## HARD Evidence for the Soft Skills



Justin Brandler, MD Neurogastroenterology & Motility

#### Who is this guy?

#### Home Grown





#### Who is this guy?

Home Grown



Diversely Trained











## Who is this guy?

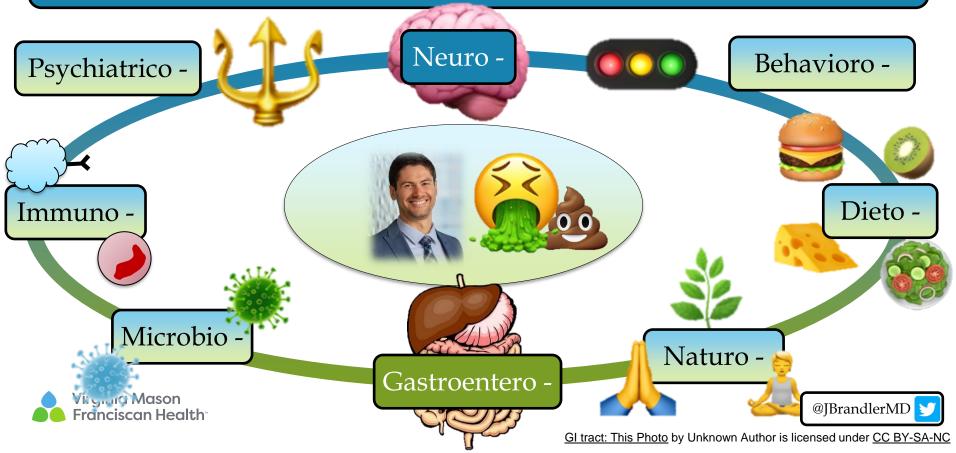




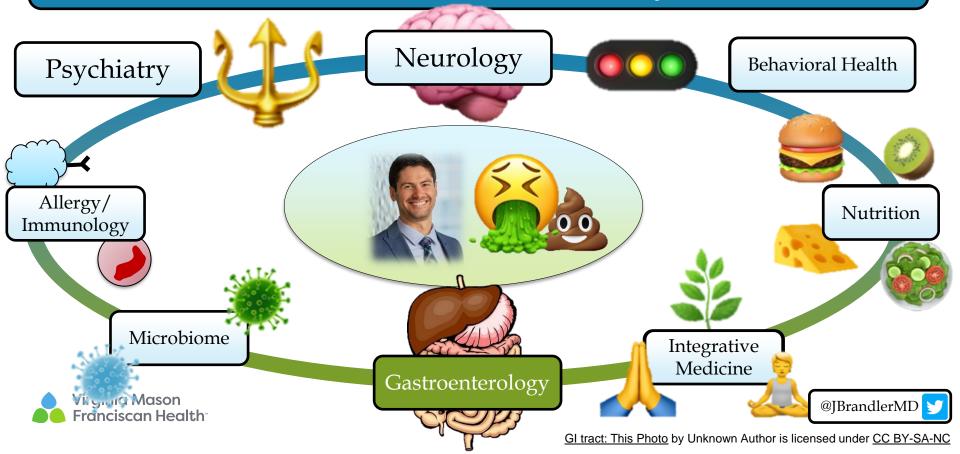




#### What's his specialty?

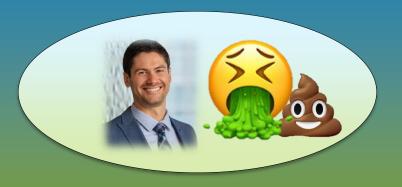


#### What's his specialty?



#### What's his specialty? (in reality)

#### Integrated



Gastroenterology





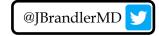
#### What's his specialty? (in reality)

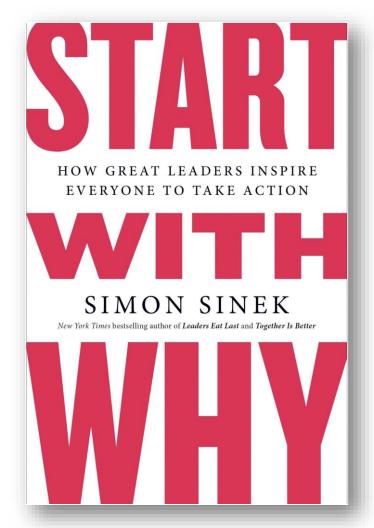
#### Integrated



Gastroenterology

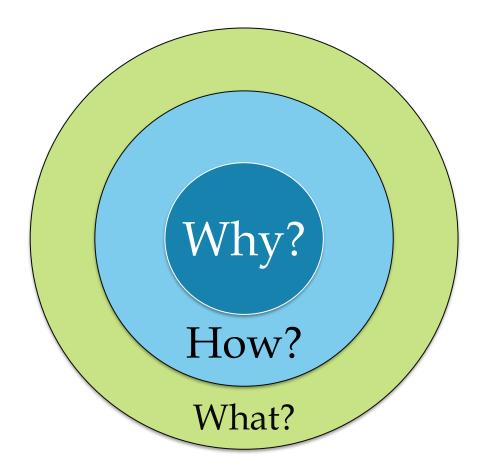
















## What's my Why in Medicine?

Doctor = "Teacher"

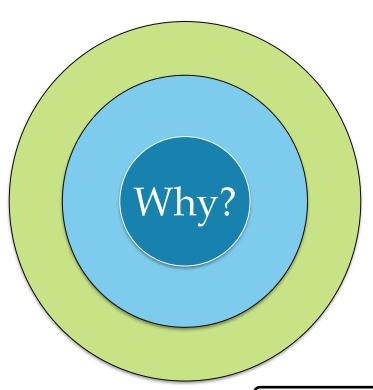


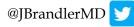
Physician = "Healer"

Revitalize our roles as

"Teachers"

& "Healers"





