IMAGING EXCELLENCE FROM

CANFIELD

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VISIA^{CRP} Generation 5

Presented by Canfield Scientific

VISIA®-CR

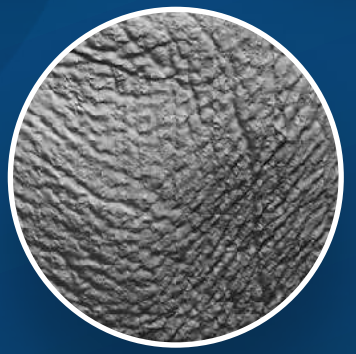
Your Comprehensive Solution for Qualitative and Quantitative Facial Imaging Assessments

Acne Vulgaris

Aesthetics

Vitiligo

Skin Quality



Dynamic Expression

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System Specifications

Rotational imaging housing

- Position subject once, rotate around subject
- Modular head support / subject indexing system

Multiple capture systems

- Canon R5
  - 2D still: 45MP full-frame Dual-Pixel CMOS
  - Video: 4k @ 120 fps, 8k @ 30 fps
- Primos 300 *(optional)*
  - 3D FOV: 200x300 mm @ 80µm
- ‘Lateral’ alignment cameras (8mp)
  - additional profile views for positioning

LED ‘flash’ illumination

- Low energy, high stability

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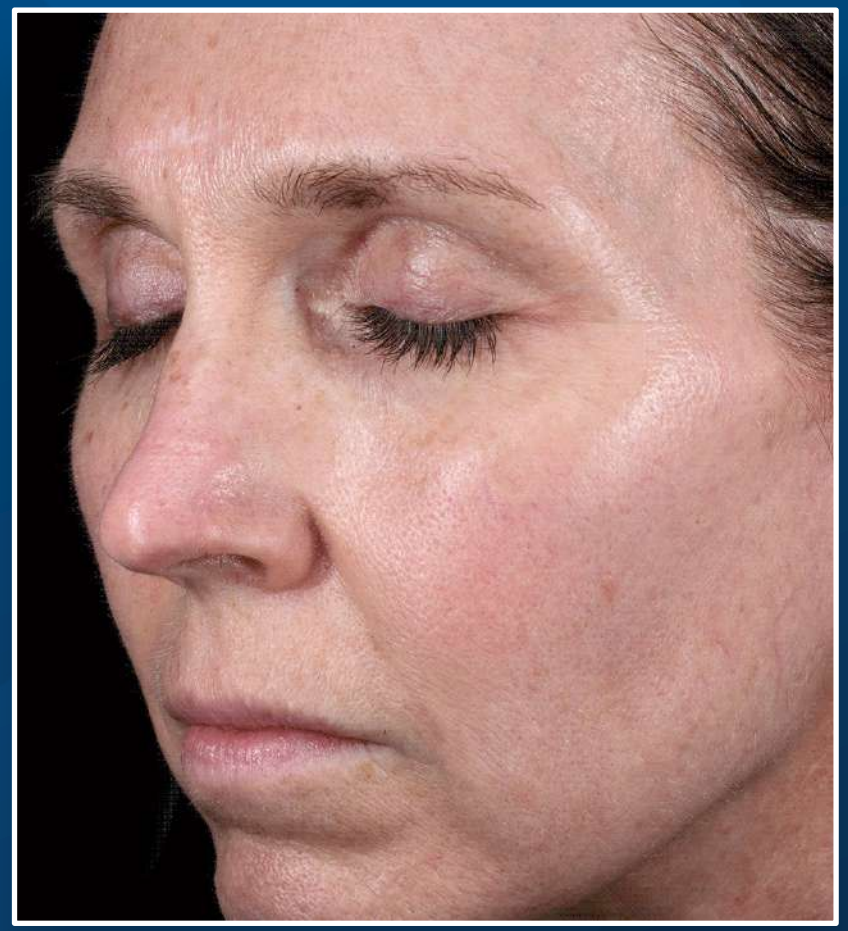
Comprehensive Solution for Qualitative and Quantitative Facial Imaging Assessments



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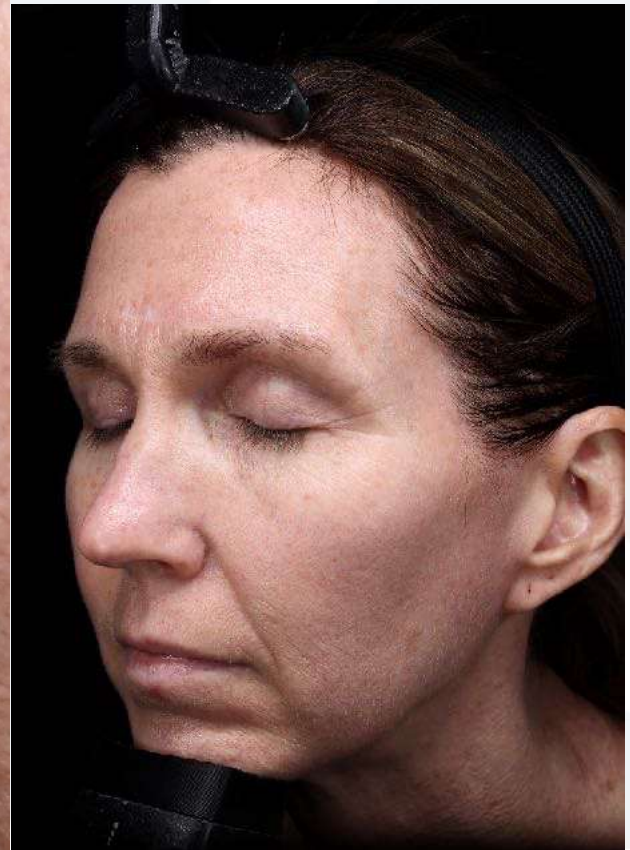
Lighting Modes

Standard Clinical

A white light photograph, the typical “clinical” photo.

Provides balanced lighting for qualitative visual assessment of most skin features.



Raked

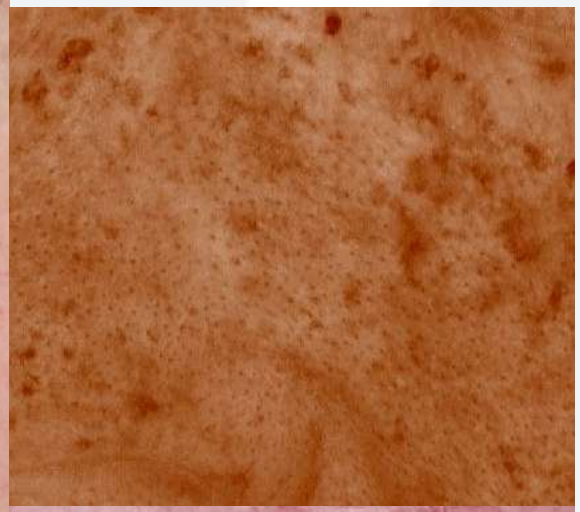
A white light photograph illuminating the face similar to natural lighting.

Enhance topographical skin attributes including fine lines, wrinkles, and texture.

Cross Polarized

Polarized strobes captured through a perpendicular-polarized lens.

Attenuates surface reflections for superior visualization of sub-surface details (erythema, inflammatory lesions, telangiectasia and Hyper/Hypo-pigmentation).



RBX Processing

RBX is a proprietary color transform model that displays discreet red and brown information from the cross-polarized image

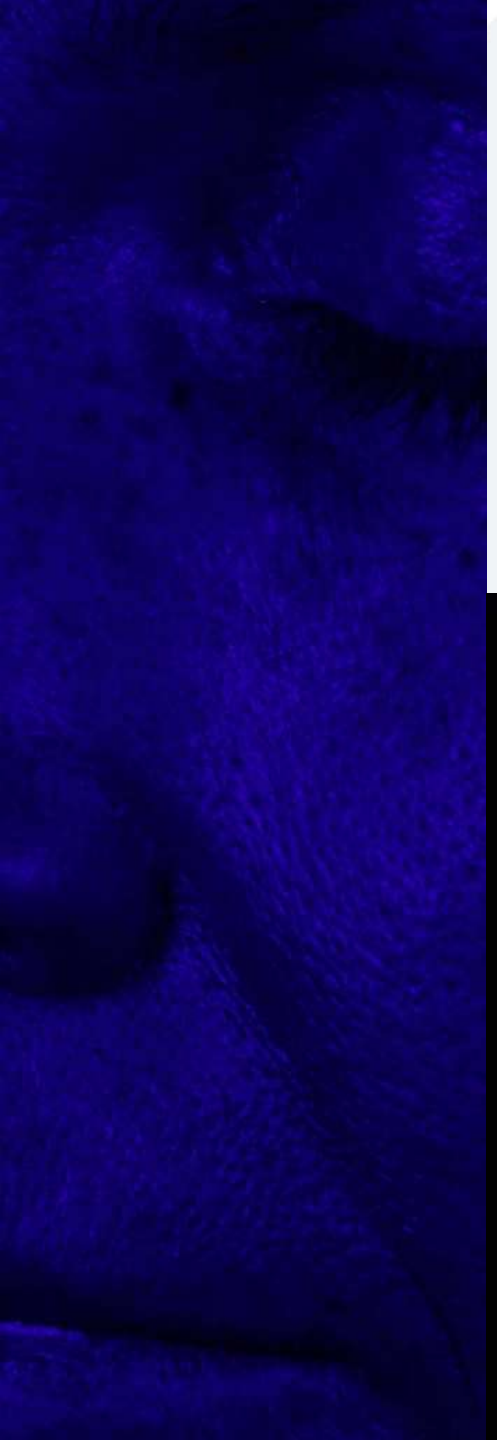
Red correlates to vascular conditions

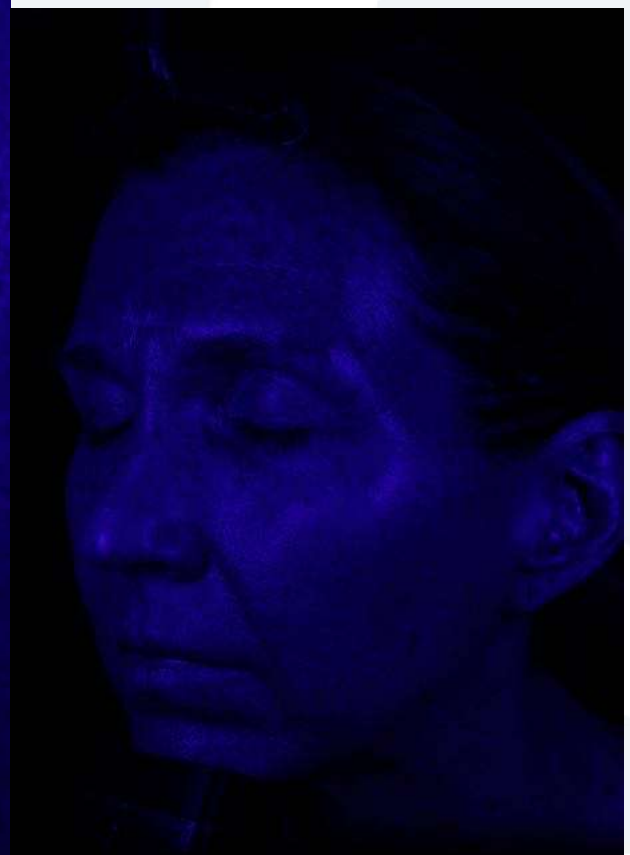
Brown correlates to melanin condition

Parallel Polarized

Polarised strobes captured through a parallel-polarised lens.

