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Sunday, June 11, 2017
11:50 - 12:15 Evidence and Myth in Everyday General Practice
Evidence and Myth in Everyday General Practice

Nikki Turner and Tony Dowell
Today

• Evidence in general practice
  • The gains
  • When it conflicts
  • The limitations
  • When it runs out
  • When we don’t use it
  • Doing harm

• Evidence and mythology

• The art of General Practice

• The WORDS

• And who are we?
Our World
Evidence updates our practice

• Lateral epicondylitis: corticosteroid injections

No long term benefits

“a well-documented short-term benefit, they appear to have a detrimental effect with longer follow up, such as an increase in recurrent rate”


But

...the evidence base is often slim
Mrs G, aged 91 yrs

Systolic BP measures: Feb 2016 – Feb 2017

+ postural drop up to 40 mm Hg
• Do frail very old hypertensives get benefits from antihypertensive treatment?

• Is the benefit similar or different in non-frail and frail individuals?

• Should the BP threshold at which to start treatment be higher as recently recommended by guidelines?

• Which are the BP targets that maximize protection in frail very old patients, without posing a risk to their safety?

• What is the definition of ‘frail’?
Mrs G
- it is not just her hypertension

most important active issues
- Hypertension with postural hypotension
- CVA (haemorrhagic) Jan 2017
- Hypothyroid
- Cognitive impairment (MOCA 14/30, CT severe frontal atrophy)
- Tachy-bradycardia syndrome – symptomatic palpitations
- Intermittent AF
- Depression /anxiety
- PMR
- Osteoporosis
- Frozen shoulder
- Back and neck severe chronic pain, probably mostly OA
- Dysphagia – cause unknown
- COPD – mild
- Nausea – cause unknown
- Recurrent falls
- Lives alone

Has had 8 admissions in the past 6 months
Competing evidence-base

- Treating her BP more
- Anticoagulate her for the AF
- Better pain relief for the chronic pain
- Trialling a low dose antidepressant for her anxious depression
- Increasing B Blocker to control the symptomatic palpitations

- Reducing pain medication to mitigate cognitive impairment
- Reducing the BP and pain medications affecting the postural hypotension
- Weaning off as many meds as possible
Putting the pieces together
Living with multimorbidities

The main healthcare priority of the patient was not represented in the top three priorities of their physician.


Patient perspectives

• Support from family and friends
• Healthcare system
  • Making and attending/travelling to appointments
  • Time in consults
• Cultural needs e.g. spiritual
• Silos in health services dealing with single issues
  • Wanting a professional single point of contact
• Managing multiple medications
• Fear of side effects

Signal L et al A walking stick in one hand and a chainsaw in the other: patients’ perspectives of living with multimorbidity NZMJ 12 May 2017
• my wife had a couple of complaints and she said ‘oh, we’re going to the doctor today. We’ll talk to him about it.’ And she started to talk to him: she said there’s this and that. And he said, ‘I’m sorry you’ve only got fifteen minutes.’

• Oh when I go to the GP, he goes ‘oh you’re seeing the asthma clinic next week. Tell them what’s going on’. Or I see the asthma clinic, [they say] ‘when are you seeing rheumatoid next?’

• You’ve got the diabetes who are worried about the sugar, but they’re not too concerned about the fat intake. And then you have the [other]dietitian who comes in totally different
Filling some of the gaps in our evidence-base
Childhood morbidity

- High workload (0-5 years 6 + visits / yr)
- Unclear how much actual illness or morbidity
- Much illness acute and self limiting
- Not coded
- General Practice and Primary care contribution unrecognised
- Kids Ambulatory Sensitive Hospitalisations = a lot of hospital admissions
Ambulatory Sensitive Hospitalisations in Children aged 0–4 Years by Primary Hospital Diagnosis

- Gastroenteritis - 23.0%
- Upper Respiratory Tract Infections - 16.8%
- Asthma - 16.7%
- Dental Conditions - 14.3%
- Bacterial/Non-Viral Pneumonia - 11.8%
- Skin Infections - 8.35%
- Otitis Media - 3.02%
When and how do we to use or not use the “evidence”

Do we know the evidence?

When it is too hard?
**NZ GP experiences with NSAID use**

McDonald et al GP’s views and experiences of prescribing non-steroidal anti-inflammatory drugs: A qualitative study BJGP Open 31 May 2017

Many GPs are uncertain about specific risk of their magnitude and how to apply their knowledge to the complexity of a particular patient interaction

- NSAID prescribing is a complex balance between pragmatism and potential adverse events
- Given the costs of morbidity, hospitalisation, and patient demand there is an urgent need to secure a more detailed evidence base and develop practical pathways to support safer prescribing
• Some issues are hard
  • Evidence base continues to grow
  • Have we kept pace with the evidence base?

How do we keep pace with the evidence-base
  - small tools and learning

*General practice moves incrementally, adopting partial evidence-base*
‘Evidence’ not matching the patient’s world

**GP consultation. – Encouraging exercise ???**

**PT:** um me I’ve got an older sister to look after that’s had a **stroke**

**GP:** so you take her for a walk twice a week?

**PT:** so ((inhales)) you know

**PT:** I work with preschoolers I’m walking around all **day**

**GP:** it’s not good enough

**PT:** it’s not good enough? **oh cripes**

**GP:** you need to be working up a sweat

**PT:** **oh oh**

**GP:** every **day**

**PT:** **oh crikeys**
The bridge from evidence to mythology
Myths and legends for a new age

**CASHEWS** are a
Natural Anti-Depressant

2 handfuls of cashews is the therapeutic equivalent of a prescription dose of **PROZAC**

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**YOU ARE THE CAUSE OF HAPPINESS**

The only person who can make you happy or unhappy in this world is *you*. You alone have the ability to create happiness for yourself.

