



THE
AUSTRALIAN
PAIN SOCIETY

POSITION STATEMENT:

The Role of the Psychologist
in the Management of Pain

4th Edition

(March 2024)

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The Role of the Psychologist in the Management of Pain

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Executive Summary

Chronic pain is prevalent, expensive and results in major losses to productivity and quality of life for many Australians. Psychologists are qualified health professionals skilled in helping people with a range of concerns related to wellbeing, mental health, and behaviour, including the management and prevention of pain.

The evolution of the psychologist's role has occurred in parallel with our increased understanding of the biological, psychological, and social factors which contribute to pain. Psychologists also bring an interdisciplinary perspective in non-clinical pain management roles, leading to improvements in healthcare education, research, and program development.

Why are Psychologists involved in pain management?

- Psychologists are well placed to provide non-pharmacological interventions for the management of chronic pain, for which there is strong evidence. Learning about pain and developing new skills at an early stage in the experience of pain can reduce the risk that pain will become chronic, and increases the chances of a person re-engaging with work and previously enjoyed activities.
- Pain and mental health have a reciprocal relationship; almost half of people with chronic pain experience some form of psychological difficulty which can exacerbate pain, and undermine their ability to manage. Treating both mental illness and pain concurrently will lead to better outcomes than treating these in isolation.
- Psychologists are curious about human experiences and help people better understand their own patterns of thoughts, sensation, and emotion, thereby empowering them to change.

What does a Psychologist do in pain management?

- Psychologists assess, treat, and evaluate from a biopsychosocial perspective using evidence-based approaches.
- Support people to develop pain self-management skills, learn how to change unhelpful thoughts and beliefs about pain, and change health related behaviours to overcome barriers to recovery.
- Address psychological factors which contribute to pain, including distress, disengagement from enjoyable activities, maladaptive coping strategies, and difficulties with sleep.

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- Enhance patient and treatment team's understanding of shared goals through ongoing monitoring of progress and outcomes using standardised measures.

When should a Psychologist be involved in pain management?

- Psychologists have traditionally been seen in the management of long-standing chronic pain. However, their value is now better recognised across the trajectory of pain, being increasingly included in acute pain, presurgical assessment, prevention, and longer-term treatment planning.
- If psychological risk factors are identified in the early stages of pain onset, referral to a psychologist is recommended as soon as possible.
- Improved outcomes from early intervention will prevent long term pain-related disability.

How should a Psychologist be providing services for pain management?

- Interdisciplinary practice is ideal, with multiple disciplines collaborating to develop a shared understanding, cohesive treatment approach, and joint facilitation of education and intervention.
- Where co-location with multidisciplinary teams is possible, this is preferred. However, having open communication to enable a shared team approach will support best practice even when psychologists are working independently in a single-discipline setting.
- Psychologists will be providing services for pain management in a range of modalities including online, in-person, individual and group programs. It is expected there will be significant variability to suit the needs of different client groups.

Who should be providing psychological services for pain management?

- Psychologists have comprehensive training in human behaviour. Those working in pain management will have additional understanding of the complexities of pain through appropriate training and supervision.
- Emerging psychologists working in pain management are committed to maintaining currency with pain science and psychological approaches to pain management via mentoring and/or additional formal training and education.
- Experienced psychologists working in pain management who understand and practice within a collaborative and interprofessional paradigm, and have knowledge of the multidimensional nature of pain and the importance of comprehensive clinical care.

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Introduction

Chronic pain affects 1 in 5 Australians, or one in three for older individuals. It is the country's third most expensive health condition with an estimated yearly cost of \$139.3 billion including direct healthcare expenditure and lost productivity (Deloitte Access Economics, 2019). Individuals with chronic pain commonly experience anxiety, depression, sleep disturbance, fatigue, and loss of quality of life and function (Australian Institute of Health and Welfare [AIHW], 2020). Multidisciplinary approaches to pain management, which include psychology as an important feature, may improve quality of life for those living with pain and afford savings to health and disability support systems (Deloitte Access Economics, 2019).

