The Core Threat Structured Interview

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Author Note

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14 Abstract

Pathological anxiety is often maintained by avoidance behaviors driven by core threats—the 15 ultimate feared consequences underlying these behaviors. For example, contamination fears 16 may be driven by core threats such as death, harm to loved ones, disgust, or dysfunction. 17 Despite their importance in clinical formulations, core threats are under-researched, with no 18 standardized tools for their assessment. This study introduces the Core Threat Structured 19 Interview (CTSI), a tool designed to systematically identify core threats in both face-to-face and online formats. Across four validation studies, the CTSI demonstrated robust reliability 21 (e.g., interrater, test-retest) and validity (face, convergent, divergent). Results revealed the distinctions between core and proximal threats, highlighting the deeply personal and 23 motivational nature of core threats. By enabling individualized assessments, the CTSI provides a nuanced approach to understanding and treating anxiety, paving the way for improved clinical outcomes and research into the mechanisms driving fear.

Keywords: Core threats, Motivation, Measurement

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The Core Threat Structured Interview

29 Happy families are all alike; every unhappy family is unhappy in its own way.

Leo Tolstoy, Anna Karenina

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A patient walks into the clinic. You can immediately see her careful demeanor and chafed hands. She reports that she compulsively washes her hands, that she doesn't go to public restrooms, and that she carefully cleans doorknobs before touching them. What is she afraid of? When asked, she says that she is afraid of being contaminated. But is contamination the true threat underlying her fear? Initial reports of a patient's fears often mask deeper concerns (Borkovec et al., 1998). This patient might fear becoming sick and dying, contaminating her loved ones, being deemed disgusting and rejected, or simply suffering. The key is that we can't know the true threat until we ask.

These underlying concerns, known as core threats, are also referred to as core fears, catastrophic beliefs, or central innately aversive outcomes. Core threats are central to treating anxiety disorders (Huppert & Zlotnick, 2012; Zlotnick & Huppert, 2025). Many clinicians recognize the importance of understanding core threats to inform effective interventions (e.g., Craske et al., 2022; Gillihan et al., 2012; Murray, Loeb, et al., 2016; Pinciotti et al., 2021). However, despite their significance, clinical guidelines for identifying and addressing core threats remain limited. This paper aims to fill this gap by offering practical guidelines and exploring the phenomenology of core threats.

What are Core Threats?

Fear and anxiety are adaptive responses to perceived threats. The nature of these
threats often follows a hierarchical pattern. Consider a jungle, where dangers such as
venomous snakes, prowling lions, or quicksand abound. In this context, the jungle represents
the proximal threat, the immediate signal of danger. However, the core threat—the ultimate
feared outcome—is death (for example). It is the plausibility of death that makes the jungle

threatening and evokes fear.

Core threats arise from the interplay between what individuals expect (e.g., the likelihood of death) and their evaluation, or the meaning that they assign (e.g., the significance or consequences of potential death). This framework helps explain why the same situation may evoke different core threats for different people. For instance, individuals might expect different dangers but assign a similar meaning: one person in the jungle may expect to encounter a snake, while another expects a lion, yet both perceive the ultimate threat (meaning) as death. Conversely, individuals might expect the same danger but assign different meanings: for someone expecting an encounter with snakes, the meaning might center on their unpredictability, for another on their sliminess, for a third on the immediate risk to their life, and for yet another on the broader impact of their potential death on loved ones.

These distinctions are critical when examining anxiety disorders (e.g., Gillihan et al., 2012; Murray, Loeb, et al., 2016; Pinciotti et al., 2021). In pathological anxiety, seemingly benign stimuli are perceived as dangerous. To determine their safety, it is essential to understand the specific nature of the threat attributed to them (Craske et al., 2022; Gillihan et al., 2012; Huppert & Zlotnick, 2012; Murray, Loeb, et al., 2016). Consider an individual who fears blood. If their core threat involves the stress of encountering blood-like stimuli, exposure to sheep blood might be effective. However, if their primary fear centers on contracting AIDS, such exposure would likely be ineffective. The same principle applies to thought challenges and behavioral experiments.

A significant challenge in safety learning is its limited generalization across contexts (see Bouton, 2002). By focusing on core threats, clinicians can identify the most threatening aspects of feared stimuli, thereby promoting better generalization of safety learning across contexts (Gillihan et al., 2012; Zlotnick & Huppert, 2025). Identifying core threats also enhances clinicians' understanding of patients' experiences when confronting their fears. This

understanding fosters a sense of being supported for the patient and provides a coherent
narrative to explain their pathological behavior. Consequently, determining core threats can
significantly shape the trajectory of psychotherapy—from the initial case formulation
(Persons, 2012) to the implementation of specific interventions like exposures, thought
challenges, or behavioral experiments.

Determining Core Threats

Accurately identifying core threats is a complex process. It requires a clear 85 understanding of what core threats are and the types of questions best suited to uncover them. A semi-structured interview can be a useful tool for this purpose (Samuel et al., 2020), 87 offering benefits for both clinical and research applications. In clinical settings, such interviews help therapists identify the specific motivations underlying anxiety-related behaviors. This, in turn, facilitates the development of a clear case formulation (Persons, 2012) and enables the creation of tailored interventions (e.g., Gillihan et al., 2012; Murray, Loeb, et al., 2016; Pinciotti et al., 2021). In research, semi-structured interviews ensure consistency and accuracy, reducing ambiguity in identifying core threats and enhancing the 93 reliability and validity of findings. Moreover, these interviews allow the assignment of probability and threat values to both proximal and core threats. Tracking these values across treatment can provide valuable insights into the apeutic change and its relationship to other constructs.

98 The Catastrophizing Interview

The catastrophizing interview is a well-established procedure for investigating
catastrophizing in Generalized Anxiety Disorder (GAD) and related disorders (Davey, 2006;
Vasey & Borkovec, 1992). Developed by Vasey and Borkovec (1992), the procedure is based
on the decatastrophizing technique used in cognitive therapy (Kendall & Ingram, 1987). The
interview consists of two phases: topic generation and catastrophizing. During topic
generation, participants list their current worries, rate the percentage of time spent worrying
about each topic, and evaluate its significance. The topic with the highest percentage is then

selected for the catastrophizing phase. Participants are asked, "What is it about [selected worry topic] that worries you?" and then, "What about [participant's response] would you find fearful or bad if it did actually happen?" This questioning continues until participants either refuse to continue, cannot generate further responses, or repeat the same response three times.

The procedure was later refined to improve standardization (Davey, 2006). 111 Participants were instructed to write concise, single-sentence responses for each step on a 112 response sheet. Examples of typical catastrophizing steps were provided beforehand to 113 familiarize participants with the process. These updates reduced variability in responses and 114 enhanced accessibility. Initially designed for GAD, the procedure was later adapted for worry 115 in insomnia (Harvey & Greenall, 2003) and rumination in depression (Watkins & Mason, 116 2002). It primarily assesses the tendency to perseverate in worry by quantifying the number 117 of catastrophizing steps. 118

While effective for measuring perseverative worry, the catastrophizing interview is not designed to identify the underlying threat that triggers fear. Investigating core threats requires a distinct approach focused on uncovering the ultimate fear driving anxiety. To address these challenges, we developed a tailored interview specifically for identifying core threats.

