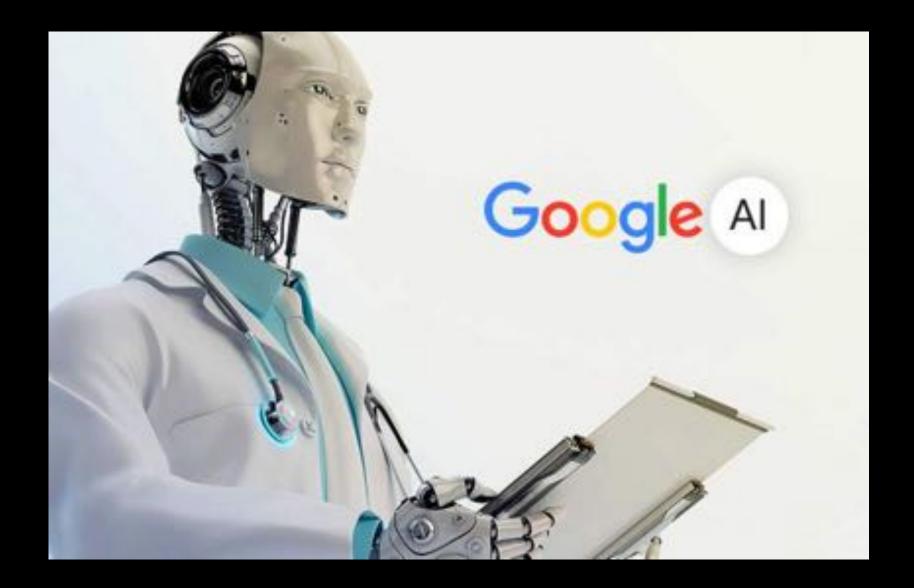
Saving Doctors from Themselves: Designing Medicine with Empathy and Compassion



Sharad Pau

drsharadpaul.com

UTOPIA OR DYSTOPIA? VISIONING THE FUTURE OF HEALTH



LIFE WAS MUCH EASIER **WHEN** Apple **AND** BLACKBERRY WERE JUST FRUITS



GENETICS OF HEALTH

Understand Your Genes for Better Health

SHARAD P. PAUL, MD

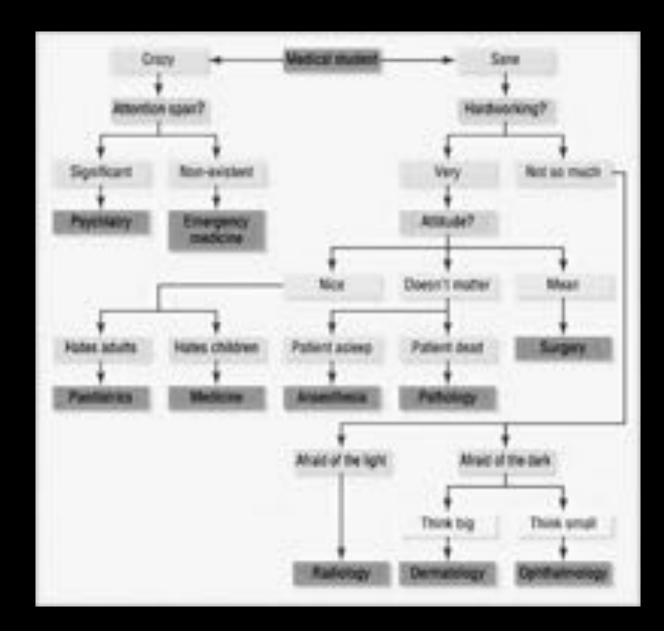
"In Australia, "going walkabout" refers to a rite of passage that the Aboriginal people undertake—a time of solitude spent searching for "songlines" of their ancestors—the idea being to imitate the past and return with renewed energy to face the future

