



LOG ID	BOOK REFERENCE	RCT FILTER	CONFIDENCE TIER
SEC 12.3.2	CHAPTER 12: DATA SOVEREIGNTY & GLOBAL OS (Production Environment)	ON	CONSENSUS

AUDITED CLAIM

DEPRECATING "SUDO ADMIN" (DOWN-REGULATING DMN)

SYSTEMS MODEL — AS STATED IN THE BOOK

Clinically, functional MRI (fMRI) scans show that during states of deep meditation or the administration of psychedelics, the functional connectivity, activation, and network integrity of the **Default Mode Network (DMN)** significantly plummet.

VALIDATION QUERY

Do interventions such as deep meditation, psychedelic administration, or induced experiences of profound awe significantly reduce blood flow and metabolic activity in the brain's Default Mode Network (DMN)?

EMPIRICAL FINDING

Current neurobiological and pharmacological models confirm that interventions such as deep meditation and the administration of psychedelics (e.g., psilocybin, LSD) significantly alter the brain's **Default Mode Network (DMN)**. These states reliably produce a measurable reduction in DMN **functional connectivity**, activation (BOLD signal), and overall network integrity, physically decoupling the neural circuitry responsible for self-referential processing and egoic identity.

PRIMARY ANCHORS

- Brewer et al., 2011, Proceedings of the National Academy of Sciences
- Avram et al., 2024, Molecular Psychiatry

ABOUT THIS RECORD

Each claim in the book is decompiled from its IT metaphor into a naked, falsifiable scientific claim, then anchored to a **primary peer-reviewed source**. Claim and anchor are queried against the Consensus academic database (200M+ papers) under a fixed protocol — top-tier **Q1/Q2 journals only**, preprints excluded, human studies only. If a hypothesis fails the audit, the build is rejected: the AI generates the syntax; the peer-reviewed grid validates the physics.

CONFIDENCE TIERS

- CONSENSUS** ◀ **this log** — broadly established, highly replicated mechanics.
- EMERGING** — plausible, actively researched; no universal consensus yet.
- EXPERIMENTAL** — contested, extrapolated, or purely theoretical.

RCT FILTER — Controlled Studies is ON for interventions (a forced action must beat a control) and OFF for mechanisms (so foundational neuroscience isn't blocked).

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Yes, deep meditation and psychedelics often reduce DMN activity, but direct blood-flow and metabolic evidence is stronger for psychedelics than awe.

1. Introduction

Across this corpus, interventions that alter self-referential processing generally do reduce activity or integrity within the brain's default mode network (DMN), but the answer depends on which outcome is measured. Meditation studies most consistently show lower BOLD activation, lower within-DMN connectivity, or stronger task-related DMN suppression during practice, especially in posterior cingulate and medial prefrontal regions (Brewer et al., 2011; Garrison et al., 2015; Hehr et al., 2022). Psychedelic studies also repeatedly show reduced within-DMN connectivity or integrity under psilocybin, LSD, ayahuasca, DMT-like states, and related compounds, often alongside ego-dissolution or altered self-processing (Tolle et al., 2023; Avram et al., 2024; Pasquini et al., 2019).

The more specific claim about **blood flow and metabolic activity** has narrower support. Psilocybin directly reduces absolute cerebral blood flow across broad cortex and is linked to reductions in relative CBF associated with subjective effects, while earlier work cited in this corpus ties psychedelic self-altering effects to reduced mPFC/PCC blood flow (Lewis et al., 2017; Rieser et al., 2023; Lord et al., 2024). By contrast, most meditation papers rely on BOLD, EEG, or connectivity rather than direct perfusion or glucose-metabolism measures, so they support DMN suppression more strongly than literal reductions in blood flow or metabolism (Bauer et al., 2019; Pagnoni, 2012; Berkovich-Ohana et al., 2012). Evidence for awe specifically is weak in this corpus; nearby constructs such as nature exposure alter DMN coupling without showing clear DMN down-metabolism (Van Praag et al., 2017).

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FIGURE 1 Consensus on DMN reduction across interventions

2. Methods

The search ran over more than 170 million research papers indexed in Consensus, drawing from Semantic Scholar, PubMed, and other sources. The workflow identified 129 unique relevant papers after deduplication and machine-learned screening, and 50 were included for this deep-search synthesis. Included studies were human and controlled where possible, with emphasis on neuroimaging measures relevant to DMN activity, connectivity, perfusion, and metabolism.

