

July 18, 2023

Agenda

- How to Help People Make Better Decisions
- Case Discussions
- Open Discussion



"In contrast to economic models of rational choice suggesting that we respond to information and price signals, insights from across the behavioral sciences suggest that human behavior is actually led by our very human, emotional and fallible brain, and influenced greatly by the context or environment within which many of our decisions are taken (Kahneman, 2011; Thaler & Sunstein, 2008). In other words, behavior is not so much thought about; it simply comes about. The human brain uses a number of heuristics to simplify decision making, but these 'rules of thumb' can also lead people into predictable systematic biases and errors (Kahneman, 2003; Kahneman & Tversky, 2000)."



16 oz

12 oz

8 oz









12 oz

16 oz

20 oz









Barriers

- Lack of guidelines
- Poor familiarity of guidelines
- Time pressure (emphasis on shorter LOS or productivity)
- Explaining to patients why tests/tx not indicated takes time
- Discomfort with diagnostic uncertainty
- Lack of appreciation of harms

- Patient Expectations
 - Lack of knowledge of cost including impact of setting on cost
- Lack of centrally available information on prior tests
- Local Standards of care
- Defensive Medicine (i.e. fear of litigation)
- Local Standards
- Misaligned financial incentives



Illusions

Illusion of control

We tend to overestimate the benefits of the actions we take

Illusion of superiority

We tend to think we do perform better than we actually do

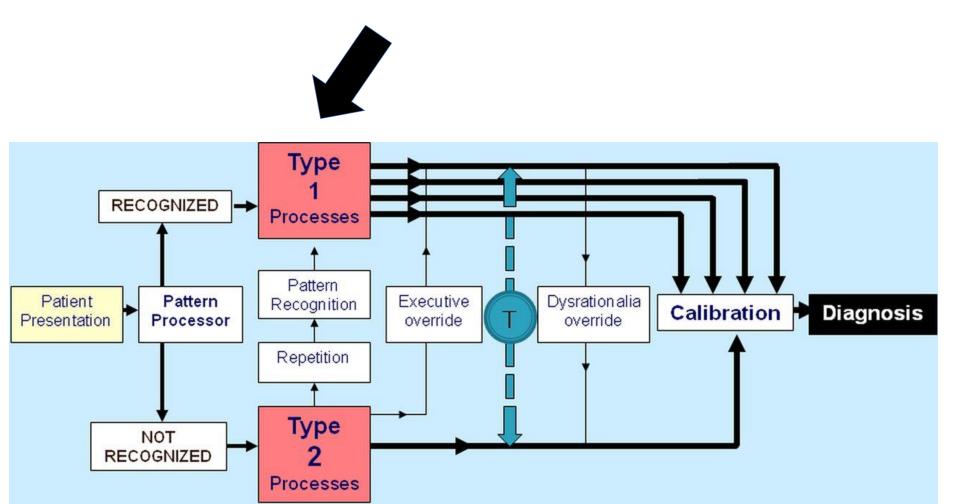
Illusion of individuality

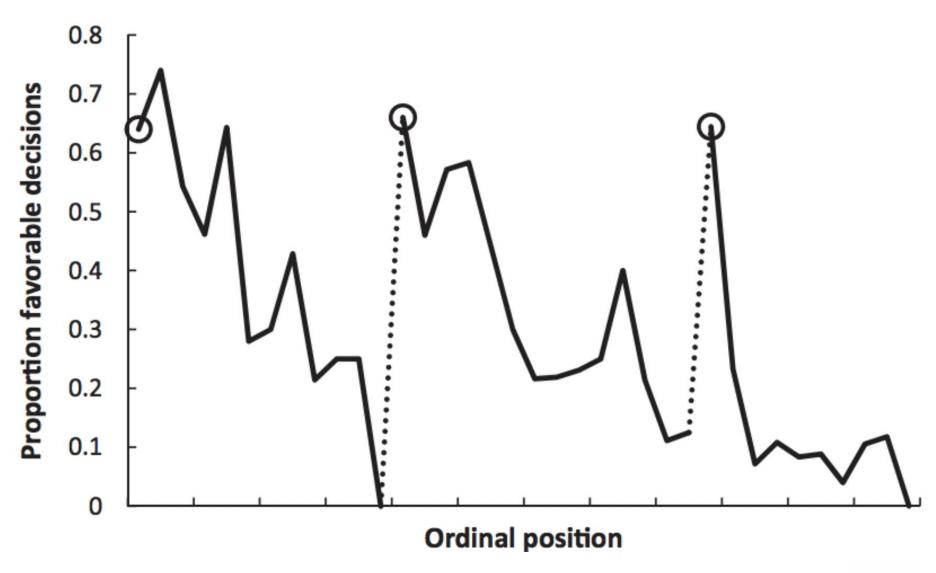
"But my patients are different"



