**Supplement** | Suplemento

# **Supplemental Materials**

M. Massufero Vergilio, M. Moretti Aiell, T. Anselmo, G. Ricci Leonardi. (2022)

Pretest questionnaire for anti-ageing cosmetic claims substantiation:
a description of validation of efficacy and sensory perception questionnaires

Biomedical and Biopharmaceutical Research 19(2), 397-409. doi: 10.19277/bbr.19.2.298

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# Appendix A - Initial questionnaire: Self-evaluation of skin appearance

27/01/2020

Questionário Perfil dos Participantes

# **Self-evaluation of skin appearance questionnaire**\*Mandatory

	•			
Mobile	e: *			
E-mai	l:			
Medic	al and general records: *	Υ	'es	No
Pre	gnancy or breastfeeding			
	matitis	$\geq$	=	$\geq$
		Α.		
Pso	riasis	$\geq$	$\preceq$	$\geq$
Pso Vitil	riasis	7	3	
	riasis igo		3	
Vitil	riasis igo		333	
Vitil Acn Oth	riasis igo ie			
Vitil Acn Oth	riasis igo e er skin diseases			
Vitil Acn Oth Alle	riasis igo le er skin diseases ergy to any cosmetic product			
Vitil Acn Oth Alle Dial Hea	riasis igo ne er skin diseases ergy to any cosmetic product betes or hormonal disease art or vascular disease oplasms			
Vitil Acn Oth Alle Dial Hea Nec	riasis igo ne er skin diseases ergy to any cosmetic product betes or hormonal disease art or vascular disease oplasms bhorectomy (Surgical removal of			
Vitil Acn Oth Alle Dial Hea Nec	riasis igo ne er skin diseases ergy to any cosmetic product betes or hormonal disease art or vascular disease oplasms			
Vitill Acn Oth Alle Dial Hea Nec Oop one Hys the Met	riasis igo le er skin diseases ergy to any cosmetic product betes or hormonal disease art or vascular disease oplasms shorectomy (Surgical removal of e or both ovaries) terectomy (surgical removal of			
Vitill Acn Oth Alle Dial Hea Nec Oop one Hys the Met crar Hist	riasis igo le er skin diseases ergy to any cosmetic product betes or hormonal disease art or vascular disease oplasms ohorectomy (Surgical removal of e or both ovaries) eterectomy (surgical removal of uterus) ial pins or plates in the			

01/2020	Questionário Perfil dos Participantes
	7. Do you currently use medication (prescribed or not)?*
	Yes
	○ No
	8. If yes, list name, dosage and frequency of medicine(s):
	9. Have you ever performed any facial aesthetic procedure or used any cosmetic product with a rejuvenating function? *
	Aesthetic procedure: laser, radiofrequency, ultrasound, etc.
	Yes
	No
	10. If yes, which one?*
	11. Consumption of alcoholic beverages: *
	Yes
	No
	Sometimes
	12. Smoking:*
	Yes
	No
	Former smoker
	13. What is your color or race/ethnicity? *
	14. In situations where you are exposed to intense sunlight, your skin: *
	Always burns (shows redness)
	Burns moderately
	Burns little
	Burns rarely
	Never burns (never reddens)

1/2020		Questionário Perfil dos Participantes
	15.	Still regarding situations of intense sun exposure, your skin: *
		Never tans
		It tans very little
		Tans moderately
		Always tans
	16.	Regarding HYDRATION, is your facial skin: *
		1 2 3 4 5 6 7
		Not hydrated Very hidrated
	17.	Regarding FIRMNESS, is your facial skin: *
		1 2 3 4 5 6 7
		Not firm Very firm
	18.	Regarding ELASTICITY, your facial skin is: *
		1 2 3 4 5 6 7
		No elasticity A lot of elasticity
	19.	Regarding FLACIDITY, is your facial skin: *
		1 2 3 4 5 6 7
		Not saggy Very saggy
	20.	Regarding LUSHNESS/LUMINOSITY, does your facial skin present: *
		1 2 3 4 5 6 7
		Does not show lush/luminosity Vey lush/luminosity
	21.	Regarding WRINKLES/EXPRESSION LINES IN THE EYE REGION, does your skin present: *
		1 2 3 4 5 6 7
		No wrinkles/lines Lots of wrinkles/fine lines

