

Multimedia Appendix 3: Supplementary tables and figures.

Table S1. Study population profile, overall and by questionnaire version.

| | All | Hand surface | Credit Card | Body Schemes |
|---|-------------|---------------------|--------------------|---------------------|
| | Mean (SD) | Mean (SD) | Mean (SD) | Mean (SD) |
| Female (n (%)) | | | | |
| | 65 (67%) | 20 (63%) | 23 (70%) | 22 (69%) |
| Age | | | | |
| | 25.5 (4.8) | 26.1 (5.6) | 24.3 (3.5) | 26.1 (5.2) |
| Height | | | | |
| | 1.65 (0.1) | 1.65 (0.1) | 1.64 (0.1) | 1.66 (0.7) |
| Weight | | | | |
| | 60.4 (10.2) | 59.8 (9.1) | 61.5 (9.2) | 59.9 (12.3) |
| Total body surface (m ²) | | | | |
| | 1.59 (0.16) | 1.59 (0.13) | 1.59 (1.39) | 1.6 (0.21) |
| Male (n (%)) | | | | |
| | 32 (33%) | 12 (38%) | 10 (30%) | 10 (31%) |
| Age | | | | |
| | 30.5 (7.4) | 30.7 (7.3) | 30.7 (9.0) | 30.1 (6.2) |
| Height | | | | |
| | 1.78 (0.1) | 1.78 (0.1) | 1.8 (0.5) | 1.8 (0.1) |
| Weight | | | | |
| | 79.6 (13) | 82.8 (18.2) | 77.7 (10.5) | 77 (6.7) |
| Total body surface (m ²) | | | | |
| | 1.89 (0.16) | 1.9 (0.2) | 1.88 (0.13) | 1.9 (0.12) |
| Number of tattoos (median (IQR)) | | | | |
| | 5 (2;9) | 6 (3;11) | 4 (2;7) | 5 (2;10) |

Figure S1: Single plots of total tattooed body surface (cm^2) for the three different test measurement units. Self-assessment measures are plotted against the corresponding size measured during validation. Due to the left-skewed distribution of tattoo size, values are plotted on logscale.

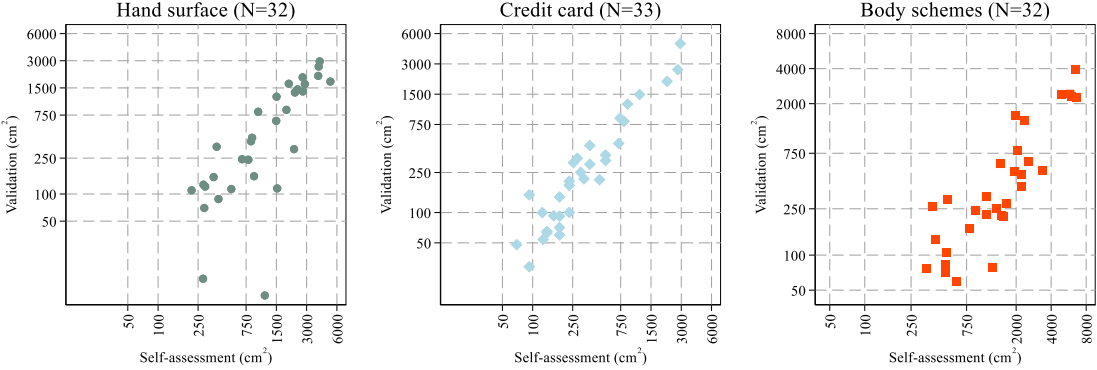


Figure S2: Scatterplot of self-assessed vs. validated surface of all black/greywash colours combined (cm^2) measured by three different test measurement units in the subpopulation with colored tattoos in the validation study. Due to the left-skewed distribution of tattoo size, values are plotted on logscale

