

# THE CHRISTIAN ENGLISH QABALAH

## *The Four Hidden Paths and Neurodevelopmental and Psychiatric Conditions*

### *PTSD, OCD, ADHD, and Autism as Four Modes of Frontal-Limbic Path Failure: A Framework for Further Research*

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## Abstract

The Christian English Qabalah identifies four hidden paths — Will (E, Chokmah→Geburah), Knowledge (H, Binah→Chesed), Courage (M, Chesed→Yesod), and Silence (P, Geburah→Yesod) — as the four inter-world crossings of the English Tree of Life, each corresponding to a documented frontal-limbic white matter tract in the Neurological Qabalah. This paper argues that four major neurodevelopmental and psychiatric conditions — PTSD, OCD, ADHD, and Autism Spectrum Disorder — represent four structurally distinct modes of failure of these four paths, individually and in combination. PTSD is the overwhelming of both Veil-crossing paths (Courage and Silence) by ascending traumatic Yesod content, leading to structural degradation of the extinction circuit. OCD is the capture of the ascending Will path by amygdala-driven intrusive thought, combined with the misfiring of the Silence path as a compulsive loop that mimics but never achieves genuine executive quieting. ADHD is the structural underpowering of both Abyss-crossing paths (Will and Knowledge) through catecholamine deficit, with cascading vulnerability of the Veil-crossing paths below. Autism Spectrum Disorder is the structural reorganisation of the Knowledge path's inter-world topology — reduced long-distance Atziluth-to-Yetzirah reach with intensified local connectivity — rather than a simple failure. The paper draws on the peer-reviewed neuroscience literature to ground each mapping, develops the comorbidity patterns these mappings predict, examines the correspondence between standard pharmacological treatments and the path-specific mechanisms identified, and proposes targeted modifications to the contemplative practices of CEQ Addendum I for each condition. The framework is offered as a contribution to the nascent field of neurologically-grounded contemplative therapeutics and as a research programme for further investigation.

# **I. Preliminary: Four Conditions as Four Path-Failure Modes**

## **1.1 The Structural Claim**

The four hidden paths of the Christian English Qabalah have two distinct neurological registers. The Abyss-crossing paths — Will (E, Chockmah→Geburah) and Knowledge (H, Binah→Chesed) — are not neurological tracts. They are the functional expression of the hemispheric intelligences at the executive level: the Logos principle (Chockmah/left hemisphere) expressing as left DLPFC executive function through Will, and the Spirit principle (Binah/right hemisphere) expressing as right DLPFC executive function through Knowledge. The Veil-crossing paths — Courage (M, Chesed→Yesod) and Silence (P, Geburah→Yesod) — are genuine neurological tracts: the descending white matter pathways through which the right DLPFC (Courage) and left DLPFC (Silence) exercise tonic regulatory governance over Yesod's subcortical limbic Foundation through the cortico-thalamo-limbic pathway. The thalamus is the relay: prefrontal descending projections reach the amygdala, hippocampus, and brainstem monoamine nuclei through thalamic intermediary rather than through direct PFC-limbic projection.

If these four axes are the primary regulatory pathways of the frontal-limbic system, then there should be four primary modes of clinical failure corresponding to their disruption. The neuroscience literature has independently arrived at exactly four major conditions whose core pathology is disruption of frontal-limbic regulation: PTSD, OCD, ADHD, and Autism Spectrum Disorder. The correspondence between the CEQ's structural framework and the empirical clinical taxonomy is not incidental. It reflects the fact that the frontal-limbic system has four primary regulatory axes, and that their specific modes of disruption produce distinct clinical profiles.

This paper does not claim that PTSD, OCD, ADHD, and autism are exhaustively explained by the four hidden paths. Each condition has genetic, developmental, and contextual dimensions that extend far beyond any single neurological framework. What is claimed is more specific: that the frontal-limbic circuit disruptions that are the core neurological signature of each condition correspond with precision to specific failure modes of specific hidden paths, and that this correspondence generates testable predictions about contemplative interventions, comorbidity patterns, pharmacological mechanisms, and research priorities that are not available from the neuroscience alone.

## **1.2 An Important Preliminary Note on Autism**

Three of the four conditions discussed in this paper — PTSD, OCD, and ADHD — represent straightforward disruptions of the hidden paths: the paths are failing to operate as they should. Autism Spectrum Disorder requires a different framing. The neuroscience of autism does not present a picture of a Knowledge path that is broken or absent but one that is differently topologically organised. Specifically, autism is characterised by reduced long-distance global connectivity combined with increased short-distance local connectivity — a pattern that maps

onto the specific inter-world character of the Knowledge path (its Abyss-crossing from Atziluth to Yetzirah) rather than onto a simple deficit of the path's function.

The CEQ framework therefore treats autism not as a privated state in the same sense that PTSD's Silence failure is privated — not as a loss of being from a region that should be fully present — but as a different topology of the Knowledge path's operation. This distinction maps onto the privatio boni taxonomy developed in the broader Catharturgy corpus: privation is the absence of being from a region that should be present — an ontological asymmetry. A different topology is not an absence of being but a different structural organization of being that is present. PTSD, OCD, and ADHD represent privations in the strict sense — disruptions where the path's function is impaired. Autism represents a structural reorganization, not a privation. The practical and ethical implication is significant: the contemplative practices for autism should support the Knowledge path's own topology rather than attempt to correct it toward a neurotypical standard. Attempting to treat a different topology as a privation is itself a category error — it misidentifies what kind of difference is present.

### 1.3 Overview Table

The following table provides the complete structural mapping before the individual condition analyses develop it in detail.

