

**Supplementary Material**

**A technology-enabled collaborative learning model (Project ECHO) to upskill primary care providers in best practice pain care**

*Simone De Morgan<sup>A,\*</sup>, Pippy Walker<sup>A</sup>, Fiona M. Blyth<sup>B</sup>, Anne Daly<sup>C,D</sup>, Anne L. J. Burke<sup>E,F,G</sup>, and Michael K. Nicholas<sup>H</sup>*

<sup>A</sup> Menzies Centre for Health Policy and Economics, School of Public Health, Faculty of Medicine and Health, The University of Sydney, Charles Perkins Centre D17, Camperdown, NSW 2006, Australia.

<sup>B</sup> School of Public Health, Faculty of Medicine and Health, The University of Sydney, Edward Ford Building A27, Camperdown, NSW 2006, Australia.

<sup>C</sup> The Transport Accident Commission, Geelong, Vic, Australia.

<sup>D</sup> WorkSafe Victoria, Geelong, Vic, Australia.

<sup>E</sup> Chronic Pain Statewide Clinical Network, Commission on Excellence and Innovation in Health, Adelaide, SA, Australia.

<sup>F</sup> Psychology Department, Central Adelaide Local Health Network, Adelaide, SA, Australia.

<sup>G</sup> School of Psychology, Faculty of Health and Medical Sciences, The University of Adelaide, Adelaide, SA, Australia.

<sup>H</sup> Pain Management Research Institute, The University of Sydney, Ground Floor, Douglas Building, Royal North Shore Hospital, St Leonards, Sydney, NSW 2065, Australia.

\*Correspondence to: Simone De Morgan Menzies Centre for Health Policy and Economics, School of Public Health, Faculty of Medicine and Health, The University of Sydney, Charles Perkins Centre D17, Camperdown, NSW 2006, Australia Email: [simone.demorgan@sydney.edu.au](mailto:simone.demorgan@sydney.edu.au)

## Outcomes of the SA Chronic Pain ECHO Network

Theme Evaluation question		Subthemes	Supporting evidence - <i>satisfaction survey after each ECHO session (n=106 across the ECHO series), case presenters survey (n=7) and outcome survey after the ECHO series (n=11)</i>	
			Quantitative	Qualitative
<b>Level 2 – Satisfaction</b>				
a)	<b>Relevance</b>  <b>Was the ECHO Network perceived by healthcare professionals as relevant to practice?</b>	<b>Subtheme</b>  High level of satisfaction with the relevance to practice	<ul style="list-style-type: none"> <li>➤ Almost all respondents of the satisfaction survey thought that the ECHO sessions were relevant to their practice (average across the series of 10 sessions = 99%)</li> <li>➤ The vast majority of respondents of the satisfaction survey thought that the ECHO sessions had met their learning needs (average across the series of 10 sessions = 95%)</li> </ul>	<p><i>“Thank you... It was very informative and helpful. Definitely chronic pain sessions were one of the best among SAPMEA learning opportunities.”</i> [hcp, outcome survey]</p> <p><i>“I liked receiving suggestions from the different experts present. This will give me ideas about how I can help my patient further.”</i> [case presenter survey]</p> <p><i>“It is clear, detailed and actionable.”</i> [case presenter survey]</p>
b)	<b>Satisfaction with the ECHO format</b>  <b>Were healthcare professionals satisfied with the format and content of the ECHO Network and was the network considered a ‘value-add’ compared to other education programs?</b>	<b>Subtheme</b>  High level of satisfaction with the ECHO format	<ul style="list-style-type: none"> <li>➤ The vast majority of respondents of the satisfaction survey thought that the ECHO (didactic and case study) added value compared to other didactic education formats (ECHO session 1-9: average across the series of 9 sessions = 91%)</li> <li>➤ All respondents of the satisfaction survey thought that ECHO session 10 (didactic and Q &amp; A) added value compared to other didactic education formats</li> <li>➤ The vast majority of respondents of the satisfaction survey thought the ECHO format (didactic and case study) will assist them to integrate learnings into their practice more than other didactic education formats (ECHO session 1-9) (average across the series of 9 sessions = 87%)</li> <li>➤ All respondents of the satisfaction survey thought ECHO session 10 (didactic and Q &amp; A) will assist them to integrate learnings into their practice more than other didactic education formats</li> </ul>	<p><i>“ECHO sessions absolutely fantastic. Such a great way to learn. Thank you.”</i> [hcp, satisfaction survey]</p> <p><i>“Excellent speakers and MC, great content and ability to interact. Thank you.”</i> [hcp, satisfaction survey]</p> <p><i>“It was great, I was so glad that I got the opportunity to present to a multidisciplinary team of specialists.”</i> [case presenter survey]</p> <p><i>“I think the sessions have been run extremely well. The format is great and the “sticking” to time is just fantastic. The ability to interact with specialists is fantastic.”</i> [hcp, satisfaction survey]</p>
		<b>Subtheme</b>	<ul style="list-style-type: none"> <li>➤ The vast majority of respondents of the satisfaction survey were able to use the ZOOM technology without</li> </ul>	-

		<p>High level of satisfaction with the online learning format</p> <p>any problem (average across the series of 10 sessions = 90%)</p> <ul style="list-style-type: none"> <li>➤ The vast majority of respondents of the satisfaction survey thought the online learning format is more accessible to them than a face-to-face format (average across the series of 10 sessions = 93%)</li> <li>➤ The vast majority of respondents of the satisfaction survey thought that the duration of the ECHO sessions was feasible for them to attend (i.e., not too long) (average across the series of 10 sessions = 94%)</li> </ul>	
	<p><i>Subtheme</i></p> <p>High level of satisfaction with information about resources</p>	<ul style="list-style-type: none"> <li>➤ The vast majority of respondents of the satisfaction survey thought that they had learnt about resources for further information or to use with patients (average across the series of 10 sessions = 89%)</li> <li>➤ All respondents of the outcome survey after the series ended thought that the resources discussed in the ECHO sessions and listed on the SAPMEA website were useful</li> </ul>	<p><i>"[Improved] knowledge of available resources for personal and client use."</i> [hcp, outcome survey]</p> <p><i>"[Key learnings are to] utilise resources more and develop handy list to access quickly."</i> [hcp, satisfaction survey]</p>
	<p><i>Subtheme</i></p> <p>Aspects of the format and content not liked by some healthcare professionals</p>	<ul style="list-style-type: none"> <li>➤ Some healthcare professionals thought the ECHO series was too long</li> <li>➤ Some healthcare professionals commented on the complexities and length of some of the cases which negatively impacted on their learning</li> <li>➤ One healthcare professional commented on the lack of useful strategies provided by the Hub for the refugee case study</li> <li>➤ One healthcare professional commented on the lack of a sense of community due to many participants not using their camera/video in the ECHO sessions</li> </ul>	<p><i>"The format for individual sessions was great but the number of sessions overall I felt was a lot. I wanted to attend another ECHO but could not afford to have another evening taken away from family time to attend."</i> [hcp, satisfaction survey]</p> <p><i>"I felt that the extremely complicated nature of some of the case studies distracted from the ability to apply the learnings in some cases."</i> [hcp, outcome survey]</p> <p><i>"I felt that the case study was not really discussed in a helpful way that gave the presenter any strategies to help with her questions around accessing pain education programs that would be suitable for her unique client group Survivors of Torture and Trauma Assistance and Rehabilitation Service (STTARS)."</i> [hcp, satisfaction survey]</p> <p><i>"I find it perplexing that so few of the attendees use video - is that because they don't have it - or that they are choosing not to? It would make it much more collegial if they could use it."</i> [hcp, satisfaction survey]</p>
c)	<b>Mentorship environment</b>	<p><i>Subtheme</i></p> <ul style="list-style-type: none"> <li>➤ The vast majority of the respondents of the satisfaction survey thought the ECHO hub panel created a positive, non-judgemental, and encouraging environment for</li> </ul>	<p><i>"It was incredibly validating. Huge amount of information. Very grateful to the support I have been given."</i> [case presenter survey]</p>

	<p><b>Did healthcare professionals perceive the mentorship environment in the ECHO Network as positive?</b></p>	<p>High level of satisfaction with the mentorship environment</p>	<p>healthcare professionals to present a case and contribute to the discussion (average across the series of 10 sessions = 96%)</p> <ul style="list-style-type: none"> <li>➤ The vast majority of respondents of the satisfaction survey liked learning with other healthcare professionals with an interest in chronic pain (average across the series of 10 sessions = 93%).</li> <li>➤ The vast majority of respondents of the outcome survey after the ECHO series thought the SA Chronic Pain ECHO Network provided professional support (n=9; 90%); and made them feel like they were part of a community of practitioners who share common interests and concerns related to pain management (n=9; 90%).</li> </ul>	<p><i>"I don't know of another forum in which I could have received this support. I have a management pathway with various options depending on the patient's response and it is specific to my patient."</i> [case presenter survey]</p> <p><i>"I felt very listened to and respected. It was very empowering."</i> [case presenter survey]</p> <p><i>"Very supportive from the team."</i> [case presenter survey]</p> <p><i>"[I have] increased awareness of what is out there. Also, that I was not alone in managing this complex issue for patients."</i> [hcp, outcome survey]</p> <p><i>"Ongoing reference source of practitioners and reference materials for use and referral when needed."</i> [hcp, outcome survey]</p>
<p><b>Level 3 - Learning</b></p>				
<p>a)</p>	<p><b>Perceived knowledge gain</b></p> <p><b>Did the ECHO Network improve self-perceived knowledge related to best practice pain care?</b></p>	<p><i>Subtheme</i></p> <p>Self-reported improvements in knowledge</p>	<ul style="list-style-type: none"> <li>➤ The vast majority of respondents of the satisfaction survey thought that the ECHO session(s) they attended had met their learning needs for this topic (average across the 10 ECHO sessions = 95%).</li> <li>➤ The vast majority of respondents of the satisfaction survey thought that they had learnt about the multidisciplinary and biopsychosocial approach to pain management (average across the 10 ECHO sessions = 97%); and self-management and non-pharmacological strategies to use with patients with chronic pain (average across the 10 ECHO sessions = 90%)</li> <li>➤ All respondents of the outcome survey after the series thought the ECHO Network had improved their knowledge about the multidisciplinary and biopsychosocial approach to pain management; and self-management and non-pharmacological strategies to use with patients with chronic pain (n=11; 100%)</li> </ul>	<p><i>"The chronic pain ECHO has updated my knowledge, and it was one of the best of the ECHO series."</i> [hcp, outcome survey]</p> <p><i>"[I have improved] knowledge of available resources for personal and client use."</i> [hcp, outcome survey]</p> <p><i>"[I have improved] knowledge of potential referral sources (other local practitioners)."</i> [hcp, outcome survey]</p> <p><i>"So many older patients seek help with sleep issues associated with chronic pain and knowing what might work can then be applied to their issues."</i> [hcp, satisfaction survey]</p> <p><i>"The shift is to use language to increase safety message and decreasing threatening message. Positive descriptive language used when discussing X Ray findings, some of these were new to me."</i> [hcp, satisfaction survey]</p>
<p>b)</p>	<p><b>Key learnings</b></p> <p><b>What were the most prevalent key learnings for</b></p>	<p><i>Subthemes</i></p> <ul style="list-style-type: none"> <li>• Incorporating psychological into pain care including addressing mental health issues, teaching patients psychological self-management strategies, referring to clinical psychologists if required.</li> </ul>	<p><i>"[Key learnings for me are] asking the patient to contribute more i.e., listen more than talk. Make sure the patient understands clearly and reduce fear."</i> [hcp, satisfaction survey]</p>	