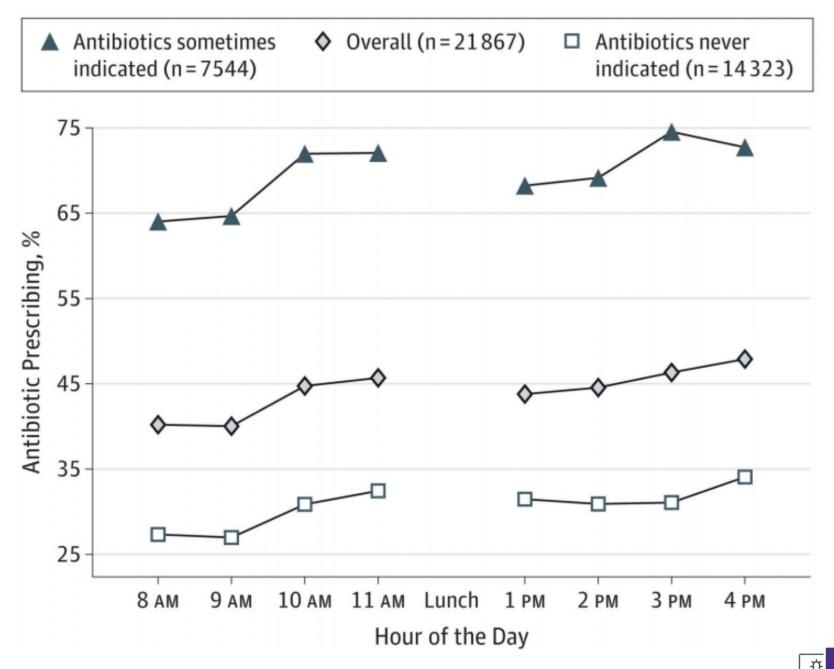
System	Automatic (System 1)	Reflective (System 2)	
Characteristic	Uncontrolled	Controlled	
	Effortless	Effortful	
	Emotional	Deductive	
	Fast	Slow	
	Unconscious	Self-aware	
Examples of use	Speaking in your mother tongue	Learning another language	
	Taking the daily commute	Planning an unfamiliar journey	











Context and Decision Making

- Work Compression (Vidyarthi, JGIM 2007,)
- Fatigue (Landrigan NEJM 2004)
- Burnout (Welp, Front Psychol 2015)
- Time of the day(Lee, American JGastroenterology, 2011)
- Friday Afternoons(Brown, JHealth Econ, 1996)
- Holidays (Smith, Emerg Med Journal 2012)
- Treatment availability (Scherr, Health Commun 2017)



