

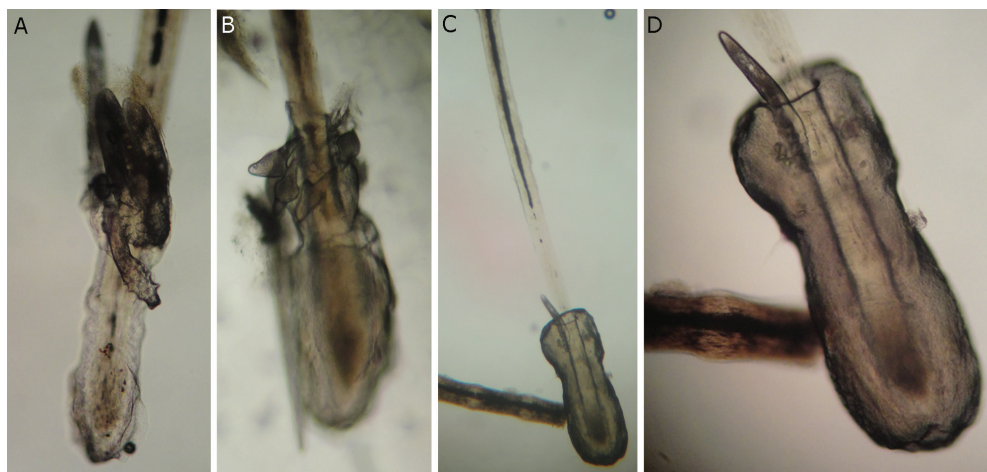


Fig. S1. Epilated lash of a patient with cylindrical dandruff, showing *Demodex folliculorum* protruding at the base of the hair: (A) usual presentation of some adult mites (x100); (B): at least 4 eggs of *D. folliculorum* (x100); (C): inner root sheath epilated with the hair shaft, showing one *D. folliculorum* at the opening of the pilosebaceous orifice (x40), (D): closer view of this mite showing the opisthosoma protruding externally, the bag close to the hair shaft, and the mouthparts orientated externally to the epithelial cells of the infundibulum, as described by English and Nutting (51) (x100).



Fig. S2. A 43-year old woman with demodectic excoriated prurigo of the face. (a): right cheek, with SSSB1+SSSB2 values indicated on the figure, sampled at the angle of the jaw on the right side. (b) At closer examination, excoriated papules and dilated pilosebaceous orifices; (c) Non-excoriated papule (white arrow) with discrete pityriasis folliculorum (blue arrows). Patient permission was obtained.

Table SI. Clinical diagnoses of the 844 patients included in the study

Clinical groups	Patients <i>n</i> (%)
PPR suggestive	
With persistent erythema	215 (25.5)
Without persistent erythema	27 (3.2)
Granulomatous rosacea	7 (0.8)
Steroid-induced rosacea	5 (0.6)
PPR-suggestive ALL	254 (30.1)
Demodicosis	
Pityriasis folliculorum	445 (52.7)
Follicular eczematids	80 (9.5)
Folliculitis	44 (5.2)
Pigmentation	14 (1.7)
Isolated inflammatory papule	6 (0.7)
Isolated ocular demodicosis	1 (0.1)
Demodicosis ALL	590 (69.9)
TOTAL	844 (100)

PPR: papulopustular rosacea.

Table SII. Clinical signs and symptoms in the full cohort of 844 patients with papulopustular rosacea (PPR)-suggestive or demodicosis, and in the two subgroups^a

Clinical signs and symptoms	Full cohort <i>n</i> = 844 <i>n</i> (%)	Subgroup A <i>n</i> = 488 <i>n</i> (%)	Subgroup B <i>n</i> = 490 <i>n</i> (%)
Vascular symptoms ^b	677 (80)	366 (75)	399 (81)
Flushes	531 (63)	287 (59)	316 (64)
Persistent erythema	601 (71)	325 (67)	353 (72)
Follicular scales (skin)	782 (93)	457 (94)	460 (94)
Papules	330 (39)	177 (36)	174 (36)
Pustules	188 (22)	101 (21)	91 (19)
Follicular eczematids	108 (13)	41 (8)	75 (15)
Pigmentation	15 (2)	8 (2)	12 (2)
Cylindrical dandruff (lash)	72 (9)	65 (13)	76 (16)
Blepharitis	78 (9)	56 (12)	56 (11)
Conjunctivitis	12 (1)	7 (1)	9 (2)
Chalazion	18 (2)	12 (3)	9 (2)
Pruritus	130 (15)	117 (24)	68 (14)
Scalp complaint	321 (38)	244 (50)	164 (33)
Ocular involvement	180 (21)	140 (29)	103 (21)

^aA (488 patients included from August 2005) and B (490 patients who had had no recent treatment and did not have an associated facial dermatosis). ^bflushes or persistent erythema.