## What's my Why in Medicine?

Rehumanize Healthcare





## What's our Why in Medicine?

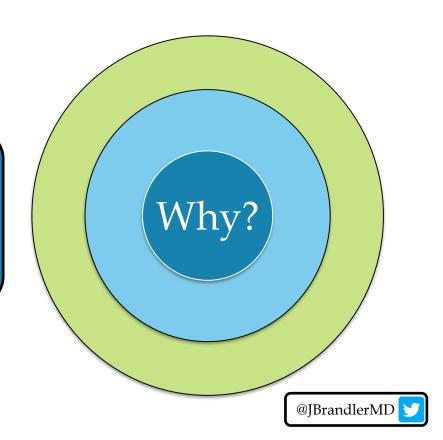
# Hello humankindness®





## What's my Why in GI?

Transform Stigma of "functional" Gl disease





## What's my How?

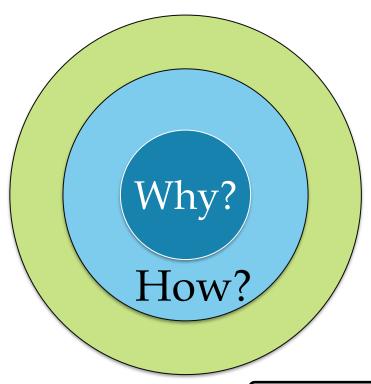
Evidence Based Medicine



**Evidence Based Education** 

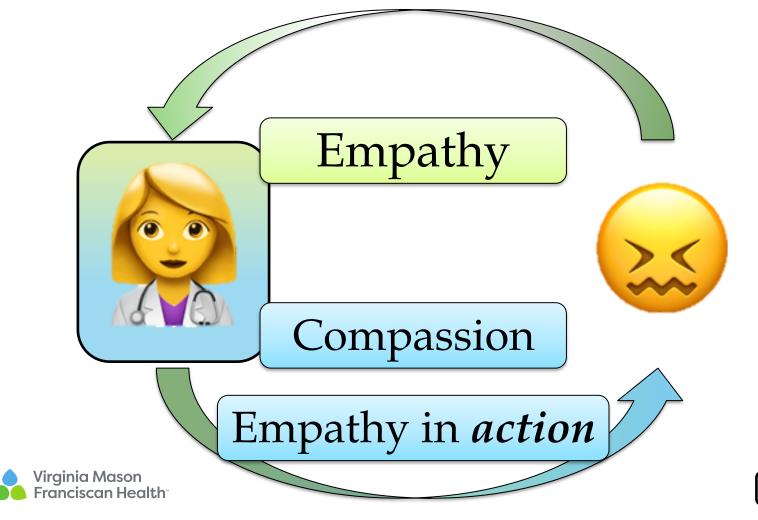


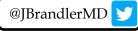
Evidence Based Compassion











"Components of Placebo Effect: RCT in Patients with IBS"

- Single center, 262 subjects with Rome II IBS, 3 week intervals x 2
- Intervention Groups:

Waiting list observation: control

Limited placebo: sham acupuncture alone

Augmented: sham acupuncture + augmented patient-provider relationship

Outcome: validated symptom and QoL scales





What does "augmented patient-provider relationship" mean?

Initial visit 45 minutes

9 item agenda for encounter
 Content Goals (4):

?'s on GI and non-GI symptoms, patient's understanding of IBS





What does "augmented patient-provider relationship" mean? Style Goals (5): Warmth, active listening skills

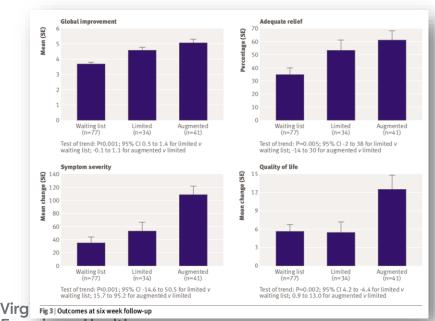
- **Empathic** statements: "I can understand how difficult IBS must be for you"
- Twenty seconds thoughtful silence feeling pulse or pondering plan
- Communicate confidence, positive expectations:

ciscan Health

"I have had much positive experience treating IBS"



#### Did compassion make the difference?



#### **Adequate Relief Responders**

- Waiting list (35%)
- Limited (53%)
- Augmented (61%)



**NNT** for Compassion (Adequate relief of IBS sx's)

12.5 (vs. sham acupuncture)

3.8 (vs. observation)

Franciscan Health

Kaptchuk TJ, Lembo AJ et al. BMJ 2008.



**NNT** for Compassion (Adequate relief of IBS sx's)

3.8 (vs. observation)

**NNT** for Anti-depressants (Improved IBS symptoms vs. placebo)

4.5 (TCA's) 5 (SSRI's)

**NNH** for Compassion

**oo** ?

**NNH** for Anti-depressants

**8.5** (TCA's, SSRI's)



Kaptchuk TJ, Lembo AJ et al. BMJ 2008.

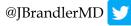


## IF YOU REMEMBER NOTHING ELSE

# Compassion Matters in IBS (especially first impressions)

NNT = 3.8

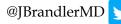




#### IF YOU REMEMBER NOTHING ELSE







#### What this talk is NOT

- Kumbaya session
- Guilt trip
- Personal virtue signaling





#### What this talk is

- Outlining evidence for compassionate care
- Integrating evidence into our practices



#### COMPASSION OMICS

THE REVOLUTIONARY
SCIENTIFIC EVIDENCE

THAT CARING

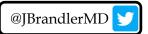
MAKES A DIFFERENCE



STEPHEN TRZECIAK ANTHONY MAZZARELLI

Foreword by SENATOR CORY BOOKER





#### Compassion = Empathy in Action

Overwhelming scientific data shows objective impact on:

- Physiologic outcomes
- Patient self-care & medication adherence
- Health care quality metrics
- ↑ revenue + ↓ costs
- ↓ provider burnout





#### Compassion = **Empathy** in *Action*

#### Overwhelming scientific data shows objective impact on:

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↓RR + ↓HR ↑ HR Variability

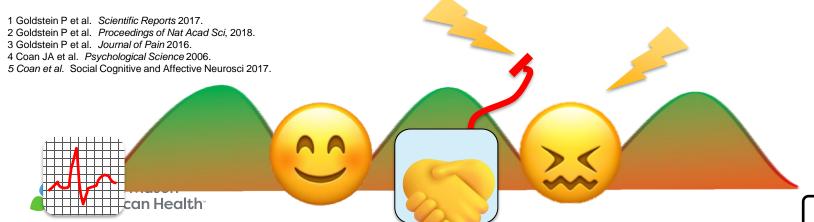


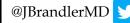
↑ Cardiovagal Health ↑ Adaptability to stress



