Appendix 1. Semi-structured interview developed at the department of Dermatology in Gentofte, Denmark by authors NW, JT and AE. The purpose of the interviews is to uncover rosacea features, previous treatments for rosacea, and comorbidities in the patient and in 1st and 2nd degree relatives. The interview also includes sleeping habits, smoking, alcohol, BMI, dermatology life quality index (DLQI) and rosacea clinical scorecard.

 Rosace 	ea
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Rosa	acea
1.1	Has a doctor ever told you that you have rosacea? (one answer)
	 No – and I do not have rosacea Yes, I am certain I have rosacea, but a doctor has never told me. Yes – a doctor who is not a dermatologist (e.g. GP) Yes – a dermatologist
	If yes to one of the above, go to question. 1.2. If no, move on to question 3
1.2	Which symptom(s) of rosacea did you first notice? (multiple answers)
	 Redness of particularly cheeks and/or the chest, which did not want to go away Flushing attacks (sudden warmth/burning sensations and redness which lasts a few minutes – half an hour) Persistent (> 1 hour) attacks of flushing Telangiectasias in the face (cheeks, nose, chin or eyelids) Symptoms from the eyes Recurrent formation of pimples in the face Change of the nose's look or size Other?
1.2	.1 At what age did you experience the first symptom(s) of rosacea? Age years
1.2	.2 How much time passed from your first symptom(s) of rosacea until a doctor diagnosed you with rosacea? Year Months
1.3	Has any of the following symptoms appeared started appearing since you noticed the first symptom(s) of rosacea? (multiple answers)
	 Redness of particularly cheeks and/or the chest, which did not want to go away Flushing attacks (sudden warmth/burning sensations and redness which lasts a few minutes – half an hour) Persistent (> 1 hour) attacks of flushing Telangiectasias in the face (cheeks, nose, chin or eyelids) Symptoms from the eyes Recurrent formation of pimples in the face Change of the nose's look or size Other?
1.4	Do you still have symptoms of Rosacea? (one answer)
	■ No ■ Improvement ■ Worsening ■ Unchanged symptoms Describe:

21 1100110211 1112111121112	2. ROSACEA TREATMENT	S
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2.1	Have you ever been treatment for rosacea? (one aswer)				
	■ No, never (move on to question 3)				
	Yes, but I am no longer in treatment				
	Yes, I still receive treatment				
2.2	How long did/have you receive(d) treatment for rosacea? (cumulated time)				
	Less than 3 months 3 months – 1 year More than 1 year – how lo	ong (years)_			
2.3	If no longer in treatment for rosacea – why did you stop treatment? (one answer)				
	My symptoms improved / disappeared after treatment				
	There was no effect of the treatment on my symptoms				
	My symptoms worsened due to treatment				
	■ I got side effects from the treatment				
	■ I do not wish to be on daily medication				
2.4	Which type of treatment(s) have you received? (multiple answers)				
	Creme/gel/ointment Pills Laser treatment				
2.5	Which drug(s) have you tried, and did it/they have any effect? (multiple answers)	Yes	No	Do not know	
	■ Mirvaso (brimonidine tartrate) creme/gel	_	_	-	
	→ Finacea (azelaic acid) creme/gel	_	_	_	
	■ Metronidazole / metrocrem / rozex / robaz creme/gel	_	_	_	
	 Oracea (doxycycline) tablet 	_	_	_	
	Soolantra (ivermectin) creme	_	_	-	
	Tetracycline	_	_	_	
	■ Erythromycin (macrolide) tablet	_	_		
	Accutin / Isotretinoin tabletOther:	_	_	=	
2.6	Which symptom(s) did the treatment influence? (multiple answers)				
	Papules and pustules (impurities/pimples)				
	■ Unwanted redness of the face				
	Telangiectasias in the face				
	Eye symptoms				
	Nose Changes				
	_ Other:				
ner co	nments to treatment:				
					_

