

Persistent musculoskeletal pain in the rural health setting



*Pain*Options

Tim Mitchell
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PhD

Challenges for musculoskeletal healthcare

BoD across the lifespan
for MSK conditions is
BIG and INCREASING

Prevalence & impact
will outstrip capacity in
all economies

Care disparities
common:

Age

Geography

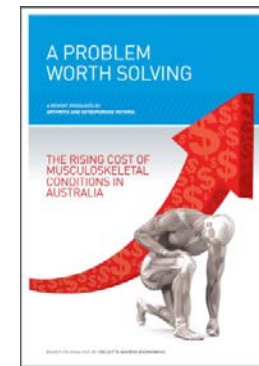
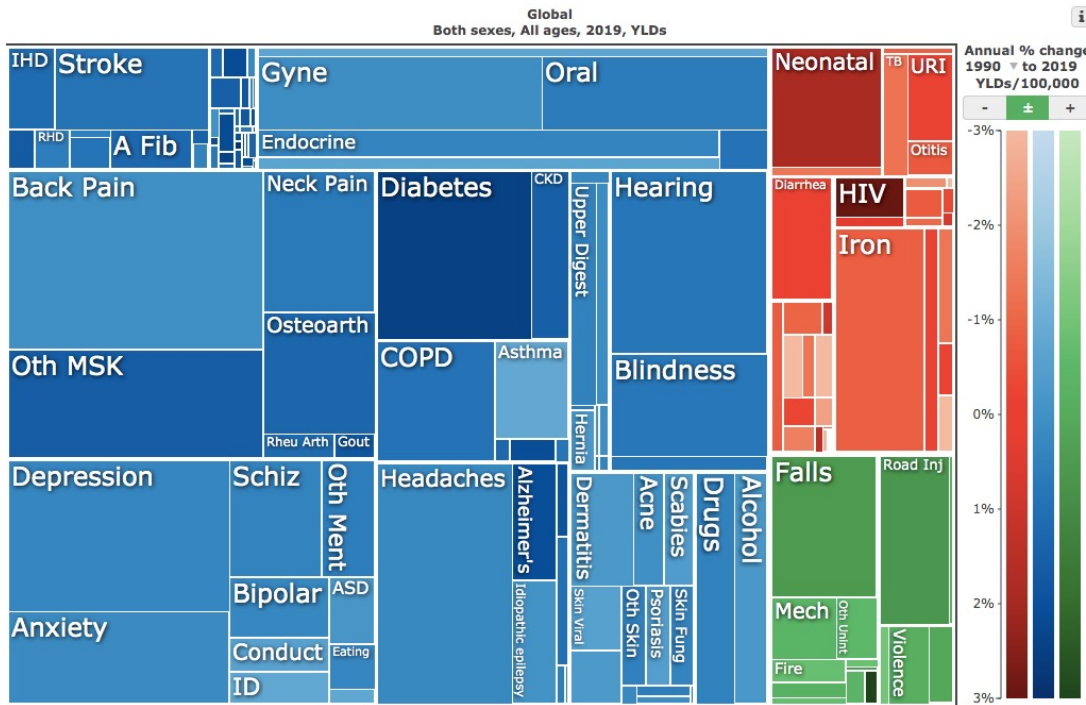
Race

SES

Co-morbidity

Service delivery and
consumers' participation
in care inadequately
aligned with best-practice

Health ecosystem challenges



\$55.1B

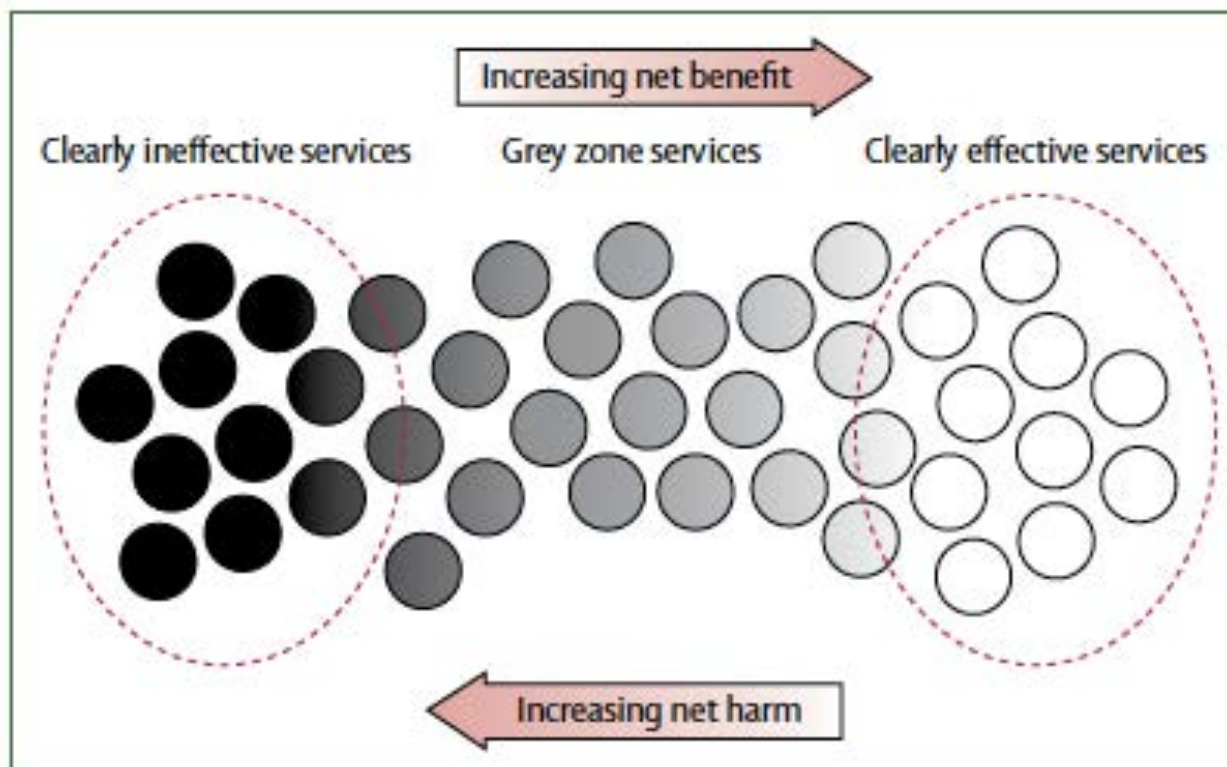


\$139B



Strat plans

<http://www.healthdata.org/global>



 **Right care 1**

Evidence for overuse of medical services around the world

Shannon Brownlee, Kalipso Chalkidou, Jenny Doust, Adam G Elshaug, Paul Glasziou, Iona Heath, Somil Nagpal, Vikas Saini, Divya Srivastava, Kelsey Chalmers, Deborah Korenstein*

Lancet 2017; 390: 156–68

Right care 2



Evidence for underuse of effective medical services around the world

Paul Glasziou, Sharon Straus, Shannon Brownlee, Lyndal Trevena, Leonila Dans, Gordon Guyatt, Adam G Elshaug, Robert Janett, Vikas Saini

Lancet 2017; 390: 169–77

Addressing low-value healthcare

The case for addressing low-value healthcare in Australia is compelling. Nearly one-third of total health expenditure in Australia could be deemed wasteful¹ and potentially expose consumers to unnecessary risk and harm.

RACP EVOLVE

16 lists of recommendations promoted by Choosing Wisely have also been published as part of The Royal Australasian College of Physicians' EVOLVE program. EVOLVE encourages each medical specialty to think about the clinical circumstances in which some of their practices - whether medical tests, procedures or interventions - should have their indications or value questioned and discussed by physicians. These practices may be overused, inappropriate or of limited effectiveness in a given clinical context.

evolve

evaluating evidence. enhancing efficiencies.

**Choosing Wisely
Australia**
An initiative of NPS MedicineWise

**NPS
MEDICINEWISE**

5 QUESTIONS

TO ASK YOUR DOCTOR OR OTHER HEALTH CARE PROVIDER BEFORE YOU GET ANY TEST, TREATMENT OR PROCEDURE




Some tests, treatments, and procedures provide little benefit. And in some cases, they may even cause harm. Use the 5 questions to make sure you end up with the right amount of care — not too much and not too little.

- 1 DO I REALLY NEED THIS TEST OR PROCEDURE?** Tests may help you and your doctor or other health care provider determine the problem. Procedures may help to treat it.
- 2 WHAT ARE THE RISKS?** Will there be side effects? What are the chances of getting results that aren't accurate? Could that lead to more testing or another procedure?
- 3 ARE THERE SIMPLER, SAFER OPTIONS?** Sometimes all you need to do is make lifestyle changes, such as eating healthier foods or exercising more.
- 4 WHAT HAPPENS IF I DON'T DO ANYTHING?** Ask if your condition might get worse — or better — if you don't have the test or procedure right away.
- 5 WHAT ARE THE COSTS?** Costs can be financial, emotional or a cost of your time. Where there is a cost to the community, is the cost reasonable or is there a cheaper alternative?

