Chronic Pain in Australia

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Chronic pain is common in Australia. One in 5 Australians aged 45 and over are living with persistent, ongoing pain. This pain can be disabling and stressful, making it hard for a person to work and do the things they enjoy. More people are seeing their general practitioner (GP) for chronic pain. In 2018, chronic pain cost an estimated $139 billion in Australia, mostly through reduced quality of life and productivity losses.

This report provides insight into the experience of Australians managing chronic pain. It explores the latest national data on the proportion of people with chronic pain, as well as its impact, treatment and management.

What is chronic pain?

Chronic pain is pain that lasts beyond normal healing time after injury or illness—generally 3 to 6 months. It is a common and complex condition, and the pain experienced can be anything from mild to severe. The defining characteristic of chronic pain is that it is ongoing and experienced on most days of the week. Chronic pain can result from injury, surgery, musculoskeletal conditions such as arthritis, or other medical conditions such as cancer, endometriosis or migraines. In some cases, there may be no apparent physical cause (Treede et al. 2015; Painaustralia 2019a).

Pain that is acute, or short-term, is a response to damaged tissue and usually disappears once the tissue has healed. Chronic pain is more complex, and may result from damage to body tissue from an acute or chronic condition, or changes in the nerves or nervous system that result in the nerves continuing to signal pain after the original condition has healed (Painaustralia 2019a).

Chronic pain can affect a person’s use of health care and ability to work, exercise and socialise (Hadi et al. 2018; Duenas et al. 2016). People with chronic pain are more likely than those without chronic pain to experience mental health conditions, including depression, anxiety, sleep disturbance and fatigue (Painaustralia 2019a).
How do we measure chronic pain in Australia?

Measuring how many people have chronic pain in Australia is difficult (Painaustralia 2019b). Pain is a subjective experience, and the few national data sources that include measures of chronic pain use different definitions.

This report analyses results from the Survey of Health Care (SHC) 2016. The survey was funded by the Australian Institute of Health and Welfare and conducted by the Australian Bureau of Statistics. The SHC asked participants whether they had moderate or severe pain lasting longer than 6 months. The SHC participants are aged 45 and over, therefore the analysis in this report focuses on this age group.

For more information on this survey, see ‘About the data’ on page 12.

How many Australians have chronic pain?

In 2016, almost 1 in 5 (19%, or 1.6 million) Australians aged 45 and over reported having chronic pain (ABS 2017) (Figure 1). Chronic pain increased with increasing age, to almost 1 in 4 adults (24%) aged 85 and over. This may be because older people often experience medical conditions associated with pain, such as musculoskeletal conditions. Attitudes towards pain and biological changes in the perception of pain may also influence the experience of pain in older adults (Molton & Terrill 2014).

Chronic pain was 1.8 times as high for women aged 85 and over (28%) as women aged 45–54 (16%). Among men, chronic pain was 1.3 times as high in those aged 85 and over (18%) as in those aged 45–54 (13%) (Figure 1). Overall, women had higher rates of chronic pain (21%) than men (17%). According to a different data source, the ABS Survey of Disability, Ageing and Carers, chronic pain rates in adults aged 45 and over remained stable between 2003 and 2015 for both males (20%) and females (25–26%) (ABS 2005, 2012, 2014, 2016).

Figure 1: Moderate or severe pain lasting longer than 6 months in people aged 45 and over, 2016

What are the behavioural risk factors for chronic pain?

Several factors increase the likelihood of developing chronic pain, including being female, increasing age, genetic predisposition and environmental influences, such as socioeconomic disadvantage (Blyth et al. 2001; Diatchenko et al. 2013). Many behavioural risk factors have also been linked to chronic pain, including physical inactivity, smoking, and being overweight or obese.

**Physical activity**

Sedentary behaviours and low levels of physical activity are associated with chronic pain (Nielen & Plaghki 2001). Regular physical activity may also reduce pain severity and increase the ability to perform the tasks required for daily living and recreation in those with chronic pain (Geneen et al. 2017).

