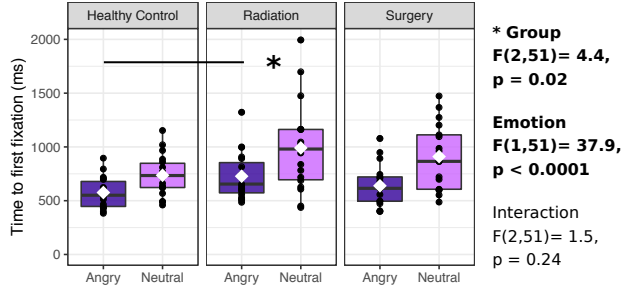
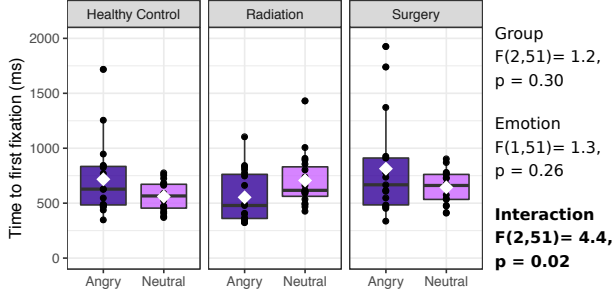
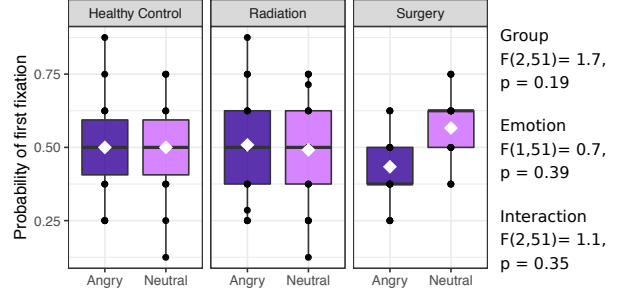
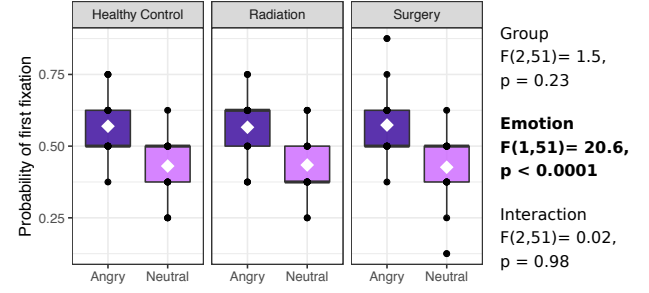
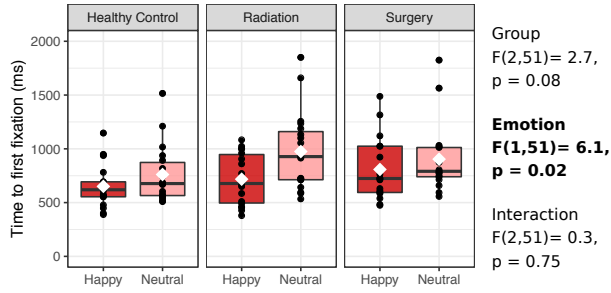
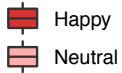
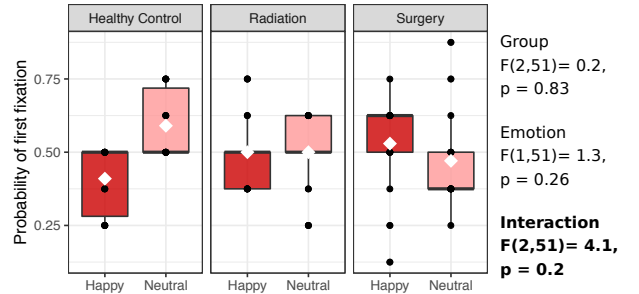
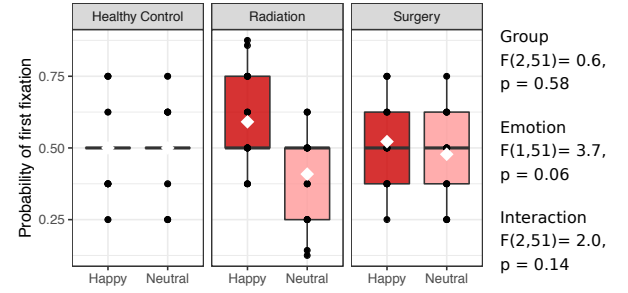
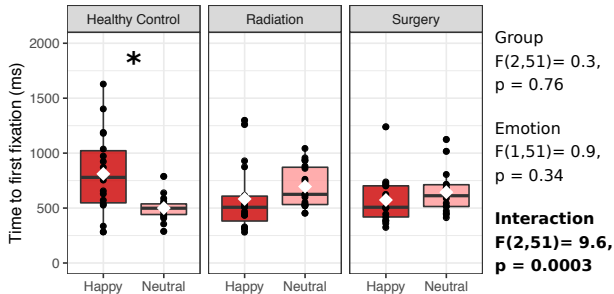


