



Dr Stephen Child

General Physician

Director of Clinical Training, Auckland District
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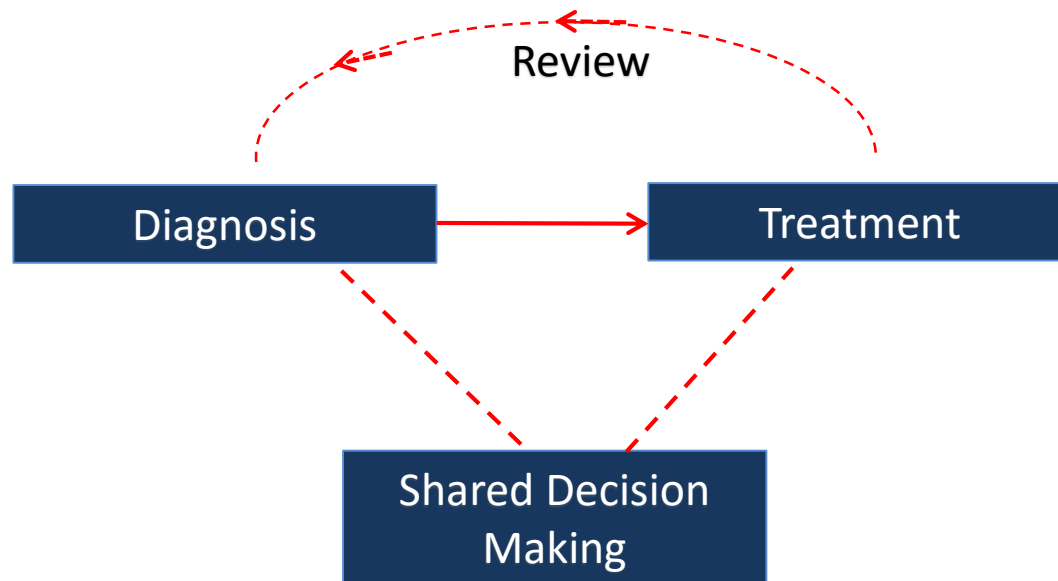
Friday, August 12, 2016

(Plenary)

12:10 - 12:40 Altruism: Dead or Alive

Altruism – Dead or Alive

Stephen Child
MD, FRACP, FRCPC
Chair, NZMA
General Physician
Respiratory Interest
Director of Clinical Training
Auckland District Health Board





