

Supplementary Online Content

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This supplementary material has been provided by the authors to give readers additional information about their work.

eTable 1. Scalp-Specific Investigator’s Global Assessment (ss-IGA)

Patients with psoriasis of the scalp will be assessed using the 5-point ss-IGA presented below. Only patients with an ss-IGA score ≥ 2 at baseline will be included in the subset of patients analyzed for efficacy.

<u>Score</u>	<u>Category</u>	<u>Description</u>
0	Absence of Disease	No evidence of redness, no evidence of thickness, and no evidence of scaliness on the scalp.
1	Very Mild Disease	The overall clinical picture consists of flat lesions with barely perceptible erythema, with or without a trace of overlying fine scale
2	Mild Disease	The overall clinical picture consists of lesions with mild erythema, slight, but definite, thickness, and a thin scale layer
3	Moderate Disease	The overall clinical picture consists of lesions with moderate erythema, a moderate thickness, and a moderate scaled layer
4	Severe Disease	The overall clinical picture consists of lesions with bright erythema, severe thickness and a severe, coarse thick scale layer

eTable 2. Physician’s Global Assessment of Hands and/or Feet (hf-PGA)

Hand and foot psoriasis will be assessed using the Physician’s Global Assessment of Hands and/or Feet (hf-PGA) shown below. A score of 0 to 4 should be assigned, based on the category that best describes the severity of psoriasis of the patient’s palms and soles.

Hand and Foot Psoriasis Severity Score:

0 = Clear	No signs of psoriasis; post inflammatory hyperpigmentation may be present
1 = Almost Clear	Pink coloration, minimal fine scaling
2 = Mild	Mild clearly distinguishable erythema, no thickening of the skin, with mild scaling, with or without pustules
3 = Moderate	Dull-red erythema with moderate diffuse scaling, and some thickening of the skin, with or without fissures, with or without pustule formation
4 = Severe	Deep, dark-red erythema with severe diffuse scaling and thickening as well as numerous fissures, with or without pustule formation

eTable 3. Fingernail Physician's Global Assessment (f-PGA)

Fingernail psoriasis will be assessed using a 5-point PGA scale. The assessor should select the category that best represents the condition of all of the fingernails.

0 = Clear	Normal fingernails with no signs of psoriasis in the nail plates or nail beds
1 = Minimal	Just perceptible nail plate pitting, crumbling, onycholysis, oil drop discoloration, and/or nail bed hyperkeratosis
2 = Mild	Mild nail plate pitting, crumbling, onycholysis, oil drop discoloration, and/or nail bed hyperkeratosis
3 = Moderate	Moderate nail plate pitting, crumbling, onycholysis, oil drop discoloration, and/or nail bed hyperkeratosis
4 = Severe	Severe nail plate pitting, crumbling, onycholysis, oil drop discoloration, and/or nail bed hyperkeratosis

eTable 4. Target Nail Psoriasis Severity Index (NAPSI)

The Target Fingernail is defined as the nail most affected by psoriasis at the baseline evaluation (Week 0).

Assessment of Target Fingernail

Target Fingernail:

- 1 = Left thumb
- 2 = Left index finger
- 3 = Left middle finger
- 4 = Left ring finger
- 5 = Left little finger
- 6 = Right thumb
- 7 = Right index finger
- 8 = Right middle finger
- 9 = Right ring finger
- 10 = Right little finger

The target nail is graded for **nail matrix psoriasis** and **nail bed psoriasis** in each quadrant, as described below:

Are **any** of the following 4 **nail matrix** psoriasis features present: pitting, leukonychia, red spots in the lunula, nail plate crumbling?

- none present
- present in 1 quadrant
- present in 2 quadrants
- present in 3 quadrants
- present in 4 quadrants



Are **any** of the following 4 **nail bed** psoriasis features present: onycholysis, oil drop (salmon patch) dyschromia, splinter hemorrhages, subungual hyperkeratosis?

- none present
 - present in 1 quadrant
 - present in 2 quadrants
 - present in 3 quadrants
 - present in 4 quadrants
-

eTable 5. Demographic and Disease Characteristics of Randomized Patients with Scalp-Specific Investigator’s Global Assessment Scores at Baseline^a

