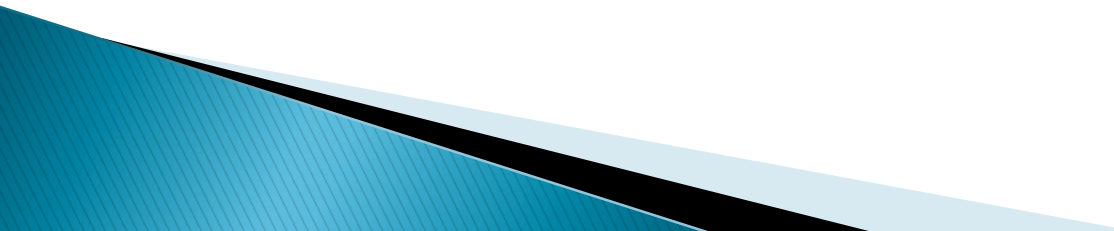


Encouraging Behavior Change using the MaintainIT Theoretical Perspective

Angela D. Bryan, PhD
University of Colorado Boulder

Goals of research in social/health psychology

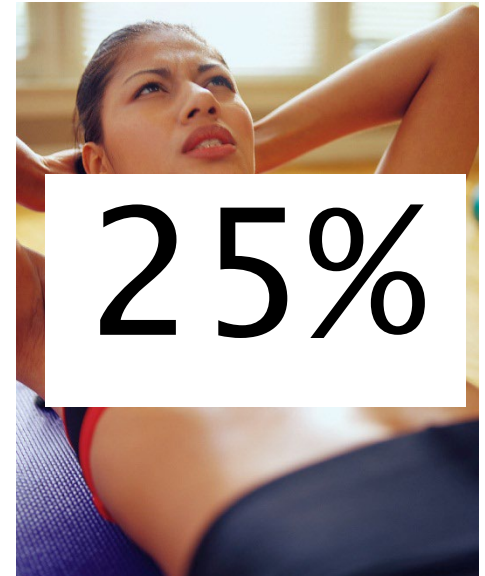
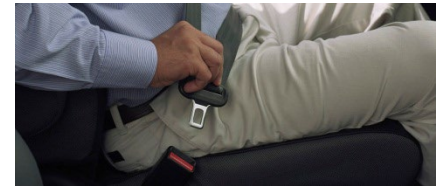
- ▶ Understand the determinants of health behavior
 - ▶ Understand how individuals go about changing their behavior
 - ▶ Develop intervention programs to help individuals successfully change their behavior
- 

Why use a theory?

- ▶ Information-only approaches
- ▶ Sometimes useful for simple behaviors
 - Seatbelt use
- ▶ Almost never effective for complex behavior change
 - Diet
 - Exercise
 - Sleep
 - Medication Adherence

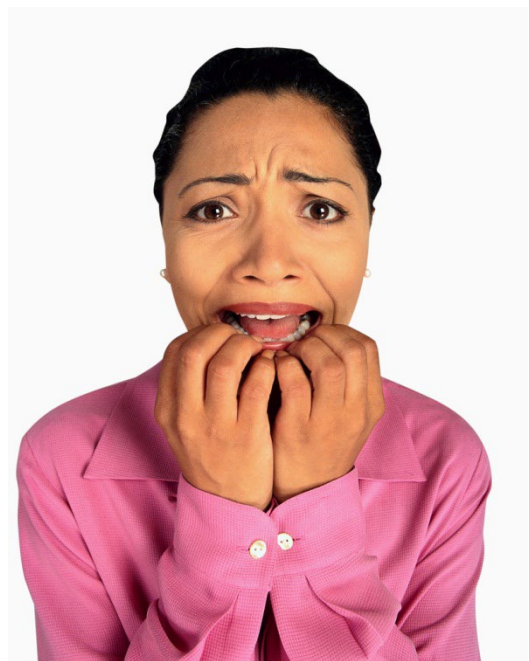


92%



Why use a theory?

- ▶ Conventional wisdom/intuition approaches
- ▶ What individuals who need to change their behavior think will work
- ▶ Fear appeals do not change behavior



Why use a theory?