Future



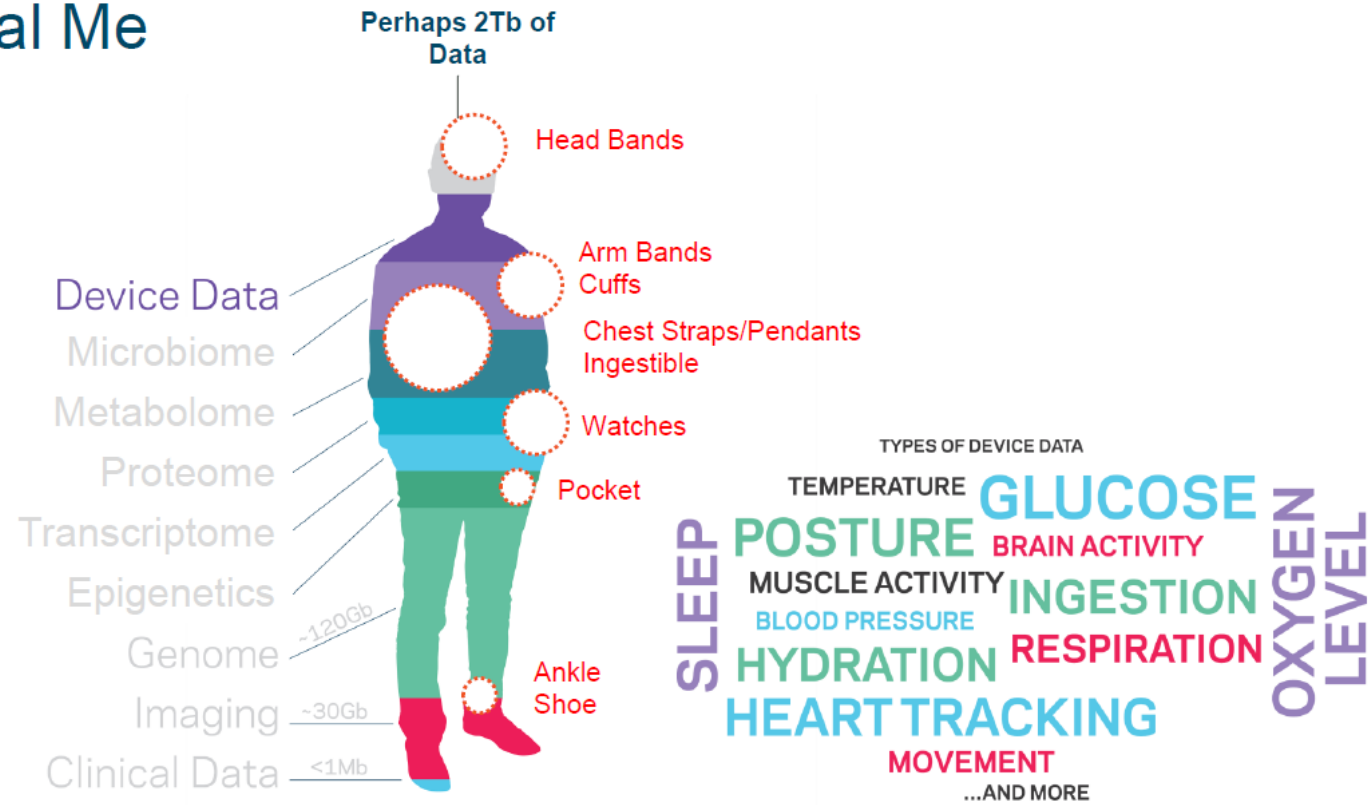


FIGURE 15.3: The tricorder device with detachable high-resolution scanner. Sources: (top) io9, accessed August 12, 2014, <http://io9.com/meet-the-teams-who-are-building-the-worlds-first-medic-1543000639>; and (bottom) Starbase 484, accessed August 12, 2014, <http://sb484.kersare.net/nova/index.php/wiki/view/page/24>.

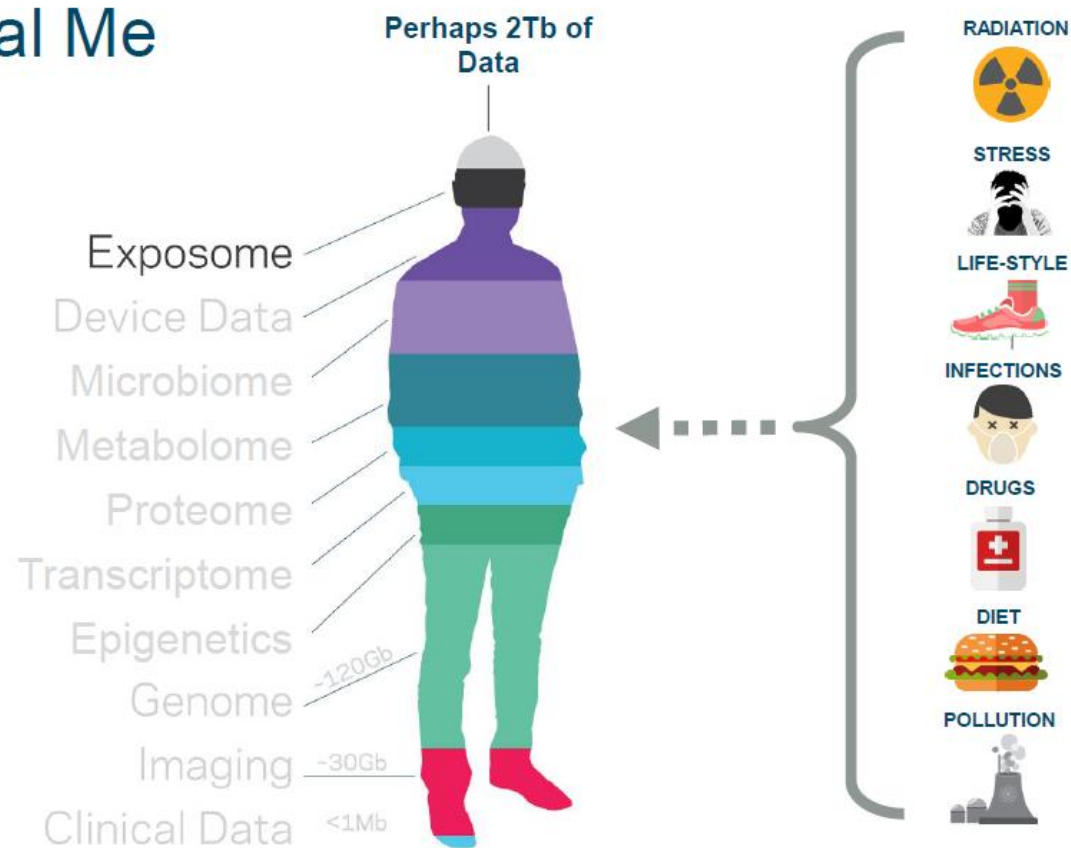
Patient Genetics

- 23 and Me
- Launched Nov 2007 — (FDA notification 2013)
- \$99
 - 250 medical conditions, carrier status, drug interactions (30)
 - Personal Genome Service (PGS)

