

Table S1. Mean scores between groups for the CPR quality parameters and knowledge, stress and anxiety questionnaires.

CPR Parameters/ STAI Scores	Study Moment	Udergraduate (BS)	<i>p</i> Value (Pre- /Post- test	Postgraduate (MS)	<i>p</i> Value (Pre- /Post- test	<i>p</i> Value
		Score Mean (SD)		Score Mean (SD)		
Knowledge questionnaire (%)	Success Rate (%)	70.83 (19.50)		82.24 (10.47)		0.026 ^{*,a}
	Correct answers	5.67 (1.56)		6.58(.84)		0.037 ^{*,b}
CPR global score (%)		68.24 (17.78)		80.74 (16.33)		0.027 ^{*,b}
Number of compressions		163.81 (15.98)		156.11 (17.88)		0.198 ^c
Compressions proper depth (%)		90.81 (23.09)		98.53 (3.86)		0.290 ^c
Compressions proper expansion (%)		77.52 (32)		74.05 (30.98)		0.430 ^c
Compressions rate adequate (%)		47.10 (38.73)		53.26 (38.57)		0.559 ^c
Mean Compressions rate 1 minute		122.48 (11.64)		110.84 (23.32)		0.002 ^{*,c}
Time spent without compressions interruption (seconds)		68.81 (3.61)		72.42 (4.51)		0.008 ^{*,a}
Ventilations global score (%)		31.43 (39.83)		55.42 (42.76)		0.085 ^c
Number of ventilations		3.38 (4.48)		5.63 (4.39)		0.209 ^c
Ventilations adequate volume (%)		43.86 (49.391)		59.74 (46.21)		0.324 ^c
Ventilations excessive volume (%)		3.76 (15.303)		8.74±20.83		0.295 ^c
Stress visual analogue scale score (VAS)	Pre-test	3.24 (1.97)	0.874 ^d	2.74 (1.82)	0.635 ^d	0.287 ^c
	Post-test	3.40 (2.26)		3.03 (2.59)		0.502 ^c
State-Trait anxiety inventory score (STAI)	Pre-test	24.24 (4.74)	0.752 ^d	22.68 (5.07)	0.084 ^d	0.323 ^a
	Post-test	23.90 (4.812)		24.95 (5.20)		0.514 ^a

* $p < 0.05$; ** $p < 0.01$; ^a t-Student independent samples; ^b Chi-Squared Pearson; ^c Mann–Whitney U; ^d t-Student paired samples.

Table S2. Bivariate correlations between STAI scores and temperature values of the selected regions of interest before and after simulation.

Facial Region	Point	Group	Statistic and <i>p</i> Value Title	STAI Pre-Test	STAI Post-Test
Nose	Average	Undergraduate (BS)	Correlation coefficient	-0.184	-0.262
			Significance	0.426	0.251
		Postgraduate (MS)	Correlation coefficient	0.379	-0.080
			Significance	0.109	0.744
Forehead	Maximum	Undergraduate (BS)	Correlation coefficient	0.627 **	0.537 *
			Significance	0.002	0.012
		Postgraduate (MS)	Correlation coefficient	0.499 *	-0.051
			Significance	0.030	0.835
	Average	Undergraduate (BNS)	Correlation coefficient	0.331	0.553 *
			Significance	0.143	0.009
		Postgraduate (MS)	Correlation coefficient	0.440	0.068
			Significance	0.060	0.782
Minimum	Undergraduate (BS)	Correlation coefficient	-0.157	0.305	
		Significance	0.495	0.179	
	Postgraduate (MS)	Correlation coefficient	0.086	0.141	
		Significance	0.727	0.566	
Periorbital	Maximum	Undergraduate (BS)	Correlation coefficient	0.324	0.323
			Significance	0.152	0.153
		Postgraduate (MS)	Correlation coefficient	0.473 *	0.092
			Significance	0.042	0.708
	Average	Undergraduate (BNS)	Correlation coefficient	0.145	0.391
			Significance	0.529	0.080
		Postgraduate (MS)	Correlation coefficient	0.509 *	-0.059
			Significance	0.026	0.812
Minimum	Undergraduate (BNS)	Correlation coefficient	-0.178	-0.132	
		Significance	0.440	0.568	
	Postgraduate (MS)	Correlation coefficient	0.332	-0.249	
		Significance	0.166	0.304	
Maxillary	Maximum	Undergraduate (BS)	Correlation coefficient	0.120	0.035
			Significance	0.604	0.880
		Postgraduate (MS)	Correlation coefficient	0.537 *	0.029

