

Supplementary material

Table S1: Results (mean and standard deviation) of musculoskeletal discomfort (MD) in production and office workers (R = right side; L = left side)

Body region	Group	Mean	SD	n
Neck	Industry	10.42	20.59	49
	Office	4.53	7.46	15
ShoulderL	Industry	6.11	12.68	49
	Office	5.00	14.84	15
ShoulderR	Industry	3.14	7.93	49
	Office	3.50	9.91	15
Upper Back	Industry	8.51	18.71	49
	Office	4.70	14.87	15
Upper ArmR	Industry	1.51	3.83	49
	Office	0.00	0.00	15
Upper ArmL	Industry	0.71	3.01	49
	Office	0.00	0.00	15
Lower Back	Industry	13.92	24.36	49
	Office	12.73	25.28	15
ElbowR	Industry	3.53	15.21	49
	Office	0.00	0.00	15
ElbowL	Industry	2.21	12.83	49
	Office	0.00	0.00	15
Lower ArmL	Industry	0.99	3.68	49
	Office	0.00	0.00	15
Lower ArmR	Industry	0.85	3.50	49
	Office	0.00	0.00	15
WristR	Industry	1.53	4.99	49
	Office	2.47	7.56	15
WristL	Industry	0.58	2.25	49
	Office	2.47	7.56	15
HipR	Industry	0.79	3.14	49
	Office	7.37	17.22	15
HipL	Industry	0.12	0.51	49
	Office	0.90	1.97	15
Upper LegR	Industry	2.17	12.74	49
	Office	0.53	1.41	15
Upper LegL	Industry	2.08	12.75	49
	Office	0.00	0.00	15

KneeR	Industry	4.24	17.76	49
	Office	0.50	1.52	15
KneeL	Industry	2.20	12.74	49
	Office	1.00	2.61	15
Lower LegR	Industry	2.46	12.77	49
	Office	0.67	2.49	15
Lower LegL	Industry	2.59	12.85	49
	Office	0.00	0.00	15
FootR	Industry	7.28	17.54	49
	Office	5.43	15.40	15
FootL	Industry	6.92	17.46	49
	Office	6.37	15.47	15

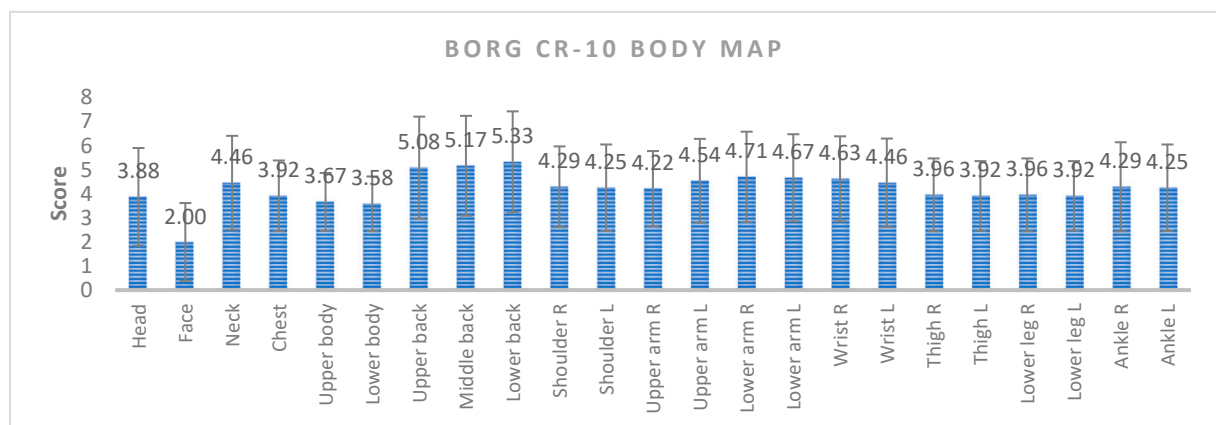


Figure S1: Mean and standard deviation of subjective physical exhaustion (Borg CR-10 body map) of 24 participants after MoCap.

