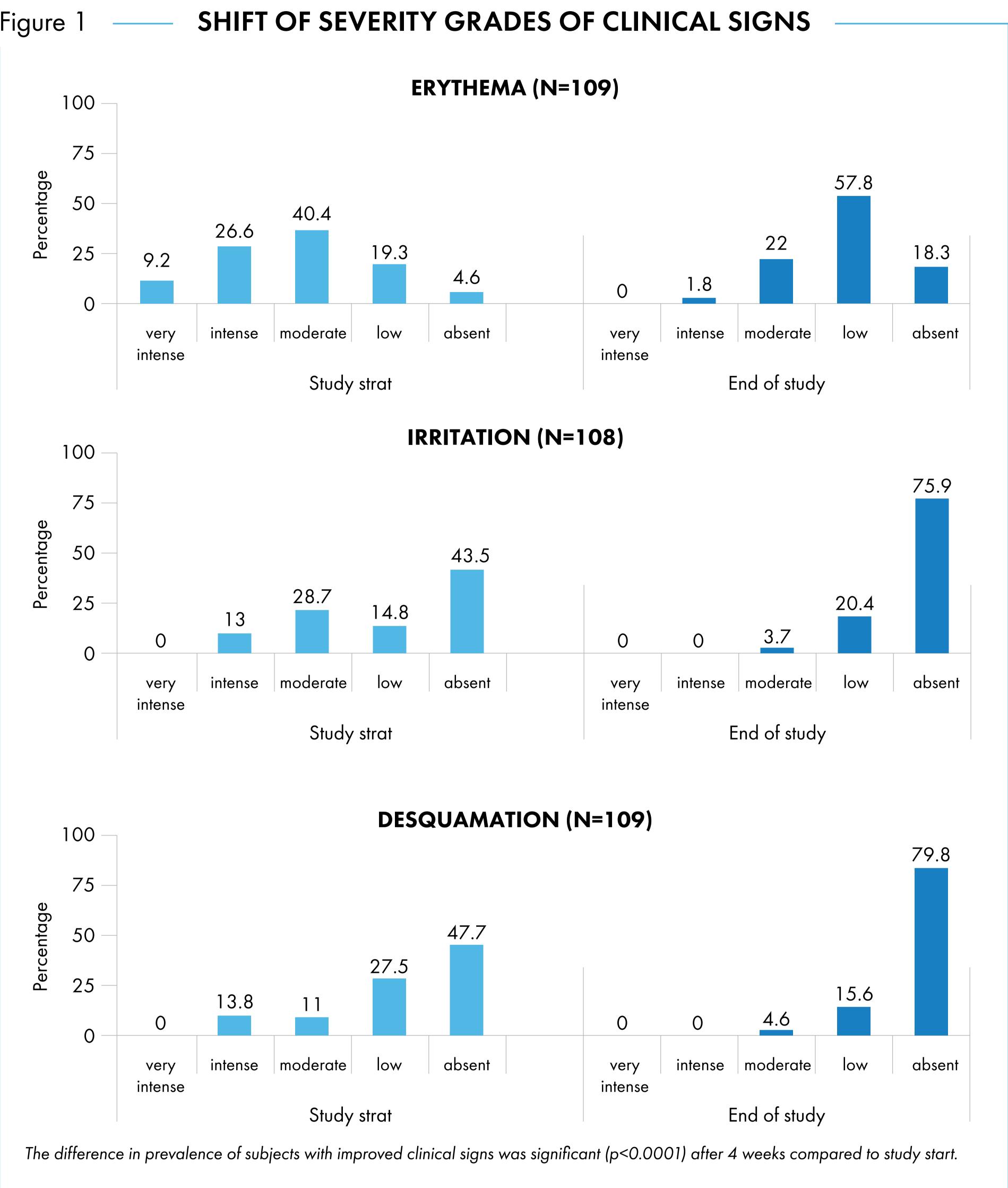
Mean scores had significant (p < 0.0001) decreased at study end.

6.3

Study strat

MINERAL 89 DAILY BOOSTER OBSERVATIONAL STUDY

RESULTS FOR ROSACEA SUBGROUP



POST-PROCEDURES:

MEAN CLINICAL SYMPTOM SCORES AT

STUDY START AND AT END OF STUDY

(subject with symptoms at study start)

1.5

End of study

ITCHING

(N=71)

End of study

5.7

Study strat

BURNING SENSATION

(N=106)

5.1

Study strat

STINGING/TINGLING

MINÉRAL 89 **BOOSTER** IS EFFECTIVE AND WELL-TOLER ATED IN SUBJECTS WITH ROSACEA, SENSITIVE OR REACTIVE SKIN

with significant results after 4 weeks:

- improvement of clinical signs: erythema +**77.9**% desquamation +89.5% irritation by 95.1%
- improvement of the symptoms:

skin dryness -62.1% burning sensation -77.5%



Study strat

(N=89)