		Significance	0.018	0.906
	Average	Undergraduate (BS) Correlation coefficient	0.133	0.020
		Significance	0.566	0.932
		Postgraduate (MS) Correlation coefficient	0.534 *	0.049
		Significance	0.019	0.843
	Minimum	Undergraduate (BS) Correlation coefficient	0.013	-0.139
		Significance	0.957	0.546
		Postgraduate (MS) Correlation coefficient	0.388	0.057
		Significance	0.101	0.816
	Maximum	Undergraduate (BN) Correlation coefficient	0.381	0.332
		Significance	0.089	0.142
		Postgraduate (MS) Correlation coefficient	0.115	-0.135
		Significance	0.640	0.581
Neck / Upper chest	Average	Undergraduate (BS) Correlation coefficient	0.381	0.559 **
		Significance	0.089	0.008
		Postgraduate (MS) Correlation coefficient	0.142	0.120
		Significance	0.563	0.624
	Minimum	Undergraduate (BS) Correlation coefficient	0.104	-0.036
		Significance	0.652	0.877
		Postgraduate (MS) Correlation coefficient	0.230	0.269
		Significance	0.344	0.265

* $p < 0.05$; ** $p < 0.01$; Pearson correlation coefficients.

Table S3. Bivariate correlations between CPR quality parameters and temperature values of the selected regions of interest for the Undergraduate (BS) Group.

Temperature Difference	Statistic and <i>p</i> Value	CPR Global Score ^a	Number of Compressions ^b	Compressions Proper Depth ^b	Compressions Proper Expansion ^b	Compressions Rate Adequate ^b	Mean Compressions Rate ^b	Time without Interruption ^a	Ventilations Global Score ^b	Number of Ventilations ^b	Ventilations Adequate Volume ^b	Ventilations Excessive Volume ^b
Nose	Correlation coefficient	0.292	0.280	0.223	-0.396	-0.207	0.307	-0.054	0.121	0.188	0.056	0.285
	Significance	0.199	0.218	0.332	0.075	0.367	0.175	0.816	0.602	0.416	0.811	0.211
Forehead maximum	Correlation coefficient	0.377	-0.373	0.027	0.239	0.295	-0.264	-0.199	0.198	0.242	0.355	-0.057
	Significance	0.092	0.096	0.908	0.296	0.193	0.247	0.388	0.390	0.291	0.115	0.805
Forehead average	Correlation coefficient	0.379	-0.406	0.083	0.238	0.327	-0.310	-0.111	0.081	0.115	0.311	-0.204
	Significance	0.090	0.068	0.721	0.299	0.148	0.171	0.633	0.728	0.619	0.170	0.375
Forehead minimum	Correlation coefficient	0.108	-0.322	-0.111	-0.073	0.445 *	-0.395	-0.170	0.175	0.247	0.159	0.329
	Significance	0.643	0.155	0.632	0.752	0.043	0.076	0.463	0.447	0.280	0.492	0.146
Periorbital maximum	Correlation coefficient	0.272	-0.514 *	-0.238	0.215	0.331	-0.407	-0.304	0.344	0.377	0.379	0.166
	Significance	0.232	0.017	0.298	0.350	0.153	0.067	0.181	0.127	0.092	0.090	0.472
Periorbital average	Correlation coefficient	0.268	-0.360	0.178	0.009	0.332	-0.324	-0.160	0.124	0.179	0.216	0.060
	Significance	0.241	0.109	0.440	0.971	0.141	0.152	0.489	0.591	0.437	0.348	0.796
Periorbital minimum	Correlation coefficient	0.420	0.015	0.097	-0.014	0.024	-0.063	0.062	0.201	0.274	0.263	0.222
	Significance	0.058	0.948	0.675	0.950	0.917	0.787	0.788	0.383	0.229	0.249	0.334
Maxillary maximum	Correlation coefficient	0.406	-0.237	0.021	0.112	0.316	-0.234	0.027	0.138	0.201	0.222	0.128
	Significance	0.067	0.300	0.928	0.630	0.164	0.307	0.909	0.552	0.382	0.333	0.581
Maxillary average	Correlation coefficient	0.393	-0.059	0.124	-0.013	0.145	-0.065	-0.018	0.066	0.117	0.155	0.042
	Significance	0.078	0.801	0.592	0.955	0.531	0.778	0.939	0.776	0.613	0.503	0.856
Maxillary minimum	Correlation coefficient	0.351	0.435 *	0.263	-0.328	-0.277	0.300	0.215	0.069	0.128	0.033	0.279
	Significance	0.119	0.049	0.249	0.146	0.223	0.186	0.350	0.767	0.580	0.886	0.220
Neck maximum	Correlation coefficient	0.432	-0.313	-0.004	0.182	0.342	-0.221	-0.399	-0.012	0.017	0.044	-0.111
	Significance	0.050	0.167	0.988	0.429	0.130	0.336	0.073	0.959	0.943	0.850	0.632
Neck average	Correlation coefficient	0.401	-0.212	0.170	0.124	0.354	-0.228	-0.227	0.164	0.234	0.179	0.101
	Significance	0.072	0.356	0.461	0.592	0.115	0.321	0.322	0.477	0.308	0.437	0.664
Neck minimum	Correlation coefficient	0.091	0.012	0.111	-0.287	0.147	-0.146	0.025	0.196	0.193	0.059	0.199

Significance 0.694 0.959 0.633 0.207 0.524 0.529 0.915 0.395 0.401 0.799 0.388

^a Pearson's R correlation coefficient; ^b Spearman's Rho correlation coefficient; * $p < 0.05$

Table S4. Bivariate correlations between CPR quality parameters and temperature values of the selected regions of interest for the Postgraduate (MS) Group.