	<b>healthcare professionals from the ECHO Network?</b>	<ul style="list-style-type: none"> <li>Incorporating social approaches into pain care including promoting social connection and community groups.</li> </ul>	<p><i>"[Key learnings for me are] overwhelming importance of mental health in chronic pain management."</i> [hcp, satisfaction survey]</p> <p><i>"[Key learnings for me are] that the biomedical, psychological and social situations of a patient are all recognised elements of chronic pain management rather than just the biomedical side."</i> [hcp, satisfaction survey]</p>	
c)	<b>Attitudes towards patients</b>  <b>Did the ECHO Network change attitudes towards people living with chronic pain with greater understanding of the importance of patient-centred care</b>	<b>Subtheme</b>  Better understanding of patient-centred communication and validating the patient experience	<ul style="list-style-type: none"> <li>The vast majority of respondents of the satisfaction survey thought they had learnt about the importance of a patient centred approach for people with chronic pain e.g., empathic listening and validation (average across the series of 10 sessions = 91%).</li> <li>The vast majority of respondents of the outcome survey thought the ECHO Network impacted their attitudes towards people living with chronic pain (n=9; 90%)</li> </ul>	<p><i>"Pain is invisible symptoms, so it is best to trust my patient when they are in severe pain and do my ultimate treatment. Patient care and satisfaction should be the first priority."</i> [hcp, outcome survey]</p> <p><i>"[I have a better understanding of the] perspectives of problems clients face"</i> [hcp, outcome survey]</p> <p><i>"I will incorporate a different language strategy and be more mindful of how I ask questions."</i> [hcp, satisfaction survey]</p> <p><i>"[I have a] greater understanding of the systemic difficulties involved in accessing care."</i> [hcp, outcome survey]</p>
d)	<b>Attitudes towards other healthcare professionals</b>  <b>Did the ECHO Network change attitudes towards other healthcare professional disciplines involved in pain care with greater understanding of multidisciplinary team-based care?</b>	<b>Subtheme</b>  Better understanding of multidisciplinary team-based care	<ul style="list-style-type: none"> <li>The vast majority of respondents of the satisfaction survey liked the range of views and experiences from the different professional disciplines in the multidisciplinary hub panel and from participating health professionals (average across the 10 ECHO sessions = 97%).</li> <li>The vast majority of respondents of the satisfaction survey thought they had learnt about the multidisciplinary and biopsychosocial approach to pain management (average across the 10 ECHO sessions = 97%).</li> <li>More than half of respondents of the outcome survey thought the ECHO Network had impacted their attitudes towards the role of other health professional disciplines in managing people with chronic pain (n=6; 60%)</li> </ul>	<p><i>"[I have a] better understanding of the way in which different practitioners can contribute and work together."</i> [hcp, outcome survey]</p> <p><i>"Chronic pain is complicated, and I don't know everything but can reach out to others to get ideas."</i> [hcp, satisfaction survey]</p> <p><i>"[I learnt the importance of the] use of physiotherapist and pain psychologist."</i> [hcp, outcome survey]</p> <p><i>"[I have] increased awareness of having communication channels with GP/psychologist to assist in chronic pain management."</i> [hcp, outcome survey]</p>
<b>Level 4 – Competence (self-confidence)</b>				
a)	<b>Confidence</b>  <b>Did the ECHO Network improve confidence related</b>	<b>Subtheme</b>	<ul style="list-style-type: none"> <li>All respondents of the outcome survey thought the ECHO Network had improved their confidence to manage patients with chronic pain; to help people make sense of their pain from a biopsychosocial perspective; and to use</li> </ul>	<p><i>"It was incredibly validating. Huge amount of information. Very grateful to the support I have been given."</i> [case presenter survey]</p>

	<b>to best practice pain care?</b>	Improvements in confidence related to best practice pain care	a patient centred approach with people with chronic pain (e.g., empathetic listening and validation) (n=11; 100%)	<i>"I feel confident to 'prescribe' connecting with others as one of the non-pharmacological treatments for chronic pain."</i> [hcp, outcome survey]
<b>Level 5 – Performance</b>				
a)	<b><i>Intention to change practice</i></b> <b>Did healthcare professionals intend to change their practice after participation in the ECHO Network?</b>	<b><i>Subthemes</i></b> <ul style="list-style-type: none"> <li>• Learning about the whole person</li> <li>• Validating the patient experience</li> <li>• Gathering history around all three elements (biomedical, social and psychological)</li> <li>• Using appropriate language and messaging to reduce pain catastrophising</li> <li>• Addressing mental health issues</li> <li>• Teaching patients self-management strategies</li> <li>• Referral to allied health - clinical psychologists and physiotherapists</li> <li>• Promoting social connection and community groups</li> <li>• Using the consumer and health professional resources recommended</li> <li>• Changing the type of medications prescribed for pain management</li> </ul>	<ul style="list-style-type: none"> <li>➤ The majority of the respondents of the case presenter survey thought the input they received about their patient from the expert panel or the participating health professionals will change their management of the patient (n= 5; 83%)</li> <li>➤ The vast majority of respondents of the satisfaction survey thought they would use their learnings in their clinical practice with patients with chronic pain: 61% (average percentage across the 10 ECHO sessions) thought it was extremely likely they would use their learnings from the ECHO session(s) in their clinical practice with patients with chronic pain; and 36% thought it was likely (average percentage across the 10 ECHO sessions)</li> <li>➤ All GP survey respondents (n= 6) of the outcome survey after the series thought that the ECHO Network increased their intention to reduce opioid prescribing (either amount or frequency).</li> </ul>	<p><i>"So many new ideas were floated, and I will be discussing this with my patient e.g., use of low-cost physio via COTA, using Uni clinics for EP, physio, psyche, redoing a mental health care plan for referral to new eyes."</i> [case presenter survey]</p> <p><i>"The language around ensuring it being painful but not dangerous is something I can incorporate into my practice."</i> [hcp, satisfaction survey]</p> <p><i>"[I intend to] be selective with my language - empowering my patients through my communications."</i> [hcp, satisfaction survey]</p> <p><i>"I will incorporate a different language strategy and be more mindful of how I ask questions."</i> [hcp, satisfaction survey]</p> <p><i>"I will emphasise the value in managing psychological stressors that add to the pain experience and encourage clients to discuss such issues with their GP for consideration of psych referral if warranted."</i> [hcp, satisfaction survey]</p> <p><i>"[I intend to] keep asking: What is the condition now? Is it predominantly depression now - or health anxiety. Start talking about peer support."</i> [hcp, satisfaction survey]</p> <p><i>"[I intend to] continue to emphasise non-pharmacological measures with increased authority."</i> [hcp, satisfaction survey]</p> <p><i>"Ensuring that I gather history around all three elements (biomedical, social and psychological) rather than just the diagnosis so I can hand this information over to the treating clinician."</i> [hcp, satisfaction survey]</p> <p><i>"[I intend to] get patients to make their plans themselves with help."</i> [hcp, satisfaction survey]</p> <p><i>"[I intend to make] early referral to physiotherapist."</i> [hcp, satisfaction survey]</p> <p><i>"[I intend to] utilise [the hcp and consumer] resources more and develop handy list to access quickly."</i> [hcp, satisfaction survey]</p>

		<ul style="list-style-type: none"> <li>• Intention to reduce their opioid prescribing</li> </ul>		<p><i>"[I intend to] change the way I prescribe Pregabalin and use alternative and safer option."</i> [hcp, satisfaction survey]</p> <p><i>"X [Hub panel member's] way of explaining to his patients to taper [opioids] was great, I will use this language in my consulting."</i> [hcp, satisfaction survey]</p> <p><i>"[I intend] to search for psychological patient support including online if face- to-face is unavailable."</i> [hcp, satisfaction survey]</p>
b)	<p><b>Perceived practice change</b></p> <p><b>What were healthcare professionals self-perceived practice changes after participation in the ECHO Network?</b></p>	<p><i>Subthemes</i></p> <ul style="list-style-type: none"> <li>• Increased GP referrals to allied health practitioners for pain management</li> <li>• Encouraging social connection and psychological support</li> <li>• Referring to peer support and university allied health services (for patients with cost barriers)</li> <li>• Use of the consumer and health care professional resources</li> </ul>	<ul style="list-style-type: none"> <li>➤ The vast majority of GP respondents of the outcome survey after the series (n= 5 from 6 GPs) thought that the ECHO Network increased their referrals to allied health practitioners for pain management</li> <li>➤ The vast majority of GP respondents of the outcome survey after the series (n= 5 from 6 GPs) thought that the ECHO Network decreased their opioid prescribing (either amount or frequency)</li> </ul>	<p><i>"Firstly, I am recognising that some patients I have seen for years are chronic pain patients. Identifying this is very helpful. I'm already practicing including some of the learnings about chronic pain management into these patients care plans."</i> [hcp, satisfaction survey]</p> <p><i>"I now encourage patients to treat their PTSD / depression / anxiety because they experience more pain if their mental health is poor."</i> [hcp, outcome survey]</p> <p><i>"I [now] encourage my patients to connect with others because when we connect, we feel happier, and this results in decreasing pain levels."</i> [hcp, outcome survey]</p> <p><i>"The information I received from the panel allowed me to encourage my patient to re-engage in psychological supports and to consider volunteering as a gardener in the community garden."</i> [case presenter, outcome survey]</p> <p><i>"It definitely did [change the management of my patient]. I was not aware of the resources available for the patient e.g., COTA, physio services from universities because cost is the main issue for most older adults who suffer from chronic pain."</i> [case presenter, outcome survey]</p>

hcp = healthcare professional. Moore et al *An Outcome Framework for Planning and Assessing Continuing Medical Education (CME)* was used to inform the evaluation questions in this study.

# APPENDIX S1: ONLINE SURVEYS

**A. Satisfaction surveys**

**B. Outcome survey**

**C. Case presenters survey**





## Survey Introduction

### Project ECHO Satisfaction Survey

The -----is conducting an evaluation study of the Chronic Pain ECHO Network.

This survey aims to understand whether you liked the content and format of the session, whether the session was relevant to your practice, your learning from the session, and any suggestions for improvement. This survey is voluntary and will take approximately 5-10 minutes to complete.

**As the survey is voluntary you can exit at any time without completing the survey. Please read the attached Participant Information Sheet for more information.**

**Have you read and understood the Participant Information Sheet (see attached)?**

Yes

## Your attendance in Project ECHO series

### Your most recent attendance in this Project ECHO series.

1. Which ECHO session did you attend? Please select the ONE session that you just attended:

- July 18 - Chronic pain management fundamentals - the biopsychosocial model of pain
- Aug 1 - Explaining pain to patients - language, messaging and helping reduce pain catastrophising
- Aug 15 - Psychosocial strategies and self-management approaches to pain management
- Aug 29 - Physical Therapies and activity pacing
- Sept 12 - Types of Chronic pain with a focus on neuropathic pain & CRPS
- Sept 26 - Low back pain
- Oct 10 - Safe and effective use of medicines for chronic pain
- Oct 24 - Strategies to support opioids tapering in people with chronic pain
- Nov 7 - Secondary prevention of chronic pain in the pre/post-surgery and post-injury phase
- Nov 21 - Sleep management

**The next questions are about you.**

**The next questions are about you.**

2. What is your profession(s)?

- GP
- Nurse or Nurse Practitioner
- Exercise Physiologist
- Occupational Therapist
- Osteopath
- Chiropractor

- Pharmacist
- Physiotherapist
- Psychologist
- Social worker
- Sports physician
- Other

2a. Please describe your profession.

3. How many years have you been in practice?

- <2 years
- 2-5 years
- 6-10 years
- >10 years

4. How many patients with chronic pain have you managed in the past 12 months?

- 0
- <5
- 5-10
- 11-30
- >30

5. How many patients with workplace injuries managed under the workers compensation scheme have you managed in the past 12 months?

- 0
- <5
- 5-10
- 11-30
- >30

6. Is your primary work location classified as:

- Metropolitan SA
- Regional SA
- Remote SA

7. Would your primary work environment be described as:

- Solo practice
- Team of practitioners from the same clinical discipline
- Multidisciplinary team of practitioners

**The next question is about the format of the ECHO session.**

**The next question is about the format of the ECHO session.**

8. Please indicate if you agree or disagree with the following statements:

Strongly agree	Agree	Neither agree nor disagree	Disagree	Strongly disagree
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	Strongly agree	Agree	Neither agree nor disagree	Disagree	Strongly disagree
A. I liked the ECHO session format i.e., a didactic presentation followed by a case discussion	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
B. I thought that the ECHO session including the case study added value compared to other didactic education sessions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
C. I thought the ECHO session format including the case study will assist me to integrate learnings into my practice, more than other didactic education formats	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
D. The duration of the ECHO session was feasible for me to attend (i.e., not too long)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
E. There was enough opportunity to contribute to the discussion	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
F. I was able to use the Zoom technology without any problem	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
G. The online learning format is more accessible to me than a face-to-face format	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
H. The ECHO Hub panel created a positive, non-judgemental, and encouraging environment for health professionals to present a case and contribute to the discussion	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

	Strongly agree	Agree	Neither agree nor disagree	Disagree	Strongly disagree
I. I liked the range of views and experiences from the different professional disciplines in the multidisciplinary hub panel and from participating health professionals	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
J. I liked learning with other health professionals with an interest in chronic pain	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**The next question is about the learning from the ECHO session**

**The next questions are about the learning from the ECHO session.**

9. Please indicate if you agree or disagree with the following statements:

	Strongly agree	Agree	Neither agree nor disagree	Disagree	Strongly disagree
A. The ECHO session was relevant to my practice	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
B. I learnt or refreshed something that will be useful when caring for my patients with chronic pain	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
C. I learnt about resources for further information or to use with patients	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
D. I learnt about the multidisciplinary and biopsychosocial approach to pain management	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

	Strongly agree	Agree	Neither agree nor disagree	Disagree	Strongly disagree
E. I learnt about self-management and non-pharmacological strategies to use with patients with chronic pain	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
F. I learnt about chronic pain referral networks and when and who to refer patients with chronic pain to	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
G. I learnt about the importance of a patient centred approach for people with chronic pain e.g., empathic listening and validation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
H. I think attending this ECHO session will improve the quality of my care that I provide to my patients with chronic pain	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I. Overall, this ECHO session met my learning needs for this topic	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

10. Please describe ONE or TWO key learnings that you have taken away from the ECHO session.

**The next question is about intentions to apply learnings to clinical practice.**

**The next questions are about your intention to apply the learnings to your clinical practice.**

11. How likely are you to use your learnings from this ECHO session in your clinical practice with patients with chronic pain?

