

PSYCHOGENIC NON- EPILEPTIC SEIZURES

MANUALIZED TREATMENTS:
EVIDENCE-BASED AND NEW FRONTIERS

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WHEN, HOW, WHO?

- Treatment should start as soon as diagnosis is confirmed!
- Even if similar treatments were received before (for instance, previous CBT for depression), this time treatment will address a different problem and hence will have a different impact.
- Treatment may happen with an established therapist or a different provider: most important factor is to have a trusting relationship with a therapist who knows you, your condition and its treatment!
- And make sure that different providers are on the same page.

WHAT DOES IT MEAN THAT A TREATMENT IS MANUALIZED?

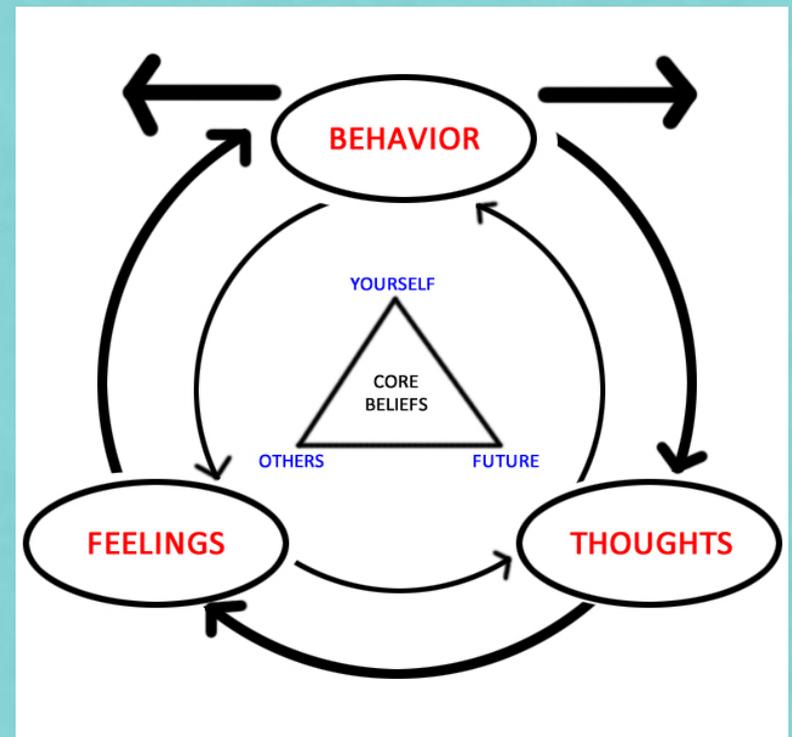
- It is based on a manual that follows similar principles throughout the treatment.
- Professionals can get trained on a manualized treatment and replicate treatment as originally intended to be delivered.
- A manualized treatment is easy to study in research, and hence, easy to determine its effectiveness.
- It tends to be short-term (usually 12-15 sessions) – but not set in stone.

ARE THERE MANUALIZED TREATMENTS FOR PNES?

- Yes!
- Cognitive-behavioral therapy (CBT) has been the most studied and validated form of psychological treatment in PNES. Some manuals are in the public domain.
- Mindfulness-based therapy (MBT) has been developed and is currently being studied, with some positive findings.