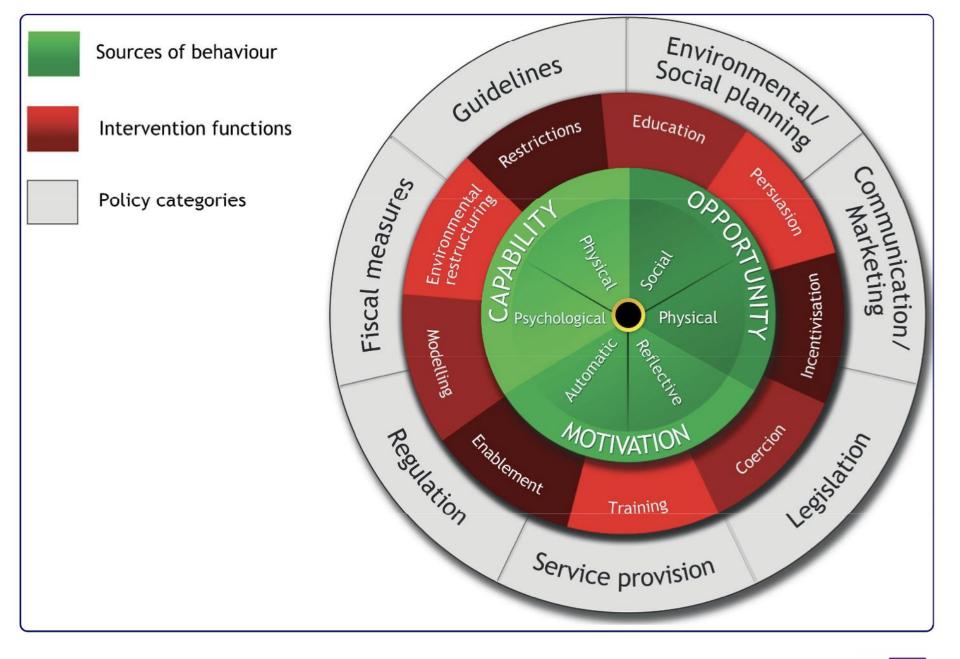
Normal Human Limits

"Relying on provider vigilance to achieve optimal performance is unlikely to produce sustained improvement"

- Ezekiel Emanuel Ann Int Med 2016

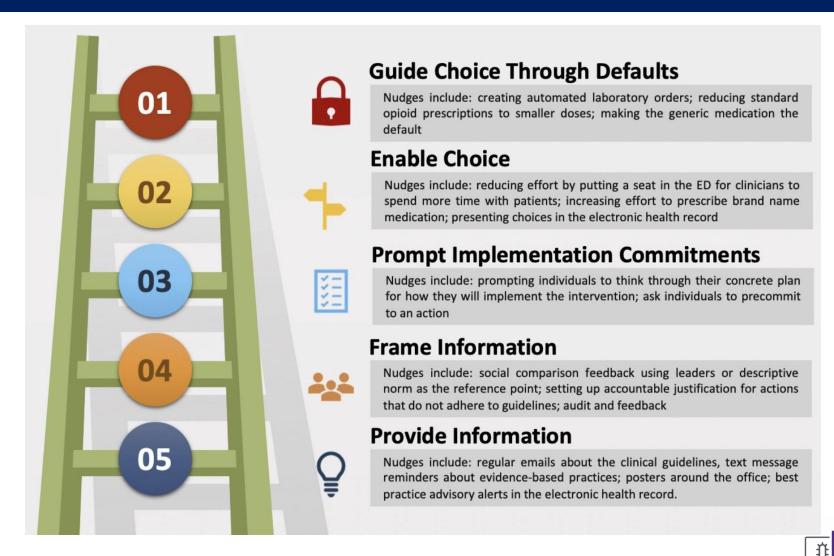
We have to make the right thing to do, the easy thing to do







