

SUPPORT (South Gloucestershire Pain Review Pilot) Study: a mixed methods evaluation

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Background

- ~1 in 7 adults in the United Kingdom have chronic non-cancer pain (CNCP)
- Increasing use of opioids for CNCP in primary care despite a lack of evidence for the long-term safety and effectiveness of these drugs
- Long-term use of prescription opioids in CNCP associated with:
 - Opioid dependence and addiction
 - Increased mortality
- Scale of the problem of dependence is unclear
- People with prescription opioid dependence are less likely to access traditional specialist substance misuse treatment services
- National guidance recommends that commissioners provide separate addiction services to treat prescription opioid dependence









South Gloucestershire Pain Review Pilot

Aim

 Investigate the feasibility of a service in primary care for patients with CNCP treated with long-term opioids

Inclusion criteria

- Adult, primary care patients
- Long-term opioid analgesic use for CNCP
 - Taking opioids for >3 months
 - ≥ 3 opioid painkiller prescriptions in 3-month period

Exclusion criteria

- Illicit drug use
- End of life







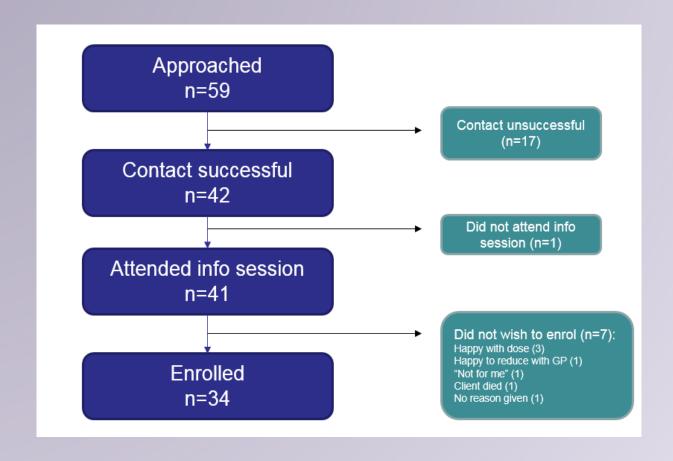
Pilot service

- Help patients understand their relationship with opioids and support alternative non-drug-based pain management strategies
- Delivered in 2 GP practices in South Gloucestershire
- Individually tailored, multi-component service
- Delivered by project workers on a one-to-one basis
- Approach informed by:
 - Shared care model
 - Patient centred counselling
 - Cognitive Behavioural Therapy
 - Social prescribing
- Partnership working between 2 project workers, GPs, patients and consultants in pain management and addiction psychiatry





Enrolment in service







Aim

To evaluate the South Gloucestershire Pain Review Pilot using qualitative and quantitative methods.





Methods: quantitative data

- Demographics
- Baseline to follow-up intervention changes:
 - Prescribed opioid dose average daily morphine equivalent
 - Current Opioid Misuse Measure (COMM) diagnosis of opioid use disorder
 - Brief Pain Inventory (BPI) pain intensity and the interference of pain
 - Warwick-Edinburgh mental well-being scale estimate mental well-being
 - Treatment Outcomes Profile (TOP) tool physical and psychological health, and overall quality of life (QoL)





Methods: qualitative data

- 18 service-user semi-structured interviews
- 7 service-provider semi-structured interviews
 - Project workers (n=2),
 - Project workers' manager (n=1)
 - GPs in participating GP practices (n=4)
- Interviews explored:
 - Experiences of the service (acceptability, what worked well and what could be improved)





Methods: analysis

- Means and standard deviations, medians and inter-quartile ranges or counts and percentages
- Wilcoxon signed-rank test compared baseline and follow-up average prescribed opioid dose
- Thematic analysis used following a data-driven inductive approach





Baseline service user characteristics (1)