- Extremely likely
- Likely
- Neutral/don't know
- Unlikely
- Extremely unlikely

12. Please describe ONE or TWO ways that you intend to apply the learnings to change your clinical practice.

**The next question is about potential barriers to changing your practice.**

13. Are there any systems-based issues that might prevent you from applying your new learning into practice? *Think about your particular practice setting, the wider health services and health system, government policies, MBS reimbursement, and other factors.*



- Yes
- No
- Unsure

13a. If yes, please describe the systems-based issues(s) and comment on any solutions that you think might address these issue(s).

14. Do you have any further comments about the format or content of the ECHO session or suggestions for improvements?



## Survey Introduction

### Project ECHO Case Presenters Survey

The \_\_\_\_\_ is conducting an evaluation study of the Chronic Pain ECHO Network.

This survey aims to understand your experience of presenting a case, your satisfaction with the support to prepare a case, the value of the feedback and the potential impact of the panel feedback about your case on your practice. This survey is voluntary and will take approximately 5-10 minutes to complete.

**Please read the attached Participant Information Sheet for more information.**

**Have you read and understood the Participant Information Sheet (see attached)?**

Yes

## The next questions are about you

### Firstly, some questions about you.

1. What is your profession(s)?

- GP
- Nurse or Nurse Practitioner
- Exercise Physiologist
- Occupational Therapist
- Osteopath
- Chiropractor
- Pharmacist
- Physiotherapist
- Psychologist
- Social worker
- Sports physician
- Other

1a. Please describe your profession

2. How many years have you been in practice?

- <2 years
- 2-5 years
- 6-10 years
- >10 years

3. Is your primary work location classified as:

- Metropolitan SA
- Regional SA
- Remote SA

4. Would your primary work environment be described as:

- Solo practice
- Team of practitioners from the same clinical discipline
- Multidisciplinary team of practitioners

**The next questions are about your experience of presenting a case**

**The next questions are about your experience of presenting a case.**

5. How would you describe your experience of presenting a case at the Chronic Pain ECHO (i.e., what did you like and/or dislike about presenting a case)?

6. Please indicate if you agree or disagree with the following statements:

	Strongly agree	Agree	Neither agree nor disagree	Disagree	Strongly disagree
A. I am satisfied with the level of support I received to develop the case for presentation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
B. I valued receiving input from the expert panel members about my patient	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
C. I valued the discussion from the participating health professionals about my patient	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
D. I think the input I received from the expert panel and the participating health professionals about my patient will improve the quality of care to the patient	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
E. The ECHO Hub panel created a positive, non-judgemental, and encouraging environment to present a case	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

7. Do you have any suggestions for improvements in the support provided to you prior to the ECHO session to present a case?

Please indicate if you agree or disagree with the following statement:

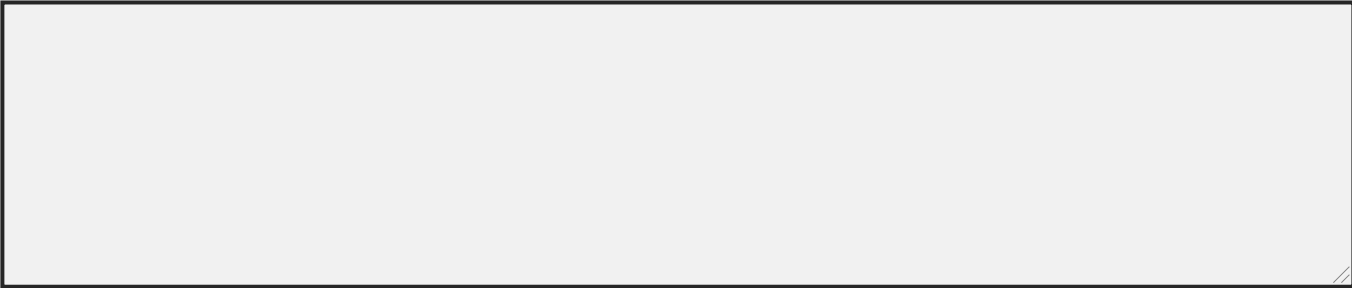
8. The input I received about my patient from the expert panel or the participating health professionals will change my management of the patient.

- Strongly agree
- Agree
- Neither agree nor disagree
- Disagree
- Strongly disagree

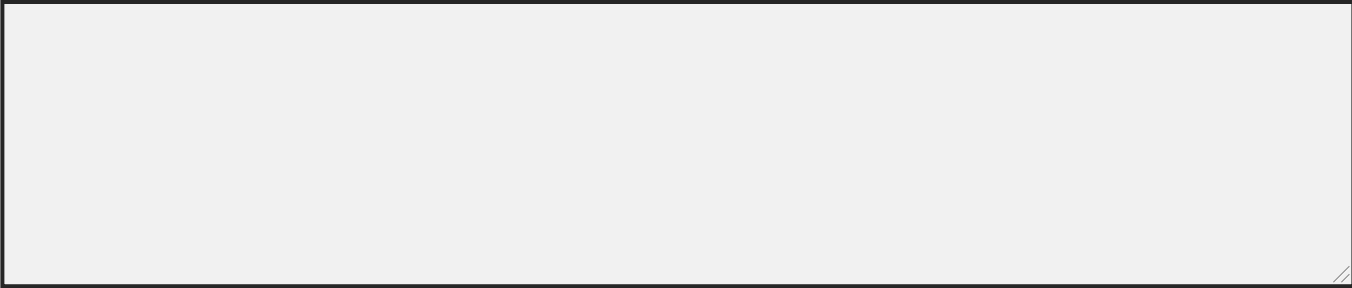
8a. Please describe how the input you received about your patient from the expert panel or the participating health professionals will change your management of the patient.

9. Please describe if there were some aspects of the feedback provided by the expert panel that may not be suitable to your patient, or whether you

thought there was conflicting feedback from panel members:

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10. Do you have any further comments?

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## **Survey Introduction**

### **Project ECHO Outcome Survey**

The \_\_\_\_\_ is conducting an evaluation study of the Chronic Pain ECHO Network.

This survey aims to understand the impact of participation in the Chronic Pain ECHO network on you and your practice, and the importance of sustaining the program (as an ongoing program). This survey is voluntary and will take approximately 10 minutes to complete.

**Please read the attached Participant Information Sheet for more information.**

**Have you read and understood the Participant Information Sheet (see attached)?**

Yes



## Your attendance in the Project ECHO series.

1. Which ECHO session(s) did you attend? Please select ALL the sessions you have attended:

- July 18 - Chronic pain management fundamentals - the biopsychosocial model of pain
- Aug 1 - Explaining pain to patients - language, messaging and helping reduce pain catastrophising
- Aug 15 - Psychosocial strategies and self-management approaches to pain management
- Aug 29 - Physical Therapies and activity pacing
- Sept 12 - Types of Chronic pain with a focus on neuropathic pain & CRPS
- Sept 26 - Low back pain
- Oct 10 - Safe and effective use of medicines for chronic pain
- Oct 24 - Strategies to support opioids tapering in people with chronic pain
- Nov 7 - Secondary prevention of chronic pain in the pre/post-surgery and post-injury phase
- Nov 21 - Sleep management

2. Did you present a case during the Chronic Pain ECHO series?

- Yes
- No

**The next questions are about you**

**The next questions are about you.**

3. What is your profession(s)?

- GP

- Nurse or Nurse Practitioner
- Exercise Physiologist
- Occupational Therapist
- Osteopath
- Chiropractor
- Pharmacist
- Physiotherapist
- Psychologist
- Social worker
- Sports physician
- Other

3a. Please describe your profession.

4. How many years have you been in practice?

- <2 years
- 2-5 years
- 6-10 years
- >10 years

5. How many patients with chronic pain have you managed in the past 12 months?

- 0
- <5
- 5-10

- 11-30
- >30

6. How many patients with workplace injuries managed under the workers compensation scheme have you managed in the past 12 months?

- 0
- <5
- 5-10
- 11-30
- >30

7. Is your primary work location classified as:

- Metropolitan SA
- Regional SA
- Remote SA

8. Would your primary work environment be described as:

- Solo practice
- Team of practitioners from the same clinical discipline
- Multidisciplinary team of practitioners

**impact on knowledge and confidence**

**The next questions are about the impact of participating in the Chronic Pain ECHO Network on your knowledge and confidence.**

9. Please indicate if you agree or disagree with the following statements:

	Strongly agree	Agree	Neither agree nor disagree	Disagree	Strongly disagree
A. The Chronic Pain ECHO has improved my knowledge about the multidisciplinary and biopsychosocial approach to pain management	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
B. The Chronic Pain ECHO has improved my knowledge about self-management and non-pharmacological strategies to use with patients with chronic pain	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
C. The Chronic Pain ECHO has improved my knowledge about chronic pain referral networks and when and who to refer patients with chronic pain to	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
D. The Chronic Pain ECHO met my learning needs related to chronic pain	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
E. The Chronic Pain ECHO has improved my confidence to manage patients with chronic pain	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
F. The Chronic Pain ECHO has improved my confidence about how to help people make sense of their pain from a biopsychosocial perspective	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Strongly agree      Agree      Neither agree nor disagree      Disagree      Strongly disagree

G. The Chronic Pain ECHO has improved my confidence about using a patient centred approach with people with chronic pain e.g., empathic listening and validation

H. The Chronic Pain ECHO has enabled me to integrate learnings into my practice and improve patient outcomes

10. Do you have any comments or ONE example of how the Chronic Pain ECHO has impacted your knowledge or confidence?

**The next question is about the resources discussed in the ECHO sessions or listed on the Chronic Pain ECHO website.**

11. Did you find any of the resources discussed in the ECHO sessions or listed on the Chronic Pain ECHO website useful?

- Yes
- No
- Unaware of resources

11a. If yes, please name ONE resource that you found useful and how you used it.

### impact on practice

The next questions are about the impact of participating in the Chronic Pain ECHO Network on your practice.

12. Please indicate if you agree or disagree with the following statements:

	Strongly agree	Agree	Neither agree nor disagree	Disagree	Strongly disagree
A. The Chronic Pain ECHO has improved the quality of care that I provide to my patients with chronic pain	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
B. The Chronic Pain ECHO has increased my encouragement to patients to learn and adopt an active self-management program and non-pharmacological strategies for pain management	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Strongly agree      Agree      Neither agree nor disagree      Disagree      Strongly disagree

C. The Chronic Pain ECHO has helped me to improve my language and communication skills in explaining concepts to patients in a variety of ways to assist me in tailoring effective communication approaches

13. Please provide ONE or TWO examples of how the Chronic Pain ECHO has impacted your practice or impacted your patients:

**GPs only**

14. Please indicate if you agree or disagree with the following statements:

Strongly agree      Agree      Neither agree nor disagree      Disagree      Strongly disagree

A. The Chronic Pain ECHO has increased my referrals to allied health practitioners for pain management

	Strongly agree	Agree	Neither agree nor disagree	Disagree	Strongly disagree
B. The Chronic Pain ECHO has decreased my opioid prescribing (either amount or frequency)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
C. The Chronic Pain ECHO has increased my intention to reduce opioid prescribing (either amount or frequency)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

## Case presenters

15. Please reflect on your experience of presenting a case and describe whether the input you received about your patient from the expert panel, or the participating health professionals, changed your management of the patient, and if so, how?

## Block 7

**The next question is about potential barriers to changing your practice.**

16. Are there any systems-based issues that might prevent you from applying your new learning into practice? *Think about your particular*



*practice setting, the wider health services and health system, government policies, MBS reimbursement, and other factors.*

- Yes
- No
- Unsure

16a. If yes, please describe the systems-based issue(s) and comment on any solutions that you think might address these issues(s).

**The next questions are about the impact of participating in the Chronic Pain ECHO Network on attitudes towards chronic pain patients and other health professional disciplines.**

17. Do you think participating in the Chronic Pain ECHO Network has affected your attitude towards people living with chronic pain?

- Yes
- No

17a. If Yes, please describe (any positive or negative changes in attitudes):

18. Do you think participating in the Chronic Pain ECHO Network has affected your attitude towards the role of other health professional disciplines in managing people living with chronic pain?

- Yes
- No

18a. If Yes, please describe (any positive or negative changes in attitudes):

## Block 8

**The next questions are about participating in a community of practice.**

19. Please indicate if you agree or disagree with the following statements:

Strongly agree	Agree	Neither agree nor disagree	Disagree	Strongly disagree
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	Strongly agree	Agree	Neither agree nor disagree	Disagree	Strongly disagree
A. The Chronic Pain ECHO Network provided professional support	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
B. The Chronic Pain ECHO Network made me feel like I was a part of a community of practitioners who share common interests and concerns related to pain management	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
C. The Chronic Pain ECHO Network has improved my professional networks related to pain management	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

20. Do you have any comments about how the Chronic Pain ECHO has improved your professional support or professional networks?

## Block 9

**The next question is about the importance of sustaining the Chronic Pain ECHO (as an ongoing Community of Practice).**

21. Do you think the Chronic Pain ECHO should be sustained as an ongoing Community of Practice if resources to do so are available?

