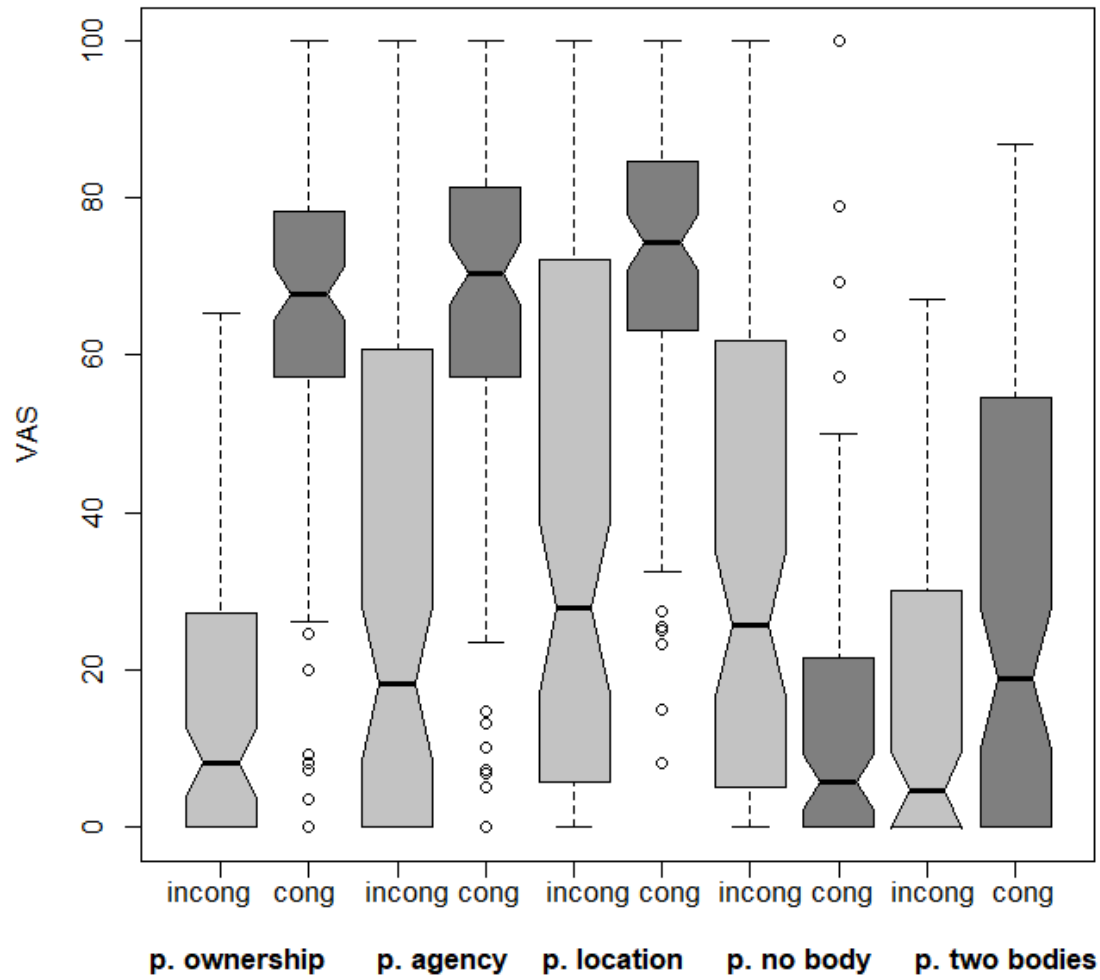


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**Supplemental information**

**Gut markers of bodily self-consciousness in men**

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**Figure S1.** Boxplots of the bodily self-consciousness visual analogue scales. 'Incong': incongruent. 'Cong': congruent. Related to STAR Methods.