a**Time to first fixation (ms)****i**
Baseline

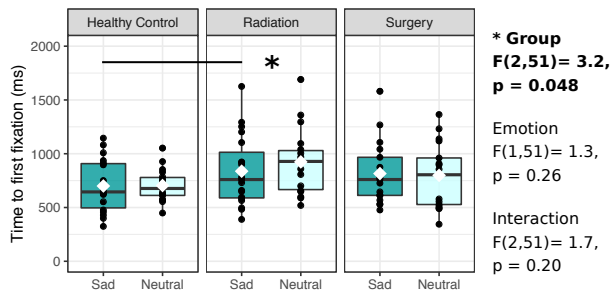
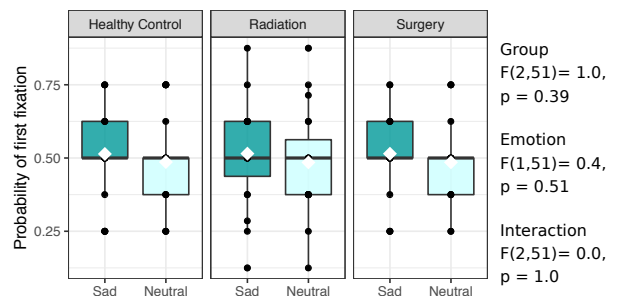
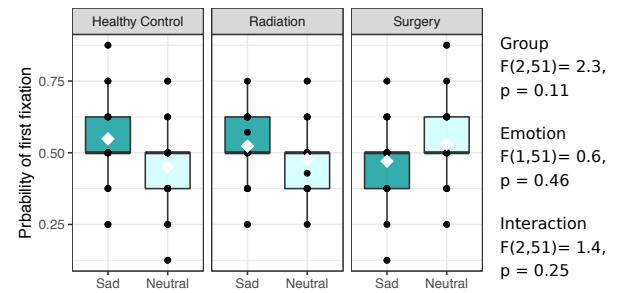
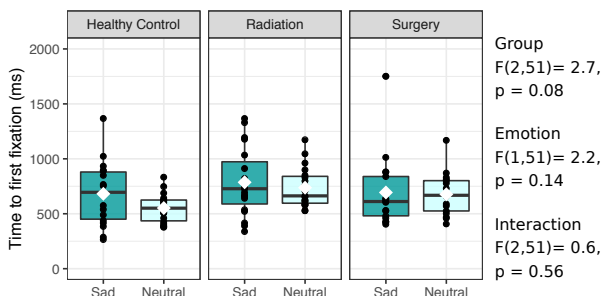
Emotion

**Regulate****b****Probability of first fixation****ii****Baseline**

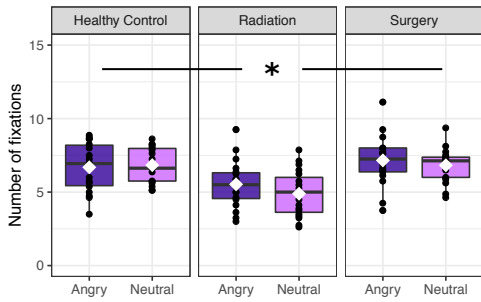
Emotion

**Regulate****iii****Baseline**

Emotion

**Regulate**

Supplementary Figure 1. Attentional orienting to emotional faces. a-b. Boxplots showing all data points with the mean (white diamond) and median (black line) for the (a) time to first fixation, and (b) probability of first fixation to the i. angry vs. neutral face, the ii. happy vs. neutral face, and the iii. sad vs. neutral face in the baseline (top panel) and regulate (bottom panel) conditions.