For further information visit choosingwisely.org.au
Join the conversation @ChooseWiselyAU

Adapted from material developed by Consumer Reports. Choosing Wisely Australia[®] is an initiative enabling clinicians, consumers and healthcare stakeholders to start important conversations about unnecessary tests, treatments and procedures. With a focus on high-quality care, Choosing Wisely Australia is being led by Australia's medical colleges and societies and facilitated by NPS MedicineWise. This information is not intended as a substitute for medical advice and should not be exclusively relied on to manage or diagnose a medical condition. Choosing Wisely Australia[®] disclaims any liability for any loss, damage or injury resulting from reliance on or use of the information. See the full disclaimer at www.choosingwisely.org.au

Can you change 1 aspect of your clinical practice?

Christopher G. Maher^{1,2} 
Mary O'Keefe^{1,2} 
Rachelle Buchbinder^{3,4} 
I. A. Harris^{1,2,5}




Musculoskeletal healthcare: Have we over-egged the pudding?

Getting the balance right

TABLE 1 Potential drivers of overuse of musculoskeletal health services

Driver	Examples	Impact
Overtesting Ordering unnecessary tests	<ul style="list-style-type: none">Acting upon a single red flag to trigger diagnostic work-up and/or specialist referralFrequent vitamin D testing	<ul style="list-style-type: none">Up to 80% of patients with low back pain have at least one positive red flagMedical Benefits Scheme costs for vitamin D testing rose from \$109.0 million in the 2009-2010 financial year to \$151.1 million in 2012-2013⁵
Overdetection Clinicians act upon clinically unimportant findings	<ul style="list-style-type: none">Incidental findings on imaging trigger unnecessary treatmentJudging minor postural variations as abnormal triggers interventions to correct the abnormalities	<ul style="list-style-type: none">Arthroscopic procedures for degenerative knee disease cost more than \$3 billion per year in the USA.Medicalizing infancy by diagnosing notional spinal lesions that require manipulative care³¹

30% medical care unhelpful, another 10% harmful

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Musculoskeletal healthcare: Have we over-egged the pudding?

Overdefinition

Changed disease boundaries encourage more health care

- Promoting Pain as the Fifth Vital Sign encouraged treatment of any level of pain
- Disease subcategories that are no more than nominal diagnoses (eg instability) encourage use of ineffective therapies
- Creating the label "neuropathic" low back pain encouraged the use of pregabalin for low back pain
- Contributed to the opioid crisis that has reduced life expectancy in the USA
- Spinal fusion is the most expensive surgical procedure in the USA (US\$12.8 billion annually)
- There has been a surge in the use of pregabalin for pain and in parallel an increase in pregabalin poisonings, abuse and deaths

Overtreatment

Culture, industry and health systems encourage treatment that does not provide a net benefit

- There is a predisposition with regard to health care to believe that more is better and that new is better
- Professional associations encourage care for musculoskeletal conditions with a good natural history
- Health systems reimburse and/or commission more complicated care than is necessary
- Proliferation of stem cell clinics offering treatments for musculoskeletal conditions resulting in high costs, direct and indirect harms
- Increased treatment rates based on belief of trusted sources (professional societies and individual professionals)
- Higher rates of procedures performed in regions where reimbursement is higher resulting in unwarranted practice variation

Can you change 1 aspect of your clinical practice?

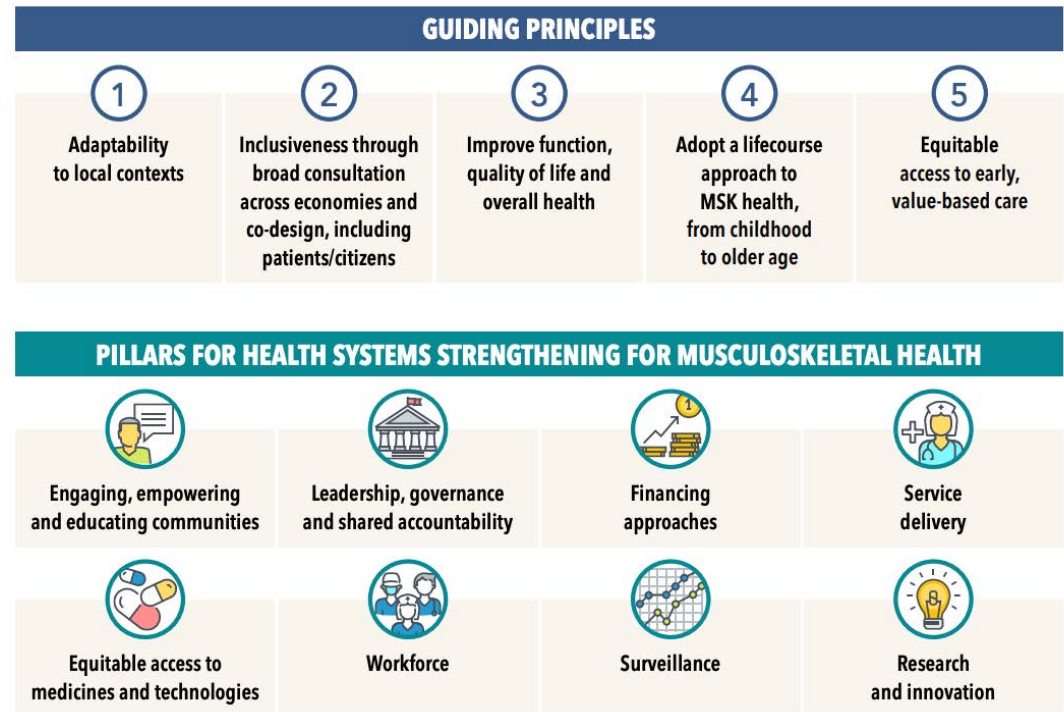
A system strengthening approach to improve musculoskeletal health



Towards a global strategy to improve musculoskeletal health



Briggs AM, Slater H, Jordan JE, Huckel Schneider C, Kopansky-Giles D, Sharma S, Young JJ, Parambath S, Mishra S, March L. (2021)



<https://gmusc.com/global-strategy-to-improve-musculoskeletal-health/>

available in 7 languages, including low- and middle-income countries

So, how do we achieve quality care?

‘Right care’: right time, right team, right place

- Person-centred, value-based health care
- Systems approach essential [screening/outcomes]
- Multidimensional therefore MUST include screening of all relevant dimensions
- Evidence-informed best practice pain management principles [low disability simple solution; high disability more complex]

Brain changes in chronic pain.

clinical phenotyping: individually targeted care

European journal of pain (London, England)
Author Manuscript
HMS Public Access

Transforming Pain Medicine:
Adapting to Science and Society

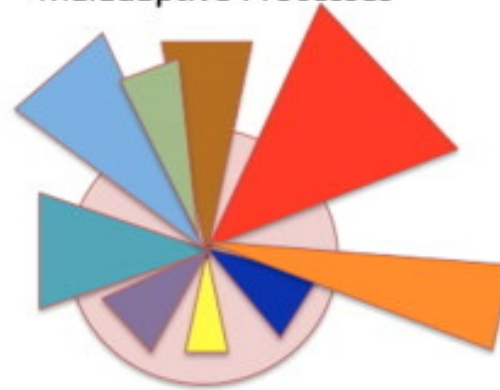
David Borsook, MD PhD and Eija Kalso, MD
DMedSci

Transforming Pain Medicine: Adapting to Science and Society
[Eur J Pain. 2013 Sep; 17\(9\): 1109-1125. Author manuscript.](#)

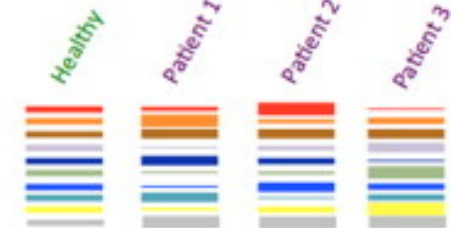
Healthy Adaptive Processes



Chronic Pain Maladaptive Processes



Chronic Pain Individual Responses



- | | |
|--|---|
| ■ Pain intensity | ■ Sleep Disturbance |
| ■ Pain Unpleasantness | ■ Depression |
| ■ Autonomic Disturbance | ■ Anxiety |
| ■ Sex Drive | ■ Motor Activity |
| ■ Appetite | ■ Cognitive Dysfunction |

So, how do we achieve this with the individual in front of us?

