

# CLASS Persistent pain

## Professional development goals

This CLASStime article supports professional development with respect to:

- ▶ Understanding different types of pain
- ▶ Recognising the role of central sensitisation in the development and maintenance of persistent pain
- ▶ Summarising treatment options for persistent pain

As you read, highlight new knowledge or areas where you need to know more. You can also use the Capture button online to keep notes of your thoughts and reflections on this article. This may be useful if you choose to proceed to CLASSact and CLASSmates for this topic.

Completing this CLASStime activity may allow you to fulfil some or all of the following elements of your annual recertification requirements:

- ▶ Keeping up to date
- ▶ Reflection on practice
- ▶ Towards culturally safe practice

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Persistent pain affects physical, mental, social and spiritual wellbeing, and is one of the most prevalent long-term conditions in New Zealand. In this article, **Vanessa Brown** discusses persistent pain, including its causes, symptoms and treatments. She also explores the concept of central sensitisation and its role in persistent pain

## ▶ CLASStime

**Pain by any other name is still pain! As with so many other things in health, chronic pain has had a name change, and in 2020, the International Association for the Study of Pain (IASP) updated the definition to reflect changes in evidence and understanding. Chronic pain is now referred to as persistent pain, and we know this is a global crisis. We are all exposed to patients with persistent pain in our roles as pharmacists, so I do not need to tell you this condition is exceedingly difficult to manage and very time consuming.**

Just under 800,000 New Zealanders were living with persistent pain in 2016, and this is expected to increase to 1.3 million by 2048 as the population ages. The current cost of persistent pain to society is higher than that of diabetes and heart disease, and this is predicted to rise to \$24 billion by 2048.<sup>1</sup> This includes burden of disease costs, indirect costs, and direct costs to Te Whatu Ora – GP appointments, emergency department visits, hospital admissions and bed days, as well as imaging studies, medications and diagnostics relating to pain.

Add to this the issues that pain is disproportionately more prevalent in Māori, Pacific and women, and is also an independent driver of poverty, and we start to understand the magnitude of the issue.

New Zealand data have shown that Pacific and Asian patients are less likely to attend “chronic pain” services than Europeans, while Māori, Pacific peoples and, to a lesser extent, people of Asian descent present to these services with a higher impact of pain.<sup>2</sup>

## Key points

- ▶ It is important to understand the difference between acute, persistent and cancer pain, and the role medications play in each condition.
- ▶ Understanding how medications work to help with neuropathic pain and central sensitisation, and the adverse effects expected, are key to managing these conditions appropriately.
- ▶ Persistent pain needs a holistic approach, and the evidence for medications is third line; even then, a 50 per cent reduction in pain score is the best we can hope for.
- ▶ Focus needs to be on quality of life rather than pain score.

In addition, there are inequities in the efficacy of treatment, with Māori, Asian and Pacific peoples experiencing poorer outcomes at discharge and/or follow-up than Europeans. These findings are more prominent for outcomes relating to mental health and pain beliefs, rather than pain and physical function.<sup>3</sup>

These studies highlight that “different cultures have different beliefs and frameworks for experiencing, interpreting and managing pain, some of which may clash with the biopsychosocial framework currently implemented by pain management clinics”.<sup>3</sup>

For example, whānau/family and spirituality are integral components of health for Māori, Pacific peoples and a number of Asian cultures. Cultural influences may also make Māori, Pacific and Asian peoples less likely to reveal their pain to others. All this affects the decision to seek treatment and who to seek treatment from.<sup>2,3</sup>

In addition, barriers to healthcare are well known for Māori and Pacific peoples in New Zealand, including language and communication, financial cost and transport. There is also the possibility that unconscious bias, stereotyping or a lack of understanding of different cultural views surrounding pain may limit referral for further treatment.<sup>2,3</sup>

We all know persistent pain is hard to treat. These are complex people with complex needs. Over 75 per cent of patients also have mental health issues or complex medical comorbidities, and a traditional biomedical approach does not work – an innovative and interdisciplinary approach is required.