**Smoking**

People who smoke are more likely to have chronic pain conditions such as fibromyalgia, back pain and headaches (Orhurhu et al. 2015). In 2016, smokers and ex-smokers were more likely to self-report chronic pain (15% and 13%, respectively) than people who had never smoked (8.2%) (AIHW 2017).

**Weight**

Being overweight or obese is a risk factor for developing chronic pain (Okifuji & Hare 2015). A higher body mass index is associated with greater joint and back pain due to the increased pressure on these areas. Obesity is also linked to other pain conditions, including fibromyalgia, headaches and abdominal pain (Wright et al. 2010).

People with chronic pain have higher rates of long-term conditions

Several long-term health conditions are associated with chronic pain. Musculoskeletal conditions (for example, arthritis and back pain), cardiovascular diseases, diabetes, asthma, stroke, and bowel disease may be associated with increased risk of experiencing chronic pain (Butchart et al. 2009; Dominick et al. 2012).

There may also be a two-way relationship between chronic pain and mental health disorders. Many people with chronic pain report psychological distress (Lerman et al. 2015), and psychological symptoms may be associated with increased risk of chronic pain (Gerrits et al. 2015).

Compared with people without chronic pain, those with chronic pain were 2.6 times as likely to have arthritis, 2.5 times as likely to have mental health problems, 2.5 times as likely to have osteoporosis and 2.4 times as likely to have other long-term health conditions, or a long-term injury (Figure 2).

The survey did not explore whether the long-term health conditions caused the person's chronic pain. The cause of chronic pain is often complex and difficult to identify (Painaustralia 2019a).
How does chronic pain affect a person’s life?

Chronic pain can have a profound effect on a person’s life. People with chronic pain may have trouble sleeping, going to work, going to school or social activities, and difficulty with physical tasks such as household chores, lifting, or exercising (Breivik et al. 2006; Finan et al. 2013; Hadi et al. 2018; Roehrs et al. 2013). Older adults with chronic pain are at increased risk of falling, deteriorating mobility, and disability. This can affect their ability to look after themselves independently later in life (Eggermont et al. 2014; Stubbs et al. 2014).

People with chronic pain reported significantly higher rates of limitations to daily activities than those without chronic pain (ABS 2017). They were almost 5 times as likely to report their daily activities were ‘limited a lot’ (33%) and twice as likely to report their activities were ‘limited moderately’ (35%). People without chronic pain were 9 times as likely as those with chronic pain to say that their activities were not limited (Figure 3).
How is chronic pain treated?

A person with chronic pain may consult a range of health professionals to help manage their pain, including GPs, medical specialists, psychologists, physiotherapists and social workers. Many patients also use medications, such as paracetamol and non-steroidal anti-inflammatory drugs (NSAIDS), and some may receive treatment in hospital (RACP 2009).

More people are seeing GPs for chronic pain

According to the Bettering the Evaluation and Care of Health (BEACH) study, more people are seeing GPs about chronic pain. Between 2006–07 and 2015–16, the rate of GP visits where chronic back pain or unspecified chronic pain were managed during the visit increased 67%, representing about 400,000 more encounters for both conditions (Figure 4).

Figure 3: Extent of limitations to daily activities in people with or without chronic pain, aged 45 and over, 2016

Note: Age-standardised to the 2001 population.

Figure 4: GP encounters that managed chronic back pain and unspecified chronic pain, per 1,000 GP encounters, 2006–07 to 2015–16

Note: Encounters that managed chronic back pain were measured as a proportion of encounters where a list of chronic conditions were managed, while encounters that managed unspecified chronic pain were measured as a proportion of all encounters. Please see Britt et al. 2016 for more details about how these rates were calculated.
What medications do people use for their chronic pain?

Analgesics (pain medications) are often used to treat the symptoms of pain. These medications aim to reduce the severity of a person’s pain, so that they can function more easily in their daily life. Analgesics used to treat pain include paracetamol, NSAIDs and opioids (RACGP 2018).

How do we measure medication use in people with chronic pain?

In Australia, most prescription pharmaceuticals are subsidised for all Australian Medicare cardholders under the Pharmaceutical Benefits Scheme (PBS).