CBT (COGNITIVE BEHAVIORAL THERAPY): THE BASICS

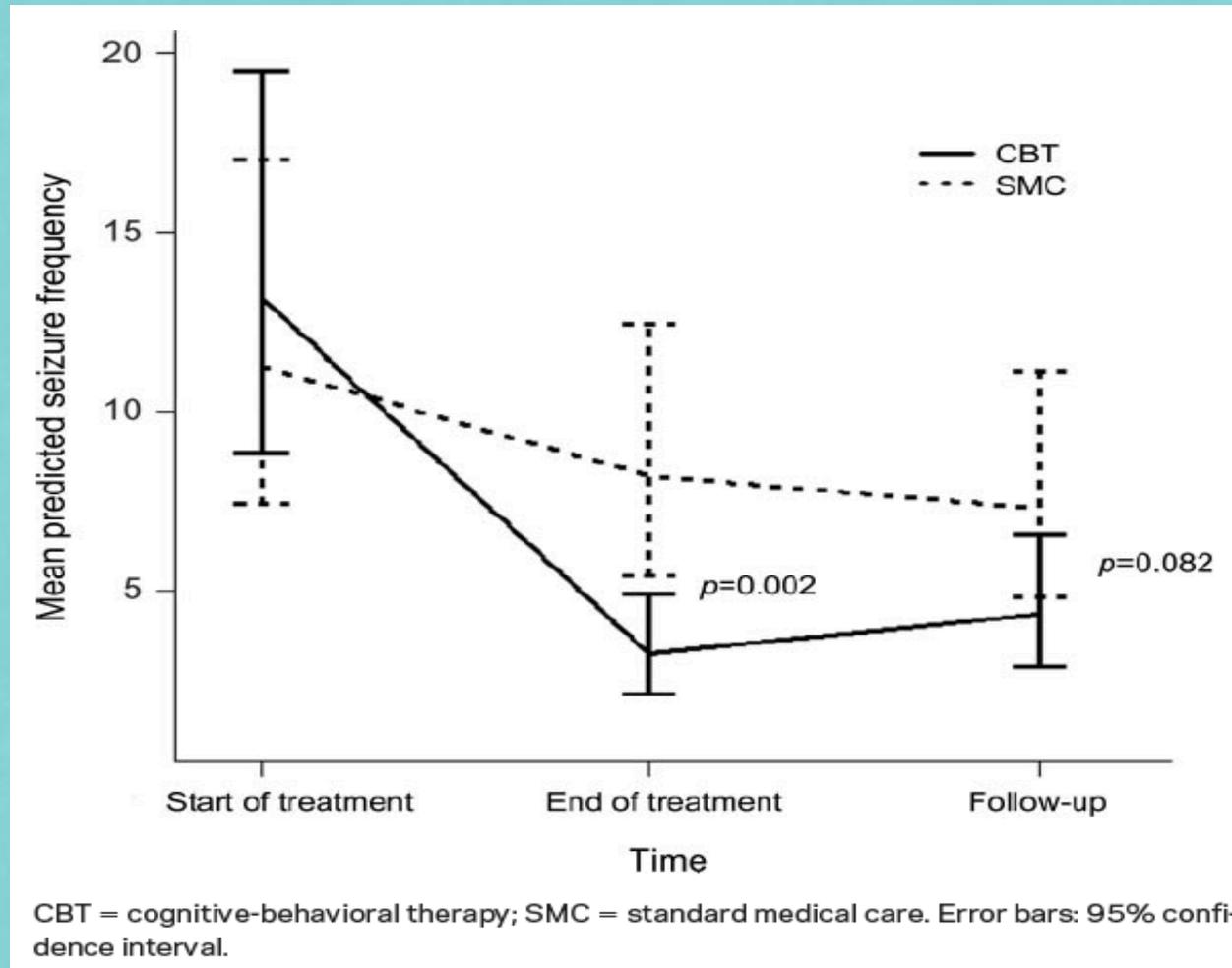
- Originally developed for depression. Nowadays, widely applied to several mental health diagnoses (depression, anxiety disorders, addiction disorders).
- Problem-focused
- Action-oriented
- Behaviorists focus on changing relationship between stimulus and behavioral response.
- Cognitive therapists focus on conscious thoughts as directing behavior.
- CBT merges both approaches.



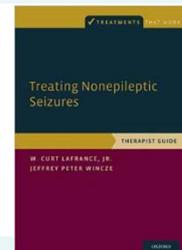
CBT PROTOCOL FOR PNES (GOLDSTEIN ET AL, 2010)

- Sessions 1-2) Engagement in Treatment
- Sessions 3-4) **Distraction, refocusing and relaxation techniques; graded exposure to avoided situations – BEHAVIOR FOCUS (targets avoidance, hypervigilance)**
- Session 5) **Cognitive restructuring – COGNITION FOCUS (targets unhelpful thoughts)**
- Session 6 – with “carers”) Review of tx and agenda for sessions 7-9
- Session 10-11) Relapse prevention and development of discharge plan
- Session 12) Progress evaluation

RANDOMIZED CONTROLLED TRIAL: CBT VERSUS STANDARD MEDICAL CARE



CBT-INFORMED PSYCHOTHERAPY FOR PNES (PUBLISHED 2015)



- Introduction: Understanding seizures
- Session 1: Making the decision to begin the process of taking control
- Session 2: Getting support
- Session 3: Deciding about your medication therapy
- Session 4: Learning to Observe Your Triggers
- Session 5: Channeling Negative Emotions into Productive Outlets
- Session 6: Relaxation Training
- Session 7: Identifying your Pre-seizure Aura
- Session 8: Dealing with External Life Stresses
- Session 9: Dealing with Internal Issues and Conflicts
- Session 10: Enhancing Personal Wellness: Learning to reduce tensions
- Session 11: Other seizure symptoms
- Session 12: Taking control: an ongoing process