Accentuates surface reflections for superior visualization of topographical information (skin texture, wrinkles, fine lines, pores, etc.) as well as oiliness and shine

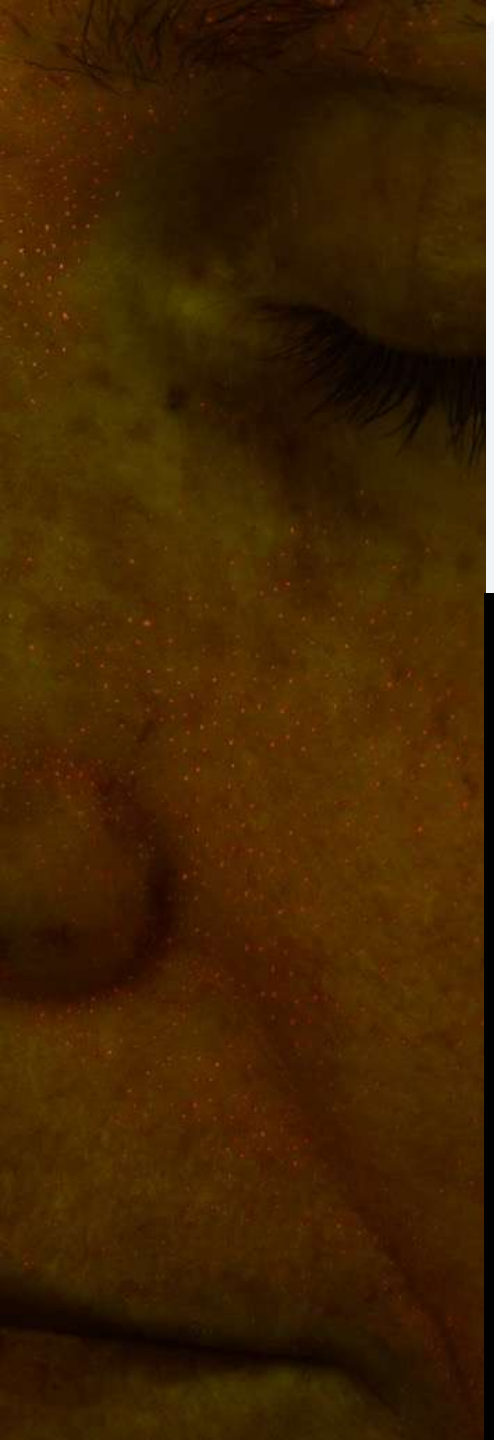




Blue Absorption

Narrow Band Blue (405 ±10 nm) strobes captured through an unattenuated lens

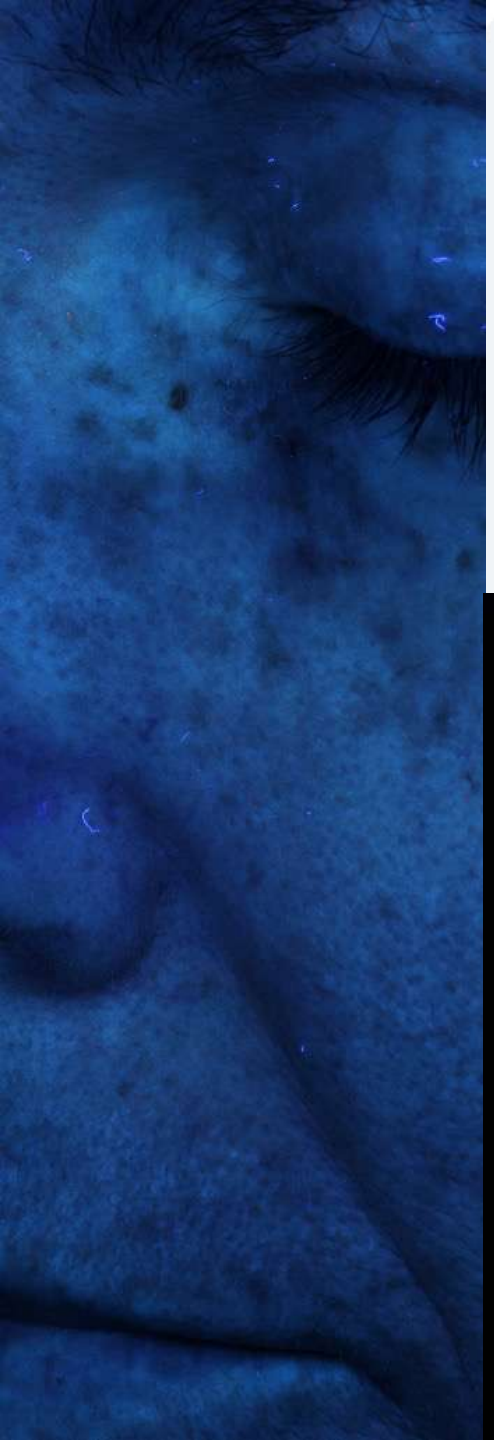
Absorption image enhances the visualisation of superficial pigmentation

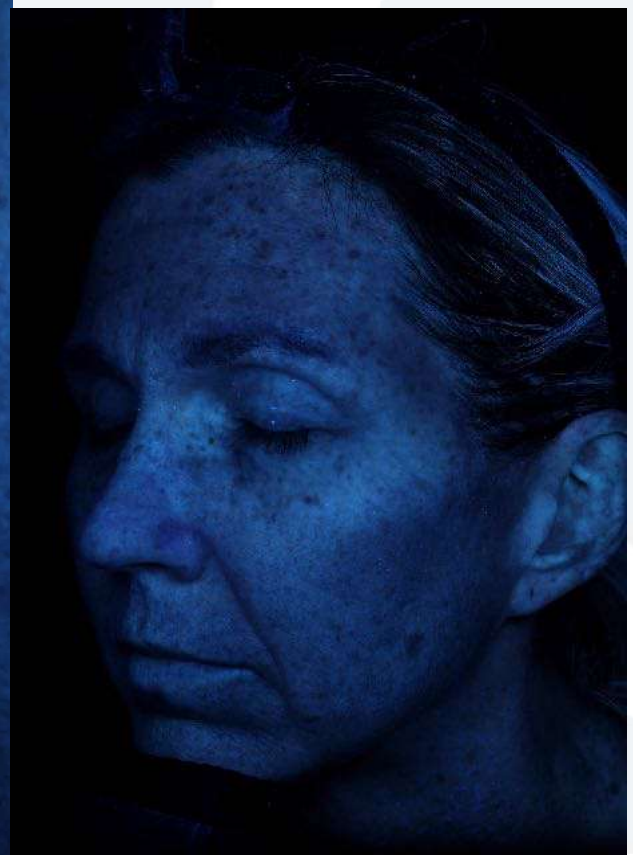


Blue Fluorescence

Narrow Band Blue (405 ±10 nm) strobes captured through a filtered lens

This fluorescence image is geared towards enhancing the visibility of Protoporphyrin-IX (PPIX) and Coproporphyrin-III (CPIII - p. acne)

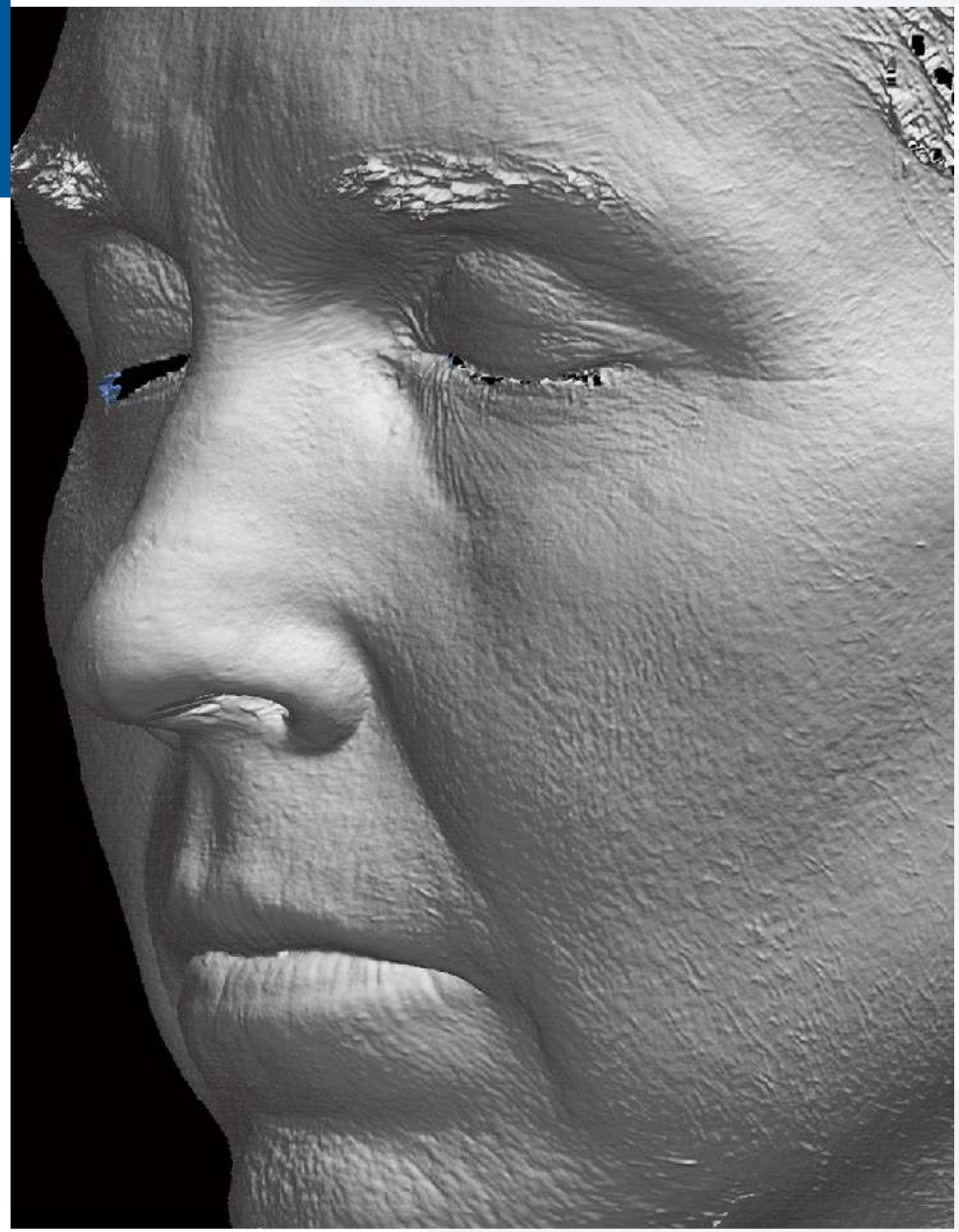




UVA Absorption

UVA (365 ±10 nm) strobes captured through an un-attenuated lens

This absorption image enhances visualisation of superficial pigmentation.



PRIMOS 300 *optional

- 3D FOV: 200x300mm @ 80µm
- Micron-resolution capture of skin topography
- Enables quantitative and objective measurements: volume, surface area, roughness, texture

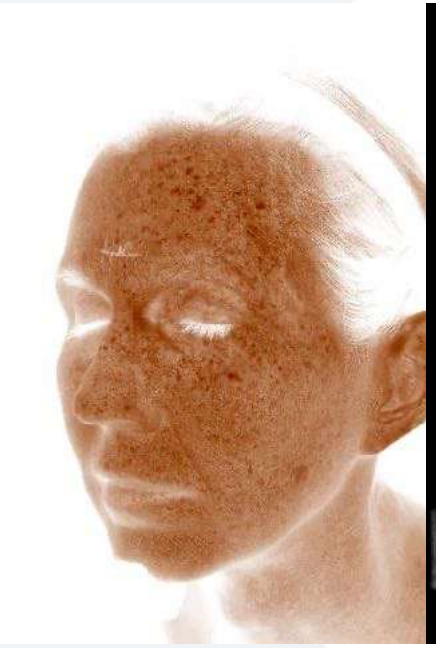
Primos 300*

*Optional

Canfield can create full face 3D image and apply any of the color skin textures for marketing and objective measurements

Processed Images –

RBx Red



RBx Brown

Blue Absorption

CP-III

PP-XI

UV Absorption

VISIA^{CRP} | Analysis Examples

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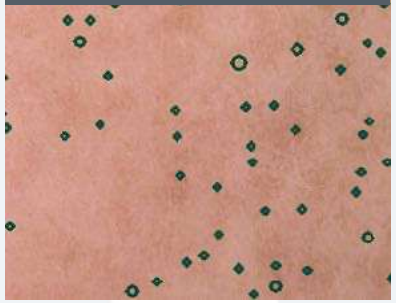
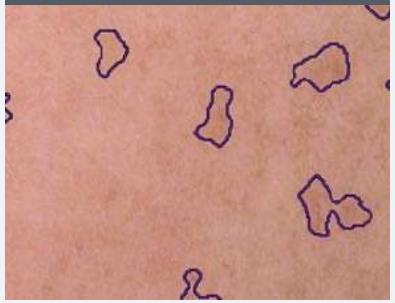
2D Analysis

Wrinkles
fine lines and wrinkles severity

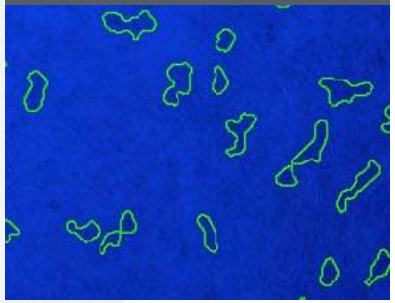
Pores
visible under standard lighting conditions



Spots (visible)
visible under standard lighting conditions

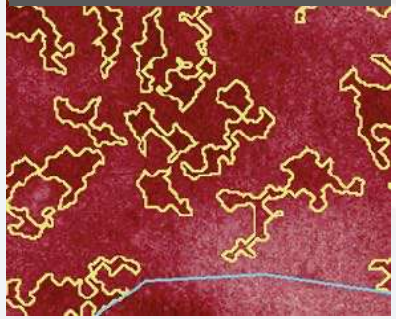


Spots (blue)
hyperpigmented spots visible under blue lighting

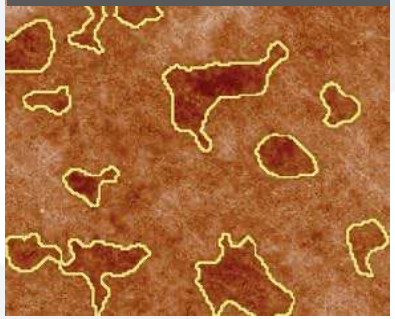


Spots (UVA)
hyperpigmented spots visible under UVA lighting

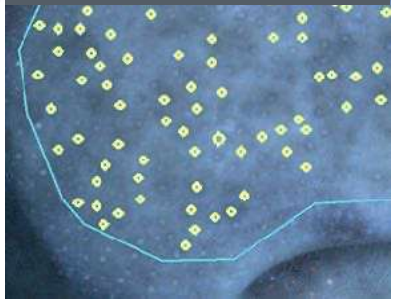
RBX Red
vascular features & spots derived from RBX