| Condition | Primary Paths             | Mode of Failure                                    | Direction                                    | Core Mechanism                                                                                                                                      | Contemplative Priority                                                                                                    |
|-----------|---------------------------|----------------------------------------------------|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| PTSD      | P (Silence) + M (Courage) | Overwhelmed from below, then structurally degraded | Ascending dominance of both Veil-crossings   | Traumatic Yesod content overwhelms both Veil-crossing paths; extinction circuit collapses; avoidance established as permanent executive prohibition | Courage BEFORE Silence in every session — enter before silencing; then Will and Knowledge to restore supernal orientation |
| OCD       | E (Will) + P (Silence)    | Misdirected into compulsive loop                   | Ascending Will captured; Silence misfires as | Ascending Will (intrusive thought = amygdala drives Broca's area) + misfired Silence                                                                | Will prayer at the moment of intrusion; genuine Silence practice at the moment of                                         |

| Condition | Primary Paths                             | Mode of Failure                                    | Direction                                                         | Core Mechanism                                                                                                                                                                       | Contemplative Priority                                                                                                                                                                                       |
|-----------|-------------------------------------------|----------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|           |                                           |                                                    | compulsion                                                        | (compulsion = failed executive quieting reinforcing the loop)                                                                                                                        | compulsive urge — not in response to the intrusive thought itself                                                                                                                                            |
| ADHD      | E (Will) + H (Knowledge)                  | Structurally underpowered at supernal source       | Insufficient descending force from both Abyss-crossings           | Catecholamine deficit weakens both Abyss-crossing paths' descending signal strength; cascading vulnerability of Courage and Silence paths below                                      | Morning priming of Will and Knowledge is the primary structural practice; Word Before Action for initiation; Encircling Vision for sustained attention                                                       |
| Autism    | H (Knowledge) — structural reorganisation | Differently organised topology, not simple failure | Long-distance Abyss-crossing reduced; local connectivity enhanced | Knowledge path's inter-world reach (Atziluth→Yetzira h) structurally reorganised: reduced broad contextual distribution, intensified domain-specific depth; cascading Yesod overload | Encircling Vision practice supports the Knowledge path's own topology — not correcting toward neurotypical standard but expanding the long-distance contextual reach within the autistic path's organisation |

## II. PTSD — Both Veil-Crossing Paths Overwhelmed

*PTSD Post-Traumatic Stress Disorder*

## **2.1 The Core Circuit Disruption**

PTSD is defined neurologically by the failure of the mPFC-amygdala regulatory circuit. The central model holds that the ventromedial and dorsolateral PFC exert top-down inhibitory control over the amygdala, and that a defect in this PFC function — whether structural, functional, or both — allows the amygdala's threat-conditioned responses to persist without adequate regulation. Patients exhibit hypoactivity in vmPFC and dlPFC combined with hyperactivity in the amygdala: the descending paths of Silence and Courage are weakened while their ascending directions are dominant.

**CORE NEUROSCIENCE** PTSD patients exhibit hypoactivity in vmPFC but hyperactivity in amygdala. Deficits in PFC and hippocampal function hinder fear memory extinction, promoting chronic symptom persistence. Structural neuroimaging shows volumetric reductions in PFC, hippocampus, and amygdala across chronic PTSD, with white matter microstructure abnormalities in the PFC-amygdala tracts. Hypersynchrony in hippocampal and amygdalar circuits reflects fear memories and emotions associated with the traumatic event, with decreased functional variability indicating the circuits are locked in a chronic threat-state. (Sources: Kredlow et al. 2022; Davis & Hamner 2024; Misić et al. 2016; PTSD neuroimaging meta-analyses.)

## **2.2 Mapping the Four Symptom Clusters onto the Four Paths**

PTSD's four DSM-5 symptom clusters map with precision onto specific hidden path failures, revealing that what appears clinically as a single condition is neurologically a four-path failure cascade triggered by a single overwhelming event.

### **Hyperarousal — the ascending Silence path dominant**

Chronic hyperarousal is the ascending Silence path's dominance pattern: the left amygdala chronically driving Broca's area and the left DLPFC, maintaining the brain in a state of elevated threat-readiness. The specific mechanism is the degradation of the infralimbic PFC's inhibitory projections to the amygdala's intercalated cells — the precise white matter structure of the Silence path. Chronic stress produces architectural changes in both directions simultaneously: the PFC loses dendritic spines and gray matter while amygdala dendrites expand, creating the neurological basis for the ascending direction's permanent dominance. Hyperarousal is not merely a symptom of PTSD — it is the Silence path's structural landscape after prolonged traumatic exposure.

### **Intrusion and flashbacks — ascending Courage and Silence simultaneously**

Intrusive memories and flashbacks represent the simultaneous ascent of both Veil-crossing paths. The hippocampal-amygdala hypersynchrony of chronic PTSD produces trauma memories that insert themselves into present awareness without temporal context: the Foundation's traumatic content erupts upward into both the analytical executive system (ascending Silence, producing verbal-cognitive intrusion) and the contextual executive system (ascending Courage, producing

embodied emotional-somatic re-experiencing). The failure to contextualise these memories as past rather than present — the specific hippocampal dysfunction in PTSD — means the Foundation cannot be entered voluntarily through the descending Courage path, because it is continuously erupting upward through both paths without invitation.

### **Avoidance — the Courage path abandoned**

Avoidance is the soul's executive prohibition of the Courage path's descending direction. Rather than the right DLPFC entering the Foundation's weight through acceptance-based engagement — the Courage path's specific function — the executive faculty establishes a permanent prohibition against contact with Yesod's threatening content. This is structurally different from Silence: Silence descends into Yesod and governs it from within; avoidance refuses to approach Yesod at all. The distinction is clinically critical because it means avoidance cannot be addressed by Silence path practice — it requires Courage path restoration first. The Courage path must be reopened before the Silence path can take hold, because avoidance forecloses the very contact that extinction learning requires.

### **Emotional numbing and dissociation — the Knowledge path failing**

When both Courage and Silence paths are overwhelmed and avoidance is established, the right hemisphere's broad contextual comprehension — which the Knowledge path carries from Binah into Chesed — becomes progressively saturated by threat-vigilance. The Knowledge path's ascending direction (right amygdala capturing right hemisphere attention) intensifies until the right hemisphere has no attentional resources remaining for genuine contextual comprehension. The final stage is the shutdown of the Knowledge path's contextual function entirely: emotional numbing and dissociation, in which the right hemisphere withdraws from social-emotional processing to protect itself from the threat-saturated landscape that hypervigilance has produced. Numbing is the Knowledge path gone dark.

## **2.3 The PTSD Cascade and Its Sequence**

The four-path failure in PTSD follows a specific sequence that is both clinically observable and structurally predicted by the CEQ framework. The traumatic event overwhelms the Courage and Silence paths simultaneously in the moment of trauma — the Foundation's content exceeds what either Veil-crossing path can regulate. The failure is then consolidated: the Silence path's extinction circuit fails to clear the amygdala's conditioned fear responses, establishing hyperarousal as a chronic state. The soul's executive faculty responds by establishing avoidance — the abandonment of the Courage path — as a protective measure. The Will path begins to degrade under the amygdala's chronic ascending capture of Broca's area, producing anger-driven speech and impulsive action. Finally the Knowledge path's contextual comprehension is saturated and then shut down, producing numbing and dissociation.

