Non Malignant Pain: Symptom Management

Renal Care Symposium July 2018 Anica Vasic Pain Management Unit St George Hospital

- Definitions
- Prevalence
- Assessment
- Treatment
- Medications
- Newer agents: tapentadol, cannabis
 - Dr Peter Langron

Pain

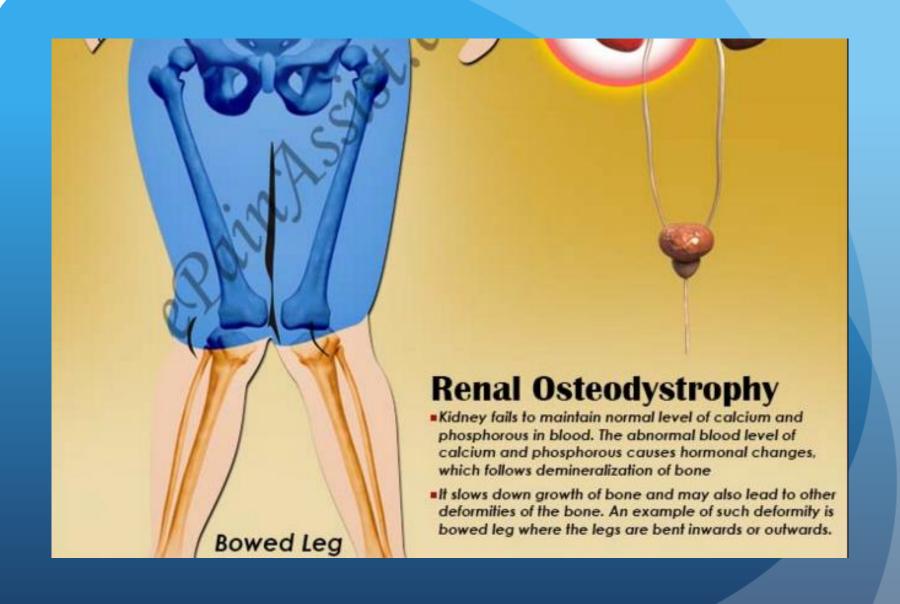
Unpleasant sensory and emotional sensation +/potential tissue damage

 Acute ~ sudden onset, usually definite cause, usually resolves, eg trauma, surgery, rupture cyst

 Chronic ~present most days for period 3-6 months or more, last beyond expected time eg after surgery, trauma, may not have definite cause

What causes pain in patients with CKD?

- Multifactorial:
 - Ischaemic
 - Neuropathic
 - Bone
 - Musculoskeletal pain (60-70%)
- Primary disease
 - Polycystic renal disease
- Bone disease
 - Osteodystrophy
 - Osteomalacia



- Renal failure
 - Uraemic neuropathy
 - Calciphylaxis

- Co-morbid conditions
 - Cardiovascular disease
 - Ischaemic or diabetic neuropathy
 - Peripheral vascular disease