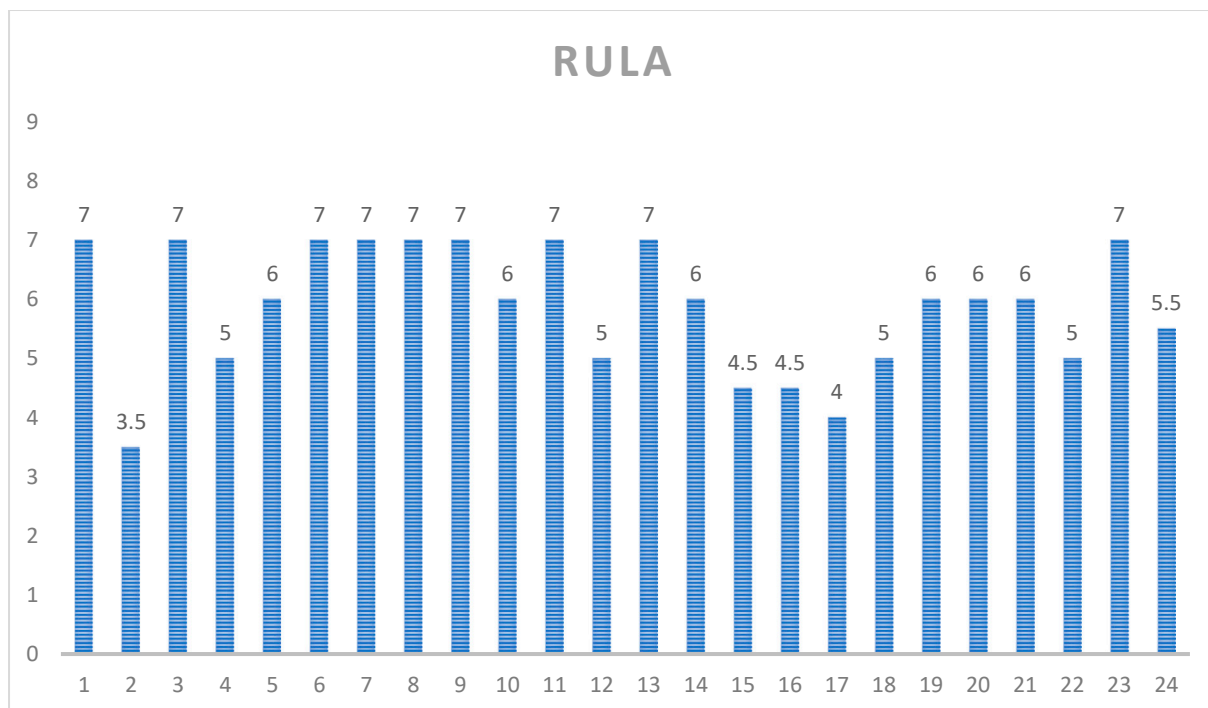


Figure S2: Absolute final RULA scores: participant numbers 1-18 = production workers; participant numbers 19-24 = office workers of sample including 30 minutes of MoCap. RULA-score interpretation: 1-2: “acceptable”; 3-4: “measures should be initiated in the near future”; 5-6: “measures should be initiated shortly”; 7: “measures should be initiated immediately”.