Pain can be complex

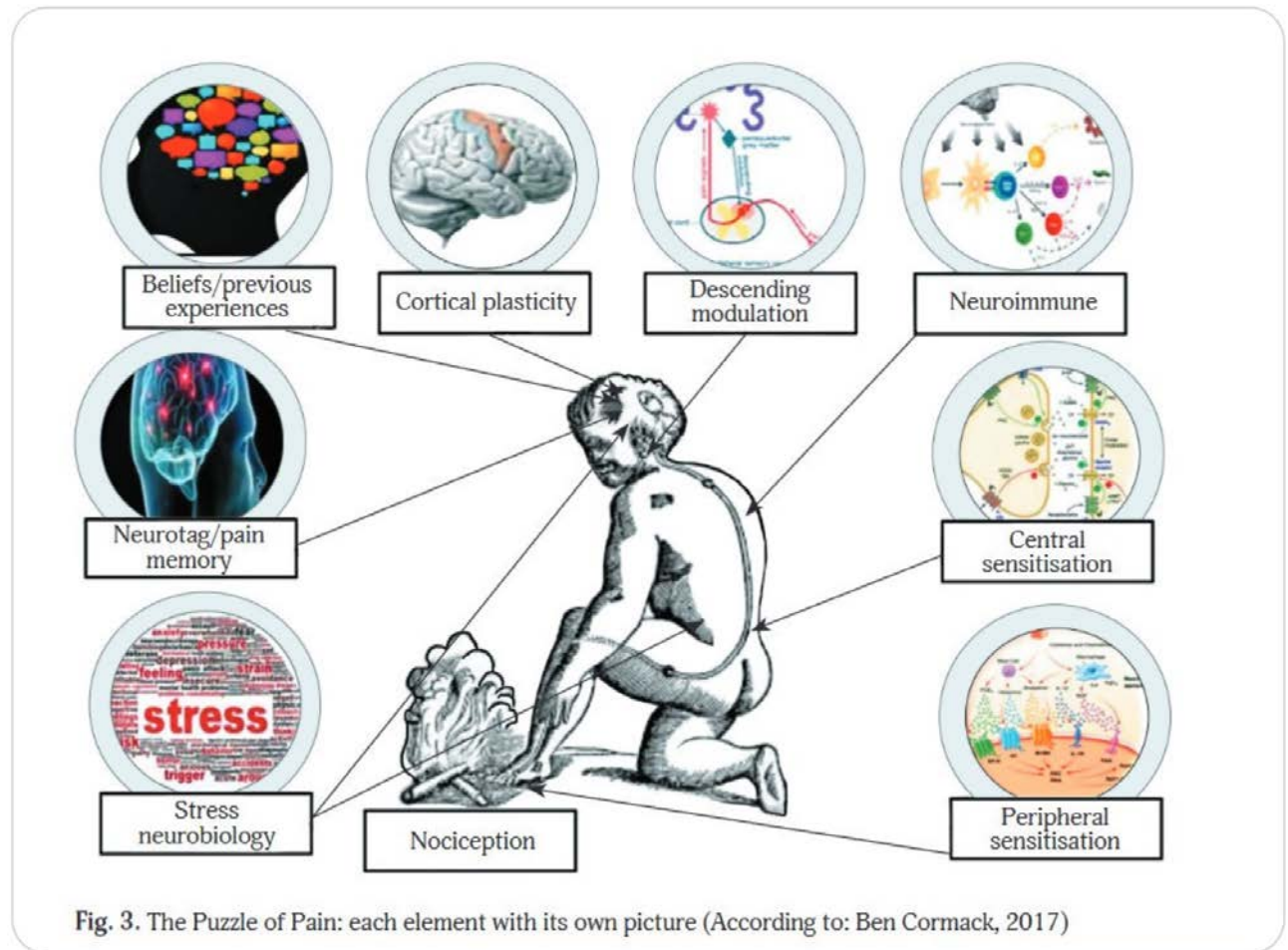
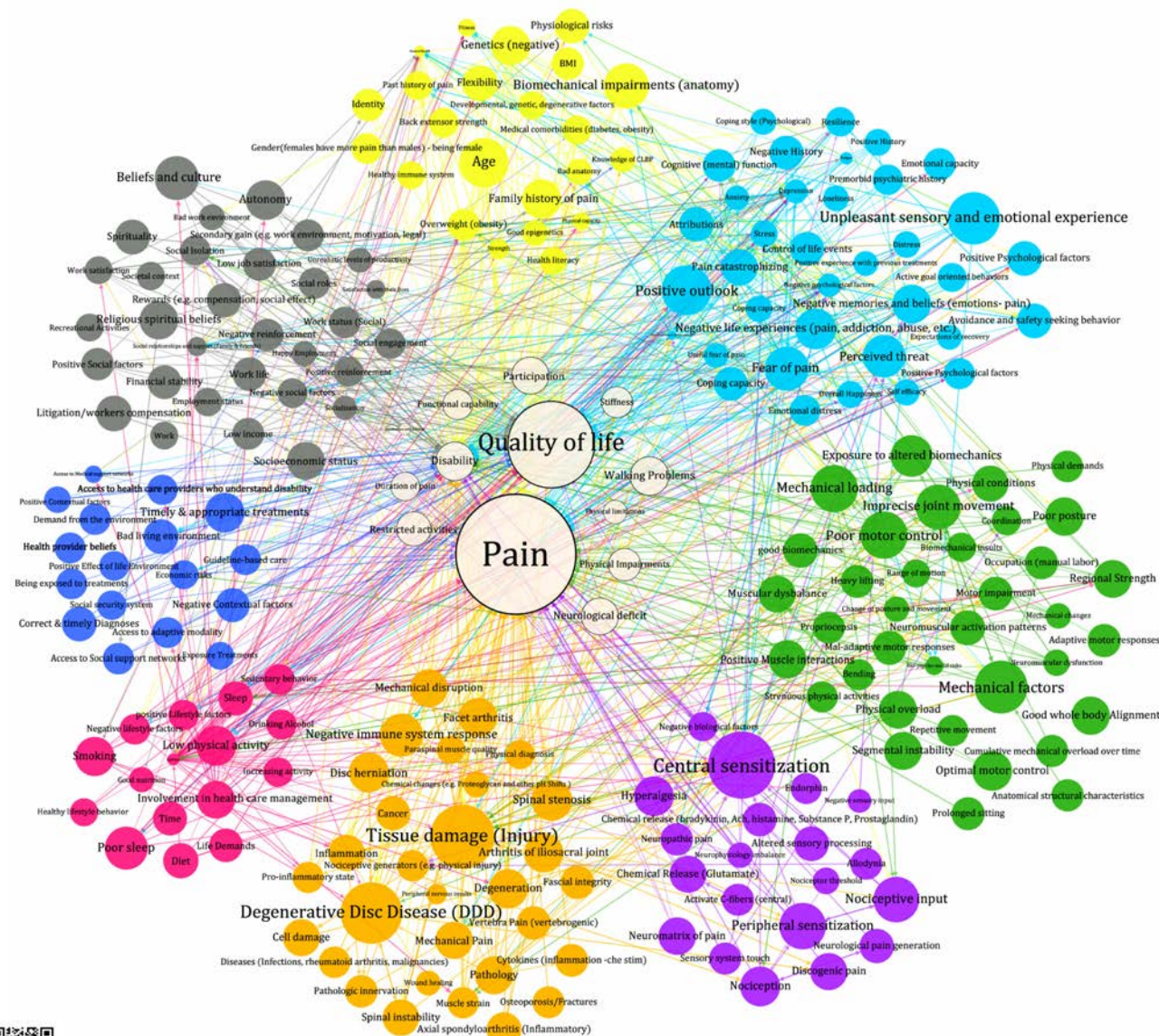


Fig. 3. The Puzzle of Pain: each element with its own picture (According to: Ben Cormack, 2017)



People can be complex





The SYSTEM is complex

- Impact of an “injury”
- Personal context
- Rural context
- Resources available

we have good evidence but don't use it!

