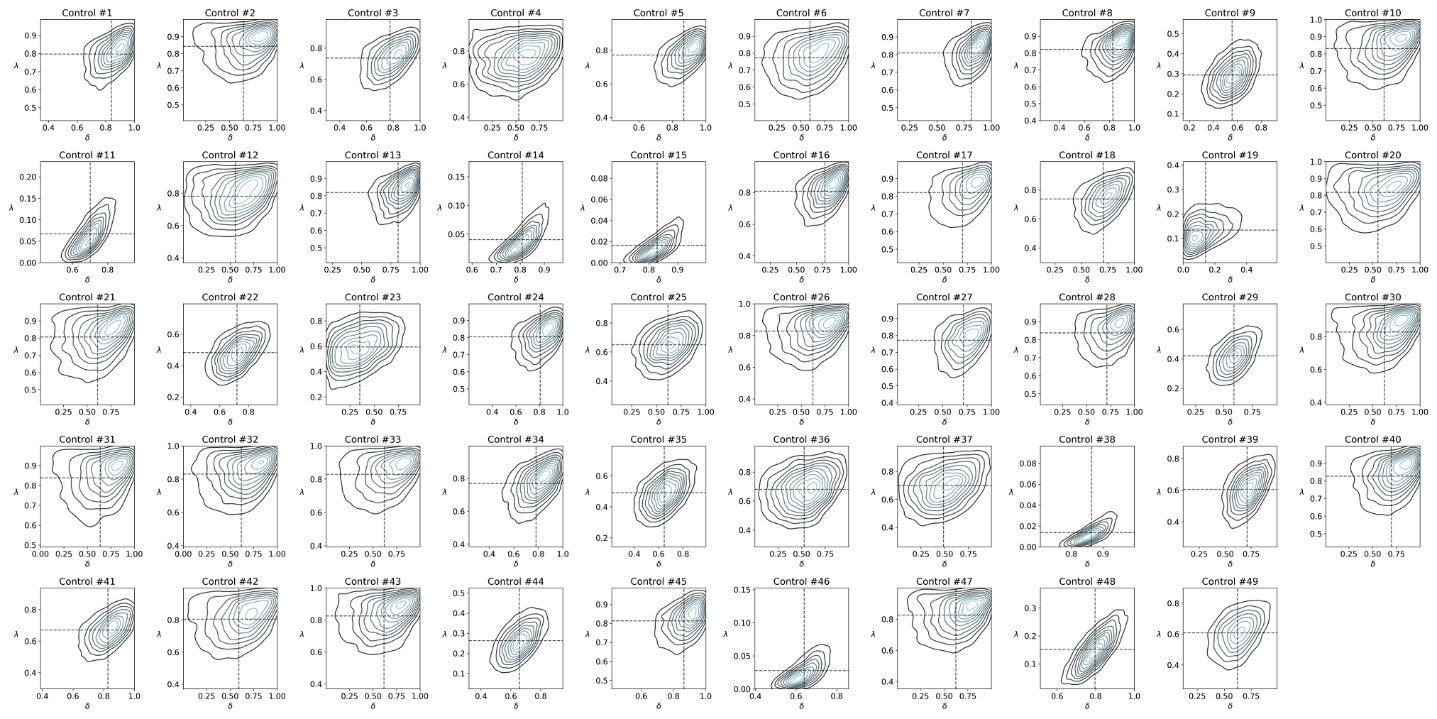
**A Bayesian brain model of adaptive behavior: An application to the Eisconsin Card Sorting Task**