End of study



3.927 PATIENTS | 20 SCIENTIFIC STUDIES | 325 DERMATOLOGISTS | 22 COUNTRIES

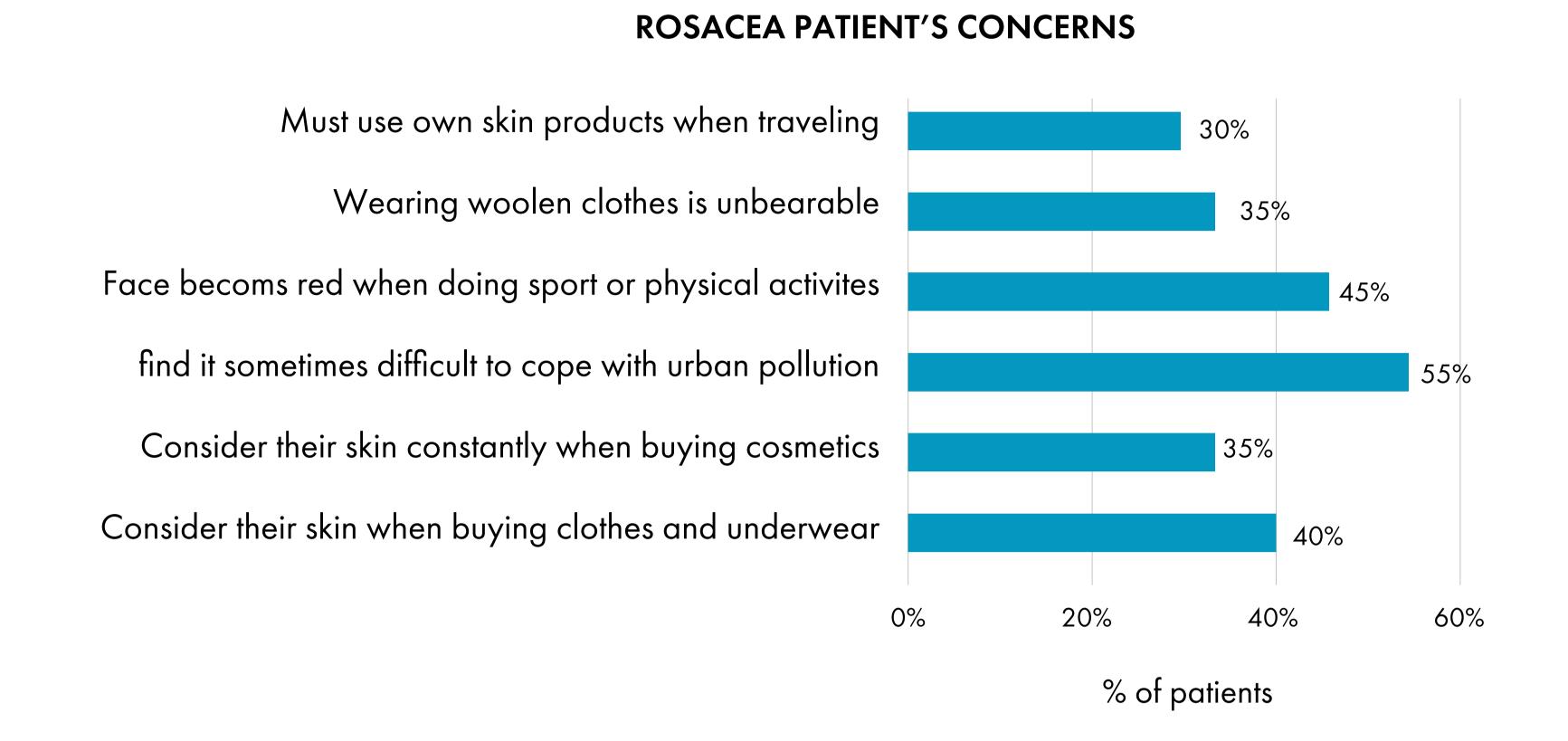
6 FACIAL DERMATOSES | 8 AESTHETIC PROCEDURES | ALL PHOTOTYPES | MEN & WOMEN

Split-face study in patients with rosacea and sensitive skin confirms clinical efficacy, skin hydration and excellent tolerance^{1,2}

TESTED EFFICACY AND SAFETY

SPLIT-FACE, RANDOMISED, CONTROLLED CLINICAL TRIAL

20 WOMEN WITH ROSACEA, ERYTHEMA AND SENSITIVE SKIN

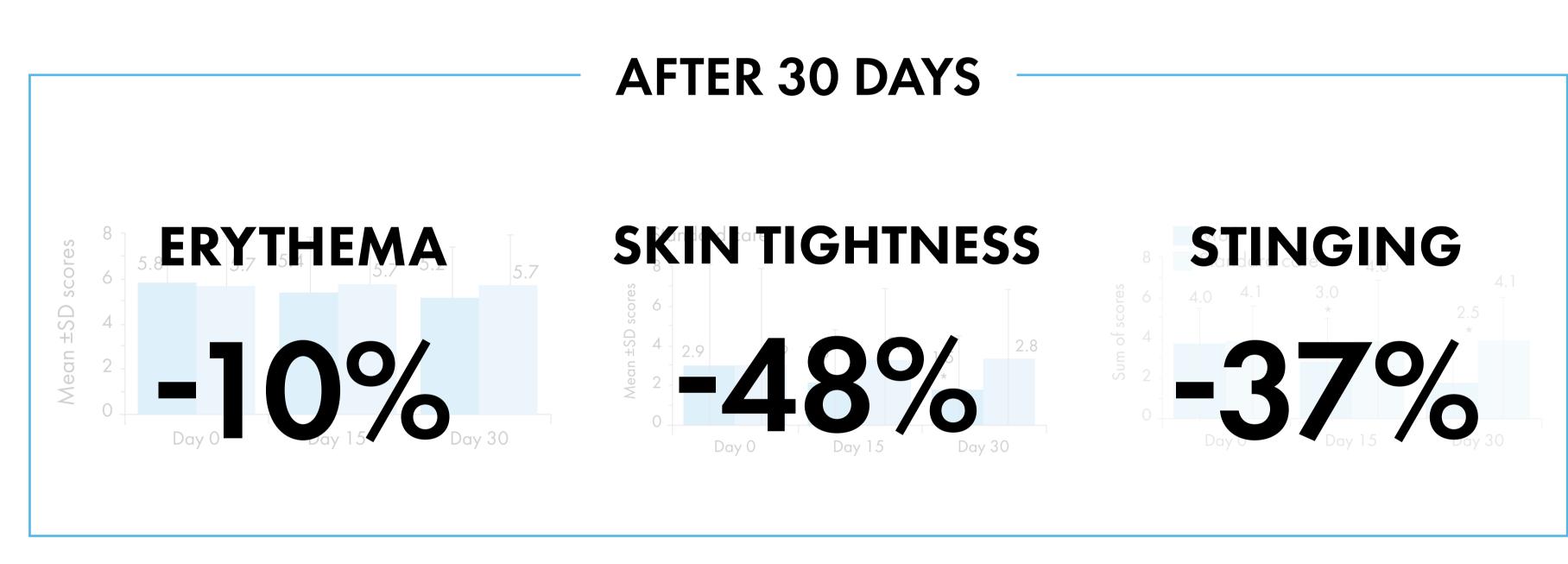


CONCLUSIONS

SIGNIFICANTLY IMPROVES CLINICAL SIGNS^{1,2}

STATISTICALLY SIGNIFICANT IMPROVEMENT IN

IJ LAIJ



SIGNIFICANTLY IMPROVES SKIN HYDRATION^{1,2}

MEASURED BY:

- CORNEOMETER
- GPSKIN BARRIER
- TRANSEPIDERMAL WATER LOSS (TEWL)

HIGH SUBJECTS SATISFACTION AND EXCELLENT TOLERANCE^{1,2}

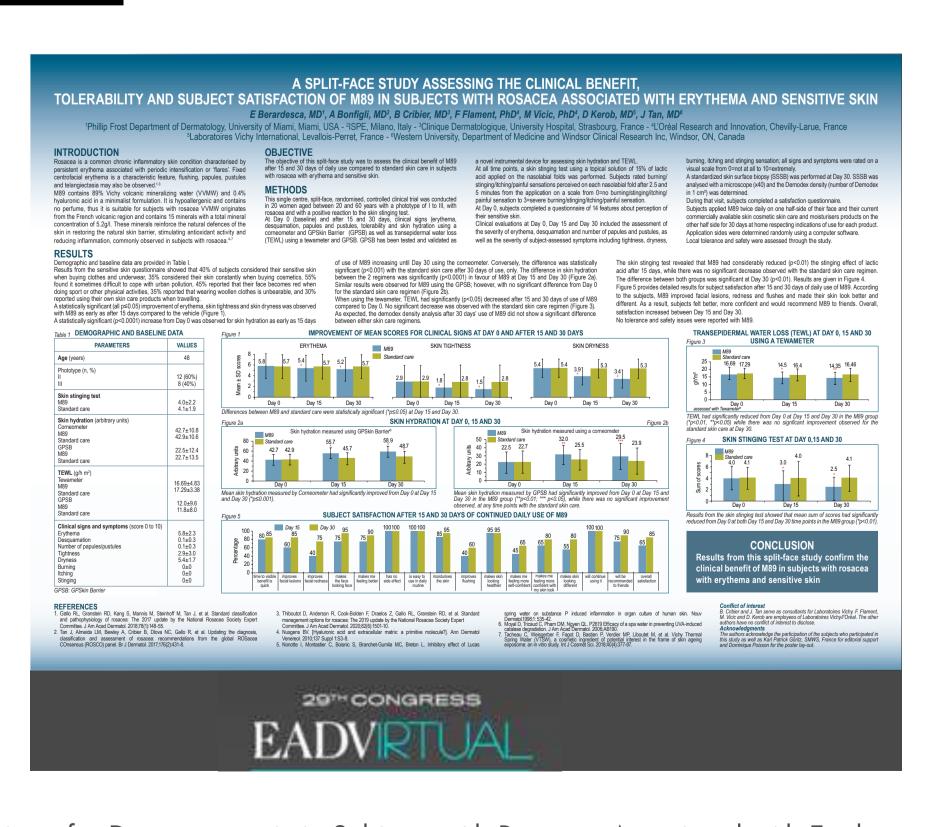
IMPROVEMENT OF:

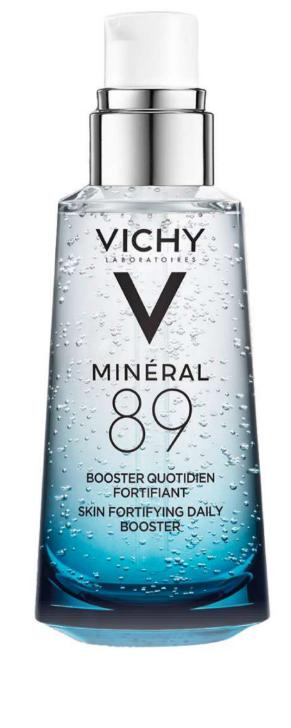
- FACIAL LESIONS
 - REDNESS
 - FLUSHES

PUBLICATION¹

POSTER²







1. Berardesca E. et al. A Split-Face Study Assessing the Clinical Benefit, Tolerability and Subject Satisfaction of a Dermocosmetic in Subjects with Rosacea Associated with Erythema and Sensitive Skin. Clin Cosmet Investig Dermatol. 2020;13:751-758. 2. Berardesca E. et al. A split-face study assessing the clinical benefit, tolerability and subject satisfaction of m89 in subjects with rosacea associated with erythema and sensitive skin. Poster 0423 at EADV. 2020

MINERAL 89 DAILY BOOSTER V



POSTER

MINERAL 89 BOOSTER IN-VIVO CLINICAL STUDY IN SUBJECTS WITH ROSACEA

A SPLIT-FACE STUDY ASSESSING THE CLINICAL BENEFIT, TOLERABILITY AND SUBJECT SATISFACTION OF M89 IN SUBJECTS WITH ROSACEA ASSOCIATED WITH ERYTHEMA AND SENSITIVE SKIN

AIM

The objective of this split-face study was to assess the clinical benefit of M89 after 15 and 30 days of daily use compared to standard skin care in subjects with rosacea with erythema and sensitive skin.

METHODS

- Single centre, split-face, randomised, controlled clinical trial
- 20 women aged between 20 and 60 years with a phototype of I to III, with rosacea and with a positive reaction to the skin stinging test.
- Application of Minéral 89 twice a day for 30 days versus usual skin care product
- Clinical evaluations: baseline, D15, D30 of:
 - efficacy (Erythema, desquamation, papules and pustules, skin tightness, dryness, burning sensation, itching, stinging test)
 - tolerability
- Instrumental evaluations: baseline, D15, D30 for skin hydration (Corneometer CM825 and Gpskin Barrier) and TEWL (Tewameter TM 300 MDD 4 and Gpskin Barrier)
- Satisfaction questionnaire: D15, D30

PANEL

- Demographic and baseline data are provided in Table I.
- Results from the sensitive skin questionnaire showed that 40% of subjects considered their sensitive skin when buying clothes and underwear, 35% considered their skin constantly when buying cosmetics, 55% found it sometimes difficult to cope with urban pollution, 45% reported that their face becomes red when doing sport or other physical activities, 35% reported that wearing woolen clothes is unbearable, and 30% reported using their own skin care products when travelling.



DEMOGRAPHIC AND BASELINE DATA

PARAMETRES	VALUES
Age (years)	48
Prototype (n, %)	
	12 (60%)
	8 (40%)
Skin stinging test	
M89	4.0 ± 2.2
Standard care	4.1 ± 1.9
Skin hydration (arbitrary units)	
Comeometer	
M89	42.7 ± 10.8
Standard care	42.9 ± 10.6
GP5B	
M89	22.5 ± 12.4
Standard care	22.7 ± 13.5
TEWL (g/h m²)	
Tewameter	16.69 ± 4.83
M89	17.29 ± 3.38
Standard care	
GP5B	12.0 ± 9.6
M89 Standard care	11.8 ± 8.0
Sidiladia Care	
Clinical signs and symptoms (score 0 to 10)	
Erythema	5.8 ± 2.3
Desquamation	0.1 ± 0.3
Number of papules/pustules	0.1 ± 0.3
Tightness	2.9 ± 3.0
Dryness	5.4 ± 1.7
Burning	0 ± 0
Itching Stinging	0 ± 0 0 ± 0
Stinging	0 - 0