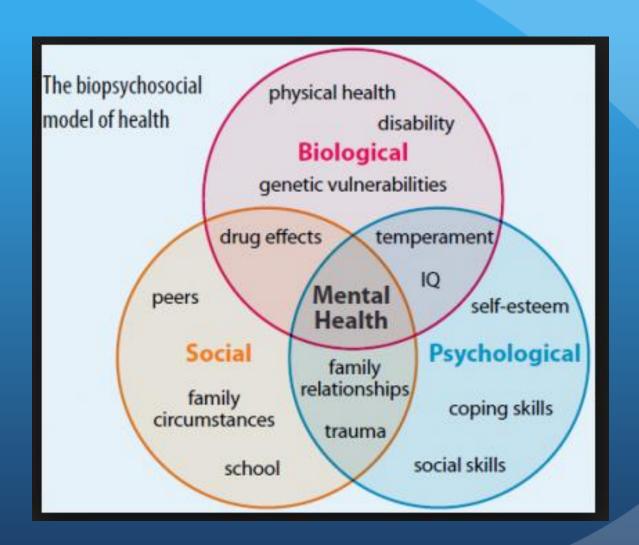
Assessment

Ask

• Chronic (persistent) pain has biopsychosocial elements

• Comprehensive assessment must be made

• Formulation of an appropriate treatment plan

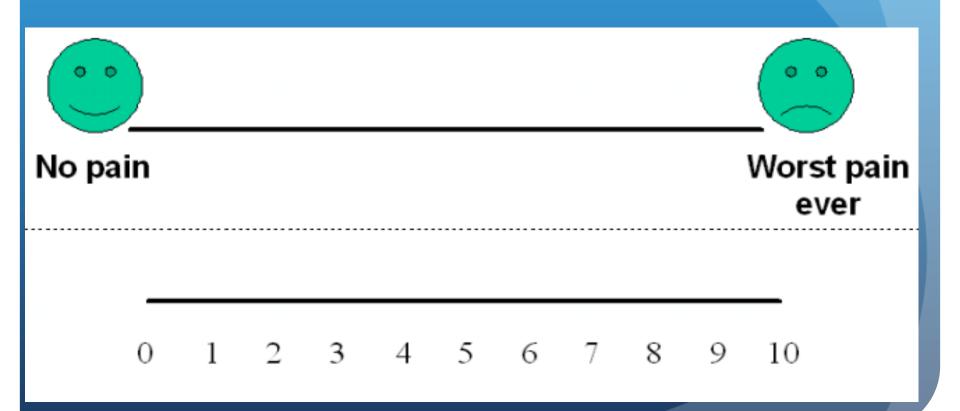


Assessment Tools

- VAS/Faces/Number
- ESAS-Renal Edmonton Symptom Assessment Systemrevised Renal
 - Allows for assessment other factors associated with pain
 - depression
 - itch
 - nausea

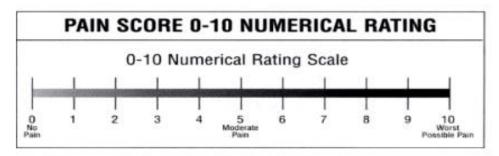
Assessment Tools

VAS: Visual Analogue Scale



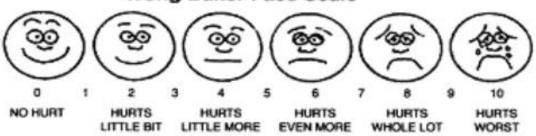
Numerical Rating Scale Faces Scale

Numerical rating scale (NRS)



Faces rating scale (FRS)

Wong Baker Face Scale



Edmonton Symptom Assessment System Revised: Renal (ESAS-r: Renal)

Please circle the nu	mber	that	best	desc	ribe	s hov	v you	feel	NOV	l:		
No Pain	0	1	2	3	4	5	6	7	8	9	10	Worst Possible Pain
No Tiredness (Tiredness = lack of e	0 energj	1 y)	2	3	4	5	6	7	8	9	10	Worst Possible Tiredness
No Drowsiness (Drowsiness = feeling	0 slee	1 py)	2	3	4	5	6	7	8	9	10	Worst Possible Drowsiness
No Nausea	0	1	2	3	4	5	6	7	8	9	10	Worst Possible Nausea
No Lack of Appetite	0	1	2	3	4	5	6	7	8	9	10	Worst Possible Lack of Appetite
No Shortness of Breath	0	1	2	3	4	5	6	7	8	9	10	Worst Possible of Shortness of Breath
No Depression (Depression = feeling	0 sad)	1	2	3	4	5	6	7	8	9	10	Worst Possible Depression
No Anxiety (Anxiety = feeling ner	0 vous)	1	2	3	4	5	6	7	8	9	10	Worst Possible Anxiety
Best Wellbeing (Wellbeing = how you	0 ı feel	1 overa	2 all)	3	4	5	6	7	8	9	10	Worst Possible Wellbeing
No Itching	0	1	2	3	4	5	6	7	8	9	10	Worst Possible Itching
No Problem Sleeping	0	1	2	3	4	5	6	7	8	9	10	Worst Possible Problem Sleeping
No Other Problem (for ex	0 campl	1 le coi	2 nstipa	3 ition)	4	5	6	7	8	9	10	Worst Possible
Patient's Name			. Time	e)					-	F F H	atient amily (lealth (by (check one): caregiver care professional careg er-assisted

Pain descriptors

- Neuropathic:
 - Burning, tingling, stabbing, electric shocks

- Somatic/nociceptive:
 - Dull, achy, well localised
- Visceral:
 - Deep, squeezing, cramping, distending, vague, poor localisation

Pain frequency and duration

• Incident pain eg on dialysis

Pain on movement

• Pain at rest

Sleep disturbances

Functionality

- Mobilisation/ activity
- Activities
- Social interaction
- Family supports

• Expectations!