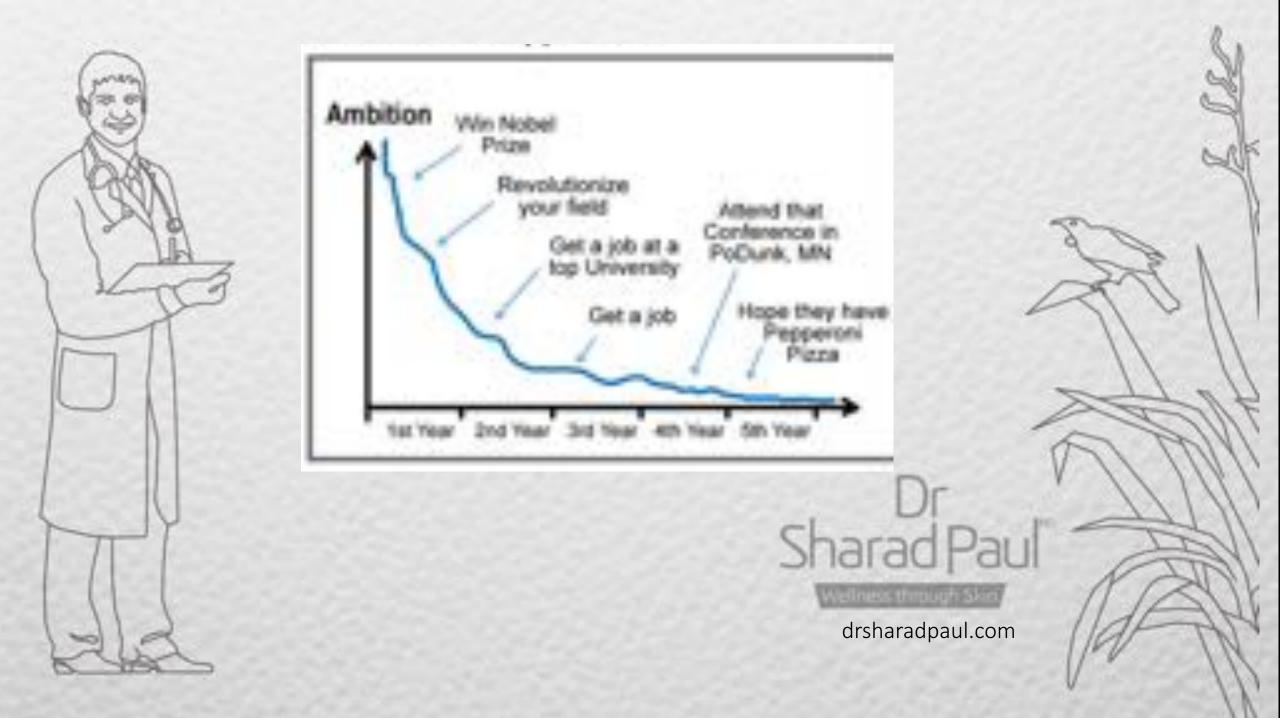
... That's why songlines matter;
our history makes us more
than we make history."
~ Sharad P Paul, *The Genetics*of Health (Simon and Schuster)

A Revolutionary Guide to Living Well

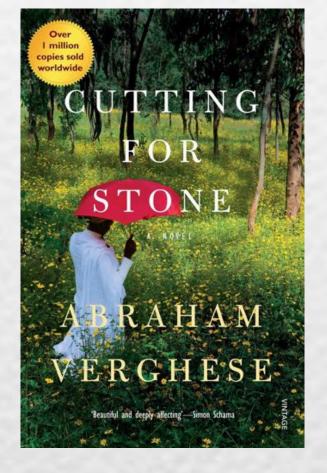
- Know how your genes affect your body's response to drugs before you fill that prescription.
- · Discover what exercises will keep your brain alert and elastic for life.
- Do you have a "sluggish gene"? Find out how to overcome a propensity for laziness and procrastination.
- Know what your genetic variations have to do with how you respond to different foods.
- Understand the reason for your stress response and how to manage it without drugs.
- · Learn what the size of your gut has to do with your brain's performance.

"Reading Dr. Paul's book is like taking an exhilarating journey through the shifting landscape of genetics, health, and evolution." —Siddhartha Mukherjee, Pulitzer Prize winner for *The Emperor of Maladies: A Biography of Cancer*