a**Number of fixations****i**
Baseline

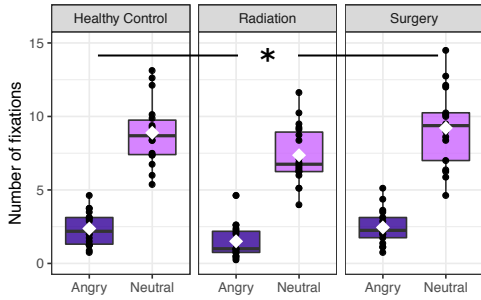
*** Group**
 $F(2,51) = 11.6$,
 $p = 0.0001$

Emotion
 $F(1,51) = 1.6$,
 $p = 0.26$

Interaction
 $F(2,51) = 0.90$,
 $p = 0.40$

Emotion

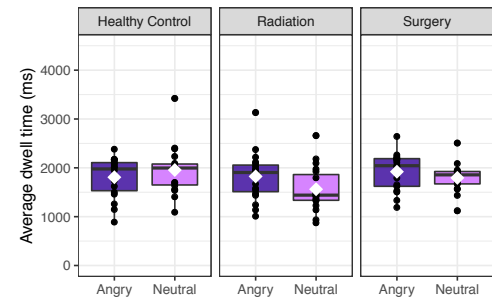
Angry
Neutral

Regulate

*** Group**
 $F(2,51) = 8.2$,
 $p = 0.0008$

Emotion
 $F(1,51) = 285.9$,
 $p < 0.0001$

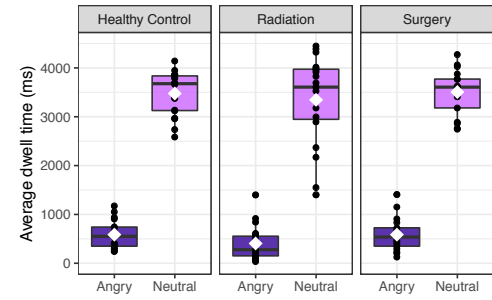
Interaction
 $F(2,51) = 0.5$,
 $p = 0.59$

b**Dwell time (ms)**

Group
 $F(2,51) = 2.9$,
 $p = 0.06$

Emotion
 $F(1,51) = 0.7$,
 $p = 0.40$

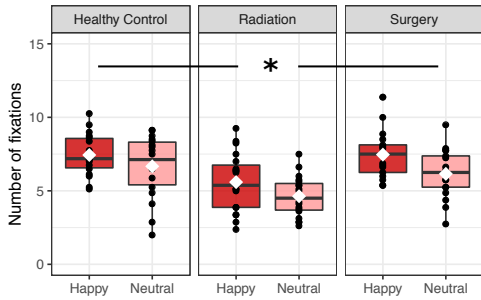
Interaction
 $F(2,51) = 0.17$,
 $p = 0.19$



Group
 $F(2,51) = 2.3$,
 $p = 0.12$

Emotion
 $F(1,51) = 572.6$,
 $p < 0.0001$

Interaction
 $F(2,51) = 0.02$,
 $p = 0.99$

ii**Baseline**

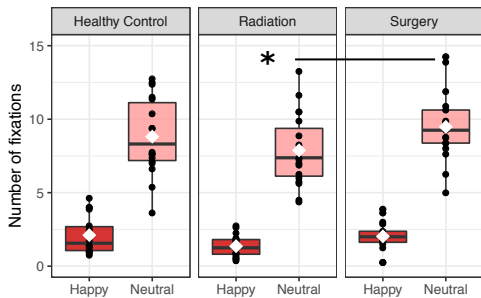
*** Group**
 $F(2,51) = 12.2$,
 $p < 0.0001$

Emotion
 $F(1,51) = 10.8$,
 $p = 0.002$

Interaction
 $F(2,51) = 0.2$,
 $p = 0.78$

Emotion

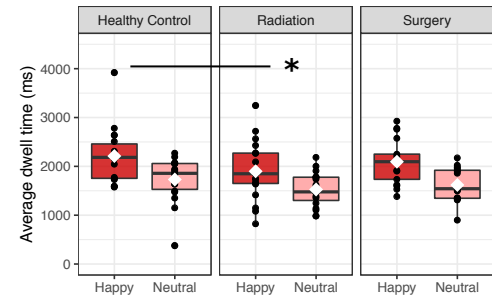
Happy
Neutral

Regulate

*** Group**
 $F(2,51) = 3.8$,
 $p = 0.03$

Emotion
 $F(1,51) = 338.4$,
 $p < 0.0001$

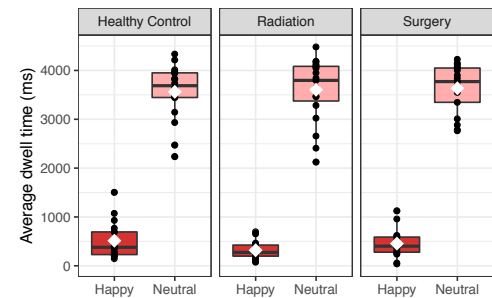
Interaction
 $F(2,51) = 0.6$,
 $p = 0.57$



