

How feelings of unpleasantness develop during the progression of motion sickness symptoms

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Supplementary Information

Experimental details

Table S1 Details of the seven experiments which data was (re-)analyzed in this paper

Exp	Reference	Motion stimulus	n	# sessions	Duration (minutes)
1	Nooij, Pretto, Oberfeld, et al., 2017	Visual yaw rotation	18	4	20
2	Nooij, Pretto, & Bühlhoff, 2017	Visual yaw rotation	21	2	20
3	Nooij et al., 2021	Visual yaw rotation	19	1	20
4	Bos et al., 2005	Physical simulated ship motion	24	3	30
5	Bos, 2015	Physical off-vertical axis rotation	18	4	20
6	-	Physical vertical oscillations	30	3	20
7	-	Physical horizontal oscillations	84	3	20

The effect of coordinate system on location of the median

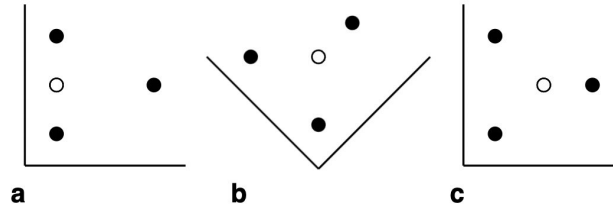


Fig. S1 Example of the displacement of medians after rotation of data points. **a.** Three data points (filled) with their median (open). **b.** The same three data points after 45° degree rotation with their median. **c.** Panel b after -45° rotation: the data points are at the same position as in **a**, but the median is at a different position

Overview of all observed transitions between consecutive ratings

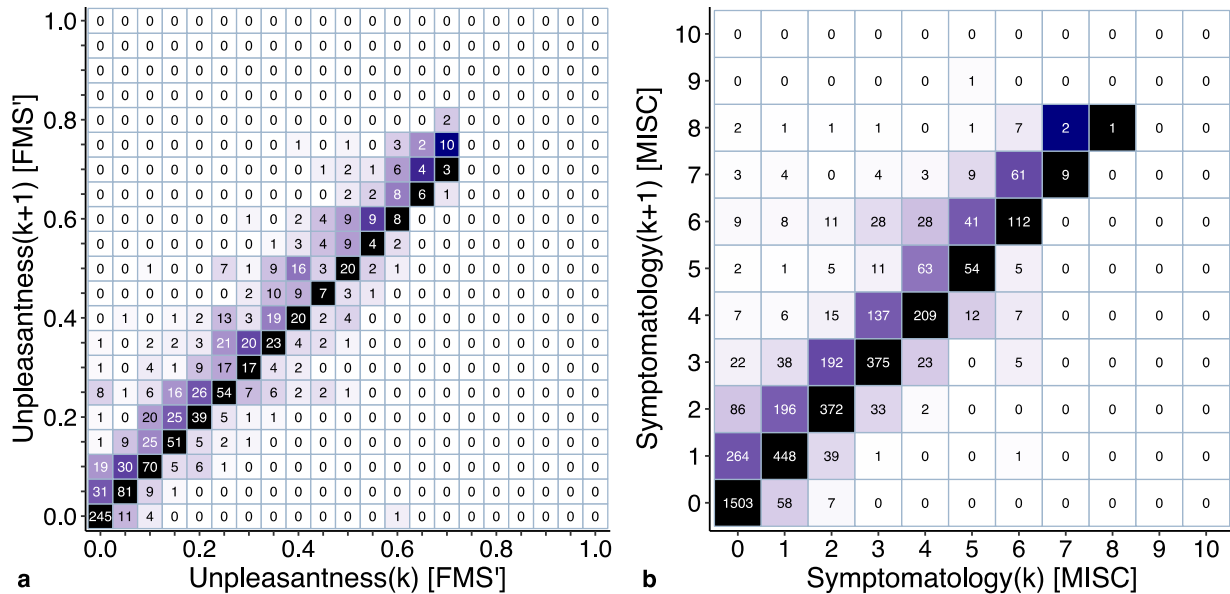


Fig. S2 Data underlying Fig. 1 of the main text. Overview of transitions between ratings taken at consecutive (k versus $k+1$) timepoints during ongoing stimulation. **a.** FMS' ratings on unpleasantness. **b.** MISC ratings on symptomatology. Diagonal cells contain the number of unchanging ratings. The shading of other cells represents the fraction of the off-diagonal transitions in that column

Reported causes of unpleasantness

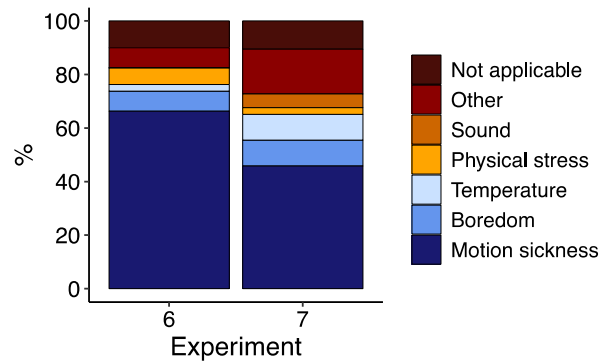


Fig. S3 Main factor contributing to the experienced unpleasantness in response to a provocative motion

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