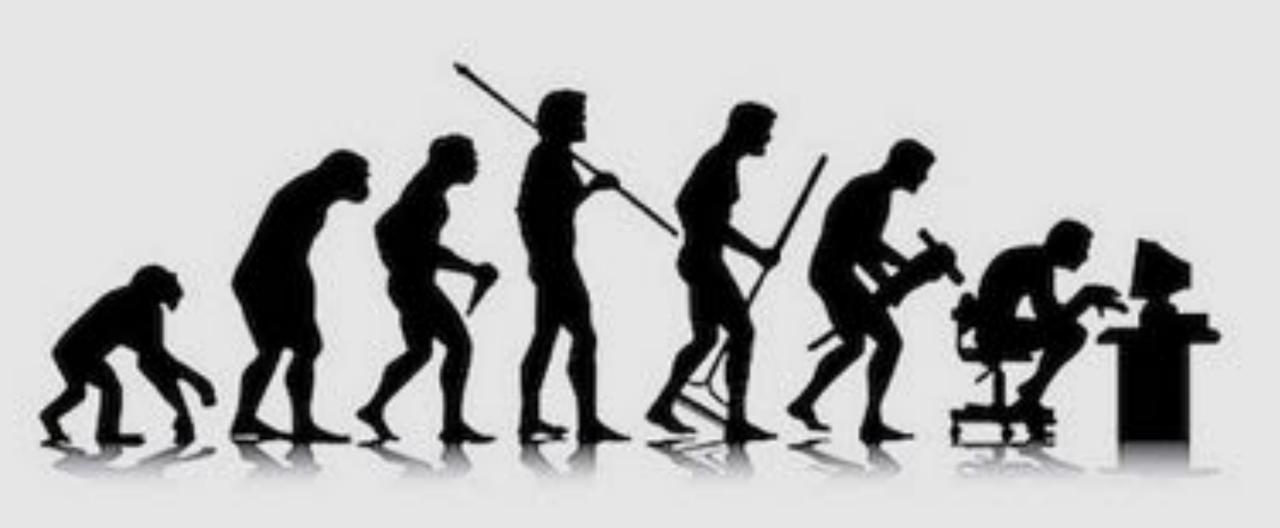






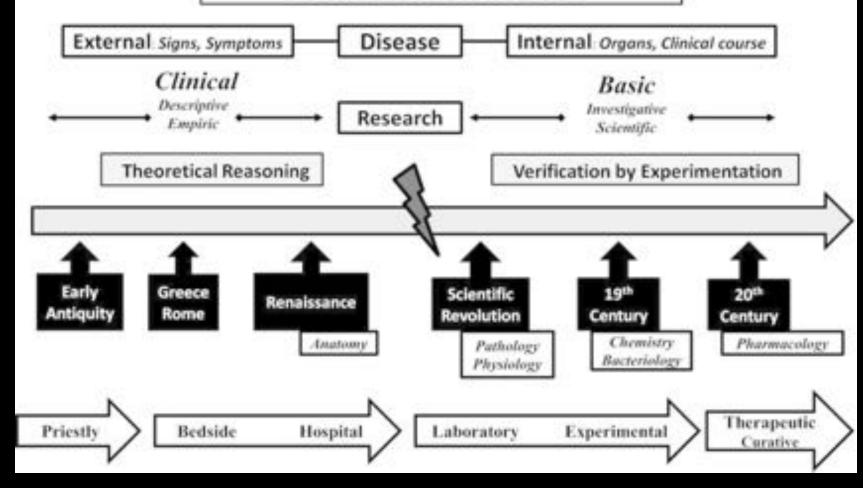
"Students undergo a conversion in the third year of medical school - not pre-clinical to Sharad Pau clinical, but pre-cynical to cynical." ~Abraham Verghese

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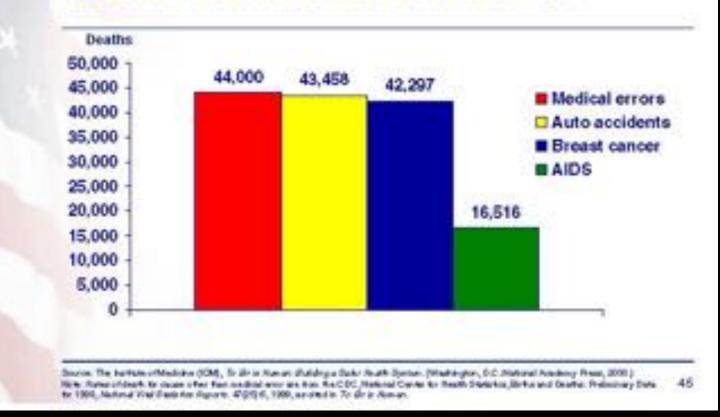
Evolution of Medical Knowledge

"SCIENTIFICATION"



GAO

Deaths due to medical errors in hospitals are higher than certain other causes of death in the U.S.

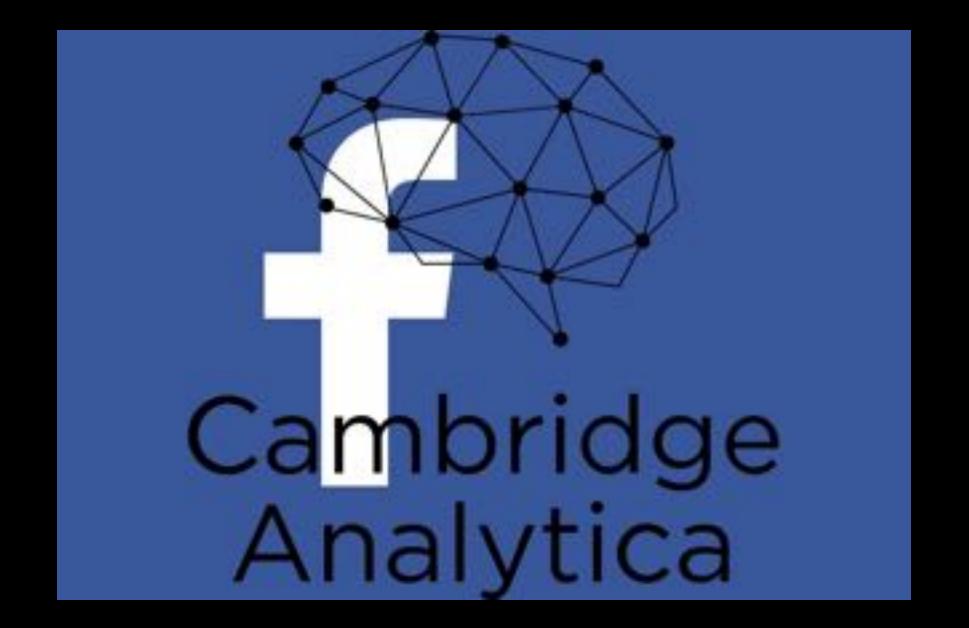






Proceduralists

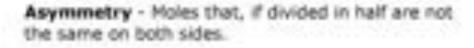
Personal-physicians



ALGORITHMS: MELANOMA DIAGNOSIS EDUCATION



-



Border - Moles with edges that are jagged like a coastline.