124 The Core Threat Structured Interview

The Core Threat Structured Interview (CTSI) begins by identifying a focal proximal threat¹. This involves identifying situations or stimuli that induce fear or are avoided, and any rituals or safety behaviors the individual engages in. Once a set of fear responses is identified, participants select the situation that causes the most distress or negative impact on their lives.

¹ The CTSI manual can be found in the supplementary materials.

To identify core threats, the CTSI adapts the classic "downward arrow" technique 130 (e.g., Dugas & Koerner, 2005). Unlike the traditional focus on chains of beliefs (J. S. Beck, 131 2011), the CTSI emphasizes events, guiding participants through the question, "And then 132 what would happen?" (Huppert & Zlotnick, 2012). Participants are first asked what they 133 fear will happen if they refrain from avoidance or safety behaviors related to their chosen 134 proximal threat. Follow-up questions such as "And then what?", "What is so terrible about 135 that?", and "What does that mean to you?" are used to explore progressively deeper fears 136 (J. S. Beck, 2011; Leahy, 2003). Through this iterative process, the interview continues until 137 the underlying core threat is identified. 138

Core threats consist of an expectation that an event could occur and an evaluation 139 that the event would be catastrophic (Zlotnick & Huppert, 2025). These roughly translate to 140 likelihood and cost (e.g., Foa & Kozak, 1986). The evaluation depends on an individual's 141 unique values, goals, and motivations. Therefore, it is helpful to ask not only what might 142 happen but also what the event would mean to them or why it matters so much. This 143 approach often leads in surprising directions (i.e., a form of guided discovery; Padesky, 1993). 144 For instance, one woman worried that her children were abusing drugs. When asked what 145 was so horrible about that, she explained it meant her children were not sharing everything 146 with her, which in turn signified to her that she was failing as a mother. 147

In practice, the link between proximal and core threats often follows a chain of 148 progressively more threatening outcomes. For example, an individual might state, "If I don't 149 wash my hands, I will be contaminated, leading to illness, which will hinder my ability to 150 function, and ultimately sabotage my career." Another individual might say, "A burglar 151 might break into my house, harm or kidnap my child, and I couldn't bear that, as ensuring 152 my family's safety and growth is the most crucial part of my life." In some cases, individuals 153 describe multiple possible outcomes. When this happens, they are encouraged to explore the 154 branch they find most threatening. The interview concludes when the participant cannot or 155

will not identify a deeper threat, or when further questioning becomes repetitive.
 Importantly, these branches are highly idiosyncratic, and generic pathways are insufficient.

At times, individuals may "overshoot" their core threat, describing their response to 158 it instead of the threat itself. For example, someone who fears their family dying in a car 159 crash may upon further inquiry describe fear of falling into depression. In such cases, the 160 core threat is likely their family dying. To clarify, the interviewer can explicitly compare the 161 options: "What would be worse for you: having your family die or sinking into depression?" However, there are instances where the response is indeed the feared outcome. For example, 163 an individual may fear becoming so disgusted or anxious that they can no longer function, 164 care for their family, or maintain relationships. These nuances highlight the importance of 165 careful exploration to accurately identify the core threat. 166

167 Getting at Deeper Motivations

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Identifying core threats can be challenging, as simply asking what could happen is often insufficient. Understanding the processes that create discrepancies between proximal and core threats can help address these difficulties. Two key processes that interfere with identifying core threats are avoidance and difficulty accessing emotional cognitions. These two issues will be explored in detail below.

One explanation for the difficulty to uncover core threats is avoidance. Individuals may focus on immediate, proximal threats because confronting deeper, more global threats is distressing. Encouraging individuals to endure this discomfort and approach their fears can often facilitate access to core threats.

Another explanation involves the nature of underlying threats, which are often evident only in emotional reasoning or "hot" cognitions. These can be difficult to access in calmer, more reflective environments (David & Szentagotai, 2006; see Safran & Greenberg, 1982). To address this, clinicians use techniques designed to tap into emotional reasoning. In

the CTSI, individuals are encouraged to focus on their *feelings* rather than their "cold" cognitive appraisals. Asking, "What do you *feel* might happen?" instead of "What do you *think* might happen?" highlights the distinction between emotional and cognitive reasoning, helping to uncover hidden core threats.

Another technique involves the use of imagery, which research shows evokes stronger emotional responses than verbal processing alone (Holmes & Mathews, 2005, 2010). By guiding individuals to imagine threatening scenarios vividly, clinicians can bring emotions and memories to the surface, providing better access to hot cognitions. Together, these techniques offer complementary pathways for uncovering the deeper motivations behind anxiety-related behaviors.

191 Hypotheses

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The current study examines the phenomenology of core threats as measured by the CTSI. We propose the following hypotheses:

- 1. Core threats differ significantly from proximal threats.
 - a. Core threats cannot be reliably predicted based on proximal threats.
 - b. Core threats exhibit greater variability than proximal threats.
 - 2. A single core threat often underlies and motivates multiple proximal threats.
- 3. Core threats remain stable over time, demonstrating consistency across repeated assessments.

By exploring the relationship between core and proximal threats and testing these
hypotheses through the CTSI, this study aims to deepen our understanding of the
fundamental processes that drive fear and anxiety disorders. These insights may contribute
to refining theoretical models and improving clinical interventions by emphasizing the role of
core threats in shaping anxiety-related behaviors.

Transparency and Openness

206 Preregistration

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The study was pre-registered on AsPredicted (https://aspredicted.org/89j7-5m4t.pdf)
after data collection was completed but before coding of threat types began. The
pre-registration included hypotheses, methods, data collection procedures, and analysis
plans, ensuring that the analyses were planned without influence from the raw data.

Several deviations from the pre-registered plan occurred:

- We used three judges to categorize core threats instead of two to increase reliability.
 All judges coded the threats simultaneously, ensuring that the addition was not done to affect initial outcomes.
- 2. Due to the complexity of the data structure, we were unable to apply information methods (Theil's U) to assess the agreement between sets of threats. Instead, we used permutation tests, as described below to investigate the same hypotheses.
 - 3. The third experimental group (high anxiety, online CTSI) was reported as two separate groups—Hebrew-speaking and English-speaking—due to demographic differences.

Data, materials, code, and online resources

Supplementary materials, including datasets, analysis scripts, and detailed
methodological documentation, are available on GitHub at
https://github.com/eladzlot/ctsi-2025-public. The datasets have been redacted to include
only quantitative information to ensure participant confidentiality, as the core threats and
other open-ended responses could potentially identify specific individuals.

$_{ m 26}$ Reporting

We report how we determined all data exclusions, all manipulations, and all measures in the study. This study involved an analysis of existing data rather than new data collection, thus we do not report how we determined the sample size for each study.