The PBS codes medications using the Anatomical Therapeutic Chemical (ATC) classification system, which classifies the active ingredients of medications according to their therapeutic, pharmacological and chemical properties and the organ or system on which they act. In the ATC, analgesics are classified under the nervous system anatomical main group and comprise 3 subgroups: opioids, antimigraine medications and other analgesics and antipyretics (WHO Collaborating Centre for Drug Statistics Methodology 2018).

This section examines linked data from the PBS and the 2016 Survey of Health Care to compare the differing patterns in analgesic prescriptions between people (aged 45 and over) who had chronic pain and those who did not. This does not capture people who did not have their prescription filled, or who bought over-the-counter medications (such as paracetamol).

For more information, see ‘About the data’ section on page 12.

In 2016, among those aged 45 and over, more than half (57%) of people with chronic pain were dispensed analgesics, compared with 1 in 5 (21%) people without chronic pain. These medications included prescription opioids, other analgesics and migraine medications. People with chronic pain were almost 3 times as likely to be dispensed opioids, other analgesics or migraine medications as those without chronic pain (Table 1). Paracetamol was the most commonly dispensed analgesic (28% of those with chronic pain and 8.9% of those without chronic pain). This was followed by codeine, with 18% of those with chronic pain and 7.5% of those without chronic pain having been dispensed codeine, either by itself or in combination with non-opioid analgesics, such as paracetamol, aspirin and ibuprofen (Supplementary Table 1).

Table 1: Proportion of people, aged 45 and older, with and without chronic pain, who were dispensed at least 1 analgesic medication, 2015–2016

<table>
<thead>
<tr>
<th></th>
<th>With chronic pain</th>
<th>Without chronic pain</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dispensed opioids</td>
<td>40%</td>
<td>13%</td>
</tr>
<tr>
<td>Dispensed migraine medication</td>
<td>2.5%</td>
<td>1.3%</td>
</tr>
<tr>
<td>Dispensed other analgesics</td>
<td>38%</td>
<td>11%</td>
</tr>
<tr>
<td>Total dispensed analgesics(a)</td>
<td>57%</td>
<td>21%</td>
</tr>
</tbody>
</table>

(a) Does not equal the sum of the analgesics groups as people can be dispensed more than 1 type of analgesic.

Notes
1. Those respondents who recorded their main condition as not applicable have been excluded.
2. People who did not have their prescription filled, or who bought over-the-counter medications are not captured in the above data.

Source: AIHW analysis of ABS 2017
Opioid use

Opioids are drugs that have a morphine-type action in the body and are commonly used for pain relief—this includes relief of chronic pain and of acute pain, such as the pain experienced after surgery or after an injury. Examples of opioids include oxycodone, codeine, tramadol, buprenorphine, tapentadol and morphine.

Opioids are recommended in the treatment of chronic pain where other pharmacological and non-pharmacological treatment strategies have not been effective (ACSQHC & AIHW 2018). However there is increasing evidence of harm and negative side effects, and a lack of evidence of the effectiveness of long-term opioid use for managing chronic pain (AIHW 2018; Currow et al. 2016; Megale et al. 2018). Opioids may not offer any additional pain relief to non-opioid medications such as paracetamol or NSAIDs, and the risk of harm is higher (Chaparro et al. 2013; Krebs et al. 2018).

Opioid misuse is of national and international concern. All opioids carry a risk of dependence, accidental overdose, hospitalisation and death (AIHW 2018).

The number of opioid prescriptions dispensed in Australia through the PBS increased from 55,900 per 100,000 people in 2013–14, to 58,600 per 100,000 people in 2016–17. While there was an increase in opioid prescriptions, the defined daily dose of opioids (number of defined daily doses dispensed per 1,000 people per day) decreased, from 16 in 2013–14, to 15 in 2016–17 (ACSQHC & AIHW 2018).

