DIGGING INTOTHE BIO-PSYCHO-SOCIAL

IRETA Webinar, December 2024

Dr. James H. Berry, West Virginia University Rockefeller Neuroscience Institute



OVERVIEW

- The Bio-Psycho-Social Model
- Psychological Treatments
- Social Elements of Treatment/Recovery
- Spirituality and Faith Communities
- Q&A



"DOC, CAN I GET A BRAIN TRANSPLANT?"

HUMANS ARE NOT BRAINS ON LEGS!



HEALTH = HOLISTIC

















ADDICTION AS DISEASE



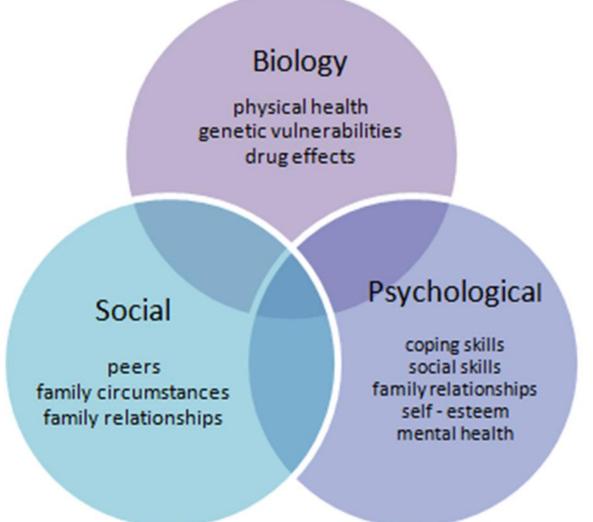


Addiction is a **treatable**, **chronic** medical disease involving complex interactions among **brain** circuits, **genetics**, the **environment**, and an individual's life **experiences**. People with addiction use substances or engage in behaviors that become **compulsive** and often **continue** despite harmful **consequences**.

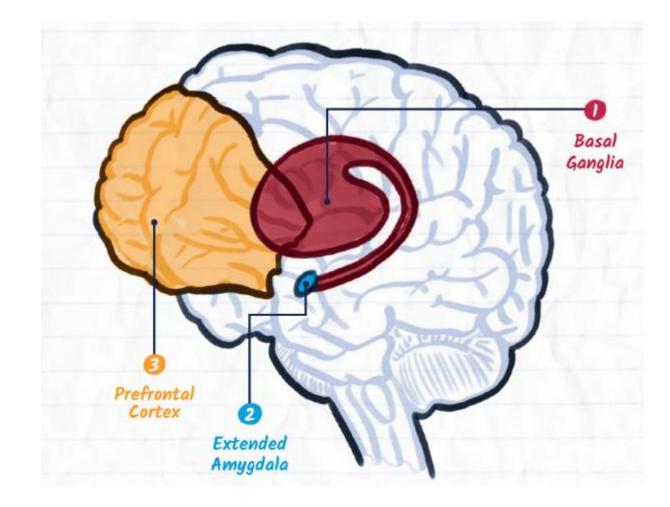


Prevention efforts and treatment approaches for addiction are generally as successful as those for other chronic diseases.