$Ethical\ approval$

All studies were approved by the ethical review board of the The Hebrew University of Jerusalem.

233 Methods

Design Design

This study comprised four experiments, each involving distinct samples of 235 participants who completed the CTSI. Experiment 1 targeted individuals with 236 obsessive-compulsive symptoms, who participated in face-to-face interviews conducted via 237 Zoom. Experiment 2 also employed Zoom interviews but focused on a transdiagnostic 238 sample of individuals with high anxiety levels. Experiment 3 introduced a digital, 239 self-administered version of the CTSI, allowing participants to complete the interview 240 independently online. Experiment 4 replicated the methodology of Experiment 3 with an 241 international, English-speaking sample. Given that results are presented in a similar fashion 242 for each experiment, and it is useful to the reader to be able to see the results comparatively 243 across the four Experiments, we present the unique methods for each of the four experiments below, and following this, we present the results of all four experiments simultaneously.

246 Measures

Core Threat Structured Interview (CTSI): The CTSI is a semi-structured interview developed to identify the core threats driving fear or anxiety in individuals with anxiety disorders. It includes a series of questions aimed at uncovering the central trigger of fear or anxiety, followed by a guided process (using a "downward arrow" technique) to reveal the underlying core threat, and concludes with a section focused on clarifying the idiographic meaning of the threat for the individual. The CTSI was administered face-to-face via Zoom in the first two samples, targeting individuals with OCD and transdiagnostic anxiety. For the last two samples, a self-administered online version of the interview was used. During Experiments 1 and 2, minor adjustments were made to refine the interview process; these

256 adjustments did not alter the fundamental structure of the CTSI or its aims. Both the 257 face-to-face and online versions of the CTSI are available in the supplementary materials.

258 Data Analysis

259 Rating Threats

This study addresses the extent to which different descriptions of threats are similar.

Specifically, we examine whether proximal and core threats align and whether core threats

remain consistent across time. To systematically assess this similarity, threats were

categorized, enabling structured analysis.

Our investigation is primarily focused on identifying the threats driving fear 264 responses. These threats are manifestations of the values motivating these responses 265 (Zlotnick & Huppert, 2025). While several taxonomies of basic values exist (see Austin & 266 Vancouver, 1996; Ryan, 2012 for reviews), none adequately cover the types of threats 267 commonly associated with fear, including Schwartz's taxonomy (1992), which was previously 268 suggested for organizing core threats (Huppert & Zlotnick, 2012). To fill this gap, we 269 developed a novel taxonomy of global motivations based on clinical insights, expert 270 consultations, and theoretical frameworks such as those advanced by Dweck (2017). This 271 taxonomy, detailed in Table 1, was used to code both proximal and core threats. 272

Three trained research assistants applied this taxonomy to categorize threats.

Motivations underlying threats are often complex and may arise from multiple sources. For example, fear of contamination might stem from both concerns about sickness leading to death and feelings of disgust. Coders identified the primary motivation underlying each threat. When two motivations were equally prominent, both were recorded. If no clear dominant motivation emerged or the threat description lacked clarity, the threat was classified as ambiguous. This approach accommodates variability in how threats are reported and interpreted. Agreement between judges or across threats was defined as sharing at least one common motivation. Detailed coding criteria and instructions are provided in the

supplementary materials.

Coders were trained using external datasets not included in the current analyses.

Each judge independently coded the dataset, and discrepancies were resolved through

consensus discussions. This rigorous adjudication process ensured consistency in applying

the taxonomy.

Table 1

The Taxonomy of Values Used for Coding Threats.

Category						
of Drives	Description	Examples of Core Threats				
Affiliation	The drive to form social or	Rejection, social isolation, loneliness,				
	interpersonal bonds and avoid	being alone, social awkwardness. This				
	rejection.	covers anything from family				
		connections to wide social acceptance				
PredictabilityThe drive to understand and make		Confusion, uncertainty,				
	sense of one's environment.	unpredictability.				
Competence	The drive for effectiveness, capability,	Failure, not knowing what to do,				
	and practical functioning.	incompetence.				
Agency &	The drive to have agency and be in	Losing control, doing something				
Control	control of one's self and environment.	unintended, helplessness.				
Survival	The goal of staying alive.	Death of oneself, or a close other				
		(survival by proxy).				
Physical	The goal of avoiding physical	Pain, injury, physical harm to self or				
Comfort	discomfort or suffering.	close other (physical comfort by proxy)				
Self-Image	The desire to maintain a positive	Feeling worthless, evil, or guilty.				
	self-image and avoid a negative one.	Feeling that I've let myself down.				

Category			
of Drives	Description	Examples of Core Threats	
Morality	The drive to behave ethically and	Harming others, violating religious	
	uphold virtues.	beliefs or morals.	
Distress	The desire to avoid psychological	Disgust, Not-just-right experiences,	
(in)tolerance distress or discomfort.		pure psychic pain.	

Krippendorff's α was selected as the statistical measure of inter-rater reliability due to 287 its robustness and flexibility. This measure is widely used to assess consistency among raters 288 across various data types, including nominal, ordinal, interval, and ratio scales (Hallgren, 280 2012; A. F. Hayes & Krippendorff, 2007). Its ability to accommodate more than two raters 290 and handle missing data makes it particularly well-suited for our study, where raters 291 categorized mixed data types. Krippendorff's α values are interpreted as follows: values 292 between 0.60 and 0.74 indicate moderate agreement, suitable for exploratory research; values 293 between 0.75 and 0.84 reflect good agreement; and values of 0.85 or above signify excellent 294 reliability. These thresholds guided our interpretation of reliability within this study. As pre-registered, ratings of "ambiguous" were treated as missing data in the computation of α , as they do not represent a definitive decision about motivation. This decision ensures that reliability estimates reflect only clear and specific categorizations. Sensitivity analyses 298 confirmed that this approach did not substantially affect the results. Further details of the 299 reliability scoring algorithm are provided in the supplementary materials. 300

Agreement

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This study examines the correlations between sets of threats, each consisting of one or two categories. Traditional statistical measures, typically designed for single-category data, are insufficient to handle the complexity of multi-category sets, necessitating an alternative analytical approach. We calculated the rate of agreement, defined as the percentage of pairs

that share at least one category in common across all possible pairs to address this. This relatively liberal criterion accounts for the inherent fuzziness in defining drives and distinguishing between the primary and secondary motivations underlying anxiety.

While Theil's U was pre-registered as the information-theoretic measure to assess 309 agreement, we encountered difficulties applying it due to the complex structure of our data. 310 As a result, we switched to permutation tests, a non-parametric approach well-suited to 311 handling this complexity (Edgington et al., 2007). Unlike traditional methods, permutation 312 tests make no assumptions about the underlying data distribution. By repeatedly shuffling 313 the data, these tests generate a null distribution of the test statistic, enabling the 314 computation of p-values based on the proportion of permutations yielding a statistic as 315 extreme as, or more extreme than, the observed one (Ernst, 2004). 316

This method is robust for small samples like ours and circumvents the limitations of standard analytical techniques, such as information-theoretic measures, which are ill-suited to our data. We report the expected number of agreements, the empirical count of agreements, and the likelihood (p) of obtaining the empirical count by chance, assuming the expected count is accurate. Consistent with conventional statistical practice, p < .05 is considered significant.