Australia has introduced a range of initiatives in response to opioid use and misuse. In 2020, the Australian Government will implement measures to:

- increase restrictions on prescribing fentanyl patches
- tighten and align the rules for when opioids should be prescribed
- provide clearer warnings in information for prescribers and consumers
- create smaller pack sizes for immediate-release opioids, so that patients are not left with unused opioids after recovering from episodes of acute care (DoH TGA 2020).

Since 1 February 2018, medicines containing codeine cannot be bought over the counter at pharmacies. This policy change led to a 50% reduction in the total number of codeine-containing products supplied in 2018, compared with the average total supplied in the previous 4 years (DoH TGA 2019).

Another option to tackle opioid use and misuse is to increase the use and awareness of non-opioid treatments for chronic pain (DoH TGA 2018). This includes increasing access to specialist pain management services (Painaustralia 2019b).
How many hospitalisations are there?

How do we measure chronic pain hospitalisations?

A hospitalisation, or a hospital separation, refers to an episode of admitted patient care, which can be a total hospital stay (from admission to discharge, transfer or death) or a portion of a hospital stay beginning or ending in a change of type of care (for example, from acute to rehabilitation care) (AIHW 2019a).

For hospital separations, the principal diagnosis is the diagnosis established after study to be chiefly responsible for the patient's episode of admitted patient care. An additional diagnosis is a condition or complaint that either coexists with the principal diagnosis or arises during the episode of care. An additional diagnosis is reported if the condition affects patient management (AIHW 2019a).

When chronic pain is documented, and there is a known cause for chronic pain (for example, back pain), the cause is the principal diagnosis and chronic pain is reported as the additional diagnosis. Chronic pain is the principal diagnosis only when there is no known cause. For more information, see ‘About the data’ section on page 12.

A procedure or intervention is a clinical intervention that is either surgical, carries an anaesthetic risk, requires specialised training and/or requires special facilities or services available only in an acute care setting. Patient support interventions that are neither investigative nor therapeutic (such as anaesthesia) are also included (AIHW 2019a). In 2017–18, procedures were recorded using the 10th edition of the Australian Classification of Health Interventions (ACHI) (ACCD 2017).

In 2017–18, there were nearly 105,000 hospitalisations for chronic pain (both principal and additional diagnosis). Almost all of these (99%, or 103,700) recorded chronic pain as an additional diagnosis and 1.2% (1,300) recorded it as a principal diagnosis (no known cause of pain). Hospitalisation rates were higher for women across all age groups and the rate of hospitalisations involving chronic pain increased with age (Figure 5). However, this may be explained by a combination of females having higher overall hospitalisation rates than males and overall hospitalisation rates increasing as age increases.

Figure 5: Rate of hospitalisations for chronic pain by sex and age group, 2017–18

Source: AIHW National Hospital Morbidity Database.
Note: Includes chronic pain as either principal or additional diagnosis.
Most people with chronic pain are in hospital for musculoskeletal conditions

More than 4 in 10 people (42%) with chronic pain as the additional diagnosis had a principal diagnosis of diseases of the musculoskeletal system and connective tissue (such as arthritis and back pain). Other common reasons for hospitalisation were symptoms, signs and abnormal findings (12%), cancer (7.1%), mental and behavioural disorders (7.0%) and injury, poisoning and other external causes (5.1%) (Figure 6). The principal diagnoses in chronic pain hospitalisations were mostly similar between males and females with the exception of cancer, which was 1.8 times as high in men as women, and signs and abnormal clinical and laboratory findings, which was 1.4 times as high in women (Figure 6).

![Figure 6: Most common principal diagnosis in chronic pain hospitalisations, 2017–18](image)

Source: AIHW National Hospital Morbidity Database.
Note: Chronic conditions are grouped by ICD-10-AM (10th Edition) disease chapters.

More than half of hospital procedures are for allied health

In 2017–18, 23.7 million procedures were performed in Australia’s hospitals, 1.4% (322,000) of which were associated with a chronic pain diagnosis (principal or additional). The proportion of hospitalisations that involved at least 1 procedure was similar between hospitalisations with and without chronic pain (83% and 84%, respectively). However, hospitalisations involving chronic pain involved more procedures: 22% had 5 or more procedures, compared with 8.9% for other hospitalisations (AIHW 2019b).