Colour - Moles gaining or losing colour, or multicoloured.

Diameter - Holes more than 1/2 cm in diameter (especially if uneven colour).

Evolution - Moles that have changed size, shape, colour or risen.







(AAU)ARY 25, 2017 Deep learning algorithm does as well as Stanford dermatologists in identifying skin cancer Science Sell-taught artificial intelligence beats doctors at predicting heart attacks

to detailed the test in the local distance

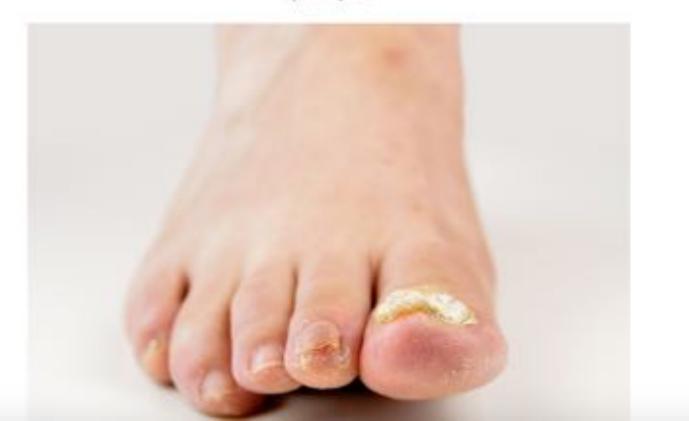
The Human OS | Robotics | Artificial Intelligence

26 Feb 2018 | 17:30 GMT

Al Beats Dermatologists in Diagnosing Nail Fungus

Deep learning algorithms beat 42 dermatology experts at diagnosing nail fungus infections

By Jeremy Hsu



"There are in fact two things, science and opinion; the former begets knowledge, the latter ignorance" ~ Hippocrates



"... The public would be shocked if it knew the amount of unnecessary surgery performed"

~ Hawley P, Director of the American College of Surgeons (ACS), 1953

"We perform surgery because we have been trained to do so and because "we have always done it this way" or we simply do not know any better. In German psychology, this behaviour is analogous to a historic entity termed "Funktionslust" ~ Stahel PF. Blood, sweat and tears — becoming a better surgeon. Shropshire, UK: TFM Publishing; 2016. p. 320

"When specialists are paid through a *fee-for-system scheme rather than on a capitation basis, surgery rates increase 78%.* The impact of primary care physician *compensation on surgery rates depends on whether or not referral restrictions are present*"

~ Shafrin J. Health Econ. 2010 May;19 (5): 562-80



SURGERY, THE ULTIMATE PLACEBO



The scales/i is probably the most powerful placebo known to modern medicine. Ian Harris provides the surgical antidote facts and rational argument." - Dr Norman Swan



Surgery as Therapy: A Common sense Approach?

If we treated surgery like a pharmaceutical drug, the procedure would be required to undergo scrutiny of testing its safety and feasibility in phase 1 and 2 trials. Subsequently, its efficacy would have to be proven in prospective randomized controlled trials prior to approvals.

Yet, the FDA or similar bodies do *not* regulate surgical procedures. Regulation is rather "self-certification" via professional Colleges.

If level 1 evidence disproves a benefit for a certain surgical procedure, any ineffective practice would be called into question and abandoned immediately. This is not the case in the field of surgery.

THE LANCET Diabetes & Endocrinology

Online First	Current issue	All issues	Special Issues	Multimedia *	About the Journal	Advisory Bo
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further reductions in sales of sugar-sweetened beverages in the second year after its implementation. The results provide potential hints of optimism about the effect of similar strategies in other countries—including the UK, where a levy on sugary drinks is set to take effect in April, 2018.



	LEVY LOOPHOL Grams of sugar per 100ml	
-	Costa chai latte	17.5
	Caffe Nero hot chocolate (no cream)	17.0
CR	Galaxy flavoured milk (pictured)	14.4
	Starbucks white chocolate mocha with whipped cream	13.3
Ri	Tesco chocolate fudge brownie flavoured milk	13.1
12	Frijj chocolate fudge brownie milkshake (pictured)	12.9
THICK&SMOOTH	Mars flavoured milk	12.8
FUDGE	Tesco chocolate flavoured milk	12.4
SROWHIE	Caffe Nero strawberry & vanilla frappe creme	12.3
	Galaxy thick shake	11.6



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Artificial sy	veeteners cou	ld increas	se risk
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SUGAR INTAKE EVENTUALLY BLUNTS DOPAMINE RELEASE, JUST LIKE COCAINE.