*** Group**
 $F(2,51) = 4.4$,
 $p = 0.02$

Emotion
 $F(1,51) = 17.3$,
 $p = 0.0001$

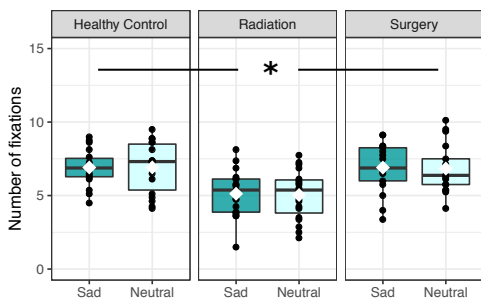
Interaction
 $F(2,51) = 0.1$,
 $p = 0.90$



Group
 $F(2,51) = 0.7$,
 $p = 0.47$

Emotion
 $F(1,51) = 872.0$,
 $p < 0.0001$

Interaction
 $F(2,51) = 0.4$,
 $p = 0.66$

iii**Baseline**

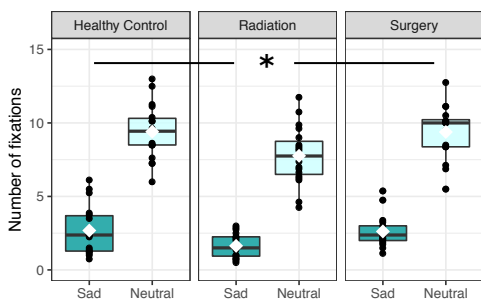
*** Group**
 $F(2,51) = 12.1$,
 $p = 0.0001$

Emotion
 $F(1,51) = 0.03$,
 $p = 0.85$

Interaction
 $F(2,51) = 0.01$,
 $p = 0.99$

Emotion

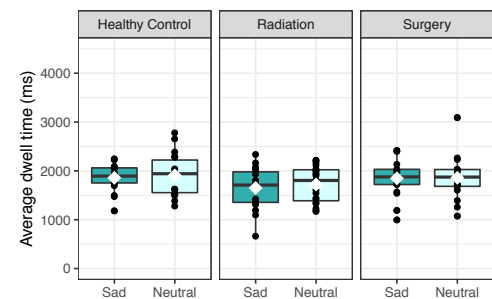
Sad
Neutral

Regulate

*** Group**
 $F(2,51) = 8.6$,
 $p = 0.0006$

Emotion
 $F(1,51) = 419.4$,
 $p < 0.0001$

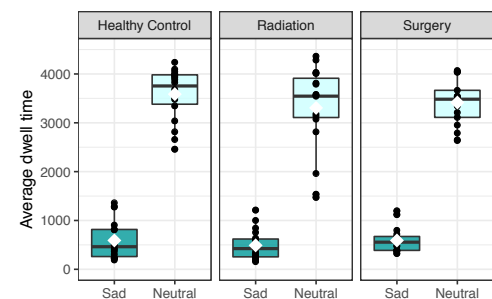
Interaction
 $F(2,51) = 0.8$,
 $p = 0.44$



Group
 $F(2,51) = 3.5$,
 $p = 0.04$

Emotion
 $F(1,51) = 0.3$,
 $p = 0.60$

Interaction
 $F(2,51) = 0.04$,
 $p = 0.96$



Group
 $F(2,51) = 2.5$,
 $p = 0.10$

Emotion
 $F(1,51) = 583.1$,
 $p < 0.0001$

Interaction
 $F(2,51) = 0.2$,
 $p = 0.78$

Supplementary Figure 2. Attentional engagement of emotional faces. a-b. Boxplots showing all data points with the mean (white diamond) and median (black line) for the (a) number of fixations, and (b) dwell time to the i. angry vs. neutral face, the ii. happy vs. neutral face, and the iii. sad vs. neutral face in the baseline (top panel) and regulate (bottom panel) conditions, over the course of the full trial (5 seconds). Note: although patients in the radiation group made fewer fixations than healthy controls and patients in the surgery groups, during both the baseline and regulate conditions, they did not differ in their dwell times, indicating they spent equivalent time viewing the faces despite making fewer fixations.