Digital Me



Digital Me



Current LOC assays

- Blood — glucose, HB, K, chol, Cr, LFT, Thyroid, BNP, toxins, pathogens
- Urine— R+M, alb, HCG, UTI
- Saliva — Flu, strep throat, genes
- Breath — lactate, alcohol, CHF?, drugs, cancer?
- Contact lens — glucose
- Sweat — lactate

Digital Me

Social, Behavioral
and Environmental

Exposome

Device Data

Microbiome

Metabolome

Proteome

Transcriptome

Epigenetics

Genome

Imaging

Clinical Data

Perhaps ~~2Tb~~ of Data

6Tb of Data

¹IBM Watson – Fortune 2016

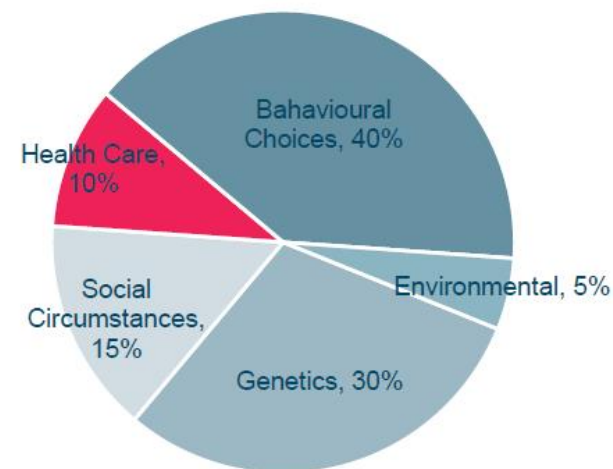


~120Gb

~30Gb

<1Mb

Factors Influencing Health



McGinnis et. al. Human Affairs, Vol 22 (2)

Patient Virtual

“Better”

- \$50/yr per household
- Unlimited Mayo Clinic nurse access

“Teladoc”

- \$38/visit 24/7

“Medicast”

- “Uber” like for Dr visits

“Pager”