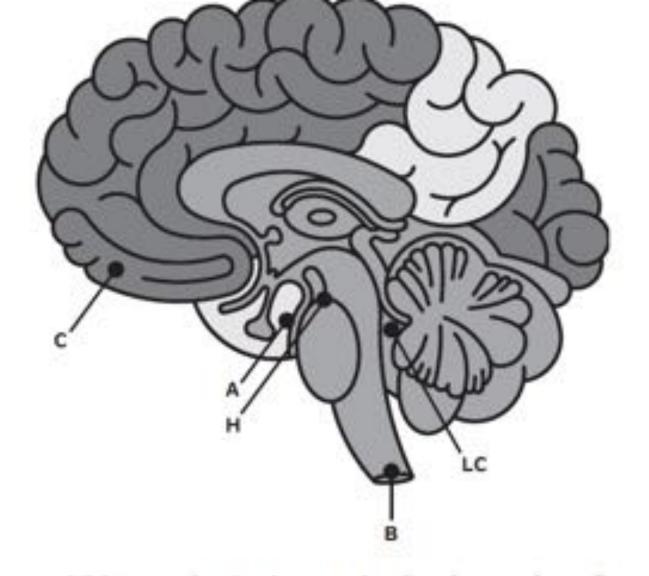
Millions of people turn to artificial sweeteners instead of sugar - ceion in-

By Laura Donnelly, marrie uprose

THE STRESS GENES: SABER-TOOTHED TIGERS AND SCAREDY-CATS

I am an old man now; I've had lots of trouble, and most of it never happened.

-Thomas Dixon Jr.



LC: Locus ceruleus (produces noradrenaline, the stress chemical) H: Hippocampus (the part of the brain associated with learning and emotion)

A: Amygdala, your early warning system (the part that senses the "rustle in the bushes")

ANATOMY OF EMPATHY

Using scanning technology, scientists can identify parts of the brain that are active when we empathize with others. By combining those results with other findings -- from psychological evaluations to genetic testing-researchers are beginning to determine which biological and environmental factors reinforce or corrode our capacity for empathy:

Recognizing pain The Empathy Circuit hispiliphene course have disting the result to Party The York compared to be off we'r. HE AMPROALA strenety Meaning process Falve more nand activity in their emilipsed amproximapoint of the brain associated with correctored responses and the

NORMAL BRAIN

Active station/all carbon

HOMICIDAL BRAIN

Case active prehonial context.



THE PREFRONTAL CORTEX

A brain scen of a murderer who pleaded insanity Dibove right) shows reduced activity in the prefrontal contex, a part of the brain that restrains impulsive behavior. Abnormalities in this area could predispose a person to violence.

Comparing time's Del tablective and others

Cincler standing topial cutte and physical point

 Registering tackal senotion Comprehending the intertions of others

1. INTRACTORE INTRODUCED INTER-INFERIOR PARTIAL LONG

Aurely presented to preserve

COURSE IN TRAFORMUL BALLES CONTEMPORTUNIARIAL JORCHON

(1) INFORMATING ANTIAL CAPITAL (i) months of MOREM

(7) ANTERIOR INSULA (4) MODUE CINELLATE CONTEX.

WIDAL PREFRONTAL CONTES GO ONBY OFRONTING CONTEX

The Empathy Spectrum

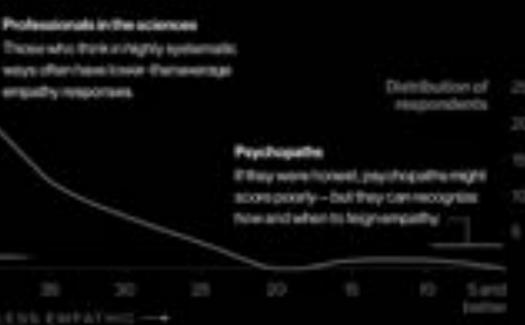
Empathy can be measured through empathy guotient (EQ) tests. Questions aim/lo determine the magnitude of one's interest in how others Neel and trick. Extreme altruists fail at one end of the spectrum. Those who totally lack empathy at the other.

Extreme attraints

Highly empathic people, such as these safect tak their lives for siturgens, are before stille to recognize pain or lear in others' facies. Professionals in the humanities Pacapie-auch as manicaine and Naturians balonty score higher on EQ teels.

45

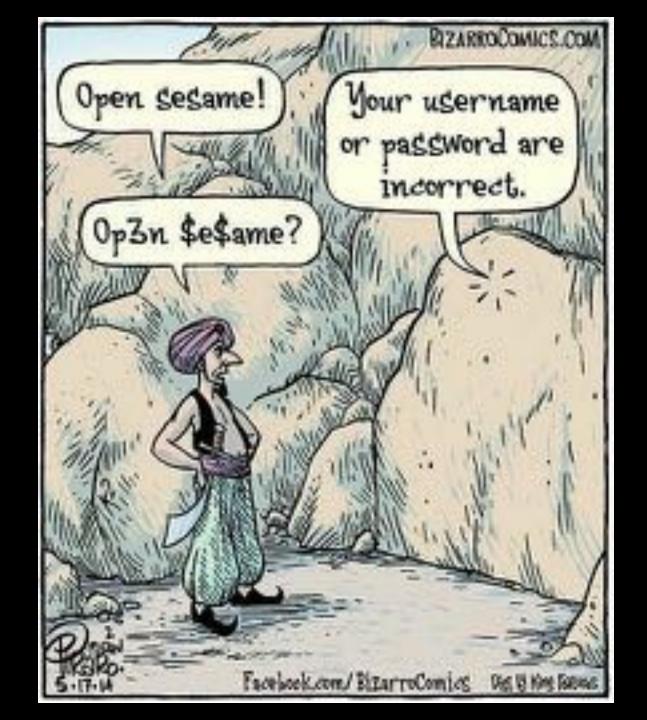
50 PO: - MORE ENPATING Employ quillient laborate