RBX Brown
hyperpigmented spots derived from RBX



Porphyrins (UVA)
microbial activity visible under UVA lighting



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VISIA CRP
Wrinkle Detection

Expression: Big Smile
Lighting Modality: Standard 1

VISIA CRP
Wrinkle Detection

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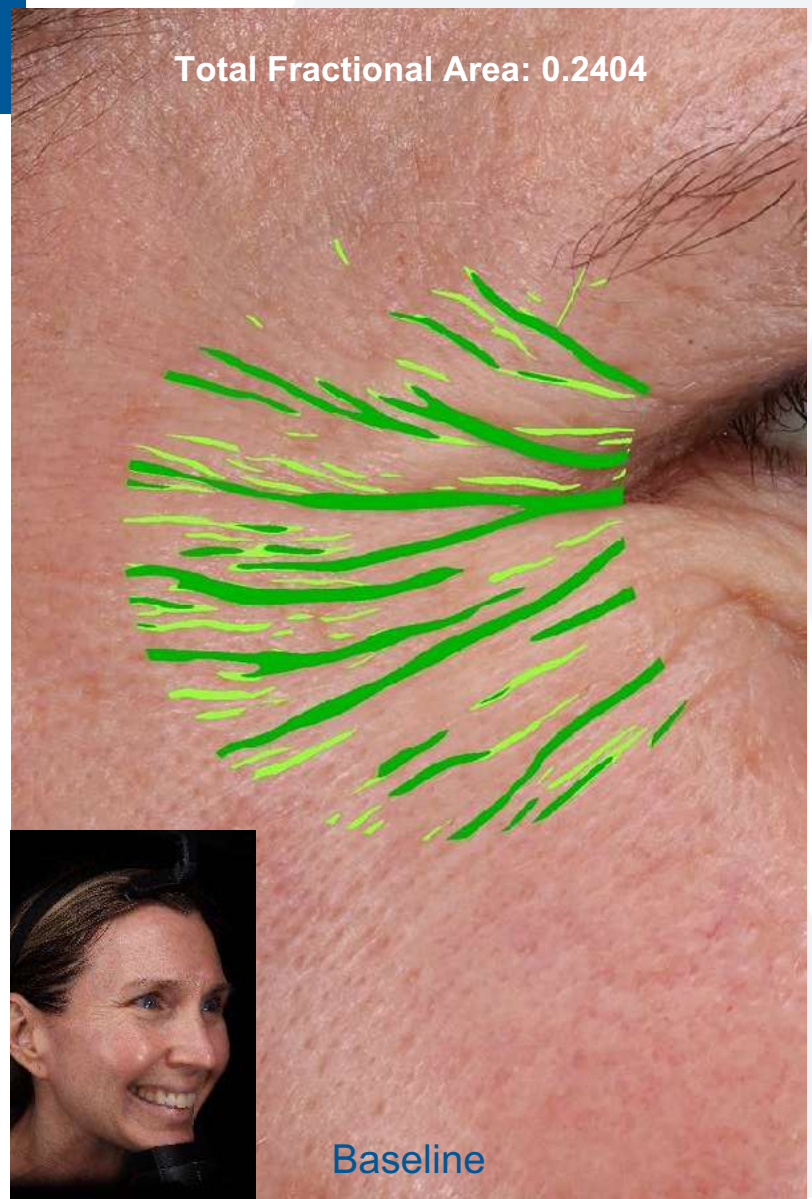
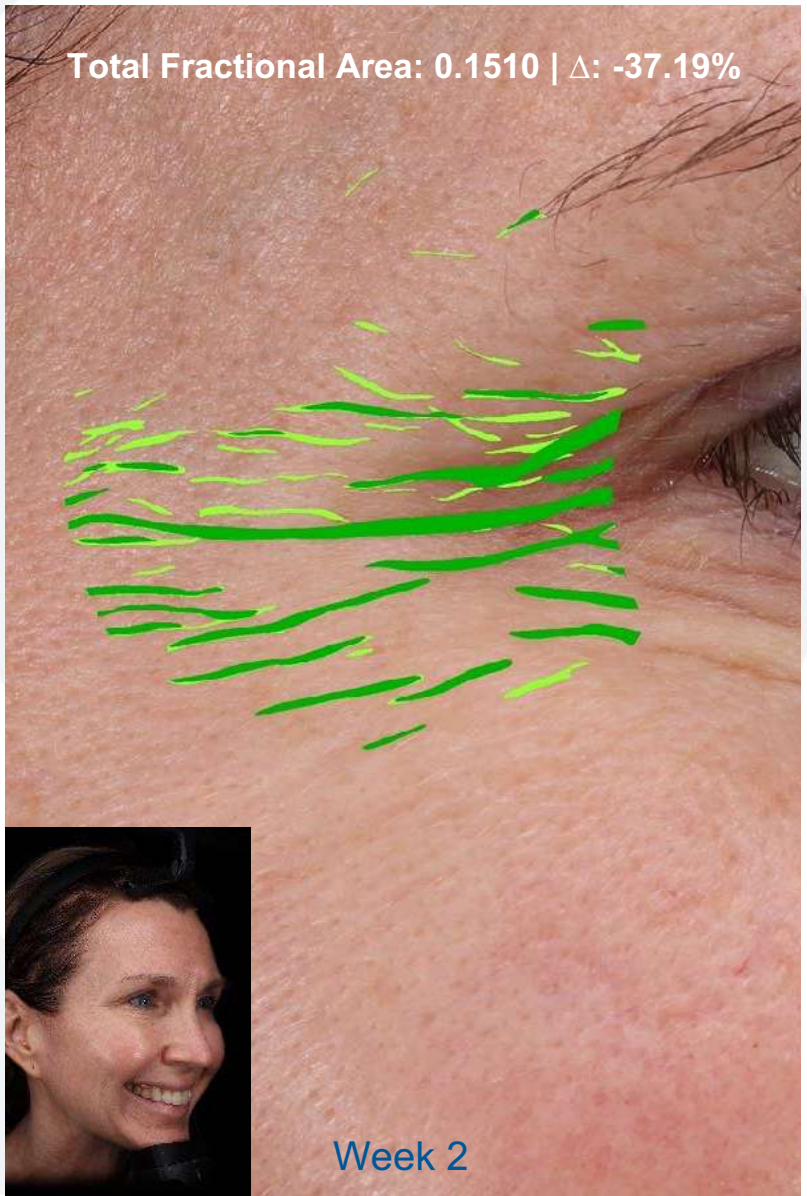
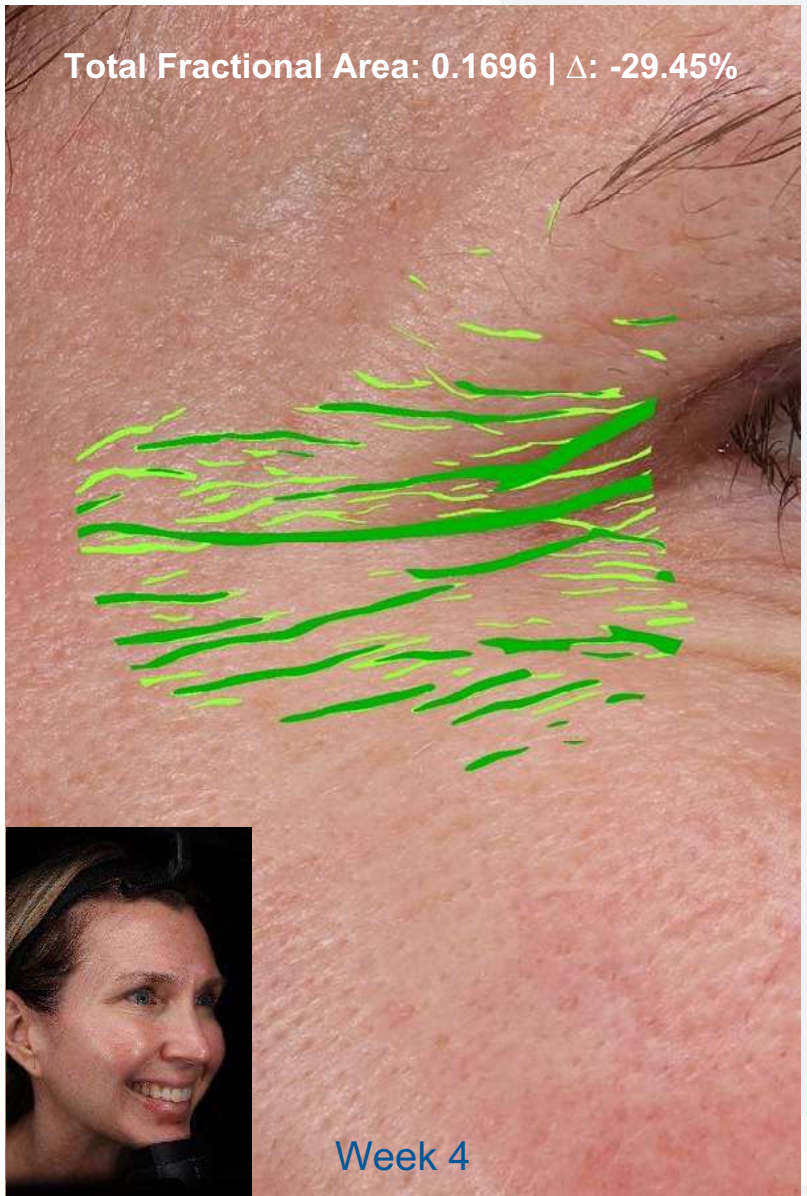
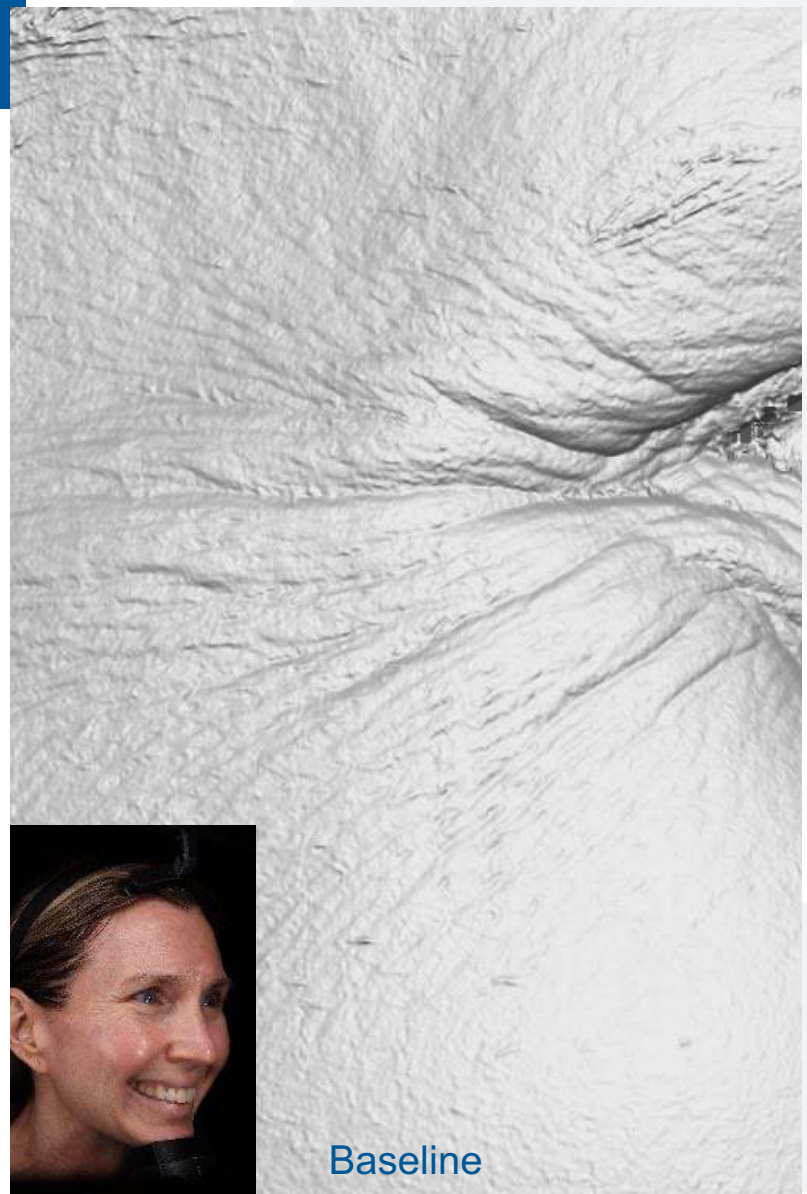