Search Strategy

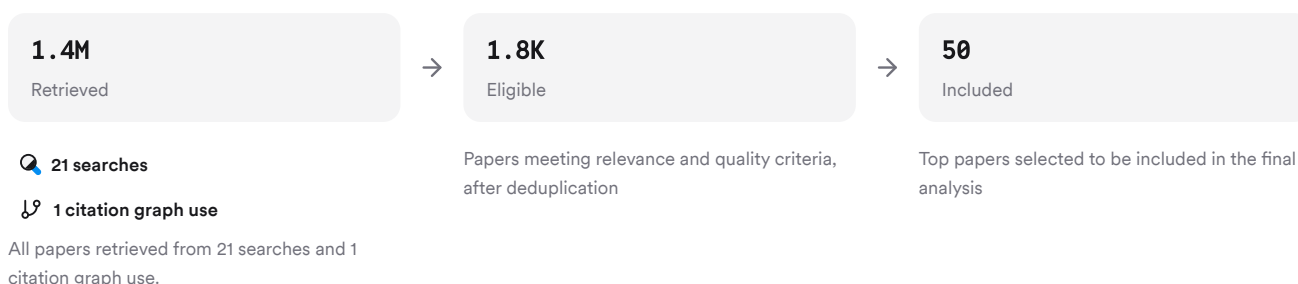


FIGURE 2 Deep search screening and inclusion flow

Searches combined intervention terms, altered-consciousness constructs, and DMN outcomes across activity, connectivity, perfusion, and metabolism.

3. Results

3.1 Key Papers

A small set of studies anchors the literature because they directly test DMN changes during meditation or psychedelics with controlled neuroimaging designs and are repeatedly echoed by later work (Brewer et al., 2011; Garrison et al., 2015; Avram et al., 2024).

Paper	Summary
(Garrison et al., 2015)	Experienced meditators show DMN deactivation across meditation types (Brewer et al., 2011)
(Pasquini et al., 2019)	Meditation lowers DMN activity beyond active tasks (Garrison et al., 2015)
(Lord et al., 2024)	LSD uniquely reduces DMN integrity versus placebo (Avram et al., 2024)

FIGURE 3 Foundational papers anchoring the DMN literature

3.2 Meditation Findings

Meditation evidence is strongest for reduced DMN activation or connectivity during practice, not for direct metabolic shutdown. Experienced meditators showed relative deactivation of mPFC and PCC across concentration, loving-kindness, and choiceless-awareness meditation (Brewer et al., 2011). A larger follow-up study found lower DMN-region activity during meditation even relative to another active cognitive task, arguing that the effect is not just generic task engagement (Garrison et al., 2015). Other paradigms replicate reduced posterior cingulate or precuneus coupling during meditation, yoga nidra, pain-focused mindfulness, and pediatric breath-based meditation (Panda et al., 2016; Fialoke et al., 2024; Riegner et al., 2022; Hehr et al., 2022).

Still, meditation effects are not uniformly decreases. One study found trait reductions in DMN activity and connectivity but state increases during and just after meditation, suggesting that “meditation” effects depend on whether investigators compare long-term trait organization, momentary practice state, or rebound periods (Bauer et al., 2019). Resting-state studies also report increased DMN connectivity in some meditators or after mindfulness training, especially involving DMN links to salience or control networks (Jang et al., 2011; Bremer et al., 2022; Berkovich-Ohana et al., 2014).

3.3 Psychedelic Findings

Dimension	Psilocybin	LSD	Ayahuasca	Citations
Within-DMN connectivity	Reduced within-DMN connectivity	Reduced DMN integrity	Reduced PCC connectivity in DMN	(Tolle et al., 2023; Avram et al., 2024; Pasquini et al., 2019)
Blood flow / perfusion	Absolute perfusion reduced broadly	Low-dose EEG desynchronization, not perfusion	No direct perfusion result here	(Lewis et al., 2017; Murray et al., 2021)
Self-related effects	Ego dissolution linked to mPFC-PCC decoupling	DMN decrease linked to less past-oriented mentation	DMN decrease linked to altered volition	(Smigielski et al., 2019; Speth et al., 2016; Pasquini et al., 2019)

Dimension	Psilocybin	LSD	Ayahuasca	Citations
Broader network effect	DMN-limbic down, attention links up	Segregation decreases pronounced	SN-DMN coupling increases	(Tolle et al., 2023; Avram et al., 2024; Pasquini et al., 2019)

FIGURE 4 Psychedelic effects on DMN-related measures

Psychedelic evidence more directly supports the user's phrasing about reduced blood flow. Psilocybin reduced absolute perfusion in frontal, temporal, parietal, and cingulate regions, and later ASL work found psilocybin-induced reductions in relative CBF that tracked baseline features and subjective experience (Lewis et al., 2017; Rieser et al., 2023). Connectivity findings are also consistent across drugs: LSD reduced DMN integrity, psilocybin reduced within-DMN effective connectivity, ayahuasca decreased PCC connectivity within the DMN, and salvinorin A attenuated the DMN during peak effects (Avram et al., 2024; Stoliker et al., 2024; Pasquini et al., 2019; Doss et al., 2020).