Motivational Diversity

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Hypothesis 1b posits that core threats are associated with diverse motivations,
whereas proximal threats are not. To quantify this diversity, we employ a variation of
Simpson's Diversity Index (D; Simpson, 1949). D measures "unalikeability," or the
probability that two randomly selected members of a population will have different
motivations (Kader & Perry, 2007). It ranges from 0 to 1, where 0 indicates a completely
heterogeneous population and 1 indicates a maximally homogeneous population (all members
share the same motivations). For interpretability, we classify D values below 0.2 as highly
diverse, values between 0.2 and 0.4 as moderately diverse, and values above 0.4 as nondiverse.

While the standard form of D assumes discrete, mutually exclusive categories, our data allows for overlapping motivations. For example, one threat might be driven by both affiliation and survival, while another is driven solely by affiliation. To accommodate this, we adapted the calculation of D to account for partial overlaps between motivations. Specifically, we define $D = \sum_{N(N-1)}^{\delta_{ij}}$, where: N is the total number of threats, δ_{ij} is the agreement function, which returns 1 if the motivations of i and j overlap and 0 otherwise, $i \neq j$ ensures that a member is never compared to itself.

A sample's diversity is considered greater than another if more than 95% of
bootstrapped D values for one sample exceed those of the other. Bootstrapping is employed
because it provides a robust, non-parametric method to assess variability and establish
confidence intervals for D values, making it ideal for our data's structure and sample size.
This approach allows us to directly test whether core threats exhibit significantly greater
motivational diversity than proximal threats, supporting or refuting the hypothesis.

Methods: Experiment 1

Experiment 1 aimed to evaluate the feasibility and potential utility of the face to face

CTSI for identifying core threats among individuals exhibiting high levels of

obsessive-compulsive (OC) symptoms.

349 Participants

Participants were drawn from a pre-existing database of individuals who had previously consented to participate in research and completed the OCI-R. A research assistant contacted eligible participants and obtained informed consent.

Participants included 48 individuals, with 43 (89.58%) female and 5 (10.42%) male.

The mean age of participants was 24.60 years (SD = 3.20). The majority identified as Jewish

40 (83.33%), with others identifying as Christian 1 (2.08%) or non-religious 5 (10.42%).

Ethnicity data were not explicitly collected, which is noted as a limitation of the study. In

the Israeli context, ethnicity is often closely aligned with religion, and participants' religious

identification may partially capture cultural background.

Marital status was distributed as follows: 40 (83.33%) single, 7 (14.58%) married, and 1 (2.08%) divorced. Educational attainment ranged from 2 to 4 years, with a mean of 2.70 years. 32 (66.67%) of participants were employed. Income was reported as a median of 5000-8000 ILS per month.

OCD symptom severity, measured using the OCI-R, had a mean score of 37.20 (SD = 11), with a median score of 38.50. The median OCI-R score (38.50) placed the majority of participants well within the severe range of obsessive-compulsive symptoms (Abramovitch et al., 2020). Moreover, 41 (85.42%) participants met diagnostic criteria for obsessive-compulsive disorder (OCD) based on the DIAMOND interview.

368 Procedure

Participants completed a series of questionnaires followed by a semi-structured interview conducted via Zoom, lasting between 45 minutes and two hours. The interview included the OCD module of the DIAMOND and the CTSI. The CTSI was used to identify core threats underlying two compulsions (proximal threats). To enhance variability, the compulsions were chosen to be as dissimilar as possible (e.g., a cleaning compulsion versus a checking compulsion). Interviewers explored participants' perceptions of what would occur if ritualistic behaviors were not performed. Participants were compensated with approximately \$10 per hour or course credit, depending on their preference.

Measures

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The face-to-face CTSI was employed to identify proximal and core threats. While
three independent judges initially scored each threat, inter-rater reliability was insufficient.

A consensus score was used for subsequent analyses to address this. This approach informed
the development of enhanced training protocols, which improved reliability in later
experiments. Despite initial limitations, the consensus scores are considered valid for the
purposes of this study.

Obsessive Compulsive Inventory-Revised (OCI-R; Foa et al., 2002): The
OCI-R is an 18-item self-report measure assessing the distress associated with
obsessive-compulsive symptoms using a Likert scale (0–4). It has demonstrated strong
psychometric properties across clinical and non-clinical populations (Foa et al., 2002;
Huppert et al., 2007). In this sample, the OCI-R exhibited high internal consistency, with an
omega coefficient of 0.90, supporting its reliability as a measure of OCD symptom severity.

Diagnostic Interview for Anxiety, Mood, and OCD and Related
Neuropsychiatric Disorders (DIAMOND; Tolin et al., 2018): The DIAMOND is a
semi-structured diagnostic interview developed to diagnose DSM-5 psychiatric disorders with
robust psychometric properties. For this study, only the OCD section was administered to
confirm OCD diagnoses. The DIAMOND has consistently demonstrated excellent inter-rater
reliability, test-retest reliability, and strong validity metrics (Tolin et al., 2018).

Methods: Experiment 2

Experiment 2 aimed to build on the findings of Experiment 1 by evaluating a transdiagnostic population with elevated anxiety symptoms. A central objective was to assess the test-retest and inter-rater reliability of the CTSI.

400 Participants

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Participants were recruited from a database of individuals who had consented to research and completed the STICSA. A research assistant contacted eligible participants and obtained informed consent.

Participants included 42 individuals, with 40 (95.24%) female and 2 (4.76%) male.

The mean age of participants was 27.80 years (SD = 6.20). The majority identified as Jewish

(41 (97.62%)), with on identifying as non-religious (1 (2.38%)). While ethnicity data were

not explicitly collected, this was noted as a limitation of the study. In the Israeli context,

ethnicity is often closely aligned with religion, so participants' religious identification may

partially capture their cultural background.

Marital status was distributed as follows: 34 (80.95%) single, 7 (16.67%) married, and 1 (2.38%) divorced. Educational attainment ranged from 2 to 4 years, with a mean of 2.80 years. Income was reported as a median of 8000-15000 ILS per month. Anxiety symptom severity, measured using the STICSA, had a mean score of 20.90 (SD = 13.40).

414 Procedure

Participants completed the CTSI via Zoom in two sessions spaced approximately one to two months apart (Median = 33 days; Range: 25–49 days). In the initial session, an interviewer guided participants to identify and explore the fear they perceived as most impactful. The second session replicated the procedure, focusing on the same proximal threat but involving a different interviewer to assess inter-rater reliability. Each session lasted 30 to 90 minutes. Between the two sessions, 5 participants (11.9%) withdrew from the study. Participants were compensated with approximately \$10 per hour or course credit, depending on their preference.