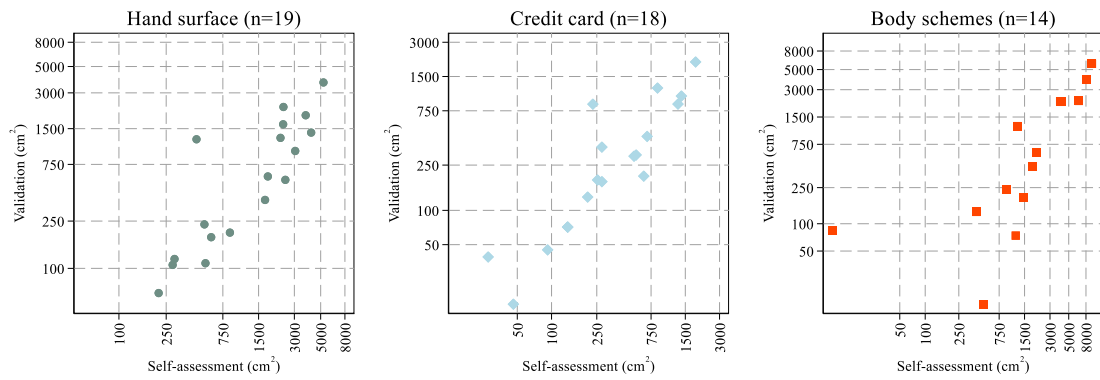


Figure S3: Bland-Altman plots (difference plots) of validation vs. self-assessment of the black/greywash surface per measurement unit in the subpopulation with colored tattoos. Measurement points lying outside the grey shaded area are outside the limits of agreement (± 1.96 SD)