- Yes
- No

21a. If Yes, what do you think would be the benefit of an ongoing community of practice focusing on chronic pain for you and/or other health care professionals?

21b. If Yes, do you have any ideas about the type of ongoing community of practice that would be best for you (e.g., in the current format as a didactic followed by a case presentation, or an online support group with a facilitator, or a Facebook page or other idea)?

**Any other comments?**

22. Do you have any further comments about the Chronic Pain ECHO,

suggestions for improvements, or would you like to comment on any negative consequences you experienced participating in the Chronic Pain ECHO?



# APPENDIX S2: ONLINE SURVEYS

**A. Satisfaction surveys**

**B. Outcome survey**

**C. Case presenters survey**

## Appendix S2: response rates for online surveys

### A. Satisfaction surveys

- Number of respondents of the satisfaction surveys after each ECHO session: n=106 across the ECHO series of 10 sessions
- Average response rate = 46%, see table below.

*Response rate for satisfaction surveys (n=106) from the SA Chronic Pain ECHO network*

<b>ECHO session</b>	<b>Number of participants</b>	<b>Number of satisfaction survey respondents</b>	<b>Response rate</b>
ECHO session 1: Chronic pain management fundamentals – the biopsychosocial model of pain	33	13	39%
ECHO session 2: Explaining pain to patients – language, messaging and helping reduce pain catastrophising	29	10	34%
ECHO session 3: Psychological strategies and self-management approaches to pain management	27	12	44%
ECHO session 4: Physical therapies and activity pacing	23	10	43%
ECHO session 5: Types of chronic pain with a focus on neuropathic pain & CRPS	23	12	52%
ECHO session 6: Low back pain	23	13	57%
ECHO session 7: Safe and effective use of medicines for chronic pain	22	13	59%
ECHO session 8: Strategies to support opioid tapering in people with chronic pain	22	9	41%
ECHO session 9: Secondary prevention of chronic pain in the pre/post-surgery and post-injury phase	15	9	60%
ECHO session 10: Sleep management	17	5	29%
<b>Average response rate across the ECHO series</b>			<b>46%</b>

### B. Case presenters survey

- Number of case presenters: n=9
- Number of respondents of the case presenters survey after each case presentation: n=7
- Response rate = 78% (7/9)

### C. Outcome survey

- Number of respondents of the outcome survey after all 10 ECHO session: n=11
- Response rate = 25% (11/44)

## Outcomes of the SA Chronic Pain ECHO Network

Theme Evaluation question		Subthemes	Supporting evidence - <i>satisfaction survey after each ECHO session (n=106 across the ECHO series), case presenters survey (n=7) and outcome survey after the ECHO series (n=11)</i>	
			Quantitative	Qualitative
<b>Level 2 – Satisfaction</b>				
a)	<b>Relevance</b>  <b>Was the ECHO Network perceived by healthcare professionals as relevant to practice?</b>	<b>Subtheme</b>  High level of satisfaction with the relevance to practice	<ul style="list-style-type: none"> <li>➤ Almost all respondents of the satisfaction survey thought that the ECHO sessions were relevant to their practice (average across the series of 10 sessions = 99%)</li> <li>➤ The vast majority of respondents of the satisfaction survey thought that the ECHO sessions had met their learning needs (average across the series of 10 sessions = 95%)</li> </ul>	<p><i>“Thank you... It was very informative and helpful. Definitely chronic pain sessions were one of the best among SAPMEA learning opportunities.”</i> [hcp, outcome survey]</p> <p><i>“I liked receiving suggestions from the different experts present. This will give me ideas about how I can help my patient further.”</i> [case presenter survey]</p> <p><i>“It is clear, detailed and actionable.”</i> [case presenter survey]</p>
b)	<b>Satisfaction with the ECHO format</b>  <b>Were healthcare professionals satisfied with the format and content of the ECHO Network and was the network considered a ‘value-add’ compared to other education programs?</b>	<b>Subtheme</b>  High level of satisfaction with the ECHO format	<ul style="list-style-type: none"> <li>➤ The vast majority of respondents of the satisfaction survey thought that the ECHO (didactic and case study) added value compared to other didactic education formats (ECHO session 1-9: average across the series of 9 sessions = 91%)</li> <li>➤ All respondents of the satisfaction survey thought that ECHO session 10 (didactic and Q &amp; A) added value compared to other didactic education formats</li> <li>➤ The vast majority of respondents of the satisfaction survey thought the ECHO format (didactic and case study) will assist them to integrate learnings into their practice more than other didactic education formats (ECHO session 1-9) (average across the series of 9 sessions = 87%)</li> <li>➤ All respondents of the satisfaction survey thought ECHO session 10 (didactic and Q &amp; A) will assist them to integrate learnings into their practice more than other didactic education formats</li> </ul>	<p><i>“ECHO sessions absolutely fantastic. Such a great way to learn. Thank you.”</i> [hcp, satisfaction survey]</p> <p><i>“Excellent speakers and MC, great content and ability to interact. Thank you.”</i> [hcp, satisfaction survey]</p> <p><i>“It was great, I was so glad that I got the opportunity to present to a multidisciplinary team of specialists.”</i> [case presenter survey]</p> <p><i>“I think the sessions have been run extremely well. The format is great and the “sticking” to time is just fantastic. The ability to interact with specialists is fantastic.”</i> [hcp, satisfaction survey]</p>
		<b>Subtheme</b>	<ul style="list-style-type: none"> <li>➤ The vast majority of respondents of the satisfaction survey were able to use the ZOOM technology without</li> </ul>	-



		<p>High level of satisfaction with the online learning format</p> <p>any problem (average across the series of 10 sessions = 90%)</p> <ul style="list-style-type: none"> <li>➤ The vast majority of respondents of the satisfaction survey thought the online learning format is more accessible to them than a face-to-face format (average across the series of 10 sessions = 93%)</li> <li>➤ The vast majority of respondents of the satisfaction survey thought that the duration of the ECHO sessions was feasible for them to attend (i.e., not too long) (average across the series of 10 sessions = 94%)</li> </ul>	
	<p><i>Subtheme</i></p> <p>High level of satisfaction with information about resources</p>	<ul style="list-style-type: none"> <li>➤ The vast majority of respondents of the satisfaction survey thought that they had learnt about resources for further information or to use with patients (average across the series of 10 sessions = 89%)</li> <li>➤ All respondents of the outcome survey after the series ended thought that the resources discussed in the ECHO sessions and listed on the SAPMEA website were useful</li> </ul>	<p><i>"[Improved] knowledge of available resources for personal and client use."</i> [hcp, outcome survey]</p> <p><i>"[Key learnings are to] utilise resources more and develop handy list to access quickly."</i> [hcp, satisfaction survey]</p>
	<p><i>Subtheme</i></p> <p>Aspects of the format and content not liked by some healthcare professionals</p>	<ul style="list-style-type: none"> <li>➤ Some healthcare professionals thought the ECHO series was too long</li> <li>➤ Some healthcare professionals commented on the complexities and length of some of the cases which negatively impacted on their learning</li> <li>➤ One healthcare professional commented on the lack of useful strategies provided by the Hub for the refugee case study</li> <li>➤ One healthcare professional commented on the lack of a sense of community due to many participants not using their camera/video in the ECHO sessions</li> </ul>	<p><i>"The format for individual sessions was great but the number of sessions overall I felt was a lot. I wanted to attend another ECHO but could not afford to have another evening taken away from family time to attend."</i> [hcp, satisfaction survey]</p> <p><i>"I felt that the extremely complicated nature of some of the case studies distracted from the ability to apply the learnings in some cases."</i> [hcp, outcome survey]</p> <p><i>"I felt that the case study was not really discussed in a helpful way that gave the presenter any strategies to help with her questions around accessing pain education programs that would be suitable for her unique client group Survivors of Torture and Trauma Assistance and Rehabilitation Service (STTARS)."</i> [hcp, satisfaction survey]</p> <p><i>"I find it perplexing that so few of the attendees use video - is that because they don't have it - or that they are choosing not to? It would make it much more collegial if they could use it."</i> [hcp, satisfaction survey]</p>
c)	<b>Mentorship environment</b>	<p><i>Subtheme</i></p> <ul style="list-style-type: none"> <li>➤ The vast majority of the respondents of the satisfaction survey thought the ECHO hub panel created a positive, non-judgemental, and encouraging environment for</li> </ul>	<p><i>"It was incredibly validating. Huge amount of information. Very grateful to the support I have been given."</i> [case presenter survey]</p>

	<p><b>Did healthcare professionals perceive the mentorship environment in the ECHO Network as positive?</b></p>	<p>High level of satisfaction with the mentorship environment</p>	<p>healthcare professionals to present a case and contribute to the discussion (average across the series of 10 sessions = 96%)</p> <ul style="list-style-type: none"> <li>➤ The vast majority of respondents of the satisfaction survey liked learning with other healthcare professionals with an interest in chronic pain (average across the series of 10 sessions = 93%).</li> <li>➤ The vast majority of respondents of the outcome survey after the ECHO series thought the SA Chronic Pain ECHO Network provided professional support (n=9; 90%); and made them feel like they were part of a community of practitioners who share common interests and concerns related to pain management (n=9; 90%).</li> </ul>	<p><i>"I don't know of another forum in which I could have received this support. I have a management pathway with various options depending on the patient's response and it is specific to my patient."</i> [case presenter survey]</p> <p><i>"I felt very listened to and respected. It was very empowering."</i> [case presenter survey]</p> <p><i>"Very supportive from the team."</i> [case presenter survey]</p> <p><i>"[I have] increased awareness of what is out there. Also, that I was not alone in managing this complex issue for patients."</i> [hcp, outcome survey]</p> <p><i>"Ongoing reference source of practitioners and reference materials for use and referral when needed."</i> [hcp, outcome survey]</p>
<p><b>Level 3 - Learning</b></p>				
<p>a)</p>	<p><b>Perceived knowledge gain</b></p> <p><b>Did the ECHO Network improve self-perceived knowledge related to best practice pain care?</b></p>	<p><i>Subtheme</i></p> <p>Self-reported improvements in knowledge</p>	<ul style="list-style-type: none"> <li>➤ The vast majority of respondents of the satisfaction survey thought that the ECHO session(s) they attended had met their learning needs for this topic (average across the 10 ECHO sessions = 95%).</li> <li>➤ The vast majority of respondents of the satisfaction survey thought that they had learnt about the multidisciplinary and biopsychosocial approach to pain management (average across the 10 ECHO sessions = 97%); and self-management and non-pharmacological strategies to use with patients with chronic pain (average across the 10 ECHO sessions = 90%)</li> <li>➤ All respondents of the outcome survey after the series thought the ECHO Network had improved their knowledge about the multidisciplinary and biopsychosocial approach to pain management; and self-management and non-pharmacological strategies to use with patients with chronic pain (n=11; 100%)</li> </ul>	<p><i>"The chronic pain ECHO has updated my knowledge, and it was one of the best of the ECHO series."</i> [hcp, outcome survey]</p> <p><i>"[I have improved] knowledge of available resources for personal and client use."</i> [hcp, outcome survey]</p> <p><i>"[I have improved] knowledge of potential referral sources (other local practitioners)."</i> [hcp, outcome survey]</p> <p><i>"So many older patients seek help with sleep issues associated with chronic pain and knowing what might work can then be applied to their issues."</i> [hcp, satisfaction survey]</p> <p><i>"The shift is to use language to increase safety message and decreasing threatening message. Positive descriptive language used when discussing X Ray findings, some of these were new to me."</i> [hcp, satisfaction survey]</p>
<p>b)</p>	<p><b>Key learnings</b></p> <p><b>What were the most prevalent key learnings for</b></p>	<p><i>Subthemes</i></p> <ul style="list-style-type: none"> <li>• Incorporating psychological into pain care including addressing mental health issues, teaching patients psychological self-management strategies, referring to clinical psychologists if required.</li> </ul>	<p><i>"[Key learnings for me are] asking the patient to contribute more i.e., listen more than talk. Make sure the patient understands clearly and reduce fear."</i> [hcp, satisfaction survey]</p>	