<u>Characteristic</u>	<u>Placebo</u> <u>(n= 362)</u>	<u>Guselkumab</u> <u>(n=714)</u>	<u>Adalimumab</u> <u>(n=500)</u>	<u>Total</u> <u>(n=1576)</u>
Male sex	248 (68.5)	512 (71.7)	355 (71.0)	1115 (70.7)
White race	298 (82.3)	573 (80.3)	409 (81.8)	1280 (81.2)
Age, mean (SD), y	43.2 (12.38)	43.3 (12.27)	42.6 (12.20)	43.0 (12.27)
BMI				
Normal (< 25) ^b	96 (26.5)	156 (21.8)	125 (25.1)	377 (23.9)
Overweight (25 to < 30)	125 (34.5)	271 (38.0)	177 (35.5)	573 (36.4)
Obese (≥ 30)	141 (39.0)	287 (40.2)	197 (39.5)	625 (39.7)
Duration of psoriasis, mean (SD), y	17.4 (11.71)	17.7 (11.66)	17.1 (11.41)	17.4 (11.59)
DLQI score, mean (SD) ^{c,d}	14.8 (7.17)	14.7 (7.06)	14.7 (7.29)	14.7 (7.16)
PSSD score, mean (SD) ^{c,e}				
Symptom score	55.5 (24.11)	55.2 (25.15)	54.3 (26.24)	54.9 (25.28)
Sign score	59.0 (20.44)	57.4 (21.79)	58.1 (21.69)	58.0 (21.46)
PASI score, mean (SD) ^c	21.34 (8.55)	22.27 (9.22)	22.35 (9.17)	22.08 (9.06)
IGA score ^c				
Moderate (3)	268 (74.0)	545 (76.3)	367 (73.4)	1180 (74.9)
Severe (4)	94 (26.0)	169 (23.7)	133 (26.6)	396 (25.1)

Abbreviations: BMI, body mass index (calculated as weight in kilograms divided by height in meters squared); DLQI, Dermatology Life Quality Index; IGA, Investigator’s Global Assessment; PASI, Psoriasis Area and Severity Index; PSSD, Psoriasis Symptoms and Signs Diary; SD, standard deviation.

^aData are presented as number (percentage) of patients unless otherwise indicated.

^bSample sizes were 362 for the placebo group, 571 for the guselkumab group, 499 for the adalimumab group, and 1575 total patients.

^cScores are described in the Methods section.

^dSample sizes were 359 for the placebo group, 706 for the guselkumab group, 493 for the adalimumab group, and 1558 total patients.

^eSample sizes were 277 for the placebo group, 571 for the guselkumab group, 412 for the adalimumab group, and 1260 total patients.

eTable 6. Demographic and Disease Characteristics of Randomized Patients with Physician’s Global Assessment of the Hands and/or Feet Scores at Baseline^a

<u>Characteristic</u>	<u>Placebo</u> <u>(n= 111)</u>	<u>Guselkumab</u> <u>(n=227)</u>	<u>Adalimumab</u> <u>(n=163)</u>	<u>Total</u> <u>(n=501)</u>
Male sex	77 (69.4)	169 (74.4)	122 (74.8)	368 (73.5)
White race	82 (73.9)	165 (72.7)	124 (76.1)	371 (74.1)
Age, mean (SD), y	47.1 (11.94)	44.6 (12.20)	43.0 (11.42)	44.6 (11.96)
BMI				
Normal (< 25)	32 (28.8)	63 (27.8)	34 (20.9)	129 (25.7)
Overweight (25 to < 30)	39 (35.1)	78 (34.4)	60 (36.8)	177 (35.3)
Obese (≥ 30)	40 (36.0)	86 (37.9)	69 (42.3)	195 (38.9)
Duration of psoriasis, mean (SD), y	18.1 (12.10)	17.6 (12.82)	16.7 (10.73)	17.4 (12.00)
DLQI score, mean (SD) ^{b,c}	16.2 (7.18)	15.5 (7.11)	15.6 (6.96)	15.7 (7.07)
PSSD score, mean (SD) ^{b,d}				
Symptom score	58.9 (23.29)	58.9 (25.77)	56.3 (24.95)	58.0 (24.91)
Sign score	60.8 (20.91)	59.2 (22.31)	58.6 (19.69)	59.3 (21.10)
PASI score, mean (SD) ^b	24.25 (10.75)	25.01 (10.52)	24.34 (11.07)	24.62 (10.73)
IGA score ^b				
Moderate (3)	73 (65.8)	160 (70.5)	123 (75.5)	356 (71.1)
Severe (4)	38 (34.2)	67 (29.5)	40 (24.5)	145 (28.9)

Abbreviations: BMI, body mass index (calculated as weight in kilograms divided by height in meters squared); DLQI, Dermatology Life Quality Index; IGA, Investigator’s Global Assessment; PASI, Psoriasis Area and Severity Index; PSSD, Psoriasis Symptoms and Signs Diary; SD, standard deviation.

^aData are presented as number (percentage) of patients unless otherwise indicated.

^bScores are described in the Methods section.

^cSample sizes were 108 for the placebo group, 220 for the guselkumab group, 157 for the adalimumab group, and 485 total patients.