27/	<b>1</b>	120	120

Questionário Perfil dos Participantes

			1	2	3	4	5	6	7	
No wrinkles/lir	nes	(								Lots of wrinkles
. Regarding W		ES/EXPI	RESSI	ON LINI	ES IN TH	HE FORI	EHEAD	REGION	l, does y	our/
			1	2	3	4	5	6	7	
No wrinkles/linexpression	nes	(								Lots of wrinkles
. Regarding F	ACIAL	SKIN T	ONE (	JNIFOR	RMITY, i	s your s	skin:*			
					·	•				
		1	2	3	4	5	6	7		
Not uniform								)	) Ver	y uniform
				_				_	_	
No spots		1	2	3	3 4	5	5 6		7 Lo	ots of spots
	ots: *	hich reç	gion of	the fac		5	5 6			ots of spots
If yes, descri you have spo For example, nose, etc.	ots: * , around	hich reg	gion of	f the fac	ee e		5 6	7		ots of spots
If yes, descri you have spo For example, nose, etc.	ots: * , around	the eye	gion of	f the fac	ne Dur skin		7			ots of spots
. If yes, descri you have spo For example, nose, etc.	ots: * , around	the eye	gion of	the face	ne Dur skin	:*				
. If yes, descri you have spi For example, nose, etc.	ots: * , around	the eye	gion of es, fore	f the facehead,	ne Dur skin	:*			Lo	· · · · · · · · · · · · · · · · · · ·

### Appendix B - Initial questionnaire: Sensory evaluation of cosmetics

Sensory evaluation of cosmetics questionnaire
Name:
Sua resposta
Cosmetic product used:
O PL1
○ JC6
O RC4
O MM2
How did you feel about the CONSISTENCY / TEXTURE of the cosmetic product when you applied it to your skin?  1 2 3 4 5 6 7 8 9  I disliked it very much
What did you think of the CONSISTENCY / TEXTURE of the cosmetic product when applying it to the skin?
Extremely viscous (consistent)
Very viscous(consistent)
Viscous (consistent)
Adequate
Fluid (thin)
O Very fluid (thin)
C Extremely fluid (thin)



What did you think of the CONSISTENCY / TEXTURE of the cosmetic product when applying it to the skin?
Extremely viscous (consistent)
O Very viscous(consistent)
O Viscous (consistent)
O Adequate
O Fluid (thin)
Very fluid (thin)
C Extremely fluid (thin)
How did you feel about the PERFUME/FRAGRANCE of the cosmetic product?
1 2 3 4 5 6 7 8 9
I disliked it very much OOOOOOIreally enjoyed it
What do you think of the PERFUME/FRAGRANCE of the cosmetic product?
C Extremely strong
O Very strong
Strong
Neither weak nor weak Weak
O Very weak
C Extremely weak
How did you feel about the ABSORPTION TIME of the cosmetic product during application on the skin:  Understand "absorption time" as the drying speed of the cosmetic after application on the skin.
1 2 3 4 5 6 7 8 9
I disliked it very much OOOOOOIreally enjoyed it



About the ABSORPTION TIME of the cosmetic product during application to the skin:  Understand "absorption time" as the drying speed of the cosmetic after application on the skin.
Absorbed extremely slow
absorbed very slowly
absorbed slowly
O Didn't absorb fast or slow
absorbed quickly
It absorbed very quickly
Absorbed extremely fast
How did you feel about the SPREADABILITY of the cosmetic product when applying it to the skin:
1 2 3 4 5 6 7 8 9
I disliked it very much OOOOOOI really enjoyed it
Regarding the SPREADABILITY of the cosmetic product during its application to the skin:
Extremely difficult to spread
very difficult to spread
hard to spread
Neither easy nor difficult to spread
easy to spread
very easy to spread
Extremely easy to spread
How did you feel about the STICKNESS of the skin, right after applying the cosmetic product:
1 2 3 4 5 6 7 8 9
I disliked it very much



Regarding the STICKNES	S 01 tile								
extremely sticky									
overy sticky									
moderately sticky									
little sticky									
onot sticky									
How did you feel about the product:	ne OILIT	Y of	the s	skin,	right	afte	r app	lying	the cosmetic
	1 2	3	4	5	6	7	8	9	
I disliked it very much	0 0	0	0	0	0	0	0	0	I really enjoyed it
Regarding the OILITY of t	he skin	, righ	t afte	er ap	plyin	g the	cos	metic	product:
		-				-			
extremely oily									
extremely oily									
extremely oily very oily moderately oily									
overy oily									
very oily moderately oily									
very oily moderately oily little oily non oily  How did you feel about the cosmetic product:	1 2	3	4	5	6	7	8	9	olying the



0	maybe / maybe not
0	I probably wouldn't buy
0	would probably buy
0	definitely would not buy
0	would definitely buy
	nis product were for sale, what is your purchase intent for this cosmetic duct?
0	Too bad
0	moderately bad
0	slightly bad
0	neither good nor bad
0	slightly good
0	moderately good
0	Very good
Glob	bally, how do you rate the cosmetic product?