Bio-Psycho-Social Model

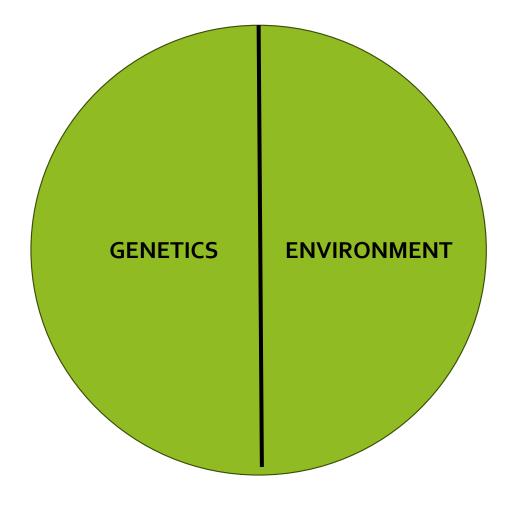


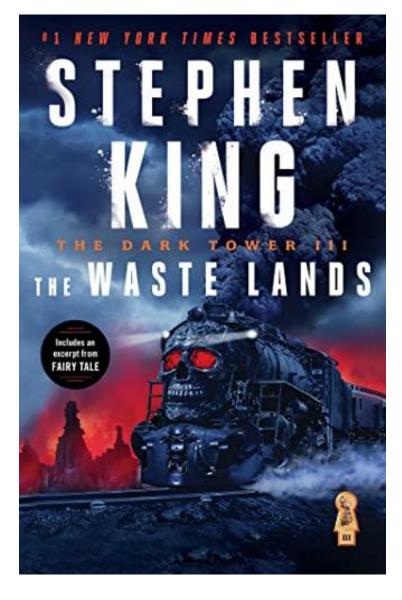
THE BRAIN



NIDA's Mind Matters, Drugs and The Brain

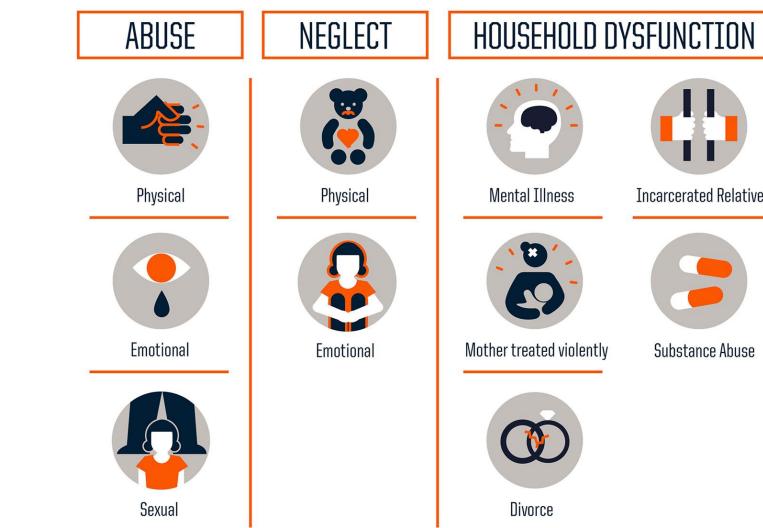
NATURE AND NUTURE





"Beating heroin is child's play compared to beating your childhood."