Table SIII. Presence of follicular scales and vascular symptoms according to clinical diagnosis in subgroup B: 490 patients with no recent treatment or other associated facial dermatosis

Clinical diagnosis	n	Follicular scales		Vascular symptoms ^a	
		n (%)	p-value	n (%)	p-value
PPR-suggestive					
With persistent erythema	120	113 (94)	1.000	120 (100)	<0.001
Without persistent erythema	12	11 (92)		4 (33)	
Granulomatous rosacea	1	1 (100)		1 (100)	
Steroid-induced rosacea	0				
PPR-suggestive ALL ^c	133	125 (94)		125 (94)	
Demodicosis					
Pityriasis folliculorum	261	258 (99)	<0.001	216 ^b (83)	0.001
Follicular eczematids	56	41 (73)		33 (59)	
Folliculitis	26	25 (96)		16 (62)	
Pigmentation	11	9 (82)		7 (64)	
Isolated inflammatory papule	3	2 (67)		2 (67)	
Demodicosis ALL ^c	357	335 (94)		58 (16)	
TOTAL	490	460 (94)		183 (37)	

^aflushes or persistent erythema. ^bincluding 26 (10%) with only flushes. ^cvascular symptoms were more frequent in the PPR-suggestive group than in demodicosis group ($p < 0.001$), whereas the frequency of follicular scales was not different between these two groups ($p = 1.000$).

Table SIV. Mean Demodex densities in the facial skin according to the presence or absence of ocular involvement and scalp symptoms in subgroup A: patients included from August 2005

Patients	n (%)	SSSB 1			SSSB 2			SSSB 1+2	
		Mean±SEM	p		Mean±SEM	p		Mean±SEM	p
With ocular involvement	140 (29)	116±10	<0.001	}	268±20	<0.001	}	383±27	<0.001
Without ocular involvement	348 (71)	86±6			165±10			251±14	
With scalp complaints	244 (50)	101±8	0.343	}	204±13	0.292	}	305±18	0.248
Without scalp complaints	244 (50)	88±7			185±13			273±18	
TOTAL	488 (100)	95±5			194±9			289±13	

SSSB: standardised skin surface biopsy; SEM: standard error of the mean.

Table SV. Mean Demodex densities in the facial skin according to the presence or absence of ocular involvement in the whole cohort

Patients	n (%)	SSSB 1		SSSB 2		SSSB 1+2	
		Mean±SEM	p	Mean±SEM	p	Mean±SEM	p
With ocular involvement	180 (21)	108±9	} 0.002	263±17	} <0.001	371±23	} <0.001
Without ocular involvement	664 (79)	77±4		157±7		234±9	
All patients	844 (100)	84±4		180±7		264±9	

SSSB: standardised skin surface biopsy; SEM: standard error of the mean.

Table SVI. Mean number of Demodex/eyelash in the different subgroups of clinical ocular involvement (whole cohort)

Ocular involvement	Patients <i>n</i> (%)	Patients with analysed lashes <i>n</i>	Number of D observed in the lashes/patient Mean $\pm$ SEM	Number of epilated lashes/patient Mean $\pm$ SEM	Number of D/lash Mean $\pm$ SEM	<i>p</i>
Cylindrical scales	72 (40.0)	66	8.6 $\pm$ 0.8	5.2 $\pm$ 0.2	1.8 $\pm$ 0.2	0.063
Blepharitis	78 (43.3)	71	7.3 $\pm$ 0.6	5.3 $\pm$ 0.3	1.5 $\pm$ 0.1	
Conjunctivitis	12 (6.7)	9	6.8 $\pm$ 1.8	6.2 $\pm$ 1.0	1.2 $\pm$ 0.3	
Chalazion	18 (10.0)	15	4.0 $\pm$ 1.3	4.6 $\pm$ 0.5	1.0 $\pm$ 0.4	
ALL	180 (100)	161	7.5 $\pm$ 0.5	5.2 $\pm$ 0.2	1.6 $\pm$ 0.1	

D: Demodex; SEM: standard error of the mean.

Table SVII. Mean Demodex densities in the skin, in the different subgroups of clinical ocular involvement (whole cohort)

Ocular involvement	Patients <i>n</i> (%)	SSSB 1		SSSB 2		SSSB 1+2	
		Mean±SEM	<i>p</i>	Mean±SEM	<i>p</i>	Mean±SEM	<i>p</i>
Cylindrical scales	72 (40)	124±15	0.123	297±26	0.061	421±37	0.056
Blepharitis	78 (43)	95±11		260±28		356±35	
Conjunctivitis	12 (7)	51±24		126±35		177±56	
Chalazion	18 (10)	138±39		229±45		367±68	
ALL	180 (100)	108±9		263±17		371±23	

SSSB: standardised skin surface biopsy; SEM: standard error of the mean.