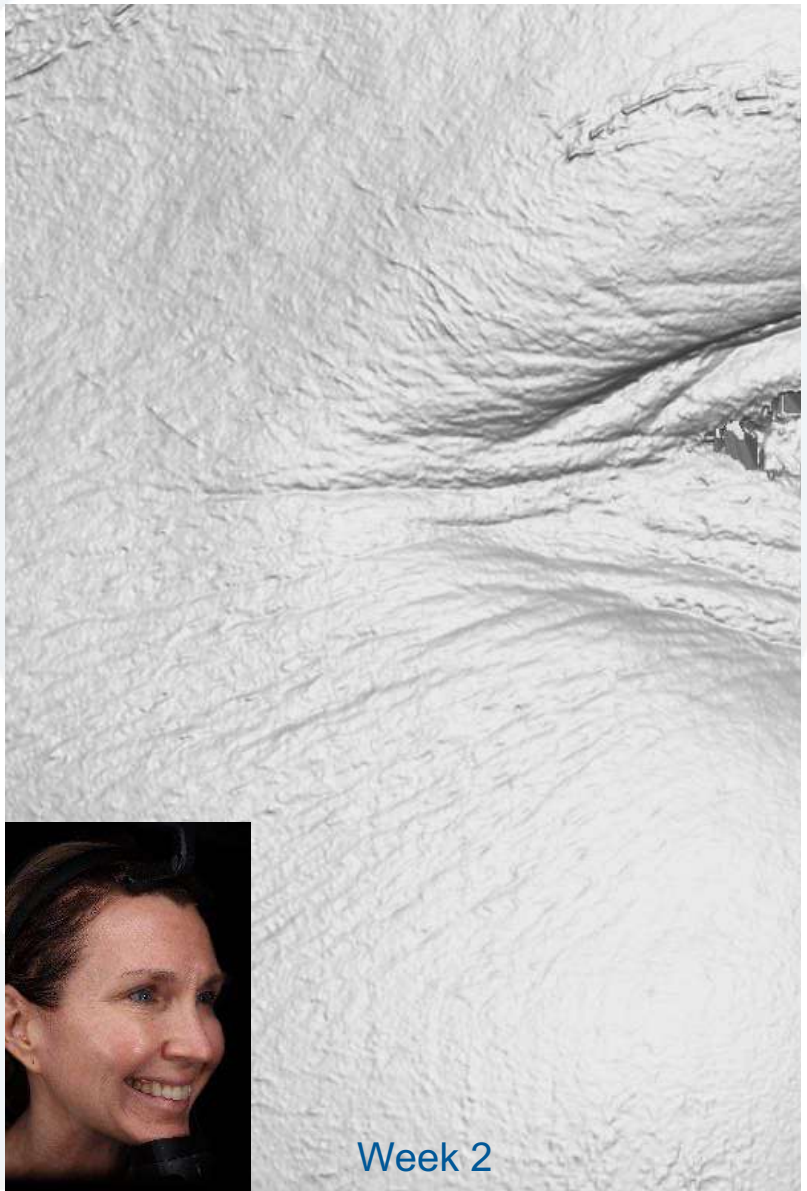


VISIA CRP
Wrinkle Detection

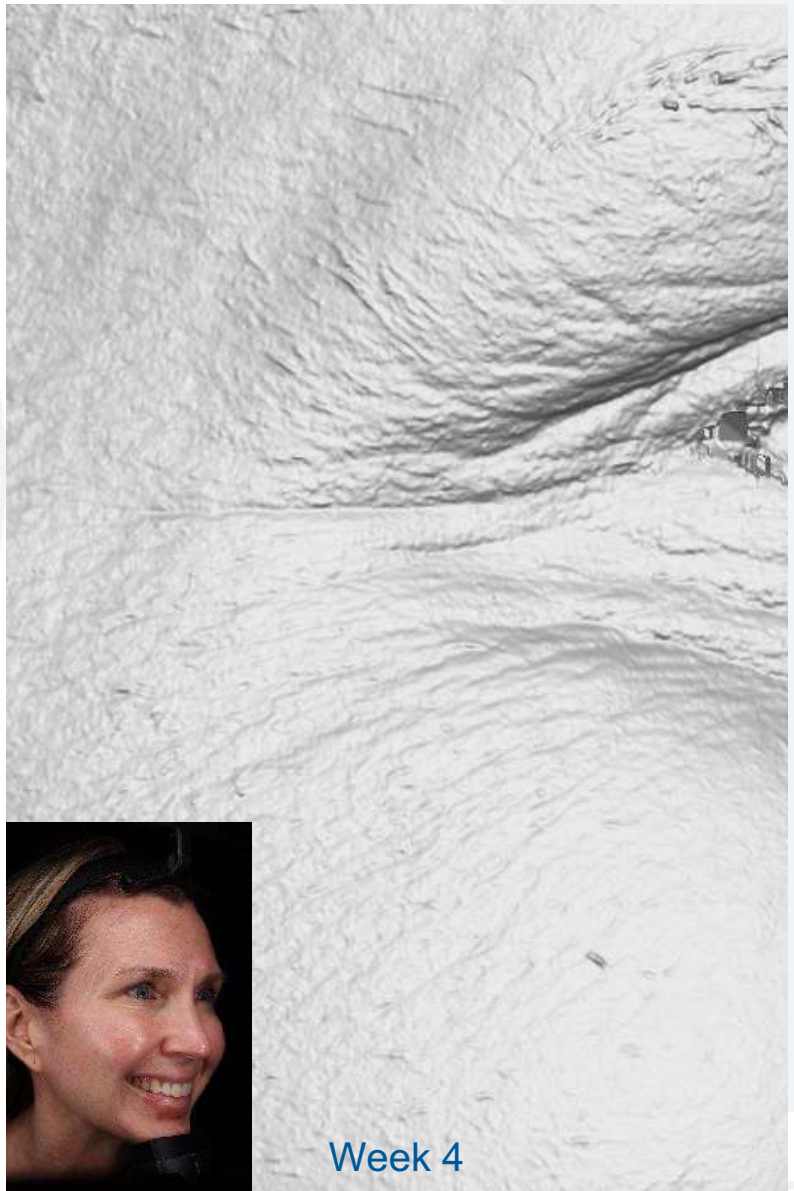
Expression: Big Smile
Lighting Modality: PRIMOS



Baseline



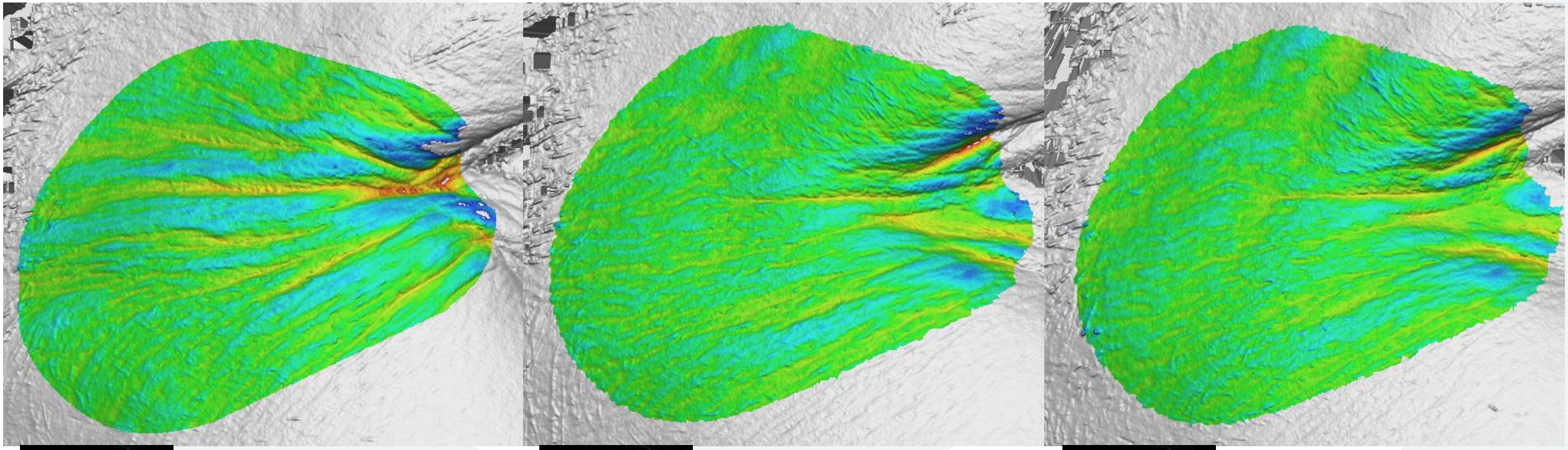
Week 2



Week 4

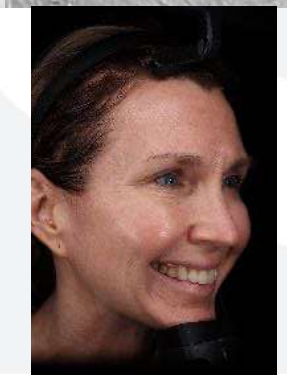
VISIA CRP
Primos Analysis

Expression: Big Smile
Lighting Modality: PRIMOS



Roughness (PA): 0.1348

Baseline



Roughness (PA): 0.1020
Δ: -24.33%

Week 2

Roughness (PA): 0.0989
Δ: -26.63%

Week 4

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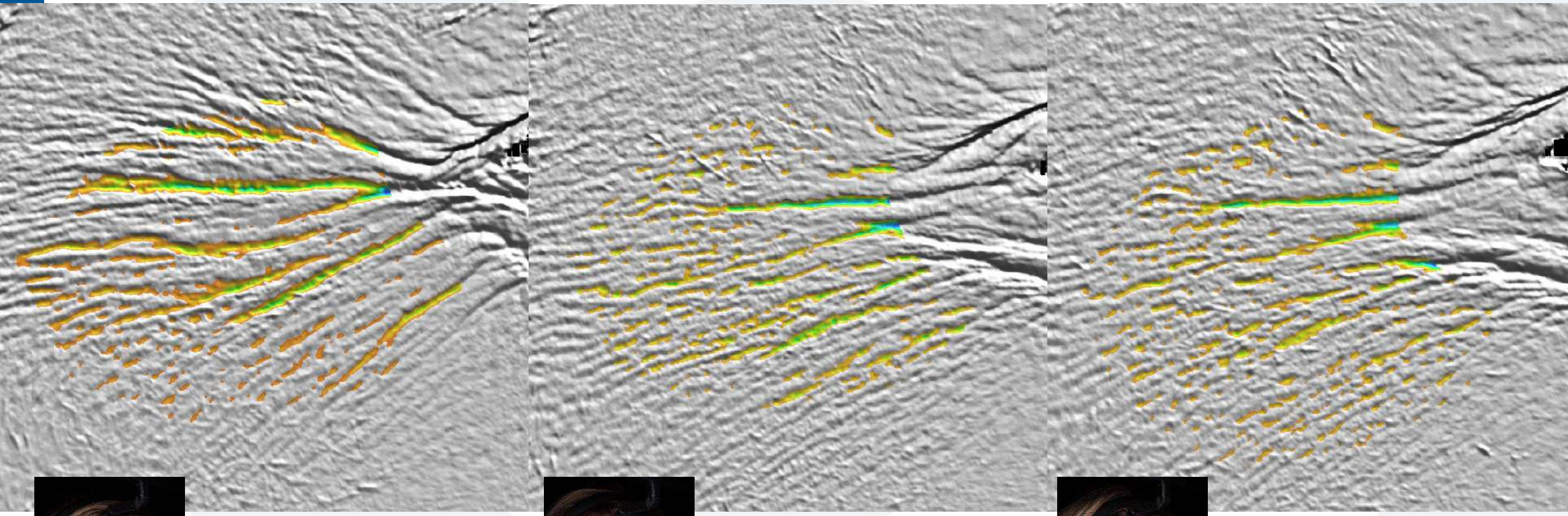
VISIA CRP