#### Compassionate touch from trusted relationship can lead to:

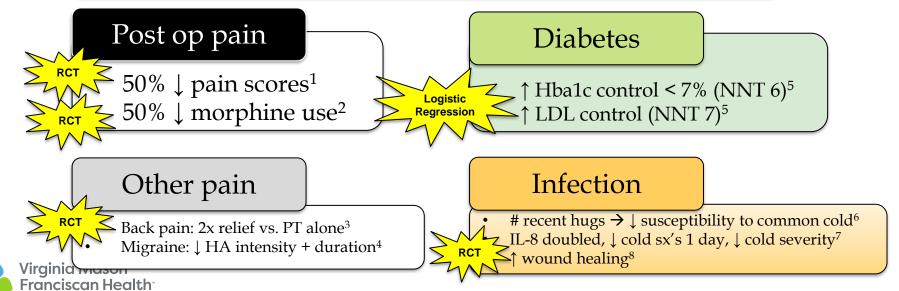
- "physiologic coupling" of HR/RR<sup>1</sup> and brain waves<sup>2</sup>
- ↓ pain perception by 50%³
- likely mediated via \( \perception of threat via fMRI^{4,5} \)







#### Compassionate providers are the treatment



1 Pereira L et al. *Patient Ed and Counseling* 2016 3 Fuentes J et al. *Physical Therapy* 2014 2 Egbert LD et al. *NEJM* 1964 4 Attar HS et al. *Annals Indian Neuro*, 2012

5 Hojat M. et al. *Academic Medicine* 2011 7 Rakel D et al. *Family Medicine*, 2009 6 Sheldon C et al. *Psychological Science*, 2015 8 Pereira L et al. Patient Ed & Counseling 2016



"Public Health

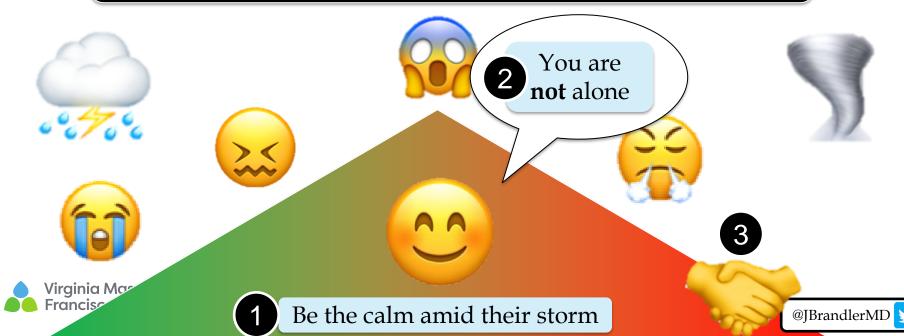
#### Loneliness KILLS

- Comparable to risks of smoking and EtOH abuse<sup>1</sup>
- Worse than obesity and HTN<sup>1</sup>
- 50% ↑ decline of ADL's² & cognitive decline³
- $\downarrow$  Immune response to flu vaccination<sup>4</sup> +  $\uparrow$  susceptibility to common cold<sup>5</sup>
- Chronic inflammation<sup>6</sup>



Mortality<sup>1,2,7,8</sup>

Evidence Based Tips to Harness Compassion Physiology





Fecalith #1

Compassionate interactions can change physiologic outcomes





## Neurogastro-Compassionology "There's not enough time"





of physicians believe they don't have enough time to treat patients with compassion<sup>1</sup>

@JBrandlerMD



# Neurogastro-Compassionology "There's not enough time"

40 Seconds

210 women 123 BrCA

survivors

Randomized

Fluke?



Standard consultation video

**Enhanced compassion interaction video** 

† Positive attributes of doctor "I know this is a tough experience to go through. I want you to know that I am here with you. Some of the things that I say to you today may be difficult to understand, so I want you to feel comfortable stopping me If something I say is confusing or doesn't make sense.

We are here together, and we will go through this together."

End of consultation...

"I know this is a tough time for you and I want to emphasize again that we are in this together. I will be with you each step along the way."

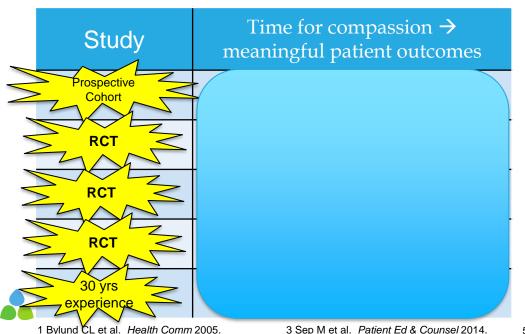
**Primary** Outcome:

Validated **Anxiety** Scale

Fogarty et al. J Clin Onc 1999.