GPSB: GPSkin Barrier

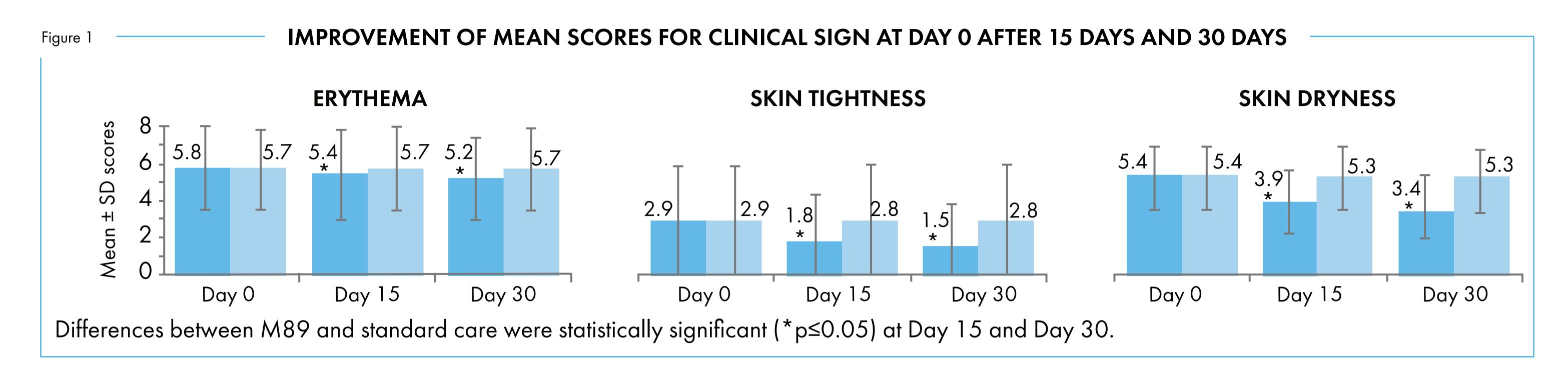
VICHY LABORATOIRES

5

MINERAL 89 BOOSTER

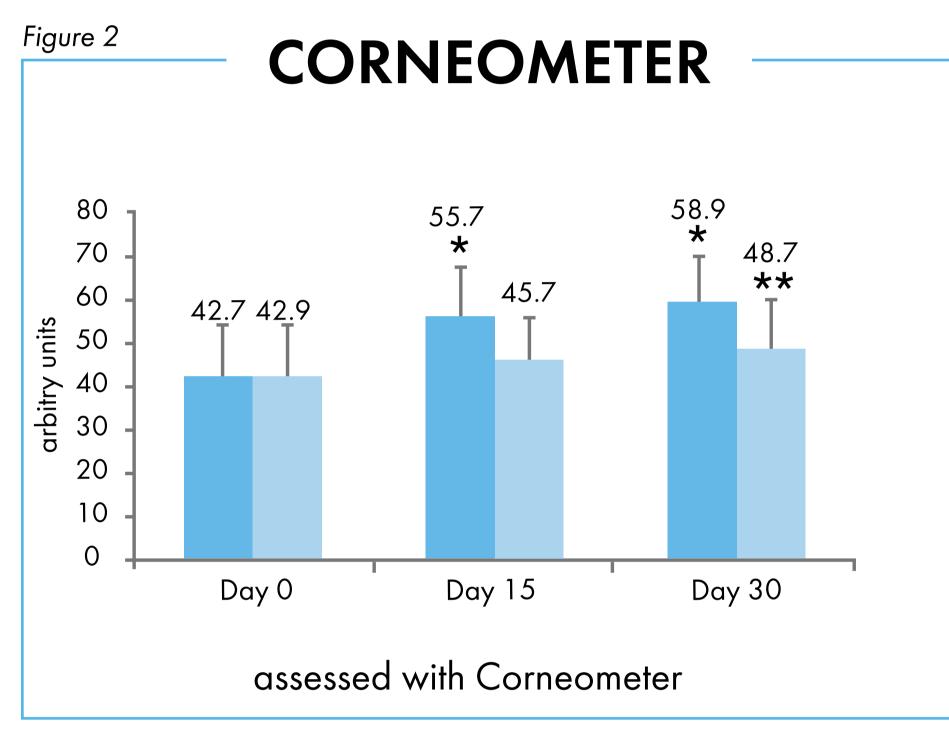
IN-VIVO CLINICAL STUDY IN SUBJECTS WITH ROSACEA