Recovery from PTSD in the CEQ framework is the sequential restoration of all four descending

directions in reverse order of their failure. The Knowledge path practice (Encircling Vision) partially restores contextual comprehension and reduces the hypervigilant saturation. The Courage path practice (Open River) reopens the Foundation's voluntary entry — the prerequisite for all further work. The Silence path practice (Still Waters) then addresses hyperarousal and supports extinction learning, now possible because the Courage path has re-established voluntary contact with Yesod. Finally the Will and Knowledge paths' full restoration comes through the morning invocations that re-establish supernal orientation as the governing reference point of the soul's daily executive life.

PTSD is not one path failing — it is all four paths responding to a single overwhelming event in sequence: Courage and Silence overwhelmed simultaneously, Courage abandoned, Will corrupted, Knowledge extinguished. Recovery is the same sequence reversed, beginning with Knowledge's contextual restoration and ending with Courage's re-entry.

## **2.4 The Specific Sequence for PTSD Practice**

The critical practical implication is that the Courage path must be activated before the Silence path in every session with PTSD-bearing content. Attempting Silence without Courage in PTSD produces more sophisticated avoidance — the executive faculty learning to perform stillness while maintaining its prohibition against genuine contact with Yesod's traumatic content. This is not genuine Silence but a more organised avoidance. The contemplative protocol for PTSD is therefore:

**Step 1 — Knowledge (Encircling Vision):** Restore the right hemisphere's broad contextual comprehension before engaging the Foundation's content. This reduces the hypervigilant saturation that makes the Courage path feel impossible and the Knowledge path feel unsafe.

**Step 2 — Courage (Open River):** Enter the Foundation's content voluntarily, named and held in the right DLPFC's contextual acceptance. This is the exposure step — not to the full traumatic content but to the present-moment somatic-emotional reality of the Foundation's current state.

**Step 3 — Silence (Still Waters):** Only after voluntary entry through Courage does the Silence practice address the residual arousal. The pre-verbal out-breath then engages the infralimbic PFC's extinction circuit with Yesod already entered and contextually held.

**Step 4 — Will (Word Before Action):** The morning invocation re-establishes the Logos's ordering authority over the verbal-analytical system, specifically counteracting the amygdala's chronic capture of Broca's area that PTSD's ascending Silence pathology produces.

**RESEARCH NOTE** The sequence Courage-before-Silence in PTSD is directly consistent with the clinical evidence that exposure therapy (entering feared content) must precede or accompany extinction training. The CEQ framework predicts this sequence from structural principles rather than empirical trial and error — Courage is the Chesed-Yesod path and must establish voluntary contact before Silence's Geburah-Yesod inhibition can work. Research question: Does explicit

framing of exposure therapy as a Courage path activation (entry rather than habituation) improve therapeutic alliance and reduce avoidance-related dropout?

### **III. OCD — Will and Silence Paths Captured and Misfired**

*OCD Obsessive-Compulsive Disorder*

#### **3.1 The Core Circuit Disruption**

OCD presents a circuit pattern that is counter-intuitive from the perspective of simple frontal-limbic failure: it is not a deficit of prefrontal executive control but a misdirection of it. The cortico-striato-thalamo-cortical (CSTC) circuit is hyperactive rather than hypoactive, producing the compulsive symptoms through excessive direct pathway activation rather than through insufficient PFC regulation.

CORE NEUROSCIENCE OCD shows greater functional connectivity between the nucleus accumbens and orbitofrontal cortex but lower functional connectivity between the dorsal putamen and lateral prefrontal cortex. Hyperactivity in the direct CSTC pathway — OFC input to striatum — facilitates compulsive behaviour. Excessive D2-agonist-induced compulsive checking is driven by a glutamate-GABA imbalance in basolateral amygdala-to-mPFC circuits. The vmPFC and ACC, critical areas of the default mode network communicating with the caudate nucleus during goal-directed tasks, show hypoconnectivity in OCD, while OFC, amygdala, and putamen show increased activity related to excessive habit formation. (Sources: Naze et al. 2023; Frontiers in Behavioral Neuroscience OCD review 2023; Rodriguez-Manrique 2023.)

#### **3.2 The Ascending Will Path: Intrusive Thoughts**

The obsessive intrusive thought in OCD is the ascending Will path's pathological signature — but in a specific and analysable form. The amygdala's threat-detection output reaches Broca's area and the left inferior frontal gyrus, biasing the verbal-analytical system toward threat-related content. In OCD this produces intrusive thoughts: unwanted, ego-dystonic verbal-cognitive content with a specific threat character (contamination, harm, religious transgression, sexual content — all are threat themes processed through the amygdala-to-IFG ascending route).

The crucial observation is that intrusive thoughts are not simply random — they are precisely the content that the ascending Will path produces when the amygdala's threat-detection is generating high-salience output. The thoughts are verbal (Will path = Chokmah/Broca's area/left IFG), analytical (Will path = left hemisphere precision), and threat-structured (amygdala input). They are the specific product of the ascending Will path's dominant direction.

The ego-dystonic quality of intrusive thoughts — the fact that the person with OCD typically finds their own intrusive thoughts alien and distressing rather than concordant with their values — is

the phenomenological experience of the ascending Will path's content being recognised as foreign to the descending Will path's orientation toward the Logos. The person's own analytical verbal system is generating content that does not accord with their genuine will; they experience this as intrusion because the Will path has two directions and the descending (Logos-ordering-will) direction is in genuine conflict with what the ascending (amygdala-driving-Broca's-area) direction is producing.

### **3.3 The Misfired Silence Path: Compulsions**

The compulsion is a misfired Silence path — this is the most structurally precise claim in the CEQ's analysis of OCD, and it is testable. The Silence path's function is to bring the left DLPFC's executive authority to bear on the left amygdala, achieving genuine covenantal stillness in the Foundation. The compulsion attempts exactly this: the person with OCD deploys executive will toward the Foundation's threatening content in order to silence it. The compulsion succeeds temporarily — the anxiety decreases after the ritual — which reinforces the behaviour. But it never achieves genuine Silence, so it must be repeated.

Why does the compulsion not achieve genuine Silence? Because the CSTC loop — the OFC's connection to the striatum and back through the thalamus — has captured the Silence path's executive output and redirected it through the compulsive habit circuit rather than through the direct left DLPFC-to-left amygdala inhibitory tract. The compulsion fires the OFC-striatum habit loop, which temporarily reduces distress through a different mechanism than genuine Silence: it produces a sense of completion or correctness (the OFC's reward function) rather than genuine executive quieting of the amygdala. The Silence path's energy is being consumed by the compulsive loop rather than arriving at its intended destination.