## What is persistent pain?

Pain is a universal experience that is essential for survival. It is defined as an unpleasant sensory and emotional experience associated with actual or potential tissue damage. As mentioned, the IASP updated its definition of pain in 2020. The new definition (see panel on last page) emphasises that pain is a subjective experience influenced by biological, psychological and social factors.<sup>4</sup>

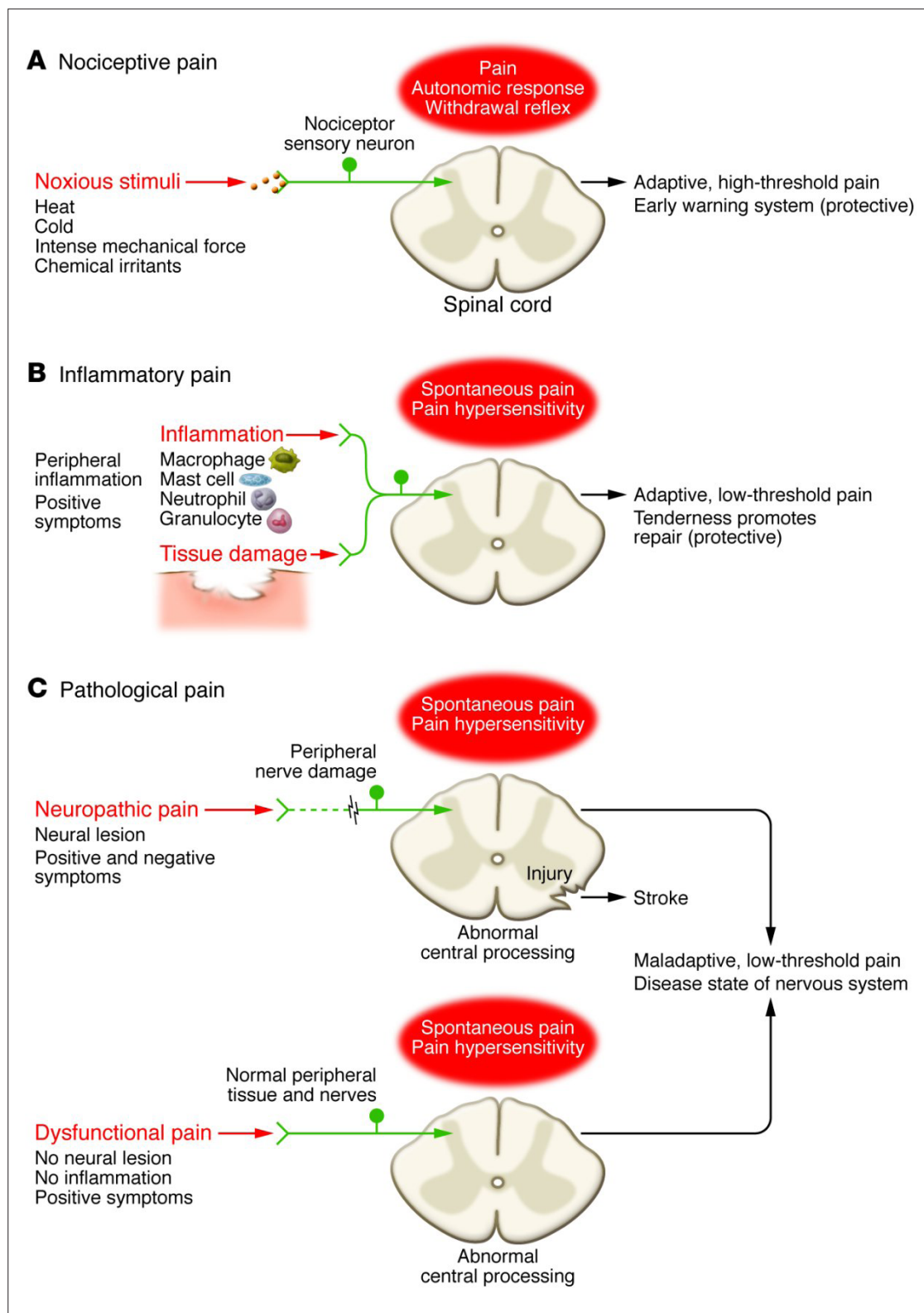
Persistent pain is defined as pain that lasts beyond the expected time for tissue healing, or pain that is associated with a chronic medical condition. It can be characterised by a range of sensations, including throbbing, aching, burning, shooting or stabbing. Persistent pain can also have a significant impact on a person’s quality of life, affecting their physical, emotional and social wellbeing.