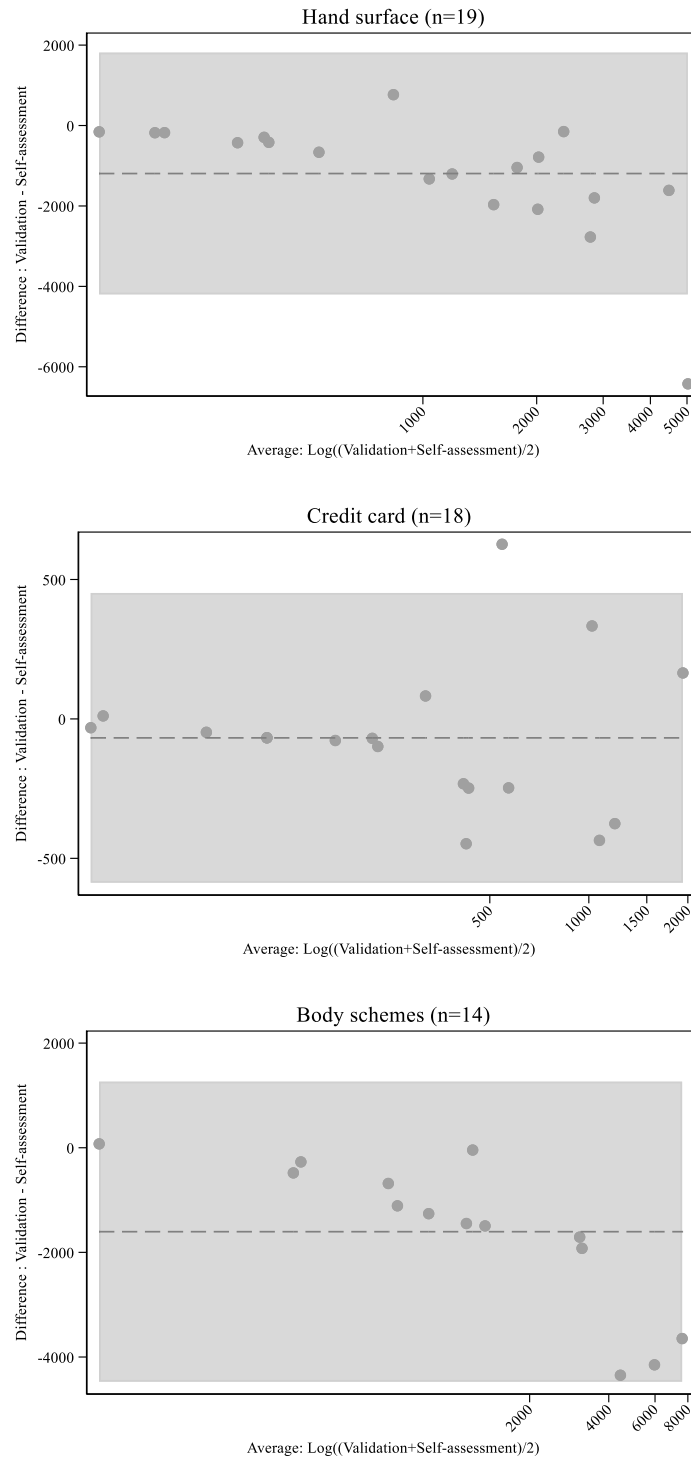


Figure S4: Scatterplot of self-assessed vs. validated surface of all colors (non-black/greywash) combined (cm^2) measured by three different test measurement units in the subpopulation with colored tattoos in the validation study. Due to the left-skewed distribution of tattoo size, values are plotted on logscale

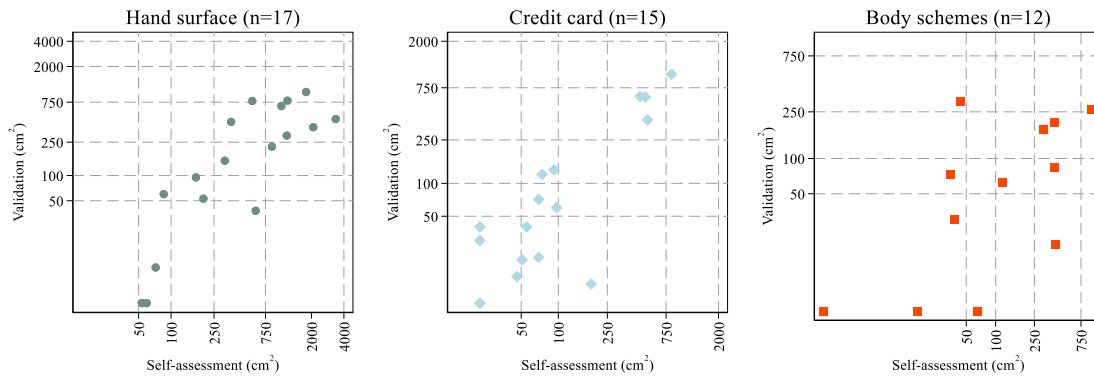


Figure S5: Bland-Altman plots (difference plots) of validation vs. self-assessment of the colored (non-black/greywash) surface per measurement unit in the subpopulation with colored tattoos. Measurement points lying outside the grey shaded area are outside the limits of agreement (± 1.96 SD)