**OCD CIRCUIT SPECIFICALLY** The bidirectional reduction of neural coupling between the nucleus accumbens and OFC, combined with increased couplings between lateral PFC and dorsal putamen, supports the improvement of OCD symptoms over time — meaning the treatment goal is to strengthen the direct lateral PFC-to-putamen connection (a genuine Silence-type inhibitory route) while reducing the NAcc-OFC loop (the compulsive-Silence mimic). CBT for OCD is linked to large increases in connectivity especially between cerebellum, striatum, and prefrontal cortices, consistent with restoring direct PFC regulatory access. (Sources: Naze et al. 2023; Nature Communications OCD frontostriatal dynamics 2025.)

### **3.4 The Will-Silence Pair in OCD Practice**

Because OCD involves both the ascending Will path (intrusive thought) and the misfired Silence path (compulsion), the contemplative interventions must be deployed at different moments and with different targets:

The Will prayer is the intervention for intrusive thoughts — deployed at the moment of intrusion, not in response to distress about the intrusion. The prayer activates the descending Will path

(Logos ordering the analytical will) before the amygdala's ascending capture of Broca's area has time to elaborate the intrusive content further. It is not a thought-suppression technique — it does not try to push the intrusive thought away. It fires the descending Will direction through deliberate verbal-intentional engagement with the Logos as the proper source of the verbal-analytical faculty's content. The Logos's ordering authority is invoked precisely at the point where the amygdala has been generating ordering.

The Silence practice is the intervention for the compulsive urge — deployed at the moment the compulsive drive arises (the urge to perform the ritual), not in response to the intrusive thought itself. The genuine Silence practice — the pre-verbal out-breath, the non-elaborating stillness — does what the compulsion attempts but fails to do: it actually achieves executive quieting of the Foundation's fear-noise. The crucial distinction is pre-verbal (genuine Silence) versus ritual-action (misfired Silence). The compulsion is an action-based attempt at Silence; the genuine practice achieves Silence before action through the specific mechanism the compulsion bypasses.

The sequence is: intrusive thought arises → Will prayer (Logos ordering the analytical will, pre-empting further elaboration) → compulsive urge arises → Silence practice (pre-verbal out-breath, three breath-cycles) → if compulsive urge remains, repeat Silence practice rather than perform the compulsion. The Silence practice is the genuine version of what the compulsion attempts.

**RESEARCH NOTE** The prediction that the genuine Silence practice (pre-verbal out-breath, non-elaborating stillness) produces different neural engagement than the OCD compulsion is directly testable. Both involve left DLPFC executive activation in response to amygdala-generated anxiety. The genuine Silence practice should show direct left DLPFC-to-amygdala effective connectivity; the compulsion should show OFC-to-striatum-to-thalamus-to-cortex loop activation. fMRI effective connectivity comparison of the two conditions would distinguish the direct Silence path from the misfired CSTC loop. This is a specific, novel, and testable prediction that the CEQ framework generates and that the standard neuroscience of OCD does not.

## **IV. ADHD — Both Abyss-Crossing Paths Structurally Underpowered**

*ADHD Attention-Deficit / Hyperactivity Disorder*

### **4.1 The Core Circuit Disruption**

ADHD's neurological profile is distinct from the other three conditions. The disruption is at the level of the neurochemical substrate on which the Will and Knowledge paths' hemispheric expression depends, rather than at the level of the Veil-crossing tracts themselves. The Will path (E) is the Logos intelligence's expression as left DLPFC executive function — and that expression requires dopamine for its tonic operation. The Knowledge path (H) is the Spirit intelligence's expression as right DLPFC executive function — and that expression requires noradrenaline for its inhibitory control and contextual moderation. ADHD is the catecholamine deficit that leaves both

hemispheric expressions neurochemically underfuelled, without the Veil-crossing tracts themselves being damaged.

**CORE NEUROSCIENCE** ADHD is associated with weaker function and structure of PFC circuits, especially in the right hemisphere. The PFC requires optimal levels of norepinephrine (NE) and dopamine (DA) for proper functioning. ADHD is associated with genetic changes that weaken catecholamine signalling and, in some patients, slowed PFC maturation. NE enhances 'signals' through postsynaptic  $\alpha 2A$  adrenoceptors in PFC, while DA decreases 'noise' through D1 receptor stimulation. The right inferior PFC is specialised for behavioural inhibition, and lesions to the right PFC specifically recreate the ADHD symptom profile of distractibility, forgetfulness, impulsivity, poor planning, and hyperactivity. The right hemisphere is especially vulnerable. (Sources: Arnsten 2006, 2009; Arnsten & Pliszka 2011.)

The Will path (E, Chokmah→Geburah) is the Logos intelligence's executive expression: the left hemisphere's analytical-sequential intelligence instantiated at the level of the left DLPFC. This is not a tract between two separate structures — the left DLPFC is the left hemisphere's own executive cortex. The Will path names the functional relationship between the hemispheric intelligence and its operational expression. In ADHD, the left DLPFC's dopaminergic substrate is insufficient: the intention-action gap, the sustained attention deficit, and the working memory impairment are all expressions of the Logos intelligence failing to achieve its full executive instantiation at the DLPFC level for want of adequate dopaminergic fuel.

The Will path carries the Logos's ordering influence from Chokmah (left hemisphere / Broca's area) into Geburah (left DLPFC). In ADHD, the catecholamine deficit specifically weakens the left DLPFC's capacity to sustain the Logos's ordering — producing the characteristic ADHD profile of the Will path's failure:

**Intention-action gap:** verbal intention is formed (the Will path fires at Chokmah-Broca's level) but cannot be consistently sustained through to executive action (the Geburah-DLPFC end of the path lacks chemical support). The person with ADHD knows what they intend; the path from knowing to doing is what fails.

**Sustained attention:** the left DLPFC's role in maintaining top-down attentional focus is chronically underpowered, producing the specific distractibility of ADHD — not an inability to attend (which would be a different disruption) but an inability to sustain the executive hold on a chosen attentional object against competing stimuli.

**Inhibitory control:** the Will path's Geburah endpoint is specifically the analytical-executive faculty that exerts precision-force in a directed way, including the inhibition of competing impulses. Insufficient catecholamine signal at this endpoint produces impulsivity — the failure of Geburah's precise directional force.