Persistent pain is a complex condition that involves multiple factors, including biological, psychological and social factors. It can be caused by changes in the nervous system that lead to a state of hyperexcitability, known as central sensitisation. Central sensitisation is a process in which the central nervous system becomes more sensitive to pain signals, leading to an amplification of pain perception. It is an important concept in the understanding of persistent pain and is covered in more detail later in this article.

### Causes of persistent pain

Persistent pain can be caused by a variety of factors, including injury, illness and disease. Common causes of persistent pain include:

- ▶ injuries, such as sprains, strains and fractures – the pain may be caused by damage to the tissues, nerves or bones
- ▶ surgery, especially if the surgery involves the nerves or spinal cord
- ▶ chronic medical conditions, such as arthritis, fibromyalgia and cancer
- ▶ some infections, such as shingles
- ▶ psychological factors, such as stress and anxiety, can also contribute to persistent pain.



▲ FIGURE 1. Pain can be broadly divided into four categories: (A) nociceptive pain represents the sensation associated with the detection of potentially tissue-damaging noxious stimuli and is protective; (B) inflammatory pain is associated with tissue damage and the infiltration of immune cells and can promote repair by causing pain hypersensitivity until healing occurs; (C) pathological pain is a disease state caused by damage to the nervous system (neuropathic pain) or by its abnormal function (dysfunctional or nociplastic pain)

### Symptoms of persistent pain

The symptoms of persistent pain can vary depending on the cause and location of the pain. Common symptoms include pain that:

- ▶ lasts beyond the expected time for tissue healing
- ▶ is severe or debilitating
- ▶ is localised or widespread
- ▶ is accompanied by other symptoms, such as numbness, tingling or weakness
- ▶ is aggravated by movement or activity
- ▶ is associated with changes in mood or behaviour, such as depression or anxiety
- ▶ interferes with daily activities, such as work or socialising.

## Changes in understanding of pain

As an undergraduate, my total understanding of pain revolved around the WHO three-step analgesic ladder for adult cancer pain, which is a fabulous tool for what it is (see Figure A1.1 in Annex 1 of the *WHO Guidelines for the Pharmacological and Radiotherapeutic Management of Cancer Pain in Adults and Adolescents*; [tinyurl.com/WHO3step](https://tinyurl.com/WHO3step)).<sup>5</sup> However, this ladder is not appropriate for treating adult non-cancer pain.

In 2010, neurobiologist Clifford Woolf published new evidence which changed the way we think about pain and, hence, how we treat it. We now know that there are four main categories of pain (Figure 1).<sup>6</sup> **Nociceptive pain** – the “common” pain experience, where a noxious stimulus (heat, ➡

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cold, intense force, etc) stimulates the nociceptor sensory neuron. We are immediately aware of the pain and withdraw from the stimulus. This is a protective response to high-threshold pain.

**Inflammatory pain** – as the name suggests, this is caused by activation of the inflammatory response due to tissue damage or infection. This is more likely to be low-threshold pain, and the tenderness promotes repair within the tissues.

Pathological pain is not protective and is separated into two classes:

**Neuropathic pain** – this is a result of nerve damage and causes abnormal central processing within the nervous system, which causes altered sensations.

**Nociplastic pain** – initially classified as dysfunctional pain, nociplastic pain is the most common type of pain that patients present with at the “chronic pain” clinic.

The IASP has defined nociplastic pain as: “Pain that arises from altered nociception despite no clear evidence of actual or threatened tissue damage causing the activation of peripheral nociceptors, or evidence for disease, or lesion of the somatosensory system causing the pain.”<sup>4</sup>

So, despite our best efforts to find a cause through blood work and imaging, all appears “normal” from a biomedical perspective, yet the patient has significant and persistent pain.