ADVERSE CHILDHOOD EXPERIENCES

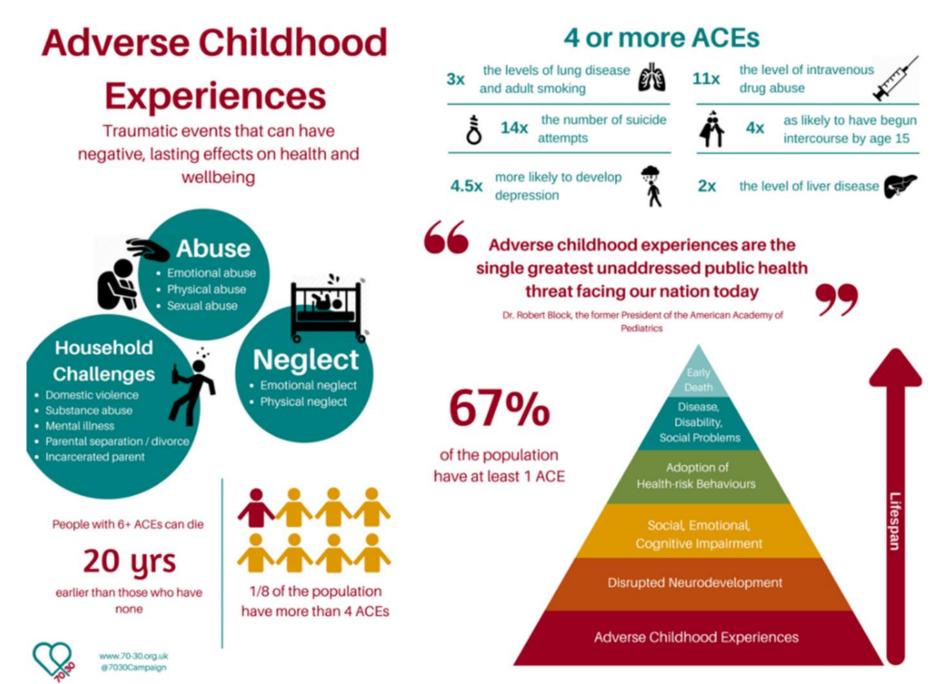


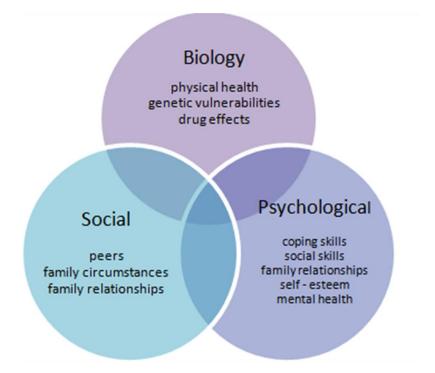


Incarcerated Relative



Substance Abuse

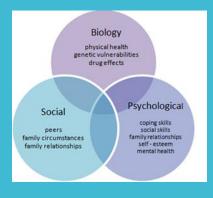


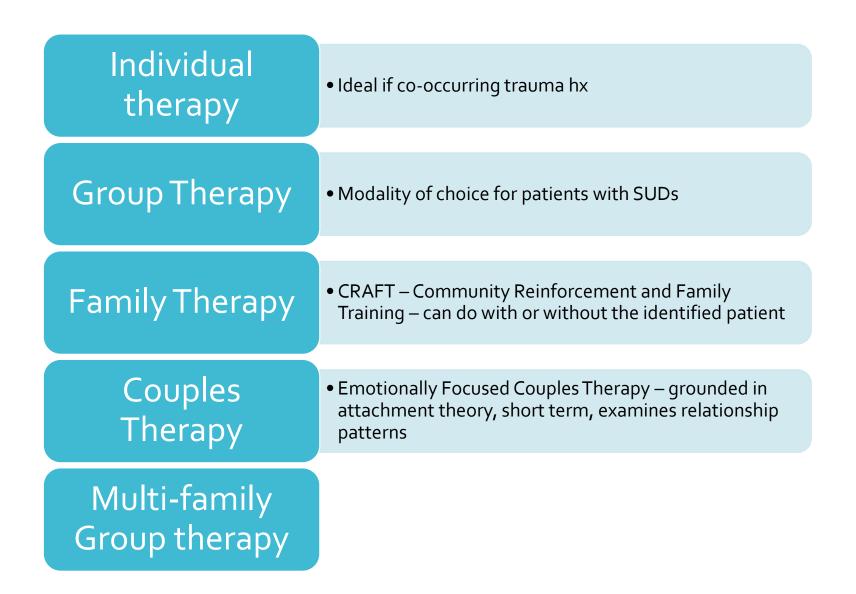


BIOLOGIC TREATMENT

MEDICATIONS DIET EXERCISE SLEEP NEUROMODULATION

PSYCHOLOGIC TREATMENT

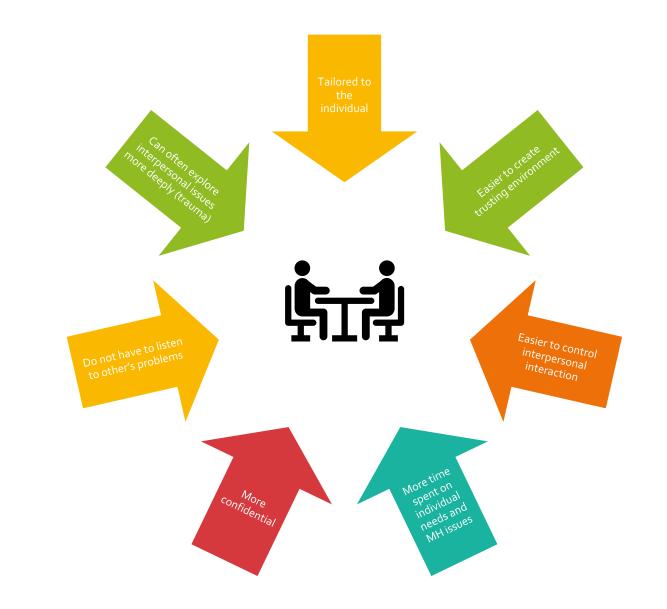


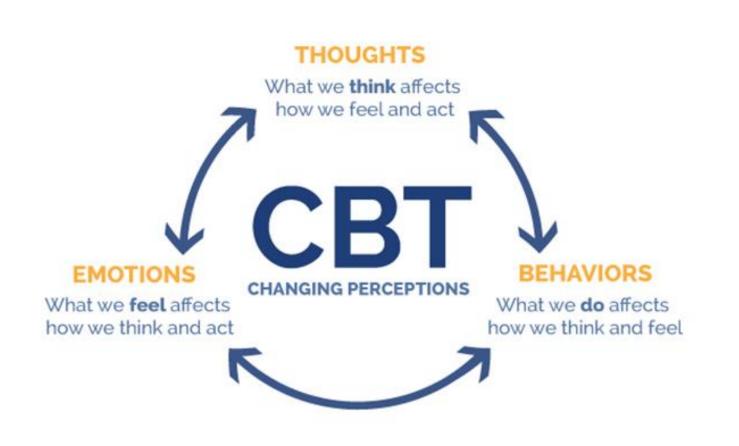


Peer support	Reduction of isolation	Witness progress of others
Learn coping/social skills from others	Learn new information	Gain feedback
Support/nurturance	Confrontation	Force Multiplier

BENEFITS OF GROUP THERAPY

BENEFITS OF INDIVIDUAL THERAPY





COGNITIVE BEHAVIORAL THERAPY

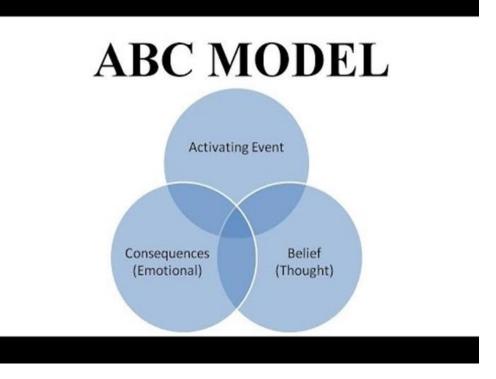
Founded in the 1960s as a combination of work by Albert Ellis and Aaron Beck

