Supplementary Material Table 1

*Accuracy and confidence ratings for each stimulus (threshold levels are highlighted in grey)*

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Emotion | Model | Intensity  (%) | Accuracy  (95%-CI) | Confidence  (95%-CI) | Confidence  if correct response  (95%-CI) | Legitimatly / illegitimately  sure  (%) | | Legitimately /  illegitimately  undecided  (%) | | Legitimately /  illegitimately  unsure  (%) | |
| Anger | Male | 25 | 0.02  (-0.02-0.06) | 4.02  (3.78-4.26) | 4.00  (4.00-4.00) | 2.0 | 77.6 | 14.3 | 0 | 6.1 | 0 |
| 50 | 0.45  (0.30-0.59) | 3.45  (3.21-3.69) | 3.64  (3.24-4.04) | 28.6 | 26.5 | 18.4 | 10.2 | 10.2 | 6.1 |
| 75 | 0.73  (0.61-0.86) | 3.96  (3.73-4.19) | 4.03  (3.75-4.30) | 59.2 | 20.4 | 4.1 | 10.2 | 2.0 | 4.1 |
| 100 | 0.76  (0.63-0.88) | 4.10  (3.92-4.28) | 4.27  (4.12-4.42) | 75.5 | 14.3 | 8.2 | 0 | 2.0 | 0 |
| 125 | 0.94  (0.87-1.01) | 4.37  (4.18-4.56) | 4.39  (4.20-4.58) | 89.8 | 4.1 | 2.0 | 2.0 | 0 | 2.0 |
| Female | 25 | 0.00  (0.00-0.00) | 4.06  (3.88-4.24) | n/a | 0 | 87.8 | 10.2 | 0 | 2.0 | 0 |
| 50 | 0.29  (0.15-0.42) | 3.74  (3.49-3.98) | 4.21  (3.88-4.55) | 26.5 | 40.8 | 20.4 | 2.0 | 10.2 | 0 |
| 75 | 0.63  (0.49-0.77) | 4.12  (3.88-4.37) | 4.26  (3.96-4.56) | 57.1 | 30.6 | 4.1 | 2.0 | 2.0 | 4.1 |
| 100 | 0.76  (0.63-0.88) | 4.25  (4.02-4.47) | 4.46  (4.23-4.69) | 71.4 | 16.3 | 6.1 | 2.0 | 2.0 | 2.0 |
| 125 | 0.92  (0.84-1.00) | 4.33  (4.13-4.52) | 4.40  (4.21-4.59) | 89.8 | 2.0 | 6.1 | 0 | 0 | 2.0 |
| Disgust | Male | 25 | 0.00  (0.00-0.00) | 3.90  (3.68-4.11) | n/a | 0 | 79.6 | 14.3 | 0 | 6.1 | 0 |
| 50 | 0.69  (0.56-0.83) | 3.80  (3.51-4.08) | 4.03  (3.70-4.36) | 57.1 | 16.3 | 6.1 | 4.1 | 8.2 | 8.2 |
| 75 | 0.92  (0.84-1.00) | 3.96  (3.73-4.19) | 3.96  (3.72-4.19) | 77.6 | 6.1 | 2.0 | 6.1 | 0 | 8.2 |
| 100 | 0.86  (0.76-0.96) | 4.10  (3.91-4.30) | 4.14  (3.93-4.36) | 79.6 | 10.2 | 4.1 | 2.0 | 0 | 4.1 |
| 125 | 0.94  (0.87-1.01) | 4.22  (4.01-4.44) | 4.24  (4.02-4.46) | 85.7 | 4.1 | 2.0 | 4.1 | 0 | 4.1 |
| Female | 25 | 0.02  (-.02-0.06) | 3.86  (3.62-4.09) | 3.00  (3.00-3.00) | 0 | 75.5 | 14.3 | 2.0 | 8.2 | 0 |
| 50 | 0.76  (0.63-0.88) | 4.02  (3.81-4.22) | 4.21  (4.00-4.43) | 67.3 | 12.2 | 10.2 | 8.2 | 2.0 | 0 |
| 75 | 0.86  (0.76-0.96) | 4.12  (3.91-4.33) | 4.17  (3.94-4.39) | 77.6 | 10.2 | 4.1 | 4.1 | 0 | 4.1 |