## Treatment

Treating persistent pain is a complex situation, where we must balance pain, quality of life, comorbidities, medication doses, interactions and medication side effects.

Medications should be considered third-line treatment for persistent pain, following physical activity and counselling/psychology support. The gold standard for treating persistent pain is a 50 per cent reduction in pain score; however, many guidelines are written with evidence for treatments that have only managed to achieve a 30 per cent reduction. The focus is more on quality of life, and pain score is only one area that is assessed.

As persistent pain requires a holistic approach, we use the electronic Persistent Pain Outcomes Collaboration (ePPOC) assessment process in New Zealand – ePPOC is an independent platform developed and maintained by the University of Wollongong in Sydney (uow.edu.au/ahsri/eppoc). All 72 pain management providers in Australasia use ePPOC as their data capture platform, which enables outcomes to be benchmarked against other services.

This assessment involves:

- ▶ demographic information
- ▶ general health conditions
- ▶ health service utilisation
- ▶ medication
- ▶ a brief pain inventory
- ▶ the 21-item Depression, Anxiety and Stress Scale (DASS21)
- ▶ a pain self-efficacy questionnaire
- ▶ a pain catastrophising scale.

Figure 2 shows ePPOC results for a patient before and after involvement in a pain clinic.

### Pharmacotherapy

It is important to appreciate the limited role medications play and, if possible, select an agent that may cover multiple symptoms to reduce medication burden and lower the risk of adverse effects.

As you can see from the pain descriptions above, **nociceptive pain** is normally acute and can be managed with short-term options such as paracetamol or opioids. NSAIDs are indicated for acute injury or longer-term inflammatory conditions, such as arthritis. However, often these agents are contraindicated due to renal function, cardiovascu-

lar risk or concurrent long-term medications, such as anticoagulants.

For long-term conditions where inflammation is confirmed (**inflammatory pain**), steroid injections can be useful – directly into the joint or area affected. These injections can also be used to help with the differential diagnosis of an underlying inflammatory response or nociplastic pain.

**Neuropathic pain** is treated with agents that target the central nervous system, so commonly antidepressants or antiseizure medications (Table 1). The most commonly used agents in New Zealand are amitriptyline, nortriptyline, gabapentin, pregabalin and venlafaxine, with some second-line evidence for capsaicin cream, and third-line evidence for medicinal cannabis products (covered later).