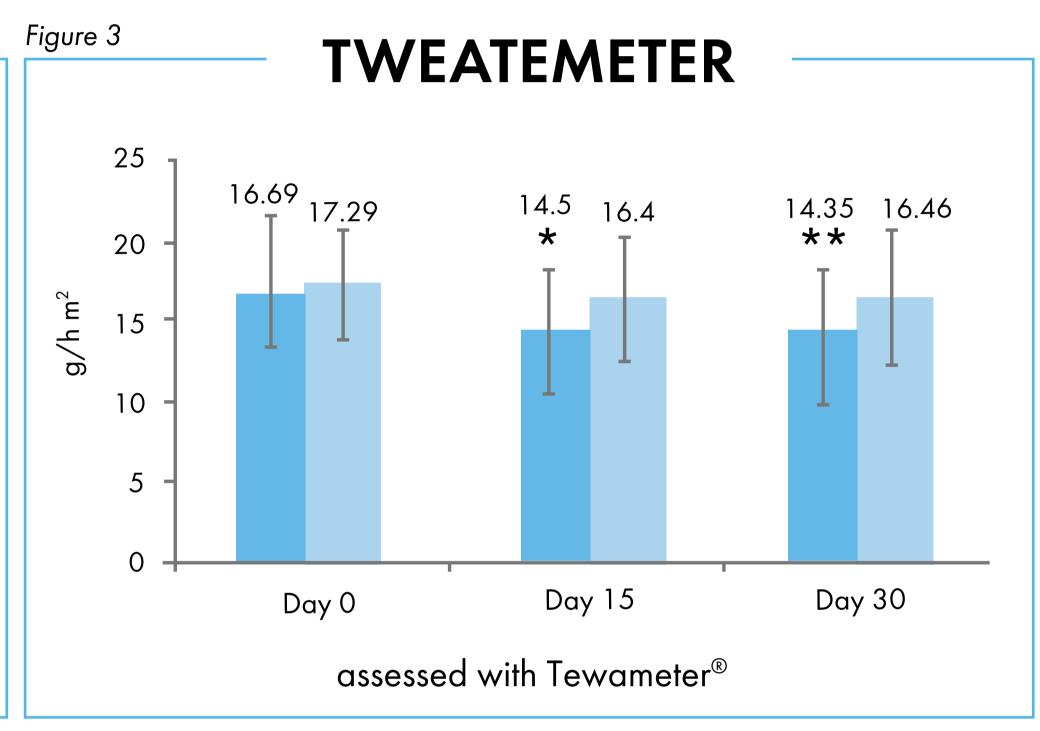
RESULTS

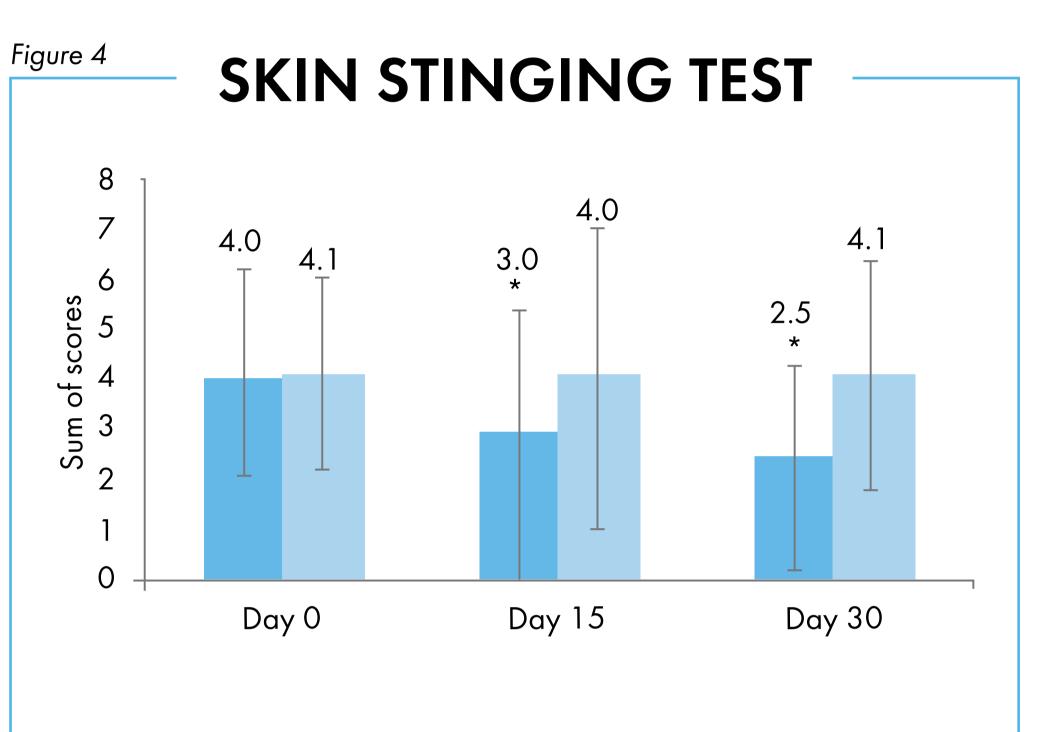


SKIN HYDRATION ASSESSMENT

SKIN BARRIER FUNCTION ASSESSMENT

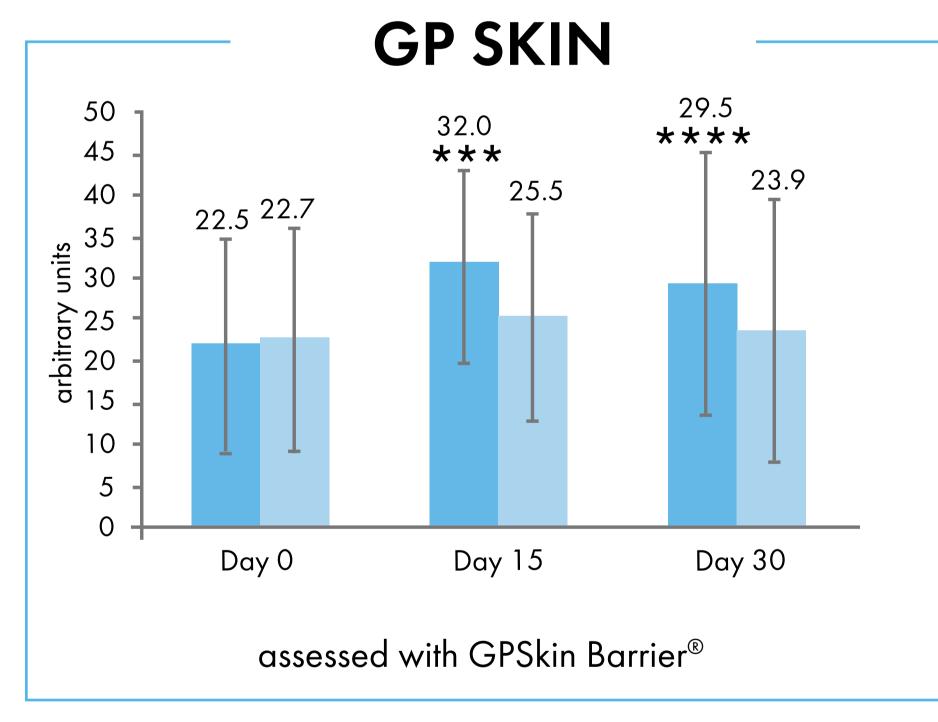


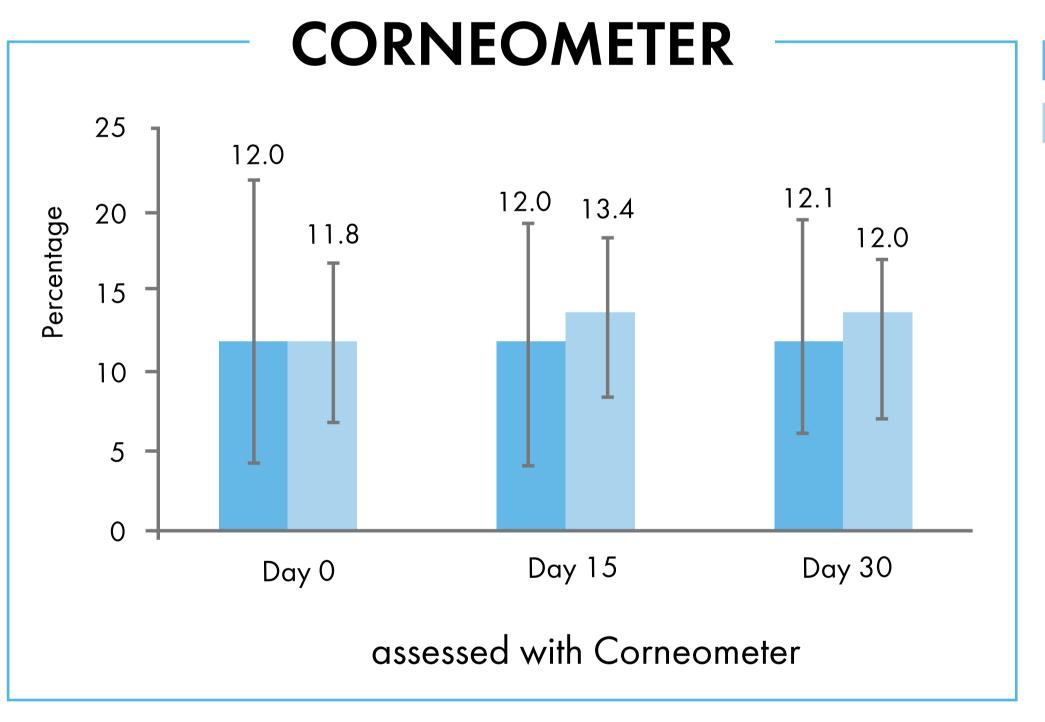


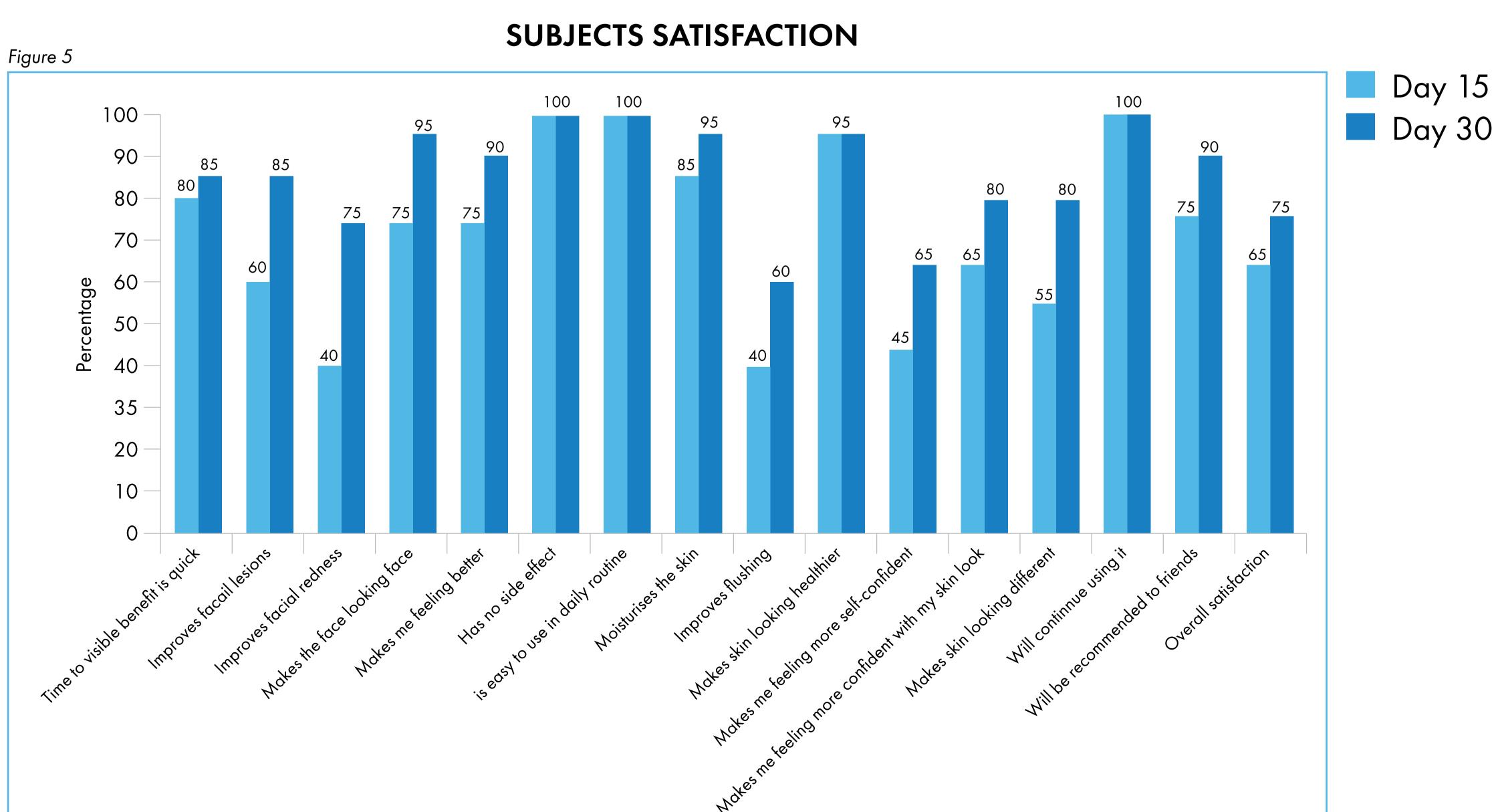


M89

Standard care







VICHY LABORATOIRES

MINERAL 89 DAILY BOOSTER IN-VIVO CLINICAL STUDY IN SUBJECTS WITH ROSACEA

CONCLUSION

MINÉRAL 89 BOOSTER IS EFFECTIVE AND WELL-TOLERATED IN SUBJECTS WITH ROSACEA WITH ERYTHEMA AND SENSITIVE SKIN IN A SPLIT-FACE CLINICAL STUDY WITH THE 1ST RESULTS NOTICED WITHIN 15 DAYS:

- Statistically significant improvement of erythema, skin tightness and skin dryness as early as after 15 days compared to the vehicle (all p≤0.05);
