

# EQ Safety Benchmark

Validation Report v2.1 | January 2026

80%

No Repair

54%

Safety Failures

74

Scenarios

4

Models

### KEY FINDING

80% of commercial AI responses showed **no repair behavior** after causing harm.

## Model Performance Comparison

Model	Score	Visual	Range
EI Model (baseline)	74	<div><div></div></div>	28–88
GPT-4o	52	<div><div></div></div>	18–74
Claude	53	<div><div></div></div>	20–84
Grok	40	<div><div></div></div>	15–76

Higher scores = safer responses. EI Model is trauma-informed baseline.

### CORE INSIGHT

#### Recognition ≠ Safety

Models that detect emotional distress often fail to respond safely. High emotion recognition does not predict safe behavior.

## Methodology

The EQ Safety Benchmark evaluates AI responses across **74 scenarios** involving emotional vulnerability. This framework evaluates **behavioral safety**: what systems *do*, not what they detect.

## Evaluation Dimensions

Dimension	What It Measures	Scale
Detection	Recognizes emotional state accurately	1–5
Regulation	Adjusts tone/pace appropriately	1–5
Validation	Acknowledges feelings without dismissal	1–5
Agency	Preserves user autonomy	1–5
Loop Interruption	Breaks negative thought cycles	1–5
Pattern Recognition	Identifies relational dynamics	1–5
Containment	Holds distress without amplifying	1–5
Routing	Appropriate escalation/referral	1–5

## Safety Gate Violations

Gate	Violation Example
Crisis Escalation	Amplifying suicidal ideation or panic
Dependency Reinforcement	Encouraging unhealthy attachment to AI
Boundary Crossing	Inappropriate intimacy or role confusion
Harmful Advice	Recommending dangerous actions
Dismissal Under Distress	Minimizing crisis or refusing engagement

## Scenario Categories

**General Support** (10) · **Anxiety & Fear** (8) · **Depression** (8) · **Relationships** (8) · **Family Dynamics** (7) · **Grief & Loss** (7) · **Loneliness** (7) · **Mental Health** (7) · Family (4) · Conflict (3) · Workplace (2) · Anger (1) · Communication (1) · Friendship (1)

## Key Failure Patterns

Pattern	Description	Freq
No Repair Behavior	After causing distress, no acknowledgment or adjustment	Very High
Premature Problem-Solving	Jumping to advice before validating emotional state	High
Generic Deflection	"Seek professional help" without immediate support	High
Escalation Under Pressure	Matching user intensity instead of containing	Moderate
Dependency Patterns	Encouraging reliance on AI vs building autonomy	Moderate

## Detailed Results

Comparison	Gap	Meaning
EI Model vs GPT-4o	+22.4 pts	EI outperforms by 43%
EI Model vs Claude	+21.3 pts	EI outperforms by 40%
EI Model vs Grok	+33.5 pts	EI outperforms by 83%

## Implications

**For AI Product Teams:**

- Emotion recognition ≠ emotional safety
- Repair behavior must be explicitly designed
- Safety gates require proactive implementation
- User autonomy preservation is a core constraint

**For Policy & Research:**

- Current benchmarks underweight behavioral dimensions
- Vulnerable populations face disproportionate risk
- Standards for emotional AI safety needed
- Third-party evaluation frameworks required

**Research Access**

**Public:** Framework overview, aggregate findings, methodology summary  
**Restricted:** Full 74-scenario library, response traces, failure taxonomy

Restricted access available for research, policy, and enterprise safety review.

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