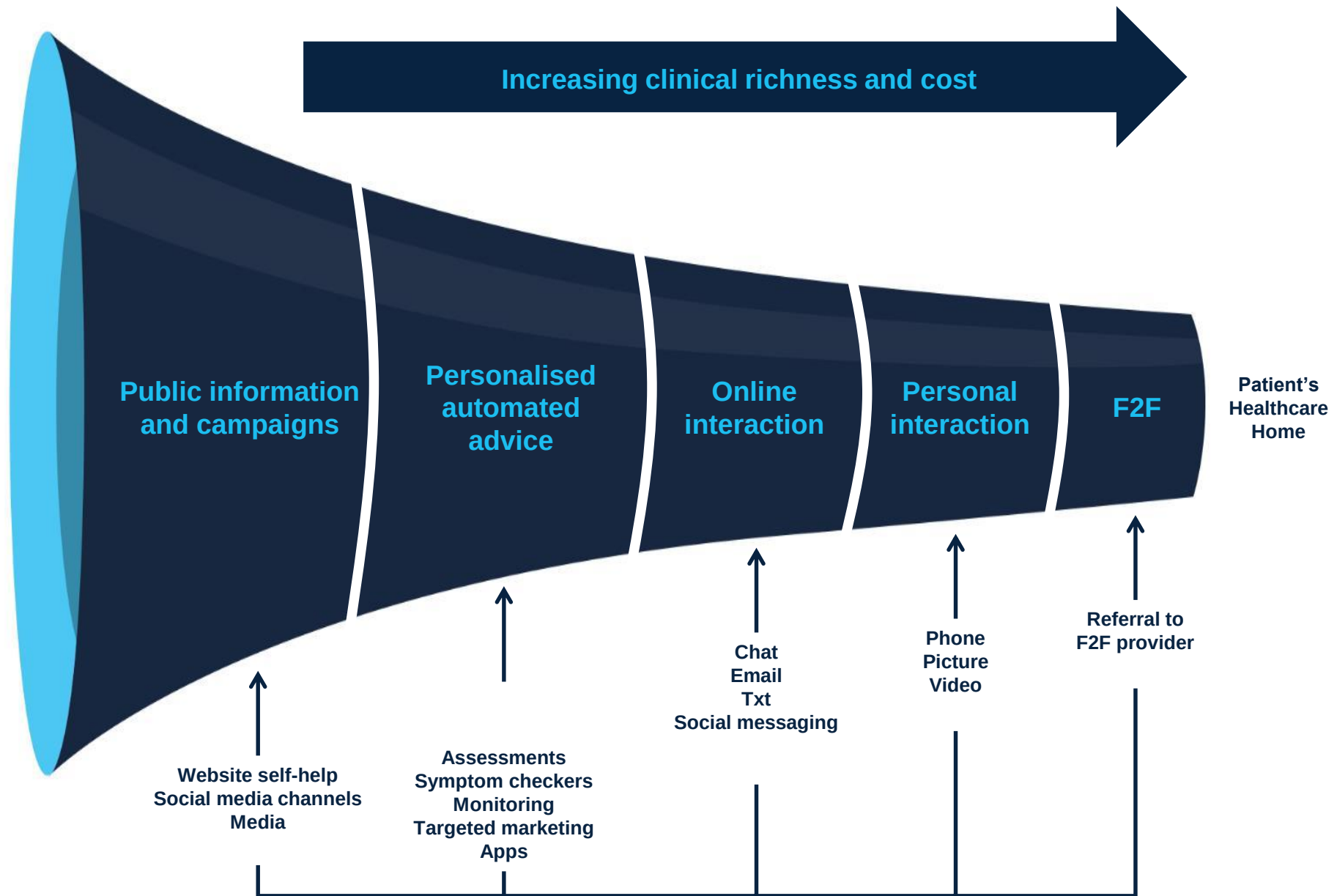
Patient Virtual

Healthspot

- Kiosk (phone + ATM — like booth)
- In dept stores
- Medical assistant escorts to booth for virtual medical link with sensors for metrics