	<b>healthcare professionals from the ECHO Network?</b>	<ul style="list-style-type: none"> <li>Incorporating social approaches into pain care including promoting social connection and community groups.</li> </ul>	<p><i>"[Key learnings for me are] overwhelming importance of mental health in chronic pain management."</i> [hcp, satisfaction survey]</p> <p><i>"[Key learnings for me are] that the biomedical, psychological and social situations of a patient are all recognised elements of chronic pain management rather than just the biomedical side."</i> [hcp, satisfaction survey]</p>	
c)	<b>Attitudes towards patients</b>  <b>Did the ECHO Network change attitudes towards people living with chronic pain with greater understanding of the importance of patient-centred care</b>	<b>Subtheme</b>  Better understanding of patient-centred communication and validating the patient experience	<ul style="list-style-type: none"> <li>The vast majority of respondents of the satisfaction survey thought they had learnt about the importance of a patient centred approach for people with chronic pain e.g., empathic listening and validation (average across the series of 10 sessions = 91%).</li> <li>The vast majority of respondents of the outcome survey thought the ECHO Network impacted their attitudes towards people living with chronic pain (n=9; 90%)</li> </ul>	<p><i>"Pain is invisible symptoms, so it is best to trust my patient when they are in severe pain and do my ultimate treatment. Patient care and satisfaction should be the first priority."</i> [hcp, outcome survey]</p> <p><i>"[I have a better understanding of the] perspectives of problems clients face"</i> [hcp, outcome survey]</p> <p><i>"I will incorporate a different language strategy and be more mindful of how I ask questions."</i> [hcp, satisfaction survey]</p> <p><i>"[I have a] greater understanding of the systemic difficulties involved in accessing care."</i> [hcp, outcome survey]</p>
d)	<b>Attitudes towards other healthcare professionals</b>  <b>Did the ECHO Network change attitudes towards other healthcare professional disciplines involved in pain care with greater understanding of multidisciplinary team-based care?</b>	<b>Subtheme</b>  Better understanding of multidisciplinary team-based care	<ul style="list-style-type: none"> <li>The vast majority of respondents of the satisfaction survey liked the range of views and experiences from the different professional disciplines in the multidisciplinary hub panel and from participating health professionals (average across the 10 ECHO sessions = 97%).</li> <li>The vast majority of respondents of the satisfaction survey thought they had learnt about the multidisciplinary and biopsychosocial approach to pain management (average across the 10 ECHO sessions = 97%).</li> <li>More than half of respondents of the outcome survey thought the ECHO Network had impacted their attitudes towards the role of other health professional disciplines in managing people with chronic pain (n=6; 60%)</li> </ul>	<p><i>"[I have a] better understanding of the way in which different practitioners can contribute and work together."</i> [hcp, outcome survey]</p> <p><i>"Chronic pain is complicated, and I don't know everything but can reach out to others to get ideas."</i> [hcp, satisfaction survey]</p> <p><i>"[I learnt the importance of the] use of physiotherapist and pain psychologist."</i> [hcp, outcome survey]</p> <p><i>"[I have] increased awareness of having communication channels with GP/psychologist to assist in chronic pain management."</i> [hcp, outcome survey]</p>
<b>Level 4 – Competence (self-confidence)</b>				
a)	<b>Confidence</b>  <b>Did the ECHO Network improve confidence related</b>	<b>Subtheme</b>	<ul style="list-style-type: none"> <li>All respondents of the outcome survey thought the ECHO Network had improved their confidence to manage patients with chronic pain; to help people make sense of their pain from a biopsychosocial perspective; and to use</li> </ul>	<p><i>"It was incredibly validating. Huge amount of information. Very grateful to the support I have been given."</i> [case presenter survey]</p>

	<b>to best practice pain care?</b>	Improvements in confidence related to best practice pain care	a patient centred approach with people with chronic pain (e.g., empathetic listening and validation) (n=11; 100%)	<i>"I feel confident to 'prescribe' connecting with others as one of the non-pharmacological treatments for chronic pain."</i> [hcp, outcome survey]
<b>Level 5 – Performance</b>				
a)	<b><i>Intention to change practice</i></b> <b>Did healthcare professionals intend to change their practice after participation in the ECHO Network?</b>	<b><i>Subthemes</i></b> <ul style="list-style-type: none"> <li>• Learning about the whole person</li> <li>• Validating the patient experience</li> <li>• Gathering history around all three elements (biomedical, social and psychological)</li> <li>• Using appropriate language and messaging to reduce pain catastrophising</li> <li>• Addressing mental health issues</li> <li>• Teaching patients self-management strategies</li> <li>• Referral to allied health - clinical psychologists and physiotherapists</li> <li>• Promoting social connection and community groups</li> <li>• Using the consumer and health professional resources recommended</li> <li>• Changing the type of medications prescribed for pain management</li> </ul>	<ul style="list-style-type: none"> <li>➤ The majority of the respondents of the case presenter survey thought the input they received about their patient from the expert panel or the participating health professionals will change their management of the patient (n= 5; 83%)</li> <li>➤ The vast majority of respondents of the satisfaction survey thought they would use their learnings in their clinical practice with patients with chronic pain: 61% (average percentage across the 10 ECHO sessions) thought it was extremely likely they would use their learnings from the ECHO session(s) in their clinical practice with patients with chronic pain; and 36% thought it was likely (average percentage across the 10 ECHO sessions)</li> <li>➤ All GP survey respondents (n= 6) of the outcome survey after the series thought that the ECHO Network increased their intention to reduce opioid prescribing (either amount or frequency).</li> </ul>	<p><i>"So many new ideas were floated, and I will be discussing this with my patient e.g., use of low-cost physio via COTA, using Uni clinics for EP, physio, psyche, redoing a mental health care plan for referral to new eyes."</i> [case presenter survey]</p> <p><i>"The language around ensuring it being painful but not dangerous is something I can incorporate into my practice."</i> [hcp, satisfaction survey]</p> <p><i>"[I intend to] be selective with my language - empowering my patients through my communications."</i> [hcp, satisfaction survey]</p> <p><i>"I will incorporate a different language strategy and be more mindful of how I ask questions."</i> [hcp, satisfaction survey]</p> <p><i>"I will emphasise the value in managing psychological stressors that add to the pain experience and encourage clients to discuss such issues with their GP for consideration of psych referral if warranted."</i> [hcp, satisfaction survey]</p> <p><i>"[I intend to] keep asking: What is the condition now? Is it predominantly depression now - or health anxiety. Start talking about peer support."</i> [hcp, satisfaction survey]</p> <p><i>"[I intend to] continue to emphasise non-pharmacological measures with increased authority."</i> [hcp, satisfaction survey]</p> <p><i>"Ensuring that I gather history around all three elements (biomedical, social and psychological) rather than just the diagnosis so I can hand this information over to the treating clinician."</i> [hcp, satisfaction survey]</p> <p><i>"[I intend to] get patients to make their plans themselves with help."</i> [hcp, satisfaction survey]</p> <p><i>"[I intend to make] early referral to physiotherapist."</i> [hcp, satisfaction survey]</p> <p><i>"[I intend to] utilise [the hcp and consumer] resources more and develop handy list to access quickly."</i> [hcp, satisfaction survey]</p>

		<ul style="list-style-type: none"> <li>• Intention to reduce their opioid prescribing</li> </ul>		<p><i>"[I intend to] change the way I prescribe Pregabalin and use alternative and safer option."</i> [hcp, satisfaction survey]</p> <p><i>"X [Hub panel member's] way of explaining to his patients to taper [opioids] was great, I will use this language in my consulting."</i> [hcp, satisfaction survey]</p> <p><i>"[I intend] to search for psychological patient support including online if face- to-face is unavailable."</i> [hcp, satisfaction survey]</p>
b)	<p><b>Perceived practice change</b></p> <p><b>What were healthcare professionals self-perceived practice changes after participation in the ECHO Network?</b></p>	<p><i>Subthemes</i></p> <ul style="list-style-type: none"> <li>• Increased GP referrals to allied health practitioners for pain management</li> <li>• Encouraging social connection and psychological support</li> <li>• Referring to peer support and university allied health services (for patients with cost barriers)</li> <li>• Use of the consumer and health care professional resources</li> </ul>	<ul style="list-style-type: none"> <li>➤ The vast majority of GP respondents of the outcome survey after the series (n= 5 from 6 GPs) thought that the ECHO Network increased their referrals to allied health practitioners for pain management</li> <li>➤ The vast majority of GP respondents of the outcome survey after the series (n= 5 from 6 GPs) thought that the ECHO Network decreased their opioid prescribing (either amount or frequency)</li> </ul>	<p><i>"Firstly, I am recognising that some patients I have seen for years are chronic pain patients. Identifying this is very helpful. I'm already practicing including some of the learnings about chronic pain management into these patients care plans."</i> [hcp, satisfaction survey]</p> <p><i>"I now encourage patients to treat their PTSD / depression / anxiety because they experience more pain if their mental health is poor."</i> [hcp, outcome survey]</p> <p><i>"I [now] encourage my patients to connect with others because when we connect, we feel happier, and this results in decreasing pain levels."</i> [hcp, outcome survey]</p> <p><i>"The information I received from the panel allowed me to encourage my patient to re-engage in psychological supports and to consider volunteering as a gardener in the community garden."</i> [case presenter, outcome survey]</p> <p><i>"It definitely did [change the management of my patient]. I was not aware of the resources available for the patient e.g., COTA, physio services from universities because cost is the main issue for most older adults who suffer from chronic pain."</i> [case presenter, outcome survey]</p>

hcp = healthcare professional. Moore et al *An Outcome Framework for Planning and Assessing Continuing Medical Education (CME)* was used to inform the evaluation questions in this study.

## Supplementary Material: ECHO Satisfaction survey results

### Satisfaction with ECHO session format

<b>I liked the ECHO session format i.e., a didactic presentation followed by a case presentation (for Session 10: i.e., a didactic session followed by a Q and A session)</b>											
	<b>Session 1 (n=13)</b>	<b>Session 2 (n=10)</b>	<b>Session 3 (n=12)</b>	<b>Session 4 (n=10)</b>	<b>Session 5 (n=12)</b>	<b>Session 6 (n=13)</b>	<b>Session 7 (n=13)</b>	<b>Session 8 (n=9)</b>	<b>Session 9 (n=9)</b>	<b>Session 10 (n=5)</b>	<b>Average</b>
Strongly Agree	11 (85%)	8 (80%)	9 (75%)	6 (60%)	7 (58%)	7 (54%)	8 (62%)	7 (78%)	3 (33%)	3 (60%)	
Agree	1 (8%)	2 (20%)	3 (25%)	3 (30%)	4 (33%)	6 (46%)	4 (31%)	2 (22%)	5 (56%)	2 (40%)	
Neither agree nor disagree				1 (10%)							
Disagree											
Strongly disagree	1 (8%)				1 (8%)		1 (8%)		1 (11%)		
Strongly agree + agree	12 (92%)	10 (100%)	12 (100%)	9 (90%)	11 (92%)	13 (100%)	12 (92%)	9 (100%)	8 (89%)	5 (100%)	<b>95%</b> (Sessions 1-9 only)

<b>I thought that the ECHO session including the case study added value compared to other didactic education session (for Session 10: I thought that the ECHO session including the Q and A session added value compared to other didactic sessions)</b>											
	<b>Session 1 (n=13)</b>	<b>Session 2 (n=10)</b>	<b>Session 3 (n=12)</b>	<b>Session 4 (n=10)</b>	<b>Session 5 (n=12)</b>	<b>Session 6 (n=13)</b>	<b>Session 7 (n=13)</b>	<b>Session 8 (n=9)</b>	<b>Session 9 (n=9)</b>	<b>Session 10 (n=5)</b>	<b>Average</b>
Strongly Agree	10 (77%)	7 (70%)	6 (50%)	8 (80%)	6 (50%)	8 (62%)	6 (46%)	6 (67%)	4 (44%)	4 (80%)	
Agree	3 (23%)	3 (30%)	5 (42%)	1 (10%)	4 (33%)	4 (31%)	4 (31%)	3 (33%)	4 (44%)	1 (20%)	
Neither agree nor disagree				1 (10%)		1 (8%)	2 (15%)				
Disagree			1 (8%)		1 (8%)						
Strongly disagree					1 (8%)		1 (8%)		1 (11%)		
Strongly agree + agree	13 (100%)	10 (100%)	11 (92%)	9 (90%)	10 (83%)	12 (92%)	10 (77%)	9 (100%)	8 (89%)	5 (100%)	<b>91%</b> (Sessions 1-9 only)

<b>I thought the ECHO session format including the case study will assist me to integrate learnings into my practice, more than other didactic education formats (For Session 10: I though the ECHO session format including the Q and A session will assist me to integrate learnings into my practice, more than other didactic education formats).</b>											
	<b>Session 1 (n=13)</b>	<b>Session 2 (n=9)</b>	<b>Session 3 (n=12)</b>	<b>Session 4 (n=10)</b>	<b>Session 5 (n=12)</b>	<b>Session 6 (n=13)</b>	<b>Session 7 (n=13)</b>	<b>Session 8 (n=9)</b>	<b>Session 9 (n=9)</b>	<b>Session 10 (n=5)</b>	<b>Average</b>
Strongly Agree	9 (69%)	6 (67%)	7 (58%)	5 (50%)	4 (33%)	6 (46%)	6 (46%)	4 (44%)	3 (33%)	4 (80%)	
Agree	3 (23%)	3 (33%)	4 (33%)	3 (30%)	5 (42%)	6 (46%)	4 (31%)	5 (56%)	4 (44%)	1 (20%)	
Neither agree nor disagree	1 (8%)			2 (20%)	2 (17%)	1 (8%)	2 (15%)		1 (11%)		
Disagree			1 (8%)								
Strongly disagree					1 (8%)		1 (8%)		1 (11%)		
Strongly agree + agree	12 (92%)	9 (100%)	11 (92%)	8 (80%)	9 (75%)	12 (92%)	10 (77%)	9 (100%)	7 (78%)	5 (100%)	<b>87%</b> (Sessions 1-9 only)