The discipline of psychology plays a significant role in the Australian health system. In 2020-21, just under 1.5 million Australians aged 16-85 saw a psychologist to enhance their physical and mental health (National Study of Mental Health and Wellbeing: 2020–21). The COVID-19 pandemic highlighted the importance of timely access to psychology for wellbeing, prompting a shift to more telehealth-based services and a temporary increase to Medicare funded sessions under the Better Access Scheme from 2020 to 2022. A comprehensive review of COVID-19 related factors will not be undertaken for this paper; however it is acknowledged that the pandemic certainly highlighted disparities in access and waitlist pressures across the discipline of psychology (Pirkis et al., 2022) as well as the broader pain sector.

As a profession, psychology recognises the importance of evidence-based practice in pain management. Psychologists bring a unique perspective to the understanding of pain, providing services to consumers on an individual basis as well as via multidisciplinary pain management teams. They also make important contributions to program development, research, and advocacy across the pain sector.

This position paper will provide an overview of the key role of Psychologists by answering the following questions:

- Why are Psychologists involved in pain management?
- What does a Psychologist do in pain management?
- When should a Psychologist be involved in pain management?
- How should a Psychologist be providing services for pain management?
- Who should be providing psychological services for pain management?

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In recognition of the complex nature of pain and the involvement of a range of health care professionals, this paper has been developed to inform a broad multidisciplinary audience, including clinicians entering or working in the pain management field, Psychologists-in-training, health professionals needing support for their pain management patients, health care funders, health care administrators, and other services interested in psychological approaches to pain management.

Why are Psychologists involved in pain management?

Pain is impacted by the biological, emotional, cognitive, behavioural, and social influences of the individual living with the condition (Epker, 2013; Greve et al., 2012; Roditi & Robinson, 2011; Turk & Robinson, 2011). It is a complex problem that is frequently associated with a range of physical and psychological co-morbidities. Indeed, over 44% of people with chronic pain experience some form of psychological difficulty such as depression or anxiety (Tardif et al., 2018); conditions which can exacerbate pain and erode effective management. Pain is also influenced by cognitions, with beliefs (e.g., about symptoms) driving behaviour and mediating factors such as treatment engagement, functional activity, mood, and coping (Turner et al., 2000). Similarly, social factors such as beliefs/opinions of significant others, the work environment and iatrogenic factors within the treating relationship can all shape the interpretation of, and response to, pain.

Pharmacological interventions can be of limited benefit for chronic pain, especially when used exclusively. In some circumstances, they can exacerbate the problem (e.g., increased pain through opioid induced hyperalgesia (Morris & Crowley, 2020) or rebound headache from codeine-based medication (Diener et al., 2019)). A current concern is the perceived over-reliance on medications, especially opioid medications, to manage pain despite data demonstrating that they are frequently ineffective in the long-term and carry a significant risk profile (Australian and New Zealand College of Anaesthetists Faculty of Pain Medicine, 2021; Wandner et al., 2020). There is, however, strong evidence for non-pharmacological approaches to the management of pain, of which Psychologists are critical providers.

What does a Psychologist do in pain management?

Psychologists work across the trajectory of pain, providing assessment and treatment to individuals living with pain, and guiding the evaluation of outcomes achieved by those

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interventions to ensure that therapeutic goals are achieved (Wandner et al., 2019). Psychologists can be involved from the earliest stages of pain onset to improve outcomes and are firmly established within the chronic pain management setting, assisting with emotional and functional distress, and supporting individuals to change health behaviours in order to more effectively self-manage pain. Psychologists target symptom reduction for co-morbid mental health conditions (e.g. PTSD, depression, anxiety), whilst also focusing on the broad range of factors influencing the individual's pain (e.g., attention, learning and memory, beliefs and thought processes, social context). They provide specialised input to inform care planning (as outlined below) and collaborate with other professionals to highlight relevant psychological and social factors; thus facilitating the development of a comprehensive case formulation that is shared among the treating team.

Psychological Assessment

Psychological assessment is conducted for many reasons, including:

- diagnosis;
- informing treatment decisions and care plans;
- pre-medical procedure or pre-surgery screening (e.g., for neuromodulation or intrathecal drug delivery devices);
- informing disability determination; and
- monitoring treatment progress and effectiveness (Turk & Robinson, 2011).