- ▶ For complex behaviors, theory-based interventions are more successful than those that are not theory-based
 - Glanz & Bishop, 2010; Noar, 2008; Prestwich, Webb, & Conner, 2015)
- ▶ But which theory to use? And which behavior change techniques to utilize?

The Role of Behavioral Science Theory in Development and Implementation of Public Health Interventions

Karen Glanz¹ and Donald B. Bishop²

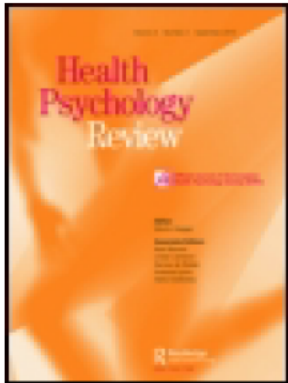
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Key Words

theoretical frameworks, concepts, health behavior, strategies, ecological perspective

The Maintain IT Model



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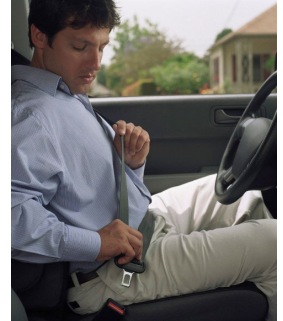
Harnessing centred identity transformation to reduce executive function burden for maintenance of health behaviour change: the Maintain IT model

Ann E. Caldwell, Kevin S. Masters, John C. Peters, Angela D. Bryan, Jim Grigsby, Stephanie A. Hooker, Holly R. Wyatt & James O. Hill

Maintain IT Core Constructs

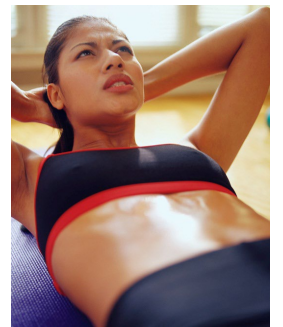
Executive Function:
critical for complex reasoning, planning, focus on long term goals including behavior change

- Downside.... relatively slow, effortful, and prone to errors.
- Behavior that is “automatic” versus cognitively taxing is easier to maintain