3.4 Gaps and Boundary Cases

Direct evidence for **metabolic activity** in the strict PET or glucose-uptake sense is limited for these interventions. The corpus includes disease and consciousness studies showing that DMN metabolism covaries with DMN connectivity, such as reduced glucose metabolism across DMN nodes in Parkinson's disease and consciousness-level-dependent increases in DMN connectivity with metabolism in disorders of consciousness (Ruppert et al., 2021; Perri et al., 2016). Those papers support the plausibility that reduced DMN connectivity can reflect reduced metabolic engagement, but they do not test meditation or awe interventions directly (Ruppert et al., 2021; Perri et al., 2016).

The awe portion remains the weakest part of the question. No included study directly tests profound awe while measuring DMN blood flow or metabolism. The closest paper on naturalistic sounds found altered DMN functional coupling and increased parasympathetic tone, but not increased or decreased DMN activity between naturalistic and artificial conditions (Van Praag et al., 2017).

Results Timeline

DMN intervention research has moved from baseline activity contrasts to network-level and multimodal mechanistic studies.

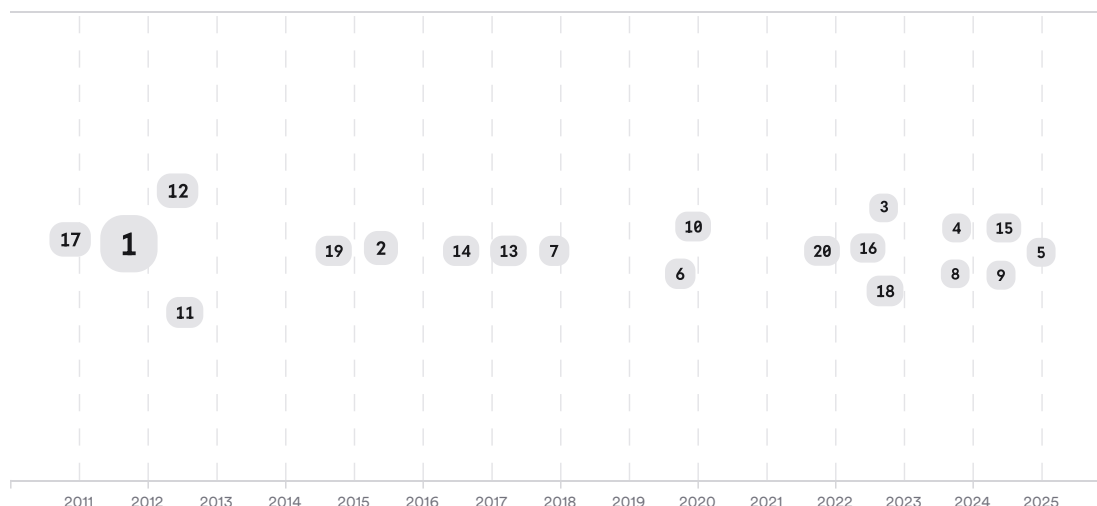


FIGURE 5 Timeline of DMN intervention studies, larger markers indicate more citations

Early studies established that meditation and psychedelics alter DMN activation and connectivity, while recent work adds ASL perfusion, effective connectivity, multimodal EEG-fMRI, and network-integration analyses (Pagnoni et al., 2008; Speth et al., 2016; Lewis et al., 2017; Stoliker et al., 2024).

Top Contributors

Type	Name	Papers
Author	J. A. Brewer	[b8b55c6ea1b85f5ba4f6aecfd7520ece][2a820658783f592180f39a4c34c4920c]
Author	F. Vollenweider	[b7b7120180ef510792a8ffd55bf56268][6dba3a6b0c225ec3823523dfcfdcd630] [01122853bca25e378237db45468277bd][1620055b69885da7ab997114b4754188]
Author	K. Preller	[06411c38f1ed53eb8e9d48f33184d01a][6dba3a6b0c225ec3823523dfcfdcd630] [01122853bca25e378237db45468277bd][1620055b69885da7ab997114b4754188]
Journal	<i>NeuroImage</i>	[b7b7120180ef510792a8ffd55bf56268][6dba3a6b0c225ec3823523dfcfdcd630] [47e36839dfa55fad80286d72d729d33f]
Journal	<i>Proceedings of the National Academy of Sciences</i>	[b8b55c6ea1b85f5ba4f6aecfd7520ece][58a594e548a55d4c879fa84e4ebd7a35] [0207fa50c0f85066bb50aebfade1f348]
Journal	<i>Biological Psychiatry</i>	[01122853bca25e378237db45468277bd][58f6c639d8885aab81952d4496aad65e] [1620055b69885da7ab997114b4754188]

FIGURE 6 Authors and journals appearing most often

4. Discussion

The strongest conclusion is that both meditation and psychedelic administration commonly **disrupt or suppress DMN function**, but the exact neural readout varies by method. Meditation studies are numerous and replicated across task fMRI, resting-state connectivity, EEG, and special paradigms, and many converge on reduced PCC/mPFC engagement or reduced intra-DMN coupling during practice (Brewer et al., 2011; Garrison et al., 2015; Berkovich-Ohana et al., 2014). That supports a moderate-to-strong claim about reduced DMN functional activity during meditative states.

