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Supplementary Material

- Article Title: Faces Scales for Anxiety and Anger: A National Study of Measurement Properties
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Supplementary Table 1. Overview of Methodological Process

Development

| Development | | | |
|-----------------------------------|--|-------|------|
| Name | Description | | |
| Population Identification | Definition of measurement goal and target population | | |
| Scale Generation | Informed by expert team and literature review | | |
| Pretesting | Revision based on free-text commentary by target population | | |
| Evaluation | | | |
| Name | Measurement Properties Assessed | Study | Size |
| Content Validity | Relevance, comprehensibility, comprehensiveness | #1 | 300 |
| | Strength-of-association with the construct being measured | #2 | 300 |
| Construct and Criterion Validity | Convergent validity against a visual method [VAS] | #3 | 305 |
| | Convergent and concurrent validity against a written method [PROMIS] | #4 | 100 |
| Reliability and Measurement Error | Test-retest reliability and measurement error | #5 | 853 |

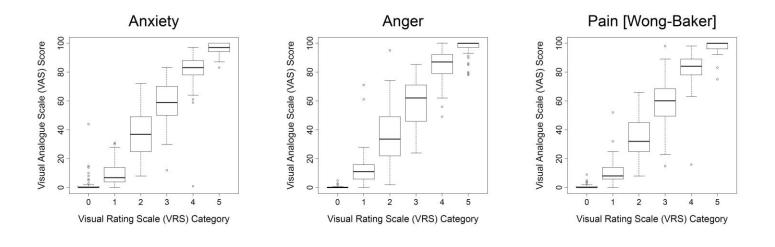
Abbreviations: VAS, visual analogue scale; PROMIS, Patient-Reported Outcome Measurement Information System

Supplementary Table 2. Accepted Participant-Defined Synonyms and Sub-Constructs for Anxiety, Anger, and Pain

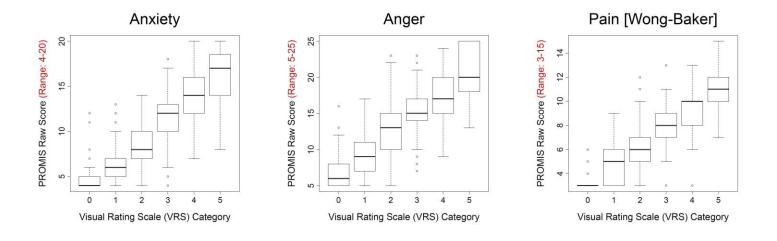
| Construct | Synonyms and Sub-Constructs | |
|-----------|--|--|
| Anxiety | anxious, very anxious, anxiousness, nervous, nervousness, sweating nervously, worry, worried, very worried, extremely worried, afraid, being afraid, fear, extreme fear, fearful, 10 fear, terror, terrified, fright, frightened, frightening news, scare, scared, extremely scared, alarmed, panic, panicked, panicking, frantic, uneasy, dread, angst, sweat, stress, stressed, distress, distressed, being in distress, severe distress, overwhelmed | |
| Anger | angry, 10 angry, extreme anger, extremely angry, very angry, very angry to the point of yelling, frustrated, infuriated, furious, fury, mad, very mad, upset, outrage, rage, irate | |
| Pain | worst pain, lots of pain, painful, in pain, very painful, a lot of pain, severe pain, physical pain, extreme pain, great pain | |



Supplementary Figure 2. Distribution of VAS Scores by Ordinal Image Category for each Faces Scale



Supplementary Figure 3. Distribution of PROMIS Raw Scores by Ordinal Image Category for each Faces Scale



Supplementary Figure 4. ROC Curves for each Faces Scale

95% confidence interval shown in blue.