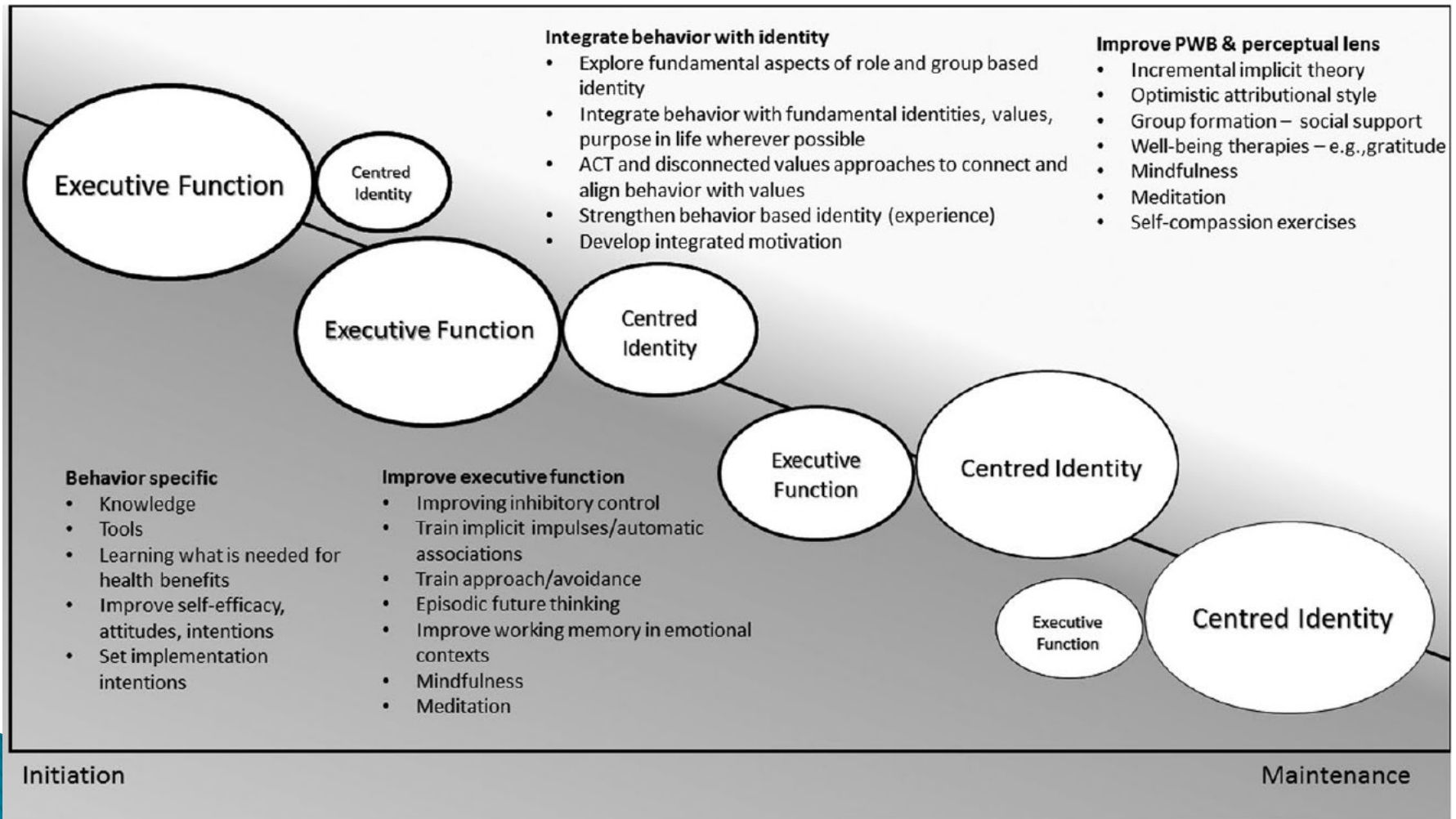


Centered Identity:
one that allows for integration of the behavior with already formed components of identity

- Unlikely that complex behaviors will ever be fully automatic
- Allows for resilience in the face of barriers (emotions, stress, and lapses in behavior)

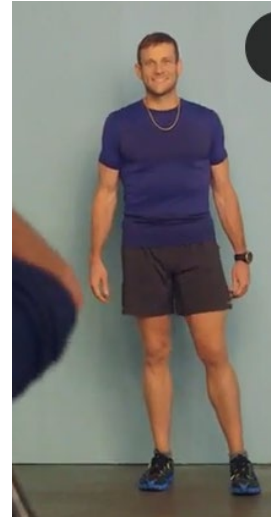


Behavior Change is a Process of Identity Transformation



Moving from Initiation to Maintenance

<http://www.runnersworld.com/runners-world-cover-search/runners-world-cover-search-finalist-josh-lajaunie>



Components of Centered Identity

- ▶ **Behavior-based identity**: the extent to which an individual identifies as a person who performs a given behavior
 - Predicts engagement (e.g., Rhodes et al., 2016; van den Putte, Yzer, Willemsen, & de Bruijn, 2009) and protects against lapses (Kendzierski & Sheffield, 2000).
- ▶ **Role- and group-based identities**: Identity includes roles that correspond to one's place in the social structure
 - Behaviors that align with or help to maintain alignment with roles/groups are more likely to be maintained