The claim becomes weaker when translated into **reduced blood flow and metabolic activity**. Most meditation studies do not measure perfusion or glucose metabolism directly, and one explicitly notes that BOLD is only an indirect hemodynamic proxy (Bauer et al., 2019). Psychedelic studies provide better direct support because ASL studies show reduced absolute perfusion under psilocybin, and multiple connectivity studies show DMN disintegration under psilocybin, LSD, ayahuasca, and salvinorin A (Lewis et al., 2017; Avram et al., 2024; Doss et al., 2020).

A second limitation is heterogeneity. Some meditation studies report increased DMN connectivity at rest or stronger DMN interactions with salience or control networks, meaning “reduction” is not universal and may depend on meditation style, experience level, task context, or whether the outcome is within-network integrity versus cross-network coordination (Fialoke et al., 2024; Bremer et al., 2022; Jang et al., 2011). The awe literature is the least developed here, so the corpus does not justify a strong claim for awe-induced DMN hypoperfusion or hypometabolism.

Claim	Evidence Strength	Reasoning	Papers
Meditation often reduces DMN activation/connectivity during practice	 Strong	Replicated across multiple human neuroimaging paradigms, though not all meditation styles agree.	(Brewer et al., 2011; Garrison et al., 2015; Fialoke et al., 2024)

Claim	Evidence Strength	Reasoning	Papers
Psychedelics often reduce within-DMN integrity/connectivity	 Strong	Convergent across psilocybin, LSD, ayahuasca, MDMA-like contrasts, and salvinorin A, with some drug-specific differences.	(Avram et al., 2024; Tolle et al., 2023; Pasquini et al., 2019)
Psychedelics can reduce cerebral blood flow/perfusion relevant to DMN-linked regions	 Moderate	Supported by ASL studies, but regional specificity to the whole DMN is not always isolated.	(Lewis et al., 2017; Rieser et al., 2023)
Meditation significantly reduces DMN metabolic activity in the strict glucose-metabolism sense	 Weak	Most meditation papers use BOLD/EEG/connectivity, not PET or direct metabolic assays in the DMN.	(Bauer et al., 2019; Pagnoni, 2012)
Profound awe significantly reduces DMN blood flow/metabolism	 Weak	This corpus contains no direct awe neuroimaging study showing that outcome.	(Van Praag et al., 2017)

FIGURE 7 Key claims and supporting evidence strength

5. Conclusion

The literature supports a qualified yes: deep meditation and psychedelic administration often reduce DMN functional activity, connectivity, or integrity, especially in hubs such as the PCC and mPFC. The evidence is strongest for **functional suppression/disintegration**, somewhat weaker for **direct blood-flow reduction**, and weakest for **direct metabolic reduction** and for **awe-specific effects** (Brewer et al., 2011; Lewis et al., 2017; Lord et al., 2024).

Research Gaps

The main gap is that intervention studies and metabolic studies are still only loosely connected. Direct perfusion and glucose-metabolism measures are rare for meditation and nearly absent for awe.

Topic/Outcome	Perfusion	Glucose Metabolism	Controlled Trials	Awe-Specific Human Studies
Deep meditation during practice	1	GAP	4	GAP
Psychedelic acute effects	3	GAP	5	GAP
Psychedelic subacute effects	1	GAP	2	GAP
Profound awe experiences	GAP	GAP	GAP	GAP

Open Research Questions

Direct multimodal studies are the clearest next step.

Question	Why
Do experienced meditators show reduced DMN glucose metabolism during deep meditation on FDG-PET or calibrated fMRI?	This would test whether repeated BOLD/connectivity suppression reflects true metabolic downregulation rather than only network reorganization.
Do experimentally induced awe states reduce DMN perfusion or only alter connectivity and autonomic tone?	Awe is the least supported part of the current question despite conceptual overlap with self-transcendent states.
Which psychedelic-induced DMN perfusion changes best predict ego dissolution and lasting clinical benefit?	Existing ASL and connectivity findings suggest biomarker potential, but regional specificity and treatment relevance remain unresolved.

Overall, these interventions do appear to reduce DMN function, but only psychedelics currently have solid direct evidence for reduced blood flow, and neither area has strong direct evidence for DMN metabolic suppression in the strict sense.

These search results were found and analyzed using Consensus, an AI-powered search engine for research. Try it at <https://consensus.app>. © 2026 Consensus NLP, Inc. Personal, non-commercial use only; redistribution requires copyright holders' consent.

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