# Neurogastro-Compassionology "There's not enough time"



Median time

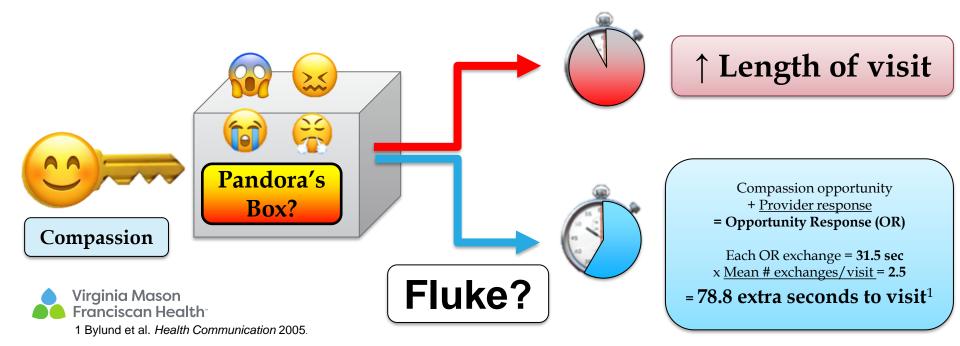
40 seconds



5 Roter et al. Archives of IM 1995.

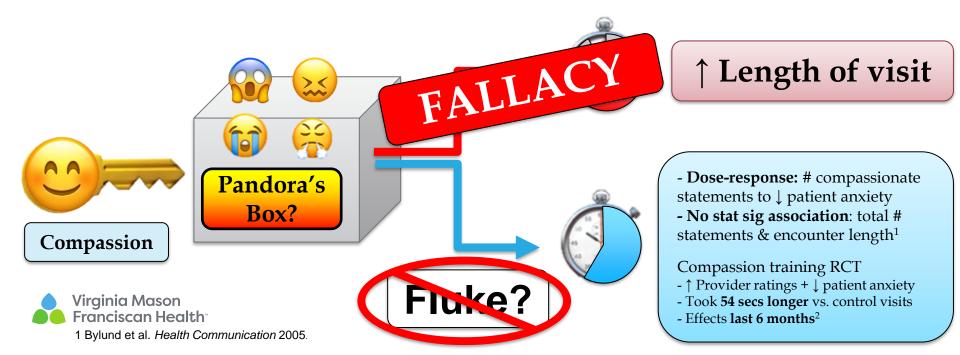


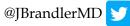
# Neurogastro-Compassionology Pandora's Box Fallacy



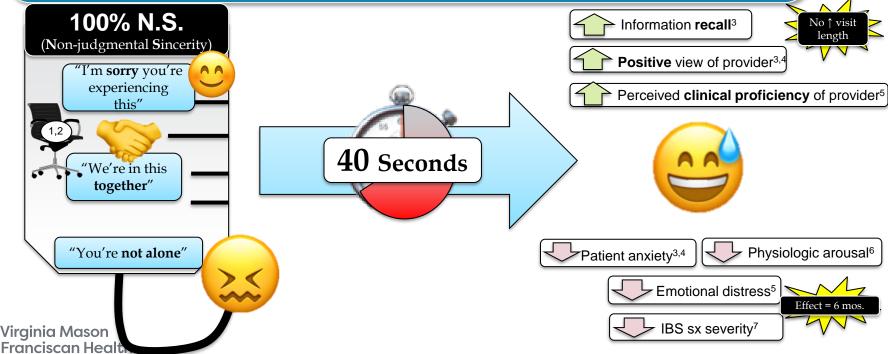


# Neurogastro-Compassionology Pandora's Box Fallacy





# Neurogastro-Compassionology "There's not enough time"



1 Swayden et al. *Patient Ed Couns.* 2012. 2 Merel SE, et al. *J Hosp Med.* 2016.

3 van Osch M et al. *Health Psychology* 2014. 4 Fogarty LA et al. *J Clin Oncology* 1999.

5 Roter DL et al. Archives of IM 1995. 6 Sep M et al. Patient Ed and Couns 2010.

7 Kaptchuk TJ et al. BMJ 2008

# Neurogastro-Compassionology



Fecalith #2

If you have 40 seconds, there is always time for compassion





# Break for Insanely cute toddler curls ...



### Compassion = Empathy in Action

#### Overwhelming scientific data shows objective impact on:

- Physiologic outcomes
- Patient self-care & medication adherence
- Health care quality metrics
- ↑ revenue + ↓ costs
- ↓ provider burnout





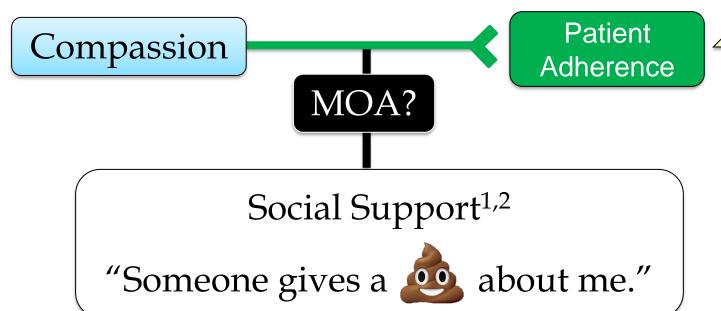
"Drugs don't work in patients that don't take them"

- Surgeon General Dr. C. Everett Koop

Patient non-adherence = an epidemic<sup>1</sup>

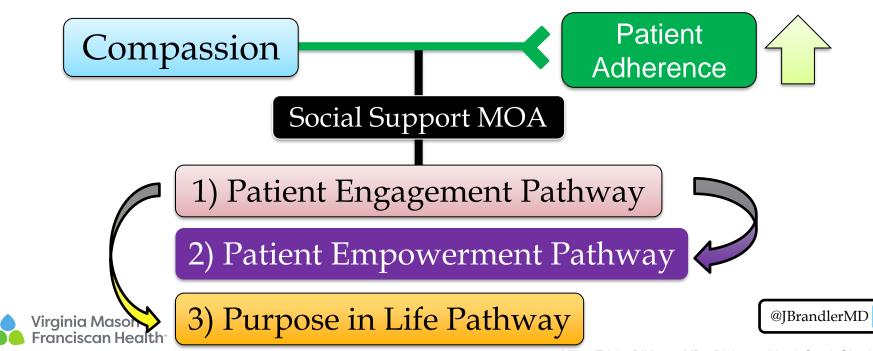
Patients only take about  $\frac{1/2}{2}$  of their prescribed doses<sup>2,3</sup>

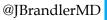
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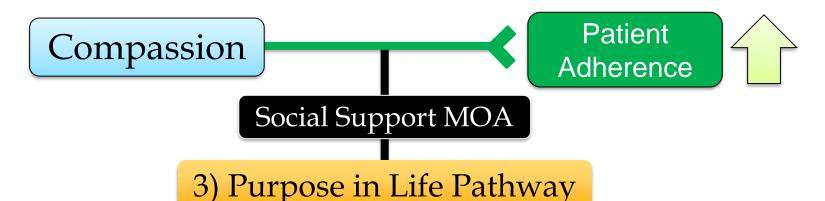