Scanning/Exam

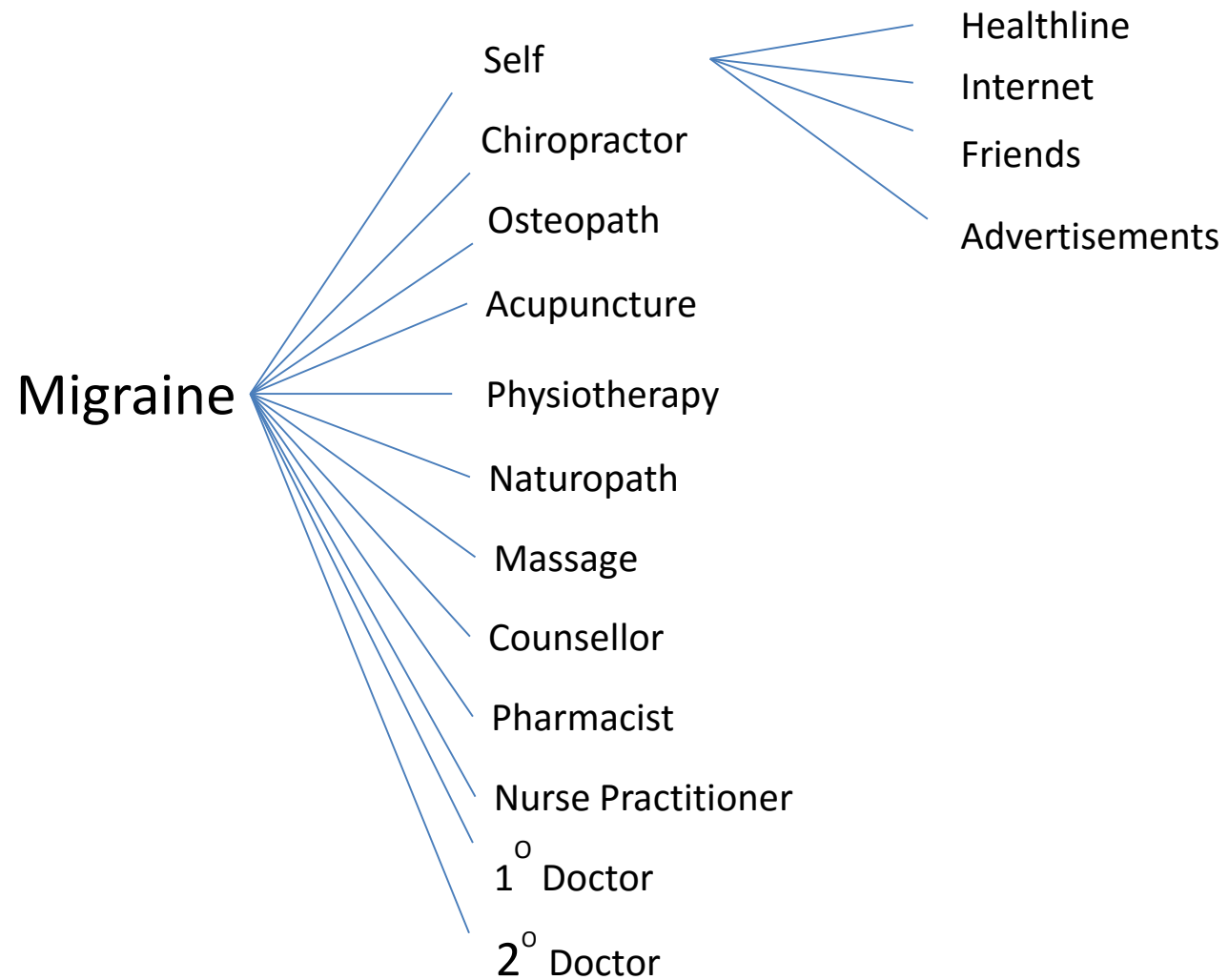
- Handheld Xrays, MRI, Ultrasound
 - V Scan, Mobisante
- MIM VueMe, Carestream, etc
- Dermascope, Ophthalmoscope, BP, O₂ , Temp, otoscope