The Nudge Ladder



DOI: <u>10.1136/bmjopen-2021-048801</u>

Nudges That Work

Nudge category/ author	Type of nudge	Mode	Description	Intervention effect*
Decision structure—change	e option consequen	ces		
Meeker et al ⁴⁴	Accountable justification	Electronic health record	At time of prescribing an antibiotic, physicians were asked to justify their treatment decision in a mandatory free text field. The prompt informed physicians the justification would be visible in the patient's record	Reduction
Persell et al ⁴⁶	Accountable justification	Electronic health record	At time of prescribing an antibiotic, physicians were asked to justify their treatment decision in a mandatory free text field. The prompt informed physicians the justification would be visible in the patient's record	No change
Yang et al ⁴⁹	Public reporting	Posters and reports	Posters with antibiotic prescribing data were publicly displayed in the primary care clinics and reports with the data were sent to clinic managers and local health authorities	Reduction
Decision assistance—provi	de reminders			
Meeker et al ⁴⁴	Suggested alternatives	Electronic health record	At time of prescribing an antibiotic, a pop-up screen stated antibiotics are generally not indicated for the diagnosis and showed a list of alternative treatments	Reduction
Persell et al ⁴⁶	Suggested alternatives	Electronic health record	At time of prescribing an antibiotic, a computerised order set appeared with treatment alternatives and education materials for the patient	Reduction
Decision assistance—facilit	tate commitment			
Meeker et al ⁴³	Public commitment	Poster	A poster-sized letter signed by physicians and posted in examination rooms indicating commitment to reducing antibiotics for RTIs	Reduction

DOI: <u>10.1136/bmjopen-2022-062688</u>

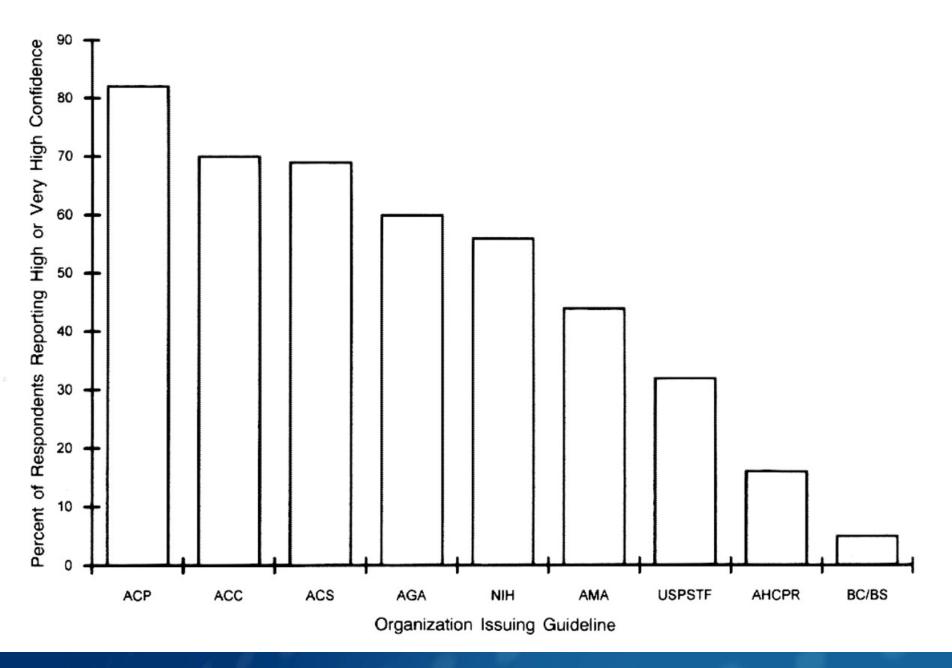


MINDSPACE

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

Messenger



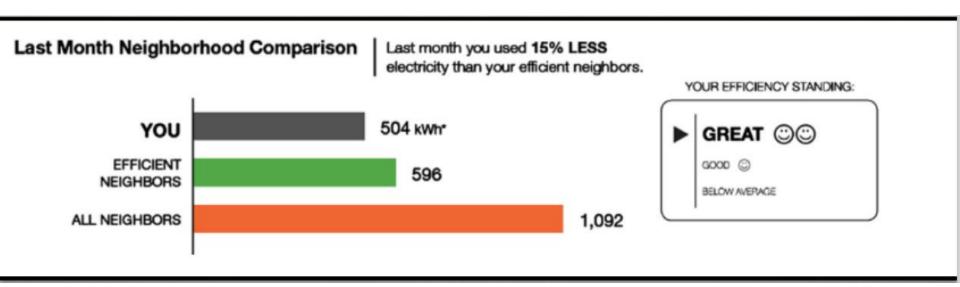


Incentives

- Massachusetts General Physicians Organization Quality Incentive Program
 - Advance Incentive Payment
- MACRA and MIPS
 - Medicare Payment Adjustments (+/-) based on measures of quality/value