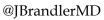


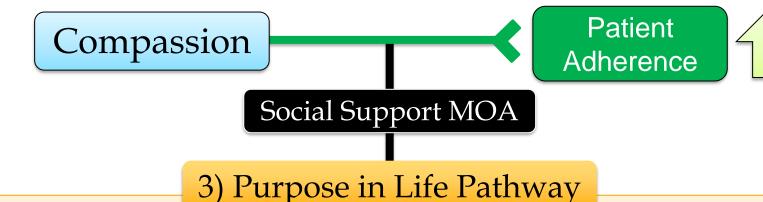
- $\uparrow$  Purpose in life  $\rightarrow$   $\uparrow$  Preventative service usage<sup>1</sup>
- <u>↑ aOR's</u> (high vs. low purpose)
  - cholesterol test (1.40 [1.15-1.70])
  - mammogram (1.57 [1.29-1.92])
  - pap smear (1.37 [1.12-1.67])
  - prostate exam (1.55 [1.23-1.95])



- No change:
  - Flu shot (1.01 [0.97-1.11])
  - Colonoscopy (1.06 [0.99-1.14])

1 Kim ES, et al. Proceedings of Nat Acad Sci, 2014.

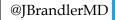




- ↑ Purpose in life →
  - ↓ **nights** in hospital<sup>1</sup>
  - ↑ pep in step (walking speed with age)<sup>2</sup>
  - \(\psi\) incidence **sleep disturbances**<sup>3</sup>
  - \( \text{CV events,}^4 \text{ heart attacks,}^5 \text{ strokes}^6 \)
  - ↓ All-cause mortality<sup>4,7</sup>



- 1 Kim ES, et al. Proceedings of Nat Acad Sci, 2014.
- 2 Kim ES, et al. JAMA Psychiatry, 2017.
- 3 Kim ES, et al. J of Behav Medicine, 2015.
- 4 Cohen R et al. Psychosomatic Med, 2016.
- 5 Kim ES, et al. J of Behavioral Med, 2013.
- 6 Kim ES, et al. J of Psychosomatic Research, 2013.
- 7 Hill PL, Turiano NA Psychological Science, 2014.



TRUST
Acceptance
Respect
Empathy
Compassion Experience Wait time COST Prestige of training

Virginia

Kurlander JE, Chey WD, Drossman DA et al. Neurogastroenterol Motil. 2017.

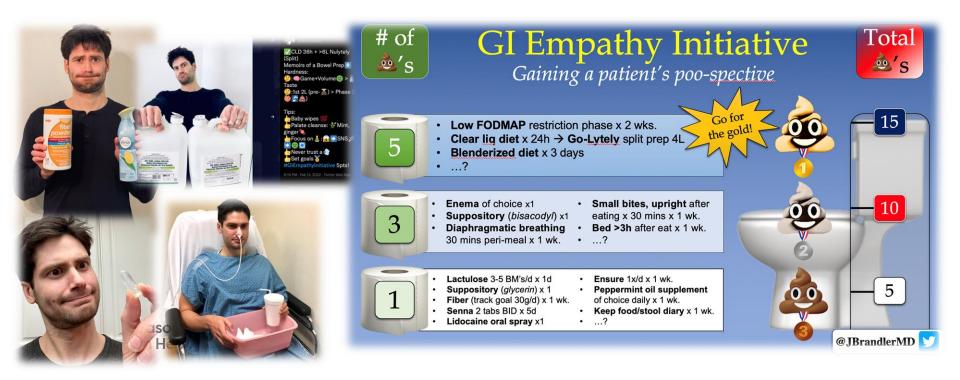
Franciscon Hetblottor's Interpersonal Skills Are Valued More than Training." Wall Street Journal, September 2004.



Giving a about your patients
Can ↑ treatment adherence







# #GIEmpathyInitiative Demonstration





### Compassion = **Empathy** in *Action*

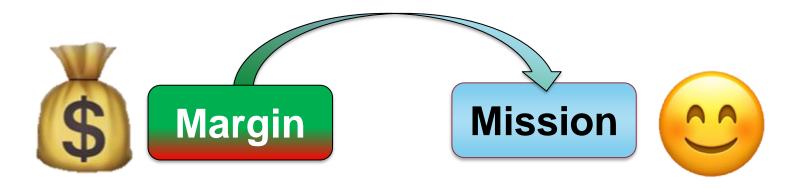
#### Overwhelming scientific data shows objective impact on:

- Physiologic outcomes
- Psychological outcomes
- Patient self-care & medication adherence
- Health care quality metrics
- ↑ revenue + ↓ costs
- ↓ provider burnout





"Show me the money..."

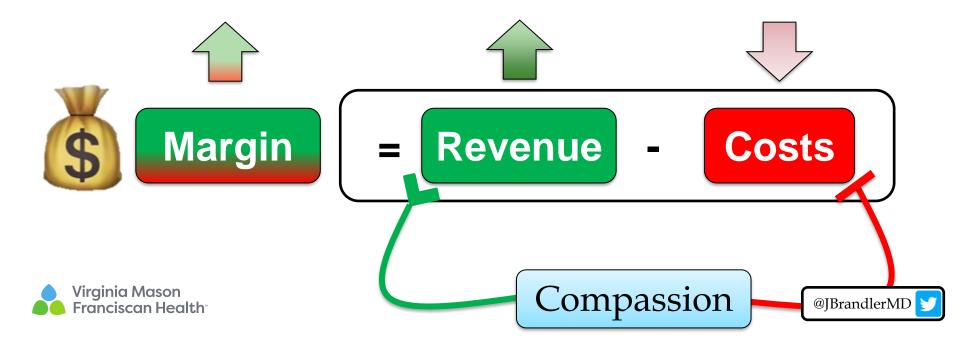


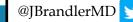


"No Margin, No Mission"



### Neurogastro-Compassionology Financial Outcomes "Show me the money..."





Compassion





Margin

High

Patient Experience

vs. low

performers<sup>1</sup>

4.8%

1.8%









 Compassion = 65% of variation for satisfaction (controlled for confounders)<sup>2</sup>

1 Betts, D et al Deloitte Center for Health Solutions, 2016. 2 Menendez M et al. *J Hand Surgery*. 2015.

Compassion



Revenue



- Patients would pay more for compassion
  - 87% felt kindness more important than any other consideration:
    - Included wait time, distance from home, cost<sup>1</sup>
  - 85% would choose compassion OVER pricing when choosing a doctor<sup>2</sup>