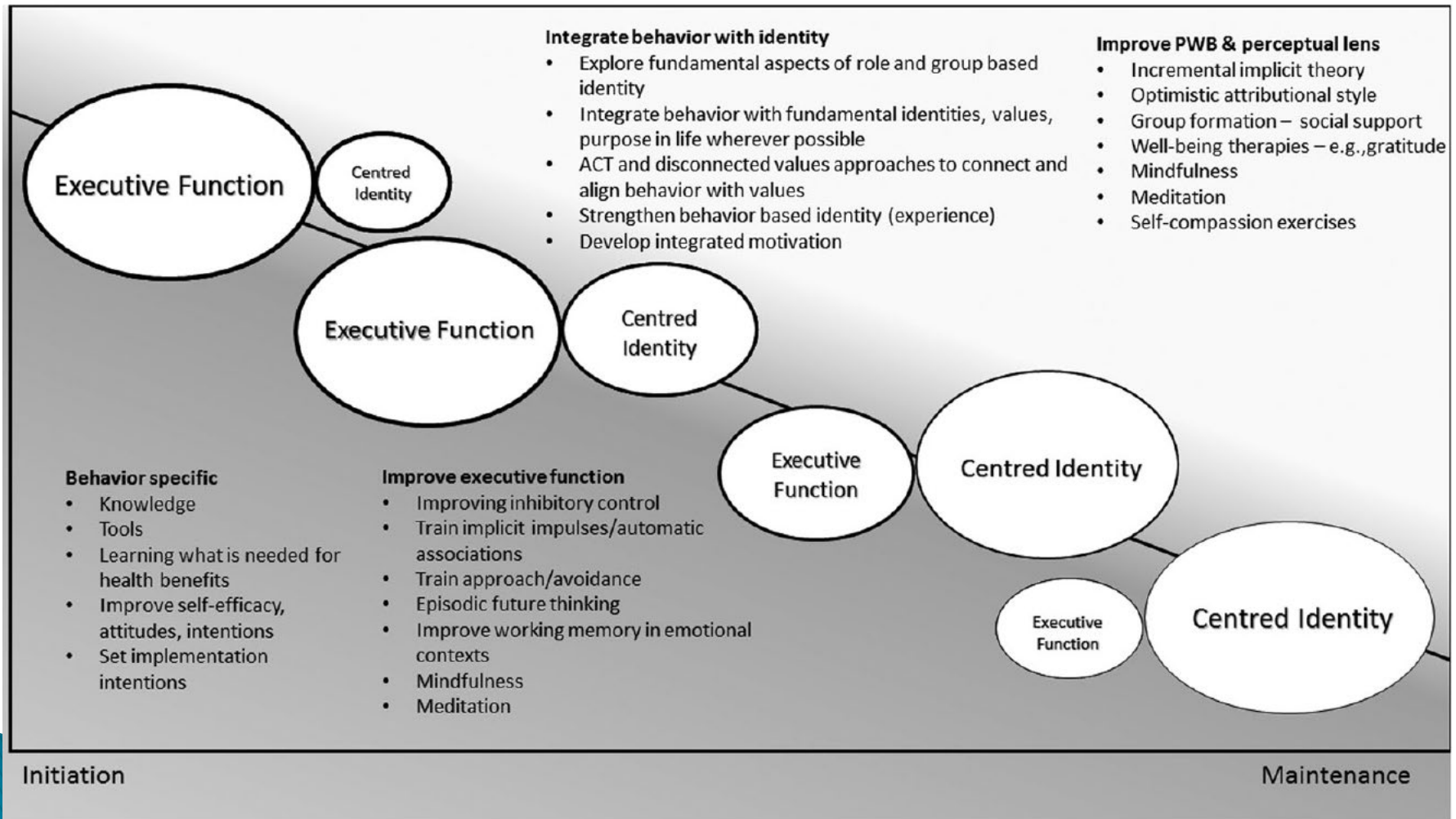
Components of Centered Identity

- ▶ **Personal Values**: core beliefs that guide behavior and provide standards against which behavior is assessed.
 - Those who have awareness of what they value are more likely to make choices that support their health (Segar, Eccles, & Richardson, 2011).
- ▶ **Perceptual Lens**: a filter through which new circumstances and information are perceived and interpreted.
 - Optimistic attributional style and growth mindset predict success at behavior change

Components of Centered Identity

- ▶ **Psychological well-being**: *eudaimonic* well-being, a multidimensional construct representing positive psychological function or flourishing
 - Related to but NOT hedonic well-being (i.e., happiness).
 - Many health behaviors are not inherently enjoyable (Ryan, Patrick, Deci, & Williams, 2008) and may even be unpleasant, particularly at initiation!!
 - Requires ability to tolerate distress and persevere
 - Involves a sense of purpose in life, positive relationships, personal growth, autonomy, and self-acceptance
 - Eudaimonic well-being is robustly related to biomarkers of health (e.g., lower cortisol and inflammatory markers), self-reports of health, and prevention of and recovery from health problems (Ryff, 2014; Ryff, Radler, & Friedman, 2015; Vázquez, Hervás, Rahona, & Gómez, 2009).