| 100 | 0.92  (0.84-1.00) | 4.39  (4.19-4.58) | 4.47  (4.29-4.64) | 87.8 | 6.1 | 0 | 4.1 | 2.0 | 0 |
| 125 | 0.94  (0.87-1.01) | 4.47  (4.29-4.65) | 4.52  (4.37-4.67) | 93.9 | 4.1 | 0 | 0 | 2.0 | 0 |
| Fear | Male | 25 | 0.00  (0.00-0.00) | 4.16  (3.95-4.38) | n/a | 0 | 87.8 | 8.2 | 0 | 4.1 | 0 |
| 50 | 0.31  (0.17-0.44) | 3.47  (3.22-3.72) | 3.40  (2.82-3.98) | 18.4 | 38.8 | 22.4 | 6.1 | 8.2 | 6.1 |
| 75 | 0.51  (0.37-0.66) | 3.69  (3.46-3.93) | 3.88  (3.48-4.28) | 40.8 | 26.5 | 20.4 | 2.0 | 2.0 | 8.2 |
| 100 | 0.59  (0.45-0.73) | 4.04  (3.80-4.28) | 4.24  (3.94-4.54) | 51.0 | 28.6 | 8.2 | 6.1 | 4.1 | 2.0 |
| 125 | 0.73  (0.61-0.86) | 4.20  (4.00-4.41) | 4.28  (4.03-4.53) | 65.3 | 22.4 | 4.1 | 6.1 | 0 | 2.0 |
| Female | 25 | 0.02  (-0.02-0.06) | 3.94  (3.74-4.14) | 3.00  (3.00-3.00) | 0 | 77.6 | 18.4 | 2.0 | 2.0 | 0 |
| 50 | 0.55  (0.41-0.70) | 3.43  (3.17-3.69) | 3.63  (3.28-3.98) | 36.7 | 20.4 | 14.3 | 10.2 | 10.2 | 8.2 |
| 75 | 0.69  (0.56-0.83) | 4.00  (3.81-4.19) | 4.06  (3.82-4.30) | 63.3 | 24.5 | 6.1 | 2.0 | 0 | 4.1 |
| 100 | 0.69  (0.56-0.83) | 4.04  (3.83-4.25) | 4.18  (3.93-4.43) | 65.3 | 22.4 | 6.1 | 0 | 2.0 | 4.1 |
| 125 | 0.73  (0.61-0.86) | 4.31  (4.11-4.50) | 4.47  (4.28-4.66) | 71.4 | 20.4 | 4.1 | 2.0 | 2.0 | 0 |
| Happiness | Male | 25 | 0.39  (0.25-0.53) | 4.16  (3.97-4.35) | 4.05  (3.71-4.39) | 34.7 | 55.1 | 6.1 | 2.0 | 0 | 2.0 |
| 50 | 0.92  (0.84-1.00) | 4.35  (4.18-4.52) | 4.40  (4.25-4.55) | 91.8 | 6.1 | 0 | 0 | 2.0 | 0 |
| 75 | 1.00  (1.00-1.00) | 4.55  (4.41-4.70) | 4.55  (4.41-4.70) | 100 | 0 | 0 | 0 | 0 | 0 |
| 100 | 0.98  (0.94-1.02) | 4.49  (4.34-4.63) | 4.50  (4.35-4.65) | 98.0 | 2.0 | 0 | 0 | 0 | 0 |
| 125 | 1.00  (1.00-1.00) | 4.61  (4.47-4.75) | 4.61  (4.47-4.75) | 100 | 0 | 0 | 0 | 0 | 0 |
| Female | 25 | 0.35  (0.21-0.49) | 4.08  (3.87-4.29) | 3.88  (4.48-4.28) | 26.5 | 59.2 | 4.1 | 6.1 | 2.0 | 2.0 |
| 50 | 0.73  (0.61-0.86) | 4.16  (3.96-4.37) | 4.36  (4.16-4.56) | 69.4 | 20.4 | 2.0 | 4.1 | 4.1 | 0 |
| 75 | 0.88  (0.78-0.94) | 4.39  (4.23-4.54) | 4.47  (4.31-4.62) | 87.8 | 10.2 | 2.0 | 0 | 0 | 0 |
| 100 | 1.00  (1.00-1.00) | 4.61  (4.41-4.81) | 4.61  (4.41-4.81) | 98.0 | 0 | 0 | 0 | 0 | 2.0 |
| 125 | 0.98  (0.94-1.02) | 4.74  (4.61-4.86) | 4.75  (4.62-4.88) | 98.0 | 2.0 | 0 | 0 | 0 | 0 |
| Sadness | Male | 25 | 0.00  (0.00-0.00) | 4.16  (3.99-4.33) | n/a | 0 | 93.9 | 4.1 | 0 | 2 | 0 |