Broadly speaking, psychological assessment considers the biological, psychological, and social factors that may be contributing to an individual's pain, and the impact that those factors are having on the person's life. This model is reflected in the latest revision of the International Classification of Disease for chronic pain (Treede et al., 2019; World Health Organization, 2020) where clinicians are encouraged to look for positive evidence of contributors from these different domains when assessing an individual's pain, rather than forming a diagnosis by exclusion (Nicholas, et al., 2019b).

During an assessment, a Psychologist will seek to develop a broad understanding of the pain onset and context, as well as how it impacts on the life of the individual living with it. This information enables identification of key factors contributing to the person's pain condition, as well as potential barriers (e.g., low self-efficacy, unhelpful beliefs about pain, distress, fear and anxiety, depression, readiness for change, unrealistic expectations) and facilitators (e.g.

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spouse, employer, previous experience) to treatment progress. This information is then drawn together to form a comprehensive understanding of the individual's experience. Psychologists call this a case formulation (Linton & Nicholas, 2008).

Accredited training for psychology includes rigorous skill development in conducting comprehensive psychosocial assessments. As there is no simple instrument that can objectively measure pain, the procedures and measures used by a Psychologist in the assessment of individuals living with pain will depend on a range of factors. This includes the purposes(s) of the assessment, the unique characteristics of the individual being assessed (e.g., age, cultural background, educational level, ability to communicate verbally) and the context in which the assessment is taking place (e.g., clinic, emergency department, medicolegal setting) (Turk & Robinson, 2011). Valid and reliable pain-specific psychometric measures (such as those used in the electronic Persistent Pain Outcomes Collaboration (Australian Health Services Research Institute, 2023) can be used to quantify pain intensity, emotional distress, and physical function, explore belief systems, and examine coping strategies. Normative data for Australasia are now available for many of these scales (Nicholas et al., 2019a); but it is important to note that psychometrics should always be interpreted in concert with clinical data.

Psychological Treatment

Psychological approaches to the management of pain emphasise self-management strategies to facilitate improved function, reduced pain, and enhanced quality of life; with specific goals determined by the preferences of the individual (Nicholas & Blyth, 2016). Treatment by a Psychologist directly targets barriers to progress in physical, social, and psychological domains by focusing on behavioural change and functional re-engagement. Enhancing insight into the secondary gains and losses which have arisen from pain is also often needed to facilitate change. Focusing on the individual with pain is central to treatment, however couples or family therapy may also be appropriate, particularly in the paediatric or disability setting. The effectiveness of therapy depends on a range of factors including the therapist's training and experience and, critically, the engagement of the individual with the therapeutic process. With those caveats in mind, the following are some commonly used, evidence-based psychological therapies for pain management:

- *Cognitive-Behavioural Therapy (CBT)* assists individuals to recognise and change thoughts, behaviours and social/environmental factors that have been identified (by

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the individual and the Psychologist) as unhelpful in the interpretation of, or response to, pain (Tang, 2018);

- *Behavioural Therapy (BT)* helps individuals identify and reduce maladaptive behaviours carried out to avoid pain or triggered by worry about pain (Williams et al., 2020); and
- *Acceptance and Commitment Therapy (ACT)* is a mindfulness-based behaviour therapy, which focuses on acceptance and committed action to increase an individual's physical function and engagement with valued activities, without necessarily eliminating the pain (Hughes et al., 2017).

Therapeutic strategies

Irrespective of therapeutic modality, Psychologists working in pain management facilitate behavioural change and functional re-engagement through the identification and management of psychological issues affecting the individual. The following therapeutic strategies are especially important when treating patients with pain:

- *Pacing*. Pacing is a well-recognised pain management tool. Effective pacing targets activities rather than pain, relies on objective measures such as time, and incorporates the principles of other psychological strategies including goal setting, conditioning, and relapse prevention (refer Hadzic et al., (2017) for an overview of key concepts).
- *Exposure*. Similar to exposure for anxiety and phobias, exposure in pain management focuses on exposure to a feared/avoided stimulus or experience (Glombiewski et al., 2018). Here, the stimulus may be a behaviour (e.g. lifting), a setting (e.g. workplace), or an experience (also called interoceptive exposure, refer Nicholas et al. (2014))
- *Hypnosis / Hypnotherapy*. Hypnosis has been shown to be effective at reducing pain severity and promoting a number of associated positive effects such as increased energy, mood, and use of self-management techniques (Jensen & Patterson, 2014), and can be used in conjunction with other approaches such as cognitive and behavioural therapies.
- *Mindfulness*. Although Acceptance and Commitment Therapy includes the use of mindfulness as a strategy for “defusion” from thoughts and feelings, mindfulness can also be effectively used as an independent psychological technique. Mindfulness is generally defined as intentionally focusing one's attention on the experience occurring in the present moment in a non-judgemental and accepting way (Kabat-Zinn, 2013). Mindfulness allows individuals with pain to step back from and reframe experiences,

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and has been shown to result in lower levels of disability, anxiety, depression and catastrophising and an increase in quality of life (Cassidy et al., 2012; Hilton et al., 2017).

- *Psychoeducation.* A core component of pain management is educating people about pain and about how their physical, emotional, and cognitive response to pain impacts their experience of it. This includes fostering an understanding of the role of the nervous system and sensitisation, as well as the individual's pain triggers and strategies for managing crises (Moseley & Butler, 2015). To competently provide psychoeducation for people with pain, Psychologists should have a working knowledge of the language, terms, treatments, and outcomes associated with all aspects of pain and its management. This knowledge is also vital in the context of interdisciplinary care; enabling the Psychologist to understand key concepts regarding the efficacy of procedures, medications and physical activities that may be recommended for the person with pain.
- *Anxiety management strategies.* In addition to generalised anxiety management and exposure therapy (refer above) (Flink et al., 2020), Psychologists can support individuals to break the cycle of pain-related fear and avoidance behaviours. The fear avoidance model of chronic pain postulates that fear of anticipated pain results in hypervigilance and monitoring of pain sensations which in turn, can increase pain intensity. Over time, this can lead to avoidance of movement and activity, resulting in reduced function, lower mood, increased disability, and greater fear (Zale & Ditre, 2015).
- *Treatment of PTSD symptoms.* Pre-existing and pain-related trauma are common in this population. Research shows a bi-directional temporal relationship between pain and trauma, with management of trauma symptoms influencing pain management outcomes (Ravn et al., 2018).
- *Sleep strategies.* Sleep and chronic pain are intricately linked and there is strong evidence that improving sleep quality can improve pain (Finan et al., 2013) and increase quality of life.
- *Healthy lifestyles.* Supporting people with pain to engage in healthy behaviours such as regular physical activity and eating a healthy diet can improve quality of life (Brain et. al., 2019). Additionally, Psychologists can provide targeted therapy for management of smoking, alcohol and both prescribed and illicit substances (Witkiewitz & Vowles, 2018).
- *Applied relaxation training.* This targets the physiological and/or psychological impact of pain, and may include techniques such as progressive muscle relaxation, guided relaxation and rapid relaxation using breathing and cues. Regular practice of all

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methods is required to ensure their efficacy (Hayes-Skelton., 2013; Kwekkeboom & Gretarsdottir, 2006).

- *Vocational rehabilitation.* This includes assessment of the potential for vocational retraining and liaison with employers, rehabilitation providers and case managers to inform work placement and development of effective return to work strategies.

Evaluation of therapeutic outcomes

Evaluation of treatment – process and outcomes - is a vital part of evidence-based interventions and should be an ongoing process throughout treatment. Large scale data collection through the electronic Persistent Pain Outcomes Collaboration (Tardif et al., 2016; Holloway et al., 2023) has been influential in standardising the evaluation of treatment in pain clinics across Australia and New Zealand. Normative data on these measures have now been published, enabling more accurate assessment and evaluation of treatment outcomes (Nicholas et al., 2019a). Similarly, routine outcome measurement (ROM) enhances collaboration as it facilitates the tailoring of interventions to individual goals and permits the therapeutic relationship to be monitored; a significant factor in predicting treatment efficacy. It can also help demonstrate treatment gains and reduce deterioration in care (Miller et al., 2020).