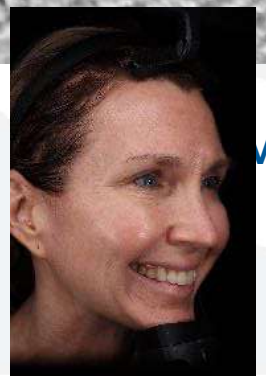
Primos Analysis

Expression: Big Smile
Lighting Modality: PRIMOS



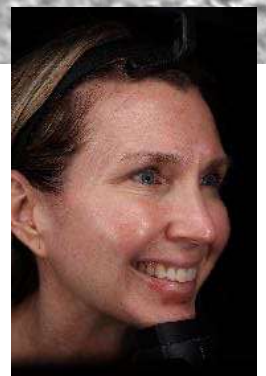
Volume: 13.61mm³
Area: 136.89cm²

Baseline



Volume: 7.25mm³ | Δ: -46.68%
Area: 98.20cm² | Δ: -28.26%

Week 2



Volume: 6.70mm³ | Δ: -50.74%
Area: 91.72cm² | Δ: -32.99%

Week 4

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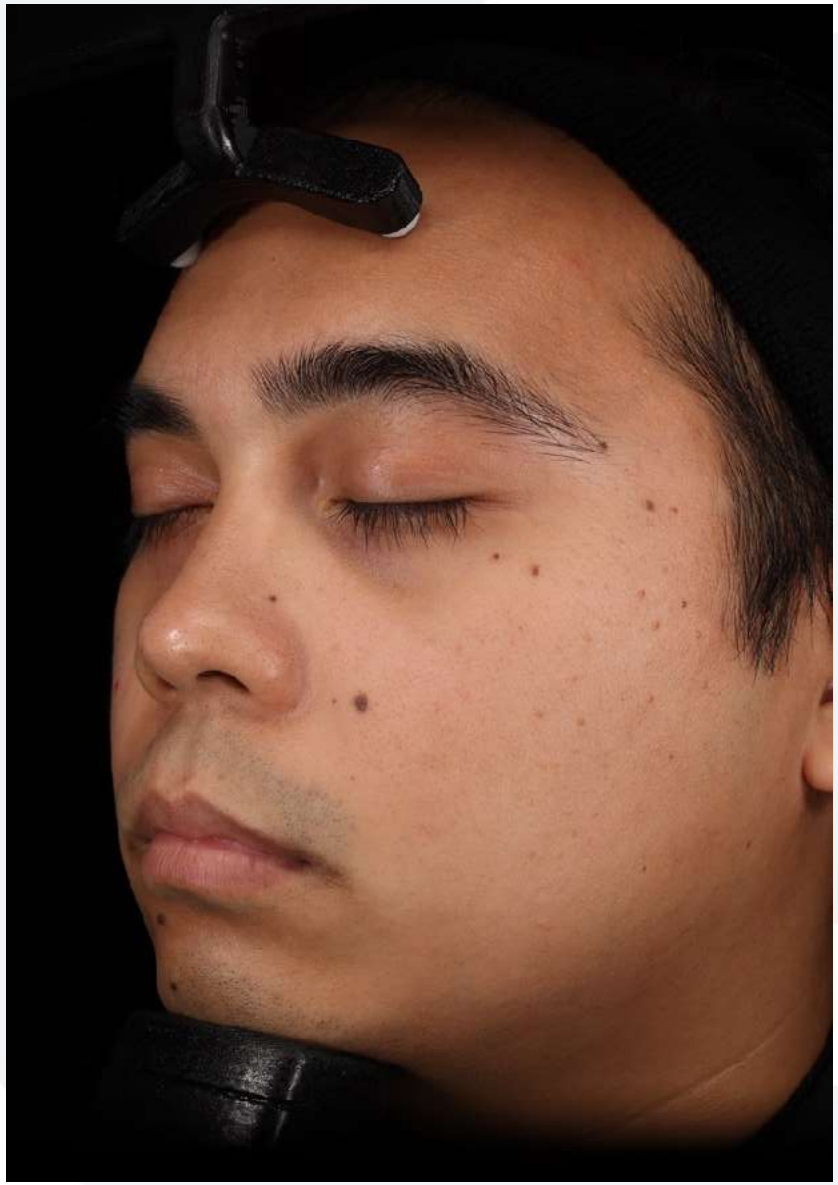
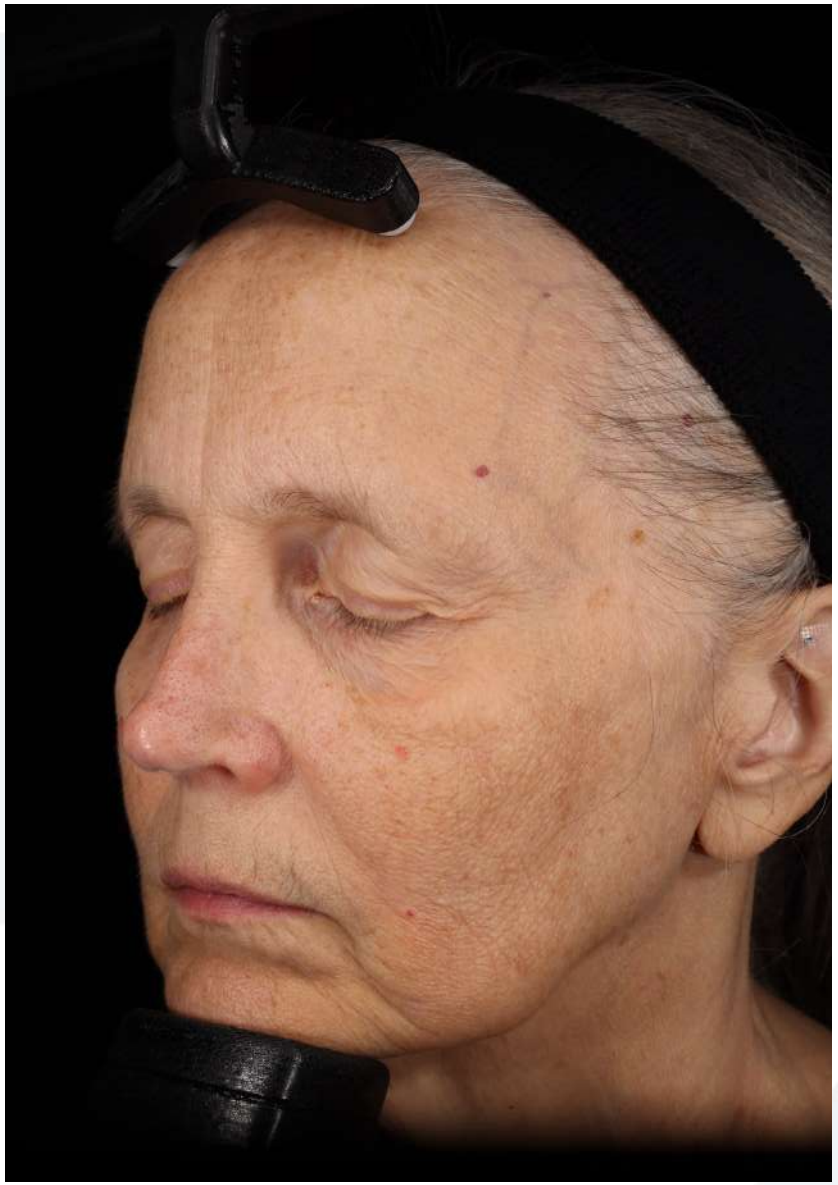
Skin Quality

Lighting Modality: Standard 1
Qualitative Review





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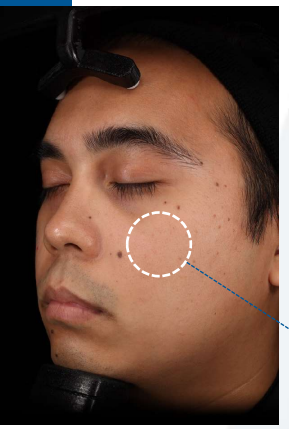
VISIA CRP
Skin Quality

Lighting Modality: Standard 1
Qualitative Review



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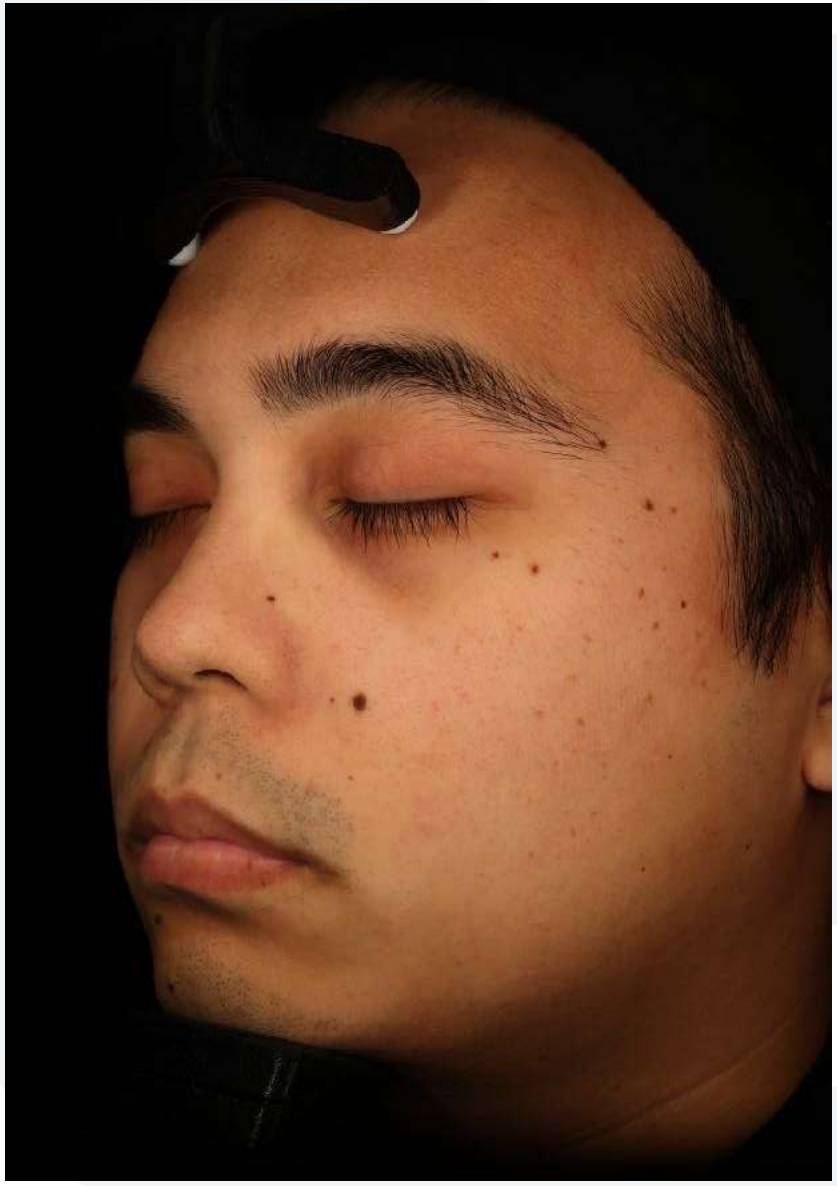
VISIA CRP
Skin Quality

Lighting Modality: Cross Polarized
Qualitative Review



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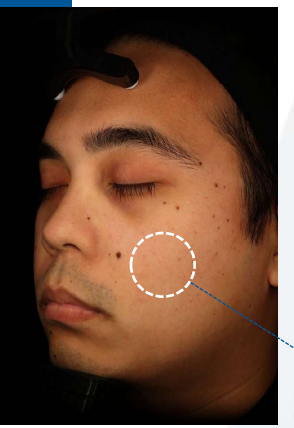
Skin Quality – Color Evenness

Lighting Modality: Cross Polarized
Qualitative Review



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Skin Quality *

COLOR EVENNESS PERFORMED BY CANFIELD IMAGE ANALYSIS TEAM

Lighting Modality: Cross Polarized
Qualitative Review

Color Evenness: Measurement on overall variation in color values across the defined area, and how rapidly those colors change spatially within the defined area. An image with few distinguishable colors (determined from a* and b* color channels from L*a*b* color space), with very gradual changes in color will achieve a high color evenness score. Score is on a scale of 0.0 to 1.0.
*Color evenness