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### Appendix C - Final questionnaire: Self-evaluation of skin appearance

Self-evaluation of skin appearance questionnaire  To participate in the study, we first need to get to know you better and find out how you see your beauty.
*Obrigatório
According to other women your age who are a part of your daily life, would you * say that the GENERAL APPEARANCE of your facial skin is:
(7) Extremely good/excellent
(6) very good
(5) good
(4) Neither good nor bad
(3) bad
O (2) very bad
(1) Extremely bad/terrible
Based on the statement "Performing treatments to maintain youthful skin, without * signs of aging, is very important to me":  (Signs of aging are an increase in the amount of wrinkles and expression lines, sagging, decreased shine, dry skin, etc.)
○ I totally agree
opartially agree
O I do not agree nor disagree
partially disagree
totally disagree
Com base na afirmação "O cuidado e saúde da minha pele é minha prioridade" *
O I totally agree
opartially agree
O I do not agree nor disagree
opartially disagree
ototally disagree



Regarding HYDRATION, your facial skin is: *  (Uma pele desidratada se caracteriza como uma pele esbranquiçada, sem brilho, com descamação e textura áspera)  (7) Extremely hydrated  (6) Very hydrated  (5) hydrated  (4) Neither hydrated nor dehydrated  (3) Dehydrated  (2) Very dehydrated  (1) Extremely dehydrated
In terms of FIRMNESS, is your facial skin: * (Firmness is characterized by firm skin, with tone, consistency, support, opposite of sagging)
(7) Extremely firm
(6) Very firm
(5) firm
(4) Neither firm nor saggy
(3) Flabby
(2) Very saggy
(1) Extremely saggy
Regarding ELASTICITY, your facial skin is: * (Elasticity is characterized by flexibility of the skin, undergoes deformation when subjected to traction, and partially or completely returns to its original shape)
(5) Very good elasticity
(4) Good elasticity
(3) Average elasticity
(2) Little elasticity
(1) Does not have elasticity
Regarding WRINKLES / EXPRESSION LINES IN THE EYE REGION, does your skin * have:
(5) Many wrinkles/expression lines
(4) Medium amount of wrinkles/expression lines
(3) Fewer wrinkles/expression lines
(2) Almost no wrinkles / frown lines
(1) Does not have wrinkles/expression lines



Regarding WRINKLES/EXPRESSION LINES IN THE REGION OF THE LIPS, does * your skin present:
(5) Many wrinkles/expression lines
(4) Medium amount of wrinkles/expression lines
(3) Fewer wrinkles/expression lines
(2) Almost no wrinkles / frown lines
(1) Does not have wrinkles/expression lines
Regarding WRINKLES/EXPRESSION LINES IN THE FOREHEAD REGION, does your * skin have:
(5) Many wrinkles/expression lines
(4) Medium amount of wrinkles/expression lines
(3) Fewer wrinkles/expression lines
(2) Almost no wrinkles / frown lines
(1) Does not have wrinkles/expression lines
Regarding FACIAL SKIN TONE UNIFORMITY, is your: *  (A skin with an even tone is characterized by even color, without spots or redness)
(5) Too much uniformity
(4) Average uniformity
(3) Little uniformity
(2) Almost not uniform
(1) It is not uniform
Regarding the QUANTITY OF DARKEN SPOTS, your facial skin presents: *
(5) Lots of spots
(4) Medium amount of spots
(3) Few stpots
(2) Hardly any spots
(1) No spots
If you have spots, describe in which region of your face you have spots: *  (Exemplo: região dos olhos, da testa, nariz, bochecha, etc)  Sua resposta



Regarding SIGNS OF TIREDNESS, in the morning, your facial skin is: * (Signs of tiredness are lack of brightness, vitality, with swelling, dehydrated, etc.)
(6) Intensity too high
(5) High intensity
(4) Average intensity
(3) Little intensity
(2) Almost non-existent
(1) Does not show signs of tiredness
Regarding the BAGS UNDER THE EYES, would you say that in the morning, you * have:
(6) Intensity too high
(5) High intensity
(4) Average intensity
(3) Little intensity
(2) Almost non-existent
(1) No bags under the eyes
Regarding DARK CIRCLES, would you say that you usually have: *
(6) Intensity too high
(5) High intensity
(4) Average intensity
(3) Little intensity
(2) Almost non-existent



Current health conditions: *						
	Yes	No				
Pregnancy or breastfeeding	0	0				
Dermatitis	0	0				
Psoriasis (chronic autoimmune skin disease characterized by reddish patches covered with whitish scales)	0	0				
vitiligo	0	0				
Acne	0	0				
Other skin diseases	0	0				
Allergy to any cosmetic product	0	0				
Diabetes or hormonal disease	0	0				
heart or vascular disease	0	0				
Neoplasms (tumor)	0	0				
Oophorectomy (Surgical removal of one or both ovaries)	0	0				
Hysterectomy (surgical removal of the uterus)	0	0				
Metal pins or plates in the craniofacial region	0	0				
History of aesthetic plastic surgery in the facial region	0	0				
History of use of botulinum toxin, filler or lift wires	0	0				
In addition to those mentioned above, do you have any disease or condition that * you would like to inform us about? Which one?  Sua resposta						
Do you currently use medication (per Example: Contraceptives, etc.  Yes  No	orescription or not)?	*				