		Enrolled patients		
		n	%	
Female gender		22/34	64.7%	
Age (years; mean, SD)		51	10	
Ethnicity				
	White	31/31	100.0%	<u> </u>
	Other	0/31	0.0%	
Employment status				
	Employed	6/31	19.4%	
	Unemployed	23/31	74.2%	~
	Retired	2/31	6.5%	
Relationship status				
	Single	6/31	19.4%	
	Married	19/31	61.3%	
	Separated	3/31	9.7%	
	Divorced	1/31	3.2%	
	Other	2/31	6.5%	1
Disability		20/27	74.1%	
Previous pain clinic use		22/31	71.0%	



Baseline service user characteristics (2)

	Enrolled patients		
	n	%	
Reported reason for original opioid prescription			
Back pain	9/32	28.1%	
Fibromyalgia	4/32	12.5%	
Arthritis	5/32	15.6%	
Spinal or disc degeneration/ deformities	5/23	15.6%	
Other	9/32	28.1%	
Opioid type			
Morphine	9/34	26.5%	
Tramadol	10/34	29.4%	
Oxycodone family	7/34	20.6%	
Codeine	17/34	50.0%	
Fentanyl	5/34	14.7%	
Methadone	1/34	2.9%	
Buprenorphine	3/34	8.8%	
Nurofen plus	1/34	2.9%	
Duration of use			
0-2 years	2/29	6.9%	
3-4 years	3/29	10.3%	
5-9 years	9/29	31.0%	
10-14 years	6/29	20.7%	
15+ years	9/29	31.0%	
Motivation for use			
Pain	32/32	100.0%	
Coping with feelings	4/32	12.5%	
Addiction/dependence	3/32	9.4%	
Sleep	1/32	3.1%	
Withdrawal allowance	1/32	3.1%	



Results: Enrolment

Enrolment

Identify and enrol eligible patients from GP practice

- GP referrals into service more efficient and effective than using the opioid risk assessment tool (ORAT)
- Recruitment acceptable to service users and providers

My only concern was when they did send the letter through, it said it was called BAT battling against tranquilisers and I wasn't aware that's what the group was. That did sort of really upset me because I think battling against tranquilisers is someone who's using them as an addictive thing and I wasn't using them because I was addicted. I was using them to combat pain so I could continue a semi normal life. Service user





Results: intervention content (1)

Enrolment

Intervention content

Identify and enrol eligible patients from GP practice



Assessment of service user needs

We kind of poke around kind of paying attention to areas where people feel like they're not getting kind of enough support or whatever and try and build up a picture that we can present back to the person. Project worker 1, Interview 13





Results: intervention content (2)

Enrolment

Intervention content

Identify and enrol eligible patients from GP practice

Assessment of service user needs



Pain management plan co-created with service users



Intervention content (3)

Enrolment

Identify and enrol eligible patients from GP practice

Intervention content

Assessment of service user needs



Pain management plan co-created with service users



Within session components:

- Goal setting
- Education
- Counselling
- Medication review
- Pain management strategies



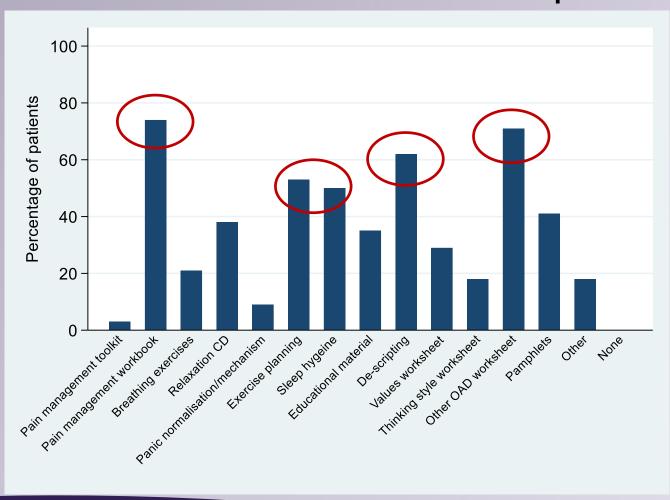
Referral to communitybased services:

- Physiotherapy
- Relaxation and mindfulness group



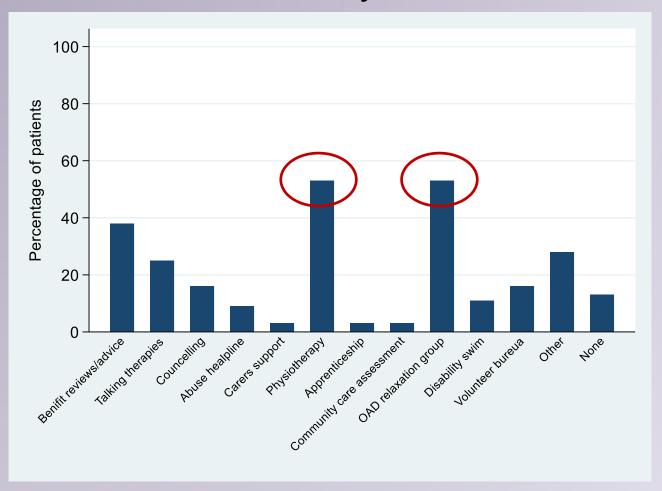


Results – within service components





Results – Community based services





Results – positive experiences

- Tailored to individual needs (especially open-ended length)

 ((Project worker 1))'s been trying to sort of tailor his approach and his advice, etc

 to my needs rather than trying to push me into a box. Service user, Interview 22
- Time to discuss pain management

 It was one on one as well and it wasn't rushed. If you had something to say that he would just sit there or advise or listen. Service user, Interview 21
- Relationship and communication with project worker

 I think the strength of the service is probably having the right person doing it
 actually. I think someone who you know is passionate about what they're doing, and
 able to engage the patient and make them believe in it is really important. GP,
 Interview 20
- Alternative to the traditional medical model of managing pain
 I think it's starting from psychological view point and trying to engage them, rather
 than completely medicalising their pain. GP, Interview 20





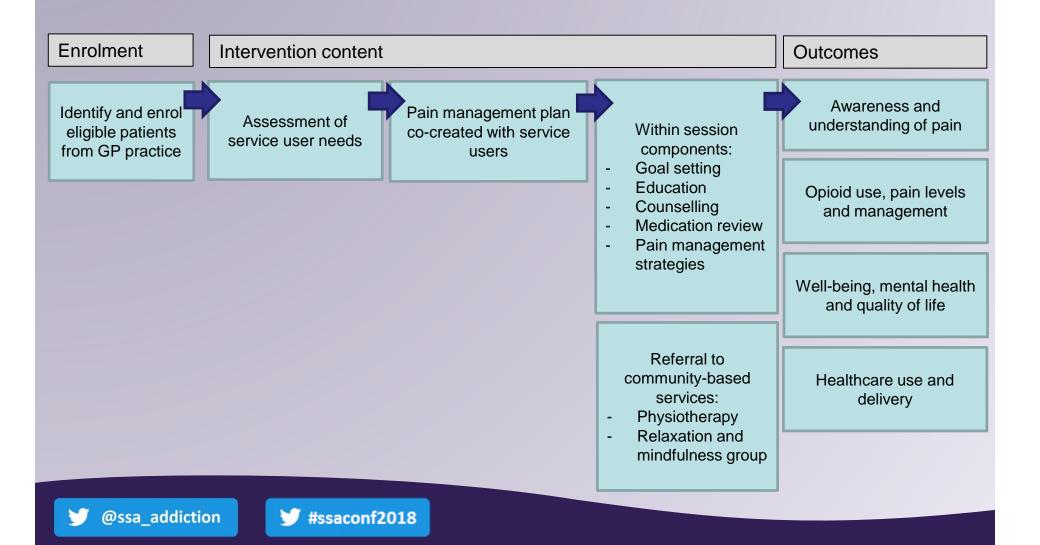
Results – negative experiences

- Delays accessing community based services
- Insufficient GP support and communication for patient and project workers I think it is important if you're reducing that you are, I mean not to get special treatment, but you are able to have access to a doctor, even if it's just a phone call to say, you know, can you help me. Service user interview 9
- Negative psychological effects
 In the early days I did find it quite difficult because when you're talking about your pain and your lifestyle, it's just highlighting how bad you feel. Service user,
 Interview 2
- Slow pace of progress
 It would be nice if it was a **little bit quicker** but he has to understand what my problems are before he can really plan to do anything about them so, it is fine Interview 4