Strongly disagree							1 (8%)		1 (11%)		
Strongly agree + agree	13 (100%)	9 (90%)	10 (83%)	9 (90%)	11 (92%)	13 (100%)	11 (85%)	9 (100%)	8 (89%)	5 (100%)	<b>93%</b>

**The ECHO Hub panel created a positive, non-judgemental, and encouraging environment for health professionals to present a case and contribute to the discussion**

	Session 1 (n=13)	Session 2 (n=10)	Session 3 (n=12)	Session 4 (n=9)	Session 5 (n=12)	Session 6 (n=13)	Session 7 (n=13)	Session 8 (n=9)	Session 9 (n=9)	Session 10 (n=5)	Average
Strongly Agree	9 (69%)	9 (90%)	8 (67%)	7 (78%)	8 (67%)	8 (62%)	6 (46%)	8 (89%)	5 (56%)	4 (80%)	
Agree	4 (31%)	1 (10%)	4 (33%)	2 (22%)	3 (25%)	5 (38%)	4 (31%)	1 (11%)	3 (33%)	1 (20%)	
Neither agree nor disagree							2 (15%)				
Disagree											
Strongly disagree					1 (8%)		1 (8%)		1 (11%)		
Strongly agree + agree	13 (100%)	10 (100%)	12 (100%)	9 (100%)	11 (92%)	13 (100%)	10 (77%)	9 (100%)	8 (89%)	5 (100%)	<b>96%</b>

**I liked the range of views and experiences from the different professional disciplines in the multidisciplinary hub panel and from participating health professionals**

	Session 1 (n=13)	Session 2 (n=10)	Session 3 (n=12)	Session 4 (n=10)	Session 5 (n=12)	Session 6 (n=13)	Session 7 (n=13)	Session 8 (n=9)	Session 9 (n=9)	Session 10 (n=5)	Average
Strongly Agree	7 (54%)	7 (70%)	7 (58%)	7 (70%)	7 (58%)	8 (62%)	5 (38%)	9 (100%)	5 (56%)	4 (80%)	
Agree	6 (46%)	3 (30%)	5 (42%)	3 (30%)	4 (33%)	5 (38%)	7 (54%)		3 (33%)	1 (20%)	
Neither agree nor disagree											
Disagree											
Strongly disagree					1 (8%)		1 (8%)		1 (11%)		
Strongly agree + agree	13 (100%)	10 (100%)	12 (100%)	10 (100%)	11 (92%)	13 (100%)	12 (92%)	9 (100%)	8 (89%)	5 (100%)	<b>97%</b>

**I liked learning with other health professionals with an interest in chronic pain**

	Session 1 (n=13)	Session 2 (n=10)	Session 3 (n=12)	Session 4 (n=10)	Session 5 (n=12)	Session 6 (n=13)	Session 7 (n=13)	Session 8 (n=9)	Session 9 (n=9)	Session 10 (n=5)	Average
Strongly Agree	7 (54%)	7 (70%)	9 (75%)	6 (60%)	6 (50%)	8 (62%)	6 (46%)	9 (100%)	4 (44%)	4 (80%)	
Agree	5 (38%)	3 (30%)	3 (25%)	4 (40%)	5 (42%)	5 (38%)	6 (46%)		4 (44%)	1 (20%)	
Neither agree nor disagree	1 (8%)										
Disagree											
Strongly disagree					1 (8%)		1 (8%)		1 (11%)		
Strongly agree + agree	12 (92%)	10 (100%)	12 (100%)	10 (100%)	11 (92%)	13 (100%)	12 (92%)	9 (100%)	8 (89%)	5 (100%)	<b>97%</b>



## Satisfaction with ECHO session learnings

<b>The ECHO session was relevant to my practice</b>											
	<b>Session 1 (n=13)</b>	<b>Session 2 (n=10)</b>	<b>Session 3 (n=12)</b>	<b>Session 4 (n=10)</b>	<b>Session 5 (n=12)</b>	<b>Session 6 (n=12)</b>	<b>Session 7 (n=13)</b>	<b>Session 8 (n=9)</b>	<b>Session 9 (n=9)</b>	<b>Session 10 (n=5)</b>	<b>Average</b>
Strongly Agree	9 (69%)	7 (70%)	7 (58%)	5 (50%)	5 (42%)	7 (58%)	7 (54%)	5 (56%)	4 (44%)	4 (80%)	
Agree	4 (31%)	3 (30%)	5 (42%)	5 (50%)	7 (58%)	5 (42%)	6 (46%)	3 (33%)	5 (56%)	1 (20%)	
Neither agree nor disagree								1 (11%)			
Disagree											
Strongly disagree											
Strongly agree + agree	13 (100%)	10 (100%)	12 (100%)	10 (100%)	12 (100%)	12 (100%)	13 (100%)	8 (89%)	9 (100%)	5 (100%)	<b>99%</b>
<b>I learnt or refreshed something that will be useful when caring for my patients with chronic pain</b>											
	<b>Session 1 (n=13)</b>	<b>Session 2 (n=10)</b>	<b>Session 3 (n=12)</b>	<b>Session 4 (n=10)</b>	<b>Session 5 (n=12)</b>	<b>Session 6 (n=13)</b>	<b>Session 7 (n=13)</b>	<b>Session 8 (n=9)</b>	<b>Session 9 (n=9)</b>	<b>Session 10 (n=5)</b>	<b>Average</b>
Strongly Agree	8 (62%)	7 (70%)	7 (58%)	6 (60%)	6 (50%)	8 (62%)	7 (54%)	5 (56%)	5 (56%)	3 (60%)	
Agree	5 (38%)	3 (30%)	5 (42%)	3 (30%)	6 (50%)	5 (38%)	5 (38%)	3 (33%)	4 (44%)	2 (40%)	
Neither agree nor disagree				1 (10%)			1 (8%)	1 (11%)			
Disagree											
Strongly disagree											
Strongly agree + agree	13 (100%)	10 (100%)	12 (100%)	9 (90%)	12 (100%)	13 (100%)	12 (92%)	8 (89%)	9 (100%)	5 (100%)	<b>97%</b>
<b>I learnt about resources for further information or to use with patients</b>											
	<b>Session 1 (n=13)</b>	<b>Session 2 (n=10)</b>	<b>Session 3 (n=12)</b>	<b>Session 4 (n=10)</b>	<b>Session 5 (n=12)</b>	<b>Session 6 (n=13)</b>	<b>Session 7 (n=13)</b>	<b>Session 8 (n=9)</b>	<b>Session 9 (n=9)</b>	<b>Session 10 (n=5)</b>	<b>Average</b>
Strongly Agree	7 (54%)	7 (70%)	7 (58%)	7 (70%)	5 (42%)	5 (38%)	5 (38%)	4 (44%)	5 (56%)	3 (60%)	
Agree	5 (38%)	2 (20%)	4 (33%)	2 (20%)	5 (42%)	7 (54%)	5 (38%)	5 (56%)	3 (33%)	1 (20%)	
Neither agree nor disagree	1 (8%)	1 (10%)	1 (8%)	1 (10%)	2 (17%)	1 (8%)	3 (23%)		1 (11%)	1 (20%)	
Disagree											
Strongly disagree											
Strongly agree + agree	12 (92%)	9 (90%)	11 (92%)	9 (90%)	10 (83%)	12 (92%)	10 (77%)	9 (100%)	8 (89%)	4 (80%)	<b>89%</b>
<b>I learnt about the multidisciplinary and biopsychosocial approach to pain management</b>											
	<b>Session 1 (n=13)</b>	<b>Session 2 (n=10)</b>	<b>Session 3 (n=12)</b>	<b>Session 4 (n=10)</b>	<b>Session 5 (n=11)</b>	<b>Session 6 (n=13)</b>	<b>Session 7 (n=13)</b>	<b>Session 8 (n=9)</b>	<b>Session 9 (n=9)</b>	<b>Session 10 (n=5)</b>	<b>Average</b>
Strongly Agree	7 (54%)	6 (60%)	7 (58%)	5 (50%)	6 (55%)	5 (38%)	5 (38%)	4 (44%)	4 (44%)	4 (80%)	
Agree	6 (46%)	2 (20%)	5 (42%)	5 (50%)	5 (45%)	8 (62%)	8 (62%)	4 (44%)	5 (56%)	1 (20%)	
Neither agree nor disagree		2 (20%)						1 (11%)			

Disagree												
Strongly disagree												
Strongly agree + agree	13 (100%)	8 (80%)	12 (100%)	10 (100%)	11 (100%)	13 (100%)	13 (100%)	8 (89%)	9 (100%)	5 (100%)	<b>97%</b>	
<b>I learnt about self-management and non-pharmacological strategies to use with patients with chronic pain</b>												
	<b>Session 1 (n=13)</b>	<b>Session 2 (n=10)</b>	<b>Session 3 (n=12)</b>	<b>Session 4 (n=10)</b>	<b>Session 5 (n=11)</b>	<b>Session 6 (n=13)</b>	<b>Session 7 (n=13)</b>	<b>Session 8 (n=9)</b>	<b>Session 9 (n=9)</b>	<b>Session 10 (n=5)</b>	<b>Average</b>	
Strongly Agree	4 (31%)	4 (40%)	6 (50%)	5 (50%)	4 (36%)	3 (23%)	5 (38%)	4 (44%)	3 (33%)	4 (80%)		
Agree	7 (54%)	4 (40%)	6 (50%)	4 (40%)	3 (27%)	10 (77%)	7 (54%)	5 (56%)	5 (56%)	1 (20%)		
Neither agree nor disagree	2 (15%)	2 (20%)		1 (10%)	4 (36%)		1 (8%)		1 (11%)			
Disagree												
Strongly disagree												
Strongly agree + agree	11 (85%)	8 (80%)	12 (100%)	9 (90%)	7 (64%)	13 (100%)	12 (92%)	9 (100%)	8 (89%)	5 (100%)	<b>90%</b>	
<b>I learnt about chronic pain referral networks and when and who to refer patients with chronic pain to</b>												
	<b>Session 1 (n=12)</b>	<b>Session 2 (n=10)</b>	<b>Session 3 (n=12)</b>	<b>Session 4 (n=10)</b>	<b>Session 5 (n=11)</b>	<b>Session 6 (n=13)</b>	<b>Session 7 (n=12)</b>	<b>Session 8 (n=9)</b>	<b>Session 9 (n=9)</b>	<b>Session 10 (n=5)</b>	<b>Average</b>	
Strongly Agree	4 (33%)	1 (10%)	4 (33%)	3 (30%)	3 (27%)	3 (23%)	4 (33%)	4 (44%)	3 (33%)	2 (40%)		
Agree	5 (42%)	3 (30%)	6 (50%)	5 (50%)	4 (36%)	7 (54%)	3 (25%)	4 (44%)	4 (44%)	3 (60%)		
Neither agree nor disagree	2 (17%)	5 (50%)	2 (17%)	2 (20%)	2 (18%)	3 (23%)	4 (33%)	1 (11%)	2 (22%)			
Disagree	1 (8%)	1 (10%)			2 (18%)		1 (8%)					
Strongly disagree												
Strongly agree + agree	9 (75%)	4 (40%)	10 (83%)	8 (80%)	7 (64%)	10 (77%)	7 (58%)	8 (89%)	7 (78%)	5 (100%)	<b>74%</b>	
<b>I learnt about the importance of a patient centred approach for people with chronic pain e.g., empathic listening and validation</b>												
	<b>Session 1 (n=13)</b>	<b>Session 2 (n=10)</b>	<b>Session 3 (n=12)</b>	<b>Session 4 (n=10)</b>	<b>Session 5 (n=11)</b>	<b>Session 6 (n=13)</b>	<b>Session 7 (n=13)</b>	<b>Session 8 (n=9)</b>	<b>Session 9 (n=9)</b>	<b>Session 10 (n=5)</b>	<b>Average</b>	
Strongly Agree	4 (31%)	7 (70%)	7 (58%)	6 (60%)	5 (45%)	2 (15%)	7 (54%)	3 (33%)	5 (56%)	2 (40%)		
Agree	6 (46%)	3 (30%)	5 (42%)	3 (30%)	4 (36%)	8 (62%)	4 (31%)	6 (67%)	4 (44%)	3 (60%)		
Neither agree nor disagree	3 (23%)			1 (10%)	2 (18%)	3 (23%)	2 (15%)					
Disagree												
Strongly disagree												
Strongly agree + agree	10 (77%)	10 (100%)	12 (100%)	9 (90%)	9 (82%)	10 (77%)	11 (85%)	9 (100%)	9 (100%)	5 (100%)	<b>91%</b>	
<b>I think attending this ECHO session will improve the quality of my care that I provide to my patients with chronic pain</b>												
	<b>Session 1 (n=13)</b>	<b>Session 2 (n=10)</b>	<b>Session 3 (n=12)</b>	<b>Session 4 (n=10)</b>	<b>Session 5 (n=11)</b>	<b>Session 6 (n=13)</b>	<b>Session 7 (n=13)</b>	<b>Session 8 (n=9)</b>	<b>Session 9 (n=9)</b>	<b>Session 10 (n=5)</b>	<b>Average</b>	
Strongly Agree	6 (46%)	7 (70%)	7 (58%)	6 (60%)	5 (45%)	3 (23%)	7 (54%)	3 (33%)	3 (33%)	3 (60%)		