<10 per cent of people with chronic non-cancer pain gain access
to effective care, despite existing treatments having the potential
to help 80 per cent of people

[Henry 2008]

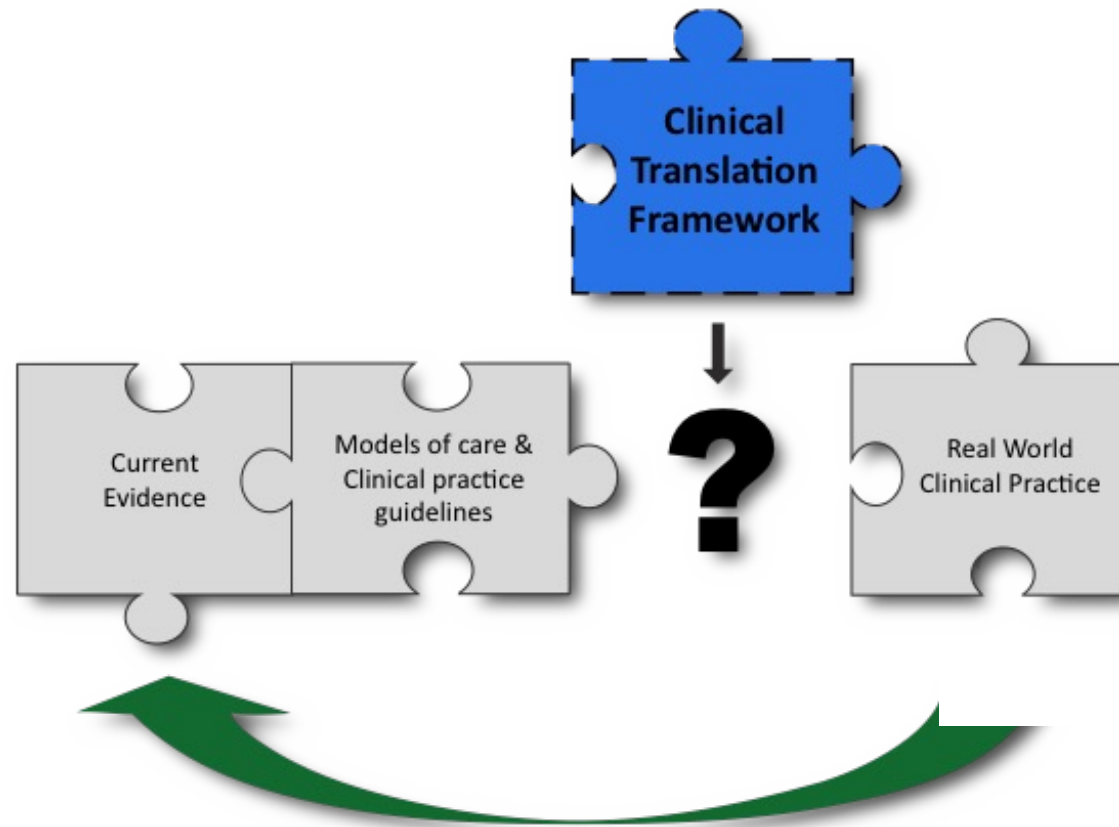
Healthcare advice is conflicting

All these messages were given to the same person with back pain:

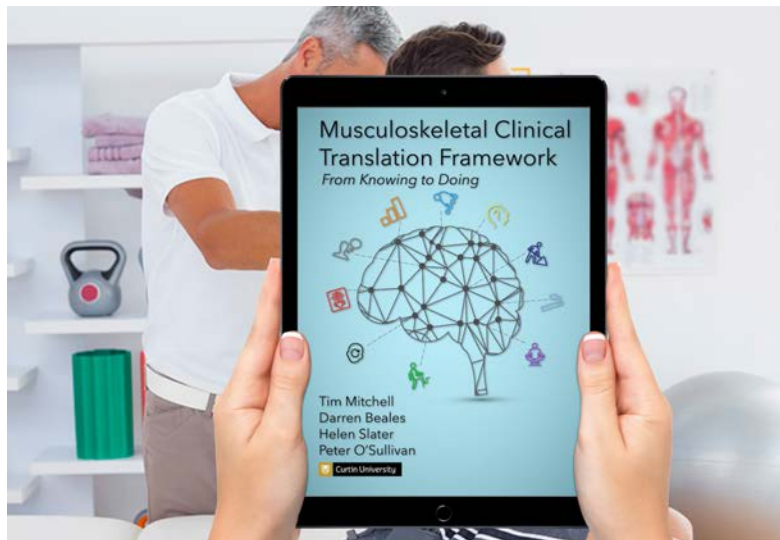
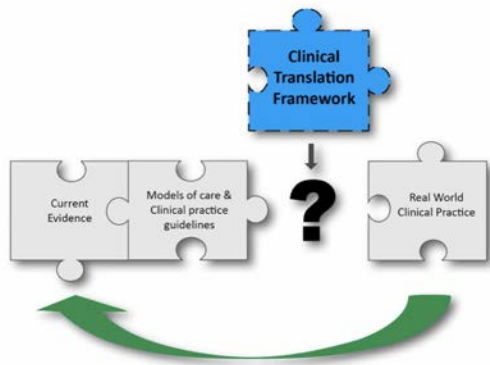
- You have injured your disc
- You will never deadlift again
- You should think about a change in career
- You will probably need surgery
- You will be fine in 2 weeks – we all have a disc bulge
- You should get back to work ASAP



Need a framework to operationalise the model



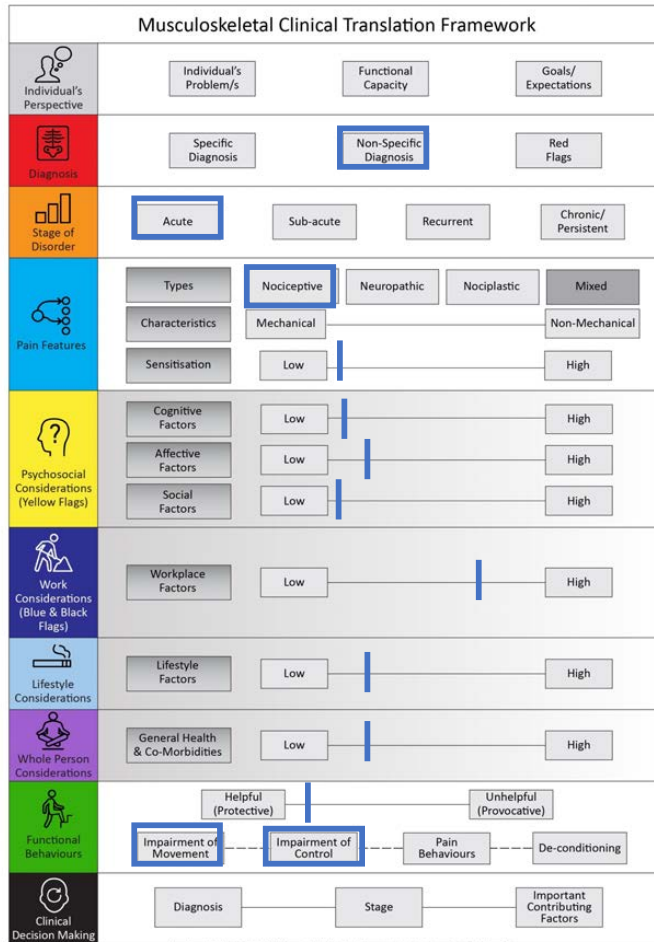
Mitchell, Beales, Slater & O'Sullivan, 2018



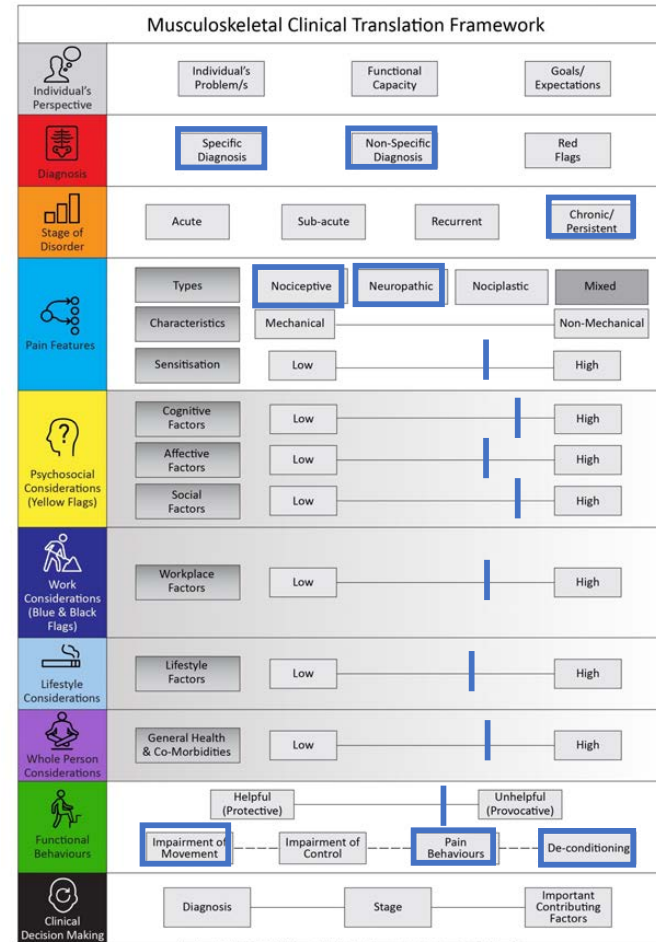
Musculoskeletal Clinical Translation Framework			
Individual's Perspective	Individual's Problem/s	Functional Capacity	Goals/ Expectations
Diagnosis	Specific Diagnosis	Non-Specific Diagnosis	Red Flags
Stage of Disorder	Acute	Sub-acute	Recurrent Chronic/ Persistent
Pain Features	Types	Nociceptive	Neuropathic Nociplastic Mixed
	Characteristics	Mechanical	Non-Mechanical
	Sensitisation	Low	High
Psychosocial Considerations (Yellow Flags)	Cognitive Factors	Low	High
	Affective Factors	Low	High
	Social Factors	Low	High
Work Considerations (Blue & Black Flags)	Workplace Factors	Low	High
Lifestyle Considerations	Lifestyle Factors	Low	High
Whole Person Considerations	General Health & Co-Morbidities	Low	High
Functional Behaviours	Helpful (Protective) ————— Unhelpful (Provocative) Impairment of Movement — Impairment of Control — Pain Behaviours — De-conditioning		
Clinical Decision Making	Diagnosis	Stage	Important Contributing Factors