- Statistically significant increase skin hydration observed using the corneometer, as early as 15 days, increasing until Day 30 using the corneometer (p<0.0001);
- Statistically significant decrease in TEWL after 15 and 30 days (p<0.05), observed using the tewameter;
- Considerable reduction in the stinging effect of lactic acid after 15 days (p<0.01);
- According to the subjects, M89 improved facial lesions, redness and flushes skin look better and different;
- No tolerance and safety issues were reported with M89



3.927 PATIENTS | 20 SCIENTIFIC STUDIES | 325 DERMATOLOGISTS | 22 COUNTRIES

6 FACIAL DERMATOSES | 8 AESTHETIC PROCEDURES | ALL PHOTOTYPES | MEN & WOMEN

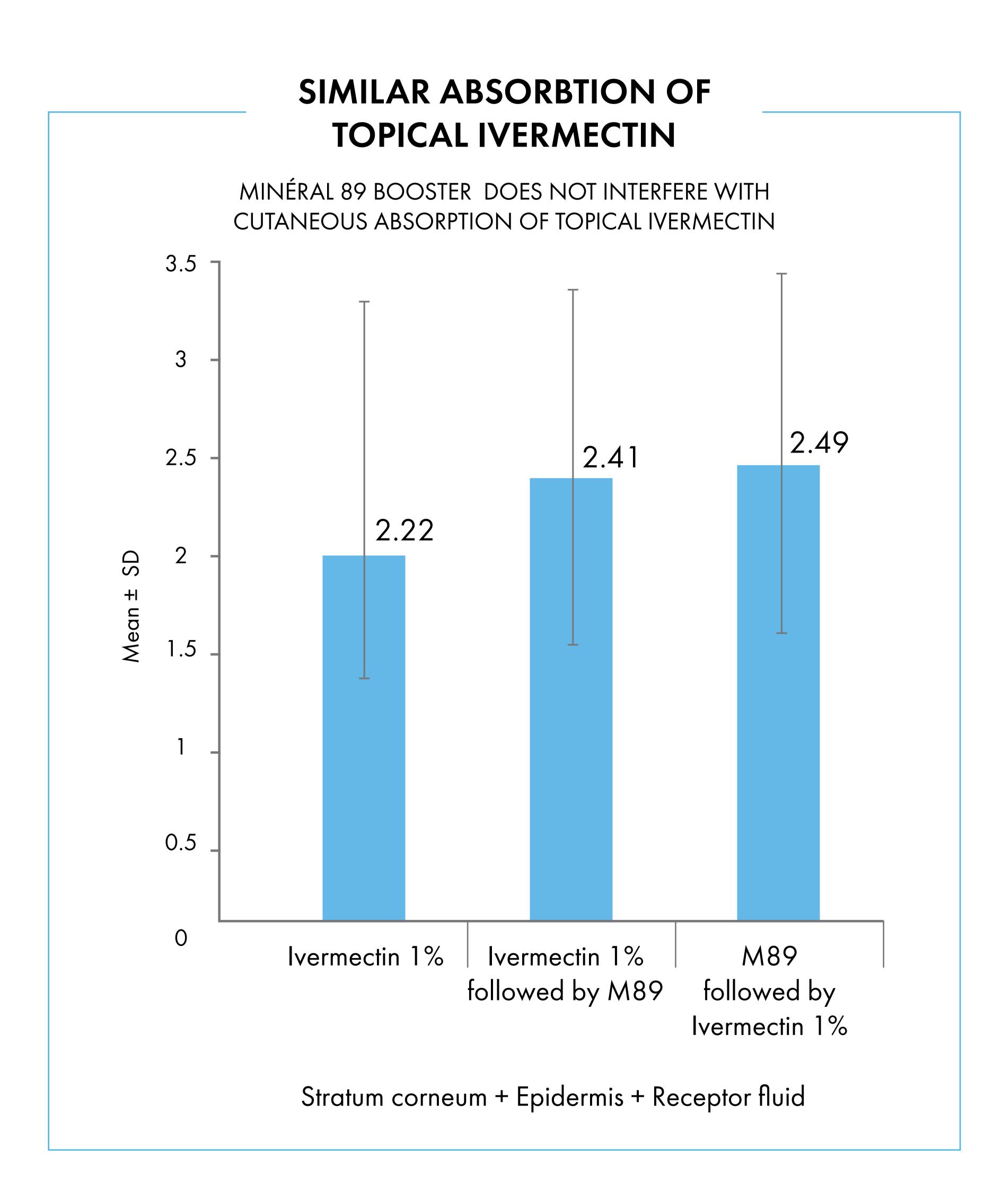
Ex Vivo Study demonstrating no interference with skin absorption and distribution of ivermectin