**Supplementary Material**

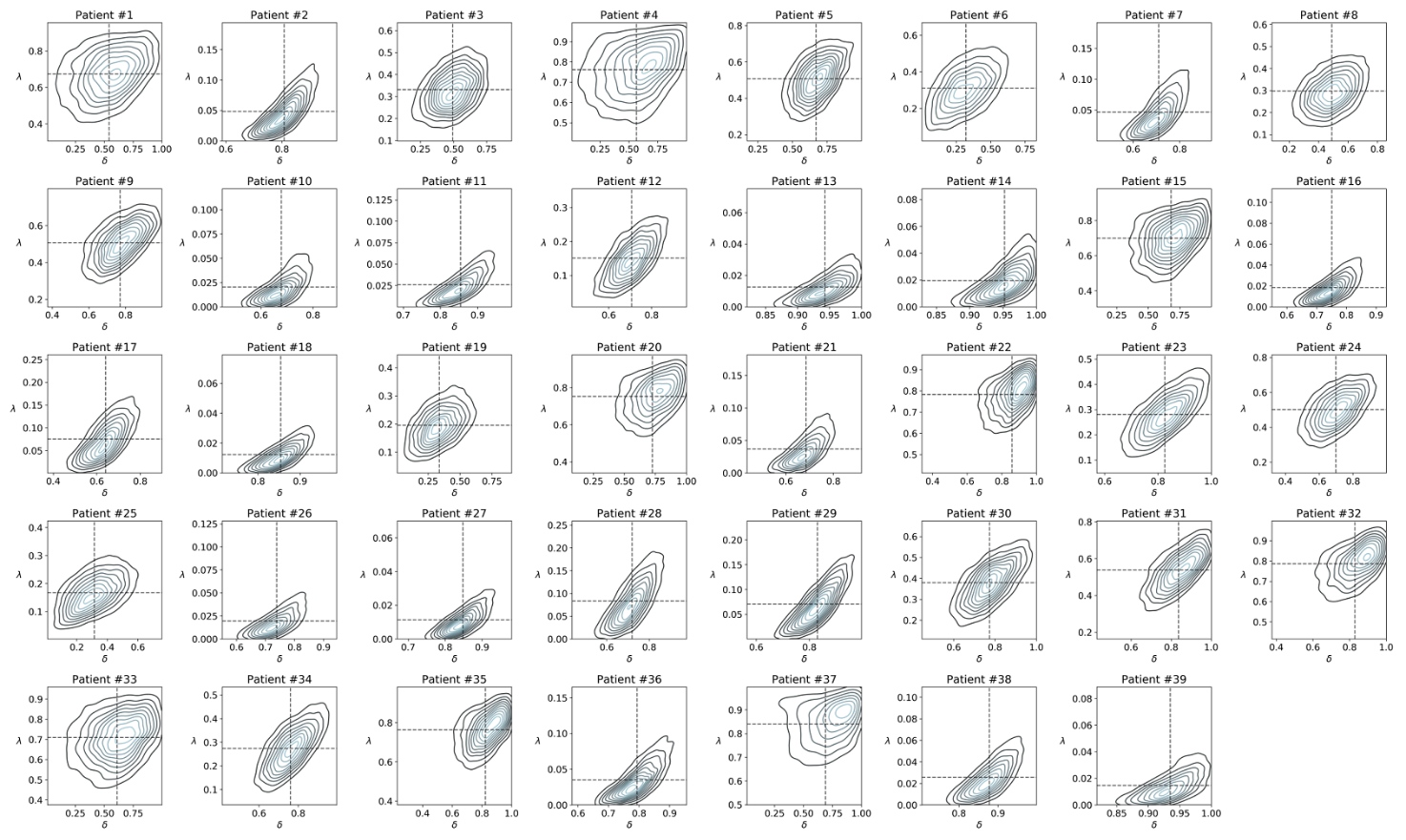
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In what follows, we provide the full joint posterior densities of the two cognitive parameters, namely, flexibility (**λ**) and information loss (**δ**), together with the mean coordinates (dotted lines) used as point estimates to recover information-theoretic quantities in the main text.



**Healthy individuals.** The figure shows the joint posterior density of the two cognitive parameters for each participant in the control group. Dotted lines show the distribution mean.



**Sudstance dependent individuals.** The figure shows the joint posterior density of the two cognitive parameters for each patient in the SDI group. Dotted lines show the distribution mean.