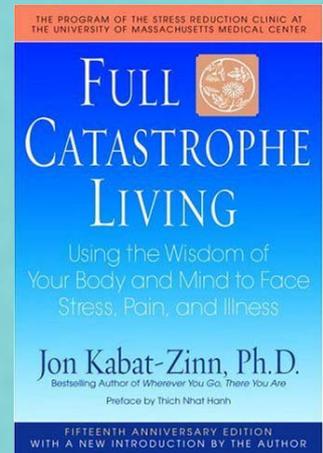
MULTICENTER RANDOMIZED TRIAL: CBT-IP, SSRI, COMBINED TREATMENT, TREATMENT-AS-USUAL

Arm	N	Slope (SE)	t	p	Post/Pre tx ratio of sz (SE)	% reduction
CBT-ip	9	-0.72 (0.3)	-2.95	.01	0.49 (0.1)	51.4
CBT-ip + sertraline	9	-0.90 (0.3)	-2.69	.008	0.41 (0.1)	59.3
Sertraline	9	-0.31 (0.2)	-1.78	.08	0.74 (0.1)	26.5
TAU	7	-0.40 (0.3)	-1.32	.19	0.67 (0.2)	33.8

CBT-ip: CBT – informed psychotherapy; TAU: Treatment as usual
LaFrance et al, JAMA Psychiatry, 2014

MINDFULNESS: THE BASICS

- Mindfulness defined as “paying attention in a particular way: on purpose, in the present moment and non-judgmentally.” (Kabat-Zinn)
- Utilizes concepts from eastern meditation philosophies.
- Mindfulness is the principal therapeutic component of specific psychotherapeutic approaches: dialectical behavior therapy (DBT), acceptance and commitment therapy (ACT), mindfulness-based stress reduction (MBSR), mindfulness-based cognitive therapy (MBCT).
- Also called ‘third wave behavioral therapy’ as still rooted in core behaviorism principles.
- Focus is on change to one’s relationship to his/her own reality, feelings, thoughts, behaviors.



WHY MINDFULNESS IN PNES?

- PNES occur as an **automatic** long-term response to accumulated stressors (sometimes obvious, sometimes not).
- Hypervigilance, avoidance and difficulties recognizing and accepting one's emotional reality all have been identified in PNES (and to drive the disease) and are targets of mindfulness.