	<i>Sum Sq</i>	<i>Mean Sq</i>	<i>NumDF</i>	<i>DenDF</i>	<i>F</i>	<i>p</i>
condition	30123	30123	1	26.58	69.4735	< 0.001 ***
item	138897	34724	4	682.05	80.0860	< 0.001 ***
region	2500	1250	2	689.12	2.8825	0.0566674
ph	12	12	1	720.92	0.0271	0.8693748
pressure	176	176	1	732.28	0.4055	0.5244588
temperature	233	233	1	178.07	0.5365	0.4648315
condition:item	104086	26022	4	682.05	60.0145	< 0.001 ***
condition:region	440	220	2	689.35	0.5079	0.6019753
item:region	1609	201	8	682.05	0.4639	0.8816696
condition:ph	323	323	1	344.98	0.7456	0.3884859
condition:pressure	232	232	1	466.03	0.5358	0.4645279
condition:temperature	42	42	1	43.75	0.0976	0.7562384
item:ph	4925	1231	4	682.05	2.8396	0.0235759 *
item:pressure	5289	1322	4	682.05	3.0497	0.0165619 *
item:temperature	5241	1310	4	682.05	3.0218	0.0173608 *
region:ph	1123	562	2	729.83	1.2954	0.2744179
region:pressure	514	257	2	717.05	0.5926	0.5531316
region:temperature	1651	826	2	701.67	1.9041	0.1497268
condition:item:region	780	98	8	682.05	0.2250	0.9864123
condition:item:ph	336	84	4	682.05	0.1936	0.9417517
condition:item:pressure	1726	431	4	682.05	0.9951	0.4094523
condition:item:temperature	755	189	4	682.05	0.4353	0.7831263
condition:region:ph	150	75	2	483.89	0.1732	0.8410048
condition:region:pressure	1396	698	2	473.00	1.6100	0.2009734
condition:region:temperature	344	172	2	701.36	0.3964	0.6728689
item:region:ph	11957	1495	8	682.05	3.4472	< 0.001 ***
item:region:pressure	2255	282	8	682.05	0.6502	0.7354894
item:region:temperature	2145	268	8	682.05	0.6185	0.7627258
condition:item:region:ph	8404	1050	8	682.05	2.4228	0.0138468 *
condition:item:region:pressure	1673	209	8	682.05	0.4822	0.8692024
condition:item:region:temperature	3431	429	8	682.05	0.9892	0.4430677

**Table S1.** Model 1 type II analysis of variance table with Satterthwaite's method. Blue rows show interactions that were further analysed through post-hoc tests. Significance codes: '\*\*\*' < 0.001 '\*\*' < 0.01 '\*' < 0.05. Related to Figures 4 and 5.

<i>item</i>	<i>T.trend</i>	<i>SE</i>	<i>df</i>	<i>t</i>	<i>p</i>
<i>ownership</i>	-2.26	5.94	366	-0.381	0.7036
<i>agency</i>	3.89	5.94	366	0.654	0.5132
<i>location</i>	-7.72	5.94	366	-1.300	0.1944
<i>no body</i>	-13.49	5.94	366	-2.272	0.0237*
<i>two bodies</i>	2.72	5.94	366	0.459	0.6468

**Table S2.** Model 1 post-hoc analysis of the interaction between item and temperature (*T.trend*). Degrees-of-freedom (*df*) method: Kenward-Roger. Related to Figure 4.

<i>item</i>	<i>P.trend</i>	<i>SE</i>	<i>df</i>	<i>t</i>	<i>p</i>
<i>ownership</i>	0.0829	2.25	710	0.037	0.9707
<i>agency</i>	2.5662	2.25	710	1.139	0.2552
<i>location</i>	5.6242	2.25	710	2.496	0.0128*
<i>no body</i>	-0.4251	2.25	710	-0.189	0.8504
<i>two bodies</i>	0.3640	2.25	710	0.161	0.8718

**Table S3.** Model 1 post-hoc analysis of the interaction between item and pressure (*P.trend*). Degrees-of-freedom (*df*) method: Kenward-Roger. Symbols and abbreviations as in Table S2. Related to Figure 4.