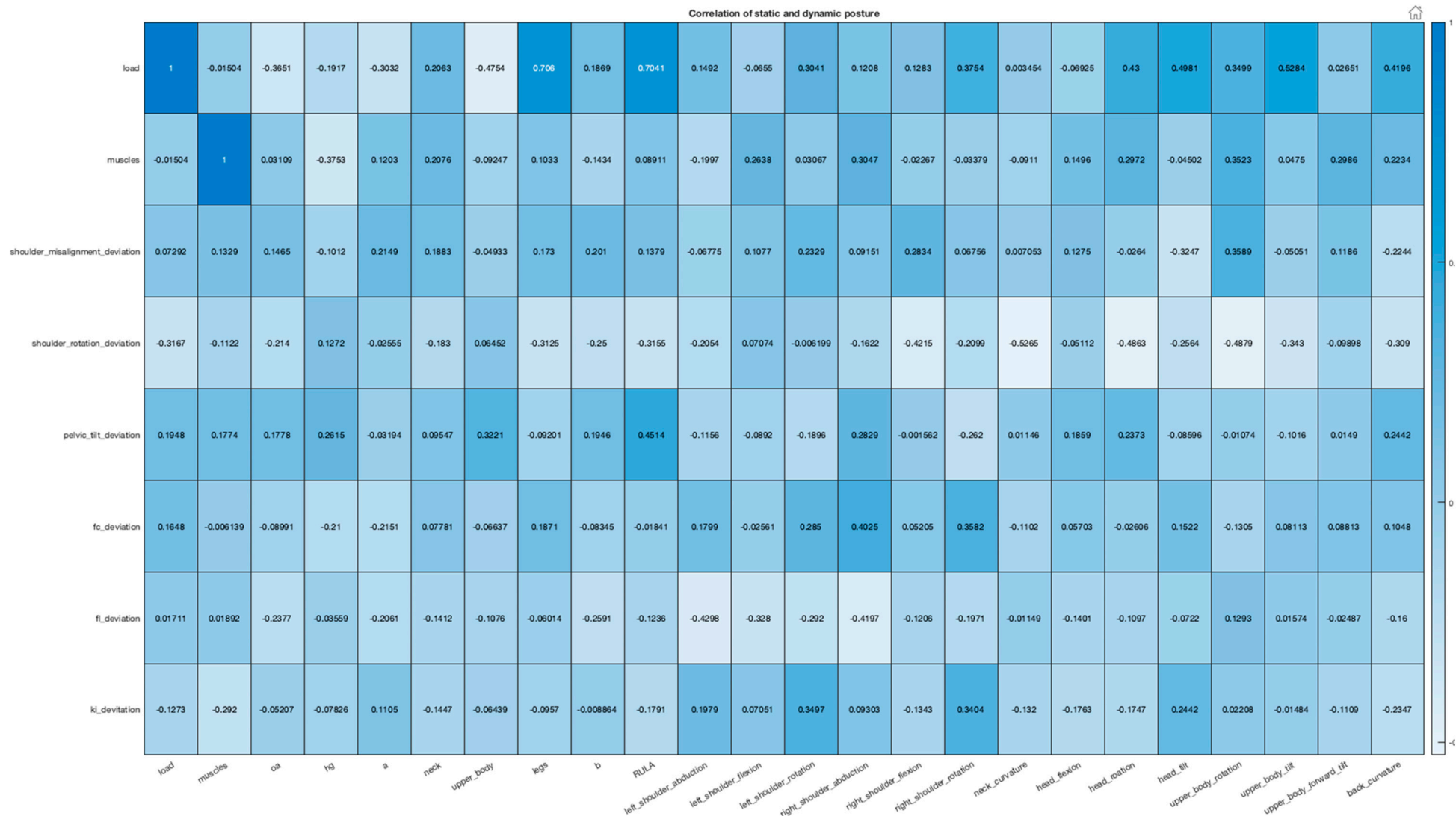


Figure S3: Pearson correlation coefficients (r) between static posture values (differences from reference values [17,19], Y-axis) and RULA scores (X-axis).