Intervention





Results – awareness and understanding of pain

Greater understanding of pain, what opioids do and their effectiveness for chronic pain treatment

There was quite a bit of **information that I didn't realise** which was quite good (...) mainly about **how the pain sort of works**, how it sort of – **the different sort of systems within your body**, how it reacts on them... Service user, Interview 8

Tracking patterns in pain and opioid use → recognise when opioids were not taken in response to pain levels

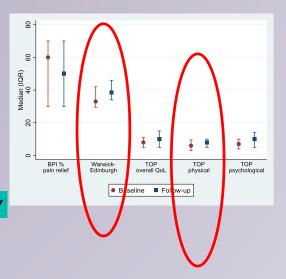




Results – wellbeing and quality of life

Higher = better

I mean It sange ally an open painful if I'm being equite the the morphine reduction and it's quite hard 226648 as well, you know, becaused by as well are twenty something years. Service user, Interview 22 (41%) improved by 8 points or more



BPI = Brief Pain Inventory, TOP = Treatment Outcomes Profile

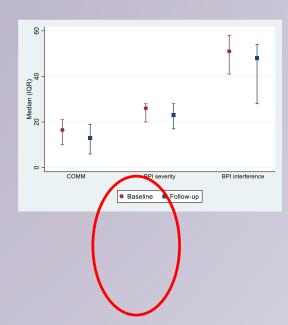




Results – wellbeing and quality of life

Lower=better

- Score ≥9 = opioid misuse
- Baseline = 24/28 (86%) service users 'misusing'
- Follow-up = 15/22 (68%) at follow-up



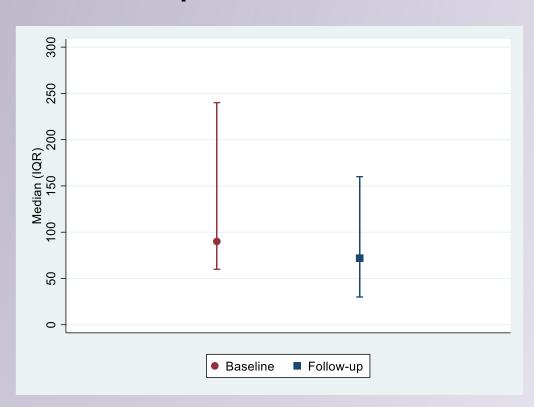
COMM = Current Opioid Misuse Measure, BPI = Brief Pain Inventory





Results – Prescribed opioid dose

- Baseline = **90mg** (IQR 60 to 240)
- Follow-up = **72mg** (IQR 30 to 160) (p<0.001)
- **15** = reduced dose (3 reduced to 0)
- 19 = no dose change
- 0 = increased dose



Lower=better





Results: Healthcare use and delivery

- Reductions in GP consultations reported by GPs and service users
- Pilot did not save GPs' time
- GPs described greater consideration of prescribing appropriateness







Implications / recommendations

- Important to keep the service individually tailored
- Project worker and relationship with service user = <u>key ingredient of service</u>
 - Project workers concerned about running the service with high numbers of service users and short appointment times
- GPs require funding to support future involvement
 - Clinical supervision
 - GP identification and referral of eligible patients
 - Patient review meetings





Conclusions

- Pilot service model has shown promising results
 - Acceptable to service-users
 - Improvements on most health, well-being and QoL outcome scales
- Similar service models may help address and prevent misuse of opioid analgesics for the treatment of CNCP
- Interventions are also required to support changes in GP prescribing practices
- A randomised controlled trial is needed to test the effects of this type of care-pathway on opioid dependency and pain management







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