Developed by Postgraduate Musculoskeletal Physiotherapy Teaching Team, Curtin University.
 Tim Mitchell, Darren Beales, Helen Slater & Peter O'Sullivan

working examples of clinical application



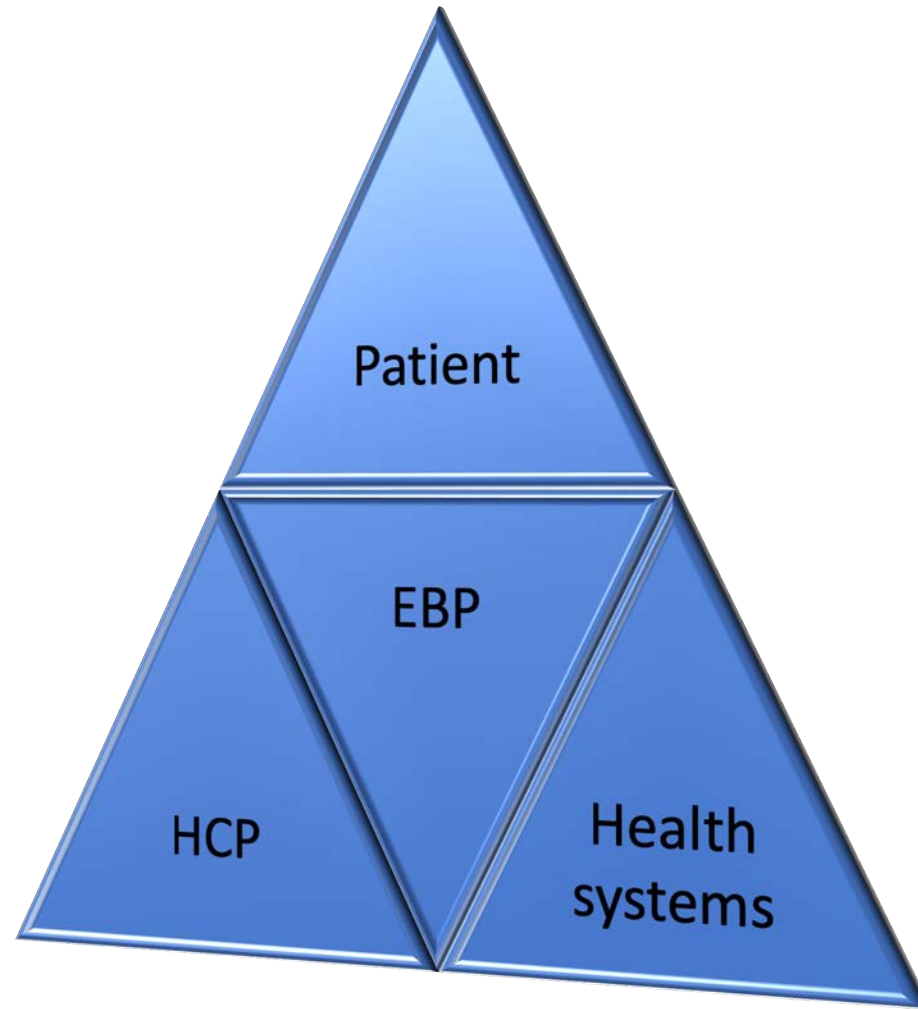
Developed by Postgraduate Musculoskeletal Physiotherapy Teaching Team, Curtin University. Tim Mitchell, Darren Beales, Helen Slater & Peter O'Sullivan



Developed by Postgraduate Musculoskeletal Physiotherapy Teaching Team, Curtin University. Tim Mitchell, Darren Beales, Helen Slater & Peter O'Sullivan



MCTF is part of broader system



What if I am not confident in this area?

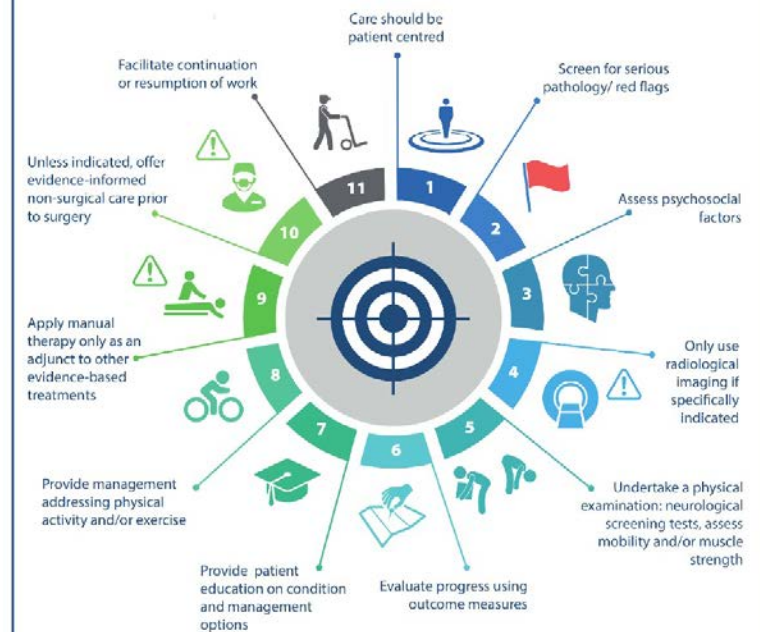
Guideline Based Care - Msk Pain

Lin et al, BJSM 2019

- Patient centred care
- Screen for pathology / red flags
- Assess psychosocial risk
- Judicious radiology
- Physical assessment
- Monitor outcome
- Early exercise
- Non-surgical care first*
- Encourage work participation

11 Best Practice Recommendations for Care in Musculoskeletal Pain

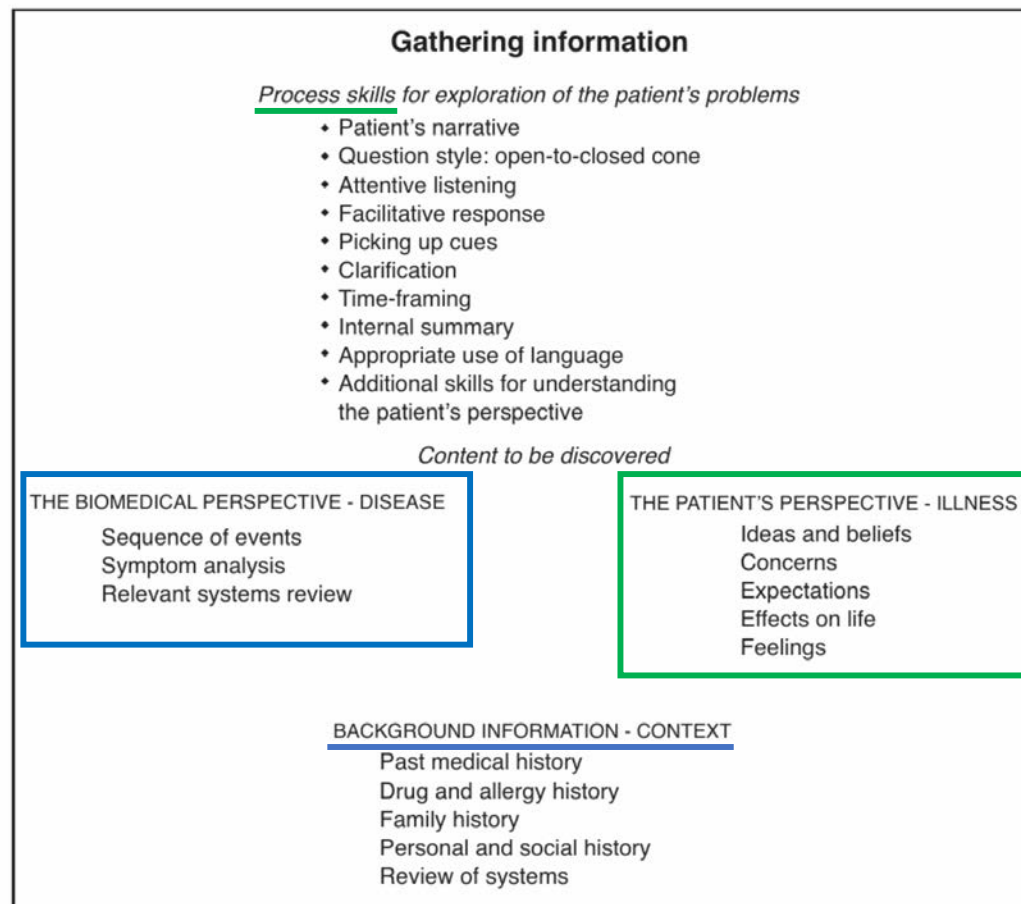
Infographic summary of a systematic review undertaken to identify common recommendations for high-quality care for the most common musculoskeletal pain sites encountered by clinicians in emergency and primary care