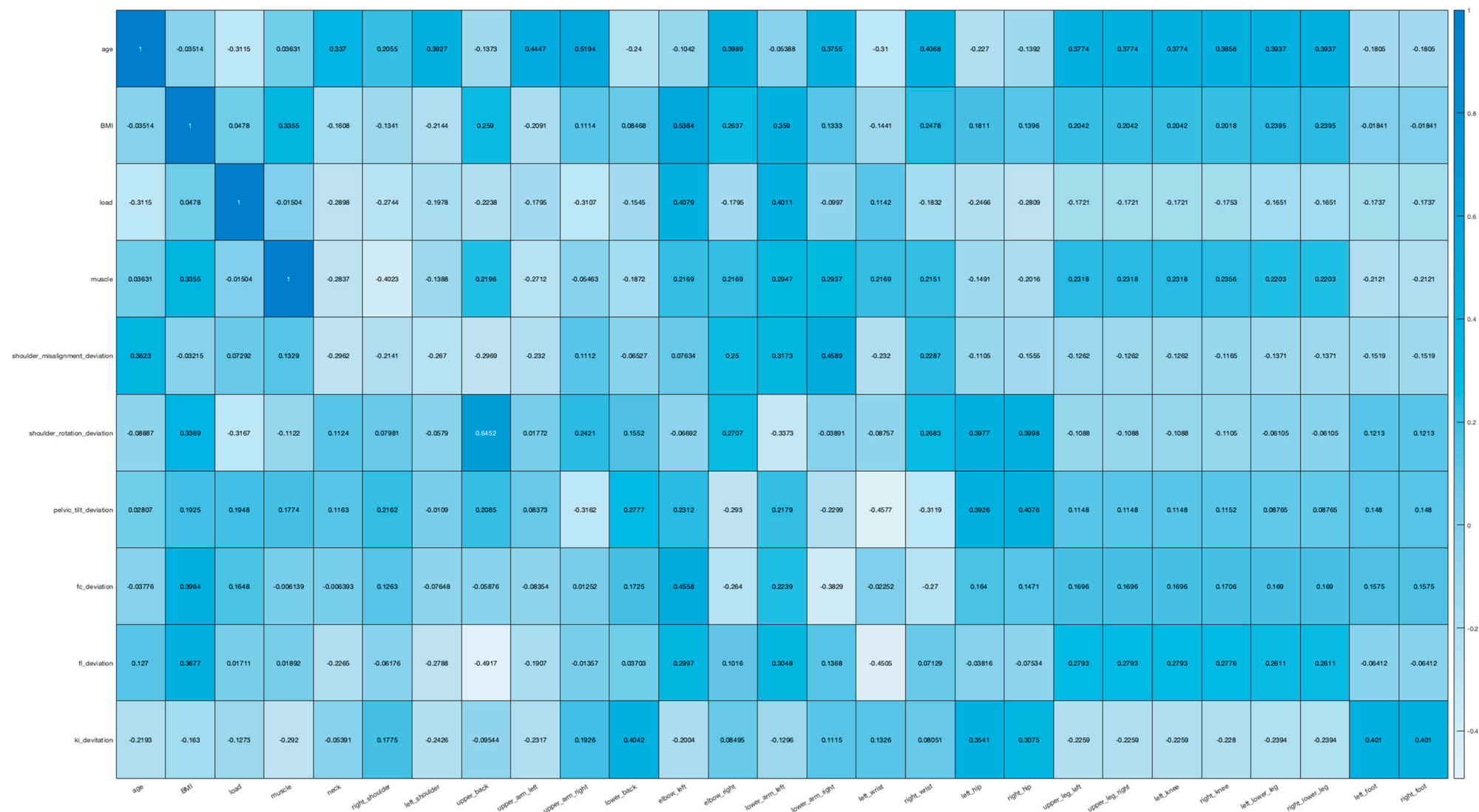


Figure S4: Correlation coefficients between static posture values (deviations from reference values [17,19]; ; Y-axis) and musculoskeletal discomfort (MD) (X-axis).



Figure S5: Correlation coefficients between musculoskeletal discomfort (MD) (Y-axis) and RULA (X-axis).