

Table SIV. Primary outcome assessments

Baseline Mean (SD)	4 weeks Mean (SD)				95% CI for difference in mean change from baseline Mean [CI] (p-value)			
	Sunflower oil n=38	No oil n=39	Olive oil n=27	Sunflower oil n=30	No oil n=35	Olive oil-sunflower oil	Olive oil-no oil	Sunflower oil-no oil
TEWL								
Pre tape-stripping								
Arm	12.03 (2.44)	12.43 (2.24)	13.98 (2.98)	13.60 (2.75)	13.38 (3.02)	0.18 [-1.62-1.98] (0.841)	1.17 [-0.64-2.98] (0.200)	0.99 [-0.59-2.57] (0.214)
Abdomen	11.25 (2.11)	11.61 (2.63)	12.00 (3.14)	11.00 (1.69)	11.45 (2.21)	0.06 [-1.27-1.40] (0.925)	0.68 [-0.82-2.18] (0.366)	0.62 [-0.67-1.91] (0.339)
Thigh	13.16 (3.00)	13.62 (2.33)	13.40 (2.25)	12.60 (2.79)	13.38 (2.11)	0.54 [-0.89-1.97] (0.454)	0.52 [-0.89-1.93] (0.465)	-0.02 [-1.25-1.21] (0.973)
Post tape-stripping								
Arm	13.39 (2.85)	14.63 (6.10)	16.87 (3.70)	16.63 (4.36)	17.95 (11.11)	-0.96 [-3.23-1.31] (0.401)	0.25 [-5.22-5.73] (0.927)	1.21 [-3.94-6.37] (0.640)
Abdomen	12.48 (2.83)	12.59 (2.87)	13.75 (3.14)	13.95 (2.58)	13.56 (2.17)	-1.32 [-3.15-0.50] (0.152)	-0.46 [-2.43-1.51] (0.639)	0.86 [-1.02-2.74] (0.365)
Thigh	14.30 (3.01)	14.63 (2.84)	14.70 (3.33)	13.87 (2.58)	15.52 (4.91)	-0.20 [-1.79-1.38] (0.798)	-0.71 [-3.28-1.86] (0.582)	-0.51 [-2.86-1.85] (0.667)
Lipid chain conformation (N_{asym} CH₂ COG)								
Pre tape-stripping								
Arm	2,851.72 (1.04)	2,851.79 (0.70)	2,851.73 (0.51)	2,851.96 (0.78)	2,851.29 (0.66)	-0.02 [-0.48-0.44] (0.924)	0.53 [0.13-0.94] (0.011)*	0.56 [0.14-0.97] (0.010)*
Abdomen	2,851.74 (0.51)	2,852.00 (0.74)	2,851.89 (0.46)	2,851.91 (0.68)	2,851.16 (0.61)	0.14 [-0.19-0.47] (0.401)	1.02 [0.66-1.38] (<0.001)*	0.88 [0.52-1.25] (<0.001)*
Thigh	2,851.45 (0.60)	2,851.56 (0.67)	2,851.86 (0.64)	2,851.91 (0.62)	2,850.91 (0.73)	0.21 [-0.30-0.71] (0.419)	1.29 [0.77-1.81] (<0.001)*	1.08 [0.55-1.61] (<0.001)*
Post tape-stripping								
Arm	2,851.61 (0.81)	2,851.86 (1.20)	2,851.16 (0.70)	2,851.08 (0.63)	2,850.80 (0.60)	0.38 [-0.23-1.00] (0.214)	0.57 [-0.08-1.21] (0.083)	0.18 [-0.48-0.85] (0.582)
Abdomen	2,851.58 (0.58)	2,851.67 (0.70)	2,851.49 (0.64)	2,851.38 (0.59)	2,850.85 (0.54)	0.30 [-0.14-0.75] (0.179)	0.85 [0.46-1.23] (<0.001)*	0.54 [0.15-0.93] (0.007)*
Thigh	2,851.33 (0.58)	2,851.48 (0.86)	2,851.34 (0.73)	2,851.38 (0.60)	2,850.94 (0.74)	0.26 [-0.30-0.81] (0.357)	0.54 [0.03-1.05] (0.040)*	0.28 [-0.24-0.80] (0.279)
Lateral lipid chain packing (FWHM)								
Pre tape-stripping								
Arm	5.76 (1.07)	5.71 (0.74)	6.15 (0.87)	5.84 (1.10)	6.57 (1.29)	0.09 [-0.56-0.73] (0.791)	-0.74 [-1.51-0.03] (0.058)	-0.83 [-1.55 to -0.11] (0.024)*
Abdomen	5.86 (0.57)	5.79 (0.53)	6.31 (0.85)	5.90 (1.20)	6.95 (0.97)	0.35 [-0.19-0.89] (0.198)	-0.92 [-1.40 to -0.44] (<0.001)*	-1.27 [-1.82 to -0.73] (<0.001)*
Thigh	5.89 (0.86)	6.21 (0.70)	6.03 (1.09)	5.80 (1.19)	6.63 (1.13)	0.37 [-0.35-1.10] (0.307)	-0.92 [-1.73 to -0.10] (0.028)*	-1.29 [-2.12 to -0.46] (0.003)*
Post tape-stripping								
Arm	5.83 (1.09)	5.97 (1.07)	6.85 (1.21)	7.12 (1.02)	7.63 (0.90)	-0.47 [-1.26-0.32] (0.238)	-0.98 [-1.73 to -0.23] (0.011)*	-0.52 [-1.21 to -0.18] (0.141)
Abdomen	6.03 (0.68)	5.86 (0.77)	6.61 (1.12)	6.87 (1.21)	7.51 (0.97)	-0.45 [-1.16-0.25] (0.205)	-0.95 [-1.50 to -0.40] (0.001)*	-0.49 [-1.12-0.14] (0.121)
Thigh	6.33 (0.95)	6.19 (0.86)	6.98 (1.29)	6.83 (1.54)	7.39 (1.08)	-0.08 [-0.96-0.80] (0.856)	-0.35 [-1.11-0.41] (0.360)	-0.27 [-0.93-0.40] (0.427)

*p < 0.05. TEWL: trans-epidermal water loss; FWHM: full width at half maximum; CI: confidence interval; SD: standard deviation.