Temperature Difference	Statistic and p Value	CPR Global Score ^a	Number of Compressions ^b	Compressions Proper Depth ^b	Compressions Proper Expansion ^b	Compressions Rate Adequate ^b	Mean Compressions Rate ^b	Time without Compressions ^a	Ventilations Global Score ^b	Number of Ventilations ^b	Ventilations Adequate Volume ^b	Ventilations Excessive Volume ^b
Nose	Correlation coefficient	0.203	-0.524 *	0.469 *	-0.027	-0.088	-0.278	-0.075	0.294	0.126	-0.029	0.247
	Significance	0.405	0.021	0.043	0.913	0.720	0.249	0.761	0.222	0.606	0.907	0.309
Forehead maximum	Correlation coefficient	0.105	-0.341	0.233	-0.067	-0.210	-0.331	0.125	0.257	-0.021	0.052	-0.136
	Significance	0.668	0.153	0.336	0.786	0.388	0.167	0.609	0.289	0.933	0.833	0.578
Forehead average	Correlation coefficient	0.145	-0.310	0.094	0.037	-0.041	-0.180	0.011	0.446	0.122	0.096	-0.129
	Significance	0.553	0.196	0.703	0.880	0.866	0.460	0.965	0.055	0.618	0.697	0.597
Forehead minimum	Correlation coefficient	-0.083	0.0069	0.292	0.394	-0.384	-0.109	0.183	-0.050	-0.072	-0.089	-0.327
	Significance	0.736	0.780	0.225	0.095	0.104	0.657	0.454	0.839	0.770	0.718	0.172
Periorbital maximum	Correlation coefficient	0.019	-0.248	0.219	-0.052	-0.132	-0.299	0.279	0.204	0.068	-0.055	0.005
	Significance	0.939	0.305	0.367	0.831	0.591	0.213	0.248	0.402	0.784	0.824	0.984
Periorbital average	Correlation coefficient	0.159	-0.291	0.252	0.052	-0.022	-0.233	0.085	0.431	0.248	0.088	0.156
	Significance	0.516	0.226	0.298	0.834	0.930	0.338	0.730	0.065	0.305	0.719	0.522
Periorbital minimum	Correlation coefficient	0.132	-0.182	0.129	-0.329	0.100	0.126	-0.284	0.301	0.188	0.010	0.274
	Significance	0.589	0.455	0.599	0.170	0.682	0.608	0.238	0.210	0.442	0.966	0.257
Maxillary maximum	Correlation coefficient	0.031	-0.282	-0.078	0.050	0.179	-0.270	0.103	0.325	0.131	0.069	0.010
	Significance	0.898	0.241	0.752	0.839	0.463	0.264	0.675	0.174	0.594	0.780	0.968
Maxillary average	Correlation coefficient	0.025	-0.367	0.162	-0.100	0.026	-0.281	0.052	0.178	0.033	0.003	0.036
	Significance	0.918	0.123	0.507	0.683	0.917	0.243	0.833	0.467	0.892	0.991	0.885
Maxillary minimum	Correlation coefficient	-0.001	-0.677 **	0.111	-0.179	0.038	-0.423	-0.173	-0.052	-0.145	-0.232	0.277
	Significance	0.997	0.001	0.650	0.464	0.878	0.071	0.480	0.833	0.553	0.340	0.251
Neck maximum	Correlation coefficient	-0.009	0.137	0.101	-0.248	-0.242	0.054	0.217	-0.027	0.307	-0.118	0.400
	Significance	0.972	0.577	0.680	0.305	0.319	0.826	0.371	0.912	0.201	0.631	0.090
Neck average	Correlation coefficient	0.065	-0.146	0.186	-0.180	-0.244	-0.075	0.048	0.062	0.261	-0.075	0.423
	Significance	0.793	0.551	0.445	0.460	0.314	0.761	0.845	0.800	0.281	0.759	0.071

Neck minimum	Correlation coefficient	-0.322	0.324	-0.052	-0.399	0.022	-0.537 *	-0.183	-0.265	-0.343	-0.042	-0.453
	Significance	0.178	0.176	0.832	0.090	0.929	0.018	0.452	0.273	0.150	0.863	0.052

^a Pearson's R correlation coefficient; ^b Spearman's Rho correlation coefficient; * $p < 0.05$; ** $p < 0.01$.