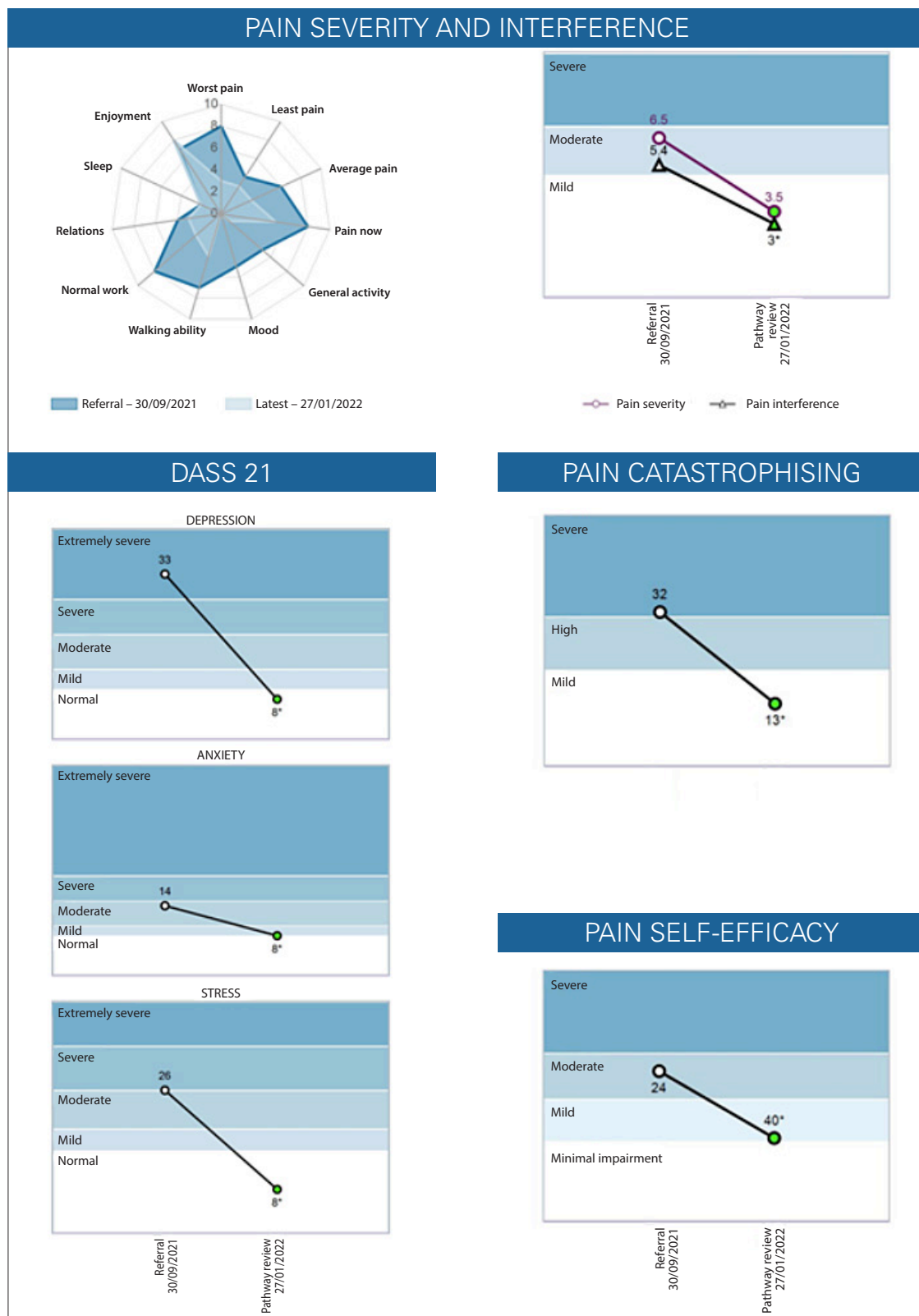
Paracetamol, NSAIDs, capsaicin, opioids and cannabinoids work by inhibiting ascending pain transmission from the nociceptor sensory neuron to the somatosensory cortex, while antidepressants,

antiseizure medications and cannabinoids facilitate descending pain modulation.

Table 2 (over page) shows some of the comorbidities that may be considered when selecting drugs for the treatment of neuropathic pain. In addition to comorbidities, the choice among treatments should be individualised based on the pain aetiology (if known), the patient’s age, concurrent medications, medication side-effect profile, cost, and patient preference regarding dosing frequency.

**Nociplastic pain** is by far the most complex to treat as there are no known stimuli, an inflammatory component has been ruled out, and there is no evidence of nerve damage. Despite that, the patient has persistent pain which affects their quality of life.

One area of evidence which helps explain this process is the concept of central sensitisation (see below). The Central Sensitisation Inventory (CSI; [ti-nurl.com/CSIworksheets](http://ti-nurl.com/CSIworksheets)) is a useful diagnostic tool to identify whether the patient is experiencing cen-



▲ FIGURE 2. ePPOC results for a patient before and after involvement in a pain clinic