^dSample sizes were 95 for the placebo group, 178 for the guselkumab group, 138 for the adalimumab group, and 411 total patients.

eTable 7. Demographic and Disease Characteristics of Randomized Patients with Fingernail Physician’s Global Assessment Scores at Baseline^a

<u>Characteristic</u>	<u>Placebo (n=238)</u>	<u>Guselkumab (n=478)</u>	<u>Adalimumab (n=333)</u>	<u>Total (n=1049)</u>
Male sex	183 (76.9)	360 (75.3)	248 (74.5)	791 (75.4)
White race	200 (84.0)	390 (81.6)	279 (83.8)	869 (82.8)
Age, mean (SD), y	44.7 (12.34)	43.7 (11.81)	42.8 (11.60)	43.7 (11.88)
BMI				
Normal (< 25) ^b	57 (23.9)	97 (20.3)	78 (23.5)	232 (22.1)
Overweight (25 to < 30)	88 (37.0)	181 (37.9)	113 (34.0)	382 (36.5)
Obese (≥ 30)	93 (39.1)	200 (41.8)	141 (42.5)	434 (41.4)
Duration of psoriasis, mean (SD), y	18.2 (11.82)	18.6 (12.04)	17.6 (10.86)	18.2 (11.62)
DLQI score, mean (SD) ^{c,d}	14.9 (7.17)	14.8 (7.10)	15.1 (7.11)	14.9 (7.11)
PSSD score, mean (SD)^{c,e}				
Symptom score	53.5 (24.39)	56.5 (25.07)	53.3 (25.64)	54.8 (25.13)
Sign score	56.7 (21.15)	58.2 (21.91)	57.0 (21.54)	57.5 (21.61)
PASI score, mean (SD) ^c	22.04 (8.71)	23.04 (9.45)	22.28 (8.64)	22.57 (9.04)
IGA score^c				
Moderate (3)	179 (75.2)	359 (75.1)	256 (76.9)	794 (75.7)
Severe (4)	59 (24.8)	119 (24.9)	77 (23.1)	255 (24.3)

Abbreviations: BMI, body mass index (calculated as weight in kilograms divided by height in meters squared); DLQI, Dermatology Life Quality Index; IGA, Investigator’s Global Assessment; PASI, Psoriasis Area and Severity Index; PSSD, Psoriasis Symptoms and Signs Diary; SD, standard deviation.

^aData are presented as number (percentage) of patients unless otherwise indicated.

^bSample sizes were 238 for the placebo group, 478 for the guselkumab group, 332 for the adalimumab group and 1048 total patients.

^cScores are described in the Methods section.

^dSample sizes were 235 for the placebo group, 471 for the guselkumab group, 326 for the adalimumab group, and 1032 total patients.

^eSample sizes were 186 for the placebo group, 384 for the guselkumab group, 269 for the adalimumab group, and 839 total patients.

eTable 8. Demographic and Disease Characteristics of Randomized Patients with Nail Psoriasis Severity Index Scores at Baseline^a

<u>Characteristic</u>	<u>Placebo</u> <u>(n= 239)</u>	<u>Guselkumab</u> <u>(n=474)</u>	<u>Adalimumab</u> <u>(n=331)</u>	<u>Total</u> <u>(n=1044)</u>
Male sex	184 (77.0)	357 (75.3)	247 (74.6)	788 (75.5)
White race	201 (84.1)	386 (81.4)	277 (83.7)	864 (82.8)
Age, mean (SD), y	44.7 (12.32)	43.8 (11.82)	42.9 (11.61)	43.7 (11.88)
BMI				
Normal (< 25) ^b	57 (23.8)	97 (20.5)	77 (23.3)	231 (22.1)
Overweight (25 to < 30)	89 (37.2)	179 (37.8)	113 (34.2)	381 (36.5)
Obese (≥ 30)	93 (38.9)	198 (41.8)	140 (42.4)	431 (41.3)
Duration of psoriasis, mean (SD), y	18.2 (11.82)	18.6 (12.05)	17.6 (10.83)	18.2 (11.62)
DLQI score, mean (SD) ^{c,d}	14.9 (7.19)	14.8 (7.06)	15.1 (7.16)	14.9 (7.12)
PSSD score, mean (SD) ^{c,e}				
Symptom score	53.5 (24.39)	56.6 (24.96)	53.4 (25.67)	54.9 (25.08)
Sign score	56.7 (21.15)	58.3 (21.69)	57.0 (21.62)	57.6 (21.53)
PASI score, mean (SD) ^c	22.05 (8.69)	22.81 (9.11)	22.16 (8.56)	22.43 (8.84)
IGA score ^c				
Moderate (3)	180 (75.3)	356 (75.1)	254 (76.7)	790 (75.7)
Severe (4)	59 (24.7)	118 (24.9)	77 (23.3)	254 (24.3)

Abbreviations: BMI, body mass index (calculated as weight in kilograms divided by height in meters squared); DLQI, Dermatology Life Quality Index; IGA, Investigator's Global Assessment; PASI, Psoriasis Area and Severity Index; PSSD, Psoriasis Symptoms and Signs Diary; SD, standard deviation.

^aData are presented as number (percentage) of patients unless otherwise indicated.

^bSample sizes were 239 for the placebo group, 474 for the guselkumab group, 330 for the adalimumab group, and 1043 total patients.

^cScores are described in the Methods section.

^dSample sizes were 236 for the placebo group, 467 for the guselkumab group, 324 for the adalimumab group, and 1027 total patients.

^eSample sizes were 186 for the placebo group, 381 for the guselkumab group, 267 for the adalimumab group, and 834 total patients.