It is important to note that the definition of ‘treatment success’ will vary as a function of who is asking the question. For example, an individual with chronic pain may define treatment success solely as a function of pain severity; a health service provider may consider both pain reduction and functional outcomes as important; and a workers’ compensation insurer may prioritise the ability to return to gainful employment with little consideration for pain severity (Turk & Robinson, 2011). The definition of treatment success must therefore be clearly defined at the outset of therapy so that any evaluation of therapeutic outcomes can be designed in a way that captures this shared agreement.

When should a Psychologist be involved in pain management?

Early referral for psychological assessment and treatment is important as timely intervention may prevent the development of maladaptive behaviours and thus lead to improved outcomes, including improved return to work rates for injured workers (Nicholas et al., 2020). General practitioners and allied health professionals would ideally screen for psychological

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risk factors (known as “yellow flags”) for pain-related disability soon after the onset of pain and facilitate referral to a psychologist at the earliest opportunity to optimise their patient’s recovery. In many areas, access to tertiary services is limited, resulting in lengthy wait-times that may erode patient wellbeing and quality of life (Burke et al., 2018; Hogg et al., 2021). Referral to a skilled single discipline psychology practice may therefore be more appropriate, timely and efficient than referral to a specialist multidisciplinary clinic. Psychologists who have a special interest in pain management can be accessed through the Australian Pain Society ‘[Public Listing of Members](https://apsoc.org.au/public-listing)’ (apsoc.org.au/public-listing), the Australian Psychological Society “[Find a Psychologist](https://psychology.org.au/)” website (psychology.org.au/) or the ‘[National Health Services Directory](https://about.healthdirect.gov.au/nhsd)’ (about.healthdirect.gov.au/nhsd, selecting “Pain Management”). Some suggestions regarding the appropriate duration and frequency of psychology consultations are presented as a guide for clinicians in Appendix 1.

How should a Psychologist be providing services for pain management?

Psychologists providing services for pain management may utilise a range of delivery modes including group and individual therapy, in-person, telehealth, or therapist-supported online education and treatment programs. It is important to note that while therapeutic input from a range of disciplines facilitates a shared understanding of the ‘whole person’ experience (Turk & Robinson, 2011), interdisciplinary care can occur in many formats.

Most individuals with chronic pain are treated in primary health care settings. Although not physically co-located, Psychologists working independently in the community care; thus enabling the development of common goals, clear and frequent communication, and an integrated approach to treatment based in a shared treatment or rehabilitation plan. Support from, or referral to, a specialist multidisciplinary service can occur at any time, especially where there is additional complexity, comorbidity, or limited treatment progress (Hayes & Hodson, 2011). Ultimately, effective treatment for chronic pain relies on all members of the treating team providing a consistent and cohesive message.

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Who should be providing psychological services for pain management?

Understanding psychological principles and providing psychological therapy are distinct ends of the continuum of care. It is important that all individuals working in the area of pain management have a solid understanding of how social and psychological factors can contribute to the experience of pain – indeed, the value of psychologically informed practice is increasingly acknowledged by a range of professionals involved in the treatment of pain. However, pain psychology is a specialist area of psychological practice and it is recommended that Psychologists working in this area have appropriate supervised clinical training and experience, including extensive clinical experience working with physical health populations and in particular, pain management. Where this is not possible (e.g., clinicians new to the area of pain management), they should have access to a suitably experienced clinician who can provide the necessary supervision. This is particularly salient for Psychologists working as independent sole practitioners in the community. It is also recommended that Psychologists working in this area, especially those new to it, seek more formal, up to date, knowledge-based education on pain and its management (Devonshire & Nicholas, 2018). Table 1 outlines some recommended core competencies (Wandner et al., 2019) and key knowledge areas for Psychologists working in pain management: [Refer table 1 on the following page.]