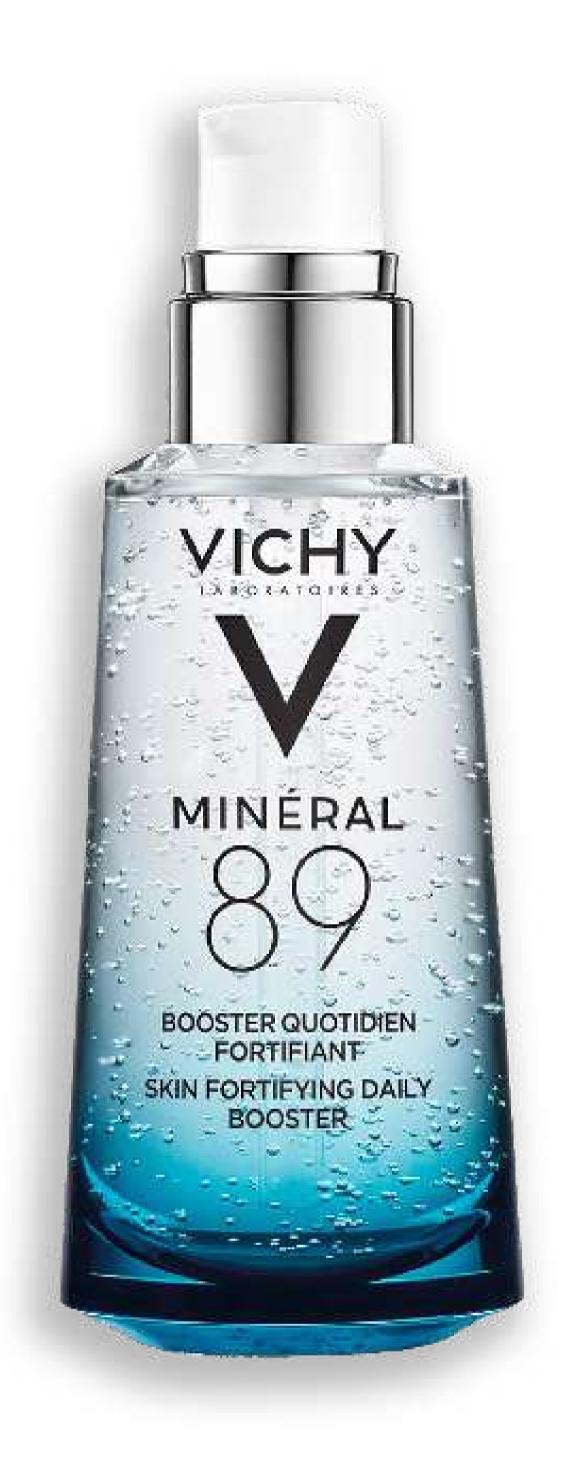
EX-VIVO STUDY

ON FULL THICKNESS OF HUMAN SKIN SAMPLES (3 DONORS)

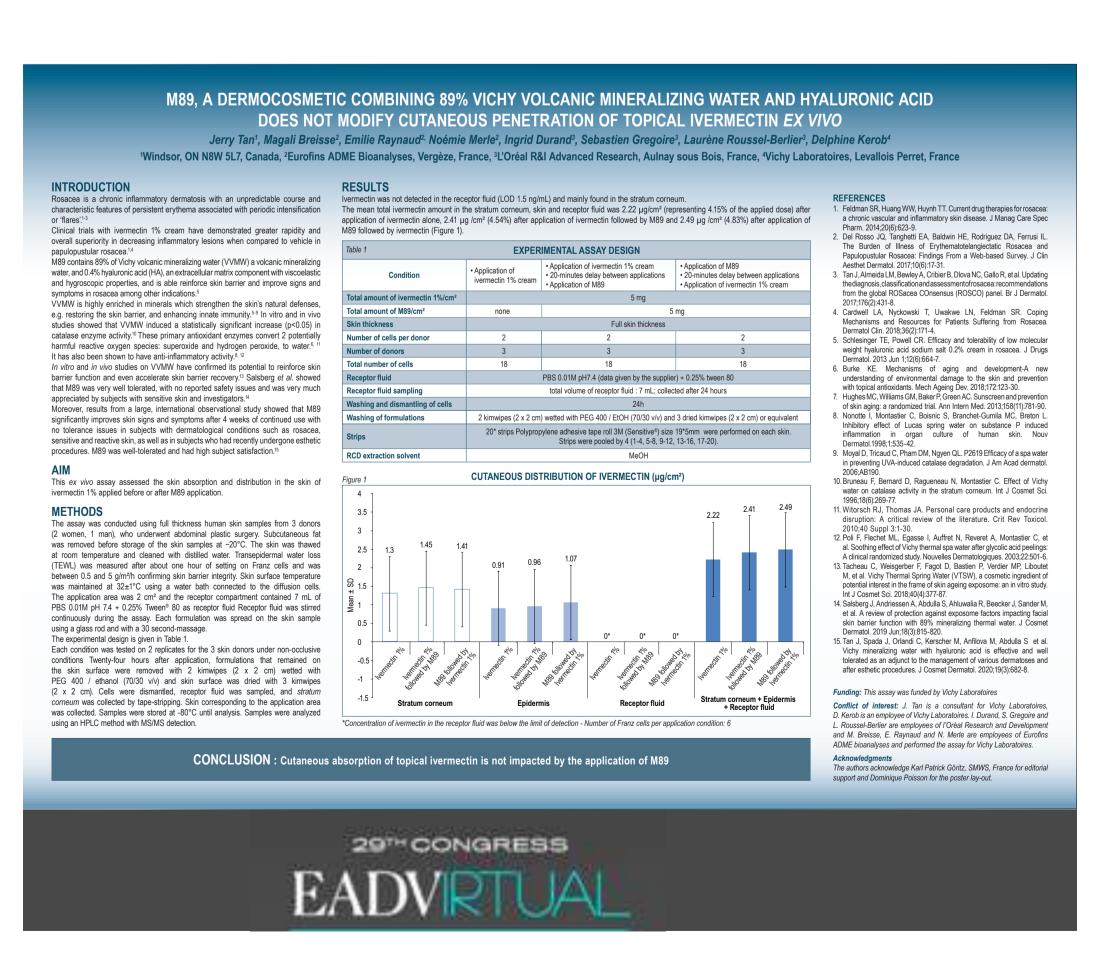
IVERMECTIN 1% APPLIED BEFORE OR AFTER MINÉRAL 89 BOOSTER

CONCLUSIONS





POSTER¹



1. Tan J. et al. Mineral 89: A dermocosmetic combining 89% vichy volcanic mineralizing water and hyaluronic acid Does not modify cutaneous penetration of topical ivermectin ex vivo. Poster PO421 at EADV 2020.



