

The SWEET Model at the Intersection of Cognitive Neuroscience, Psychology, and Psychoanalysis

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Published: September 12, 2025

Abstract

The fields of cognitive neuroscience, psychology, and psychoanalysis have traditionally operated in parallel, offering unique but often fragmented understandings of the mind. The SWEET Model integrates these disciplines within its Four-Layered Transformation framework—conscious, preconscious, unconscious, and existential—providing a comprehensive approach to mental health care. This article examines how the SWEET Model bridges theoretical and practical divides, enriching clinical interventions and advancing holistic understanding of human cognition and emotion.

Keywords

SWEET Model, SWEET Institute, cognitive neuroscience, psychology, psychoanalysis, layered transformation, integrative mental health

Introduction

Cognitive neuroscience has elucidated the brain's functioning and its relationship to behavior and cognition (Gazzaniga et al., 2018). Psychology offers models of mental processes and behavior change, while psychoanalysis delves into unconscious dynamics shaping experience (Freud, 1915/1957). These fields, while complementary, often lack an integrative framework. The SWEET Model provides such a framework by mapping layers of transformation that encompass neurological, psychological, and psychodynamic dimensions.

Theoretical Framework

The Four-Layered Transformation framework connects disciplines as follows:

- **Conscious Layer:** Aligns with cognitive neuroscience's focus on conscious awareness, executive functions, and explicit memory.
- **Preconscious Layer:** Corresponds with psychological constructs such as implicit memory and cognitive schemas (Beck, 1976).
- **Unconscious Layer:** Integrates psychoanalytic insights into unconscious motivations, defense mechanisms, and repression (Freud, 1915/1957).
- **Existential Layer:** Addresses meaning, identity, and self-actualization, linking to humanistic psychology (Maslow, 1968).

This layered view facilitates multidimensional assessment and intervention.

Application and Analysis

Clinicians applying the SWEET Model incorporate:

- Neuroscientific findings on brain plasticity and emotional regulation to inform conscious layer interventions (Siegel, 2007).
- Cognitive-behavioral strategies targeting maladaptive schemas at the preconscious level (Beck, 1976).
- Psychodynamic techniques to explore unconscious conflicts and transference (Shedler, 2010).
- Existential therapy approaches addressing meaning and purpose (Frankl, 1985).

This integration promotes comprehensive care tailored to complex patient needs.

Implications

The SWEET Model's integrative approach offers:

- Enhanced clinician flexibility across therapeutic modalities.
- A common language bridging neuroscience, psychology, and psychoanalysis.
- Improved patient engagement through multi-layered interventions.
- Opportunities for research that spans biological and psychological domains.

Conclusion

By synthesizing cognitive neuroscience, psychology, and psychoanalysis within a layered transformational framework, the SWEET Model advances mental health care toward more integrated, effective, and human-centered practice. This comprehensive approach honors the complexity of the mind and supports sustained healing and growth.

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