"problem-focused" and "action-oriented"

If we can find a connection between our thoughts, feelings and actions, we can increase our awareness, change thoughts and behaviors necessary for successful recovery.

Group or individual therapy

Has the greatest evidence for the treatment of SUDs

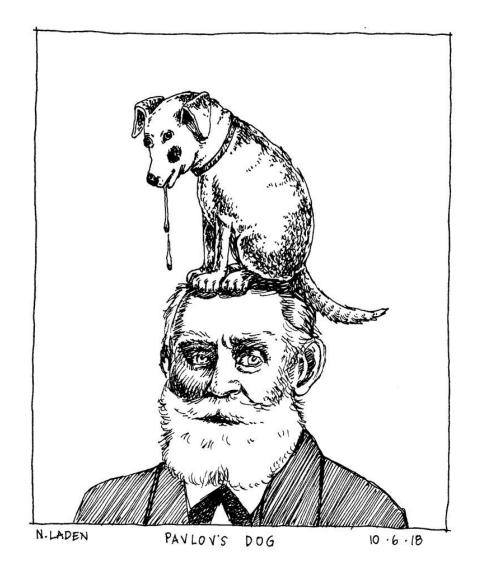


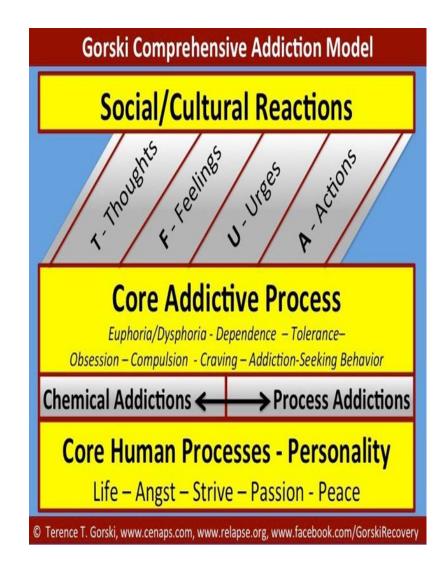
$A \ {\rightarrow} B \ {\rightarrow} C$

- A = Activating Event
- B = Beliefs, Thoughts, Attitudes, Assumptions, motivations
- C = Consequences, Feelings, Emotions, behaviors, Actions

ABCs of CBT

CLASSICAL CONDITIONING





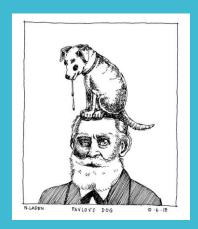
RELAPSE PREVENTION

Incorporates CBT strategies

Emphasizes having awareness of warning signs Changes in behavior, attitudes, emotions