3. FLUSHING + OTHER SYMPTOMS

	REDNESS/ SENSITIVE SKIN	
3.1	Are any areas of your face often pink or red?	■ No ■ Yes
3.2	Is your face often pink or red compared with other people?	■ No ■ Yes
3.3	Is your face often pink or red compared to other body areas (e.g. abdomen, upper arms)	■ No ■ Yes
3.4	Have others previously mentioned that your face was pink or red?	■ No ■ Yes
3.5	Do you experience that coldness, heat or direct sunlight can provoke a facial burning/stinging sensation after of	only short exposure?
	No Rarely In periods (e.g. winter) Monthly Weekly Daily	
3.6	Do you experience dry/scaly skin in central areas of your face, e.g. where you usually experience redness?	
	No Rarely In periods (e.g. winter) Monthly Weekly Daily	
3.7	Is you skin sensitive, i.e. blushes easily and/or gets tight/dry easily?	
	No Rarely In periods (e.g. winter) Monthly Weekly Daily	
	TELANGIECTASIAS	
3.8	Do you have telangiectasias in the face (e.g. around the nose or center of the cheeks)?	
	3.8.1 If yes, where are the telangicctasias located?	
	on top of the nose sides of the nose cheeks chin eyelids other:	
	FLUSHING	
3.9	Have you experienced flushing in the <i>past year</i> ?	
	No, not at all Yes, a few times (less than 12 times) Yes, periodically Monthly Week	ly _ Daily
	3.9.1 In your experience, was the start of flushing related to something?	
	_ no _ menopause (hot flushes) _ high/low metabolism _ medication _ other	
	3.9.2 If yes to flushing, in which areas of the skin do you experience flushing?	
	_ forehead _ center of the cheeks _ nose _ ears _ chin _ neck	_ chest
	3.9.3 How long does a (severe) flushing last? (describe any other symptoms)	
		-
3.10	As a <i>child or teenager</i> , did you experience that your face would easily become red (e.g. when you were nerve	ous/shy or exercised)
	 No, never Yes, I have experienced it a couple of times (few times a year or less) 	
	■ It happened occasionally/frequently	
	 I would always blush when I got embarrassed I experienced it daily and sometimes without a trigger 	
	3.10.1 How old were you the first time you experienced flushing? Age years	

3.11 Can any of the following give you a sudden sensation of warmth (flushing) (multiple answers) No Yes Alcohol Hot food or drinks Spicy food Sunlight Hot and humid surrounds e.g. sauna or hot bath etc. Physical activity (e.g. sport) Psychological stress or emotional revolt (e.g. holding a speech in front of a large audience) Other: None of the above
4. ACNE
4.1 Have you experienced frequently having impure skin/pimples in the face after becoming an adult (above 25 years of age) — No (Go to question 5) — No, but I had acne when I was younger — Yes, I have previously experienced pimples, which occurred after I became an adult, but I do not anymore — Yes, and I still frequently experience having pimples 4.2 If yes, do they occur in relation to anything special? — No — Periods — Alcohol — Other 4.3 Where are these impurities/pimples typically located when you have them? (multiple answers) — Forehead — Cheeks — Nose — Chin — Chest — Back — Shoulders — Other 5. EYE SYMPTOMS 5.1 Do you frequently experience
No Yes — red/bloodshot eyes — watery/runny eyes — foreign body sensation of the eyes — stinging sensation in eye/eyes — itching sensation in eye/eyes — itching sensation in eye/eyes — watery/runny eyes — stinging sensation in eye/eyes — itching sensation in eye/eyes — itching sensation of eyelid margins — thickened sensation of eyelid(s), which can be sore or red — feeling the need to close eyes in the evening, in air-conditioned spaces, during flights etc.
5.2 If yes to any of the above, have you ever visited an ophthalmologist due to these symptoms?
5.3 Have you had the need to use viscous/watery eyedrops (artificial tears) for longer/shorter periods of time? No Yes
6. TREATMENT WITH CORTICOSTEROIDS/ADRENOCORTICAL HORMONE
6.1 Have you ever been treated with corticosteroids (also called adrenocortical hormone or prednisolone)? — No, never (move on to question 7) — Yes – creme/ointment — Yes – pills — Yes – syringe 6.2 Have you ever been treated with corticosteroids/adrenocortical hormone? — No, never — Yes, a short period of time (less than 1 month cumulated) — Yes, a longer period (1-12 months cumulated) — Yes, a long period (>12 months cumulated)
6.2.1 If yes, at what age were you when you were first treated with corticosteroids in the face? Age years