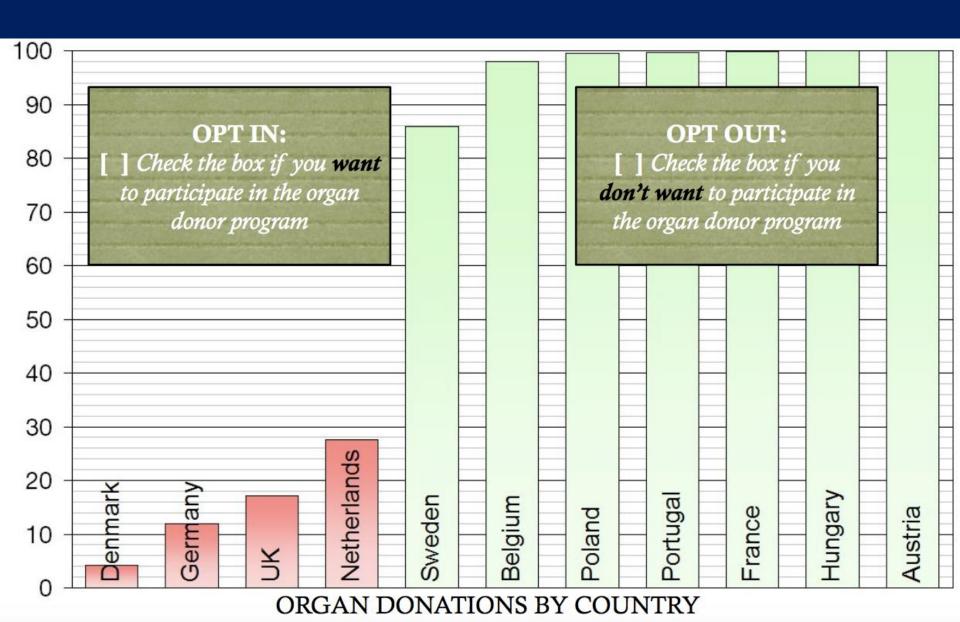


Norms

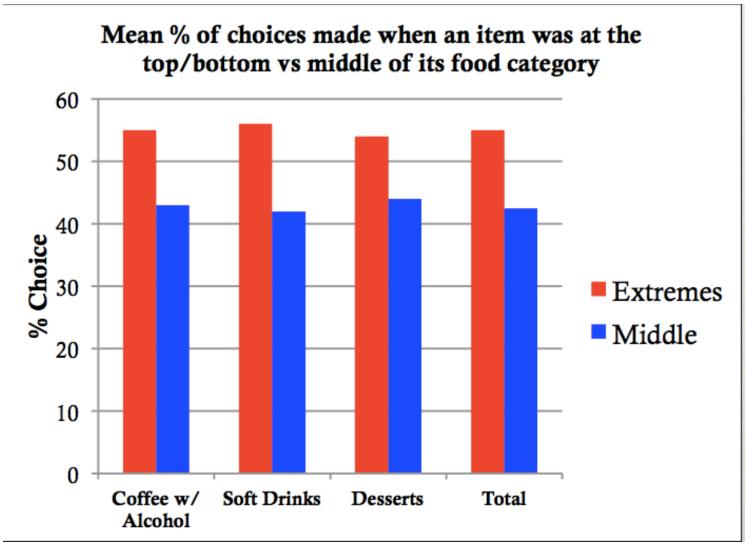




Defaults

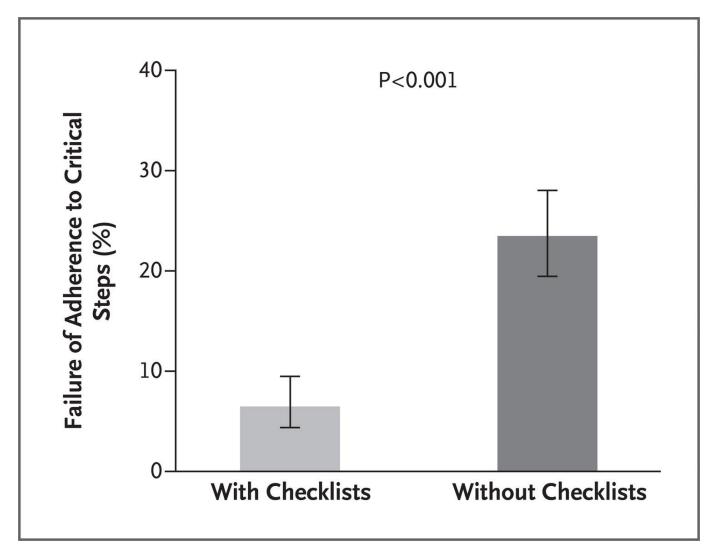


Salience





Salience





Priming







+18% (p<.05)

No Difference

+32% (p<.001)



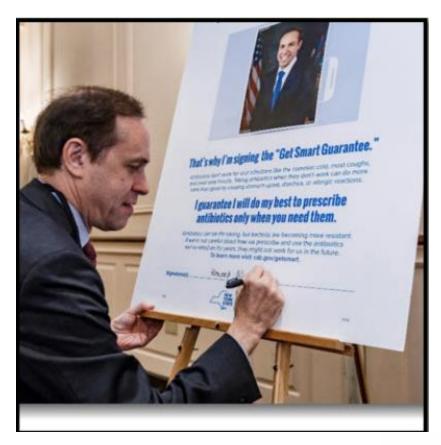
Affect

Stories and individuals



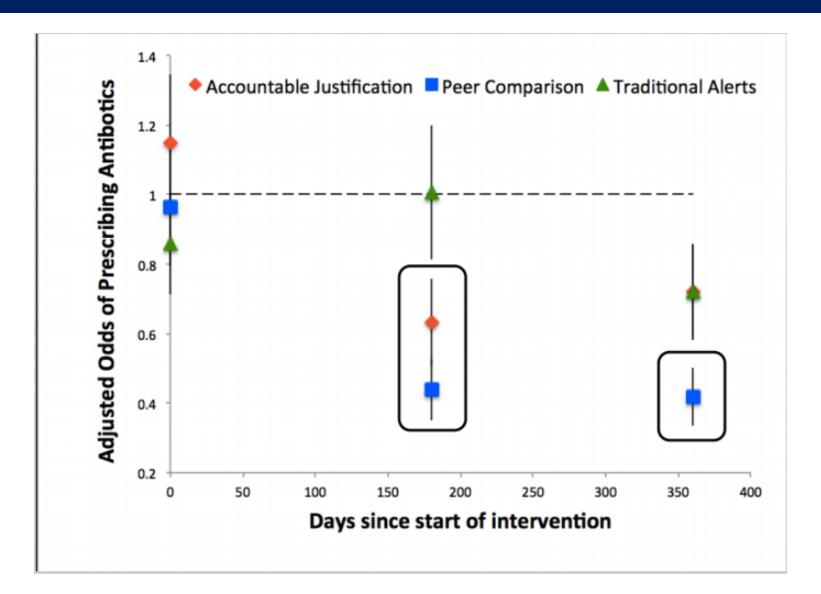
Commitment

- Displayed poster sized
 "commitment letters" in exam
 rooms for 12 weeks during cold
 and influenza season
- Letters had photo of PCP and signature
- Randomized 14 clinicians, 5 clinics, 1000 adult patients with URI
- Baseline prescribing rates
 42.8% intervention arm and
 43.5% control arm
- Reduction of 10% in Rx rate in intervention arm (p<.05)





Ego





Summary

- How we make decisions (bias and context) impact our ability to provide high value care
- Changing behavior is hard but we can leverage our understanding of how humans make decisions to help us make better decisions