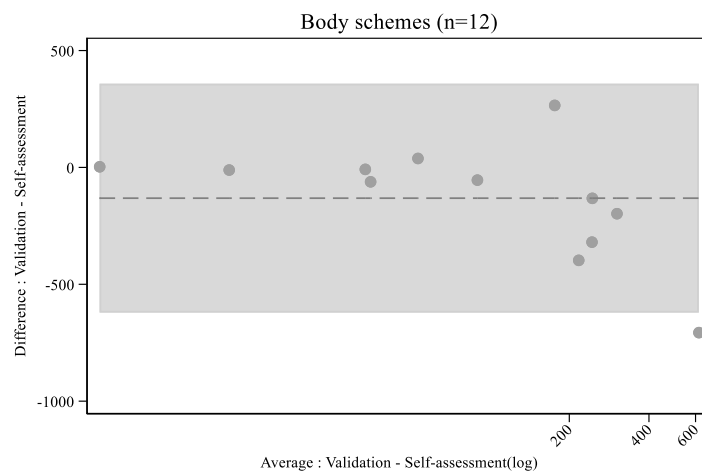
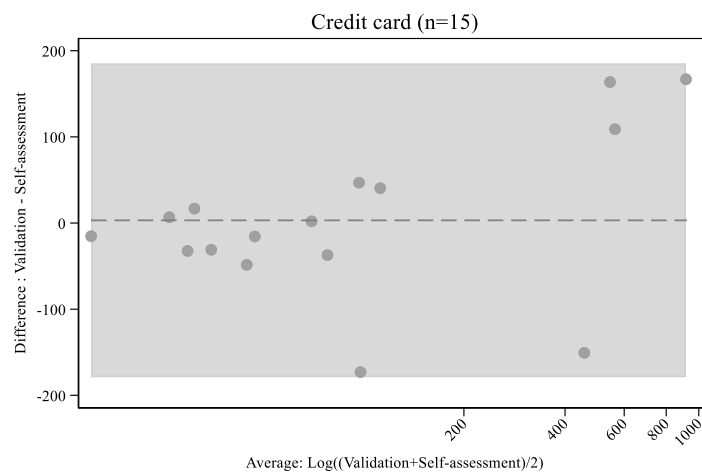
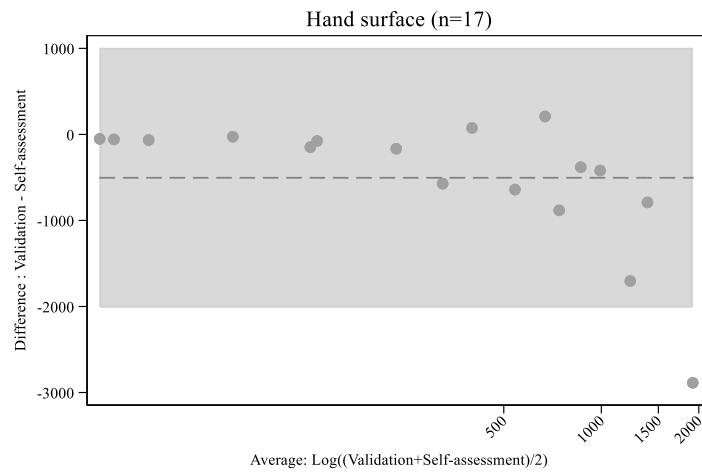


Figure S6: Scatterplots of assigned ranks of validated vs. self-assessed surface for all black/greywash colours combined for the different measurement units in the subpopulation with colored tattoos.

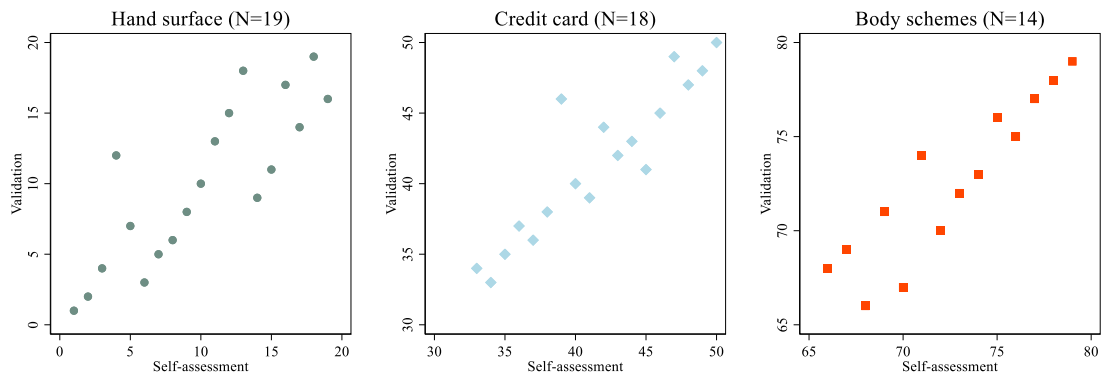


Figure S7: Scatterplots of assigned ranks of validated vs. self-assessed surface for all colors (non-black/greywash) combined for the different measurement units in the subpopulation with colored tattoos.