RECOMMENDED PHARMACOTHERAPY FOR TREATMENT OF NEUROPATHIC PAIN

TABLE 1

DRUG	EFFECTIVE DOSE	COMMENTS
<b>FIRST-LINE THERAPY</b>		
<b>Antiseizure medications</b>		
Gabapentin (NNT 3.9)	IR: 300–1200mg orally 3 times daily ER: 600–1800mg orally twice daily (not available in New Zealand)	<ul style="list-style-type: none"> <li>• Can cause dizziness and sedation; minimise this with slow titration</li> <li>• Use lower doses for older patients</li> <li>• Avoid concomitant use with opioids; can cause respiratory depression</li> </ul>
Pregabalin (NNT 4.4)	150–300mg orally twice daily	<ul style="list-style-type: none"> <li>• Initiate treatment at low dose (typically 150mg orally at night)</li> </ul>
<b>Antidepressants – serotonin-norepinephrine reuptake inhibitors (SNRIs)</b>		
Duloxetine (NNT 6)	IR: 60–120mg orally once daily	<ul style="list-style-type: none"> <li>• Not funded in New Zealand</li> </ul>
Venlafaxine (NNT 6)	ER: 75–225mg orally once daily	
<b>Tricyclic antidepressants (TCAs)</b>		
Amitriptyline (NNT 2.5)	25–125mg orally once daily	<ul style="list-style-type: none"> <li>• The most sedating TCA</li> </ul>
Nortriptyline (NNT 2.5)	25–75mg orally once daily	<ul style="list-style-type: none"> <li>• Preferred among TCAs due to less sedation and fewer anticholinergic effects</li> </ul>
<b>SECOND-LINE THERAPY</b>		
Tramadol	IR: 100–200mg orally 3 times daily SR: 100–200mg orally twice daily	
<b>THIRD-LINE THERAPY</b>		
Botulinum toxin A	50–200 units subcutaneously to painful area every 3 months	<ul style="list-style-type: none"> <li>• Specialist use, for peripheral pain</li> </ul>
Strong opioids (NNT varies depending on the medication and type of neuropathic pain)	Individual titration	<ul style="list-style-type: none"> <li>• Not routinely used for persistent pain, but methadone is the preferred opioid for persistent pain</li> <li>• Use only at lowest effective dose, after risk assessment, and with ongoing assessment of risks and benefits</li> <li>• Use in combination with non-pharmacologic and non-opioid pharmacologic therapy</li> </ul>

ER, extended release; IR, immediate release; NNT, number needed to treat; SR, sustained release.

It is important to note that effectiveness of these medications can vary depending on the individual and the specific type of neuropathic pain being treated. In addition, all these medications have potential side effects and risks and should only be used under the guidance of a healthcare professional

tral sensitisation and to what extent.<sup>7</sup> This is quite often a “lightbulb” moment in the consultation, when the patient feels validated. For many, this is the first time they realise it is not “all in their head”.

Opioids often make central sensitisation worse and can increase the level of central sensitisation more rapidly. The sooner appropriate treatment with antidepressants/antiseizure medications is started, the faster central sensitisation improves.

Table 3 (over page) helps summarise which pharmacological treatment we should consider for each type of pain. The goal is always to use the lowest possible dose for the shortest period of time. However, in persistent pain, the need for medications is often long-term and, in some cases, lifelong. So, it is important to know the different side-effect profiles of the medications (Table 4, over page). As for all treatment options, we must balance the risks and benefits. Agents that commonly cause daytime sedation, weight gain, sexual dysfunction and anti-

cholinergic effects can contribute significantly to a poor quality of life.

Note that patients can have a mixture of different types of pain (eg, nociceptive and nociplastic pain), which is when different pharmacological agents are indicated in combination (eg, NSAID and antidepressant/gabapentinoid).

## Central sensitisation

Central sensitisation is a process in which the central nervous system becomes more sensitive to pain signals, leading to an amplification of pain perception. This process can play a significant role in the development and maintenance of persistent pain.

Central sensitisation can be due to a combination of long-term pain and other stresses or can start from an injury or illness. It normally develops after having

pain for more than 12 months.

In central sensitisation, the threshold for activation of pain fibres is lowered, and the amplification of pain signals occurs in the central nervous system. This results in an increase in pain sensitivity and a decrease in pain tolerance. The mechanisms underlying central sensitisation are complex and involve changes in the structure and function of the nervous system.

One of the primary mechanisms involved in central sensitisation is the release of excitatory neurotransmitters, such as glutamate and substance P, in the spinal cord and brain. These neurotransmitters activate pain pathways and cause the amplification of pain signals. Additionally, the release of inflammatory mediators, such as cytokines, can contribute to central sensitisation.

Central sensitisation can also result in changes in the way the brain processes sensory information, leading to altered perceptions of pain.

