

Supplementary materials for “The interaction between pain and attractiveness perception in others”

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S. Table 1. Subjective ratings to different categories of facial stimuli (Mean \pm SD)

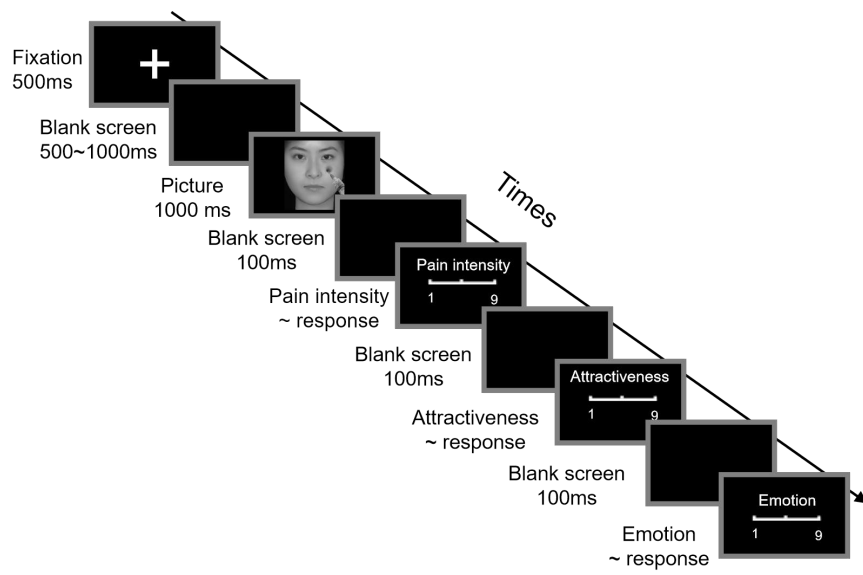
	More attractive		Less attractive	
	Painful	Non-painful	Painful	Non-painful
Pain intensity	6.83 \pm 0.20	6.77 \pm 0.24	1.41 \pm 0.13	1.50 \pm 0.15
Attractiveness	6.05 \pm 0.47	3.60 \pm 0.29	6.14 \pm 0.42	3.67 \pm 0.50
Emotional valence	3.41 \pm 0.16	3.17 \pm 0.16	4.17 \pm 0.23	3.39 \pm 0.24
Arousal	2.95 \pm 0.23	2.50 \pm 0.17	3.10 \pm 0.22	2.45 \pm 0.18
Emotional appearance	4.78 \pm 0.52	5.03 \pm 0.25	4.67 \pm 0.53	4.96 \pm 0.21

Notes: Statistics were obtained using Paired-Samples T test of Emotional appearance with “attractive” (More attractive vs. Less attractive) for non-painful pictures. No significant difference was observed between the more attractive (5.03 \pm 0.25) and less attractive (4.96 \pm 0.21) non-painful pictures ($t(29)=2.015, p =0.053$).

S. **Table 2.** Summary of statistical analysis of the factor for “order”

	Pain Judgment Task Order	More attractive non-painful			More attractive painful			Less attractive non-painful			Less attractive painful		
		Mean±SD	t	p	Mean±SD	t	p	Mean±SD	t	p	Mean±SD	t	p
Behavioral data													
Pain intensity ratings	First	1.83±1.15	-0.6	0.4	5.42±1.42	-0.6	0.54	1.98±1.17	-0.	0.6	5.67±1.24	0.1	0.9
	Second	2.11±1.28	9	96	5.71±1.38	2	0	2.16±1.27	42	77	5.62±1.46	0	23
Attractiveness ratings	First	4.51±0.93	-1.3	0.1	5.51±1.00	-0.7	0.48	5.17±0.73	-0.	0.3	5.87±0.81	-0.	0.8
	Second	4.86±0.51	6	82	5.71±0.71	1	5	5.35±0.42	86	94	5.92±0.66	19	48
Emotional reactions	First	6.14±0.87	0.4	0.6	5.75±0.89	0.53	0.60	3.81±0.91	-0.	0.7	3.60±0.73	0.0	0.9
	Second	6.00±1.10	0	89	5.55±1.32	0	0	3.92±1.18	34	38	3.59±0.95	6	55
RTs (ms)	First	760.74±32			777.90±27			757.37±28			757.02±283		
		2.60	-0.6	0.4	8.07	-0.6	0.54	9.80	-0.	0.5	.51	-0.	0.3
ACCs	First	835.43±32	9	98	838.78±30	1	3	821.71±31	63	31	854.86±327	95	51
	Second	1.53			8.40			1.18			.20		
ACCs	First	0.91±0.16	0.7	0.4	0.88±0.22	-0.0	0.99	0.91±0.17	0.1	0.8	0.89±0.20	0.6	0.5
	Second	0.87±0.21	7	46	0.88±0.20	1	6	0.90±0.15	7	70	0.84±0.25	2	39
ERP data													
N1	First	-2.39±2.90	1.7	0.0	-3.09±3.31	1.05	0.30	-2.99±3.04	1.3	0.1	-2.94±2.95	1.4	0.1
	Second	-4.52±4.32	2	94	-4.48±4.40	0	0	-4.67±4.15	7	79	-4.87±4.67	7	51
N170	First	0.99±3.33	-0.3	0.7	0.76±3.45	-0.4	0.67	1.06±3.56	-0.	0.9	0.76±3.74	-0.	0.5
	Second	1.43±4.43	4	38	1.31±4.15	3	2	1.19±4.14	10	18	1.56±4.31	59	61
P2	First	5.29±3.26	-0.2	0.8	4.80±3.21	-0.7	0.47	5.13±3.24	-0.	0.7	5.08±3.25	-0.	0.4
	Second	5.59±3.69	5	03	5.60±3.38	2	6	5.47±3.48	30	64	5.99±3.32	82	18
N2	First	-2.17±5.00	-0.2	0.7	-3.25±4.62	-0.7	0.48	-2.94±4.69	-0.	0.4	-3.30±4.28	-0.	0.4
	Second	-1.65±5.62	9	73	-2.02±5.79	0	9	-1.53±5.47	82	19	-1.82±6.07	84	09
P3	First	7.31±4.05	0.0	0.9	6.51±4.59	-0.6	0.52	6.51±4.28	-0.	0.8	6.90±4.13	-0.	0.5
	Second	7.22±3.06	76	40	7.39±3.46	4	5	6.72±3.21	17	68	7.67±3.42	60	54
LPC	First	7.16±4.02	-0.4	0.6	6.84±4.85	-0.5	0.56	6.52±4.14	-0.	0.8	7.04±4.36	-0.	0.8
	Second	7.66±3.09	2	79	7.65±3.22	8	7	6.71±2.79	16	73	7.24±2.63	16	76

Notes: Statistics were obtained using Independent-Samples T test with the between-participant variable of “order” (Pain Judgment Task first vs. Pain Judgment second). None significant comparisons were found in all dependent variables (all $p > 0.05$). $N_{\text{Pain Judgment Task first}} = 18$, $N_{\text{Pain Judgment Task second}} = 17$, $df:(33)$



S. Figure 1. Flowchart describing the experimental design of measurement of subjective reports