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**NATURAL TREATMENT FOR ARTHRITIS**

Planet Ayurveda recommends the following combo pack for the treatment of initial stage of arthritis naturally....

**ANTI-ARTHRITE PACK - 1**

- Treats Arthritis
- Relives Pain & Inflammation
- 100% Natural
- Safe & Effective
- No Side Effects

[www.planetayurveda.com](http://www.planetayurveda.com)
And we can do harm...
Myths and Legends
- An attack of the Vapours
Historical face validity
And:

- *Steam inhalations have been seen to be tremendously helpful to many people with a wide variety of problems that are affecting their breathing in one way or another.* NZ Herbalist

- NHS direct website recommended that doctors “advise parents to sit in the bathroom with a hot shower running.”

But


• Although advice to use steam is commonly given in primary, the evidence of effectiveness is limited

• The risks of harm are well documented

Steam inhalations are not recommended in the routine treatment of common cold symptoms until more double-blind RCT trials are conducted.

Singh M. Heated, humidified air for the common cold. Cochrane Library 2004;2:CD001728.

Darwin award
The narrative – evidence or myth? Ethical dilemmas in GP households
And the “evidence-based” response

SURVEY:

“Do you think this is an appropriate use of this instrument?”

Poll N = 18

• Paediatrician 1 = No (but biased as Australian)
• Non-medical 15 = NO
• Non-medical 1 = YES (Engineer)
• Most experienced GP = YES (but biased as male)
  ➢ however changed his mind when he realized pragmatically they were useless!
Back in the real world
Mrs G: What is bothering her the most?

- Hypertension with postural hypotension
- Hypothyroid
- Cognitive impairment (MOCA 14/30, CT 2016 – severe frontal atrophy)
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- Nausea – cause unknown
- Ectropion
- Recurrent falls
- Lives alone
The Art of General Practice

Blending the art of the narrative with the science of evidence
What is bothering her the most?

- Hypertension with postural hypotension
- Hypothyroid
- Cognitive impairment (MOCA 14/30, CT 2016 – severe frontal atrophy)
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- Tachy-bradycardia syndrome – **symptomatic palpitations**
- Intermittent AF
- Depression /anxiety
- PMR
- Osteoporosis
- Frozen shoulder
- **Back and neck severe chronic pain**, probably mostly OA, ? some PMR
- Dysphagia – cause unknown
- COPD – mild
- Nausea – cause unknown
- Ectropion – **sore eyes**
- Recurrent falls
- Lives alone - **loneliness**
Putting it all together

• Synthesise
• Incorporate
• Combine
• Make whole
• Amalgamate
• Arrange
• Blend
• Harmonise
• Orchestrate
• Unify
• Symphonise
What tools do we have?
The new face of general practice?

In a world where ........

• Algorithm driven virtual medicine
• Acute triage
• Health Care Home
• Outsourced LTCM, Psychological Medicine, O and G
• Virtual tech
The power of words

- Therapeutic alliance – up to 50% of therapeutic effect
- Strong contribution to the placebo response
Power of words (1) – Low Back Pain

Uncertainty and Fear → seek more information and understanding.
  • Internet and looked to family and friends
  • But
  • health care professionals had the strongest influence upon attitudes and beliefs.

I injured my back, and I think they described it as...a slipped disc.... Something she’d also said to me, “Unfortunately, because you’ve done this, you have a very high chance of doing it again.” Now, I connect any pain that I feel round there to that

I was worried that...I would do things [at work] that would further damage my back.... [The doctor] basically said that I shouldn’t do any bending or lifting. Which is a lot of the job
GP advice to patients with low back pain

- Patients’ understanding of the source and meaning of symptoms
- Prognostic expectations.
- **Continue to influence the beliefs of patients for many years.**
- Many messages interpreted as meaning the back needed to be protected.
- Result in increased vigilance, worry, guilt.
- Clinicians could also provide reassurance.

The power of words (2)

- Fit and well
- Chest pain
- AMC
- GP “I think you’ve had an inferior infarct”
- Mr Dowell – “I don’t think so. I think we’ll wait for the troponin”
The words and conversations

Hospital Reg
• I’m not really sure what to do about this – I’m usually rheumatology

Nurse (after monitor had ‘flatlined’)
• No – you haven’t had a cardiac arrest – the battery is flat on this monitor

Taxi driver 0300
• “You’ve had a bit of a rough night then”

GP
• “Well – let’s just check the ECG again now – seems fine,”
• “But how are you feeling - I don’t think you should be back at work for a bit”

Do you smoke x 3
General Practice: Humanity in the midst of activity

• The lived stories
• Evidence-base......+/-
• Blended/mixed/
  ▪ The pieces alongside the whole
  ▪ Blend it into the narrative
• Translating the unknown
• Managing mythology...
• using WORDS....

• Evidence?
  ▪ matching to the real world
  ▪ cant keep up
• Time pressure
• Change
  ▪ Technology
  ▪ Modes of communication
  ▪ External expectations
• Professional silos
  ▪ who is in charge
• Gateway / gatekeeper swamping
  ▪ ?GP role
  ▪ legal liability
  ▪ ‘holistic care’ - who can really know the whole patient?
Words

“I have to cry out here that language is all we have for the delicacy and truth of telling, that words are the sole heroes and heroines ...... Their generosity and forgiveness make one weep.”

Janet Frame – Living in the Maniototo