

# Outline of talk 1. Osteoarthritis including back pain 2. Painful shoulders 3. Gout - acute and chronic Potential areas of controversy Opioids Placebos



# Osteoarthritis including back pain

### Key Points

- Poor correlation between radiology and symptoms
- Many treatments are recommended on the basis of short term trials of efficacy
- ► Adverse effects are chronic and commulative
- Non-pharmacological treatments are nearly always to be preferred to drugs



# 1

## Spinal canal stenosis

- Back pain radiating into buttocks and legs with walking
- "Neurogenic claudication" Relief by forward flexion
- Have to be specific where is the pain, does it go into your legs
- Good evidence for epidural steroids if true lumbar canal stenosis
- "small" decompressive laminectomies can be effective and safe

# **Sciatica**

- Have to ask patient does pain go into the leg?
- In the elderly signs such as straight leg raising are not as reliable as in the younger patients with disc bulges and protrusions
- CT-guided nerve root injections by experienced radiologists are effective I'm unaware of any evidence for pregabalin (but everyone is on it)
- Several trials in progress one through George Institute, Sydney

# Back pain that isn't back pain

- ▶ Loin pain perhaps kidney, perhaps referred from thoracic facet joint
- ▶ Lateral rib impaction more common with lateral ribs on iliac crest
- ▶ Sacral pain sacral insufficiency fractures, metastases
- Coccyx pain hardly ever find a cause
- Lower thoracic/upper lumbar pain referred from abdomen eg AAA

# "Benign Back Pain"

- Exercise is the best treatment
- ▶ Core muscle strengthening start with supervised exercise Lumbar support elasticised belt - not a rigid brace
- > Parcetamol safe but not very effective with chronic use
- NSAIDs contraindicated in most people (not just the ESKDs)
- Interventions like facet joint injections are, on average, ineffective
- Cervical facet joint injections have some evidence





# 2

# Orthotics and braces

- Very rarely useful
- Expensive, usually discarded
- Comfortable walking shoes just as effective as custom-made orthotics to "unload" medical compartment
- Knee braces uncomfortable and always discarded

# Topical agents for OA knee

- Underutilised
- ► Topical capsaicin reported effectiveness, I have never used
- Topical "Deepheat" agents not persisted with long term
- Topical Voltaren
  - Trials over 2-4 weeks 40% of active agent patients improve 50%, 20% of inert agent patients improve Trials over 8-12 weeks - 60% of active agent patients improve, 50% of inert agent patients improve

# Paracetamol for chronic OA

- > Placebo-controlled trials indicate minimal long-term effectiveness eg 4 units on a 0-100 VAS
- Illustrates fluctuating nature of pain in OA knee
- Has changed my practice less use of long term Panadol, more short term use and encouragement to exercise
- ► At 4000mg per day, high incidence of elevated LFTs

# **NSAIDs for OA**

- Effective, esp. Voltaren 50mg tds, but short and long-term toxicity makes it rarely usuable never in ESKD
- We must avoid another drug orgy like the 1990s NSAID epidemic (Or are we in a storm of them already - vitamin D, PPIs, gabapentin and pregabalin, oxycontin)

# Intra-articular injection for OA ► IA injections of steroid more effective pain relief than placebo injections

- 44% improve >20mm on 0-100 mm VAS In some trials, IA hyaluronic acid is more effective than IA steroids
  - (22mm on 0-100mm VAS at 8 weeks)
  - Why aren't HA/Synvisc injections used more often in Australia?
  - Early protocol required 4 injections at weekly intervals
  - About 1:20 have an inflammatory reaction
  - Not funded funding agents consider not cost-effective

# Glucosamine and chondroitin Fish Oil

- Minimal effect of the combination on joint space narrowing, compared to placebo or individual components difference is trivial
- All groups had equivalent reduced pain over 2 years including placebo group
- High dose fish oil (4.5gm omega3 fatty acids) was <u>less</u> effective than low dose (0.45gm) over a 24 month OA knee trial

# Opioids, gabapentin, pregabalin

- Like most rheumatologists I swallowed the "opioids are safe for non-malignant pain" Kool-Aid.
- May be safe for periods of weeks
- Long term benefit is small, toxicity is large
- I now emphasise the side-effects and try never to start narcotics
- So far I've never prescribed Palexia/tapentadol
  - 12 week trial 50% improvement in 32% of Palexia-treated patients, 24% of placebotreated patients and 17% of oxycodone-treated patients
  - I'll wait for long term results and toxicity
- No evidence for gabapentin or pregabalin in OA

# **Shoulder Pain**

- Shoulder pain is very common with aging, and more common in ESKD
- Mostly rotator cuff degeneration
- Less often
  - osteoarthritis of the glenohumeral or acrominoclavicular joint
     Cuff tear arthropathy/ Milwaukee shoulder
  - Acute and chronic gout
- Beta2 macroglobulin amyloid (dialysis)
- Referred from neck or chest

# **Rotator Cuff Degeneration**

- Tendonosis, tendon tears, subacromial bursitis, impingement syndrome regard as a spectrum of conditions with same treatment
- Exercise/physiotherapy is the best long term treatment for rotator cuff degeneration
- Aim is to stabilise the humeral head against the glenoid, preventing riding up of the humeral head with abduction
- Steroid injections into subacromial space reduce pain and inflammation.
   Stopping the pain encourages restoration of normal scapulohumeral motion.
   Problem will recur unless stabilisers subscapularis, infraspinatus and teres minor are strong and functioning

# **Glenohumeral OA**

- More difficult to manage
- Glenohumeral joint injections some help
- Short courses of paracetamol for exacerbations
- Avoid opioids, Tramal, Lyrica
- Suprascapular nerve block is proven to be effective in painful shoulders
   Experienced practitioners do it blind, I get Carl Bryant to do it.







# Acute gouty arthritis

- Can't use NSAIDs in CKD. Rarely get to use NSAIDs in hospital patients
   Change in colchicine protocol
- 2 0.5mg tablets stat and one an hour later, then one BD
- Never given as one every hour until benefit or diarrhoea
- More use of oral prednisolone
- Trial used 35mg prednisolone/day (25mg/day may be enough)
   Intraarticular steroids
  - Fastest treatment if one or two accessible joints

# Recurrent or tophaceous gout

- More acceptance that allopurinol is safe in renal failure if used carefully
   Allopurinol has been underdosed until recently because of fear of allopurinol hypersensitivity syndrome (AHS)
- AHS probably is more common in patients with CKD but still rare
- AHS is idiosyncratic not dose dependent
- Start with low dose (50-100mg/day) and increase slowly with steroid cover
- Treat to target serum urate <0.35</p>
- ▶ Patients without CKD can go to 900mg/day
- Patients with CKD upper limit uncertain, I have patients on 450mg/day
- I genotype Asian patients and don't give allopurinol to those who are HLA-B 5801
- Febuxostat offers an alternative in allopurinol-sensitive patients

![](_page_4_Picture_19.jpeg)

# Do we have safe and potent analgesics for chronic use?

# ►NO!

We do our best with what we have and add our selves

![](_page_4_Picture_23.jpeg)

# A word on Placebos

- I think many of our treatments rely on the placebo effect
- Truism the experience of pain is strongly influenced by emotion
- A patient who is listened to, takes part in decisions, understands the goals of treatment does better
- What, or who, is the most powerful placebo in this room?

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- Dr Frank Brennan!

![](_page_5_Picture_12.jpeg)