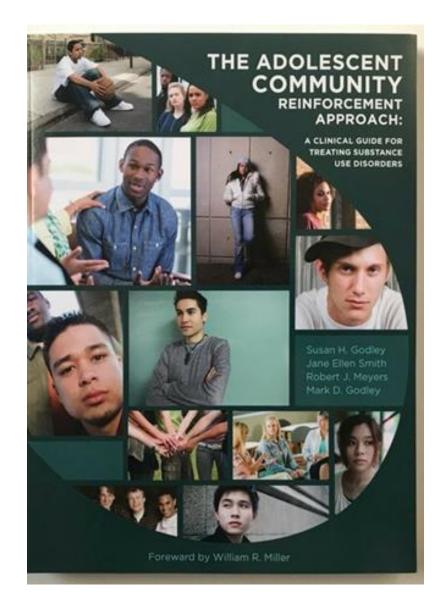
Identify triggers People, places, and things

Have a relapse prevention plan



COMMUNITY REINFORCEMENT APPROACH

Behavioral skills training Social and recreational counseling Marital therapy Motivational enhancement Job counseling Relapse prevention



Teaches behavioral and motivational strategies for interacting with loved one and addressing resistance to change

Skills:

Understand triggers for use
Positive communication strategies
Positive reinforcement strategies
Self-care
Precautions against domestic violence
Problem-solving
Goal-setting

Family members learn practical strategies to motivate change

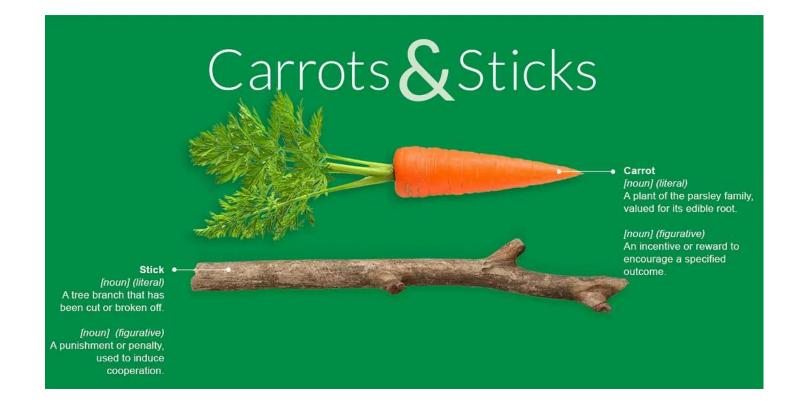
Learn communication skills to support healthy behaviors

Helps family create an environment where loved one is motivated to reduce or discontinue their use

C.R.A.F.T.

Community Reinforcement And Family Training

Teaching Families How To Help Their Loved One, Help Themselves



CONTINGENCY MANAGEMENT

OPERANT CONDITIONING



CONTINGENCY MANAGEMENT

Systematic delivery of positive reinforcement for desired behaviors.

In the treatment of methamphetamine use disorder, vouchers or prizes can be "earned" for submission of methamphetamine-free urine samples. How Using Contingency Management Can Support Families Affected by Substance Use Disorders

September 29, 2022



National Center on Substance Abuse and Child Welfare

BASIC CM PRINCIPLES

1. Frequently monitor target behavior

2. Provide incentive when target behavior occurs

3. Remove incentive when target behavior does not occur

Repeat



MOTIVATIONAL INTERVIEWING

Over 450,000 in Print FOURTH EDITION

MOTIVATIONAL INTERVIEWING

HELPING PEOPLE CHANGE AND GROW

William R. Miller Stephen Rollnick "MI is about arranging conversations so that people talk themselves into change, based on their own values and interests. Attitudes are not only reflected in but are actively shaped by speech."