Reference: Lin J, et al. Br J Sports Med 2019;0:1–10. doi:10.1136/bjsports-2018-099878



How do you conduct a clinical consult?



▼ Skills for Communicating with Patients



by Jonathan Silverman, , Suzanne Kurtz, , and Juliet Draper

PUBLISHER
Taylor & Francis Group

DATE
2013-09-28

More...



Figure 1.3 An example of the interrelationship between content and process.



We need to make sense of the story



How it started: Cause of injury / symptom onset

- Trauma
- Specific incident
- Repetitive use / overload
- Insidious
 - Red flag disorder
 - Did some factors “pre-sensitise”?



Clinicians need to understand pain

but MORE importantly...

... clinicians need to understand what the person understands about their pain



Example 1

Helpful v Unhelpful

Person with acute knee sprain...

... I need to rest for a bit then slowly build back to full function

... I need to be really careful so I don't damage my knee more and end up like my mum



Example 2

Helpful v Unhelpful

Person with persistent back pain...

... My back is worn out. I just need to manage as best I can

... I have a pinched nerve and I could end up in a wheelchair



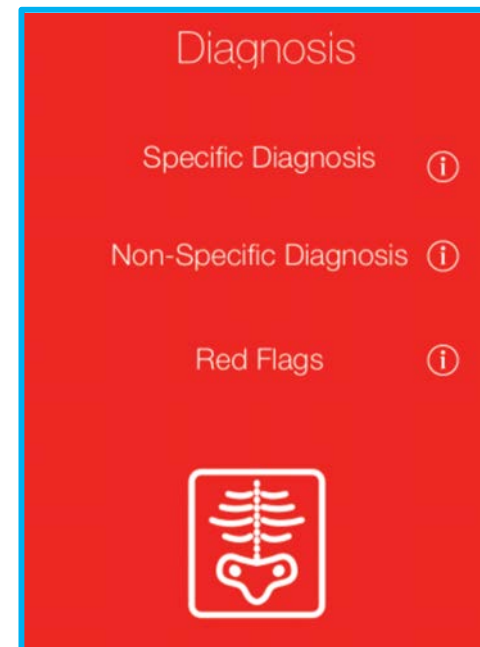
Different diagnoses for the same problem

A person presents to their medical practitioner describing three days of medial knee pain after a day working in the garden.

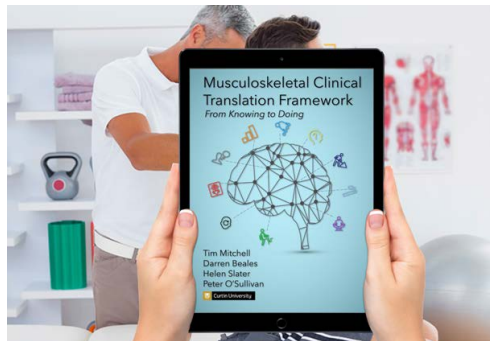
They could be offered the following diagnoses:

- Knee sprain
- Degenerative meniscal tear
- Patellofemoral pain
- Arthritis
- Non-specific knee pain
- An irritated knee ✓

But it depends....



enablers to facilitate integrated pain care



painHEALTH

PainDetect Questionnaire Response

Neuropathic Pain Likely

Your score means a neuropathic pain component is likely (> 90%). It is advisable to seek advice from your doctor or health care professional. A clinical examination will help direct the most appropriate management for your pain.

[PRINT YOUR RESULTS](#) [TAKE QUIZ AGAIN](#)

Clinically supported information, tips, support and personal stories to help you to manage musculoskeletal pain.
Visit painhealth.com.au/edu.au

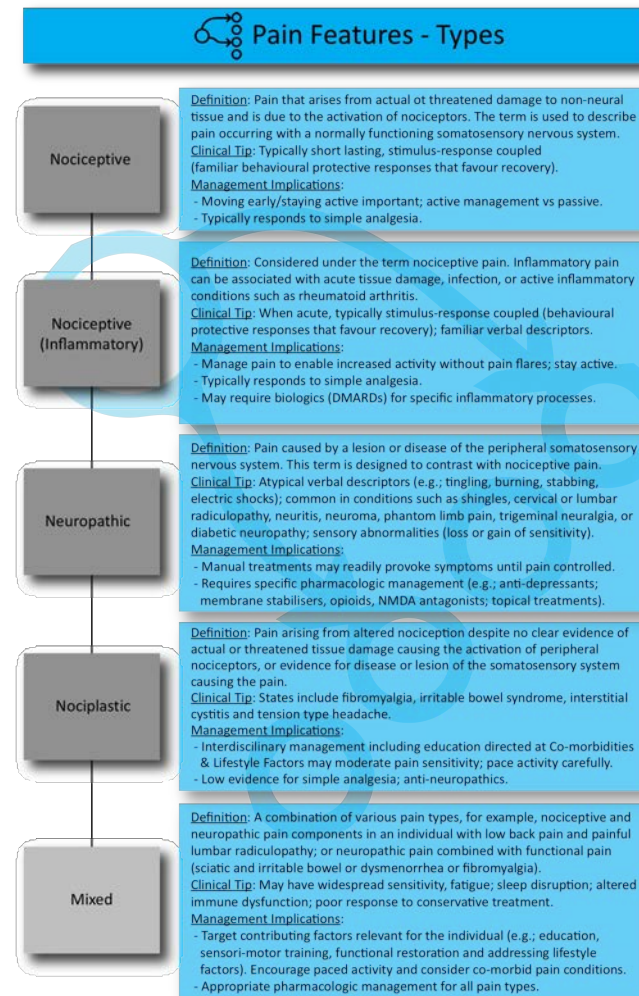
painHEALTH HOME ABOUT STORIES CONDITIONS SELF CHECKS MANAGEMENT FURTHER ASSISTANCE

Pain management

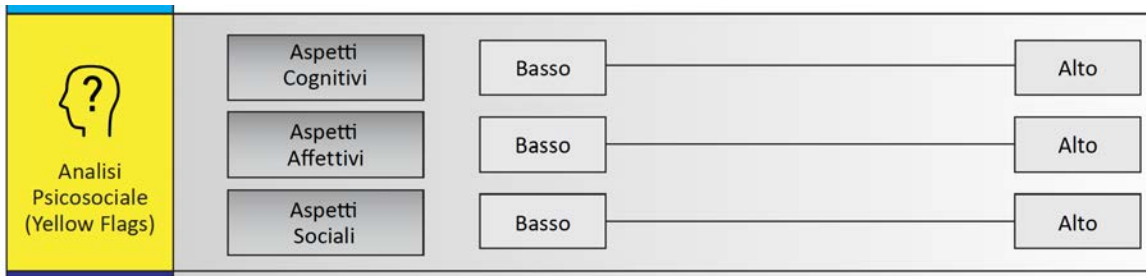
Learn how to help manage your musculoskeletal pain through clinically supported tips, tools, research and more.