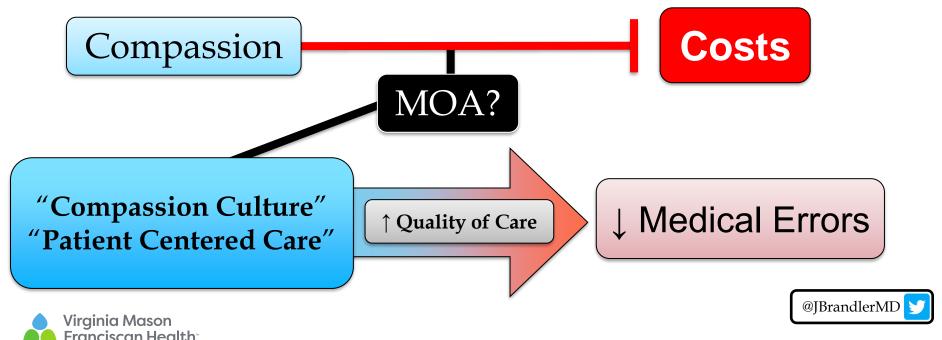


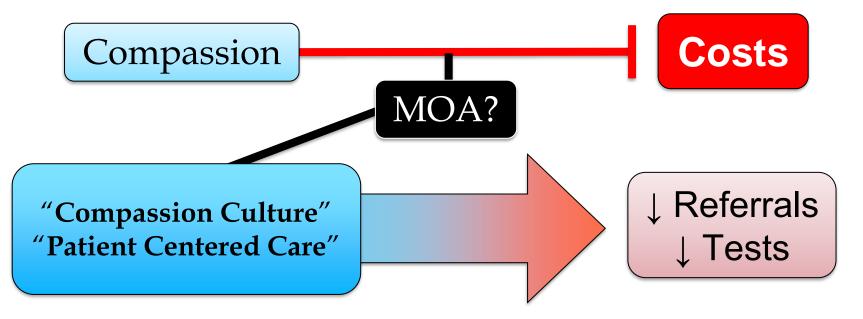
Patients perceive compassionate physicians as more competent<sup>3-5</sup>



- 1 Davis, L. Dignity Health Survey of 1400 adults, news release, 2013.
- 2 HealthTap, 2018. www,businesswire.com/news/home/20180206005704/en/Survey-Reveals-85-Percent-Patients-Choose-Compassion
- 3 Ogle, J et al. Medical Education, 2013.
- 4 Kraft Todd, et al. PLOS One, 2017.
- 5 Comstock, L et al. J of Med Education, 1982.













Compassion



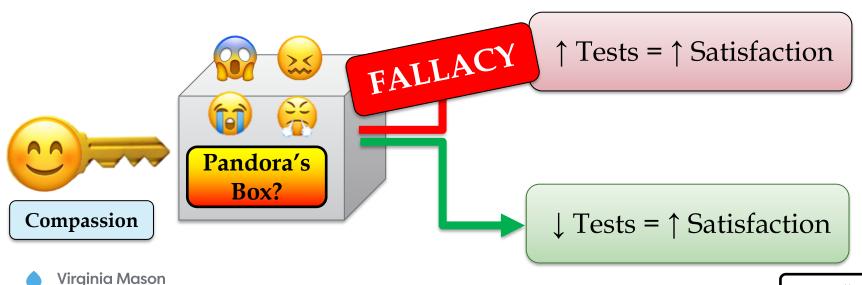
Myth

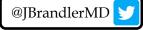
"My doctor is the best. She orders every test under the sun."



- If patient perceived care as "patient centered": ↓ 51% specialist referrals + ↓ 40% diagnostic tests
- If patient perceived "common ground has been attained": ↓ 59% specialist referrals + ↓ 84% diagnostic tests¹

# Neurogastro-Compassionology Pandora's Box Fallacy



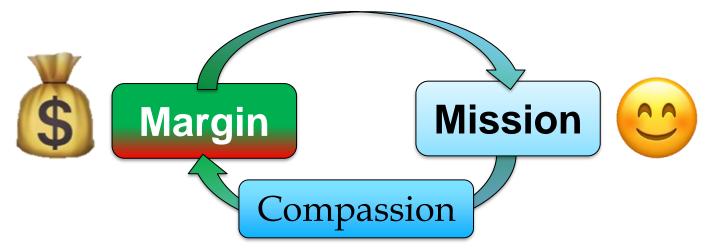


Franciscan Health

### Neurogastro-Compassionology Financial Outcomes "Show me the money..."

Margin Revenue Costs Compassion Virginia Mason @JBrandlerMD ranciscan Health

"No Margin, No Mission"





"No Mission, No Margin"

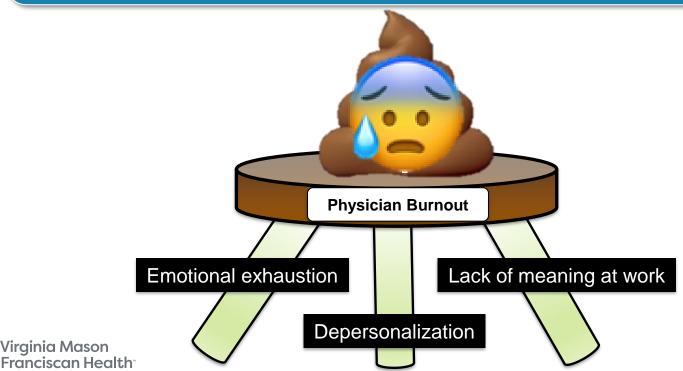




Patients (Consumers) care more about how you make them feel than what you know ...which will help your bottom line