423 Measures

The face-to-face CTSI was used to identify proximal and core threats, as outlined above. Threats were scored by three judges who achieved good inter-rater reliability, with Krippendorff's $\alpha = 0.84$.

The Trait Inventory for Cognitive and Somatic Anxiety (TICSA; Ree et al., 2008): The TICSA is a validated 21-item self-report measure designed to assess cognitive and somatic dimensions of trait anxiety. Each item is rated on Likert scale (0-3), with higher scores reflecting greater severity of anxiety symptoms. The TICSA has consistently demonstrated strong psychometric properties in diverse populations (Grös et al., 2007; Ree et al., 2008). In the present study, the TICSA exhibited high internal consistency, with an omega coefficient of 0.95.

434 Methods: Experiment 3

Experiment 3 aimed to build on the findings from Experiment 2 by employing a self-administered version of the CTSI, facilitating a more scalable and participant-directed assessment of core and proximal threats.

438 Participants and Procedure

Participants were recruited from a database of individuals who had consented to research and completed the TICSA. Each participant was contacted by a research assistant, who obtained informed consent before enrollment. A total of 81 participants completed the study online. TICSA symptom severity for the online sample had a mean score of 29.7 (11.3). Due to a technical error, participant demographic data were not recorded. However, given the similarity in recruitment procedures, the sample demographics are presumed to align closely with those of Experiment 2. Participants were provided with a secure link to complete the self-administered CTSI along with additional relevant questionnaires.

Participants were compensated with approximately \$10 per hour or course credit, depending on their preference.

Measures

The self-administered CTSI was used to identify proximal and core threats, as discussed above. Three judges scored each threat and achieved good inter-rater reliability (Krippendorff's $\alpha = 0.86$). The TICSA was used to measure anxiety, showing high internal consistency, with an omega coefficient of 0.91.

454 Experiment 4

Experiment 4 aimed to expand upon Experiment 3 by recruiting an international, English-speaking population.

457 Participants and Procedure

Participants were recruited via the Prolific platform for online research and compensated at a rate of £9 per hour. Screening focused on identifying individuals with

high anxiety, defined as a score greater than 4 on the Overall Anxiety Severity and Impairment Scale (OASIS; Norman et al., 2006), and functional impairment, indicated by at 461 least one item scored above 2 on the Work and Social Adjustment Scale (WSAS; Mundt et 462 al., 2002). Exclusion criteria included severe depression (PHQ score > 14; Kroenke et al., 463 2009), significant post-traumatic symptoms (short PCL-5 score > 6; Zuromski et al., 2019), 464 or psychotic symptoms (items 19 or 20 on the DIAMOND screener; Tolin et al., 2018). 465 Additional criteria included fluency in English, no history of head injury or reading/writing 466 difficulties (as indicated on the Prolific system), and experience on the platform with an approval rate above 95% and at least 300 prior submissions. 468

A total of 87 participants completed the study, with a mean age of 40.60 years (SD = 14.60). The sample was composed of 60 (68.97%) female and 27 (31.03%) male participants.

The majority of participants identified their ethnicity as White 72 (82.76%), followed by

Asian 9 (10.34%) and Black 6 (6.90%). Regarding educational and employment status, 14

(16.09%) of participants were students. Among the participants, 35 (40.23%) were employed full-time, 21 (24.14%) were employed part-time, and 5 (5.75%) reported being unemployed and seeking work.

STICSA symptom severity in this sample had a mean score of 7.80 (SD = 2.90).
Eligible participants signed a consent form, completed a set of questionnaires related to a
separate study, and then proceeded to the main experiment, which involved completing the
self-administered CTSI.

480 Measures

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The self-administered CTSI was used to identify proximal and core threats, as discussed above. Three judges scored each threat, achieving good inter-rater reliability (Krippendorff's $\alpha = 0.80$).

The Overall Anxiety Severity and Impairment Scale (OASIS; Norman et

al., 2006): was used to measure anxiety. This 5-item scale assesses the frequency, intensity,
and impact of anxiety and fear over the past week, with responses ranging from 0 (Little or
None) to 4 (Extreme or All the Time). Higher scores reflect greater severity, with a cut-off
score of eight recommended for identifying anxiety disorders and a change of four points
considered clinically significant (Moore et al., 2015). The OASIS demonstrated excellent
reliability in this study, with an omega coefficient of 0.82, consistent with its strong
psychometric properties reported in previous research (Norman et al., 2006).

492 Results

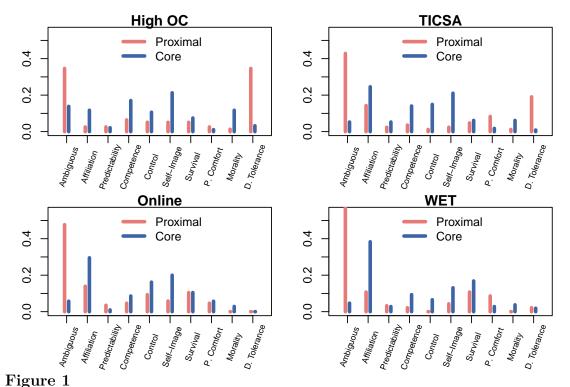
The Distribution of Threat Values

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The distribution of values in core and proximal threats varied across experiments,
with notable differences between the face-to-face and self-administered formats (see Figure
1). Proximal threats were more frequently rated as ambiguous compared to core threats.
This discrepancy may stem from the CTSI's emphasis on exploring values, though
participants were not explicitly instructed to frame their threats in these terms. A more
plausible explanation is that the CTSI facilitates a clearer focus on core threats during the
interview process.

501 Hypothesis 1: Proximal-Core Agreement

Hypothesis 1 was that core threats represent a distinct psychological process from 502 proximal threats. To test this, we examined two key questions: whether core threats can be 503 predicted based on proximal threats and whether core threats display greater diversity in 504 content compared to proximal threats. Across all experiments, core threats matched their 505 corresponding proximal threats in no more than 32.5% of cases, with the lowest agreement observed in Experiment 1 (High OC sample), where the rate was 16.9%. Among the transdiagnostic samples, agreement rates were slightly above chance. However, after applying the Holm-Bonferroni correction for multiple comparisons (Holm, 1979), only 509 Experiment 2 (face-to-face transdiagnostic sample) demonstrated a statistically significant 510 agreement between proximal and core threats. These results indicate that while proximal 511



Distribution of Threat Values Across Experiments

threats may offer some information about core threats, the observed agreement rates, are clinically insufficient. This finding supports the hypothesis that proximal threats do not reliably predict core threats, as more than 70% of core threats differed from their proximal counterparts.

The diversity of proximal threats, measured using Simpson's D, ranged from 0.30 to 0.46 across experiments. Core threats generally exhibited greater diversity than proximal threats, with the exception of Experiment 2 (face-to-face high anxiety sample), where diversity levels were equivalent. The difference was most pronounced in Experiment 1 and 4 (face-to-face high OC, and online English speaking). However, after correcting for multiple comparisons, only the diversity difference observed in Experiment 1 remained statistically significant. This analysis was not pre-registered and should be considered exploratory. The

diversity metrics and detailed statistical results are presented in Table 2.