For example, in individuals with persistent ➤

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pain, the brain's pain processing centres may become more active, resulting in a heightened perception of pain. Additionally, central sensitisation can lead to the development of allodynia and hyperalgesia:

- ▶ Allodynia is a condition in which non-painful stimuli, such as light touch or a gentle breeze, can trigger pain.
- ▶ Hyperalgesia is a condition in which the sensitivity to pain is increased, and the threshold for pain is lowered.

Central sensitisation can also contribute to the development of comorbid conditions, such as depression and anxiety. The emotional distress caused by persistent pain can activate the stress response, leading to the release of stress hormones, such as cortisol. These hormones can further sensitise the nervous system and contribute to the development of central sensitisation.

Treatment for central sensitisation typically involves addressing the underlying cause of the persistent pain and targeting the mechanisms involved in central sensitisation. This may include medications that target the release of excitatory neurotransmitters, such as N-methyl-D-aspartate (NMDA) receptor antagonists. Additionally, non-pharmacological interventions, such as cognitive behavioural therapy, may be helpful in reducing the emotional distress associated with persistent pain and decreasing the impact of central sensitisation.

Completing the CSI during the initial triage and again 12 months later can be extremely useful to monitor the outcomes for that individual.

## Cannabis-based medicines

The 2018 "Simplified guideline for prescribing medicinal cannabinoids in primary care" addressed cannabinoid use in neuropathic pain, recommending against medicinal cannabinoids as first-line or second-line therapy, owing to limited benefits and high risk of harms.<sup>8</sup> Although our evidence base for this is still from recreational products and synthetic cannabinoids, the risk of harm in medicinal products is actually very low.

The guideline suggests clinicians could consider medicinal cannabinoids for refractory neuropathic pain with multiple considerations, including a reasonable therapeutic trial of three or more prescribed analgesics first.

It was noted that when including all types of neuropathic pain, cannabinoids provide meaningful ( $\geq 30$  per cent pain reduction) relief in chronic neuropathic pain for about 39 to 40 per cent of participants.

In practice, I have used medicinal cannabis products as a third-line or fourth-line option in hundreds of patients since it was legalised in New Zealand in

RELEVANT COMORBIDITIES WHEN SELECTING DRUGS FOR NEUROPATHIC PAIN

TABLE 2

DRUG CLASS	COMORBIDITIES FAVOURING USE	COMORBIDITIES FAVOURING AVOIDANCE
Gabapentinoid antiseizure medications: • Gabapentin • Pregabalin	• Restless legs syndrome • Essential tremor • Insomnia	• Substance abuse • Peripheral oedema • Severe renal disease
Serotonin-norepinephrine reuptake inhibitors: • Duloxetine • Venlafaxine	• Depression • Anxiety	• Restless legs syndrome • Sexual dysfunction (for venlafaxine) • Angle-closure glaucoma • Severe hepatic or renal disease
Tricyclic antidepressants: • Amitriptyline • Nortriptyline	• Depression • Anxiety • Insomnia (particularly for amitriptyline)	• Cardiac disease • Prolonged QTc interval • Orthostatic hypotension • Sexual dysfunction • Urinary retention • Angle-closure glaucoma

SUMMARY OF PHARMACOLOGICAL TREATMENT BASED ON TYPE OF PAIN

TABLE 3

TYPE OF PAIN	FIRST-LINE THERAPY	CONSIDERATIONS FOR OPIOID USE
Nociceptive	NSAIDs	When other treatment options are inadequate, for pain severe enough to require potentially daily, round-the-clock, long-term treatment
Neuropathic	Antidepressants (SNRIs or TCAs) or Antiseizure medications	Limit dose and duration whenever possible  Encourage as-needed use linked to meeting specific activity goals
Central sensitisation	Antidepressants (SNRIs or TCAs) or Antiseizure medications	Avoid whenever other multidisciplinary treatment options have not been systematically, sufficiently and consistently trialled  Opioids often worsen central sensitisation treatment outcomes

2017. I have seen benefit from using full-spectrum cannabidiol (CBD) oil and full-spectrum tetrahydrocannabinol (THC) oil in combination. Cost is the biggest barrier to this treatment option, with the "average dose" combination costing approximately \$260–300 per month.