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Table 1: Recommended core competencies and knowledge areas for Psychologists working in pain management

Core Competencies	Areas of Knowledge
<ul style="list-style-type: none"> • An understanding of the multidimensional nature of pain. • Pain assessment and measurement. • Evidence-based psychological and behavioural treatments which target optimal management. • Comprehensive clinical care. 	<ul style="list-style-type: none"> • The concepts of sensitisation (central and peripheral), descending inhibition and neuroplasticity (Arendt-Nielsen et al., 2018; Borsook et al., 2018). • The main pain types currently identified: nociceptive pain, neuropathic pain, and nociplastic pain (Kosek et al., 2016). • The main chronic pain diagnoses described in the new ICD-11 classification. Specifically: <ul style="list-style-type: none"> – chronic primary pain requiring possible psychological and environmental contributors to be identified; and – the distinction between primary and secondary chronic pain (Treede et al., 2019). • A general understanding of pain pharmacology including: <ul style="list-style-type: none"> – commonly prescribed medications and their side effect profiles; – general approaches to best practice (de)prescribing, medication contracts; and – managing risks such as opioid-induced hyperalgesia and substance misuse (Armstrong et al., 2020). • Use of accurate, inclusive, and non-stigmatising language (Pain Australia, 2019)

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Summary

Chronic pain is a significant public health challenge due to its high prevalence, financial and social costs, considerable physical and psychological effects (especially for vulnerable populations) (AIHW, 2020), and limited access to quality care for those impacted. Psychologists can facilitate significantly improved pain management outcomes across the trajectory of pain, especially where relevant psychosocial factors are identified. Where such factors are identified, health practitioners should refer individuals with pain to an appropriately skilled Psychologist as early as possible. Psychologists working in this field should ensure they possess relevant competencies and knowledge (as outlined herein) and seek training, supervision, and collegiate support as required. Access to skilled Psychologists at the optimal time will significantly improve treatment outcomes and quality of life for individuals living with pain and provide major economic benefits to the Australian healthcare system.

Contributors

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3rd Edition – Laura Prendergast, Kaye Frankcom, Margaret Vandermost, Michael Nicholas, Mike Shelley, Jacqui Stanford, Michelle Martin, Su Chan, and Anne Burke (2021).

2nd Edition - Anne Burke, Su Chan, Margaret Vandermost, Michelle Martin, Ally Beeden and Kaye Frankcom (2016). With special thanks to Jacqui Stanford, Professor Tess Cramond, Ruth Braunstein and Peter Gaitanis for their contributions to the development of this paper.

1st Edition - Original paper written by Kerry Merse and Lynnette Boag (2002).

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***Introductory note for Appendices:** While not an exhaustive manual, the information contained in these appendices are to provide additional information for anyone requiring a “working knowledge” of delivering psychological intervention in a pain management context. This may include students, Psychologists who are new to the field, those charged with coordinating services within a pain management clinic, or anyone who wants more detailed information about the provision of psychological services.*

Appendix 1: Proposed timeframe for psychological intervention

Assessment

A psychological assessment is typically conducted in a single 1-hour session. For complex presentations and/or medicolegal purposes though, this can extend to 3 sessions.

Treatment

- a) *Intensive (early) phase:* Individuals may initially attend 6-12 individual sessions, typically 50 minutes in duration, occurring on a weekly or fortnightly basis (or less frequent depending on practice setting and clinical need). Progress should be reviewed after 6 sessions to determine ongoing need for intensive intervention.
- b) *Intermittent (follow-up) phase:* Individuals may then require episodic (1-6 monthly) psychological review to facilitate maintenance of treatment gains and/or provide support as they solidify behavioural changes within the context of their everyday life. For most individuals, discharge will be possible within a few sessions. In some rare instances, patients may need to be reviewed intermittently on a longer-term basis. Indicators for this may include psychological intervention preventing functional deterioration, medication increases, medical/service presentations and/or other management complications.
- c) *Crisis/flare-up phase:* Following a period of flare-up, individuals may occasionally require psychological review and brief therapeutic intervention to reinforce coping strategies and facilitate stabilisation. Discharge is often possible after a limited number of sessions.

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- d) *Exceptional circumstances*: Pre-existing/long standing personality or psychological problems, which were in existence prior to the onset of pain and have been exacerbated by, or integrated with, the pain problem, may require more extensive therapeutic intervention. Involvement with legal action and compensation processes can create a significant barrier to self-management and stabilisation. These individuals need to be clearly distinguished from those requiring more targeted pain management and such decisions should be balanced against risk of fostering dependency.