After identifying core threats, participants were asked whether these threats reflected 524 their underlying motivation for fear. This assessment was conducted in the three trans-diagnostic samples but not in the OCD sample. The full results are presented in 526 Figure 2. Across all experiments, the majority of participants affirmed that the identified 527 core threats accurately represented their motivation for anxiety. Notably, the proportion of 528 participants endorsing the core threat as their "true" motivation was consistent regardless of 529 whether the proximal and core threats aligned or the identified core threat reflected a 530 different motivation. A significant proportion of participants expressed uncertainty about 531 whether the identified core threat truly captured their underlying motivation. However, this 532 uncertainty was less prevalent in the self-administered versions of the CTSI, suggesting that 533 the self-administered format may facilitate more confidence in the identification of core 534 threats. This analysis was not pre-registered and should be considered exploratory. While 535 the results are intriguing and suggest potential avenues for further investigation, they require 536 replication and confirmation in future research. 537

Hypothesis 2: Multiple Proximal Threats and One Core Threat

Hypothesis 2 was that one core threat often motivates multiple proximal threats. We investigated this in Experiment 1 by administering the CTSI for two distinct compulsions (proximal threats). Only 13 (27.08%) individuals identified core threats for both compulsions. This limited identification often occurred because participants became fatigued and impatient by the time they were interviewed about the second compulsion. Consequently, our data on this topic is both limited and potentially biased (e.g., is there a relationship between participants' persistence and the characteristics of their fears?).

A permutation test revealed that the median expected number of agreements was 4 (30.77%). In practice, 7 (53.8%, p = .076) pairs of core threats agreed with one another.

While this result is not statistically significant, it suggests that core threats may motivate

Table 2

Agreement and Diversity Statistics Across Studies

	Interview		Self-administered	
	High OC FTF	TD FTF	TD Online (He)	TD Online (En)
Agreement				
N pairs	71	78	77	84
Expected Agreement (%)	14 (19.72%)	16 (20.51%)	18 (23.38%)	22 (26.19%)
Actual Agreement (%)	12 (16.90%)	23 (29.49%)	25 (32.47%)	24 (28.57%)
p Agreement	.759	.031	.049	.302
Diversity (D)				
Proximal threats	0.31 [0.25, 0.38]	0.30 [0.23, 0.38]	0.34 [0.27, 0.45]	$0.46 \ [0.36, \ 0.58]$
Core threats	0.24 [0.20, 0.29]	0.31 [0.25, 0.38]	0.31 [0.25, 0.40]	$0.33 \ [0.26, \ 0.42]$
p Diversity	.038	.584	.294	.040

Note. Agreement reflects the count of expected and actual pairs of motivations aligning (p Agreement indicates the likelihood of observing this agreement by chance). Diversity is measured using the Simpson Diversity Index for proximal versus core threats (p Diversity represents the probability that core threat diversity exceeds proximal threat diversity).OC - obsessive compulsive, FTF - face to face, TD - Transdiagnostic, He - Hebrew, En - English

Likelihood of Identifying True Motivator

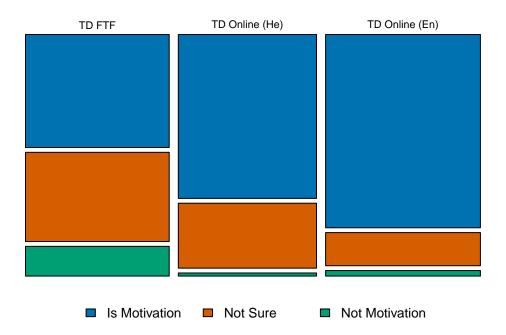


Figure 2

The mosaic plot illustrates participants' responses to the question: "Does the core threat you identified reflect your true motivation?" Tile sizes represent the relative frequencies of responses across groups. The plot indicates that core threats generally align with participants' true motivations. Sensitivity analyses confirmed that these proportions remained consistent regardless of whether core threats matched proximal threats.

multiple proximal threats within the same individual. Due to the small sample size, these 549 findings should be interpreted cautiously. Further research is warranted, as this estimate 550 might be higher if more similar compulsions were selected. 551

Interestingly, some pairs might share common underlying threats, even when their 552 coded values did not match. For example, one woman was afraid of contamination and dying 553 if she did not perform her cleaning compulsions (Survival) and also feared breaking up with 554 her boyfriend, not having children, and being alone forever (Affiliation). A deeper 555 investigation might reveal that not having children held the same significance as not 556 surviving for her. This dataset, collected during the initial development of the CTSI, may 557 have been affected by suboptimal administration. Nonetheless, this finding underscores that 558 the same core threats often appear to motivate different proximal threats. 559

Hypothesis 3: Test-Retest Validity

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In the high-anxiety face-to-face sample, 33 individuals (78.6%) completed both evaluations of their core threats. A permutation test revealed that the median expected 562 number of agreements was 11 cases (33.3%). In practice, 17 pairs of core threats agreed with each other (51.5%, p = .015).

This finding suggests significant test-retest validity, indicating that the same core threats likely motivate fear over time. Furthermore, it supports the notion that different evaluators can reliably identify the same core threat when interviewing an individual. However, the agreement rate is slightly lower than expected. Future research should investigate whether core threats are less stable than predicted or if adjustments to CTSI administration can improve test-retest reliability.

Discussion 571

The current study aimed to provide clinical guidelines for identifying core threats in 572 anxiety disorders and to explore the phenomenology of these threats. Core threats, the 573 underlying fears driving proximal threats, play a crucial role in the structure and treatment 574

of anxiety disorders (Zlotnick & Huppert, 2025). While proximal threats may involve 575 immediate fears such as contamination or injury, core threats often reflect deeper concerns, 576 including death, social rejection, or moral failure. Despite their frequent application in 577 clinical practice (commonly referred to as core fears), core threats have not been 578 systematically studied. 579

Our first hypothesis addressed the discrepancy between core and proximal threats. 580 Previous research (Gillihan et al., 2012; Huppert & Zlotnick, 2012; Murray, Treanor, et al., 581 2016) has underscored the complexity of core threats and highlighted the importance of 582 clinicians delving deeper into patients' fears. Consistent with these findings, we observed 583 that proximal threats were generally distinct from their associated core threats. Notably, 584 only about one-third of proximal threats in the transdiagnostic samples predicted their 585 corresponding core threats. This suggests that identifying core threats remains a meaningful 586 endeavor, to ensure reliable identification of core threats in the remaining two-thirds. This 587 distinction appears especially critical in OCD, where core threats are more diverse and 588 proximal threats less predictive. 580

Contrary to our expectations, significant differences in the diversity of core versus 590 proximal threats were observed only in the OCD sample (after applying the Holm-Bonferroni correction), and these effects were modest. Shifting focus to the content of core threats, we observed that, across all four samples, core threats tended to concentrate on themes such as affiliation, self-image, competence, and control. In contrast, proximal threats were often more ambiguous or focused on distress tolerance.