The Knowledge path (H, Binah→Chesed) is the Spirit intelligence's executive expression: the right hemisphere's broad contextual-receptive intelligence instantiated at the level of the right DLPFC. Again not a tract but a functional relationship — the right DLPFC is the right hemisphere's own

executive cortex. The Knowledge path names the Spirit principle expressed as inhibitory control, contextual executive planning, and behavioural moderation. In ADHD, the right DLPFC's noradrenergic substrate is specifically compromised: the right PFC's specialisation for behavioural inhibition and sustained vigilance — Geburah's executive severity — depends on noradrenaline from the locus coeruleus for its regulatory precision. The Knowledge path deficit is the Spirit intelligence failing to achieve its full inhibitory expression at the DLPFC level for want of adequate noradrenergic tone.

The right DLPFC — Chesed, the Knowledge path's destination — is specifically identified in the ADHD literature as the more severely affected hemisphere. The right PFC's specialisation for behavioural inhibition, broad contextual planning, and long-horizon executive function directly corresponds to the Knowledge path's function: the Spirit's comprehending Understanding governing the receptive executive faculty.

The Knowledge path deficit in ADHD produces the specific profile of right DLPFC weakness: impaired behavioural inhibition (the right hemisphere's specialised function), reduced contextual executive planning (the Chesed faculty's broad-horizon orientation), and the characteristic emotional dysregulation that is increasingly recognised as a core ADHD feature — specifically, the right hemisphere's failure to provide contextual moderation of the right amygdala's reactivity (the ascending Courage path going unmoderated because Chesed lacks the catecholamine support to hold the limbic content contextually).

#### **4.4 The Cascading Vulnerability of Courage and Silence**

ADHD is primarily a deficit of the two Abyss-crossing paths, but this has important secondary consequences for the Veil-crossing paths. Because the Will and Knowledge paths are the descending source that primes and sustains the left and right DLPFC, and because the Courage and Silence paths require robust DLPFC function to operate, ADHD's Abyss-crossing weakness leaves the Courage and Silence paths chronically under-resourced.

This is not the same as PTSD's Veil-crossing failure — the Courage and Silence paths are not being overwhelmed from below but are simply receiving insufficient top-down support from above. The practical consequence is that ADHD brains working to compensate for structural Will and Knowledge path weakness exhaust their catecholamine reserves faster, leaving less regulatory capacity for Courage and Silence when emotional demands arise. This is the CEQ's specific explanation of ADHD's high comorbidity with anxiety and emotional dysregulation: the Abyss-crossing weakness produces Veil-crossing vulnerability as a secondary effect.

**RESEARCH NOTE** The prediction that ADHD's primary path failures are at the Abyss-crossings (Will and Knowledge) rather than Veil-crossings (Courage and Silence) suggests that interventions targeting the Abyss-crossing source — the morning Will and Knowledge priming practices — should show greater baseline improvement in ADHD than interventions targeting the Veil-crossings directly. A pilot study comparing morning Will + Knowledge invocation protocols with Courage + Silence protocols in adult ADHD participants, with sustained attention and

emotional regulation as outcomes, would test this prediction.

## 4.5 ADHD and Medication: The Catecholamine Correspondence

The medications effective for ADHD directly confirm the CEQ's path mapping. Stimulants (methylphenidate, amphetamine salts) and non-stimulants (atomoxetine, guanfacine) all work by increasing catecholamine availability in the PFC — precisely the chemical substrate of the Will and Knowledge paths' descending signal strength. They do not target the Veil-crossing paths directly. Guanfacine's  $\alpha 2A$  agonism specifically strengthens left DLPFC network connectivity, directly targeting the Will path's Geburah endpoint. This is the pharmacological equivalent of the Will prayer: both aim to strengthen the descending Logos-to-analytical-will signal, one through neurochemical support and one through intentional-spiritual activation.

The fact that ADHD medications work by strengthening the Abyss-crossing paths' chemical substrate, while PTSD and OCD treatments work by modulating the Veil-crossing paths' relationship with Yesod, is not merely interesting — it is a structural confirmation of the CEQ's claim that these conditions represent failures at different levels of the hidden path system. The pharmacology independently confirms the level at which each condition's primary disruption occurs.

## V. Autism — The Knowledge Path Differently Organised

*Autism Autism Spectrum Disorder — A Different Topology*

### 5.1 Why Autism Requires a Different Framework

Autism Spectrum Disorder is not a failure of the Knowledge path in the sense that PTSD is a failure of the Silence and Courage paths. The neuroscience does not present a picture of a Knowledge path that is absent, broken, or simply weaker than in neurotypical individuals. It presents a picture of a Knowledge path that is organised differently — with a specific and systematic reorganisation that can be characterised precisely in the CEQ's terms.

The core neurological finding is the pattern of reduced long-distance connectivity combined with increased short-distance connectivity. This pattern is not random — it describes a specific structural alteration of the type of connectivity the Knowledge path instantiates. The Knowledge path is the most distinctively long-distance of the four hidden paths: it crosses the Abyss between Atziluth and Yetzirah, connecting the right hemisphere's most global, contextual, and distributive mode of comprehension (Binah) with the right DLPFC's executive function (Chesed). It is, in the language of network neuroscience, a long-range inter-regional connection carrying the most distributed form of cortical processing to an executive endpoint.

CORE NEUROSCIENCE Children with ASD show reduced amygdala-prefrontal functional connectivity when viewing emotional faces and when at rest. The most pronounced disruptions in high-functioning adolescents with ASD are between limbic-related brain areas involved in affective processing, particularly the amygdala and vmPFC. A critical distinction: ASD is characterised by decreased long-distance global connections and increased short-distance local connections — ASD-related behavioural symptoms are related to this specific connectivity topology. Early developmental dysfunction in medial temporal lobe structures in ASD may cause a delayed maturation of the dorsolateral prefrontal cortex, suggesting the Knowledge path's developmental timeline is altered. (Sources: Chen et al. 2024; Gotts et al. 2012 via Bachevalier review 2024; Just et al. 2007.)

## **5.2 What the Topology Change Means Functionally**

In the CEQ framework, the Knowledge path's function is to carry the Spirit's encircling comprehension — the Gihon's broad movement surrounding the whole land — from the supernal register into the right executive faculty. The Gihon is specifically characterised by its encircling, globally-attending quality: it surrounds the whole land of Cush rather than flowing in a single direction. This is precisely the right hemisphere's broad, contextual, peripheral-attending mode — McGilchrist's Master, the mode that apprehends the whole before the parts.