The most common groups of procedures associated with chronic pain were:

- **allied health** interventions, such as **physiotherapy** and **occupational therapy** (52%, or 167,000 procedures)
- **general anaesthesia** or **sedation** (8%, 25,800 procedures)
- procedures to deliver local anaesthetic to a small nerve (6%, 20,100 procedures).
Chronic pain patients spend more time in hospital

More than two-thirds (69%) of patients with chronic pain were not discharged on the same day they were admitted—a rate 1.8 times as high as patients without chronic pain (39%) (AIHW 2019b).

The mean and median number of days spent in hospital were higher among patients with chronic pain. These patients stayed an average (mean) 5 days longer (7.5 bed days) in hospital than patients without chronic pain (2.6 bed days). The median number (middle value) of bed days was also 3 times as long for chronic pain patients than for patients without chronic pain (3 days compared with 1).

When considering only patients who were not discharged on the same day, those with chronic pain stayed on average twice as long in hospital as patients without chronic pain (10 days compared with 5 days).

Rate of hospitalisations is higher for people in lower socioeconomic areas

Socioeconomic disadvantage has been associated with increased risk of chronic pain (Blyth et al. 2001), although other factors may contribute to this relationship, including psychological distress and reduced ability to take steps to improve health (Davies et al. 2009).

People from the lowest socioeconomic (most disadvantaged) areas were 1.7 times as likely to be hospitalised with chronic pain as those from the highest socioeconomic (least disadvantaged) areas (505 compared with 303 per 100,000 population) (Figure 7).

Figure 7: Chronic pain hospitalisations, by socioeconomic area, 2017–2018

![Bar chart showing chronic pain hospitalisations by socioeconomic area, 2017–2018.](source)

Source: AIHW National Hospital Morbidity Database.
Note: Includes chronic pain as either principal or additional diagnosis.

How much does chronic pain cost?

Chronic pain has an enormous effect on a person’s life, and on the Australian economy more broadly. The financial cost of chronic pain in 2018 was an estimated $73.2 billion (Painaustralia 2019c). This included:

- $48.3 billion (66%) for productivity costs, reflecting the impact on a person’s ability to work, work performance and employment outcomes
- $12.2 billion (17%) for direct health system costs (where known cause and unknown cause of chronic pain estimates are the same).
The remaining financial costs include indirect costs such as informal care, forgone taxation revenue, welfare payments and aids and modification costs. Quality of life reduction costs (including loss of healthy life and premature death) bring the total estimated cost to $139.3 billion. By 2050, it is estimated that the annual cost of chronic pain in Australia will rise to $215.6 billion, partly due to an ageing population (Painaustralia 2019c).

What are the challenges in reporting on chronic pain in Australia?

Measuring chronic pain is difficult due to the subjective nature of pain, lack of a national definition, and variation in questions measuring chronic pain in surveys. The subjective and ongoing nature of pain results in variation in reported pain intensity, pain persistence and pain-related disability (Painaustralia 2019a).

A person can experience several types of pain (for example, cancer, neuropathic and musculoskeletal pain). The surveys and data collections examined in this report do not measure these distinct types but measure them collectively, which makes it difficult to explore the different types of chronic pain experienced in Australia.

Limited data are available on Aboriginal and Torres Strait Islander people’s experience of chronic pain, as there are currently no national surveys of Indigenous people that include a question about chronic or long-term pain.

Older Australians, those with disabilities and those in residential care are at higher risk of experiencing chronic pain. However, there are additional barriers to identifying and treating their pain, as care facilities are often out of the scope of national reporting measures and cognitive or communication disabilities, such as dementia or hearing loss, may prevent people from reporting their experience of pain (Savvas & Gibson 2015).

It is also difficult to measure the treatment of chronic pain in Australia, as insufficient data are available measuring primary care services (including allied health and alternative health services) used for chronic pain.