Assessing Validity

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The development of the CTSI was driven by practical research and clinical needs. 597 Despite their theoretical foundation and frequent use in clinical practice, core threats lacked 598 a validated tool for systematic measurement in research or therapy. The CTSI was created 590 by integrating common clinical practices with insights from the catastrophizing interview 600

(Davey, 2006). Early versions of the interview were manualized and refined based on expert feedback.

The current study aimed to evaluate the CTSI's validity and reliability as a tool for identifying core threats. Face validity was established through expert clinician reviews, confirming that identified core threats aligned with those commonly observed in psychotherapy. Construct validity was demonstrated through evidence of both convergent and divergent validity. Participants consistently reported that their identified core threats reflected their motivations, demonstrating convergent validity. Meanwhile, the mild associations between core and proximal threats supported divergent validity. Furthermore, participants indicated that core threats captured their motivations better than proximal threats, highlighting their distinctiveness.

In terms of reliability, the CTSI demonstrated robust test-retest reliability, ensuring consistent identification of core threats across administrations. It also exhibited good inter-rater reliability, with different clinicians reaching consistent conclusions. Finally, the findings showed consistency across diverse samples, reinforcing the CTSI's applicability and relevance to various populations.

What are We Measuring?

A major question remains whether fear is indeed organized around core threats to a certain extent. This challenge has two key dimensions: theoretical and functional.

The theoretical challenge involves determining whether core threats are genuinely
part of the fear structure and understanding the process by which the CTSI identifies them.

It is uncertain whether individuals possess direct verbal access to their underlying
motivations. Even if they do, questions arise about how clinicians or researchers can reliably
identify these motivations. From this perspective, core threats could be difficult to access or
may not exist in the way we conceptualize them. For instance, core threats might be

generated through random processes or influenced by non-anxiety-related factors (e.g., reporting what would sound valuable or important rather than the true motivation). Alternatively, the observed reliability over time and across interviewers could reflect participants recalling previous responses rather than genuine consistency.

We have reviewed the theoretical arguments for the existence of core threats
elsewhere (Zlotnick & Huppert, 2025). Briefly, we propose that core threats exist in all
individuals, and that the evaluations of their probability and of their meaning potentially
contribute to pathological anxiety. While not all individuals possess pathological core
threats, identifying such threats in those who do can support case conceptualization and
enhance the generalization of learning in psychotherapy.

Even assuming that a core threat can be determined, an interesting question arises:

Is the core threat identified or construed? Is the process of determining a core threat akin to

uncovering an existing prototype (cf. Rosch & Lloyd, 1978)? Or should core threats be

treated as ad-hoc narratives, individually tailored to activate the fear structure (cf. Barsalou,

2003)? If the latter is the case, the therapist's role would be to help the patient construe a

core threat that effectively activates the fear network as opposed to determining it.

Ultimately, these challenges may be unresolvable. There will always be alternative explanations, as we lack direct access to these theoretical constructs (see De Houwer, 2011).
One might ask, "If we can't be sure we can access core threats, are they scientific?" We argue that many useful and theoretically interesting constructs are similarly inaccessible, yet remain valuable, such as attachment styles, cognitive schemas, or implicit biases. Indirect methods, such as physiological measures of anxiety and implicit measures (Gawronski & De Houwer, 2014), may provide access. The accumulating data, particularly the functional implications of core threats, increasingly support the validity of this cognitive construct.

The functional challenge is as follows: Are we indeed identifying the true core

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threats? How can one validate this abstract clinical construct? One approach is to define a functional definition of core threats that *can* be empirically examined (De Houwer, 2011).

Core threats primarily represent an individual's motivations to avoid certain stimuli or situations. Indeed, preliminary findings suggested this is accurate; many individuals reported that their identified core threat indeed reflected their true motivation. However, a more concrete functional definition is needed.

Furthermore, a significant critique of the CTSI is its potential circularity. By defining
proximal threats as distinct from core threats, participants are implicitly guided to identify a
different underlying threat. Consequently, it is unsurprising that proximal threats differ from
core threats. This issue is especially pronounced in cases involving distress-tolerance-related
core threats, which are rare among core threats but common among proximal threats.
Additionally, requiring participants to articulate potential harm—even when they initially
report none—may inadvertently prompt them to identify an alternative core threat.

The solution for both of these problems would lie in demonstrating that core threats, as identified through the CTSI, exhibit distinct behavioral patterns compared to proximal threats. Core threats are believed to be more effective targets for safety learning, such as through exposure or behavioral experiments (Zlotnick & Huppert, 2025). Thus, demonstrating that focusing on core threats improves therapeutic outcomes would provide strong evidence for their validity.

Distress Tolerance

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In the face-to-face samples, particularly in Experiment 1, distress tolerance frequently emerged as a proximal threat but was rare as a core threat. This suggests that distress tolerance may serve as a form of avoidance rather than an ultimate feared outcome. Distress tolerance is often expressed in broad, universally valid terms (e.g., "I can't handle this discomfort"), which can enable individuals to avoid confronting the specific, more threatening fears underlying their distress. In essence, focusing on distress tolerance can

provide an avenue for avoidance by shifting attention away from addressing the actual threat.

Interestingly, this pattern was not observed in the self-administered versions of the CTSI,

possibly because the detailed prompts in the self-administered format encouraged

participants to identify harm-avoidant threats explicitly.

Recent literature emphasizes distress tolerance as a central mechanism in anxiety 681 disorders (Barlow et al., 2010; S. C. Hayes et al., 2006; Keough et al., 2010). Literature on 682 OCD highlights the importance of "not just right" experiences, sensory phenomena, 683 incompleteness, and other seemingly harmless phenomena (Ecker & Gönner, 2008; e.g., 684 Ferrão et al., 2012). An association between these phenomena and other anxiety disorders 685 has also been found (Michel et al., 2016). Indeed, distress tolerance has been shown to 686 correlate with psychopathology (Leyro et al., 2010) and has been suggested as a treatment 687 target in various contexts, such as smoking cessation (Brown, 2022) and borderline 688 personality disorder (Linehan, 1993).

Distress tolerance has been proposed as a primary transdiagnostic process to target in 690 emotional disorders (Barlow et al., 2010). Building on this model, we emphasize harm 691 avoidance as a complementary mechanism that warrants equal consideration. The prevalence 692 of distress tolerance related proximal threats, and rarity of distress tolerance related core 693 threats suggests that, even when distress tolerance is evident, harm avoidance likely plays a significant role in anxiety. Recent findings further support this notion, indicating that at least part of the motivation underlying NJRE in OCD arises from interference with cognitive processes rather than the enjoyment of daily life (Melli et al., 2020). In other words, beyond 697 the challenge of tolerating distress, there remains the critical task of disconfirming 698 underlying threats that sustain anxiety (Craske et al., 2022). 690

When designing transdiagnostic interventions, it is essential to address multiple underlying processes (Hofmann & Hayes, 2019). While distress tolerance has received considerable attention, we argue that harm avoidance—particularly in the context of core

threats—should also be considered a critical addition (A. T. Beck & Dozois, 2011; Foa & Kozak, 1986; Steimer, 2002).