When the Knowledge path is topologically reorganised in the direction of reduced long-distance global connectivity with increased local connectivity, the Gihon's encircling movement is altered: instead of distributing the Spirit's comprehension broadly across the whole contextual field, it deepens it intensely within specific domains. The result is a Knowledge path that carries profound depth of comprehension in particular areas — the intense systematic knowledge of specific domains, the exceptional pattern-recognition within chosen fields, the extraordinary contextual precision within a defined territory — but reduced breadth of the Gihon's encircling reach across the full social-emotional contextual field.

This is not privation of the Knowledge path's being. It is a different mode of its operation — as if the Gihon, rather than encircling a vast land broadly, were cutting a very deep channel through a specific terrain. The water is the same water; the movement is differently shaped.

## **5.3 The Social-Emotional Profile in Knowledge Path Terms**

The social comprehension differences that characterise autism are the Knowledge path's specific functional expression in its reorganised topology. Social comprehension in neurotypical experience is primarily a Knowledge path function: the Spirit's broad contextual encircling enables the right hemisphere to apprehend another person as a whole contextual being — their emotional state, their relational history, their unspoken communication, their position within the social context — simultaneously and without deliberate analytical effort. This is the Gihon's broad encircling: social understanding as a holistic contextual comprehension.

When the Knowledge path's long-distance topology is reorganised, this simultaneous holistic social comprehension is reduced — not because social understanding is absent but because the broad encircling quality of the Gihon is narrowed. Social understanding in autism tends to require more deliberate analytical effort (the Will path's analytical precision filling in for the Knowledge path's intuitive contextual sweep), more time, and more explicit information than it does in neurotypical processing. This is not a deficit of intelligence or of genuine care for others — it is a topological difference in how the Spirit's comprehension is delivered to the executive faculty.

#### **5.4 The Will Path in Autism: Precision Without Contextual Moderation**

Because the Knowledge path's broad contextual moderation of the right DLPFC is reduced, the Will path's analytical executive function tends to operate with less contextual tempering than it receives in neurotypical processing. The Will path (Chokmah → Geburah, Logos ordering the analytical executive) is often well-functioning in autism — sometimes exceptionally so. The result is a characteristic profile of precise, systematic, analytically rigorous executive action that may be structurally correct but contextually misaligned: the Will path operating at full capacity without receiving adequate contextual framing from the Knowledge path's reduced right-hemisphere governance.

This is the specific neurological basis of the social difficulties that arise not from lack of desire for social connection but from executing social interaction through the Will path's analytical precision without the Knowledge path's simultaneous contextual comprehension. The person with autism is not failing to will social engagement — they are willing it through the analytical will rather than through the contextual faith that the Knowledge path carries.

#### **5.5 Contemplative Implications: Supporting the Topology, Not Correcting It**

The practical implication of the topology framework is that the contemplative practices for autism should not aim to force the Knowledge path toward neurotypical broad contextual distribution. That is neither possible nor desirable. The Gihon flows as it flows; the Spirit comprehends through the Knowledge path's actual topology in each person, and that topology in autism is not less valid than neurotypical topology — it is differently shaped.

What the contemplative practices can appropriately offer is support for the Knowledge path's own operation within its actual topology. Specifically:

The Encircling Vision practice (peripheral soft-focus attention) can expand the contextual field of the Knowledge path's reach within the autistic topology. The practice does not attempt to override local specialisation with forced global distribution — it cultivates the broadest available form of the right hemisphere's contextual attention within the individual's own attentional organisation. For some autistic individuals this may produce experiences of broad contextual comprehension that are qualitatively different from their usual mode; for others it may primarily deepen the focus within their specialised domains. Both are valid expressions of the Knowledge path's operation.

The Courage practice (Open River) addresses the Yesod overload that frequently accompanies autism's reorganised Knowledge path. When Yesod's social-emotional sensory inputs exceed the contextual integration that the Knowledge path's topology can provide, the Foundation generates overload rather than integrated emotional processing. The Courage practice's deliberate entry into the Foundation's present-moment content — named simply, held in the right DLPFC's accepting mode — provides direct Veil-crossing contact without requiring the full contextual comprehension that the Knowledge path's broad encircling would provide. Courage can enter what Knowledge has not yet fully encircled.

The morning Knowledge invocation is particularly important: priming Binah's encircling Spirit at the start of each day, before the day's social-contextual demands engage the reorganised Knowledge path, provides a daily orientation toward the fullest available expression of the path's function. The prayer does not ask the Knowledge path to be other than it is — it asks for the Spirit's guidance as it is, in whatever topology it takes in the individual soul.

**RESEARCH NOTE** The topology framework predicts that autistic individuals using the Encircling Vision practice will show a different pattern of benefit than neurotypical users. Specifically: neurotypical users should show reduction in hypervigilance and right amygdala reactivity (consistent with recovering the Knowledge path's broad contextual governance from amygdala capture). Autistic users should show different effects — potentially increased domain-focused comprehension depth rather than broadened contextual distribution, or expanded peripheral attention within their existing attentional topology. fMRI studies comparing the Encircling Vision practice's neural effects in autistic versus neurotypical participants, with right DLPFC-right hemisphere connectivity as the primary outcome, would directly test the topology prediction.

## **VI. Comorbidity Patterns Predicted by the Path Framework**

### **6.1 Why the Path Framework Predicts Comorbidity**

If the four conditions represent specific modes of failure of specific paths, then the comorbidity patterns among them — and between them and other conditions — should follow predictable logic based on the relationships among the paths. Conditions that share a failed path should show higher comorbidity than conditions whose failed paths are structurally independent. Conditions whose failed paths have cascading relationships (one path's failure increases another's vulnerability) should show specific asymmetric comorbidity patterns.