When doctors need treatment: an anthropological approach to why doctors make bad patients Alex Wessely, Clare Gerada , 12 Nov 2013

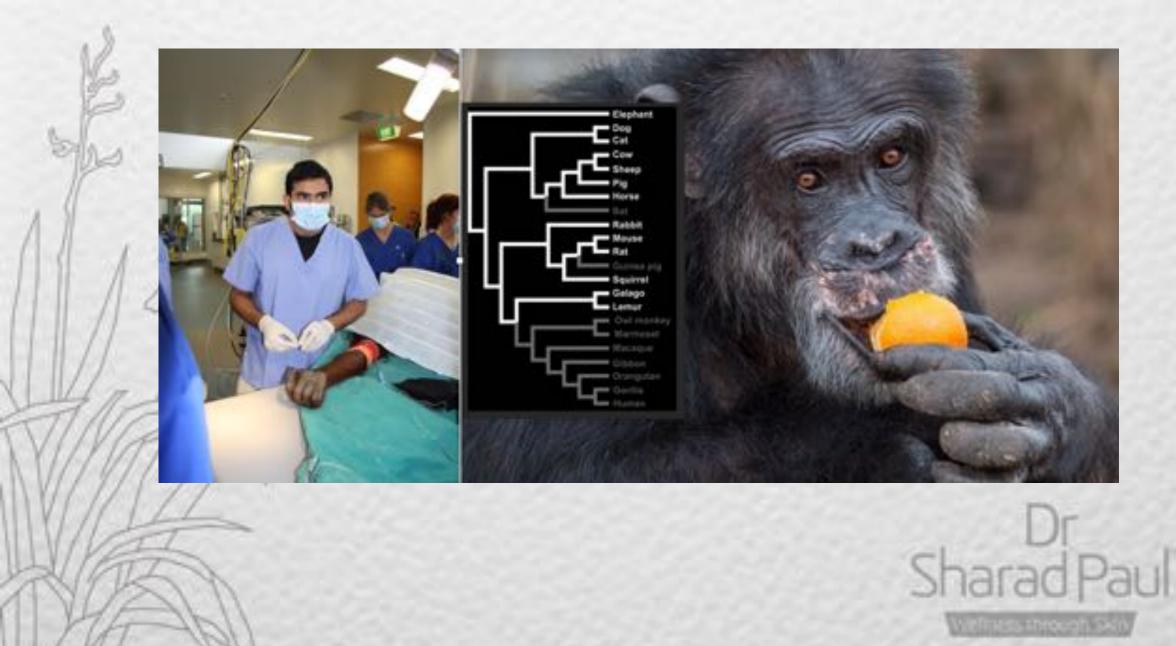
Perfectionists ("I must do this right, mistakes are intolerable") Narcissists ("I am the greatest") Compulsives ("I must do this, and I can't give up till I finish") Denigrators of vulnerability ("People who need help are failures. If I need help, I am a failure") Martyrs ("I care for my patients more than myself, and my needs are secondary to those I treat")



"Let food be thy medicine and medicine be thy food" ~ Hippocrates









La Libris & Bibliotheco TREATISE SCURVY. IN THREE PARTS. glegu CONTAINING Pregu An inquiry into the Nature, Caufes, and Cure, of that Difease. Udenburg. Medicon. Together with A Critical and Chronological View of what has been published on the fubject. By JAMES LIND, M. D. Fellow of the Royal College of Phylicians in Edisburgh. EDINBURGH: Printed by SANDS, MURRAY, and COCHRAM For A. KINCAID & A. DONALDSON.

MDGCLIIL

Sharad Paul

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Cahill et al Am J Epidemiol, 170: 464-471, 2009