If yes, list names and reasons for using the drugs:
Sua resposta
Have you ever performed any facial aesthetic procedure with rejuvenating function?  Example: laser, radiofrequency, ultrasound, etc.  Yes  No
Have you ever used a cosmetic product with a rejuvenating function? *  Example: retinol, vitamin C, anti-aging products by Avon, Natura, Mary key, etc.  Yes  No
If yes, which products? * Example: retinol, vitamin C, anti-aging products by Avon, Natura, Mary key, etc. Sua resposta
Consumption of alcoholic beverages: *  Yes  No  Sometimes
Smoking: *  Yes  No  Former smoker
What is your color or race/ethnicity? * Sua resposta



In situations where you expose yourself intense sunscreen, your skin:	ely to the sun withou	it using	*
Always burns (shows redness)			
Burns moderately (not too little, not too much,	with medium frequen	су)	
oburns little			
rarely burns			
Never burns (never reddens)			
Still on situations of intense sun exposure with	out using sunscreer	ı, your skin: *	
onever tans			
tan rarely			
tans little			
Tans moderately (not too little, not too much, r	nedium frequency)		
always tans			
Name: * Sua resposta			
Age: *			
Sua resposta			
Mobile: *			
Sua resposta			
E-mail:			
Sua resposta			
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### Appendix D - Final questionnaire: Sensory evaluation of cosmetics

Sensory evaluation of cosmetics questionnaire  To answer the questions in the questionnaire, take into account your personal perception,
what you felt when using the cosmetic product, therefore, there is no right or wrong alternative.
Name:
Sua resposta
Cosmetic product used:
O PL1
○ JC6
O RC4
○ MM2
I disliked it very much
What did you think of the CONSISTENCY / TEXTURE of the cosmetic product when applying it to the skin?  Rate the CONSISTENCY/TEXTURE characteristic of the cosmetic product you used from 1 to 7.
7 Extremely viscous (consistent)
6 Very viscous(consistent)
5 Viscous (consistent)
O 4 Adequate
3 Fluid (thin)
2 Very fluid (thin)
1 Extremely fluid (thin)
On a scale of 1 to 9, how would you rate how you felt about the PERFUME / FRAGRANCE of the cosmetic product?  1 2 3 4 5 6 7 8 9
I disliked it very much



What do you think of the PERFUME/FRAGRANCE of the cosmetic product?  Give a score from 1 to 7 to the PERFUME / FRANGRANCE of the cosmetic product you used.
7 Extremely strong
O 6 Very strong
○ 5 Strong
O 4 Adequate
○ 3 Weak
O 2 Very weak
1 Extremely weak
On a scale of 1 to 9, how would you rate how you felt about the DRYING TIME of the cosmetic product?  Understand "DRYING TIME" as the drying speed of the cosmetic after application on the skin.  1 2 3 4 5 6 7 8 9  I disliked it very much
About the DRYING TIME of the cosmetic product during application to the skin: Understand "DRYING TIME" as the drying speed of the cosmetic after application on the skin.
7 Absorbed extremely slow
6 absorbed very slowly
5 absorbed slowly
4 absorbed properly
3 absorbed quickly
2 It absorbed very quickly
1 Absorbed extremely fast
On a scale of 1 to 9, how would you rate how you felt about the SPREADABILITY of the cosmetic product when applying it to the skin?
1 2 3 4 5 6 7 8 9
I disliked it very much OOOOOOIreally enjoyed it





On a scale of 1 to 9, ho cosmetic product?	ow wo	ould y	you r	ate y	our s	kin's	SOF	TNE	SS af	ter applying the
	1	2	3	4	5	6	7	8	9	
I disliked it very much	0	0	0	0	0	0	0	0	0	I really enjoyed it
About the SOFTNESS (			ı, rigl	nt aft	er ap	plyir	ıg the	e cos	meti	c product:
5 extremely soft										
4 very soft										
3 soft										
2 little soft										
1 It's not soft										
Globally, how do you ra						t?				
7 Very good										
6 moderately good										
5 slightly good										
4 adequate										
3 slightly bad										
2 moderately bad										
1 Too bad										
If this product were for product?	sale	, wha	at is y	our/	purcl	nase	inter	nt for	this	cosmetic
would definitely buy	,									
would probably buy										
maybe / maybe not										
I probably wouldn't	buy									
definitely would not	buy									
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