Attending to natural language about change

How to have more effective conversations about change

A collaborative conversation style

for strengthening

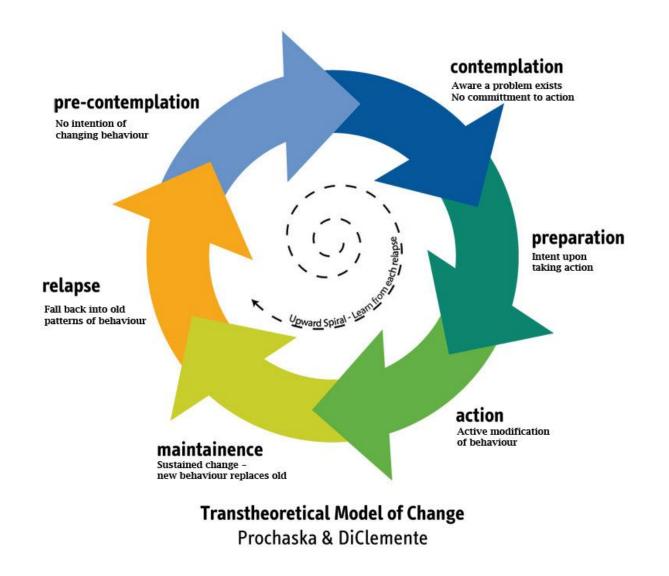
a person's

<u>own</u>

motivation and commitment to change







MOTIVATIONAL INTERVIEWING

Especially useful for people who are reluctant to change or **ambivalent** about changing

Intended to resolve ambivalence and get a person moving along the path of change



SPIRIT of MI

Inter – view

Collaboration vs. Confrontation

- Not done "to" or "on" a person
- Done "for" and "with" a person

Elicitation vs. Education

• Evoking that which is already present, not installing what is missing

Autonomy vs. Authority

Compassion

Over 450,000 in Print

MOTIVATIONAL INTERVIEWING

HELPING PEOPLE CHANGE AND GROW

William R. Miller Stephen Rollnick

MINDFULNESS BASED INTENTERVENITIONS

- Mindfulness-Based Relapse Prevention
- Mindfulness-Oriented Recovery Enhancement
- Acceptance and Commitment Therapy and Dialectical Behavioral Therapy also have Mindfulness components

Have been shown to be most effective in patients with co-occurring mood disorders

MATRIX MODEL

Is a manualized, 16-week, psychosocial approach for SUD

Integrates several interventions into a comprehensive approach:

- Individual counseling
- Cognitive behavioral therapy
- Motivational interviewing
- Positive reinforcement for behavior change
- Family education groups
- Urine testing
- Participation in 12-step programs

Counselor's Treatment Manual

Matrix Intensive Outpatient Treatment for People With Stimulant Use Disorders

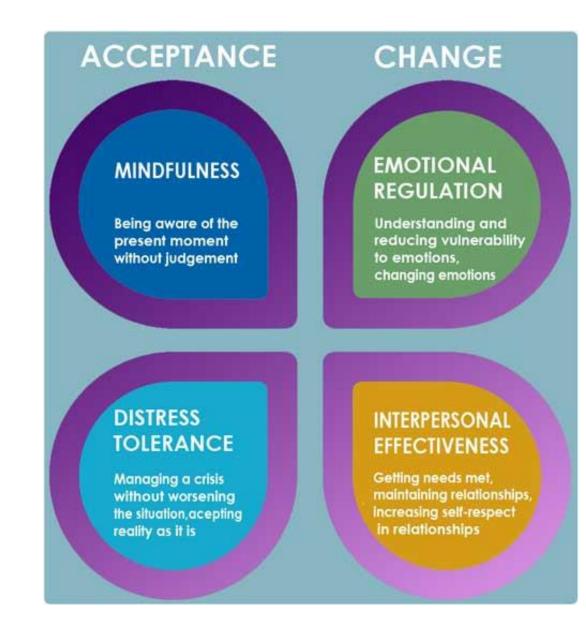




Dialectical Behavioral Therapy Addiction Treatment (DBT-AT)

4 Core components:

- Mindfulness
- Distress Tolerance
- Emotion Regulation
- Interpersonal Effectiveness
- Additional DBT-AT skills include community reinforcement of abstinent behaviors, building bridges to new stimuli to condition abstinence, and adaptive denial of unbearable expectations of remaining abstinent



The Twelve Step Facilitation Outpatient Program

The Project MATCH Twelve Step Treatment Protocol

FACILITATOR GUIDE



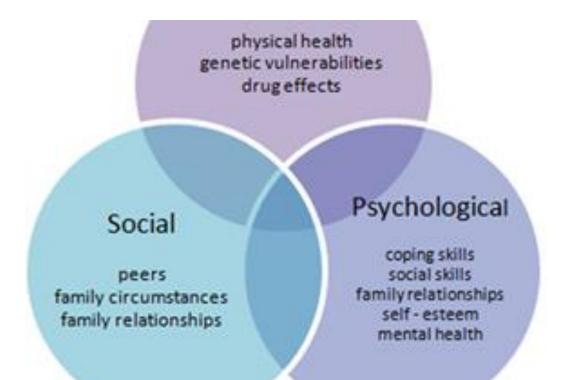
JOSEPH NOWINSKI, Ph.D.