Agree	6 (46%)	2 (20%)	5 (42%)	3 (30%)	5 (45%)	10 (77%)	6 (46%)	6 (67%)	6 (67%)	2 (40%)	
Neither agree nor disagree	1 (8%)	1 (10%)		1 (10%)	1 (9%)						
Disagree											
Strongly disagree											
Strongly agree + agree	12 (92%)	9 (90%)	12 (100%)	9 (90%)	10 (91%)	13 (100%)	13 (100%)	9 (100%)	9 (100%)	5 (100%)	<b>96%</b>
<b>Overall, this ECHO session met my learning needs for this topic</b>											
	<b>Session 1 (n=12)</b>	<b>Session 2 (n=10)</b>	<b>Session 3 (n=12)</b>	<b>Session 4 (n=10)</b>	<b>Session 5 (n=11)</b>	<b>Session 6 (n=13)</b>	<b>Session 7 (n=13)</b>	<b>Session 8 (n=9)</b>	<b>Session 9 (n=8)</b>	<b>Session 10 (n=5)</b>	<b>Average</b>
Strongly Agree	4 (33%)	6 (60%)	5 (42%)	5 (50%)	5 (45%)	4 (31%)	9 (69%)	5 (56%)	5 (63%)	2 (40%)	
Agree	8 (67%)	3 (30%)	6 (50%)	4 (40%)	5 (45%)	8 (62%)	4 (31%)	4 (44%)	3 (38%)	3 (60%)	
Neither agree nor disagree			1 (8%)	1 (10%)	1 (9%)	1 (8%)					
Disagree		1 (10%)									
Strongly disagree											
Strongly agree + agree	12 (100%)	9 (90%)	11 (92%)	9 (90%)	10 (91%)	12 (92%)	13 (100%)	9 (100%)	8 (100%)	5 (100%)	<b>95%</b>

### Intention to apply learnings and systems-based issues

<b>How likely are you to use your learnings from this ECHO session in your clinical practice with patients with chronic pain?</b>											
	<b>Session 1 (n=13)</b>	<b>Session 2 (n=10)</b>	<b>Session 3 (n=12)</b>	<b>Session 4 (n=10)</b>	<b>Session 5 (n=12)</b>	<b>Session 6 (n=12)</b>	<b>Session 7 (n=13)</b>	<b>Session 8 (n=9)</b>	<b>Session 9 (n=9)</b>	<b>Session 10 (n=5)</b>	<b>Average</b>
Extremely likely	7 (54%)	8 (80%)	9 (75%)	6 (60%)	7 (58%)	7 (58%)	8 (62%)	6 (67%)	3 (33%)	3 (60%)	61%
Likely	6 (46%)	2 (20%)	3 (25%)	3 (30%)	4 (33%)	5 (42%)	5 (38%)	2 (22%)	6 (67%)	2 (40%)	36%
Neutral/don't know				1 (10%)	1 (8%)			1 (11%)			10%
Unlikely											
Extremely unlikely											
<b>Are there any systems-based issues that might prevent you from applying your new learning into practice? Think about your particular practice setting, the wider health services and health system, government policies, MBS reimbursement, and other factors</b>											
	<b>Session 1 (n=13)</b>	<b>Session 2 (n=10)</b>	<b>Session 3 (n=12)</b>	<b>Session 4 (n=10)</b>	<b>Session 5 (n=12)</b>	<b>Session 6 (n=12)</b>	<b>Session 7 (n=13)</b>	<b>Session 8 (n=9)</b>	<b>Session 9 (n=8)</b>	<b>Session 10 (n=5)</b>	<b>Average</b>
Yes	3 (23%)	4 (40%)	4 (33%)	2 (20%)	5 (42%)	4 (33%)	5 (38%)	6 (67%)		4 (80%)	42%
No	6 (46%)	5 (50%)	6 (50%)	6 (60%)	6 (50%)	5 (42%)	7 (54%)	1 (11%)	8 (100%)	1 (20%)	48%
Unsure	4 (31%)	1 (10%)	2 (17%)	2 (20%)	1 (8%)	3 (25%)	1 (8%)	2 (22%)			18%

## Supplementary Material: ECHO Satisfaction survey results

### Satisfaction with ECHO session format

<b>I liked the ECHO session format i.e., a didactic presentation followed by a case presentation (for Session 10: i.e., a didactic session followed by a Q and A session)</b>											
	<b>Session 1 (n=13)</b>	<b>Session 2 (n=10)</b>	<b>Session 3 (n=12)</b>	<b>Session 4 (n=10)</b>	<b>Session 5 (n=12)</b>	<b>Session 6 (n=13)</b>	<b>Session 7 (n=13)</b>	<b>Session 8 (n=9)</b>	<b>Session 9 (n=9)</b>	<b>Session 10 (n=5)</b>	<b>Average</b>
Strongly Agree	11 (85%)	8 (80%)	9 (75%)	6 (60%)	7 (58%)	7 (54%)	8 (62%)	7 (78%)	3 (33%)	3 (60%)	
Agree	1 (8%)	2 (20%)	3 (25%)	3 (30%)	4 (33%)	6 (46%)	4 (31%)	2 (22%)	5 (56%)	2 (40%)	
Neither agree nor disagree				1 (10%)							
Disagree											
Strongly disagree	1 (8%)				1 (8%)		1 (8%)		1 (11%)		
Strongly agree + agree	12 (92%)	10 (100%)	12 (100%)	9 (90%)	11 (92%)	13 (100%)	12 (92%)	9 (100%)	8 (89%)	5 (100%)	<b>95%</b> (Sessions 1-9 only)

<b>I thought that the ECHO session including the case study added value compared to other didactic education session (for Session 10: I thought that the ECHO session including the Q and A session added value compared to other didactic sessions)</b>											
	<b>Session 1 (n=13)</b>	<b>Session 2 (n=10)</b>	<b>Session 3 (n=12)</b>	<b>Session 4 (n=10)</b>	<b>Session 5 (n=12)</b>	<b>Session 6 (n=13)</b>	<b>Session 7 (n=13)</b>	<b>Session 8 (n=9)</b>	<b>Session 9 (n=9)</b>	<b>Session 10 (n=5)</b>	<b>Average</b>
Strongly Agree	10 (77%)	7 (70%)	6 (50%)	8 (80%)	6 (50%)	8 (62%)	6 (46%)	6 (67%)	4 (44%)	4 (80%)	
Agree	3 (23%)	3 (30%)	5 (42%)	1 (10%)	4 (33%)	4 (31%)	4 (31%)	3 (33%)	4 (44%)	1 (20%)	
Neither agree nor disagree				1 (10%)		1 (8%)	2 (15%)				
Disagree			1 (8%)		1 (8%)						
Strongly disagree					1 (8%)		1 (8%)		1 (11%)		
Strongly agree + agree	13 (100%)	10 (100%)	11 (92%)	9 (90%)	10 (83%)	12 (92%)	10 (77%)	9 (100%)	8 (89%)	5 (100%)	<b>91%</b> (Sessions 1-9 only)

<b>I thought the ECHO session format including the case study will assist me to integrate learnings into my practice, more than other didactic education formats (For Session 10: I though the ECHO session format including the Q and A session will assist me to integrate learnings into my practice, more than other didactic education formats).</b>											
	<b>Session 1 (n=13)</b>	<b>Session 2 (n=9)</b>	<b>Session 3 (n=12)</b>	<b>Session 4 (n=10)</b>	<b>Session 5 (n=12)</b>	<b>Session 6 (n=13)</b>	<b>Session 7 (n=13)</b>	<b>Session 8 (n=9)</b>	<b>Session 9 (n=9)</b>	<b>Session 10 (n=5)</b>	<b>Average</b>
Strongly Agree	9 (69%)	6 (67%)	7 (58%)	5 (50%)	4 (33%)	6 (46%)	6 (46%)	4 (44%)	3 (33%)	4 (80%)	
Agree	3 (23%)	3 (33%)	4 (33%)	3 (30%)	5 (42%)	6 (46%)	4 (31%)	5 (56%)	4 (44%)	1 (20%)	
Neither agree nor disagree	1 (8%)			2 (20%)	2 (17%)	1 (8%)	2 (15%)		1 (11%)		
Disagree			1 (8%)								
Strongly disagree					1 (8%)		1 (8%)		1 (11%)		
Strongly agree + agree	12 (92%)	9 (100%)	11 (92%)	8 (80%)	9 (75%)	12 (92%)	10 (77%)	9 (100%)	7 (78%)	5 (100%)	<b>87%</b> (Sessions 1-9 only)



Strongly disagree							1 (8%)		1 (11%)		
Strongly agree + agree	13 (100%)	9 (90%)	10 (83%)	9 (90%)	11 (92%)	13 (100%)	11 (85%)	9 (100%)	8 (89%)	5 (100%)	<b>93%</b>

**The ECHO Hub panel created a positive, non-judgemental, and encouraging environment for health professionals to present a case and contribute to the discussion**

	Session 1 (n=13)	Session 2 (n=10)	Session 3 (n=12)	Session 4 (n=9)	Session 5 (n=12)	Session 6 (n=13)	Session 7 (n=13)	Session 8 (n=9)	Session 9 (n=9)	Session 10 (n=5)	Average
Strongly Agree	9 (69%)	9 (90%)	8 (67%)	7 (78%)	8 (67%)	8 (62%)	6 (46%)	8 (89%)	5 (56%)	4 (80%)	
Agree	4 (31%)	1 (10%)	4 (33%)	2 (22%)	3 (25%)	5 (38%)	4 (31%)	1 (11%)	3 (33%)	1 (20%)	
Neither agree nor disagree							2 (15%)				
Disagree											
Strongly disagree					1 (8%)		1 (8%)		1 (11%)		
Strongly agree + agree	13 (100%)	10 (100%)	12 (100%)	9 (100%)	11 (92%)	13 (100%)	10 (77%)	9 (100%)	8 (89%)	5 (100%)	<b>96%</b>

**I liked the range of views and experiences from the different professional disciplines in the multidisciplinary hub panel and from participating health professionals**

	Session 1 (n=13)	Session 2 (n=10)	Session 3 (n=12)	Session 4 (n=10)	Session 5 (n=12)	Session 6 (n=13)	Session 7 (n=13)	Session 8 (n=9)	Session 9 (n=9)	Session 10 (n=5)	Average
Strongly Agree	7 (54%)	7 (70%)	7 (58%)	7 (70%)	7 (58%)	8 (62%)	5 (38%)	9 (100%)	5 (56%)	4 (80%)	
Agree	6 (46%)	3 (30%)	5 (42%)	3 (30%)	4 (33%)	5 (38%)	7 (54%)		3 (33%)	1 (20%)	
Neither agree nor disagree											
Disagree											
Strongly disagree					1 (8%)		1 (8%)		1 (11%)		
Strongly agree + agree	13 (100%)	10 (100%)	12 (100%)	10 (100%)	11 (92%)	13 (100%)	12 (92%)	9 (100%)	8 (89%)	5 (100%)	<b>97%</b>

**I liked learning with other health professionals with an interest in chronic pain**

	Session 1 (n=13)	Session 2 (n=10)	Session 3 (n=12)	Session 4 (n=10)	Session 5 (n=12)	Session 6 (n=13)	Session 7 (n=13)	Session 8 (n=9)	Session 9 (n=9)	Session 10 (n=5)	Average
Strongly Agree	7 (54%)	7 (70%)	9 (75%)	6 (60%)	6 (50%)	8 (62%)	6 (46%)	9 (100%)	4 (44%)	4 (80%)	
Agree	5 (38%)	3 (30%)	3 (25%)	4 (40%)	5 (42%)	5 (38%)	6 (46%)		4 (44%)	1 (20%)	
Neither agree nor disagree	1 (8%)										
Disagree											
Strongly disagree					1 (8%)		1 (8%)		1 (11%)		
Strongly agree + agree	12 (92%)	10 (100%)	12 (100%)	10 (100%)	11 (92%)	13 (100%)	12 (92%)	9 (100%)	8 (89%)	5 (100%)	<b>97%</b>