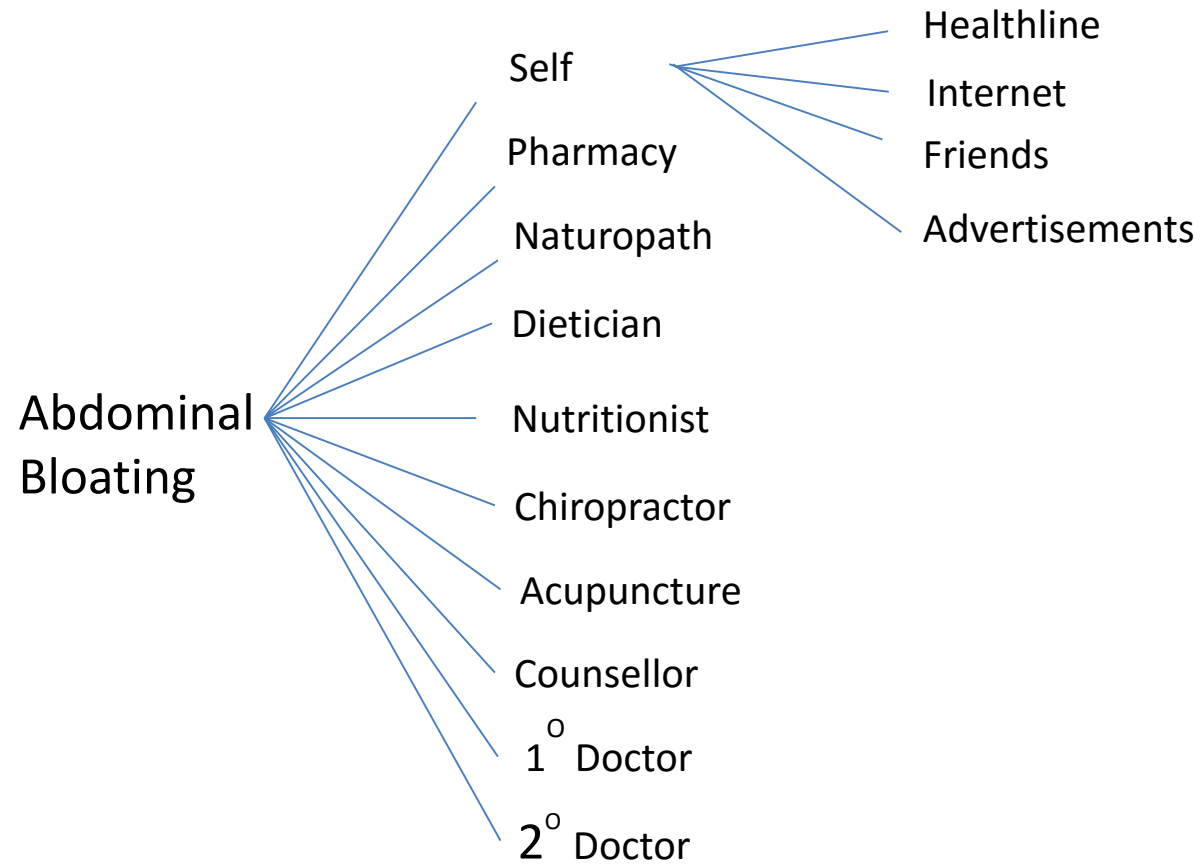


“Buy a phone”



- Research
- Compare
- Published price
- Consumer regulation
- Only “price” risk
- “Free market”





“Scenarios”

n = 191

Doctor	Other	Patient
65	116	10
(34%)	(60%)	(6%)
* Not vulnerable = 20 (12%)		

**Market Failure = Uninformed
Misinformed
Imbalance
High risk**

Chest pain = ? Market failure

Testicular lump

Skin Mole

Cough

Headache

“Purchase coffee maker off Trade Me”

Consumer = Risk

Paternalism vs Consumerism

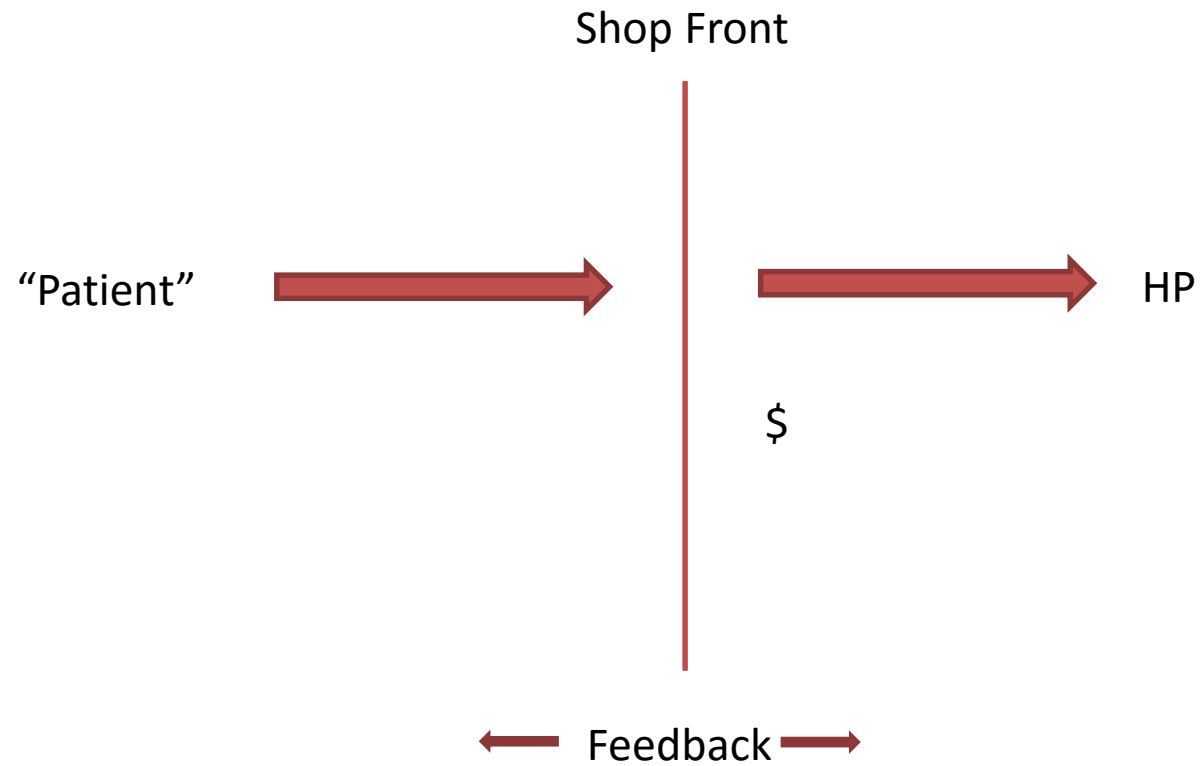
* Informed Consent
vs
Informed Choice

Shared risk?

Placebo?

Patient (consumer) has a problem (issue)

.... what value do we add?