DASS-21

• Depression Anxiety Stress Scale- 21 questions

• Lower score better

• Not definitive but "consistent with"...

applied to you **over the past week**. There are no right or wrong answers. Do not spend too much time on any statement.

The rating scale is as follows:

- Did not apply to me at all
 Applied to me to some degree, or some of the time
 Applied to me to a considerable degree or a good part of time
 Applied to me very much or most of the time

1 (s)	I found it hard to wind down	0	1	2	3
2 (a)	I was aware of dryness of my mouth	0	1	2	3
3 (d)	I couldn't seem to experience any positive feeling at all	0	1	2	3
4 (a)	I experienced breathing difficulty (e.g. excessively rapid breathing, breathlessness in the absence of physical exertion)	0	1	2	3
5 (d)	I found it difficult to work up the initiative to do things	0	1	2	3
6 (s)	I tended to over-react to situations	0	1	2	3
7 (a)	I experienced trembling (e.g. in the hands)	0	1	2	3
8 (s)	I felt that I was using a lot of nervous energy	0	1	2	3
9 (a)	I was worried about situations in which I might panic and make a fool of myself	0	1	2	3
10 (d)	I felt that I had nothing to look forward to	0	1	2	3
11 (s)	I found myself getting agitated	0	1	2	3
12 (s)	I found it difficult to relax	0	1	2	3
13 (d)	I felt down-hearted and blue	0	1	2	3
14 (s)	I was intolerant of anything that kept me from getting on with what I was doing	0	1	2	3
15 (a)	I felt I was close to panic	0	1	2	3
16 (d)	I was unable to become enthusiastic about anything	0	1	2	3
17 (d)	I felt I wasn't worth much as a person	0	1	2	3
18 (s)	I felt that I was rather touchy	0	1	2	3
19 (a)	I was aware of the action of my heart in the absence of physical exertion (e.g. sense of heart rate increase, heart missing a beat)	0	1	2	3
20 (a)	I felt scared without any good reason	0	1	2	3
	I felt that life was meaningless	0	1	2	3

PSEQ: Pain self efficacy questionnaire

- 10 item questionnaire
- Confidence performing activities with pain
- Includes home chores, socialising, work

Functioning without medications

Lower score better

What next?