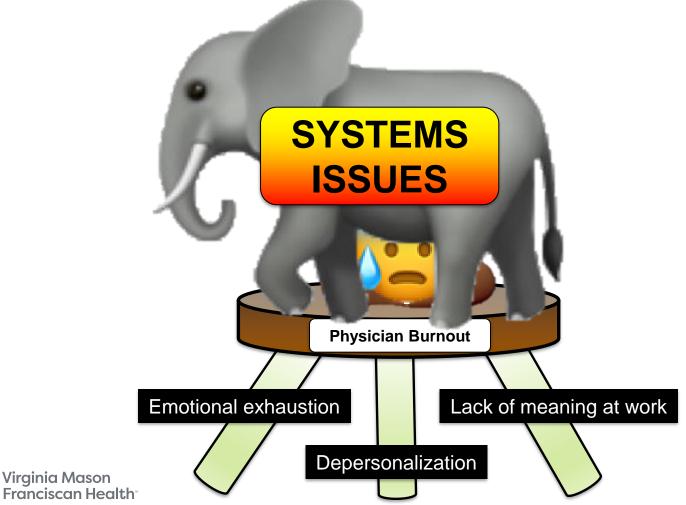


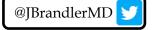




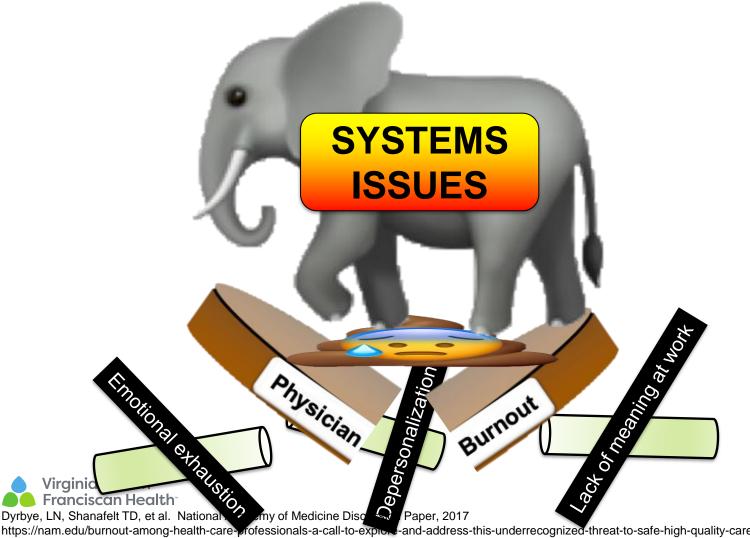


Virginia Mason





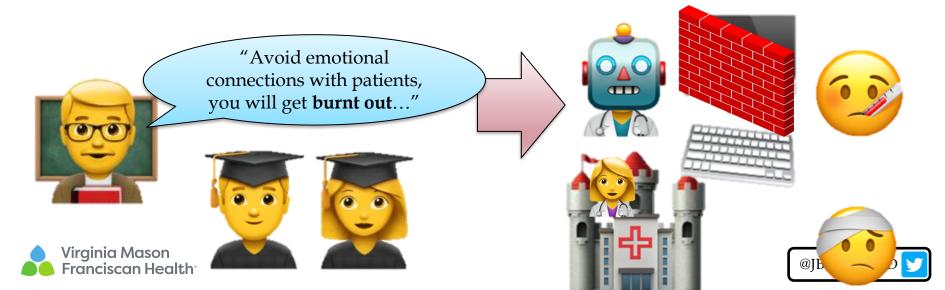
Virginia Mason





#### Traditional Medical Teaching

"Escapism"

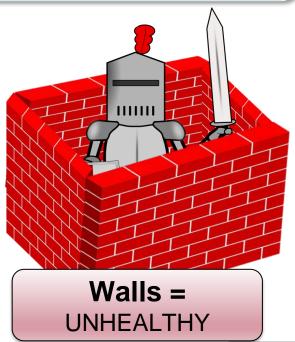






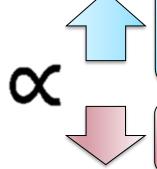
**Boundaries =** HEALTHY











- Personal accomplishment<sup>1</sup>
- Respect by trainees<sup>2</sup>
- Self-regulation of emotions<sup>3</sup>
- QoL<sup>1</sup>
- Depressive symptoms<sup>1</sup>
- Burnout (+ vice versa)4,5

Physicians **most dissatisfied** in relationships with patients risk of burnout:

OR 22.1 <sup>6</sup>



Caveat: Many are cross-sectional survey studies 1 Shanafelt T et al. *J of Gen Int Med* 2005. 2 Wright SM et al. *NEJM* 1998.

3 Engen HG, Singer T. Social Cogn & Affect Neurosci 2015.

4 Gleichgerrcht, E, Decety J. PLOS One 2013.

5 Thomas MR et al. *J of Gen Int Med*, 2007 6 Chen KY et al. *Int J of Med Sci*. 2013.

@JBrandlerMD



**Provider Burnout** 





Compassion

#### **Prospective Data**

- ↑ well being scores, ↓ burnout scores x 8 wks.¹
- emotional regulation/calmness, \uparrow anxiety/depressive sxs's **x 6 mos**.2
- pre-existing depressive sx's, most effect: ↑ depression at baseline<sup>3</sup>
  21 RCT's, 1200 participants:<sup>4</sup>
- 21 RC1's, 1200 participants:
- ↓ depression, anxiety, psych distress
- ↑ enhanced well being

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Meta-Analysis

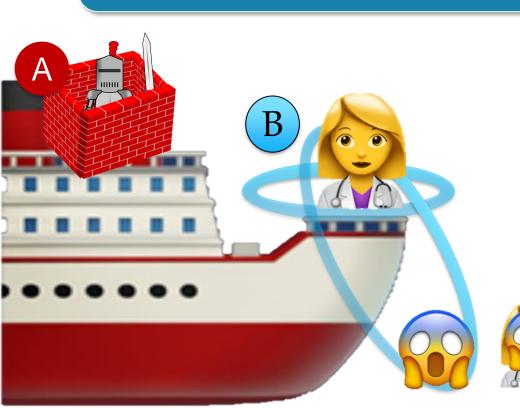
1 Krasner MS, et al. JAMA 2009.

