

Chronic pain after surgery: how common is it?

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Pain is an **expected outcome** of surgery. Some pain is inevitable after any surgical procedure. However, some people experience more pain than expected and for a longer duration. Acute pain is a predictable, physiological response to tissue damage.

Pain after surgery is considered to be chronic if it lasts for **longer than three months**. In some cases, however, patients undergoing common surgical procedures report of persistent or intermittent pain of varying severity at one year postoperatively. Here, [pain management specialist](#) Dr Sarah Aturia explains more.



How is chronic post-surgical pain (CPSP) defined?

A working definition of chronic postsurgical pain (CPSP) was proposed by Macrae and subsequently refined by Werner as:

- Pain persisting at least three months after surgery.
- Pain not present before surgery or that has different characteristics or **increased intensity** from preoperative pain.
- Pain is localised to the **surgical site** or a referred area.
- Other possible causes of the pain are excluded.

How common is Chronic Post-Surgical Pain?

The incidence in major operations is quoted as 10% to 50% and severe in 2 -10%. In addition to the type of surgery, **risk factors** include having pre-operative pain, psychological factors, demographics (e.g. female gender and younger age), surgical factors (e.g. open approach and length >3 hours), and the intensity of pain in the immediate postoperative period (i.e. first few days). The identification of high-risk individuals is important because focused interventions may be beneficial to these patient populations.

How is CPSP diagnosed?

Patients first presenting with CPSP should undergo a thorough **clinical assessment** to confirm the suspected diagnosis and identify underlying mechanisms of pain. It is common, as tissue and a degree of nerve damage are unavoidable in any surgical procedure. CPSP can be expressed as a combination of different clinical types of pain, such as neuropathic, nociceptive, visceral and referred.

[Nociceptive pain](#) is from tissues. Neuropathic pain originates from nerves and is described as **stabbing pain**, **skin irritation** and sensitivity, **numbness**, tenderness, tightness and pulling sensations. Visceral comes from the internal organs. Referred pain, where pain from one part of the body is felt in a different location, is another type of pain which might be encountered.

In addition, the typical comorbidities of chronic pain often develop, such as **sleeping and mood disorders**. As is the case with other chronic pain syndromes, CPSP, once entrenched, maybe multifaceted and challenging to reverse.

How is CPSP treated?

Early postoperative follow-up and management are recommended for patients presenting with the first signs of new or recurrent pain. A targeted multidisciplinary approach to CPSP management is driven by the underlying mechanisms and the comorbidity of the pain and includes:

- With the upper or lower limbs, it is vital to concentrate on **maintaining mobility** and function by performing a regular regime of **exercise**.
- Topical application of Lidocaine creams and patches.
- Capsaicin cream and Qutenza (capsaicin patch 8%). The latter can only be used in a pain clinic for the management of neuropathic pain. The patch performs the function of delivering a high dose of capsaicin through the skin to the nerves targeted.
- Medications for neuropathic pain like **antidepressants** and antiepileptic drugs.
- **Strong opioids** and Tapentadol, which should only be prescribed with great caution and under supervision after evaluation of the risk-benefit ratio and discontinuation criteria.
- Appropriate interventional approaches such as scar injections, nerve blocks, pulsed radiofrequency techniques and other neuromodulation and stimulation techniques.
- Physical therapies, patient education and supported self-management and psychologically-based interventions, such as cognitive behavioural therapy (CBT), multidisciplinary pain program and vocational counselling.

To minimise progression to a chronic state, early intervention and referral to a multidisciplinary pain clinic are advisable.

Dr Aturia specialises in the management of low back pain, neck pain, chronic post-surgical pain and whiplash. You can book an appointment with her now via her Top Doctor's profile [here](#).

REFERENCES

Macrae WA. Br J Anaesth 2008;101:77–86,
Werner MU, Br J Anaesth
A. Althaus, Eur J Pain 16 (2012) 901–910
Kehlet H. Lancet 2006;367(9522):1618–25.
J Bruce. Rev Pain. 2011 Sep; 5(3): 23–29.
IASP fact sheets/support messages 2017
<https://fpm.ac.uk/opioids-aware>