Supplement 3: Demographics and other baseline characteristics by group

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| --- | --- | --- | --- | --- | --- | --- |
|  | **Group A BSD-DAC** | | | **Group B DAC-BSD** | | |
| Age groups (years) | **Children** | **Adults** | **Total** | **Children** | **Adults** | **Total** |
| N | 12 | 12 | 24 | 14\* | 12 | 26\* |
| Age  Mean (SD) |  |  |  |  |  |  |
| 3.5 (2.3) | 33.5 (8.1) | 18.5 (16.4) | 4.6 (1.7) | 36.3 (12.6) | 19.2 (18,2) |
| Sex  n male (%)  n female (%) |  |  |  |  |  |  |
| 7 (58%) | 3 (25%) | 10 (42%) | 7 (50%) | 5 (42%) | 12 (46%) |
| 5 (42%) | 9 (75%) | 14 (58%) | 7 (50%) | 7 (58%) | 14 (54%) |
| Ethnicity,  n Caucasian (%)  n Other (%) |  |  |  |  |  |  |
| 10 (83%) | 11 (92%) | 21 (87%) | 14 (100%) | 12 (100%) | 26 (100%) |
| 2 (17%) | 1 (8%) | 3 (13%) | - | - | - |
| Phototype,  n I (%)  n II (%)  n III (%) |  |  |  |  |  |  |
| - | 2 (17%) | 2 (8%) | - | 1 (8%) | 1 (4%) |
| 10 (83%) | 8 (66%) | 18 (75%) | 13 (93%) | 5 (42%) | 18 (69%) |
| 2 (17%) | 2 (17%) | 4 (17%) | 1 (7%) | 6 (50%) | 7 (27%) |
| TEWL Forearm  Mean (SD)  Median [IQR] |  |  |  |  |  |  |
| 9.9 (2.6) | 11.1 (2.6) | 10.5 (2.6) | 10.7 (2.5) | 10.3 (2.6) | 10.5 (2.5) |
| 10.1 [7.5-12.1] | 10.9 [9.4-13.6] | 10.5 [9.4-13.0] | 10.4 [9.0-12.7] | 10.1 [8.0-11.4] | 10.1[8.1-11.8] |
| SCH Forearm  Mean (SD)  Median [IQR] |  |  |  |  |  |  |
| 28.7 (9.1) | 30.2 (8.9) | 29.4 (8.8) | 30.2 (6.5) | 26.4 (10.3) | 28.5 (8.5) |
| 28.5 [19.4-37.3] | 29.4 [27.0-35.1] | 29.4 [23.0-35.8] | 29.5 [25.8-35.2] | 26.8 [20.7-30.6] | 28.1 [23.8-32.8] |
| ph Forearm  Mean (SD)  Median [IQR] |  |  |  |  |  |  |
| 5.0 (0.5) | 4.8 (0.4) | 4.9 (0.4) | 4.9 (0.4) | 4.7 (0.4) | 4.8 (0.4) |
| 5.0 [4.7-5.4] | 4.9 [4.4-5.2] | 4.9 [4.7-5.3] | 5.0 [4.5-5.2] | 4.8 [4.5-5.0] | 4.9 [4.5-5.1] |
| TEWL Lower leg  Mean (SD)  Median [IQR] |  |  |  |  |  |  |
| 9.9 (2.4) | 7.9 (1.9) | 8.9 (2.4) | 10.3 (3.1) | 8.9 (3.1) | 9.6 (3.1) |
| 9.5 [8.1-12.3] | 7.9 [6.7-8.9] | 8.2 [7.4-10.8] | 10.4 [8.0-11.8] | 7.8 [6.7-9.8] | 8.3 [7.2-11.6] |
| SCH Lower leg  Mean (SD)  Median [IQR] |  |  |  |  |  |  |
| 25.3 (8.1) | 20.9 (7.7) | 23.1 (8.0) | 24.2 (6.6) | 20.7 (9.9) | 22.5 (8.3) |
| 24.3 [18.9-30.1] | 20.9 [18.7-27.2] | 21.7 [18.8-29.1] | 23.4 [19.0-30.7] | 23.4 [9.3-28.6] | 23.4 [15.9-30.0] |
| ph Lower leg  Mean (SD)  Median [IQR] |  |  |  |  |  |  |
| 5.1 (0.6) | 4.7 (0.4) | 4.9 (0.5) | 4.9 (0.4) | 5.0 (0.5) | 5.0 (0.5) |
| 5.1 [4.7-5.3] | 4.6 [4.5-4.9] | 4.9 [4.5-5.2] | 4.9 [4.8-5.2] | 4.9 [4.7-5.5] | 4.9 [4.7-5.2] |
| EASI  Mean (SD)  Median [IQR] |  |  |  |  |  |  |
| 2.6 (1.1) | 3.2 (2.0) | 2.9 (1.6) | 1.9 (1.2) | 1.5 (1.2) | 1.7 (1.2) |
| 2.6 [2.1-3.5] | 3.2 [1.2-5.0] | 2.6 [1.9-4.2] | 1.6 [1.3-2.3] | 1.3 [0.6-2.8] | 1.4 [1.0-2.5] |

\* one lower leg value missing for TEWL and SCH

**Supplement 3 legend:**

Demographic and baseline characteristics according to the group of interventions (Group A: BSD-DAC, Group B: DAC-BSD). Baseline results were similar for both groups for age and gender as well as skin physiological parameters. The median baseline EASI of 2.9 in group A was higher, compared to group B with 1.7.