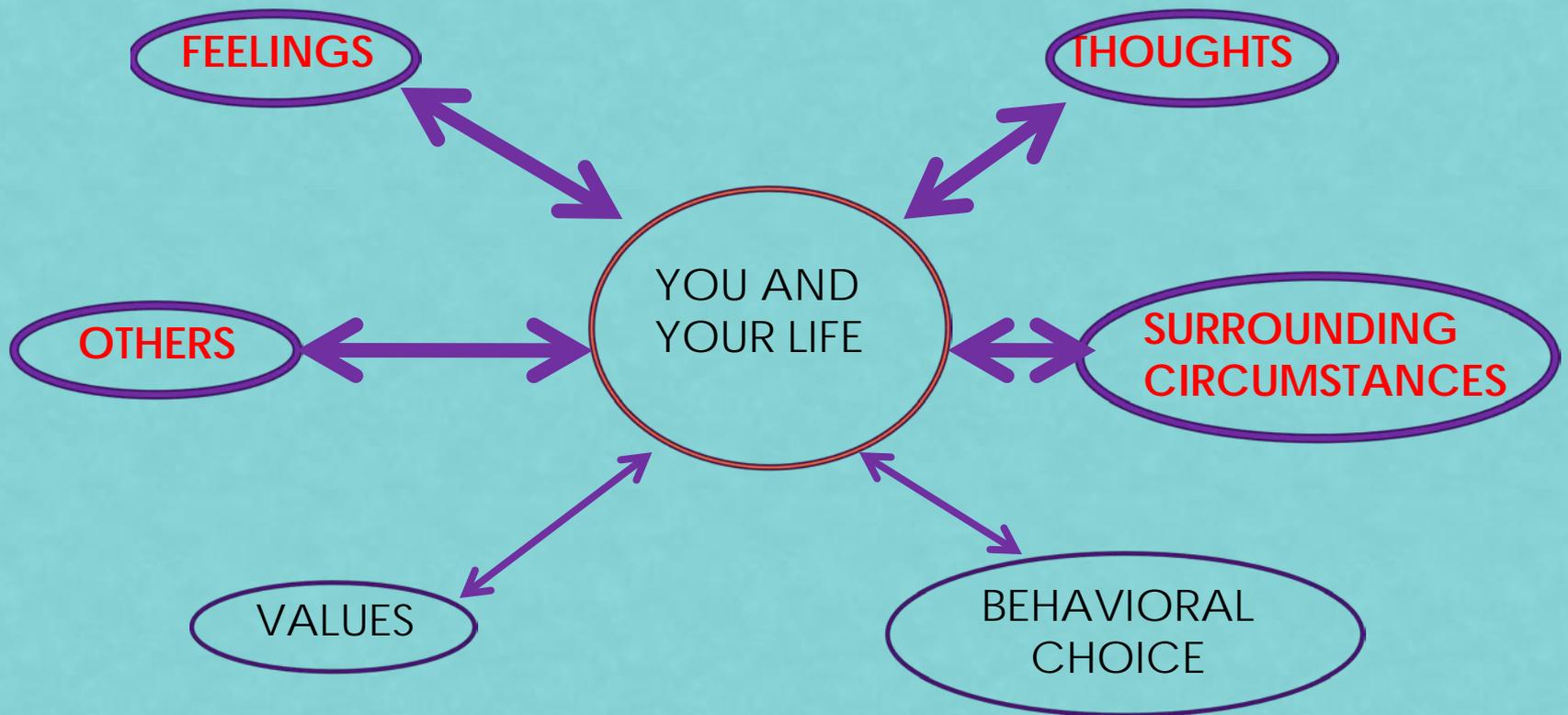
- By **retraining one's attention** to recognize, accept and respond **more effectively** to one's internal processes, we will **create behavioral choice** and hence change will happen.
- Identification of values is essential to dictate new behavioral choice.



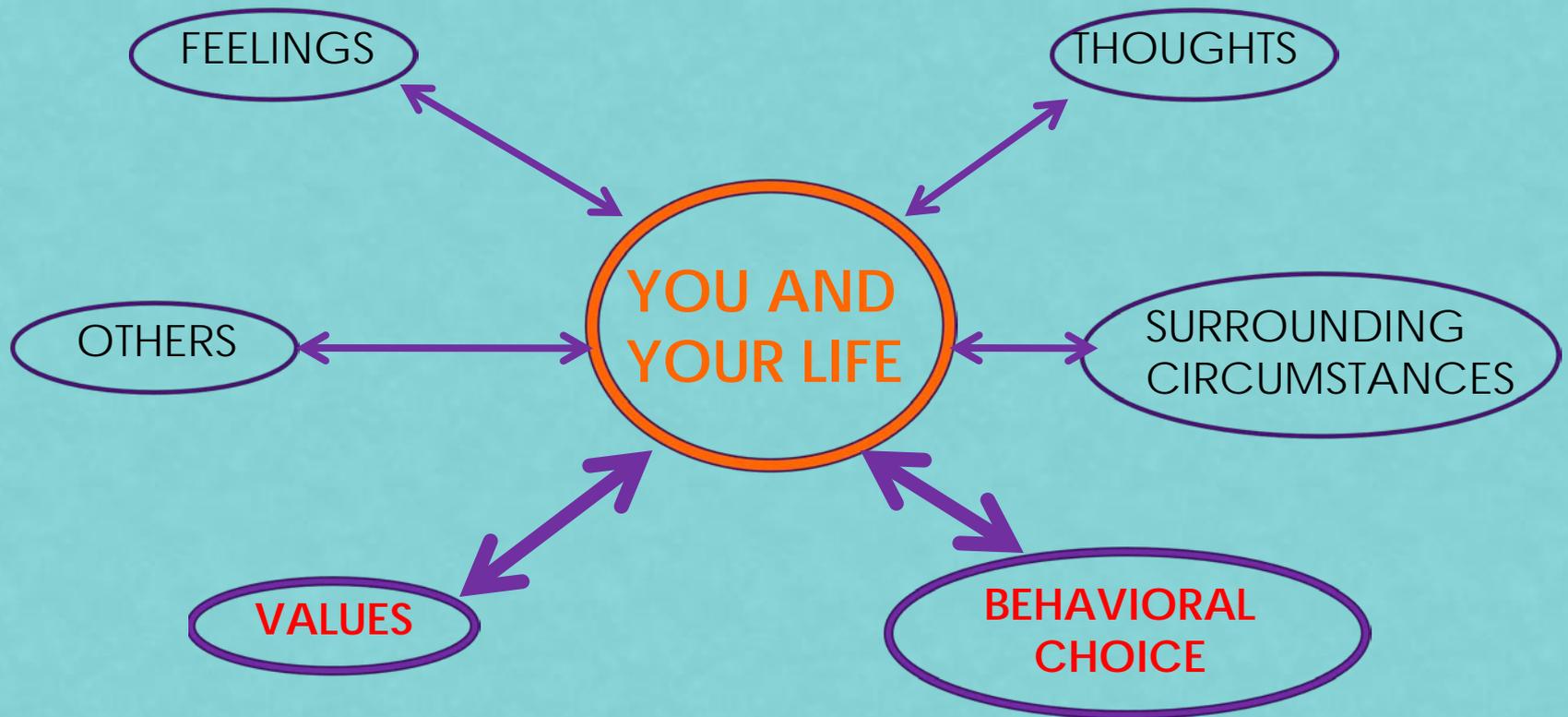
HOW CAN CHANGE HAPPEN?