<i>condition</i>	<i>item</i>	<i>region</i>	<i>ph.trend</i>	<i>SE</i>	<i>df</i>	<i>t</i>	<i>p</i>
<i>incongruent</i>	<i>ownership</i>	<i>stomach</i>	-0.899	6.32	705	-0.142	0.8869
<i>congruent</i>	<i>ownership</i>	<i>stomach</i>	2.098	5.36	707	0.391	0.6959
<i>incongruent</i>	<i>agency</i>	<i>stomach</i>	-10.605	6.32	705	-1.678	0.0937
<i>congruent</i>	<i>agency</i>	<i>stomach</i>	-1.189	5.36	707	-0.222	0.8246
<i>incongruent</i>	<i>location</i>	<i>stomach</i>	21.017	6.32	705	3.326	< 0.001***
<i>congruent</i>	<i>location</i>	<i>stomach</i>	4.700	5.36	707	0.876	0.3813
<i>incongruent</i>	<i>nobody</i>	<i>stomach</i>	-13.201	6.32	705	-2.089	0.0370*
<i>congruent</i>	<i>nobody</i>	<i>stomach</i>	-11.393	5.36	707	-2.124	0.0340*
<i>incongruent</i>	<i>two bodies</i>	<i>stomach</i>	-6.113	6.32	705	-0.967	0.3337
<i>congruent</i>	<i>two bodies</i>	<i>stomach</i>	-0.259	5.36	707	-0.048	0.9615
<i>incongruent</i>	<i>ownership</i>	<i>small bowel</i>	16.027	9.52	705	1.684	0.0926
<i>congruent</i>	<i>ownership</i>	<i>small bowel</i>	8.706	9.41	707	0.925	0.3554
<i>incongruent</i>	<i>agency</i>	<i>small bowel</i>	24.215	9.52	705	2.545	0.0111*
<i>congruent</i>	<i>agency</i>	<i>small bowel</i>	12.209	9.41	707	1.297	0.1950
<i>incongruent</i>	<i>location</i>	<i>small bowel</i>	-8.017	9.52	705	-0.842	0.3998
<i>congruent</i>	<i>location</i>	<i>small bowel</i>	-0.110	9.41	707	-0.012	0.9907
<i>incongruent</i>	<i>nobody</i>	<i>small bowel</i>	-24.996	9.52	705	-2.627	0.0088**
<i>congruent</i>	<i>nobody</i>	<i>small bowel</i>	3.646	9.41	707	0.387	0.6987
<i>incongruent</i>	<i>two bodies</i>	<i>small bowel</i>	10.315	9.52	705	1.084	0.2787
<i>congruent</i>	<i>two bodies</i>	<i>small bowel</i>	6.815	9.41	707	0.724	0.4693
<i>incongruent</i>	<i>ownership</i>	<i>large bowel</i>	1.102	6.56	707	0.168	0.8666
<i>congruent</i>	<i>ownership</i>	<i>large bowel</i>	9.325	6.44	708	1.448	0.1480
<i>incongruent</i>	<i>agency</i>	<i>large bowel</i>	1.368	6.56	707	0.209	0.8348
<i>congruent</i>	<i>agency</i>	<i>large bowel</i>	7.540	6.44	708	1.171	0.2420
<i>incongruent</i>	<i>location</i>	<i>large bowel</i>	-15.444	6.56	707	-2.355	0.0188*
<i>congruent</i>	<i>location</i>	<i>large bowel</i>	5.818	6.44	708	0.904	0.3665
<i>incongruent</i>	<i>nobody</i>	<i>large bowel</i>	4.836	6.56	707	0.737	0.4611
<i>congruent</i>	<i>nobody</i>	<i>large bowel</i>	-0.322	6.44	708	-0.050	0.9602
<i>incongruent</i>	<i>two bodies</i>	<i>large bowel</i>	-1.075	6.56	707	-0.164	0.8698
<i>congruent</i>	<i>two bodies</i>	<i>large bowel</i>	-10.558	6.44	708	-1.640	0.1015

**Table S4.** Model 1 post-hoc analysis of the interaction between condition, item, region, and pH (*ph.trend*). Symbols and abbreviations as in Table S2. Degrees-of-freedom (*df*) method: Kenward-Roger. Related to Figures 4 and 5.

	<i>Sum Sq</i>	<i>Mean Sq</i>	<i>NumDF</i>	<i>DenDF</i>	<i>F</i>	<i>p</i>
condition	33017	33017	1	228.72	67.7224	< 0.001 ***
item	33277	8319	4	213.57	17.0637	< 0.001 ***
EGG peak	1303	1303	1	172.15	2.6719	0.10396
condition:item	30907	7727	4	213.57	15.8484	< 0.001 ***
condition:EGG peak	2246	2246	1	182.29	4.6064	0.03317 *
item:EGG peak	1270	318	4	213.57	0.6515	0.62645
condition:item:EGG peak	880	220	4	213.57	0.4512	0.77142

**Table S5.** Model 2 type II analysis of variance table with Satterthwaite's method. The blue row shows the interaction that was further analyzed through post-hoc tests. Significance codes as in table S1. Related to Figure 5.

<i>condition</i>	<i>EGG.trend</i>	<i>SE</i>	<i>df</i>	<i>t</i>	<i>p</i>
<i>incongruent</i>	-293	463	190	-0.634	0.5268
<i>congruent</i>	972	384	161	2.534	0.0122*

**Table S6.** Model 2 post-hoc analysis of the interaction between condition and EGG peak frequency (*EGG.trend*). Symbols and abbreviations as in Table S2. Degrees-of-freedom (*df*) method: Kenward-Roger. Related to Figure 5.

	<i>interoception scores</i>		
	<i>sensibility</i>	<i>accuracy</i>	<i>awareness</i>
<i>N</i>	27	31	31
<i>mean</i>	2.534	0.669	50.124
<i>SD</i>	0.945	0.202	23.869
<i>min</i>	0.800	0.140	0
<i>max</i>	4.390	0.963	90.909

**Table S7.** Descriptive statistics of interoceptive sensibility (scale: 0-5), accuracy (scale: 0-1), and awareness (scale: 0-100). Related to STAR Methods.