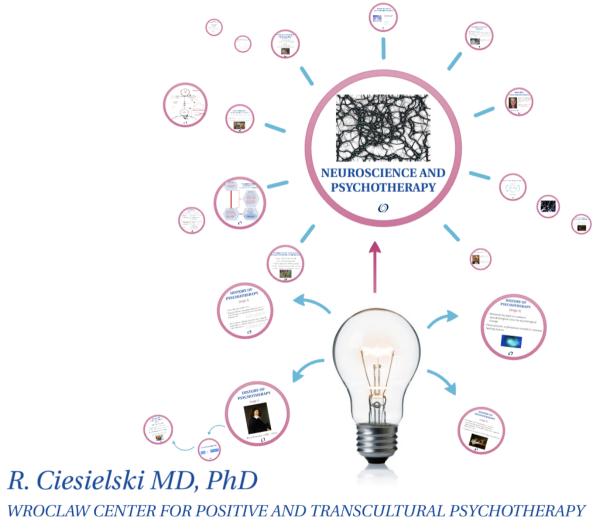
MIND AND BRAIN DISCOVERY.

WHAT NEUROSCIENCE HAS TO SAY ABOUT PSYCHODYNAMIC CONFLICTS?







(stage 1)



René Descartes (1596 – 1650)











Cartesian dualizm

MIND PSYCHOLOGICAL MODEL





(stage 1)

1. MEDICAL MODEL

- Empirical verification of diagnostic and treatment methods
- Scientific research and evidence-based practices

2. PSYCHOLOGICAL MODEL

- Charismatic therapists (supershrinks)
- Theory has no empirical evidence









(stage 2)

- Emergence and development of various psychotherapy schools (psychoanalitic, psychodynamic, humanistic,behavioral, cognitive-behavioral etc)
- Competition for priority (lack of objective evaluation)







(stage 3)

- Psychotherapy works !!! ()
- Research shows comparable effectiveness of psychotherapy irrespectively from theoretical background

How important are the common factors in psychotherapy? An update. Bruce E Wampold World Psychiatry. 2015 Oct; 14(3): 270–277.

The common healing factors (alliance, empathy, expectations, cultural adaptation, personality of a psychotherapist)

Evidence-based practice in psychology. APA Task

Force on Evidence-Based Practice. (2006). American Psychologist, 61, 271–285.

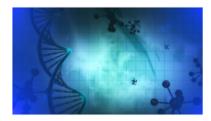






(stage 4)

- Research focused on common neurobiological roots for psychological change.
- Neuroscientic explanations instead of common healing factors.

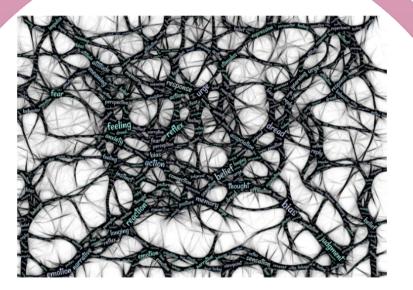












NEUROSCIENCE AND PSYCHOTHERAPY











Number — not ... (puttern)

Jels not carryly my need for
self-mellines. I do not get
except a factories. I do not get
except a factories. Accordance
and religions from cathering.

Jet can said to the product of the
pupilisationate or exceeding
that is no sended.

This is no year by the inhance
and except the research
that are sended.

9

MIND AND BODY UNITY



Intellectual Framework for Psychiatry Eric R.Kandel, M.D. (Am J Pchiatry 1998; 155:457-469)

Mind and brain are in mutual interactions

- All functions of mind reflect functions of brain
- Psycho- and pharmacotherapy may induce similar alterations in gene expression and structual changes in the brain

Eric Kandel
Nobel Prize (2000) in physiology or medicine







NEUROSCIENCE AND PSYCHOTHERAPY

neuroplasticity



neurogenesis





NEUROSCIENCE AND PSYCHOTHERAPY

- Implicit memory
- Target emotional memories
 - Memory reconsolidation







MEMORY RECONSOLIDATION



A memory reconsolidation is a process that can actually unwire and delete longstanding emotional conditioning held in implicit memory.

Memory reconsolidation is the only known form of neuroplasticity of the brain.

Bruce Ecker



RECONSOLIDATION WINDOW

Reconsolidation window.

After a target learning has been reactivated and mismatched, its neural circuits remain in a deconsolidated or labile state for about five hours, as demonstrated by a variety of animal and human studies.



(Duvarci & Nader, 2004; Pedreira, Pérez-Cuesta & Maldonado, 2002; Pedreira & Maldonado, 2003; Schiller et al., 2010; Walker, Brakefield, Hobson & Stickgold, 2003).



NEUROSCIENCE AND PSYCHOTHERAPY



Extinction is not reconsolidation

Memory reconsolidation is a fairly new process of unlocking, recoding and reorganizing the information in a memory, which allows the mind to form a more healthy version of the memory.

Symptoms extinction is the gradual weakening of a conditioned response that results in the behavior decreasing or disappearing.





Memory reconsolidation is a fairly new process of unlocking, recoding and reorganizing the information in a memory, which allows the mind to form a more healthy version of the memory.

Symptoms extinction is the gradual weakening of a conditioned response that results in the behavior decreasing or disappearing.



MEMORY RECONSOLIDATION AND NEW SCHOOLS OF PSYCHOTHERAPY

- Coherence therapy
- Interpersonal neurobiology (INB)
- Emotion focused psychotherapy (EFT)
 - EMDR
 - Ericsonian hypnotherapy
- Positive and transcultural psychotherapy ???





MEMORY RECONSOLIDATION AND NEW SCHOOLS OF PSYCHOTHERAPY

Assumptions:

- - (misconceptions/ behavioral-emotional patterns/ symptoms)
- - · Psychodynamic conflicts resolution
 - Dysfunction subsiding/symptom cessation



MEMORY RECONSOLIDATION PHASES

STEPS OF PROCESS FOR CLINICAL APPLICATION OF MEMORY RECONSOLIDATION Therapeutic Reconsolidation Process 1. Accessing sequence A. Symptom identification B. Retrieval of target learning (symptom-requiring schema) (preparation) C. Identification of disconfirming knowledge 2. Transformation A. Reactivation of symptom-requiring schema B. Activation of disconfirming knowledge sequence C. Mismatching symptom-requiring schema (repetitions) 3. Verification Observations of: A. Emotional non-reactivation B. Symptom cessation C. Effortless permanence



Memory Reconsolidation in Psychotherapy The Neuropsychotherapist Special Issue M. Dahlitz, G. Hall

PSYCHODYNAMIC/ INTRAPSYCHIC CONFLICT

• A mental struggle arising from the clash of incompatible or opposing impulses, wishes, drive, or external demands.

(https://medical-dictionary.thefreedictionary.com/)

- Psychoanalisys (Freud)
 A clash between superego (social marals and values) and id (biological drive: Eros, Thantos)
- Positive and Transcultural Psychotherapy (Peseschkian) Disbalance between social norms (secondary capabilities) and attachement needs (primary capabilities)