? Our value = “Trust”

Trust = best interests

DECLARATION OF GENEVA

At the time of being admitted as a member of the medical profession:

I SOLEMNLY PLEDGE

to consecrate my life to the service
of humanity

I WILL GIVE

to my teachers the respect
and gratitude that is their due

I WILL PRACTISE

my profession with conscience
and dignity

THE HEALTH OF MY PATIENT

will be my first consideration

I WILL RESPECT

the secrets that are confided in me,
even after the patient has died

I WILL MAINTAIN

by all the means in my power,
the honour and the noble traditions
of the medical profession

MY COLLEAGUES

will be my sisters and brothers

I WILL NOT PERMIT

considerations of age, disease or
disability, creed, ethnic origin, gender,
nationality, political affiliation, race,
sexual orientation, social standing or
any other factor to intervene between
my duty and my patient

I WILL MAINTAIN

the utmost respect for human life

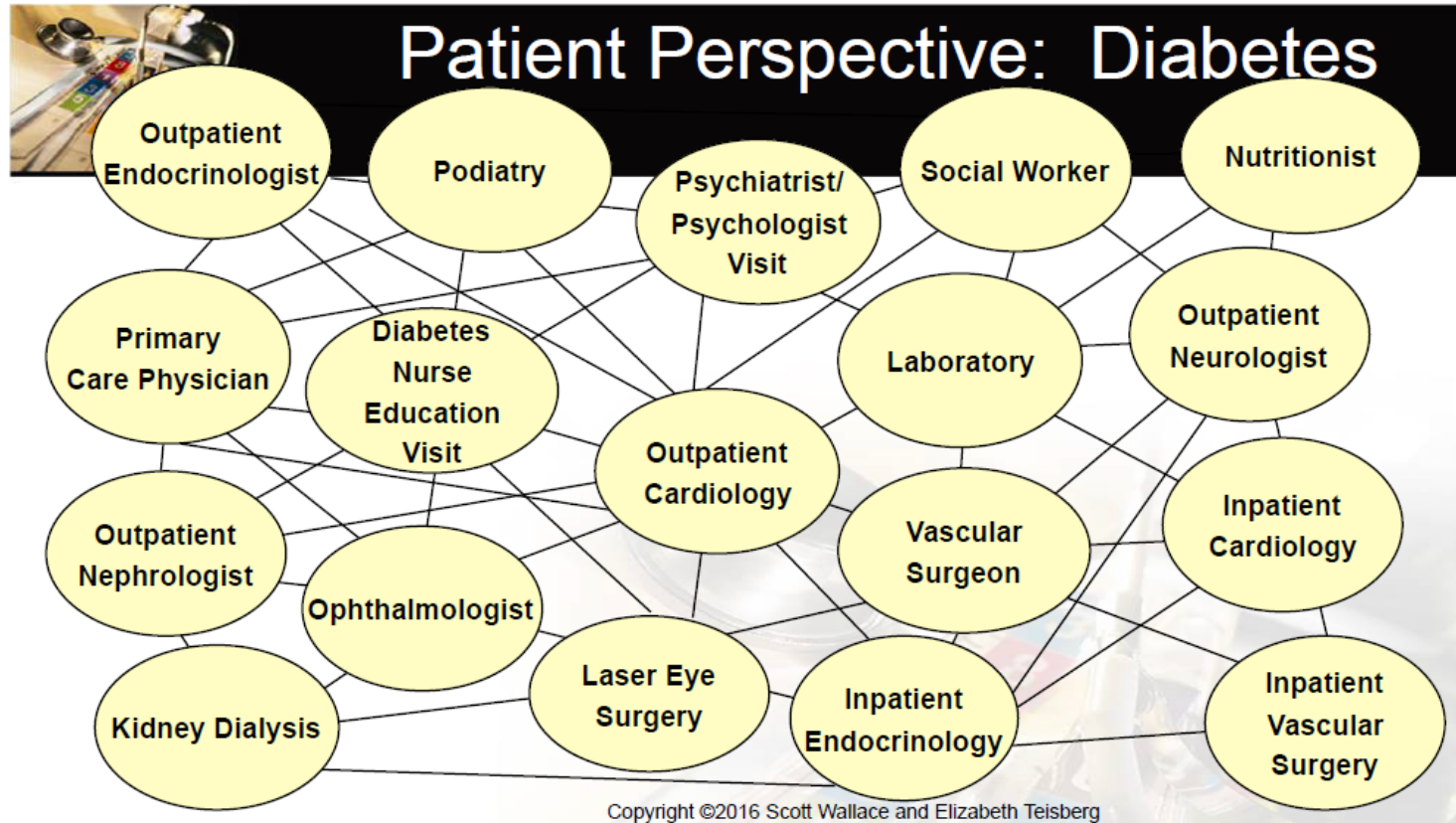
I WILL NOT USE

my medical knowledge to violate
human rights and civil liberties,
even under threat

I MAKE THESE PROMISES

solemnly, freely and upon my honour

Patient Perspective: Diabetes





Shifting To Health-Focused Care

Healthcare

Patients and families want more health,
not more treatment.

