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| **Supplementary Table 1: Results of the linear mixed-effects model to compare NFCS values between stimuli** | | | |
| **Stimulus** | **emmean** | **SE** | **95%-CI** |
| Non-noxious thermal stimulus | 6.52 | 0.428 | 5.67–7.38 |
| Short noxious stimulus | 7.70 | 0.267 | 7.16–8.23 |
| Prolonged unpleasant stimulus | 7.88 | 0.235 | 7.41–8.35 |
|  |  |  |  |
| **Contrasts** | **estimate** | **SE** | **p-value** |
| Non-noxious thermal stimulus - Short noxious stimulus | -1.173 | 0.488 | 0.020 |
| Non-noxious thermal stimulus - Prolonged unpleasant stimulus | -1.353 | 0.476 | 0.007 |
| Short noxious stimulus - Prolonged unpleasant stimulus | -0.181 | 0.340 | 0.59 |
| **Random Effects** |  |  |  |
| σ2 | 1.58 |  |  |
| τ00 id | 0.18 |  |  |
| ICC | 0.10 |  |  |
| N id | 33 |  |  |
| Observations | 67 |  |  |
| Marginal R2 / Conditional R2 | 0.109 / 0.201 |  |  |
| NFCS: Neonatal Facial Coding System, emmean: estimated marginal mean, SE: standard error, CI: confidence interval, ICC: Intraclass Correlation Coefficient. | | | |