

A Summary of the Guideline for the Evidence-Informed Primary Care Management of **Low Back Pain**

This evidence-informed guideline is for non-specific, non-malignant low back pain in adults only

Red Flags help identify rare, but potentially serious conditions. They include:

- Features of Cauda Equina Syndrome including sudden onset of loss of bladder/bowel control, saddle anaesthesia (**emergency**)
- Severe worsening pain, especially at night or when lying down (**urgent**)
- Significant trauma (**urgent**)
- Weight loss, history of cancer, fever (**urgent**)
- Use of steroids or intravenous drugs (**urgent**)
- First episode of severe pain with patient over 50 years old, especially over 65 (**soon**)
- Widespread neurological signs (**soon**)

EMERGENCY - referral within hours

URGENT - referral within 24 - 48 hours

SOON - referral within weeks

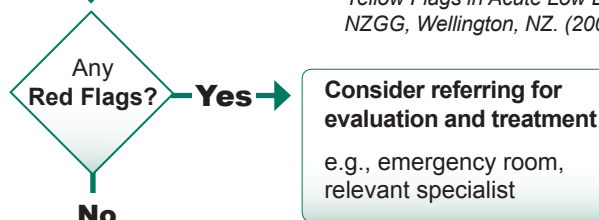
Conduct a full assessment

Including:

- history taking
- physical and neurological exam
- evaluation of **Red Flags**
- psychosocial risk factors/**Yellow Flags**

Yellow Flags indicate psychosocial barriers to recovery. They include:

- Belief that pain and activity are harmful
 - 'Sickness behaviours' (like extended rest)
 - Low or negative mood, social withdrawal
 - Treatment expectations that do not fit best practice
 - Problems with claim and compensation
 - History of back pain, time-off, other claims
 - Problems at work, poor job satisfaction
 - Heavy work, unsociable hours (shift work)
 - Overprotective family or lack of support
- Kendall et al. Guide to Assessing Psycho-social Yellow Flags in Acute Low Back Pain. ACC & NZGG, Wellington, NZ. (2004 Ed.).*



No

Acute and Subacute

(within 12 weeks of pain onset)

Chronic

(more than 12 weeks since pain onset)

- **Educate patient** that low back pain typically resolves within a few weeks (refer to Patient Information Sheet)
- **Prescribe self-care strategies** including alternating cold and heat, continuation of usual activities as tolerated
- **Encourage early return to work**
- **Recommend physical activity and/or exercise**
- **Consider analgesics** in this order:
 - Acetaminophen
 - NSAIDs (consider PPI)
 - Short course muscle relaxants
 - Short-acting opioids (rarely, for severe pain)

1-6 Weeks

Reassess (including Red Flags) if patient is not returning to normal function or symptoms are worsening

Consider Referral

- Physical therapist
- Chiropractor
- Osteopathic physician
- Physician specializing in musculoskeletal medicine
- Spinal surgeon (for unresolving radicular symptoms)
- Multidisciplinary pain program (if not returning to work)

- **Prescribe physical or therapeutic exercise**
- **Analgesics Options**
 - Acetaminophen
 - NSAIDs (consider PPI)
 - Low dose tricyclic antidepressants
 - Short term cyclobenzaprine for flare-ups
- **Referral Options**
 - Community-based active rehabilitation program
 - Community-based self management/cognitive behavioural therapy program
- **Additional Options**
 - Progressive muscle relaxation
 - Acupuncture
 - Massage therapy, TENS as adjunct to active therapy
 - Aqua therapy and yoga

Moderate to Severe Pain

- **Opioids** (for appropriate patients: refer to the Canadian National Opioid Guideline endorsed by the College of Physicians and Surgeons of Alberta) See bottom of p.2 for link
- **Referral Options**
 - Multidisciplinary chronic pain program
 - Epidural steroids (for short-term relief of radicular pain)
 - Prolotherapy, facet joint injections and surgery in carefully selected patients.

Low Back Pain

Key Messages

- Do a full clinical assessment; rule out red flags
- In the absence of red flags, reassure the patient there is no reason to suspect a serious cause
- Reinforce that pain typically resolves in a few weeks without intervention
- Encourage patient to keep active
- Consider evidence-based management as per the guideline
- Recommend physical activity and/or exercise to prevent recurrence
- If pain continues beyond 6 weeks, reassess and consider additional treatment and referrals
- The goal of chronic pain management is improved quality of life
- Encourage and support pain self-management
- Monitor patient for relative benefit versus side effects

Contraindications

Evidence indicates these actions are ineffective or harmful

- Lab tests and diagnostic imaging in the absence of red flags
- Prolonged bed rest
- Traction (including motorized)
- Therapeutic ultrasound for acute and subacute pain
- Oral and systemic steroids
- Epidural steroid injections in the absence of radicular pain
- TENS for acute pain
- Massage, prolotherapy and TENS as sole treatments for chronic pain

Medication Table

Pain Type	Medication	Dosage range	
Acute and sub-acute low back pain or flare-up of chronic low back/spinal pain	1st line Acetaminophen	Up to 1000 mg QID (max of 3000 mg/day)	
	2nd line NSAIDs (consider PPIs if >45 years of age)	Ibuprofen	Up to 800 mg TID (max of 800 mg QID)
		Diclofenac	Up to 50 mg TID
	Add: Cyclobenzaprine for prominent muscle spasm		10 to 30 mg/day; Greatest benefit seen within one week; therapy up to 2 weeks may be justified
	If prescribing controlled release opioids: add a short-acting opioid or increase controlled release opioid by 20 to 25%		See opioids below
Chronic low back/spinal pain	1st and 2nd lines	See acute pain, above	
	3rd line Tricyclics (TCAs)	Amitriptyline	10 to 100 mg HS
		Nortriptyline fewer adverse effects	
	3rd line Weak Opioids	Codeine	30 to 60 mg every 3 to 4 hours
		Controlled release codeine	50 to 100 mg Q8h, may also be given Q12h
	4th line Tramadol (<i>not currently covered by Alberta Blue Cross</i>)		Slow titration max 400mg/day. Note: Monitor total daily acetaminophen dose when using tramadol - acetaminophen combination
5th line Strong Opioids (controlled release)	Morphine sulfate	15 to 100 mg BID	
	Hydromorphone HCl	3 to 24 mg BID	
	Oxycodone HCl	10 to 40 mg BID -TID	
	Fentanyl patch	25 to 50 mcg/hr Q3 days	

TRICYCLICS AND OPIOIDS

- This guideline was written to provide primary healthcare providers and patients with guidance about appropriate prevention, assessment and intervention strategies
- It was developed by a multidisciplinary team of Alberta clinicians and researchers
- This guideline is for adults 18 years of age or older with low back pain and is not applicable to pregnant women
- It is recognized that not all recommended treatment options are available in all communities
- See Canadian Guideline for Safe and Effective Use of Opioids for Chronic Non-Cancer Pain, available at: <http://nationalpaincentre.mcmaster.ca/opioid/>
- For further details on the recommendations, see the guideline and background document