7. OTHER DISEASES AND TREATMENT

7.1 Has a doctor ever told you or someone in your family that you/they had any of the following diseases? (Only biologically related family members, i.e. not stepsister or stepparents) SKIN Rosacea \blacksquare no one \blacksquare me \blacksquare parent(s) \blacksquare sibling(s) \blacksquare child(ren) \blacksquare grandparent(s) \blacksquare grandchild(ren) \blacksquare parent(s) brother/sister(s) \blacksquare niece/nephew(s) Acne = no one = me = parent(s) = sibling(s) = child(ren) = grandparent(s) = grandparent(s) = parent(s) brother/sister(s) = niece/nephew(s) Seborrheic dermatitis no one 🕳 me 👝 parent(s) 👝 sibling(s) 🕳 child(ren) 🚍 grandparent(s) 🚍 grandchild(ren) 🚍 parent(s) brother/sister(s) 🚍 niece/nephew(s) Psoriasis 🛥 no one 🕳 me 🚅 parent(s) 🚍 sibling(s) 🚍 child(ren) 🚍 grandparent(s) 🚍 grandchild(ren) 🚍 parent(s) brother/sister(s) 🚍 niece/nephew(s) Atopic dermatitis ■ no one ■ me ■ parent(s) ■ sibling(s) ■ child(ren) ■ grandparent(s) ■ grandchild(ren) ■ parent(s) brother/sister(s) ■ niece/nephew(s) Non-melanoma skin cancer no one me parent(s) isibling(s) child(ren) grandparent(s) grandchild(ren) parent(s) brother/sister(s) niece/nephew(s) Malignant melanoma no one parent(s) parent(s) child(ren) grandparent(s) grandchild(ren) parent(s) brother/sister(s) niece/nephew(s) Urticaria (hives) no one = me = parent(s) = sibling(s) = child(ren) = grandparent(s) = grandchild(ren) = parent(s) brother/sister(s) = niece/nephew(s) Any other skin disorder no one me parent(s) parent(s) parent(s) parent(s) parent(s) parent(s) parent(s) protection iniconcernephew(s) Please describe: **PSYCHIATRIC** Anxiety = no one = me = parent(s) = sibling(s) = child(ren) = grandparent(s) = grandchild(ren) = parent(s) brother/sister(s) = niece/nephew(s)If 'me', have you ever been treated for anxiety? - No, never - Yes, and I am still in treatment - Yes, but I am no longer in treatment no one me parent(s) sibling(s) child(ren) grandparent(s) grandchild(ren) parent(s) brother/sister(s) niece/nephew(s) If 'me', have you ever been treated for depression? - No, never - Yes, and I am still in treatment - Yes, but I am no longer in treatment Any other phychiatric disorder = no one = me = parent(s) = sibling(s) = child(ren) = grandparent(s) = grandchild(ren) = parent(s) brother/sister(s) = niece/nephew(s)Please describe: STOMACH AND GUT Heartburn/reflux $\verb| = no one = me = parent(s) = sibling(s) = child(ren) = grandparent(s) = grandchild(ren) = parent(s) brother/sister(s) = niece/nephew(s) = niece/nephew(s$ Inflammatory bowel disease (Crohn's disease/Ulcerative colitis) no one 🕳 me 👝 parent(s) 👝 sibling(s) 🕳 child(ren) 🖨 grandparent(s) 🖨 grandchild(ren) 🖨 parent(s) brother/sister(s) 🖨 niece/nephew(s) Gluten intolerance/coeliac disease 🛥 no one 🚍 me 🚍 parent(s) 🚍 sibling(s) 🚍 child(ren) 🚍 grandparent(s) 🚍 grandchild(ren) 🚍 parent(s) brother/sister(s) 🚍 niece/nephew(s) Do you frequently experience discomfort/bloating and changing bowel habits? (Irritated bowel syndrome) ■ No ■ Rarely (few times a year) ■ Monthly ■ Weekly ■ Daily OTHER DISEASES Type 1 diabetes \blacksquare no one \blacksquare me \blacksquare parent(s) \blacksquare sibling(s) \blacksquare child(ren) \blacksquare grandparent(s) \blacksquare grandchild(ren) \blacksquare parent(s) brother/sister(s) \blacksquare niece/nephew(s) Type 2 diabetes no one me parent(s) parent(s) sibling(s) child(ren) grandparent(s) grandchild(ren) parent(s) brother/sister(s) niece/nephew(s) Sjogren's syndrome = no one = me = parent(s) = sibling(s) = child(ren) = grandparent(s) = grandchild(ren) = parent(s) brother/sister(s) = niece/nephew(s)Metabolic disease no one parent(s) parent(s) child(ren) grandparent(s) grandparent(s) parent(s) brother/sister(s) niece/nephew(s) High cholesterol no one 👝 me 👝 parent(s) 👝 sibling(s) 🕳 child(ren) 👝 grandparent(s) 👝 grandchild(ren) 👝 parent(s) brother/sister(s) 👝 niece/nephew(s) Hypertension (high blood pressure) 🛥 no one 🚍 me 🚍 parent(s) 🚍 sibling(s) 🚍 child(ren) 🚍 grandparent(s) 🚍 grandchild(ren) 🚍 parent(s) brother/sister(s) 🚍 niece/nephew(s) If 'me', are you taking any treatment for hypertension? - No - Yes, pills, If yes, describe: Raynaud's phenomenon