Multidisciplinary approach

Optimise

• Revascularise, improve, modify

General non-pharmacologic

- Improve activity
 - Pacing, stretches, aquarobics, hydrotherapy

- Improve strength
 - Strength and weight classes, walking

- Improve socialisation
 - Support groups, walk and talk groups

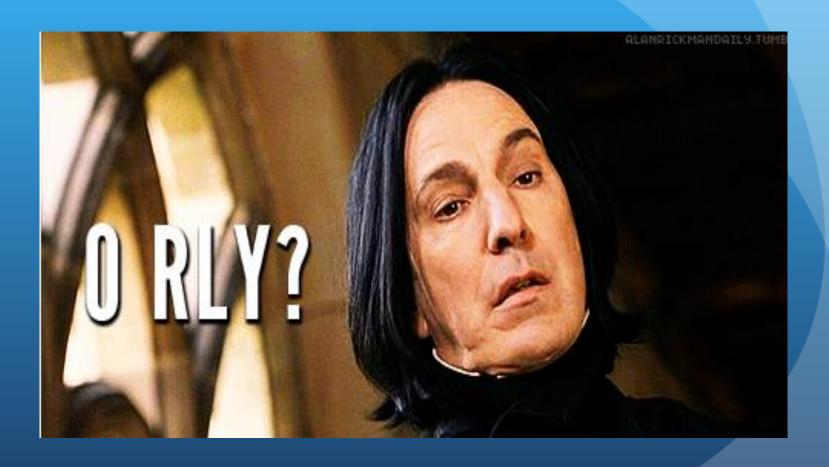
Psychological therapies

• Medications- antidepressants, antipsychotics

• Sleep hygiene

• CBT

Mindfulness



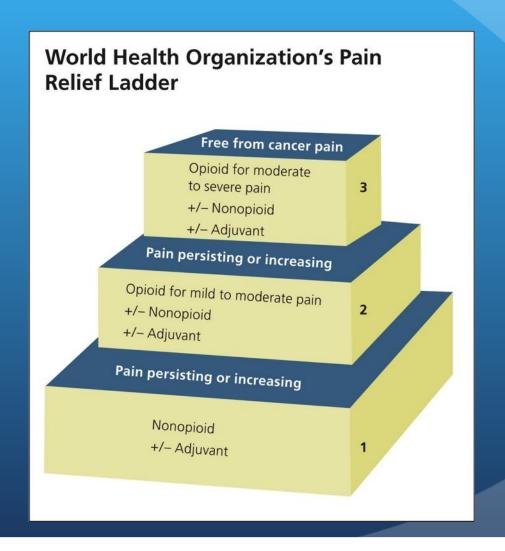
Case Profile: CT 67 female

- Post-Renal transplant
- Generalised pain
- Arrived clinic in wheelchair/crying
- Generalised anxiety disorder
- Prescribed minimal analgesics
- Prescribed psychology and psychiatry interventions
- Now walking freely, using walker for confidence in public
- Cracking jokes!
- Asked about reducing meds further

Let's talk meds......



Medications



Pharmacokinetics

- Percentage excreted in urine
- Active metabolites
- Dialysed?
 - Haemodialysis
 - Peritoneal dialysis
- Signs of toxicity

Preferred medications CKD 4+5

WHO Step	Recommended	Use with caution	Do not use
1	paracetamol		NSAIDS
2		tramadol	
3	HYDROmorphone Fentanyl Methadone Buprenorphone	oxycodone	Morphine Pethidine Propoxyphene
Adjuvants	Gabapentin pregabalin	TCAs	

Paracetamol

• First line analgesic for CKD patients

• <5% excreted via kidneys

• Extensively metabolised in liver



No dose modification recommended

NSAIDS

- Reduced GFR
- Hypertension/hyperkalaemia/Na water retention

• BUT



Tramadol

- 90% tramadol and metabolites renal excretion
 - 30%unchanged/60%metabolites

Lower doses used ~ 20% usual dose (100 bd max)

• Dialyzed (h, ?p)

• S/E: CNS depression/twitches/nausea

Morphine

• Active metabolites rapidly accumulate= do not use

• 10% excreted in urine

Can be dialyzed

• S/E sedation/confusion/myoclonus/respiratory depression

Oxycodone

- <10% excreted in urine
- Metabolised in liver
- Active metabolites but small percentage
- Dialyzed
- Case reports of toxicity BUT consensus is that it is safe to use if monitored

Methadone

- 15-16% excreted in urine
- Excreted in faeces
- Not dialyzed
- General considered safe
- Long variable half life (13-47 hours)
- Effective in neuropathic pain

Buprenorphine

- Metabolized by liver, minimal renal excretion
- Metabolites (bup-3-glucuronide and norbuprenorphine) are inactive and can accumulate
- Dialyzed
- Give in standard doses
- Said to have ceiling effect for respiratory depression
- Considered safe to give in CKD

HYDROmorphone

- 6% excreted in urine
- Metabolised in liver with active H3G conjugate which accumulates
- Active metabolite dialyzed
- Useful with careful monitoring
- S/E as with morphine: myoclonus/ sedation/ resp depression

HYDROmorphone or oxycodone??

- HYDROmorphone=5x morphine dose=3.5 oxycodone
 - le 10mg HYDROmorphone= 50mg morphine=35 oxycodone
- Similar metabolite profile

- Multiple formulations of HYDROmorphone
 - Jurnista slow release, Dilaudid immediate release



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- Know their side effects
- Know their dosages

Neuropathic Pain



TCA and duloxetine

- <2% excreted</p>
- Not dialyzed
- No dose modification BUT recommended start at lower doses due to anticholinergic side effects.

Gabapentin and Pregabalin

- 100% renal excretion
- Dialyzed
- Modify dose according to eGFR
- Dose post dialysis
- S/E neurotoxicity