2 Mongrain M et al. *J of Happiness Studies* 2011.

3 Mascaro J, et al. J of Positive Psychology 2018.

4 Kirby JN et al. Behavior Therapy 2017.

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#### Walls

↓ Job satisfaction, ↑ Burnout



#### **Healthy Boundaries**



#### Enmeshment

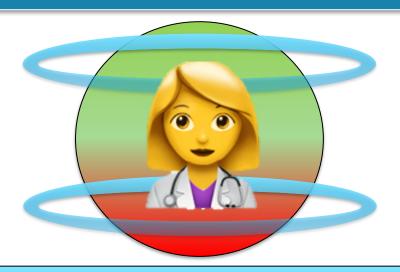
Non-sustainable, ↑ Burnout







#### Neurogastro-Compassionology Provider Outcomes: Burnout



"Strong Back, Warm Front"

- Brown, Brené







Fecalith #5

Compassion
can
Protect the Healer





#### Standing on the shoulders of giants...

Gastroenterology 2021;161:1670-1688

#### SPECIAL ARTICLE

A Review of the Evidence and Recommendations on Communication Skills and the Patient-Provider Relationship: A Rome Foundation Working Team Report



Douglas A. Drossman,<sup>1</sup> Lin Chang,<sup>2</sup> Jill K. Deutsch,<sup>3</sup> Alexander C. Ford,<sup>4,5</sup> Albena Halpert,<sup>6</sup> Kurt Kroenke,<sup>7</sup> Samuel Nurko,<sup>8</sup> Johannah Ruddy,<sup>9</sup> Julie Snyder,<sup>10</sup> and Ami Sperber<sup>11</sup>





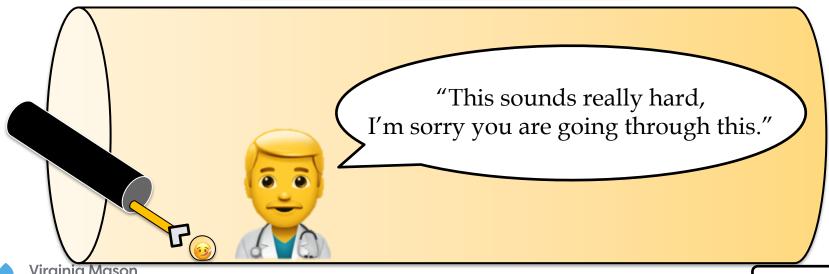
Standing on the shoulders of giants...







# **Application** *Simple*











# Practical Examples Simple Statements



"I understand how you feel."

Jump to solving the problem

Find silver lining: "At least..."

Virginia Mason
Franciscan Health

"I'm sorry you're going through this."

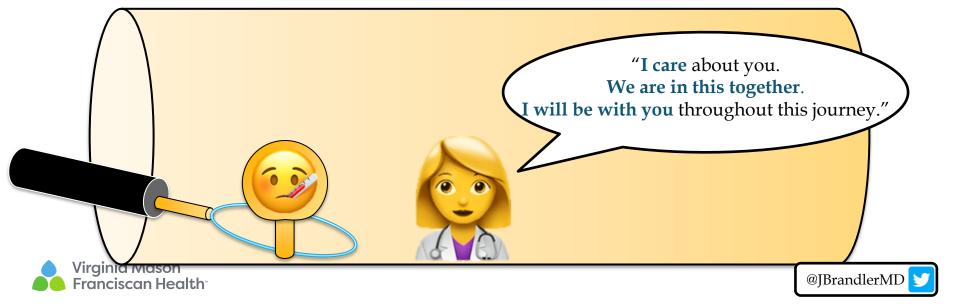
"What's your main concern right now?"

Validate feelings:

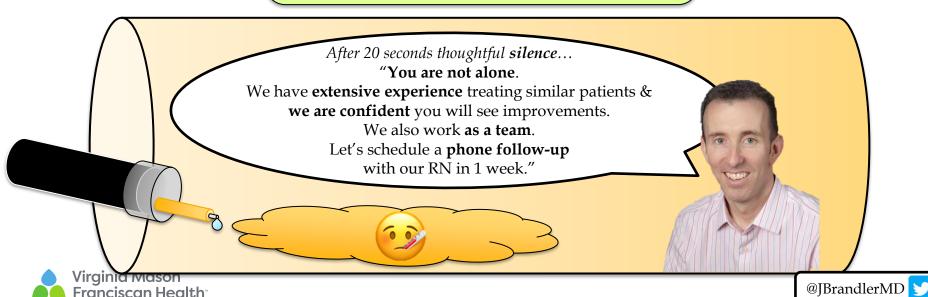
"It sounds like you are worried about..."

### Application

Intermediate



# **Application** *Advanced*



## Wrap-Up



#### IF YOU REMEMBER NOTHING ELSE

# WE are the treatment

NNT = 3.8







**#1** Compassion changes **physiology** 



**#2** All you need is **40 seconds** 



**#3** Can ↑ adherence & self-care

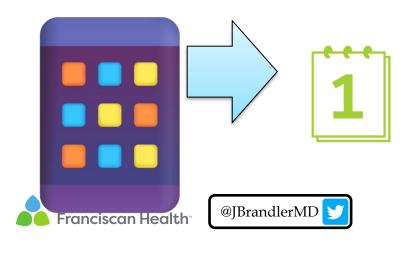


#4 Can † profit margins



**#5** Can protect the healer

#### Make it Stick!





#### **Make Event (a)**:



- 3 days from now
- 2 things you learned
- 1 change to practice



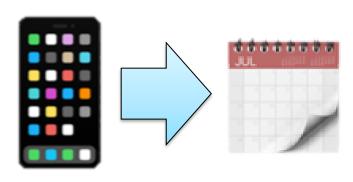
#### Make Event





- 2 weeks from now
- 2 things you learned phrased as ?'s
- 1 change to practice

#### Make it Stick!







- 3 days from now
- 2 things you learned
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#### Make Event

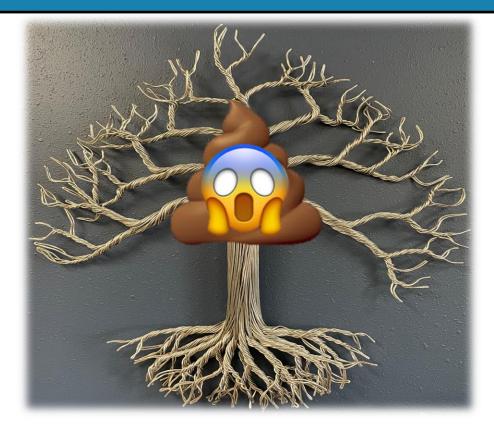


- 2 weeks from now
- 2 things you learned phrased as ?'s
- 1 change to practice





#### Building something bigger than ourselves...







#### Building something bigger than ourselves...



# Thank you for all you do!

What do you think?