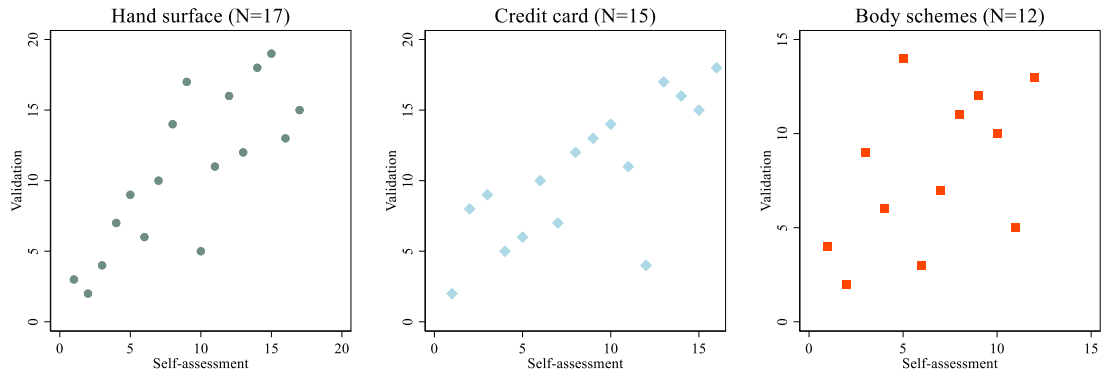


Figure S8. Scatterplot of self-assessed vs. validated coverage proportions via three different test measurement units in all participants in the validation study (n=97)

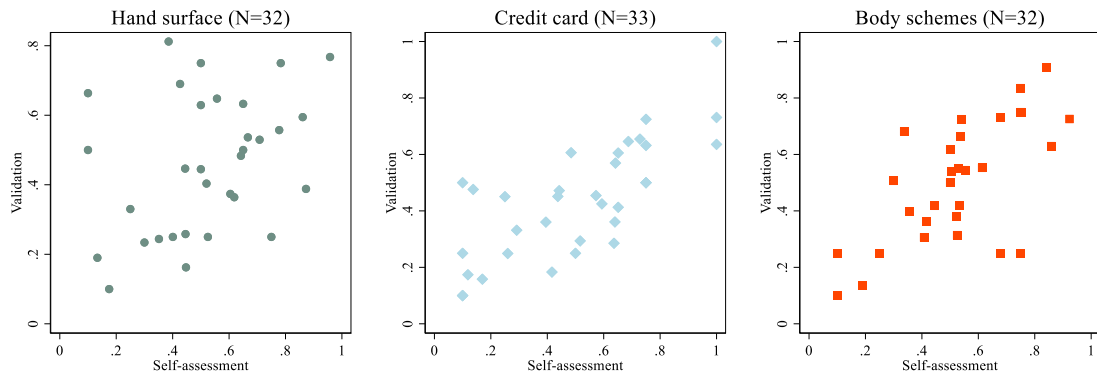


Figure S9. Bland-Altman plots (difference plots) of validation vs self-assessment of total tattoo coverage for three different measurement units in all participants in the validation study (n=97). Measurement points lying outside the grey shaded area are outside the limits of agreement (± 1.96 SD)