Score: 0.725

Score: 0.573

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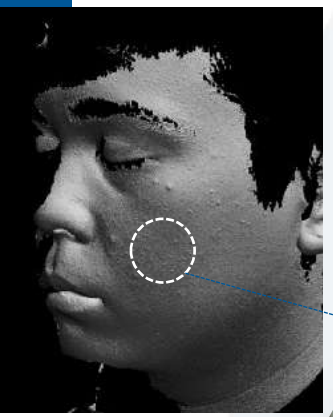
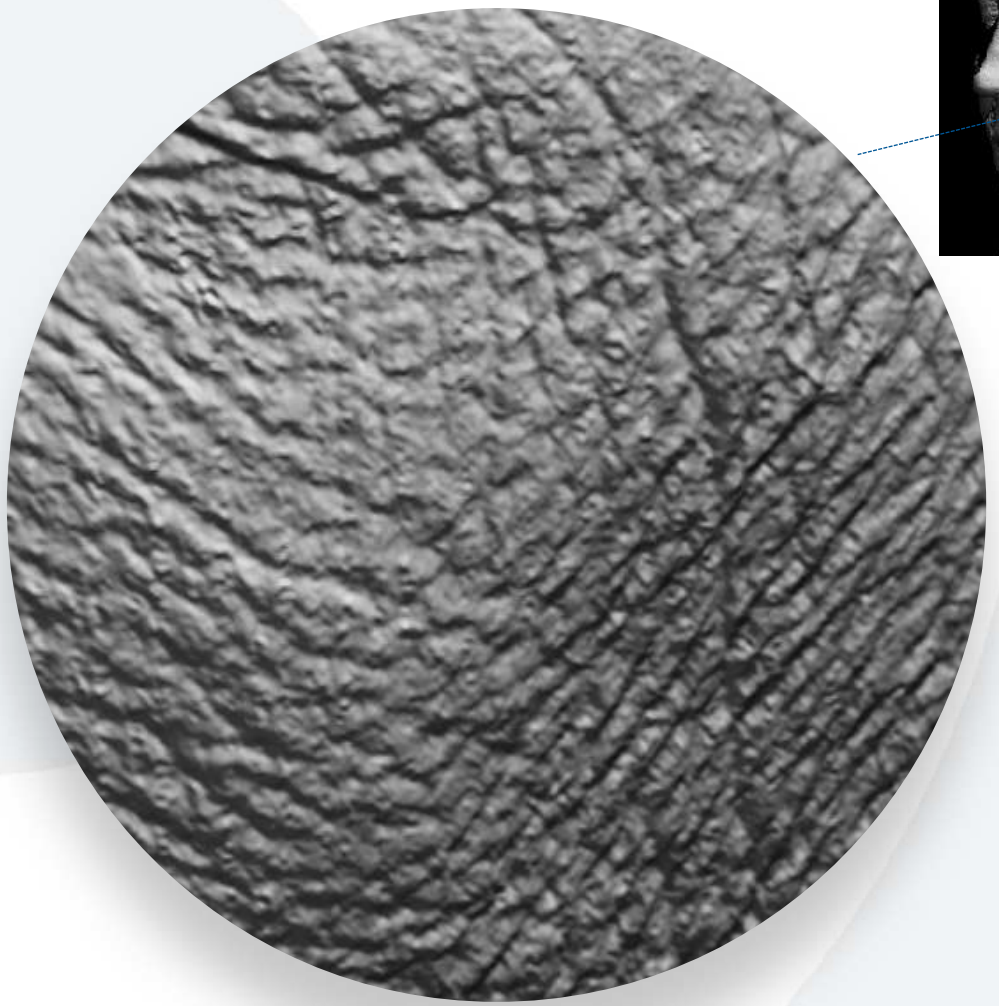
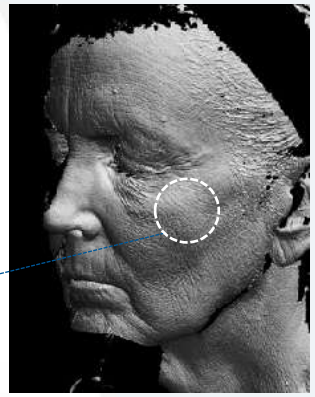
Skin Quality – Roughness

Lighting Modality: PRIMOS 3D Geometry
Qualitative Review







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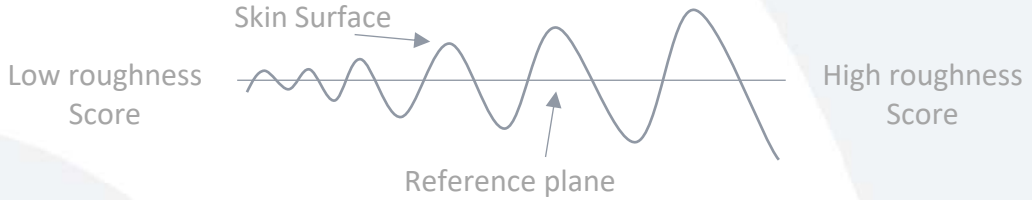
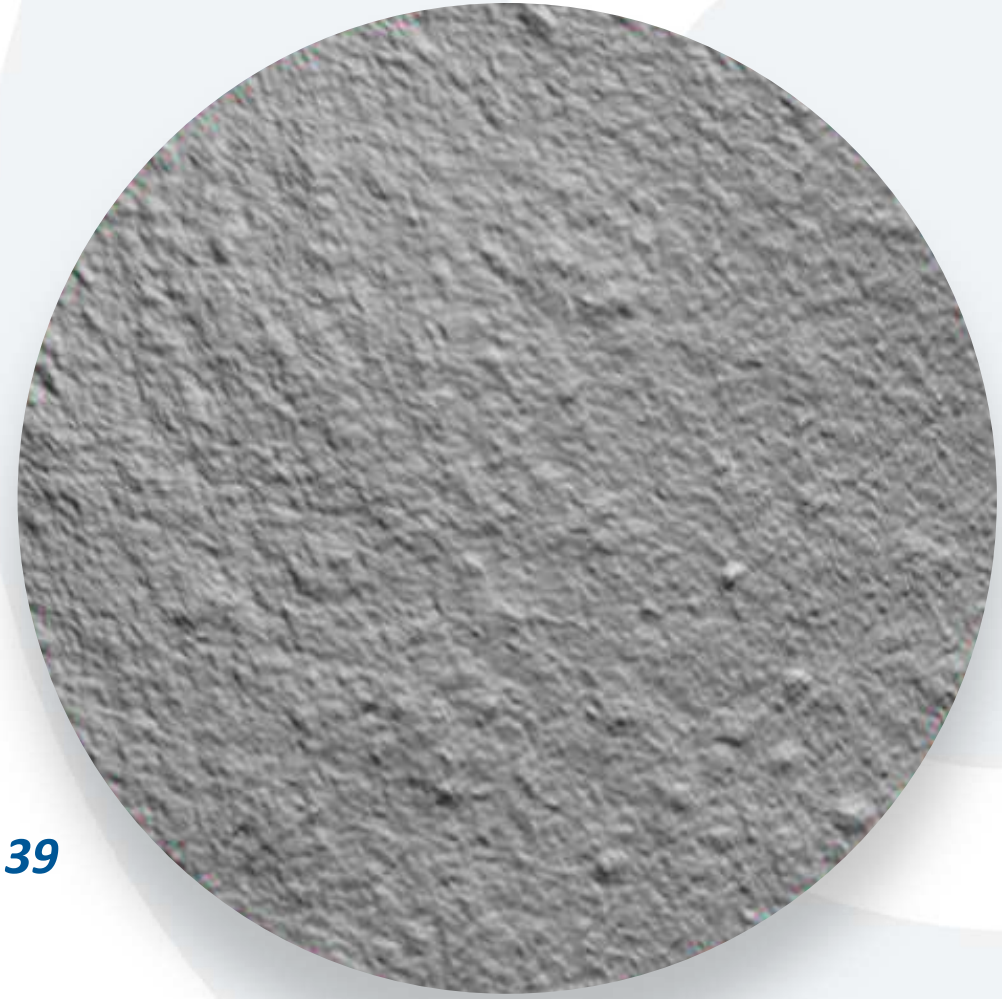
Skin Quality – Roughness

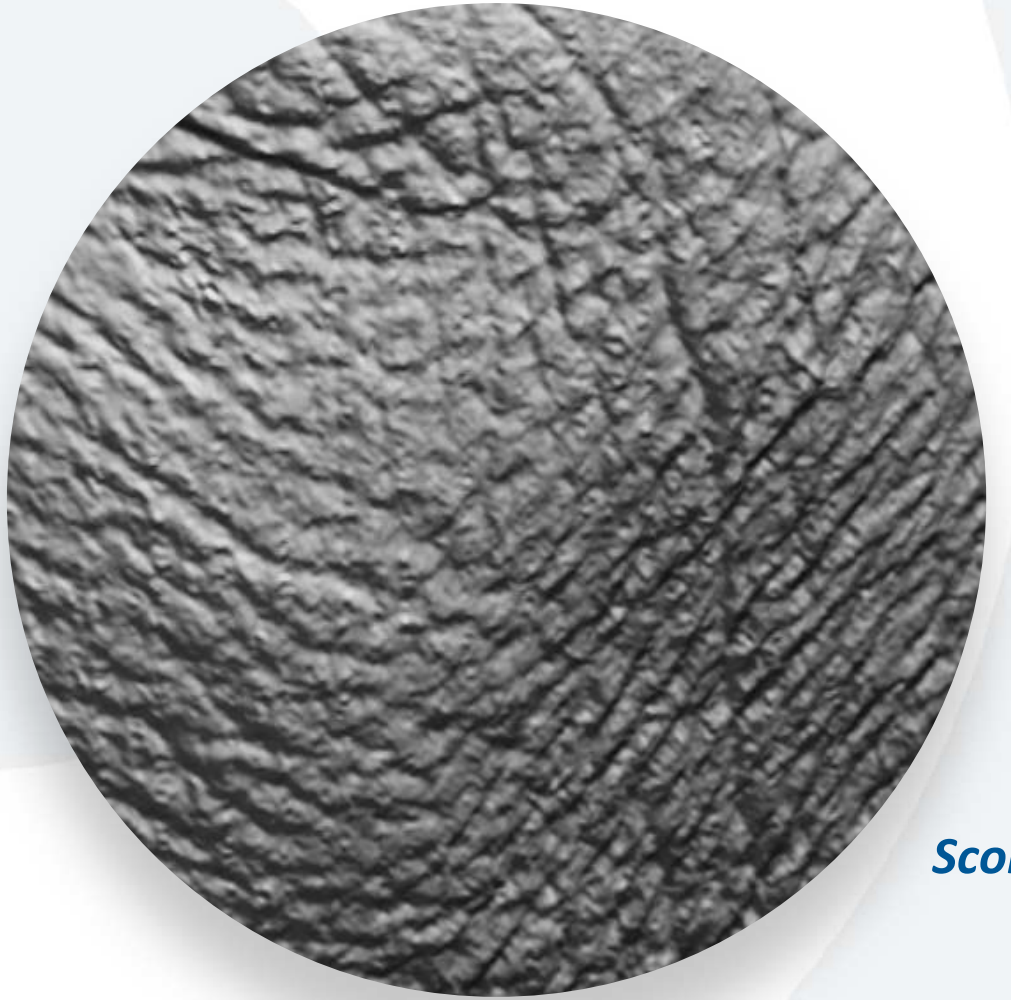
Roughness Measurement: The average absolute difference of all points along the skin surface within the given area of interest against the reference plane.

Lighting Modality: PRIMOS 3D Geometry





Score: 29.39



Score: 137.30

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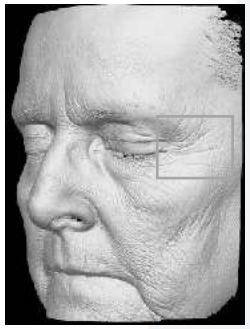
Wrinkle Analysis