Treatment is an intermediate good.

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We have a choice

- A) Promote value of professionalism?
- B) Compete in system of consumerism?



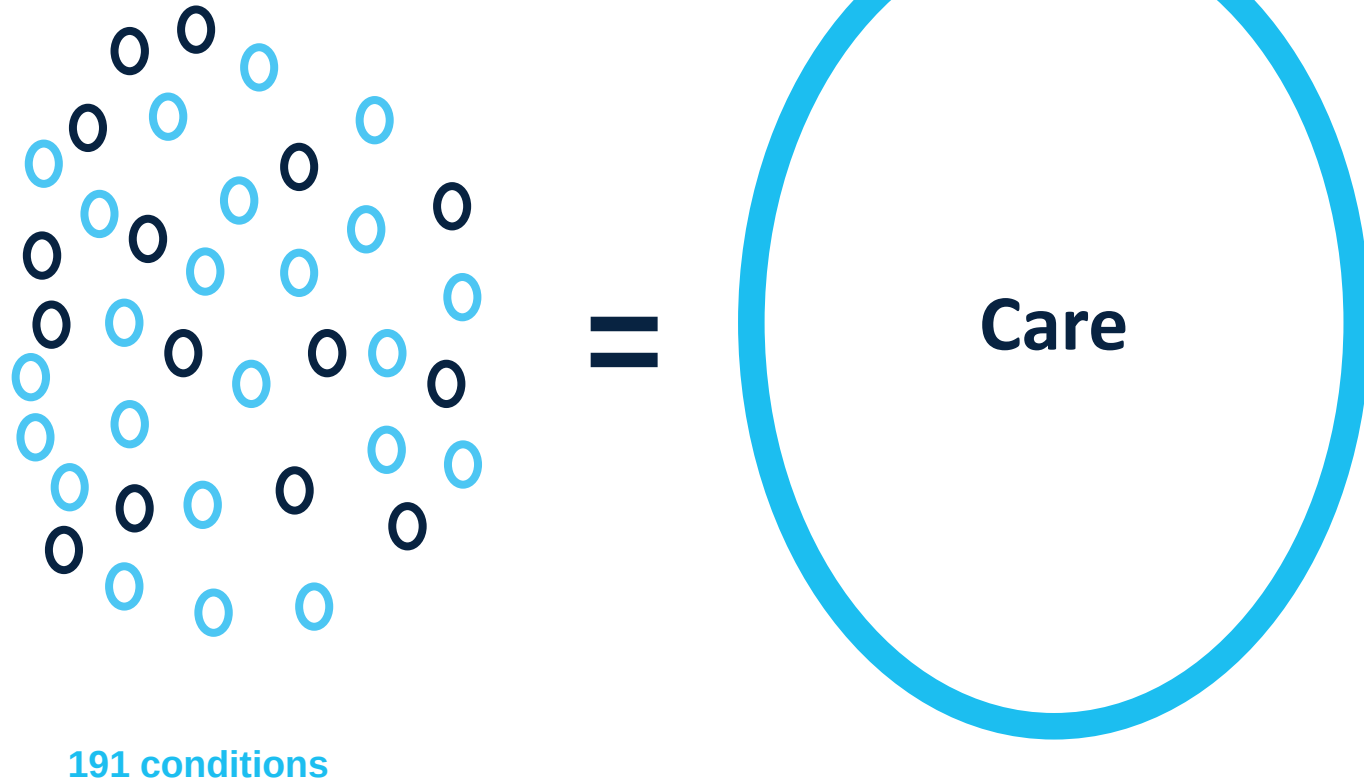
Measure for Professionalism, Not Consumerism

How were we?

How are you?

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Care option 1: as per diagram



“New” Skills

1. Listen
2. Understand
3. Compassion

Caring!!

Dr Stephen Child
Chair, NZMA