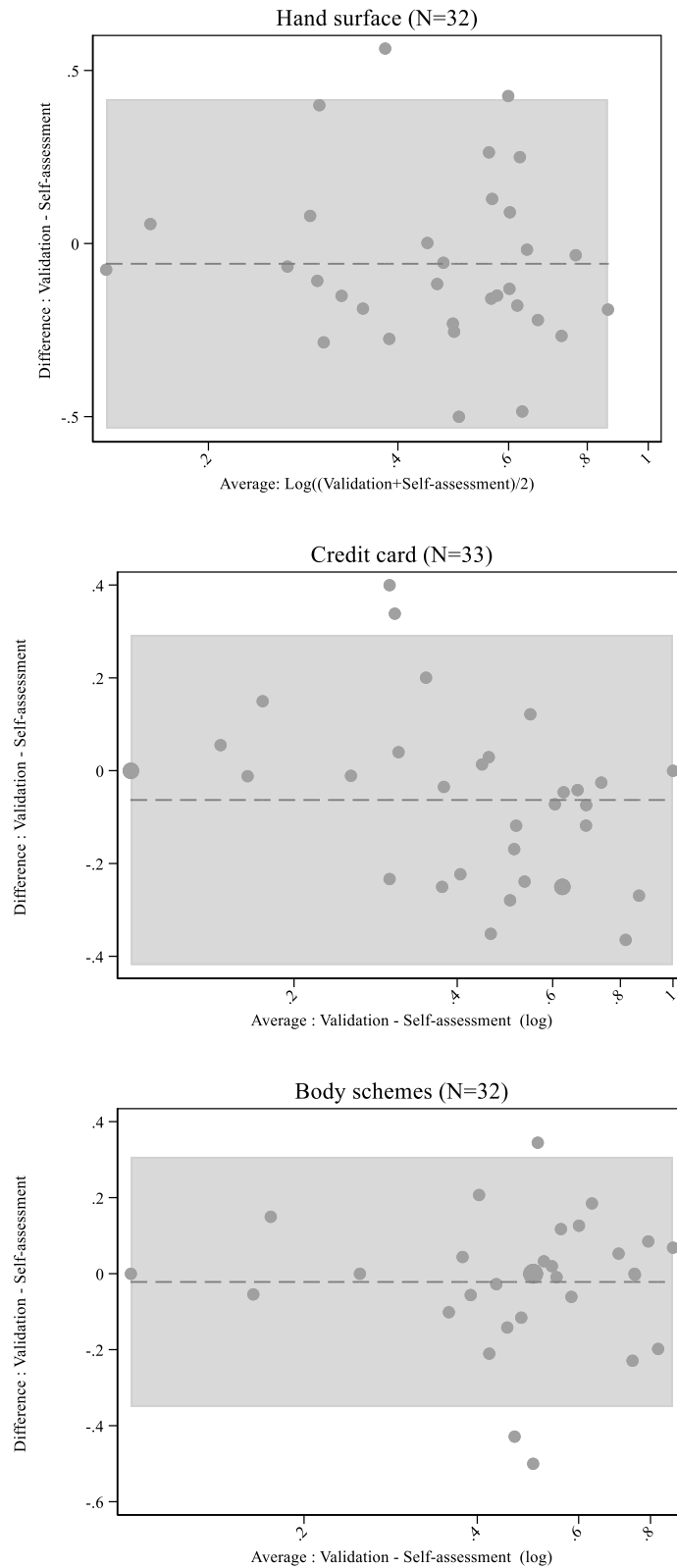


Figure S10: Scatterplots of assigned ranks of validated vs. self-assessed tattoo coverage for the different measurement units in all participants in the validation study (n=97).

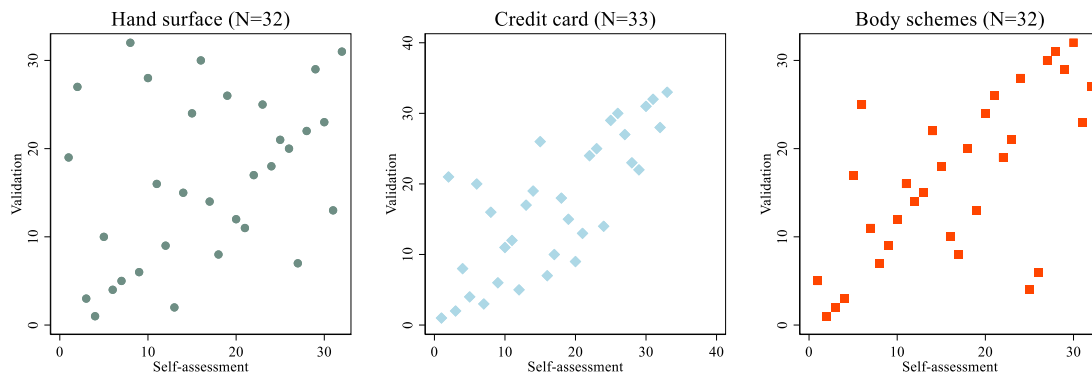


Figure S11: Scatterplots of assigned ranks of tattoo surface for 62 tattoos whose surface was measured during the validation study and digitally analysed via Fiji/ImageJ.