Lighting Modality: PRIMOS

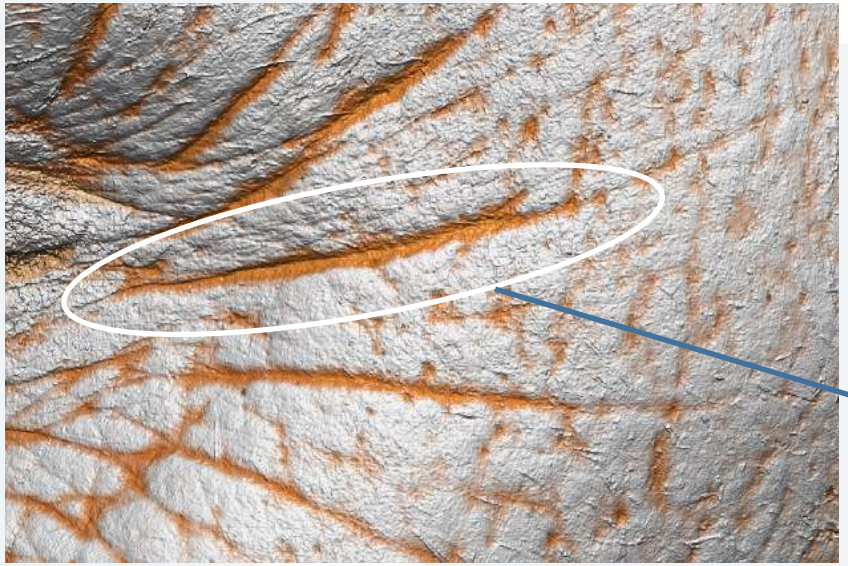


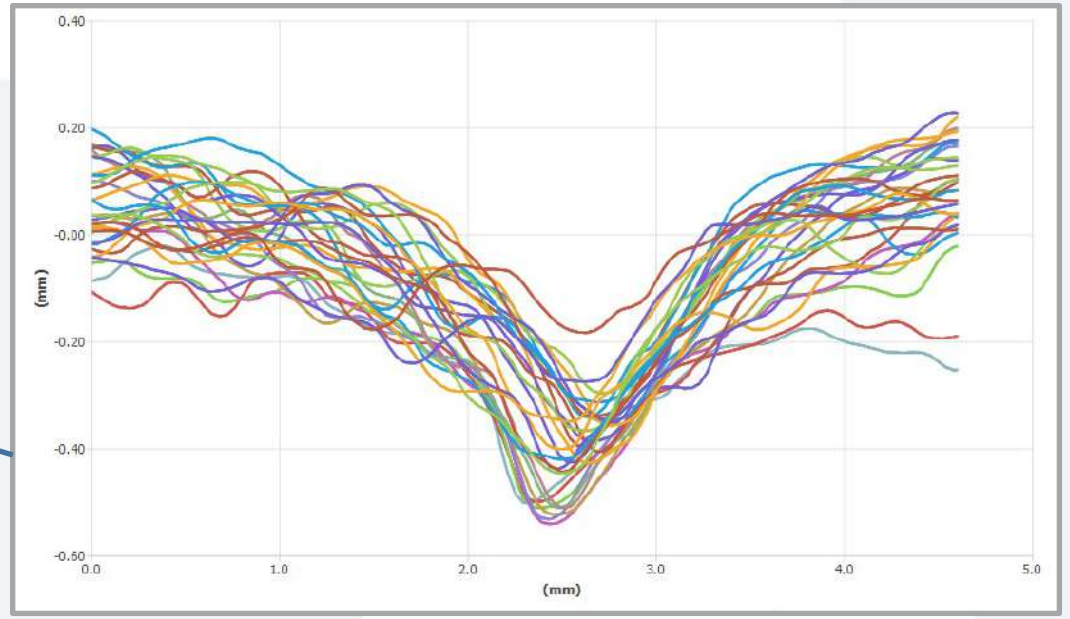
Roughness: -22.5%

Wrinkle Volume: -29.1%

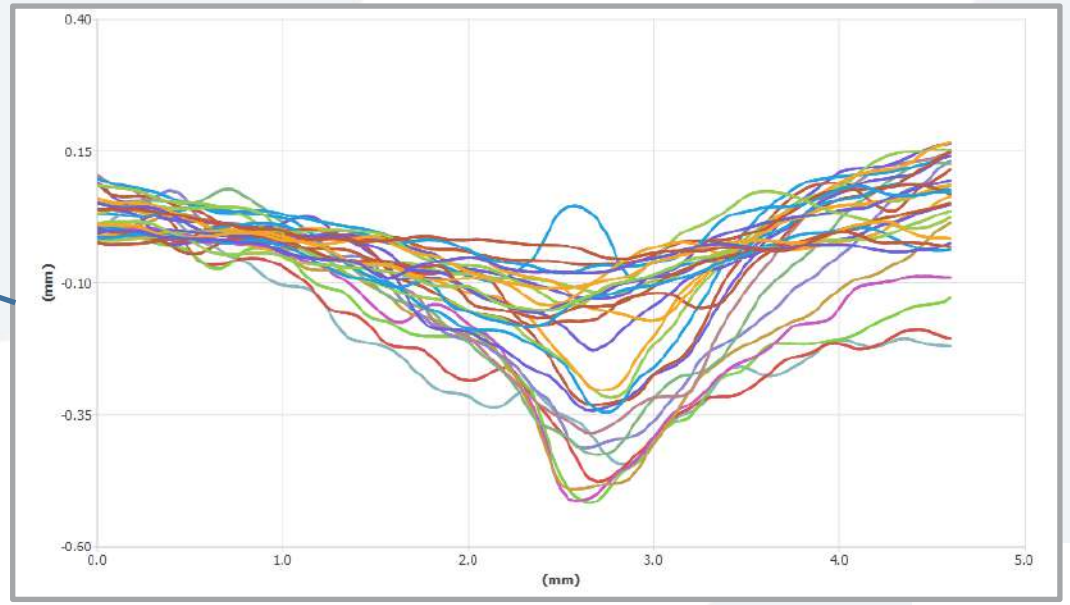
Average Wrinkle Depth: -19.7%

Pre Treatment



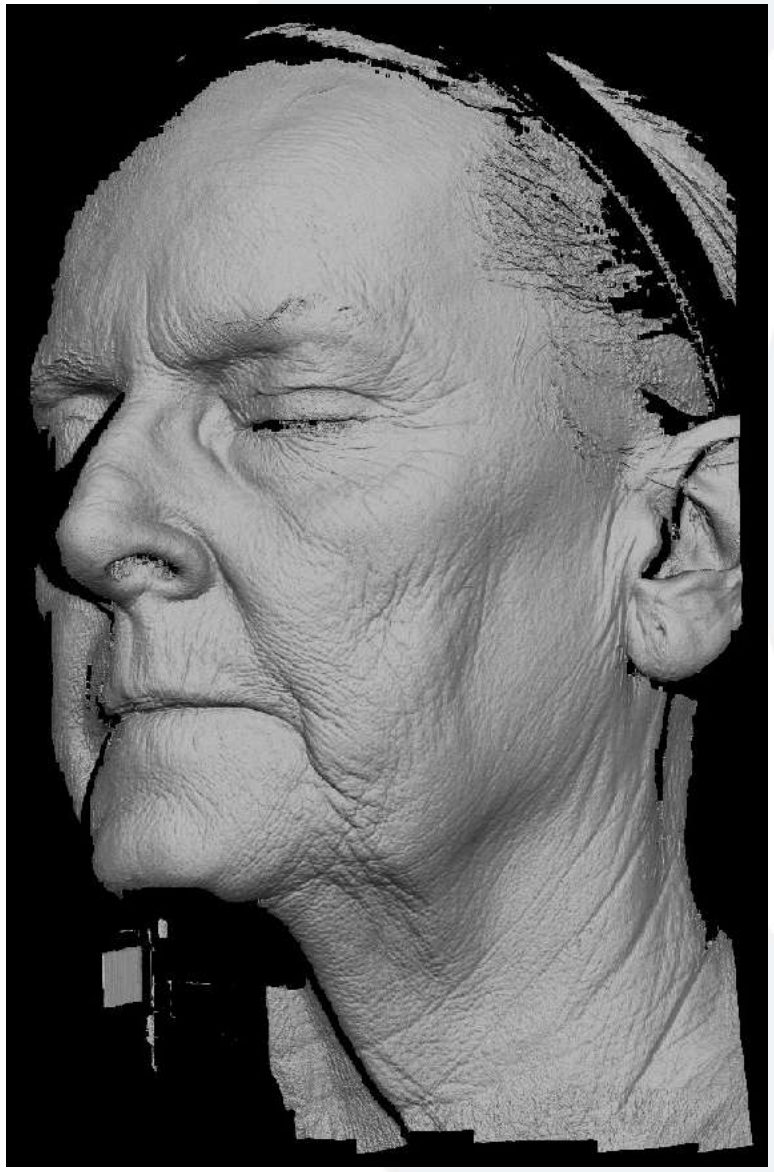


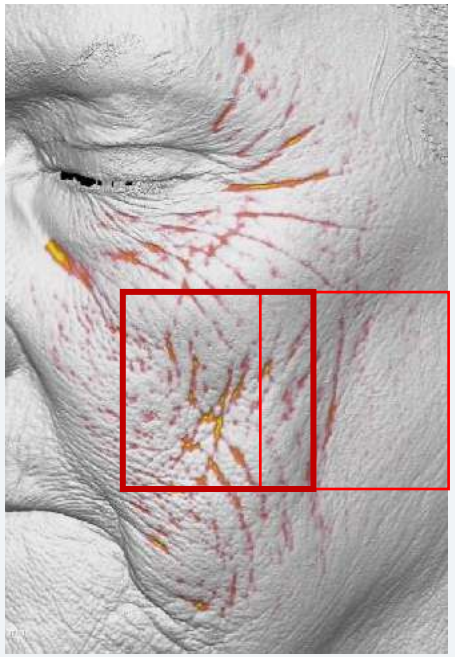
Post Treatment

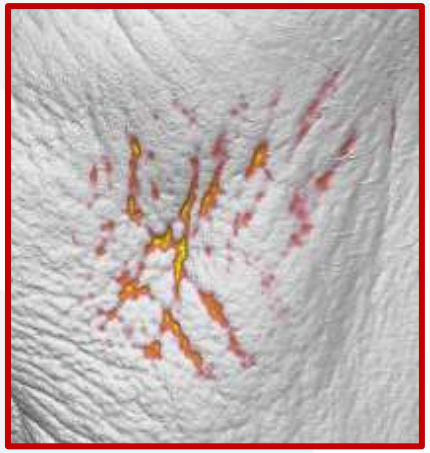


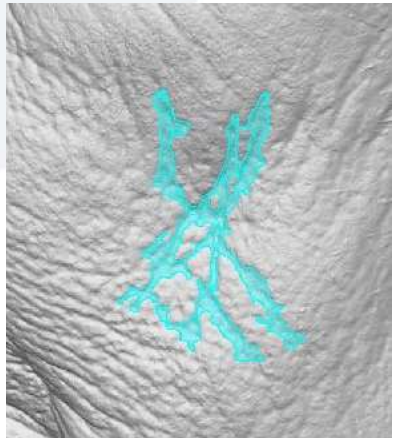
VISIA^{CRP} *Height Mapping and Volume*

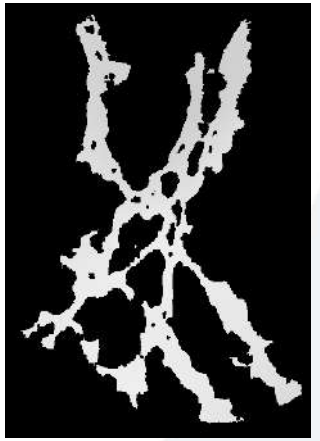
Lighting Modality: PRIMOS











Measurement

Volume :

0.164mm^3

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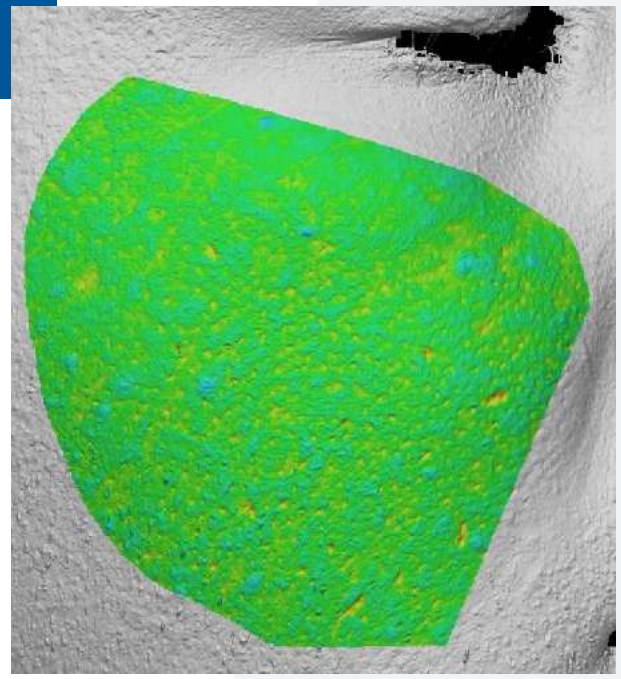
VISIA^{CRP} *Height Mapping and Volume*

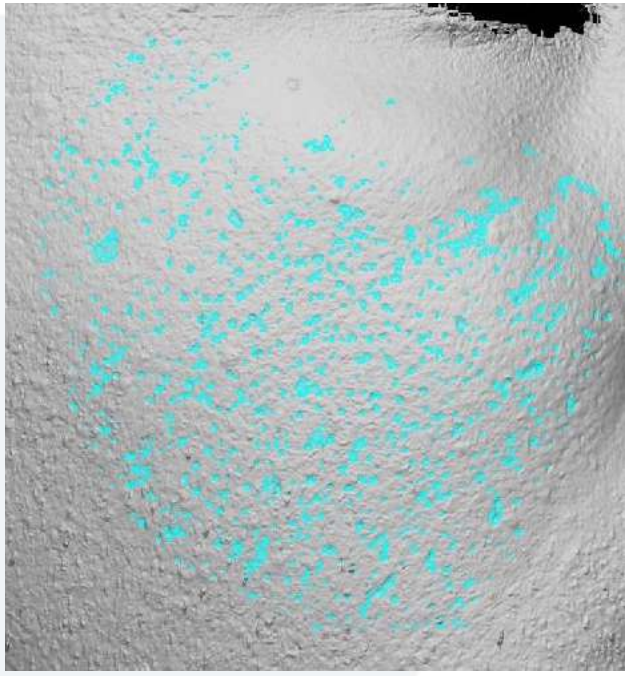
Lighting Modality: PRIMOS



Rough AOI isolation of the target area.

This initial isolation is to get a good visual of AOI and features.

The target area is then isolated to only show the depressions of the surface.



Using the previous color isolation, the active areas can be turned into a selection of the surface to only capture the depressed zones – Scars, pores, wrinkles, or other depressed feature.

The unwanted portion(s) of the selection is then removed to leave only the desired feature(s). In this example, a single lesion is shown, as many can be left and calculated together.