| 50 | 0.39  (0.25-0.53) | 3.61  (3.36-3.86) | 3.84  (3.41-4.28) | 28.6 | 32.7 | 20.4 | 6.1 | 8.2 | 4.1 |
| 75 | 0.76  (0.63-0.88) | 3.90  (3.60-4.20) | 4.08  (3.75-4.41) | 67.3 | 16.3 | 2.0 | 2.0 | 6.1 | 6.1 |
| 100 | 0.82  (0.70-0.93) | 4.10  (3.84-4.36) | 4.23  (3.96-4.49) | 69.4 | 14.3 | 2.0 | 8.2 | 2.0 | 4.1 |
| 125 | 0.67  (0.54-0.81) | 3.80  (3.51-4.08) | 4.18  (3.91-4.45) | 61.2 | 12.2 | 8.2 | 2.0 | 12.2 | 4.1 |
| Female | 25 | 0.02  (-0.02-0.06) | 4.06  (3.84-4.28) | 4.00  (4.00-4.00) | 2 | 83.7 | 8.2 | 0 | 6.1 | 0 |
| 50 | 0.24  (0.12-0.37) | 3.90  (3.70-4.09) | 3.75  (3.14-4.36) | 14.3 | 61.2 | 14.3 | 8.2 | 0 | 2 |
| 75 | 0.39  (0.25-0.53) | 3.90  (3.68-4.12) | 4.05  (3.64-4.46) | 30.6 | 46.9 | 10.2 | 6.1 | 4.1 | 2.0 |
| 100 | 0.53  (0.39-0.68) | 3.71  (3.45-3.98) | 3.92  (3.62-4.22) | 44.9 | 30.6 | 6.1 | 4.1 | 10.2 | 4.1 |
| 125 | 0.59  (0.45-0.73) | 3.94  (3.72-4.15) | 4.14  (3.97-4.31) | 57.1 | 30.6 | 4.1 | 2.0 | 6.1 | 0 |
| Surprise | Male | 25 | 0.02  (-0.02-0.06) | 4.00  (3.82-4.18) | 4.00  (4.00-4.00) | 2.0 | 87.8 | 6.1 | 0 | 4.1 | 0 |
| 50 | 0.61  (0.47-0.75) | 3.84  (3.61-4.06) | 3.93  (3.62-4.24) | 51.0 | 26.5 | 10.2 | 4.1 | 2.0 | 6.1 |
| 75 | 0.98  (0.94-1.02) | 4.27  (4.10-4.43) | 4.29  (4.13-4.45) | 93.9 | 0 | 2.0 | 4.1 | 0 | 0 |
| 100 | 0.82  (0.70-0.93) | 4.22  (3.98-4.47) | 4.30  (4.06-4.54) | 75.5 | 14.3 | 0 | 2.0 | 4.1 | 4.1 |
| 125 | 0.84  (0.73-0.94) | 4.37  (4.19-4.54) | 4.44  (4.25-4.63) | 79.6 | 14.3 | 2.0 | 4.1 | 0 | 0 |
| Female | 25 | 0.06  (-0.01-0.13) | 3.94  (3.74-4.14) | 4.00  (4.00-4.00) | 6.1 | 79.6 | 8.2 | 0 | 6.1 | 0 |
| 50 | 0.73  (0.61-0.86) | 3.96  (3.74-4.18) | 3.92  (3.66-4.18) | 61.2 | 20.4 | 6.1 | 6.1 | 0 | 6.1 |
| 75 | 0.88  (0.78-0.97) | 3.94  (3.69-4.19) | 4.07  (3.85-4.29) | 77.6 | 4.1 | 4.1 | 6.1 | 4.1 | 4.1 |
| 100 | 0.84  (0.73-0.94) | 4.27  (4.06-4.47) | 4.32  (4.10-4.53) | 77.6 | 12.2 | 4.1 | 4.1 | 0 | 2.0 |
| 125 | 0.88  (0.78-0.97) | 4.08  (3.85-4.32) | 4.02  (3.77-4.28) | 71.4 | 12.2 | 0 | 10.2 | 0 | 6.1 |
| Neutral | Male | 0 | 0.98  (0.94-1.02) | 4.27  (4.10-4.43) | 4.27  (4.10-4.44) | 95.9 | 2.0 | 0 | 0 | 0 | 2.0 |
| Female | 0 | 0.86  (0.76-0.96) | 3.94  (3.71-4.17) | 4.07  (3.84-4.30) | 73.5 | 4.1 | 8.2 | 8.2 | 2.0 | 4.1 |

*Notes.* CI= Confidence interval; n/a = not applicable.