Management About Pain
Management Neuroplasticity
Management Pain types

Figure 8: Pain Features - Types



Psychosocial = Psychological + Social



Cognitive (Thoughts and beliefs)

Attention, attitudes, beliefs, expectations, appraisal, self-efficacy, catastrophizing, coping

Affective (Emotions)

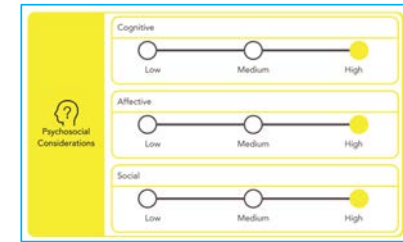
Depression, anxiety, stress, fear, worry, anger / frustration

Social

Culture, education, relationships, health literacy, socioeconomics

Pre-sensitised to onset of symptoms

- Can explain why symptoms start without changes in physical load
- Low mood, high stress, heightened anxiety + poor sleep
- May be an underlying 'trait' of the person
- May be an acute 'state' or episode
- Often in combination with other factors
 - Lifestyle
 - General health



Örebro Musculoskeletal Pain Screening Questionnaire (Short-form)(Linton et al, 2010)

Name: _____

Date: _____

1. How long have you had your current pain problem? Tick (✓) one.

- 0-1 weeks [1] 1-2 weeks [2] 3-4 weeks [3] 4-5 weeks [4] 6-8 weeks [5]
 9-11 weeks [6] 3-6 months [7] 6-9 months [8] 9-12 months [9] over 1 year [10]

2. How would you rate the pain that you have had during the past week? Circle one.

0 1 2 3 4 5 6 7 8 9 10 []
No pain *Pain as bad as it could be*

For items 3 and 4, please circle the one number that best describes your current ability to participate in each of these activities.

3. I can do light work (or home duties) for an hour.

0 1 2 3 4 5 6 7 8 9 10 (10-)[]
Not at all *Without any difficulty*

4. I can sleep at night.

0 1 2 3 4 5 6 7 8 9 10 (10-)[]
Not at all *Without any difficulty*

5. How tense or anxious have you felt in the past week? Circle one.

0 1 2 3 4 5 6 7 8 9 10 []
Absolutely calm and relaxed *As tense and anxious as I've ever felt*

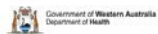


enablers to facilitate integrated pain care



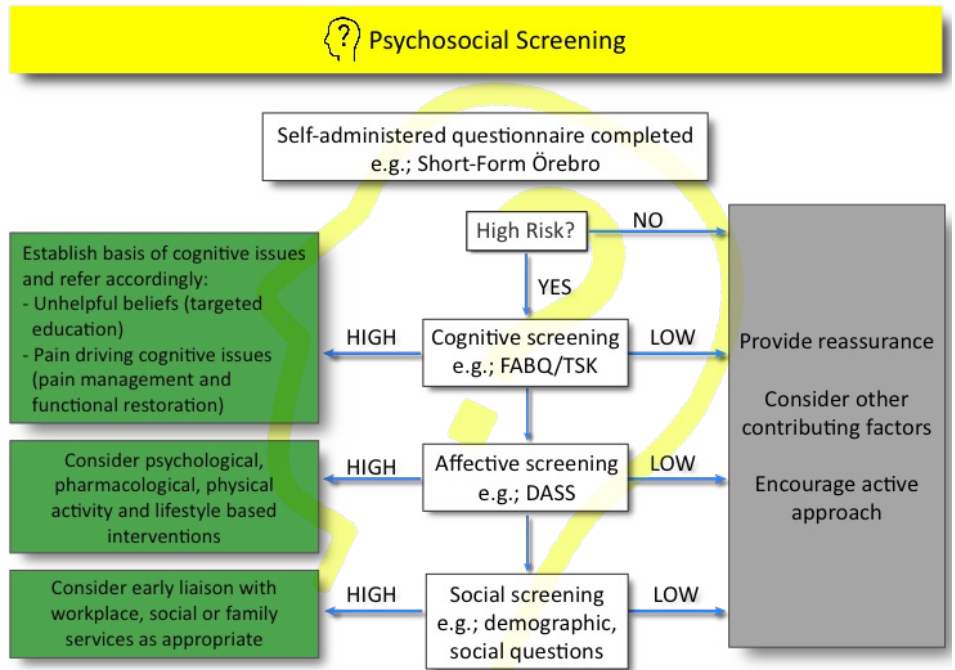
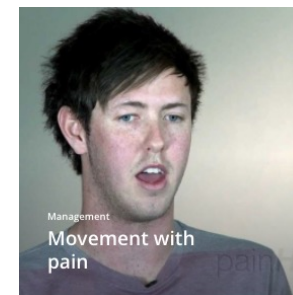
RESOURCES REFERENCES CONTRIBUTORS

- This Way Up - How we can help
- eCentre Clinic - Pain course
- Australian Psychological Society - Find a Psychologist
- painHEALTH - Approaching pain podcast



Pacing Guide

This sheet shows an example of how you can structure a paced approach to different activities. You may prefer to use an 'App' (a phone application). These 'Apps' are often freely downloadable from iTunes and can be programmed to suit your activity levels and makes it easy to use on a daily basis and keep a record of your progress.



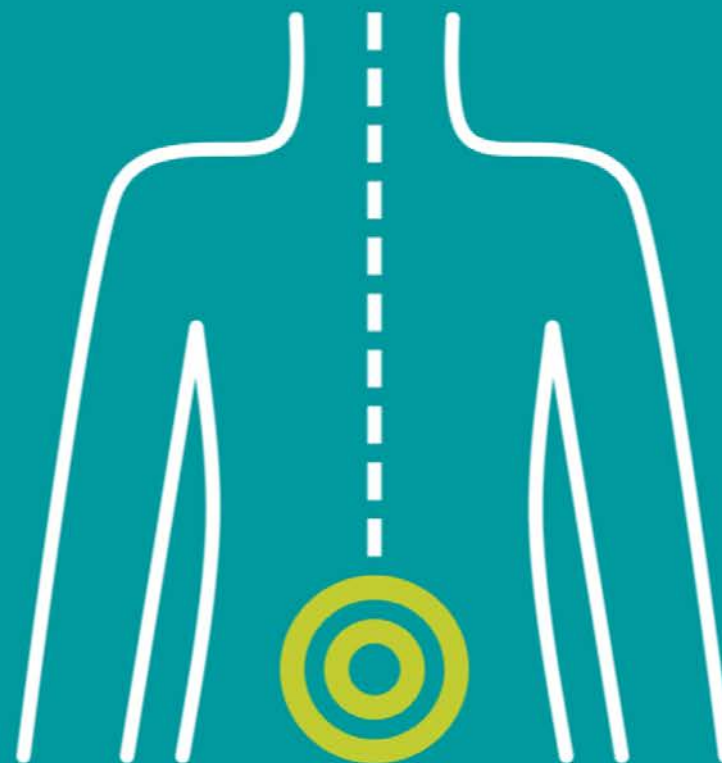
So, how do we achieve quality care?

'Right care': right time, right team, right place

- Person-centred, value-based health care
- Systems approach essential [screening/outcomes]
- Multidimensional therefore MUST include screening of all relevant dimensions
- Evidence-informed best practice pain management principles
 - low disability simple solution
 - high disability more complex

Low Back Pain Clinical Care Standard

September 2022



Risk of recurrence and progression after an episode of low back pain



**75% will have a favourable outcome
even without treatment**



**25% will develop
ongoing symptoms
and limitations**

SOURCE: Stanton et al. Spine (Phila Pa 1976). 2008;33:2923-8

Quality Statements

1. Initial clinical assessment
2. Psychosocial assessment
3. Reserve imaging for suspected serious pathology
4. Patient education and advice
5. Encourage self-management and physical activity
6. Physical and/or psychological interventions
7. Judicious use of pain medicines
8. Review and referral

- ✓ **Recognise the signs of serious pathology**
- ✓ Provide evidence-based care once serious pathology has been ruled out
- ✓ Avoid unnecessary interventions



Remember
most acute low
back pain will
resolve
without
intervention




Provide advice
and support
self-
management



Always review
a patient
if their progress
is not following
the expected
pattern

AUSTRALIAN COMMISSION
ON SAFETY AND QUALITY IN HEALTH CARE

Clinical Care
Standards



Low Back Pain
Clinical Care Standard

September 2022

AUSTRALIAN COMMISSION
ON SAFETY AND QUALITY IN HEALTH CARE

Clinical Care
Standards

INFORMATION
for clinicians

Low Back Pain
Clinical Care Standard

Low back pain refers to pain felt in the lower part of the spine (lumbar spine) located between the twelfth rib and the inferior buttock crease. It is often accompanied by pain in one or both legs.

The pain may vary over time and severity. It is important to manage the pain early to prevent it from becoming chronic. There are many causes of low back pain, and it is important to identify the cause to guide management.