12 STEP FACILITATION

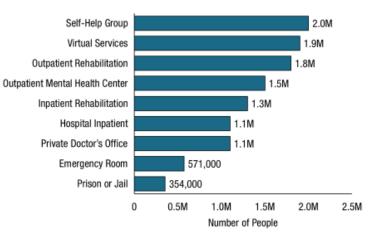
Manualized treatment utilizes 12-step group-based model of treatment emphasizing 12 step concepts of acceptance, surrender and getting active

Encourages attendance at 12 step meetings

Focus on concepts of: Acceptance Surrender Getting active



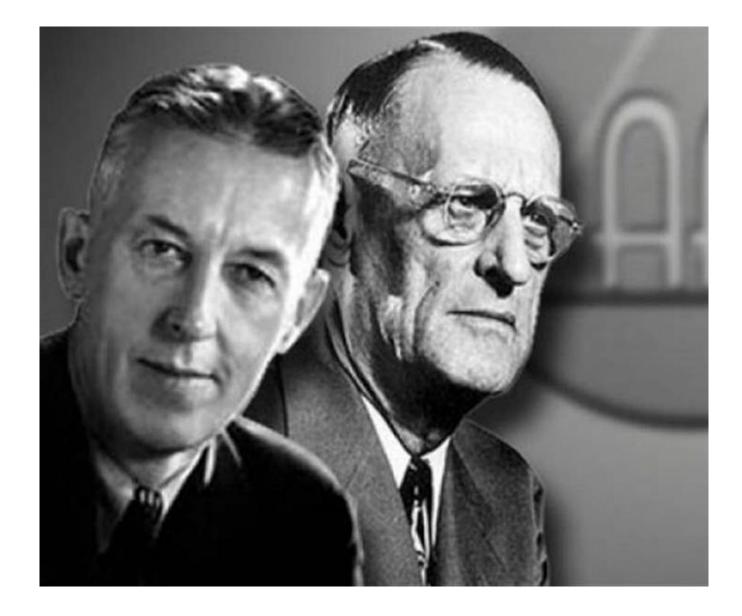
Locations Where Substance Use Treatment in the Past Year W Received: Among People Aged 12 or Older; 2021



Note: Locations where people received substance use treatment are not mutually exclusive because respondents could report that they received treatment in more than one location in the past year.

MUTUAL SUPPORT GROUPS

ALCOHOLICS ANNONYMOUS



- 25 years of NIH facilitated research concluding AA and TSF to be effective and cost-effective interventions
- As good, or better results than "modern" interventions
- Project MATCH (TSF vs CBT vs MET)
 - TSF had 60-70% more subjects in full, sustained remission at 1y
 - TSF had 50% more completely abstinent at 3y
- AA has a causal impact on outcomes
- Lower health care costs

ALCOHOLICS ANONYMOUS

ALCOHOLICS ANONYMOUS: How does it help?

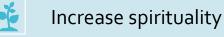
titi Change social networks in support of abstinence and recovery



Boost abstinence self-efficacy and recovery coping skills

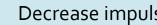


Help maintain recovery motivation over time



Decrease depressive symptoms

Decrease cravings



Decrease impulsivity

Kelly JF. Is Alcoholics Anonymous religious, spiritual, neither? Findings from 25 years of mechanisms of behavior change research. Addiction. 2017 Jun;112(6):929-936.

ALCOHOLICS ANONYMOUS: Why does it work?

Research suggests that AA's effects are most likely due to what call Carl Jung termed, "the protective wall of human community."