| Condition A | Condition B | Shared Path Mechanism                                                              | CEQ Explanation of Comorbidity                                                                                                                                                                                                                                                                                                                                                    |
|-------------|-------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PTSD        | OCD         | Both involve ascending Silence path (P) dysfunction                                | PTSD: Silence overwhelmed by Yesod trauma content. OCD: Silence captured in compulsive loop. Both present as intrusive content driving the left executive system, but via different mechanisms — passive overwhelm vs. active misfiring.                                                                                                                                          |
| ADHD        | Anxiety     | Weak Abyss-crossings (E, H) reduce reserve capacity of Veil-crossings (M, P)       | Structural weakness of Will and Knowledge paths (ADHD) means less catecholamine support reaches Chesed and Geburah, leaving the Courage and Silence paths more vulnerable to ascending Yesod pressure. The ADHD brain exhausts its regulatory reserves compensating for weak supernal input, and has diminished capacity for Silence and Courage when limbic demands arise.       |
| Autism      | Anxiety     | Reorganised Knowledge path leaves Yesod inputs insufficiently contextualised       | The Knowledge path's reduced long-distance reach means that Yesod's social-emotional inputs receive less contextual governance from the right hemisphere, generating persistent Silence and Courage path demand. The Foundation's sensory and social processing exceeds what the reorganised Knowledge path can contextually integrate, producing chronic Veil-crossing overload. |
| PTSD        | Depression  | Both involve Silence path structural degradation and Temperance circuit disruption | PTSD's chronic ascending Silence dominance degrades the left DLPFC-amygdala white matter tract (the Silence path) and simultaneously weakens the vmPFC-OFC Temperance circuit (the mediated solar route through Tiphareth). This is the same circuit profile as major depression, explaining the very high PTSD-MDD comorbidity.                                                  |

## 6.2 Three Additional Observations

First: the very high comorbidity between PTSD and major depressive disorder (MDD) is explained by the shared Silence path structural degradation. Both PTSD and MDD are characterised by reduced left DLPFC activation and weakened vmPFC-amygdala inhibitory connectivity. In CEQ terms, both involve the Silence path's descending direction failing — in PTSD through traumatic overwhelm and in MDD through chronic ascending amygdala dominance and the anhedonic loss of the Temperance circuit's solar warmth. PTSD and MDD are, in the CEQ framework, the same Silence-path failure reached by different routes.

Second: the comorbidity between OCD and ADHD — which is clinically documented but less commonly discussed — is explained by the Will path's involvement in both. ADHD weakens the Will path's descending signal strength (catecholamine deficit at the Chokmah→Geburah axis); OCD captures the Will path's ascending direction through amygdala-driven intrusive thought. Both involve the Will path's dysregulation, and having one increases vulnerability to the other: ADHD's weak Will path makes it easier for the amygdala's ascending capture to take hold (OCD's mechanism); OCD's compulsive capture of the analytical will further depletes the catecholamine reserves that ADHD has already reduced.

Third: the co-occurrence of autism and ADHD — now recognised as extremely common — reflects the specific relationship between the Knowledge path (reorganised in autism) and the Will path (underpowered in ADHD). Both paths are Abyss-crossings, and both serve as the supernal priming of the two DLPFC executive faculties. When both are simultaneously affected — the Knowledge path topologically reorganised and the Will path catecholamine-deficient — the result is a profile in which neither executive faculty receives adequate supernal support, producing the combined presentation's characteristic intensity of both the Knowledge path's domain-specific depth and the Will path's initiation-and-sustained-attention difficulties.

## VII. Pharmacology Confirms the Path Mapping

The medications effective for these conditions provide an independent confirmation of the CEQ's path mapping. If each condition represents a failure at a specific level of the hidden path system, then the effective medications should act specifically on the neurochemical substrate of that level. This prediction is confirmed:

| Condition | Medication Class                          | Neurological Action                                                | CEQ Path                 | CEQ Interpretation                                                                                                                                                                                                                                                                          |
|-----------|-------------------------------------------|--------------------------------------------------------------------|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ADHD      | Stimulants (methylphenidate, amphetamine) | Increase dopamine and norepinephrine in PFC via DAT/NET inhibition | E (Will) + H (Knowledge) | Directly strengthen catecholamine signal strength of both Abyss-crossing paths. Stimulants provide what the structurally weak Will and Knowledge paths cannot consistently generate — sufficient chemical signal to sustain the descending Logos-to-Geburah and Spirit-to-Chesed influence. |

| Condition | Medication Class                         | Neurological Action                                                      | CEQ Path                        | CEQ Interpretation                                                                                                                                                                                                                                                                                                                                                       |
|-----------|------------------------------------------|--------------------------------------------------------------------------|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ADHD      | Non-stimulants (atomoxetine, guanfacine) | Selective NE reuptake inhibition (ATX); $\alpha 2A$ agonism in PFC (GFC) | E (Will) primarily              | Guanfacine's $\alpha 2A$ agonism specifically strengthens left DLPFC network connectivity — directly targeting the Will path's executive endpoint. Atomoxetine's NE effect in the PFC supports both paths but with more selective Will-path engagement.                                                                                                                  |
| OCD       | SSRIs                                    | Increase serotonergic tone in OFC-striatal-thalamic loop                 | P (Silence) — mediating circuit | SSRIs modulate the serotonergic system governing OFC-striatal compulsive loop tone. In CEQ terms they restore the proper separation between the Silence path's genuine executive quieting and the OFC loop's compulsive-Silence mimicry. They do not directly strengthen the Will path — which is why SSRIs reduce compulsions more effectively than intrusive thoughts. |
| PTSD      | SSRIs / SNRIs                            | Serotonergic and noradrenergic modulation of PFC-amygdala circuits       | P (Silence) + M (Courage)       | Partially restore PFC inhibitory tone over amygdala (Silence path) and reduce amygdala hyperreactivity (supports Courage path's contextual modulation). Effect is partial — addressing the biochemical environment rather than restoring the structural white matter degradation that chronic PTSD produces.                                                             |

## **7.1 The Significance of the Pharmacological Confirmation**

The pharmacological pattern is not trivial. ADHD medications strengthen catecholamine signalling in the PFC — exactly the chemical substrate of the Abyss-crossing paths' descending signal. OCD medications modulate serotonergic tone in the OFC-CSTC circuit — exactly the circuit that captures the Silence path's executive output in the compulsive loop. PTSD medications modulate the amygdala-PFC balance — exactly the Veil-crossing paths' ascending-descending dynamic. Each medication class acts on the level at which the CEQ framework locates the primary pathology of the corresponding condition.

This means that the contemplative practices and the pharmacological treatments are addressing the same underlying path dynamics through different means. The Will prayer and stimulant medication are both strengthening the Chokmah-to-Geburah axis — one through intentional-spiritual activation of the descending direction, the other through chemical support of the catecholamine signal the descending direction requires. They are not alternatives but complementary approaches to the same underlying reality. The contemplative practices work at the level of the soul's orientation toward its source; the medications work at the level of the neurochemical substrate that instantiates that orientation in the created-dimensional brain.

The CEQ framework therefore does not oppose pharmacological treatment for these conditions — on the contrary, it predicts that effective medication will align with the specific path mechanisms identified, and that the contemplative practices will be most effective when the neurochemical substrate is adequately supported. For ADHD particularly, the morning Will and Knowledge invocations are likely to be most effective when the catecholamine baseline is supported by medication, since the practices are attempting to activate paths whose chemical substrate is structurally deficient.