Cahill et al. Arts J Clin Nutr; 2009

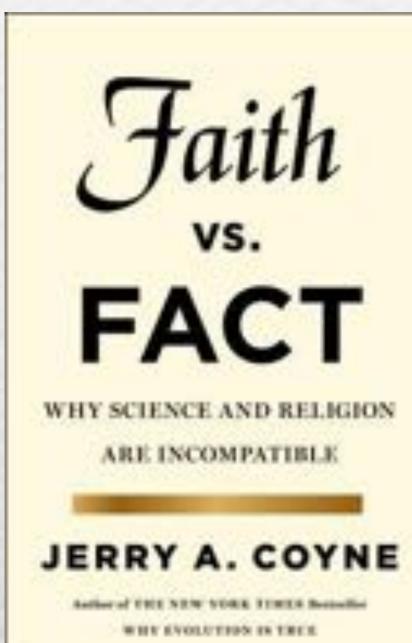


P=0.001 for diet-gene interaction P=0.02 for diet-gene interaction







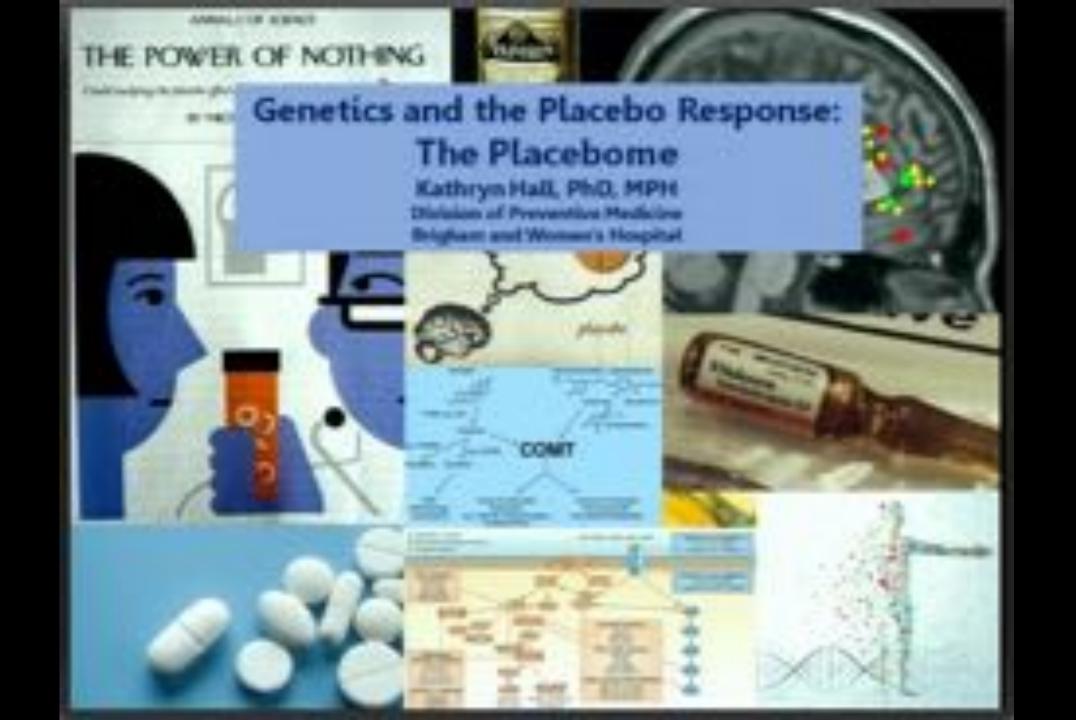


Wellness through Skin

Sharad Paul

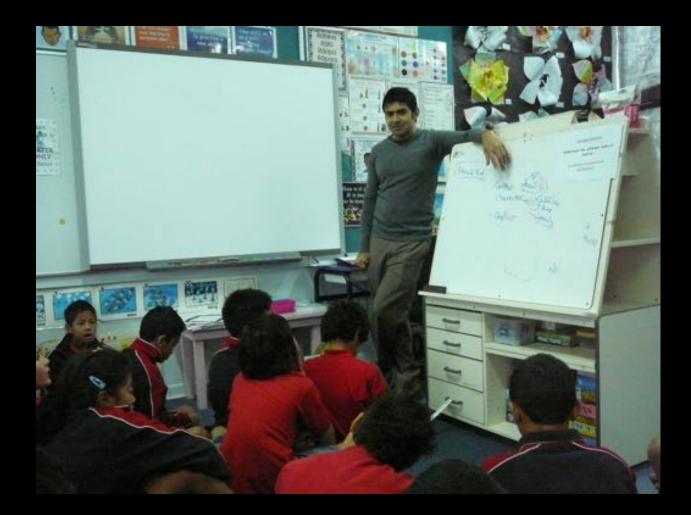
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"Where there is love of humanity, there is also love for the art of medicine" ~ Hippocrates