MUTUAL SUPPORT GROUPS

AA

NA

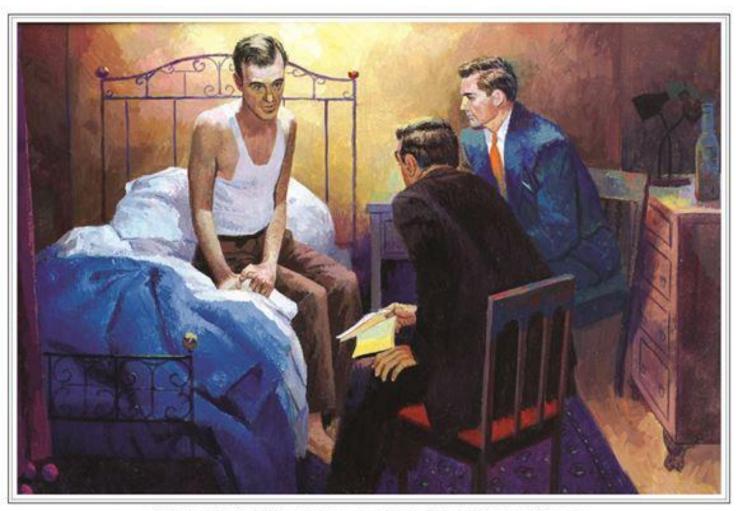
SMART RECOVERY

RATIONAL RECOVERY

CELEBRATE RECOVERY

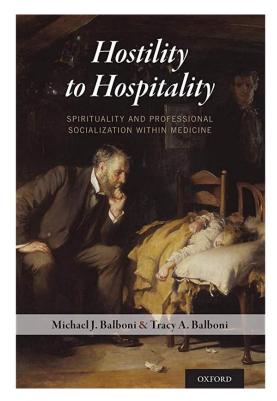
RECOVERY DHARMA

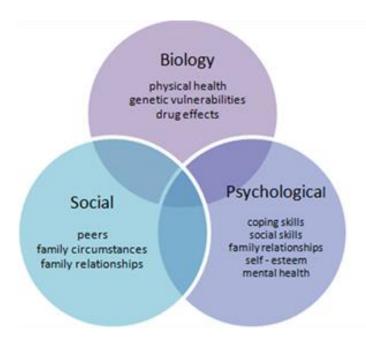
Many Others...



"The Man on the Bed". This oil painting was created by Robert M. for the AA Grapevine and was reproduced as the center spread in the December, 1955 issue.







- Spirituality: Life centered in the person(s) and/or object(s) of one's chief love – however individually understood and pursued
- **Religion**: The individual and social structures that flow from and facilitate a chief love, including beliefs, practices, relationships, and organizations

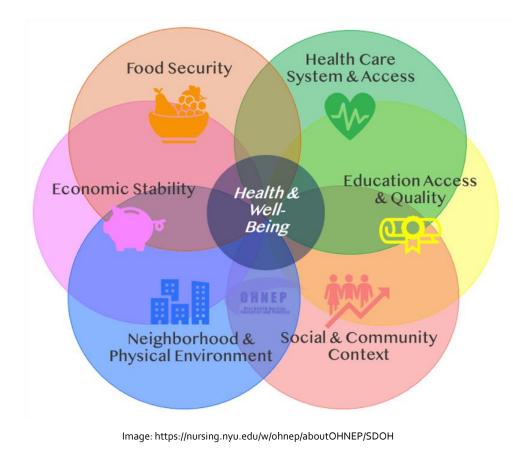
SPIRITUALITY



FAITH COMMUNITIES

SOCIAL FACTORS

- Work
- Transportation
- Pharmacy
- Dentist
- PCP
- Childcare
- Housing
- Education
- Food Security



SAMHSA's Four Major Dimensions of Recovery



HEALTH

- Expand access to primary health care and mental health and substance use treatment.
- Build resiliency.

PURPOSE

- Implement supportive employment programs.
- Expand collegiate recovery.
- Offer financial counseling and education.



POLICY RECOMMENDATIONS TO SUPPORT

THOSE IN RECOVERY:

HOME

 Create affordable, safe, and stable housing options.



COMMUNITY

- Establish community outreach and support networks.
- Promote antidiscrimination and stigma-reduction efforts.
- Engage with faith communities.
- Ensure equity access.
- Implement criminal justice diversion programs.
- Provide family support services.

NO MATTER WHO YOU ARE OR WHERE YOU ARE...THERE IS HOPE.

https://store.samhsa.gov/sites/default/files/pep23-10-00-001-infographic.pdf

HEALTH = HOLISTIC