## **VIII. Modifications to the Contemplative Practices for Each Condition**

### **8.1 General Principles**

The practices described in CEQ Addendum I are the baseline practices for all four hidden paths without specific condition modifications. This section describes the specific adaptations required for each condition, drawing on the path analyses developed above. The modifications are not replacements for the baseline practices but refinements of their deployment.

#### **For PTSD: Sequence Is Everything**

The baseline practices are all appropriate for PTSD, but their sequence is non-negotiable. Courage must precede Silence in every session engaging PTSD-related content. Specifically: Knowledge practice (2–3 minutes) → Courage practice (5–10 minutes) → Silence practice (5–10 minutes) → Will prayer (closing). Never begin with Silence in a PTSD context — it will produce sophisticated

avoidance rather than genuine quieting. The Courage practice must establish voluntary entry into the Foundation's content before the Silence practice's inhibitory work can take hold. Additionally, the Courage practice for PTSD should be extended to include a specific 'contextual anchoring' step: after naming what is present (Stage 2 of the Open River practice), briefly locate the present moment in time and place before proceeding to Stage 3. This addresses the hippocampal temporal-context failure that underlies intrusive re-experiencing.

### **For OCD: Deployment Timing Is Everything**

The Will prayer is deployed at the moment of intrusive thought, not in response to distress about the thought. The Silence practice is deployed at the moment of compulsive urge, not in response to the intrusive thought. This separation of the two deployments is critical: the intrusive thought triggers the Will prayer; the compulsive urge (the drive to perform the ritual) triggers the Silence practice. Deploying the Silence practice in response to the intrusive thought is likely to produce a more elaborate form of the compulsive-Silence dynamic rather than addressing it. The Will prayer redirects the verbal-analytical system's orientation before the compulsive response cycle has a chance to initiate; the Silence practice then addresses the urge itself when it arises. Practitioners should expect the urge to perform the compulsion to increase briefly after the Silence practice begins — this is the ascending Silence path's resistance to the descending practice's activation, and is the expected signature of genuine Silence practice working rather than a sign that it is failing.

### **For ADHD: Morning Priming Is the Foundation**

The morning Will and Knowledge invocations are the most important structural practice for ADHD — more important in daily deployment than the Courage and Silence practices. The morning priming addresses the catecholamine baseline deficit at the start of the day when neurochemical availability is at its most malleable. Specifically: the Will prayer should be spoken aloud (activating Broca's area's motor-speech mode) and should be followed immediately by a concrete statement of the day's primary intention in a single word or phrase. This is the Word Before Action practice deployed at the day-scale rather than the task-scale. The Knowledge practice should use the full peripheral-attention Stage 1 (softened eyes, 5 minutes) before the day's demands begin. For ADHD specifically, the evening version should include a brief Word Before Tomorrow practice: stating the next morning's primary intention in a single word the night before, to prime the Will path's initiation circuit in advance of the morning's catecholamine vulnerability window.

### **For Autism: Topology Support, Not Correction**

The Encircling Vision practice should be offered without prescription of what its outcome 'should' feel like. Autistic practitioners may experience the peripheral attention mode very differently from neurotypical practitioners — it may produce different sensory qualities, different degrees of comfort or discomfort, different perceptual effects. All of these are data about the Knowledge path's topology in that individual and should be treated as such rather than as deviations from a

normative experience. The practice should be framed explicitly as supporting the Knowledge path's own operation in whatever form it takes, not as training toward a neurotypical standard of contextual comprehension. The Courage practice is particularly valuable as a complement, since it provides direct Veil-crossing contact with the Foundation's content without requiring the full contextual comprehension the Knowledge path's reorganised topology may not deliver in social-emotional contexts. The Will prayer should be offered as an explicit orientation of the analytical-executive faculty toward the Logos as its proper source — this is particularly relevant for autism because the Will path is often operating at high intensity without the Knowledge path's contextual moderation, and the prayer provides the supernal orientation that balances the analytical will's precision with the Logos's own ordering wisdom.

## **IX. Research Agenda for the Conditions Framework**

### **9.1 Empirical Questions**

PTSD sequence prediction: Does a Courage-before-Silence protocol for PTSD show better outcomes than a Silence-before-Courage protocol on extinction learning measures? The CEQ framework makes a specific structural prediction that can be tested in a randomised design.

OCD mechanism distinction: Does the genuine Silence practice (pre-verbal out-breath) produce different neural engagement — specifically, direct left DLPFC-to-amygdala effective connectivity rather than OFC-striatum-thalamus loop activation — compared to OCD compulsions? fMRI effective connectivity comparison of the two conditions would test the claim that the compulsion and the genuine practice are neurologically distinct despite phenomenological similarity.

ADHD morning priming: Does a morning Will + Knowledge invocation protocol, sustained for 8 weeks, produce measurable improvement in sustained attention and emotional regulation in adult ADHD, compared to an active control? What is the additive effect when the protocol is combined with standard pharmacological treatment versus used alone?

Autism topology prediction: Do autistic practitioners show different patterns of benefit from the Encircling Vision practice than neurotypical practitioners — specifically, deepened domain-focused comprehension rather than broadened contextual distribution — and does this difference correlate with individual measures of long-distance connectivity at baseline?

Comorbidity cascade: Is the ADHD-anxiety comorbidity mediated by reduced catecholamine support for the Courage and Silence paths, as predicted? Specifically: does ADHD-medication treatment reduce the severity of comorbid anxiety by strengthening the catecholamine substrate that the Courage and Silence paths require? This is directly measurable in treatment studies.

## 9.2 Theological-Empirical Questions

Does the framing of PTSD recovery as a four-path sequential restoration — Knowledge contextual repair, Courage re-entry, Silence extinction support, Will and Knowledge supernal re-orientation — improve therapeutic outcomes when provided as an explicit structural map to the person in treatment? Therapeutic alliance and conceptual framing research would address this.

Is the contemplative practice most effective when the neurochemical substrate is pharmacologically supported, as predicted by the complementarity of practices and medications? A three-arm study (practices alone, medication alone, combined) for each condition would address this.

Does the topology framing of autism — explicitly rejecting the language of deficit in favour of the language of different topology — improve the therapeutic alliance and personal sense of coherence for autistic practitioners using the Knowledge path practices? Qualitative and quantitative outcome measures specifically designed for autistic participants would address this.

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