- The **MORE behavioral choice**, the **LESS the chance for automatic behaviors** to just happen.
- This requires **a lot of practice**.
- How do we create “behavioral choice”?
 - * Retraining our mind to be in the present;
 - * Becoming more aware of our values to guide our choices;
 - * Relate more effectively to our internal processes: acknowledge them, accept them, AND “not let them be in the driver’s seat”

HOW MINDFULNESS WORKS: BEFORE MINDFULNESS TRAINING



HOW MINDFULNESS WORKS: AFTER MINDFULNESS TRAINING



MINDFULNESS-BASED INTERVENTION

MODULE I: UNDERSTANDING YOUR DISEASE AND YOUR TREATMENT

- **Session 1: Understanding Your Illness**
- **Session 2: Identifying the function of the symptom**
- **Session 3: Identifying values**

MODULE II: STRESS MANAGEMENT STRATEGIES

- **Session 4: Understanding the stress cycle**
- **Session 5: Mastering a stress management skill**

MODULE III: MINDFULNESS

- **Session 6: Introduction to mindfulness**
- **Session 7: Incorporating mindfulness into everyday life**

MODULE IV: EMOTION MANAGEMENT

- **Session 8: Emotion Recognition**
- **Session 9: Emotion Acceptance**
- **Session 10: Regulation of emotion-driven behavior**

MODULE V: REWORKING COGNITIONS & RELAPSE PREVENTION

- **Session 11: Reworking cognitions**
- **Session 12: Relapse Prevention**

Case Series: Mindfulness-Based Protocol

	Baseline - Weekly events	6th session - Weekly events	12th session – Weekly events	Weeks for 12 sessions
Patient 1	2.5	1.5	0	43
Patient 2	8.5	7	5	15
Patient 3	2.125	0	0	22
Patient 4	0.25	0	0	37
Patient 5	70	5	2	20
Patient 6	24.5	0	11	21
Avg	17.98	2.25	3	

FINAL THOUGHTS

- **Identifying a therapist** you are willing to work with is most important.
- There are emerging **manualized treatments** showing efficacy for PNES.
- CBT has strongest evidence; mindfulness-based therapy also offer some benefit (based on a small scale case series).
- CBT emphasizes behavioral and cognitive change; mindfulness emphasizes relational change between oneself and thoughts, feelings, others, values, etc.
- Ultimately, **openness to create change** is most important regardless of specific type of therapy.

TREATMENT MANUALS AND GUIDES

- LaFrance WC and Wincze JP. Treating non-epileptic seizures: Therapist Guide. Oxford University Press; 2015.
- Myers L. Psychogenic Non-Epileptic Seizures: A Guide. North Charleston, SC: CreateSpace Independent Publishing Platform; 2014.
- Reiter JM, Andrews D, Reiter C and LaFrance WC. Taking control of your seizures: Workbook. Oxford University Press; 2015.
- Williams C, Kent C, Smith S, Carson A, Sharpe M and Cavanagh J. Overcoming functional neurological symptoms: a five areas approach. London, UK: Hodder Arnold; 2011.