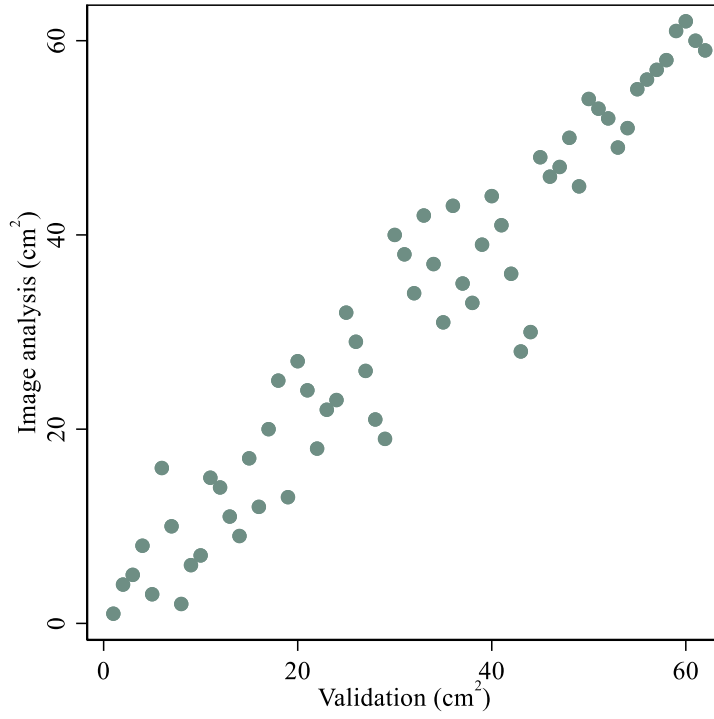


Figure S12 : Scatterplot of individual tattoo surface for black/greywash surfaces for 23 of 24 coloured tattoos (one did not use black/greywash ink) whose surface was measured during the validation study and digitally analysed via Fiji/ImageJ.

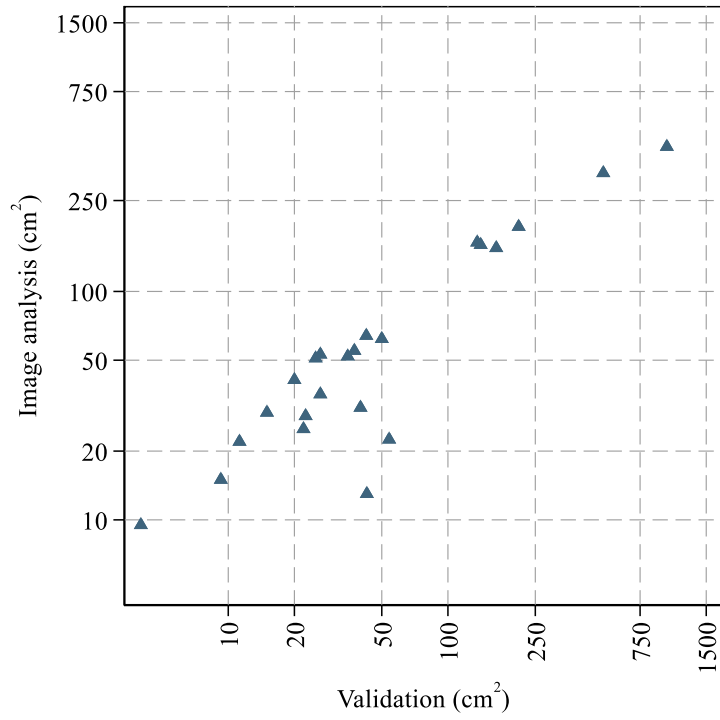


Figure S13: Scatterplot of individual tattoo surface for coloured (non-black/greywash) surfaces for 24 coloured tattoos surface was measured during the validation study and digitally analysed via Fiji/ImageJ.