Next steps

In 2019, the World Health Organization adopted the International Classification of Diseases 11th Revision (ICD-11), which is the first version of the ICD to contain systematic definitions and codes for chronic pain (IASP 2019). In Australia, a decision has not yet been made as to whether ICD-11 will replace ICD-10 and ICD-10-AM for the collection and reporting of health-care statistics. The Australian Institute of Health and Welfare reviewed ICD-11, and its potential implementation in Australia, in consultation with a range of stakeholders in early 2019. They suggested further research to inform a decision on whether, when and how to implement ICD-11 in Australia (AIHW 2020).

Steps that could be taken to improve the collection of data on chronic pain include:

• clearly defining chronic pain (for example, pain persisting daily for at least 3 months) in national data collections
• measuring the different types of chronic pain
• further researching the relationship between other conditions that occur with pain, such as mental health conditions (for example, depression and anxiety)
• including chronic pain when collecting primary care data (that is, from both GPs and other primary care providers such as physiotherapists) to provide further insight into how the condition is managed
• including a question on the experience of chronic pain in surveys targeted at Indigenous Australians
• exploring opportunities to capture chronic pain experienced in residential care facilities.
Where do I go for more information?

Further information on chronic pain in Australia is available from <https://www.painaustralia.org.au/>.


About the data

Survey of Health Care

The Survey of Health Care 2016 sampled people aged 45 and over who saw a GP in the previous 12 months. Participants were asked whether they had a long-term health condition. Participants were classified as having chronic pain if they reported moderate or severe pain lasting longer than 6 months.

Data linkage—2016 Survey of Health Care and Pharmaceutical Benefits Scheme

More than 16,000 study participants consented to the linking of their 2016 Survey of Health Care responses to information about the health services they used between 1 January 2014 and 30 June 2018, obtained from the PBS (and MBS; not included in this report) (ABS 2017).

This report used data from participants' use of PBS services in 2015–16 to coincide with the Survey of Health Care reference period of 2016.

Survey of Disability, Ageing and Carers

The Survey of Disability, Ageing and Carers collects information from 3 populations: people with a disability, older people, and people who are their carers. Participants reported whether they had chronic or recurrent pain, or discomfort, and whether or not this limited their activities.

National Hospital Morbidity Database

The data in this report was sourced from the AIHW's National Hospital Morbidity Database (NHMD) from 2006–07 to 2017–18, which covers all (admitted) episodes of care in Australian hospitals. A record is included for each separation, not for each patient, so patients who were admitted to hospital more than once in 1 year have multiple records in the NHMD.

Records where an admission was reported as a transfer from another hospital were excluded to reduce double counting of cases. For more information, please refer to Admitted patient care 2017–18, Appendix A: Data Quality Statements at <https://www.aihw.gov.au/reports/hospitals/admitted-patient-care-2017-18/contents/at-a-glance>.

Hospitalisations for chronic pain conditions, especially those caused by musculoskeletal conditions, usually occur only when surgical intervention is required or the condition is severe. Due to this, chronic pain hospitalisations are less frequent than general practice visits (ABS 2017, AIHW 2019a, AIHW 2019b). The following care types were excluded when undertaking the analysis: 7.3 (newborn—unqualified days only), 9 (organ procurement—posthumous) and 10 (hospital boarder).

In this report, chronic pain hospitalisations were defined as those classified in the International Classification of Diseases and Related Health Problems, 10th Revision, Australian Modification (ICD-10-AM) (ACCD 2017) as chronic pain (R52.2). The Australian Coding Standard (1807) for Acute and Chronic Pain governs how ICD-10-AM codes for chronic pain are assigned to records. Where there is a known underlying cause for chronic pain, the chronic pain code is assigned as an additional diagnosis. Where there is no known cause, chronic pain is assigned as the principal diagnosis. Neoplastic (cancer) pain, neuropathic pain and nociceptive pain are synonymous with chronic pain and classified as chronic pain (R52.2).
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Glossary

Aboriginal or Torres Strait Islander: A person of Aboriginal and/or Torres Strait Islander descent who identifies as an Aboriginal and/or Torres Strait Islander.

