

#### July 23rd, 2019

#### **Behavior Change - Theory**

Chloe Bryson-Cahn, MD

#### REASONS ANTIBIOTIC PRESCRIBING GUIDELINES ARE NOT FOLLOWED



Belief that non-recommended agents may be more likely to cure an infection



Concern for parent or patient satisfaction, a common method by which clinicians are evaluated



Fear of infection complications and related negative consequences

#### www.cdc.gov/getsmart



Sanchez GV, et al. Effects of primary care provider knowledge, attitudes, and practices on antibiotic drug selection. United States. Emerg Infect Dia. 2014;20:20:417





# **Behavior Theory**











http://upfrontanalytics.com

### MINDSPACE

Messenger	we are heavily influenced by who communicates information
Incentives	our responses to incentives are shaped by predictable mental shortcuts such as strongly avoiding losses
Norms	we are strongly influenced by what others do
Defaults	we 'go with the flow' of pre-set options
Salience	our attention is drawn to what is novel and seems relevant to us
Priming	our acts are often influenced by sub-conscious cues
Affect	our emotional associations can powerfully shape our actions
Commitments	we seek to be consistent with our public promises, and reciprocate acts
Ego	we act in ways that make us feel better about ourselves



# Nudging

- Any aspect of decision making that alters behavior in a predictable way without forbidding any options
- "Nudges are not mandates. Putting fruit at eye level counts as a nudge. Banning junk food does not."





Ly 'A Practitioner's Guide to Nudging' 2013

## A Famous Nudge





### Messenger

Parental Report of Trusting Vaccine Recommendations "A Lot"





Freed, Pediatrics, 2011

#### Norms





Schultz Psych Sci 2007

### Defaults



# Priming





King Health Psychology 2016

# **Commitment (and incentives)**









## Summary

- Traditional approaches to behavioral change may ignore important opportunities
- Cleaver approaches to "choice architecture" are all around us
- Next time, stewardship specific behavior change