## Satisfaction with ECHO session learnings

<b>The ECHO session was relevant to my practice</b>											
	<b>Session 1 (n=13)</b>	<b>Session 2 (n=10)</b>	<b>Session 3 (n=12)</b>	<b>Session 4 (n=10)</b>	<b>Session 5 (n=12)</b>	<b>Session 6 (n=12)</b>	<b>Session 7 (n=13)</b>	<b>Session 8 (n=9)</b>	<b>Session 9 (n=9)</b>	<b>Session 10 (n=5)</b>	<b>Average</b>
Strongly Agree	9 (69%)	7 (70%)	7 (58%)	5 (50%)	5 (42%)	7 (58%)	7 (54%)	5 (56%)	4 (44%)	4 (80%)	
Agree	4 (31%)	3 (30%)	5 (42%)	5 (50%)	7 (58%)	5 (42%)	6 (46%)	3 (33%)	5 (56%)	1 (20%)	
Neither agree nor disagree								1 (11%)			
Disagree											
Strongly disagree											
Strongly agree + agree	13 (100%)	10 (100%)	12 (100%)	10 (100%)	12 (100%)	12 (100%)	13 (100%)	8 (89%)	9 (100%)	5 (100%)	<b>99%</b>
<b>I learnt or refreshed something that will be useful when caring for my patients with chronic pain</b>											
	<b>Session 1 (n=13)</b>	<b>Session 2 (n=10)</b>	<b>Session 3 (n=12)</b>	<b>Session 4 (n=10)</b>	<b>Session 5 (n=12)</b>	<b>Session 6 (n=13)</b>	<b>Session 7 (n=13)</b>	<b>Session 8 (n=9)</b>	<b>Session 9 (n=9)</b>	<b>Session 10 (n=5)</b>	<b>Average</b>
Strongly Agree	8 (62%)	7 (70%)	7 (58%)	6 (60%)	6 (50%)	8 (62%)	7 (54%)	5 (56%)	5 (56%)	3 (60%)	
Agree	5 (38%)	3 (30%)	5 (42%)	3 (30%)	6 (50%)	5 (38%)	5 (38%)	3 (33%)	4 (44%)	2 (40%)	
Neither agree nor disagree				1 (10%)			1 (8%)	1 (11%)			
Disagree											
Strongly disagree											
Strongly agree + agree	13 (100%)	10 (100%)	12 (100%)	9 (90%)	12 (100%)	13 (100%)	12 (92%)	8 (89%)	9 (100%)	5 (100%)	<b>97%</b>
<b>I learnt about resources for further information or to use with patients</b>											
	<b>Session 1 (n=13)</b>	<b>Session 2 (n=10)</b>	<b>Session 3 (n=12)</b>	<b>Session 4 (n=10)</b>	<b>Session 5 (n=12)</b>	<b>Session 6 (n=13)</b>	<b>Session 7 (n=13)</b>	<b>Session 8 (n=9)</b>	<b>Session 9 (n=9)</b>	<b>Session 10 (n=5)</b>	<b>Average</b>
Strongly Agree	7 (54%)	7 (70%)	7 (58%)	7 (70%)	5 (42%)	5 (38%)	5 (38%)	4 (44%)	5 (56%)	3 (60%)	
Agree	5 (38%)	2 (20%)	4 (33%)	2 (20%)	5 (42%)	7 (54%)	5 (38%)	5 (56%)	3 (33%)	1 (20%)	
Neither agree nor disagree	1 (8%)	1 (10%)	1 (8%)	1 (10%)	2 (17%)	1 (8%)	3 (23%)		1 (11%)	1 (20%)	
Disagree											
Strongly disagree											
Strongly agree + agree	12 (92%)	9 (90%)	11 (92%)	9 (90%)	10 (83%)	12 (92%)	10 (77%)	9 (100%)	8 (89%)	4 (80%)	<b>89%</b>
<b>I learnt about the multidisciplinary and biopsychosocial approach to pain management</b>											
	<b>Session 1 (n=13)</b>	<b>Session 2 (n=10)</b>	<b>Session 3 (n=12)</b>	<b>Session 4 (n=10)</b>	<b>Session 5 (n=11)</b>	<b>Session 6 (n=13)</b>	<b>Session 7 (n=13)</b>	<b>Session 8 (n=9)</b>	<b>Session 9 (n=9)</b>	<b>Session 10 (n=5)</b>	<b>Average</b>
Strongly Agree	7 (54%)	6 (60%)	7 (58%)	5 (50%)	6 (55%)	5 (38%)	5 (38%)	4 (44%)	4 (44%)	4 (80%)	
Agree	6 (46%)	2 (20%)	5 (42%)	5 (50%)	5 (45%)	8 (62%)	8 (62%)	4 (44%)	5 (56%)	1 (20%)	
Neither agree nor disagree		2 (20%)						1 (11%)			

Disagree												
Strongly disagree												
Strongly agree + agree	13 (100%)	8 (80%)	12 (100%)	10 (100%)	11 (100%)	13 (100%)	13 (100%)	8 (89%)	9 (100%)	5 (100%)	<b>97%</b>	
<b>I learnt about self-management and non-pharmacological strategies to use with patients with chronic pain</b>												
	<b>Session 1 (n=13)</b>	<b>Session 2 (n=10)</b>	<b>Session 3 (n=12)</b>	<b>Session 4 (n=10)</b>	<b>Session 5 (n=11)</b>	<b>Session 6 (n=13)</b>	<b>Session 7 (n=13)</b>	<b>Session 8 (n=9)</b>	<b>Session 9 (n=9)</b>	<b>Session 10 (n=5)</b>	<b>Average</b>	
Strongly Agree	4 (31%)	4 (40%)	6 (50%)	5 (50%)	4 (36%)	3 (23%)	5 (38%)	4 (44%)	3 (33%)	4 (80%)		
Agree	7 (54%)	4 (40%)	6 (50%)	4 (40%)	3 (27%)	10 (77%)	7 (54%)	5 (56%)	5 (56%)	1 (20%)		
Neither agree nor disagree	2 (15%)	2 (20%)		1 (10%)	4 (36%)		1 (8%)		1 (11%)			
Disagree												
Strongly disagree												
Strongly agree + agree	11 (85%)	8 (80%)	12 (100%)	9 (90%)	7 (64%)	13 (100%)	12 (92%)	9 (100%)	8 (89%)	5 (100%)	<b>90%</b>	
<b>I learnt about chronic pain referral networks and when and who to refer patients with chronic pain to</b>												
	<b>Session 1 (n=12)</b>	<b>Session 2 (n=10)</b>	<b>Session 3 (n=12)</b>	<b>Session 4 (n=10)</b>	<b>Session 5 (n=11)</b>	<b>Session 6 (n=13)</b>	<b>Session 7 (n=12)</b>	<b>Session 8 (n=9)</b>	<b>Session 9 (n=9)</b>	<b>Session 10 (n=5)</b>	<b>Average</b>	
Strongly Agree	4 (33%)	1 (10%)	4 (33%)	3 (30%)	3 (27%)	3 (23%)	4 (33%)	4 (44%)	3 (33%)	2 (40%)		
Agree	5 (42%)	3 (30%)	6 (50%)	5 (50%)	4 (36%)	7 (54%)	3 (25%)	4 (44%)	4 (44%)	3 (60%)		
Neither agree nor disagree	2 (17%)	5 (50%)	2 (17%)	2 (20%)	2 (18%)	3 (23%)	4 (33%)	1 (11%)	2 (22%)			
Disagree	1 (8%)	1 (10%)			2 (18%)		1 (8%)					
Strongly disagree												
Strongly agree + agree	9 (75%)	4 (40%)	10 (83%)	8 (80%)	7 (64%)	10 (77%)	7 (58%)	8 (89%)	7 (78%)	5 (100%)	<b>74%</b>	
<b>I learnt about the importance of a patient centred approach for people with chronic pain e.g., empathic listening and validation</b>												
	<b>Session 1 (n=13)</b>	<b>Session 2 (n=10)</b>	<b>Session 3 (n=12)</b>	<b>Session 4 (n=10)</b>	<b>Session 5 (n=11)</b>	<b>Session 6 (n=13)</b>	<b>Session 7 (n=13)</b>	<b>Session 8 (n=9)</b>	<b>Session 9 (n=9)</b>	<b>Session 10 (n=5)</b>	<b>Average</b>	
Strongly Agree	4 (31%)	7 (70%)	7 (58%)	6 (60%)	5 (45%)	2 (15%)	7 (54%)	3 (33%)	5 (56%)	2 (40%)		
Agree	6 (46%)	3 (30%)	5 (42%)	3 (30%)	4 (36%)	8 (62%)	4 (31%)	6 (67%)	4 (44%)	3 (60%)		
Neither agree nor disagree	3 (23%)			1 (10%)	2 (18%)	3 (23%)	2 (15%)					
Disagree												
Strongly disagree												
Strongly agree + agree	10 (77%)	10 (100%)	12 (100%)	9 (90%)	9 (82%)	10 (77%)	11 (85%)	9 (100%)	9 (100%)	5 (100%)	<b>91%</b>	
<b>I think attending this ECHO session will improve the quality of my care that I provide to my patients with chronic pain</b>												
	<b>Session 1 (n=13)</b>	<b>Session 2 (n=10)</b>	<b>Session 3 (n=12)</b>	<b>Session 4 (n=10)</b>	<b>Session 5 (n=11)</b>	<b>Session 6 (n=13)</b>	<b>Session 7 (n=13)</b>	<b>Session 8 (n=9)</b>	<b>Session 9 (n=9)</b>	<b>Session 10 (n=5)</b>	<b>Average</b>	
Strongly Agree	6 (46%)	7 (70%)	7 (58%)	6 (60%)	5 (45%)	3 (23%)	7 (54%)	3 (33%)	3 (33%)	3 (60%)		



Agree	6 (46%)	2 (20%)	5 (42%)	3 (30%)	5 (45%)	10 (77%)	6 (46%)	6 (67%)	6 (67%)	2 (40%)	
Neither agree nor disagree	1 (8%)	1 (10%)		1 (10%)	1 (9%)						
Disagree											
Strongly disagree											
Strongly agree + agree	12 (92%)	9 (90%)	12 (100%)	9 (90%)	10 (91%)	13 (100%)	13 (100%)	9 (100%)	9 (100%)	5 (100%)	<b>96%</b>
<b>Overall, this ECHO session met my learning needs for this topic</b>											
	<b>Session 1 (n=12)</b>	<b>Session 2 (n=10)</b>	<b>Session 3 (n=12)</b>	<b>Session 4 (n=10)</b>	<b>Session 5 (n=11)</b>	<b>Session 6 (n=13)</b>	<b>Session 7 (n=13)</b>	<b>Session 8 (n=9)</b>	<b>Session 9 (n=8)</b>	<b>Session 10 (n=5)</b>	<b>Average</b>
Strongly Agree	4 (33%)	6 (60%)	5 (42%)	5 (50%)	5 (45%)	4 (31%)	9 (69%)	5 (56%)	5 (63%)	2 (40%)	
Agree	8 (67%)	3 (30%)	6 (50%)	4 (40%)	5 (45%)	8 (62%)	4 (31%)	4 (44%)	3 (38%)	3 (60%)	
Neither agree nor disagree			1 (8%)	1 (10%)	1 (9%)	1 (8%)					
Disagree		1 (10%)									
Strongly disagree											
Strongly agree + agree	12 (100%)	9 (90%)	11 (92%)	9 (90%)	10 (91%)	12 (92%)	13 (100%)	9 (100%)	8 (100%)	5 (100%)	<b>95%</b>

### Intention to apply learnings and systems-based issues

<b>How likely are you to use your learnings from this ECHO session in your clinical practice with patients with chronic pain?</b>											
	<b>Session 1 (n=13)</b>	<b>Session 2 (n=10)</b>	<b>Session 3 (n=12)</b>	<b>Session 4 (n=10)</b>	<b>Session 5 (n=12)</b>	<b>Session 6 (n=12)</b>	<b>Session 7 (n=13)</b>	<b>Session 8 (n=9)</b>	<b>Session 9 (n=9)</b>	<b>Session 10 (n=5)</b>	<b>Average</b>
Extremely likely	7 (54%)	8 (80%)	9 (75%)	6 (60%)	7 (58%)	7 (58%)	8 (62%)	6 (67%)	3 (33%)	3 (60%)	61%
Likely	6 (46%)	2 (20%)	3 (25%)	3 (30%)	4 (33%)	5 (42%)	5 (38%)	2 (22%)	6 (67%)	2 (40%)	36%
Neutral/don't know				1 (10%)	1 (8%)			1 (11%)			10%
Unlikely											
Extremely unlikely											
<b>Are there any systems-based issues that might prevent you from applying your new learning into practice? Think about your particular practice setting, the wider health services and health system, government policies, MBS reimbursement, and other factors</b>											
	<b>Session 1 (n=13)</b>	<b>Session 2 (n=10)</b>	<b>Session 3 (n=12)</b>	<b>Session 4 (n=10)</b>	<b>Session 5 (n=12)</b>	<b>Session 6 (n=12)</b>	<b>Session 7 (n=13)</b>	<b>Session 8 (n=9)</b>	<b>Session 9 (n=8)</b>	<b>Session 10 (n=5)</b>	<b>Average</b>
Yes	3 (23%)	4 (40%)	4 (33%)	2 (20%)	5 (42%)	4 (33%)	5 (38%)	6 (67%)		4 (80%)	42%
No	6 (46%)	5 (50%)	6 (50%)	6 (60%)	6 (50%)	5 (42%)	7 (54%)	1 (11%)	8 (100%)	1 (20%)	48%
Unsure	4 (31%)	1 (10%)	2 (17%)	2 (20%)	1 (8%)	3 (25%)	1 (8%)	2 (22%)			18%