White Hat information available and needed, facts, data



Black Hat caution, difficulties, risks, weeknesses



managing the thinking. focus, summary

Sharad Paul Welliness strength Skin

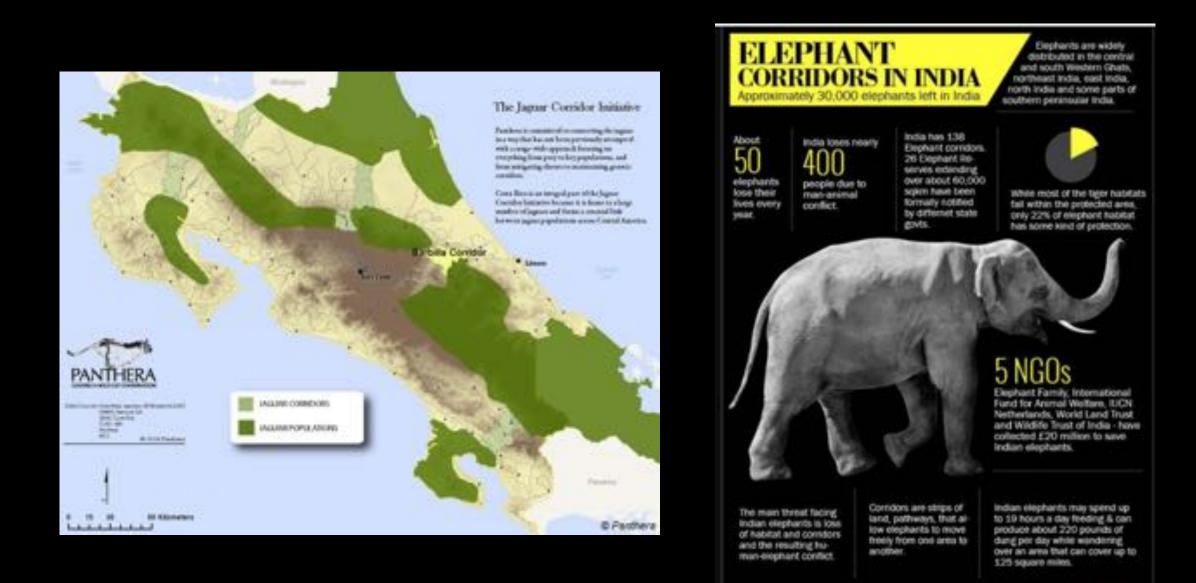






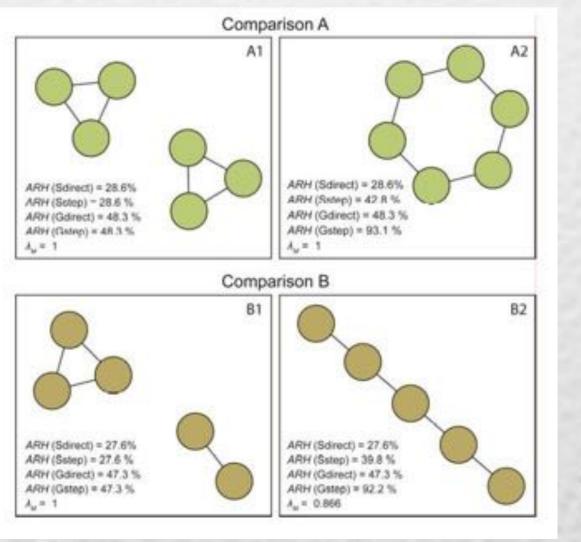








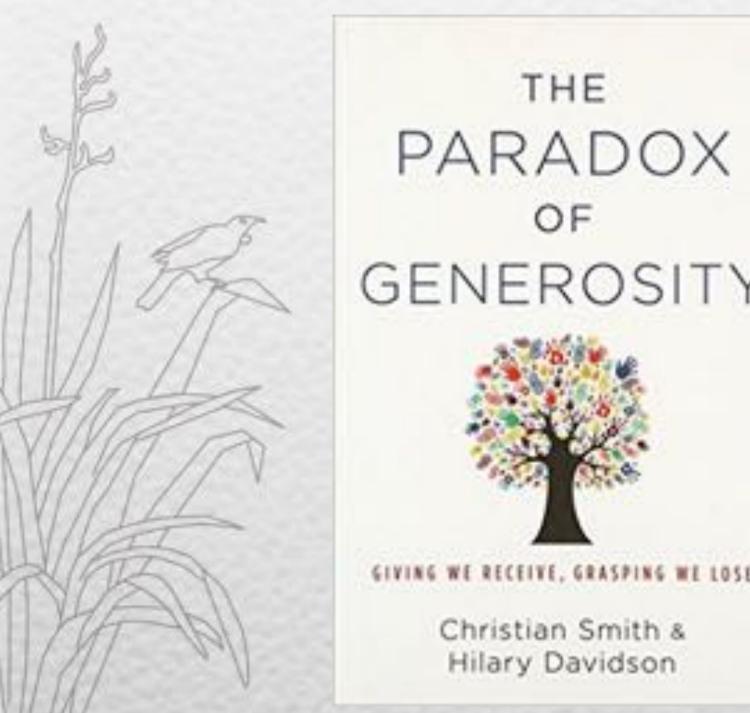
Conservation

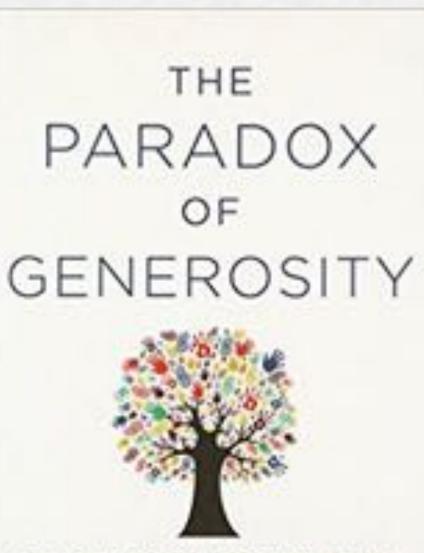


Sustainability









Christian Smith &

Hilary Davidson

Sharad Paul



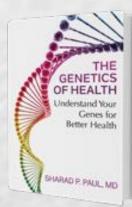




My Skin Surgery Clinic in Auckland, New Zealand



"Just as law doesn't translate into justice, medicine isn't health unless each of us takes personal responsibility"





Sympathy

Sustainability

Science

Press of the second second

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