Affiliation Core Threats

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Affiliation consistently appeared as a prominent value in the transdiagnostic
experiments. This could reflect an over representation of socially anxious individuals in the
sample, or it may indicate that the affiliation category encompasses diverse subtypes.

Differentiating between these subtypes in future research may provide greater specificity.

Alternatively, affiliation may genuinely represent the most common core threat, as suggested
by theories emphasizing its evolutionary and psychological significance (Bowlby, 1969; cf.

Gilbert, 2001).

713 Core Threats in OCD

Much of the foundational work on core threats originates in the OCD literature 714 (Gillihan et al., 2012; Huppert & Zlotnick, 2012). It is therefore reasonable to hypothesize 715 that core threats hold particular significance for individuals with OCD. Our findings support 716 this hypothesis and reveal notable differences between the OCD sample and the 717 transdiagnostic samples. In the OCD sample, proximal threats did not predict core threats 718 at all, a pattern not observed in the transdiagnostic groups. Additionally, core threats in the 719 OCD sample were significantly more diverse than proximal threats, underscoring their 720 heterogeneity. There was also a disproportionate prevalence of distress tolerance-related 721 proximal threats in the OCD sample, but this pattern did not extend to core threats. These 722 results emphasize the critical importance of identifying and addressing core threats for 723 individuals suffering from OCD. 724

The observed differences between the OCD and transdiagnostic samples may stem
from the inherent diversity of OCD presentations, which manifest in various forms.

Alternatively, this distinction may reflect the fact that the OCD sample was the only
validated pathological group in our study. Future research should investigate these

differences further, focusing on how core and proximal threats interact across different
anxiety disorders and how these relationships may inform tailored intervention strategies.

Limitations and Further Research

Core threats have been theorized to play a central role in the generalization of threat 732 (see Zlotnick & Huppert, 2025). If this is indeed the case, we would expect the same core 733 threats to motivate multiple different proximal threats. In the current study, we found some 734 non-significant initial evidence that one core threat can underlie multiple proximal threats. If 735 this finding is confirmed with further research, it would suggest that safety learning targeting 736 core threats could be a more effective intervention for anxiety disorders. This notion would be strengthened further by demonstrating better generalization for core threat-focused learning (Murray, Treanor, et al., 2016; see Pinciotti et al., 2021). However, the current 739 dataset is too small to reach definitive conclusions, and further study with a larger sample 740 size is needed. 741

To investigate the agreement between threats, we needed to codify them. As no existing typology fully suited our needs, we developed one specifically for this study. While this typology has not yet been validated, and there is a possibility of over-dividing certain categories (e.g., safety and physical discomfort) or under-dividing others (e.g., affiliation), we believe it is sufficient for exploring the associations between different threats. Nonetheless, further psychometric work is needed to establish a robust and validated typology for core threats.

The CTSI attempts to identify the ultimate underlying threat, but it is not clear if it succeeds. The stopping criteria used in the CTSI are accepted in the field (see Davey, 2006). However, there is no guarantee that the true motivation is identified. For example, should one stop at "I will die," or ask further to discover that the fear is of burning in hell? And is burning in hell the correct stopping point, or should one delve deeper? The instructions in the CTSI are to stop once the patient can no longer find any deeper meaning, repeat

themselves, or once they start getting further from the underlying threat, as evidenced by lower levels of distress. Ultimately, this question remains open and subjective to the discretion of the interviewer. We argue that, despite the inherent noise in the process, the answers obtained are at least better than plain proximal threats, even if they do not reach the "true" core threat.

We know from several studies that core threats are deceptively diverse (Zlotnick & 760 Huppert, 2025). For instance, Greenberg and colleagues (2018) examined whether the 761 underlying fear in olfactory reference syndrome centers on embarrassing oneself or offending 762 others. They found that individuals possess both types of motivations, regardless of their cultural background (Western vs. Eastern). Moreover, about a quarter of participants reported a completely unexpected concern: whether the odor indicated a medical condition. 765 This highlights the importance of investigating idiosyncratic fears expressed by individuals, 766 beyond the stereotypical fears associated with specific disorders. However, we hypothesize 767 that different disorders exhibit distinct patterns of core threats. For example, safety is a 768 prominent concern in panic disorder and OCD but appears less central in social anxiety 769 disorder, where competence and affiliation often take precedence. Similarly, morality plays a 770 significant role in OCD but is less pronounced in other disorders. Thus, variability in core 771 threats reflects both systematic, disorder-specific tendencies and individual idiosyncrasies. 772 Future research should focus on mapping these associations more comprehensively. 773

An additional limitation of this study is the low prevalence of predictability core
threats. Our clinical experience indicates that such core threats should be more prevalent
(though not quite as prevalent as other motivators). It is likely that the focus of the CTSI on
specific harm-avoidance-type outcomes may have masked such core threats. For example,
some people who fear having cancer are particularly bothered by the inherent fuzziness of
the situation - that they can never know for sure. When asked what they fear, they would
focus on cancer, but that is in fact over-shooting the actual motivating core threat. To

address this problem we recommend that interviewers review the downward arrow and explicitly ask what the worst outcome would be.

⁷⁸³ Implications for Clinical Practice and Future Research

The findings of this study have implications for both clinical practice and future research. Clinically, the Core Threat Structured Interview (CTSI) proves to be a valuable tool in uncovering the underlying fears that drive anxiety disorders, facilitating the development of more effective, tailored treatment plans. This aligns with the work of Persons (2012), who emphasized the importance of individualized case formulations in cognitive-behavioral therapy.

For future research, these findings open new avenues for exploring the mechanisms underlying the stability of core threats and their impact on treatment outcomes. The fact that the CTSI includes a self-administered, online version that appears to be reliable and valid should allow significant further research. We contend that one major limiting factor of studying core threats to date has been the absence of such a tool. Investigating the interaction between core threats and other psychological constructs, such as resilience and coping strategies, could further enhance our understanding of anxiety disorders and inform more comprehensive treatment approaches.

In conclusion, this study underscores the potential critical role of core threats in
anxiety disorders and provides a valid and reliable structured approach to identifying and
addressing these threats in clinical practice. By focusing on the underlying fears that drive
surface threats, clinicians might be able to develop more effective interventions, ultimately
improving patient outcomes.

803 Author Contributions

Conceptualization: E. Zlotnick, J.D. Huppert; Methodology: E. Zlotnick; Formal
Analysis: E. Zlotnick; Writing - Original Draft Preparation: E. Zlotnick; Writing - Review &
Editing: E. Zlotnick, J.D. Huppert; Supervision: J.D. Huppert.

807 Conflicts of Interest

The authors declare that there were no conflicts of interest with respect to the authorship or the publication of this article.

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