I prefer to use the two products separately to individualise the dose for each patient. Full-spectrum CBD oil appears to help with sleep, mood, anxiety, gastrointestinal issues, muscle spasms and quality of life. Generally, this needs to be combined with a small dose of full-spectrum THC oil to improve pain and central sensitisation.

## How can we help?

Initially, the most important role as a pharmacist is to understand the different types of pain and what medications are indicated, what the therapeutic dose range is and how long it is expected to take to notice a therapeutic benefit.

When a patient with acute pain is still struggling with symptoms six months later, discuss the concept of a pain clinic referral, as dealing with these symptoms at six to 12 months is much easier than five to 10 years after pain started.

SIDE EFFECTS OF ANTISEIZURE MEDICATIONS AND ANTIDEPRESSANTS

TABLE 4

DRUG	ANTICHOLINERGIC	DROWSINESS	INSOMNIA/AGITATION	ORTHOSTATIC HYPOTENSION	QTc PROLONGATION	GASTROINTESTINAL TOXICITY	WEIGHT GAIN	SEXUAL DYSFUNCTION
<b>Gabapentinoids</b>								
Gabapentin	2+	3+	*3–4+	1+	0	1+	2+	4+
Pregabalin	3+	3+	*3–4+	1+	0	1+	3+	3+
<b>Serotonin-norepinephrine reuptake inhibitors</b>								
Duloxetine	0	0	1+	0	0	2+	0–1+	1+
Venlafaxine	0	1+	1+	0	1–2+	2+	0–1+	3+
<b>Tricyclic and tetracyclic antidepressants</b>								
Amitriptyline	4+	4+	0	3+	1–2+	1+	4+	3–4+
Nortriptyline	2+	2+	0	1+	1–2+	0	1+	ND

Scale: 0 = none; 1+ = slight; 2+ = low; 3+ = moderate; 4+ = high; ND = not determined due to inadequate data. \*More agitation than insomnia

Pharmacists play a key role in supporting both patients and prescribers in up-titrating medications, counselling about time to effect and adverse effects, as well as managing combinations of medications. It is also important to understand the need to review medications regularly and to wean/discontinue medications that have not shown a benefit after a reasonable time at a therapeutic dose.

The pharmacist role as part of the pain team mostly consists of deprescribing medications, explaining how different medications work for different types of pain, and building a rapport with the patient so they feel comfortable to ask questions. This is particularly important for people from ethnic groups where communication barriers may exist.

Cultural safety is important and incorporating traditional medical practices into pain management should be considered when they are concordant with evidence-based guidelines. A key component of persistent pain management is patient education – this could highlight aspects of management that align with cultural practices or beliefs, as well as identify those that are contradictory. The support of whānau/family or other health advocates can also be proactively recommended.<sup>2,3</sup>

As we continue to struggle with inequity and access issues, many patients will present at a pharmacy for help before they present at a doctor, and some will self-medicate with general-sale analgesia for months or years before ever seeing a health professional. This poses a huge risk and contributes to our growing inequity issues and emergency department presentation rates. Knowing the funding streams and how these patients can receive better and more affordable access to services is key.

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## IASP 2020 pain definition update

**“An unpleasant sensory and emotional experience associated with, or resembling that associated with, actual or potential tissue damage.”**

**Six additional notes:**

- ▶ Pain is always a personal experience that is influenced to varying degrees by biological, psychological and social factors.
- ▶ Pain and nociception are different phenomena; pain cannot be inferred solely from activity in sensory neurons.
- ▶ Through their life experiences, individuals learn the concept of pain.
- ▶ A person’s report of an experience as pain should be respected.
- ▶ Although pain usually serves an adaptive role, it may have adverse effects on function and social and psychological wellbeing.
- ▶ Verbal description is only one of several behaviours used to express pain; inability to communicate does not negate the possibility that a human (or non-human animal) experiences pain.

([iasp-pain.org/resources/terminology](http://iasp-pain.org/resources/terminology))

▶ References for this article are available at [pharmacytoday.co.nz](http://pharmacytoday.co.nz) under CLASS

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