1 Initial clinical assessment

The assessment of a patient with a new presentation of low back pain involves a history and physical examination. It is important to identify any red flags that indicate a serious underlying condition. The assessment should also include a psychosocial assessment to identify any factors that may be contributing to the pain.

2 Psychosocial assessment

Early in pain management, a patient with low back pain, with or without leg pain or other neurological symptoms, is assessed and assessed for psychosocial factors that may affect their recovery. This includes assessing their understanding of and concerns about, prognosis and pain, and the impact of pain on their life. The assessment is repeated at subsequent visits to measure progress.

3 Reserve imaging for suspected serious pathology

Examination of imaging and its use is reserved to diagnosing low back pain not associated with a patient's likely and appropriate clinical management. Imaging should be reserved for suspected serious pathology. The diagnosis and management of suspected serious pathology are reported and discussed with the patient.

4 Patient education and advice

A patient with low back pain is provided with information about their condition and recovery options to increase their understanding and adherence to their treatment plan. The potential benefits, risks and costs of medicines and other treatments are discussed, and the patient is encouraged to ask questions and share in decisions about their care.

Low Back Pain in the Hospital 2021:1

AUSTRALIAN COMMISSION
ON SAFETY AND QUALITY IN HEALTH CARE

Clinical Care
Standards

QUICK GUIDE
for general practitioners

Low Back Pain
Clinical Care Standard

Quick guide for general practitioners

This quick guide outlines the care described in the Low Back Pain Clinical Care Standard for general practitioners for a new or acute episode of low back pain.

1. Conduct an initial clinical assessment

History (to be taken early in each new presentation of low back pain):

- Onset of pain: when, how, duration, location and spreading pattern (to one or both legs)
- Associated symptoms: numbness, tingling, weakness, loss of bladder or bowel control
- Previous episodes
- Factors of occupational or recreational activities that may be related to the pain
- Factors of psychosocial stressors that may be related to the pain

Examination

- Appropriate investigations (X-ray, MRI, CT scan, ultrasound) as required
- Referral for investigation for further assessment (not appropriate for most patients)

Management

Patients with low back pain should be managed with a stepped approach to treatment. The first step is to provide information and advice to the patient. If the pain is not improving, the next step is to provide analgesia. If the pain is still not improving, the next step is to provide physiotherapy. If the pain is still not improving, the next step is to consider referral to a specialist.

Concomitant

Consideration of concomitant conditions such as depression, anxiety, chronic pain, and other conditions that may be contributing to the pain.

Quick guide for general practitioners 1

AUSTRALIAN COMMISSION
ON SAFETY AND QUALITY IN HEALTH CARE

Clinical Care
Standards

INFORMATION
for patients

Common questions
about low back pain

Low back pain is a common problem. Here are the answers to some frequently asked questions.

1 What is low back pain?

Low back pain is pain felt in the lower part of the spine (lumbar spine) located between the twelfth rib and the inferior buttock crease. It is often accompanied by pain in one or both legs.

2 Do I need imaging to make sure my back is OK?

Imaging is not always necessary to diagnose low back pain. It is reserved for suspected serious pathology. The diagnosis and management of suspected serious pathology are reported and discussed with the patient.

3 Could my back pain be serious?

Most cases of low back pain are not serious. However, there are some red flags that indicate a serious underlying condition. These include: severe pain, numbness, tingling, weakness, loss of bladder or bowel control, and pain that is not improving with treatment.

4 How can mood or stress affect my back pain?

Psychosocial factors can affect the recovery of low back pain. It is important to identify any factors that may be contributing to the pain and to address them as part of the management plan.

Common questions about low back pain 1

CLINICAL CARE STANDARD

FACTSHEETS

QUICK GUIDES FOR GPs AND
EMERGENCY DEPARTMENTS

INFORMATION FOR
CONSUMERS

Work related pain

Specialist physiotherapy reviews

Pain Options **Specialist Clinical Reviews** for 'complex cases' –

1/3 workers had complex conditions – expect protracted recovery

86% workers 'do not understand what is wrong'

74% workers expressed unhelpful beliefs / messages – pathology, recovery expectations, what treatment was required (passive vs active)

65% guideline based care not followed early

Recovery Options Review – key principles

1. Targeted 60 minute patient interview and thorough clinical assessment
Identifies key barriers (bio-psyche-social) and solutions **relevant to the individual**
2. Management commences immediately - targeted education which helps them understand their problem – reassure
3. Provide an action plan which empowers worker with ‘active treatment’
4. Exposure to **Clinical Practice Guidelines**
 - = turn the workers into discerning buyers of healthcare!
5. Timely follow-up review (1 - 4 weeks)



Recovery Options Review

Worker's Name: Dwayne PIPE **Date of Birth:** 26th January 1982
Date of Injury: 23/3/18 **Claim Number:** 123456789
Occupation: Truck Driver **Assessment Date:** 8/5/18

Presenting Problem: Low back pain
Reason for referral: Minimal improvement. Sorer with exercise
Current Diagnosis: L5/S1 disc bulge
Current Status: 6 weeks post injury. Back worse with exercise. Currently certified unfit for work

Factors identified that may contribute to delayed recovery

- Current hydrotherapy exercise program aggravates his pain.
- Signs of increased pain sensitisation (allodynia and hyperalgesia)
- Very poor sleep
- No light-duties available at work

Action Plan (guideline-based management recommendations*)

- 1. Specialist Physiotherapy Review**
 Dwayne is not improving despite appropriate management and no significant pathology on his pain. His increased pain sensitisation requires specialist assessment
- 2. Medication Review**
 Dwayne may benefit from centrally acting pain medications. Suggest GP review.
- 3. Work Capacity**
 Suggest focus on improved symptom control before commencing return to work.

Additional Considerations

Dwayne has been provided education regarding his MRI scan findings and the importance of exercise to assist recovery. He remains concerned about getting pain with exercise.

Review date: nil – suggest specialist physiotherapy review

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* Recommendations are based on current clinical guidelines: [ACI Acute LBP Guidelines 2018](#)

Practical Solutions for Complex Problems

Manual treatments such as massage and acupuncture can be beneficial when combined with prescribed

ROR Education and Treatment Planning

- Clinical Practice Guideline- discerning buyers
- 1-page report – areas of focus for early intervention and clear treatment recommendations
- Both documents aim to help empower the worker and facilitate conversations around treatment, return to work, and active participation

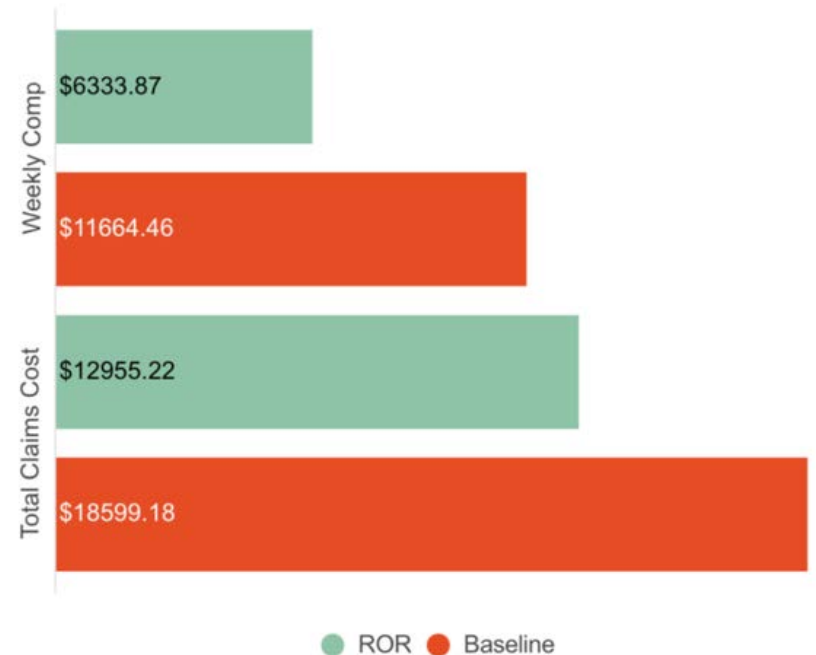
Outcomes?

Over 300 workers (20% telehealth)

Reduced risk of long term work disability (Orebro 60/100 to 48/100).

46% reduction in weekly compensation costs over first 26 weeks of claim

31% reduction in total claims costs over first 26 weeks of claim



Summary

- Rural healthcare can be challenging
 - And rewarding
- Understand clinical guidelines
 - low disability simple solution
 - high disability more complex solutions
- Resources are available
 - Pain Health
 - LBP Clinical Care Standard
- Telehealth services are growing

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