AIRWAYS COPD (chronic obstructive pulmonary disease) no one me parent(s) sibling(s) child(ren) grandparent(s) grandchild(ren) parent(s) brother/sister(s) niece/nephew(s) Asthma no one me parent(s) sibling(s) child(ren) grandparent(s) grandchild(ren) parent(s) brother/sister(s) niece/nephew(s) Hay fever no one me parent(s) sibling(s) child(ren) grandparent(s) grandchild(ren) parent(s) brother/sister(s) niece/nephew(s)
NEUROLOGICAL Parkinson's disease no one me parent(s) sibling(s) child(ren) grandparent(s) grandchild(ren) parent(s) brother/sister(s) niece/nephew(s) Alzheimer's disease no one me parent(s) sibling(s) child(ren) grandparent(s) grandchild(ren) parent(s) brother/sister(s) niece/nephew(s)
7.2 Do you often experience having cold nose and/or hands? Sold No. Yes, nose Yes, hands
7.3 Have you been diagnosed with/treated for any other diseases? — No — Yes, please describe:
8. SLEEP
8.1 How often do you find it difficult to fall asleep?
☐ Once a month or less (never) ☐ 2-4 times a month ☐ one to several times a week ☐ daily
8.2 How often do you wake up earlier than what you intended (without being woken by an alarm or other noise)?
☐ Once a month or less (never). ☐ 2-4 times a month ☐ one to several times a week ☐ daily
9. SMOKING
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9.1 Do you smoke? (one answer)
9.1 Do you smoke? (one answer)
9.1 Do you smoke? (one answer) No, I have never smoked No, but I have previously smoked Yes, occasionally (less than 1 cigarette per day). Yes, daily ANSWERS FROM DAILY SMOKERS.
9.1 Do you smoke? (one answer) No, I have never smoked No, but I have previously smoked Yes, occasionally (less than 1 cigarette per day). Yes, daily ANSWERS FROM DAILY SMOKERS 9.2 How many cigarettes do you smoke on average? (daily number of cigarettes)
9.1 Do you smoke? (one answer) No, I have never smoked No, but I have previously smoked Yes, occasionally (less than 1 cigarette per day). Yes, daily ANSWERS FROM DAILY SMOKERS 9.2 How many cigarettes do you smoke on average? (daily number of cigarettes) Number of cigarettes Other, describe: ANSWERS FROM OCCASIONAL SMOKERS
9.1 Do you smoke? (one answer) No, I have never smoked No, but I have previously smoked Yes, occasionally (less than 1 cigarette per day). Yes, daily ANSWERS FROM DAILY SMOKERS 9.2 How many cigarettes do you smoke on average? (daily number of cigarettes) Number of cigarettes Other, describe: ANSWERS FROM OCCASIONAL SMOKERS 9.3 How many cigarettes do you smoke on average a week? (weekly number of cigarettes)
9.1 Do you smoke? (one answer) No, I have never smoked No, but I have previously smoked Yes, occasionally (less than 1 cigarette per day). Yes, daily ANSWERS FROM DAILY SMOKERS 9.2 How many cigarettes do you smoke on average? (daily number of cigarettes) Number of cigarettes Other, describe: ANSWERS FROM OCCASIONAL SMOKERS 9.3 How many cigarettes do you smoke on average a week? (weekly number of cigarettes) Number of cigarettes Other, describe: Other, describe:
9.1 Do you smoke? (one answer) No, I have never smoked No, but I have previously smoked Yes, occasionally (less than 1 cigarette per day). Yes, daily ANSWERS FROM DAILY SMOKERS 9.2 How many cigarettes do you smoke on average? (daily number of cigarettes) Number of cigarettes Other, describe: ANSWERS FROM OCCASIONAL SMOKERS 9.3 How many cigarettes do you smoke on average a week? (weekly number of cigarettes) Number of cigarettes Other, describe: ANSWERS FROM OCCASIONAL AND FORMER SMOKERS
9.1 Do you smoke? (one answer) No, I have never smoked No, but I have previously smoked Yes, occasionally (less than 1 cigarette per day). Yes, daily ANSWERS FROM DAILY SMOKERS 9.2 How many cigarettes do you smoke on average? (daily number of cigarettes) Number of cigarettes Other, describe: ANSWERS FROM OCCASIONAL SMOKERS 9.3 How many cigarettes do you smoke on average a week? (weekly number of cigarettes) Number of cigarettes Other, describe: ANSWERS FROM OCCASIONAL AND FORMER SMOKERS 9.4 Have you previously smoked every day? yes no
9.1 Do you smoke? (one answer) No, I have never smoked No, but I have previously smoked Yes, occasionally (less than 1 cigarette per day). Yes, daily ANSWERS FROM DAILY SMOKERS 9.2 How many cigarettes do you smoke on average? (daily number of cigarettes) Number of cigarettes Other, describe: ANSWERS FROM OCCASIONAL SMOKERS 9.3 How many cigarettes do you smoke on average a week? (weekly number of cigarettes) Number of cigarettes Other, describe: ANSWERS FROM OCCASIONAL AND FORMER SMOKERS 9.4 Have you previously smoked every day? yes no 9.5 If yes, how much did you smoke on average a day?