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Appendix 2: Issues typically covered in a psychological assessment

A detailed psychological assessment would include exploration of the following areas:

- Pain (e.g., location; description of physical sensations; events surrounding pain onset and/or exacerbation; the individual's understanding of his/her condition, prognosis, previous treatments, current treatments, coping strategies).
- Predisposing factors (e.g., history of childhood hospitalisation; sickness modelling by significant others; abuse history (emotional, physical, sexual), job dissatisfaction).
- Risk factors, including suicidal and/or homicidal risk.
- Behavioural changes in various areas (e.g., occupational, domestic, recreational activities; social, marital, family roles; sleep; medication and substance (mis)use).
- Emotional functioning - presence and severity of a range of emotional states (e.g., anxiety, depression, anger/hostility, guilt, shame). Specific attention should be given to the identification of symptoms of PTSD as they may have a role in maintaining physiological arousal and impact the pain, and whether they were pre-existing or arose from the incident causing the pain.
- Cognitive factors (e.g., attitudes; expectations; beliefs - rehabilitation vs cure).
- Pre-existing personality factors.
- Learning factors (e.g., reinforcement of sick role or illness behaviour; avoidance of unpleasant activities, pain and illness behaviour).
- Financial factors (e.g., compensation/litigation; financial pressures)

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Specific comment on pre-procedural assessment

The Psychologist has a specific role in the assessment and treatment of patients prior to surgery and in the assessment of patients prior to neuromodulation techniques (e.g., implantation of spinal cord stimulators and intrathecal drug delivery devices) (Epker & Block, 2001). It is important to note that pre-procedure psychological assessment has a number of functions, including the identification of: significant psychopathology (which may in turn lead to post-procedure psychological distress and treatment adherence difficulties); preparedness for, or acceptance of, the procedure; and identification of ‘yellow flags’ (psychological factors known to predict poor surgical outcome). There is strong empirical research regarding psychological factors that predict poor surgical outcomes (Block & Sarwer, 2013; Bruns & Disorbio, 2009; Voorhies, Jiang, & Thomas, 2007) including financial incentives, history of abuse or abandonment, job dissatisfaction, poor social support, substance abuse, pre-existing psychopathology, anxiety/depression, pain catastrophising and treatment engagement difficulties. Where such risk factors are identified, it may be important to recommend continuation of relevant psychological, physical, and supportive treatments, in preference to more invasive intervention (Greve et al., 2012).

Neuromodulation. The treatment success in neuromodulation is dependent on many factors beyond the technical aspects of implantation (Paroli et al., 2018). Although psychological factors are associated with treatment outcomes, empirical studies cannot easily identify who will succeed or fail with neuromodulation treatment (Paroli et al., 2018). Nevertheless, there is consensus (Doleys & Cianfrini, 2018; Gybels et al., 1998) that patients seeking neuromodulation should undergo comprehensive psychological assessment and, where indicated, a course of psychological assistance both before and after treatment. Preimplantation input may be required to address issues such as mood, coping, substance misuse and relapse prevention as identified in the assessment; and/or provide psychoeducation or motivational interviewing for compliance (Beltrutti et al., 2004; Doleys & Cianfrini, 2018). Post implantation input can help monitor treatment response and behavioural adaptation, facilitating timely intervention to address any psychological and social difficulties that arise which could adversely impact longer-term outcomes (Beltrutti et al., 2004; Doleys & Cianfrini, 2018).

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Appendix 3: Applications and digital supports for pain management

E-health resources include websites, social media, phone apps, chat rooms and on-line forums. There are applications (apps) that assist with self-monitoring of pain and overall health which can be shared with treating health professionals. An up-to-date listing of relevant apps can be found here: painaustralia.org.au/find-support/tools-and-resources/painaustralia-apps. However, it should be noted that there are few apps that have been validated for clinical use or pain self-management, or that have been developed with clinician input/support (Devan, Farmery, Peebles, & Grainger, 2019; Zhao, Yoo, Lancey, & Varghese, 2019). Interested parties should be conscious of these limitations when recommending or using apps for pain management.