additional diagnosis: The diagnosis of a condition or recording of a complaint—either coexisting with the principal diagnosis or arising during the episode of admitted patient care (hospitalisation). Multiple diagnoses may be recorded.

allied health: Branches of health which are not medicine, nursing or dentistry. Allied health includes (but is not limited to) occupational therapy, optometry, osteopathy, pharmacy, physiotherapy, podiatry, psychology, radiography and speech pathology.

analgesics: Medications that relieve pain.

antipyretics: Medications that reduce fever.

anxiety: A group of mental disorders marked by excessive feelings of apprehension, worry, nervousness and stress.

arthritis: A group of disorders including osteoarthritis and rheumatoid arthritis, for which there is inflammation of the joints—which can then become stiff, painful, swollen or deformed.

dependence: A physical dependence on a substance characterised by withdrawal. It is not equivalent to addiction, though it is often considered to be a stepping stone towards it.

depression: A mood disorder with prolonged feelings of being sad, hopeless, low and inadequate, with a loss of interest or pleasure in activities and often with suicidal thoughts or self-blame.

discharged: When a patient is medically cleared to leave a hospital.

endometriosis: A health condition affecting females where endometrial tissue, or tissue that lines the uterus, grows onto other pelvic tissues where it shouldn’t, for example the ovaries or bowel.

Fentanyl: A highly addictive opioid analgesic similar to morphine used for severe pain relief.

fibromyalgia: A condition characterised by general muscle pain across the body, often accompanied by symptoms of fatigue and interrupted sleep.

general anaesthesia: Medically induced coma or loss of consciousness, usually before surgery or other medical procedure.

general practitioner (GP): A medical practitioner who provides primary comprehensive and continuing care to patients and their families in the community.

genetic predisposition: The increased risk of developing a disease given an individual’s particular genes.

intervention: A clinical intervention that is either surgical, carries an anaesthetic risk, requires specialised training and/or requires special facilities or services available only in an acute care setting.
migraines: A neurological condition characterised by an intense headache and other sensations such as light sensitivity, visual auras and nausea.

musculoskeletal conditions: One of a group of conditions, along with arthritis and other conditions, that affects the bones, muscles and joints. These other conditions include back pain and problems, juvenile arthritis, osteoarthritis, osteopenia, osteoporosis (low bone density) and rheumatoid arthritis.

neuropathic pain: Sensation of pain caused by damage or disease of sensory nerves.

non-opioid analgesics: Pain relief medications which do not belong to the opioid class.

non-steroidal anti-inflammatory drugs (NSAIDS): A class of medications that reduces pain and inflammation.

occupational therapy: Interventions aimed to maintain an individual's activities of daily living following trauma or injury through assessment and support.

opioids: A chemical substance that has a morphine-type action in the body. Opioids are most commonly used for pain relief, but they are addictive and can lead to drug dependence.

osteoporosis: A condition that causes bones to become thin, weak and fragile, such that even a minor bump or accident can break a bone.

paracetamol: An antipyretic and analgesic medication frequently used for mild pain relief.

physiotherapy: The treatment or management of physical disability, malfunction, or pain using therapeutic exercises, physical modalities such as massage and hydrotherapy, assistive devices, and patient education and training. Sometimes referred to as physical therapy.

principal diagnosis: The diagnosis established after study to be chiefly responsible for the patient's episode of admitted patient care.

procedure: A clinical intervention that is either surgical, carries an anaesthetic risk, requires specialised training and/or requires special facilities or services available only in an acute care setting.

sedentary: A lifestyle characterised by frequent sitting and physical inactivity.

separation: A hospital separation, or hospitalisation, refers to an episode of admitted patient care which can be a total hospital stay (from admission to discharge, transfer or death) or a portion of a hospital stay beginning or ending in a change of type of care (for example, from acute to rehabilitation care).

socioeconomic disadvantage: Lack of access to material or social resources affecting an individual's ability to participate to their potential in society. May include factors such as lower income or years of education.

sedation: Medically induced reduction of consciousness and sensations of pain, but not complete loss of consciousness, usually before surgery or other medical procedure.
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