Behavior Change is a Process of Identity Transformation



Techniques for Behavior Change

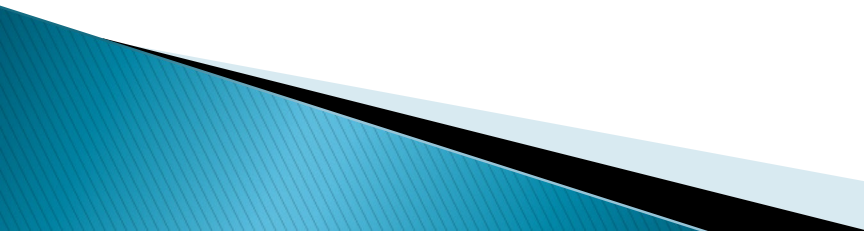


- ▶ How do I get people to engage in this process?
- ▶ Is it even possible to change all these constructs?
 - Spoiler alert: NO

Executive Function

- ▶ Very difficult to change
 - Working memory seems largely trait-based
 - Response inhibition (ability to delay an immediate reward in favor of future larger gain) seems more malleable
 - Most “training” tasks only result in short term changes
 - Mindfulness meditation (Gallant, 2016)
- ▶ EF is a necessary but not sufficient condition
 - Important mostly at early initiation

Facilitating Centered Identity Transformation

- ▶ Behavior-based identity: transformation of this facet of identity is expected to occur with repeated performance of the behavior
 - ▶ Role- and group-based identities: find ways to incorporate the behavior to be consistent with role/group-based identities (mom, husband, coach, etc.)
 - ▶ Personal values: identify important values and link the health behavior to those values
- 

Facilitating Centered Identity Transformation

- ▶ Perceptual lens: some trait-like aspects similar to EF
 - Interventions to increase growth mindset have small effect sizes (Calo, Judd, & Peiris, 2024).
- ▶ Psychological well-being: can be improved with writing gratitude letters or journals, count-your-blessings exercises, and expanding positive relationships (Chan, 2010; Emmons & McCullough, 2003; Ryff, 2014)

Case Study – Setting the Stage

- ▶ A woman in her 40's who needs to increase physical activity
- ▶ ALWAYS support autonomy
 - “Is it OK with you if we talk about increasing your physical activity?”
 - “Can I give you some information about the importance of physical activity?”
 - “What kind of physical activity would you prefer to do?”

Case Study – Learning and Connecting Values to Behavior

- ▶ What are the patient's role-based identities/values
 - “What is important to you? What things in your life do you value?”
- ▶ Make connections to behavior
 - Patient values being a mother and spending her free time with her children; views exercise as being selfish and taking time AWAY from them
- ▶ CHANGE THE FRAME
 - Frame exercise as a part of investing in her children, engaging with them and setting a good example
 - Brainstorm incorporating physical activity in ways that reinforce her role as a mother
 - Walking with her family to the park
 - Hiking or walking with her child

Case Study – Identifying and Confronting Barriers

- ▶ Ask the patient what barriers she sees to being more active
 - Could be family social context, judgment
 - Use implementation intentions (specific plans for when/how to be active); increases the likelihood of following through even in difficult circumstances
 - Recognize social contexts as being situational, transient, and specific, as opposed to internal, stable, and global
 - Life happens, getting active is a process, everyone misses their workout sometimes, this is a journey not a destination

Case Study – Encourage Reflection

- ▶ Encourage patient to keep a gratitude journal
 - Brief statement of what they were grateful for today?
 - If they were active today, how did it make them feel?
- ▶ Come back to their experience at the next visit
 - Ask what they learned from journaling
 - Cheer successes
 - Process challenges/barriers

Thank you!



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Questions? Discussion?