10. ALCOHOL
10.1 Have you been drinking alcohol in the past year? — No — Yes
10.2 How much was you average weekly intake during the past 12 months? (Write '0' if none) drinks per week
11. HEIGHT AND WEIGHT
11.1 What is your current height (without shoes)? cm
11.2 What is your current weight without clothes and shoes?kg
12. DERMATOLOGY LIFE QUALITY INDEX (DLQI)
12.1 Within the past week to what extent has your skin been itching, sore, hurting or stinging? Extremely — Very — A bit — Not at all
12.2 Within the past week to what extent have you been embarrassed or shy because of your skin? Extremely — Very — A bit — Not at all
12.3 Within the past week to what extent has your skin bothered you in terms of shopping or taking care of your house or back yard? Extremely — Very — A bit — Not at all — Not relevant
12.4 Within the past week to what extent has your skin affected the way you dress? Extremely Very A bit Not at all Not relevant
12.5 Within the past week to what extent has you skin affected your social activities or leisure activities? Extremely — Very — A bit — Not at all — Not relevant
12.6 Within the past week to what extent has you skin complicated your opportunities of exercise? Extremely — Very — A bit — Not at all — Not relevant
12.7 Within the past week has your skin prevented you from working or studying? — Yes — No — Not relevant
If "No", within the past week has your skin been a problem for you at work or during studies? Extremely Very A bit Not at all
12.8 Within the past week to what extent has your skin caused problems in relation to your partner, close friends or relatives? Extremely — Very — A bit — Not at all — Not relevant
12.9 Within the past week to what extent has your skin caused sexual problems? Extremely — Very — A bit — Not at all — Not relevant
12.10 Within the past week, has treatment of your skin caused problems, e.g. by making your home messy or dirty, or by being time consuming? Extremely — Very — A bit — Not at all — Not relevant