MINERAL 89 BOOSTER EX-VIVO ASSESSEMENT OF IVERMECTIN PENETRATION

MINERAL 89: A COMBINATION OF 89% OF VICHY VOLCANIC MINERALIZING WATER AND HYALURONIC ACID DOES NOT MODIFY CUTANEOUS PENETRATION OF TOPICAL IVERMECTIN EX VIVO

AIM

This ex vivo assay assessed the skin absorption and distribution in the skin of ivermectin 1% applied before or after M89 application.

METHODS

The assay was conducted using full thickness human skin samples from 3 donors (2 women, 1 man), who underwent abdominal plastic surgery.

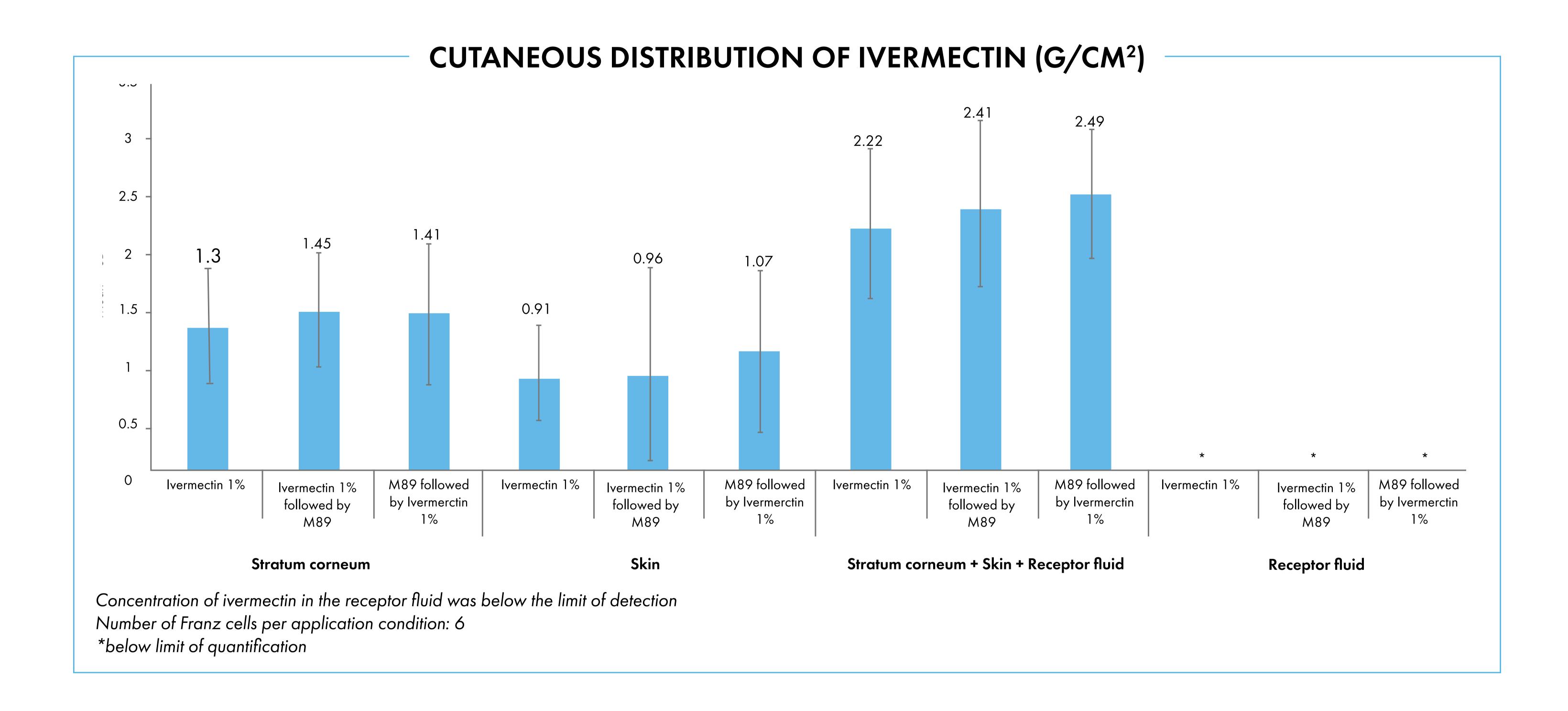
STUDY DESIGN

Condition	Application of ivermectin 1% cream	 Application of ivermectin 1% cream 20-minutes delay between applications Application of M89 	 Application of M89 20-minutes delay between applications Application of ivermectin 1% cream
Total amount of ivermectin 1% / cm ²		5 mg	
Total amount of M89 / cm ²	None	None 5 mg	
Skin thickness			
Number of cells per donor	2	2	2
Number of donors	3	3	3
Total number of cells	18	18	18
Receptor fluid	PBS 0.01 M pH 7.4 (data given by the supplier) + 0.25% tween 80		
Receptor fluid sampling	total volume of receptor fluid: 7 mL; collected after 24 hours		
Washing and dismantling of cells	24h		
Washing of formulations	2 kimwipes (2 x 2 cm) wetted with PEG 400 / EtOH (70/30 v/v) and 3 dried kimwipes (2 x 2 cm) or equivalent		
Strips	20* strips Polypropylene adhesive tape roll 3M (Sensitive®) size 19*5mm were performed on each skin. Strips were pooled by 4 (1-4, 5-8, 9-12, 13-16, 17-20).		
RCD extraction solvent	MeOH		

^{1.} Tan J. et al. Mineral 89: A dermocosmetic combining 89% vichy volcanic mineralizing water and hyaluronic acid Does not modify cutaneous penetration of topical ivermectin ex vivo. Poster PO421 at EADV 2020.

MINERAL 89 BOOSTER EX-VIVO ASSESSEMENT OF IVERMECTIN PENETRATION

RESULTS



CONCLUSION



MINÉRAL 89 DAILY BOOSTER DOES NOT INTEREFERE WITH THE CUTANEOUS ABSORPTION OF TOPICAL IVERMECTIN

- Ivermectin was not detected in the receptor fluid (LOD 1.5 ng/mL) and mainly found in the stratum corneum.
- The cutaneous distribution of ivermectin was not different as the mean total ivermectin amount in the stratum corneum, skin and receptor fluid was:
 - -2.22 µg/cm² (representing 4.15% of the applied dose) after application of ivermectin alone,
 - $-2.41 \mu g / cm^2 (4.54\%)$ after application of ivermectin followed by M89,
 - -2.49 µg /cm² (4.83%) after application of M89 followed by ivermectin.