Measurements	
Volume :	0.613mm^3
Area :	0.036 cm^2
Depth :	0.408 mm

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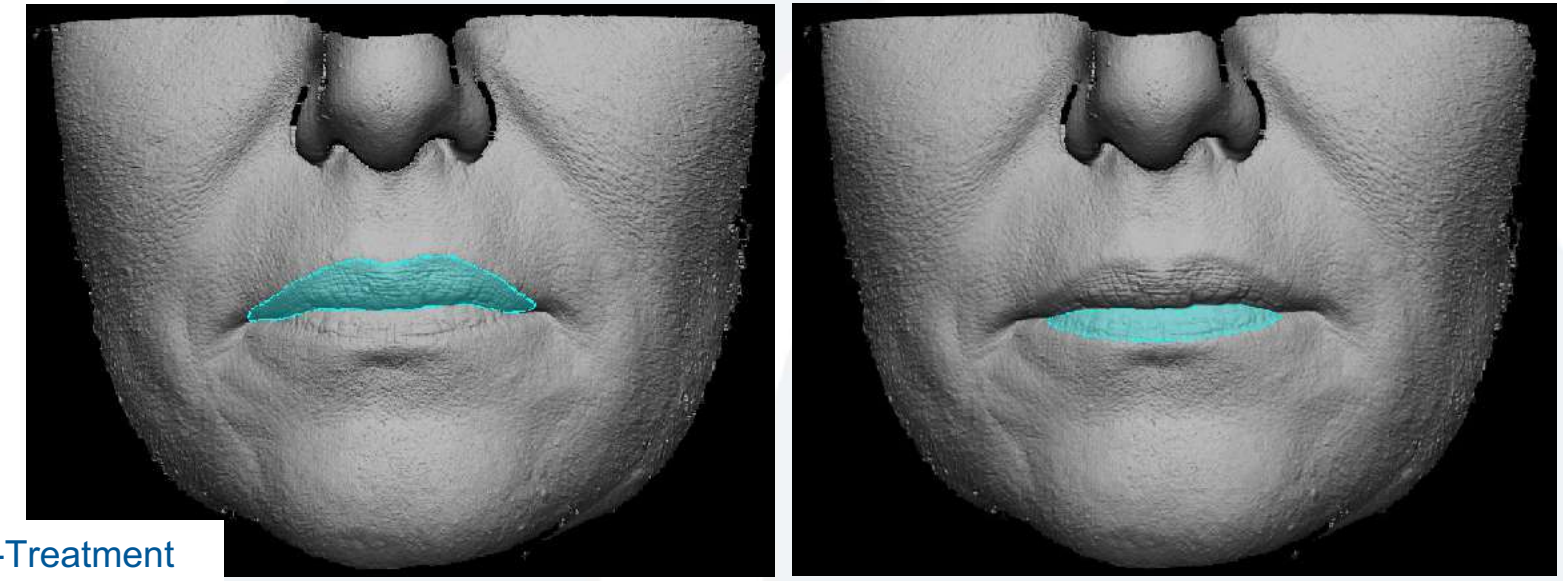
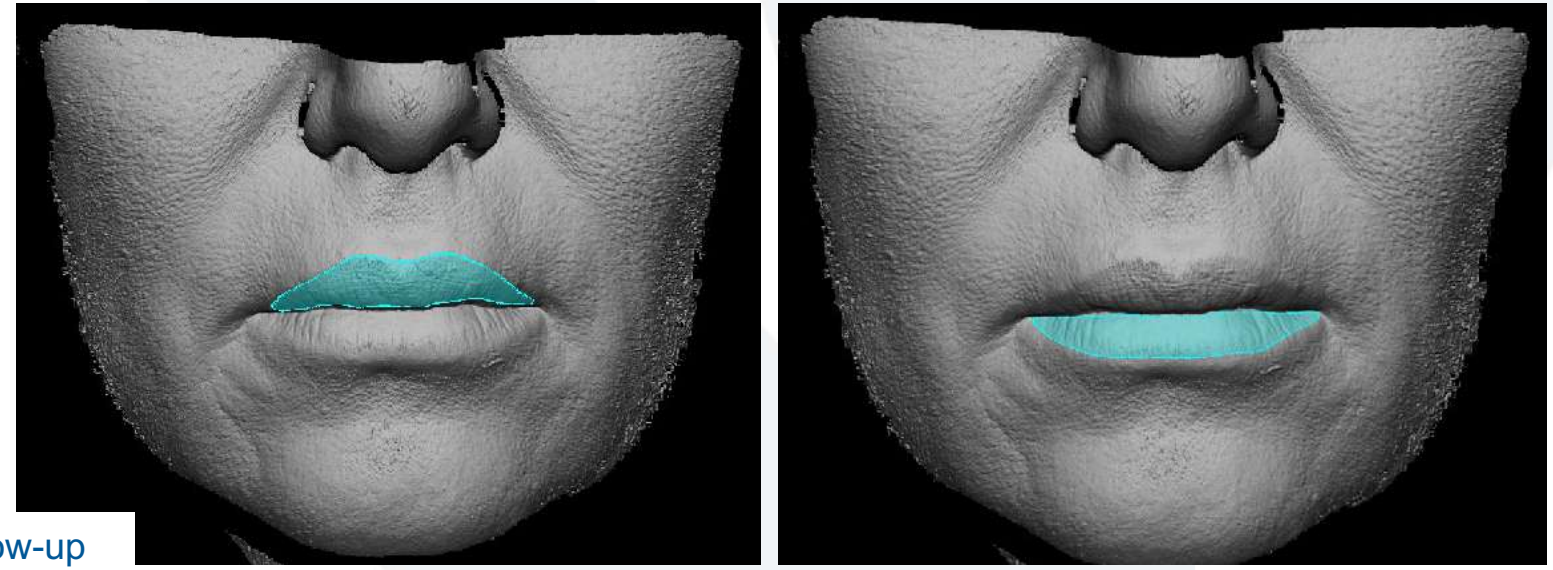
VISIA^CRP *Lip Volume*

Lighting Modality: PRIMOS



Pre-Treatment

Top Lip		Bottom Lip	
Sa	2.02	Sa	1.53
Smax	11.46	Smax	7.34
Sz	2.17	Sz	1.38
Area	3.70	Area	2.15

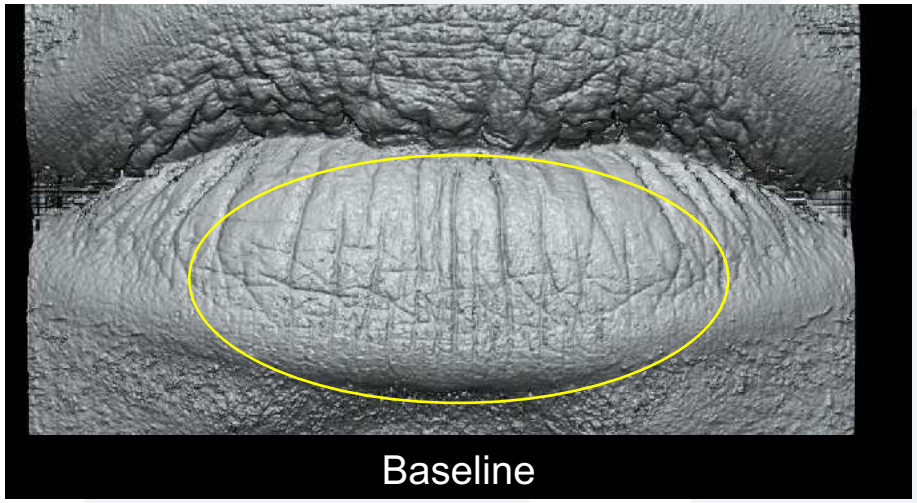


Follow-up

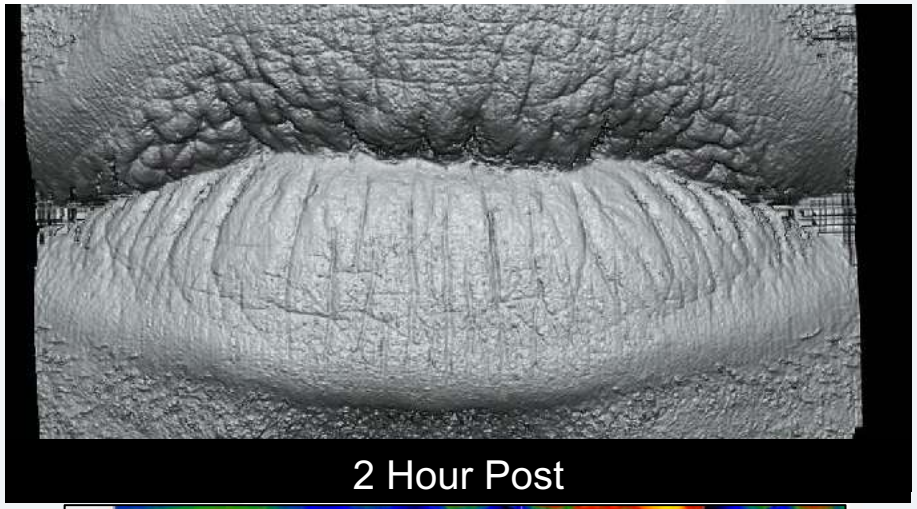
Top Lip		% Change	Bottom Lip		% Change
Sa	0.79	-60.9	Sa	0.69	-54.9
Smax	4.72	-58.8	Smax	4.32	-41.1
Sz	0.58	-73.3	Sz	0.70	-49.3
Area	4.54	22.7	Area	3.29	53.0

VISIA^CRP *Lip Volume*

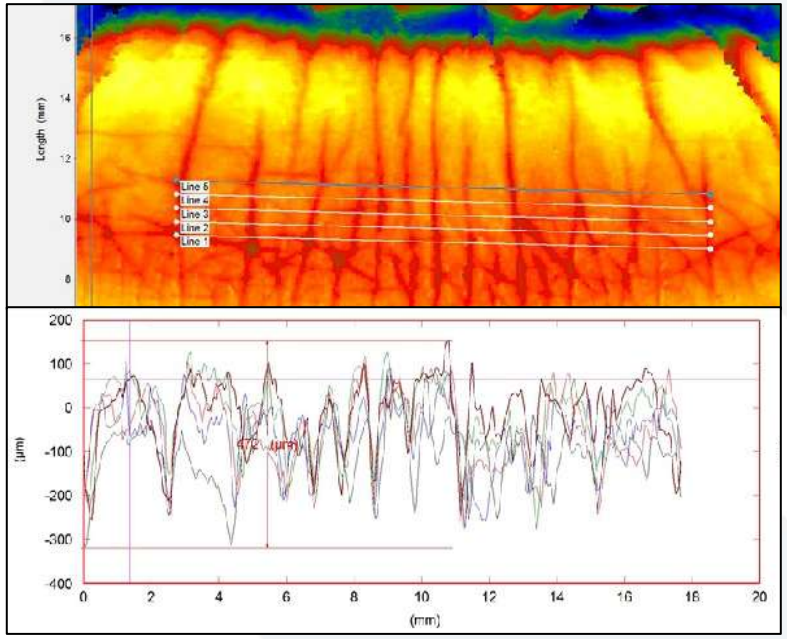
Lighting Modality: PRIMOS



Baseline

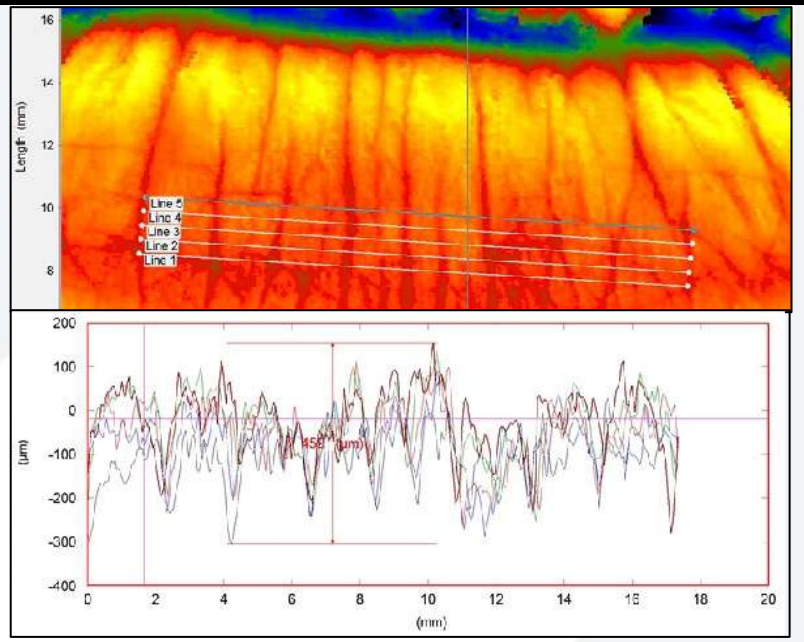


2 Hour Post



Mean Profile Roughness

	BaseLine	Follow-Up	% Change
(RA)	50.8	43.6	-14.2%
(RQ)	64.6	55.4	-14.2%
(Rmax)	344.2	290.4	-15.6%



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