Sources and Impact of Time Pressure on Opioid Management in the Safety-Net

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Purpose: This study sought to understand clinicians’ and patients’ experience managing chronic non-cancer pain (CNCP) and opioids in safety-net primary care settings. This article explores the time requirements of safer opioid prescribing for medically and socially complex patients in the context of safety-net primary care.

Methods: We qualitatively interviewed 23 primary care clinicians and 46 of their patients with concurrent CNCP and substance use disorder (past or current). We also conducted observations of clinical interactions between the clinicians and patients. We transcribed, coded, and analyzed interview and clinical observation recordings using grounded theory methodology.

Results: Clinicians reported not having enough time to assess patients’ CNCP, functional status, and risks for opioid misuse. Inadequate assessment of CNCP contributed to tension and conflicts during visits. Clinicians described pain conversations consuming a substantial portion of primary care visits despite patients’ other serious health concerns. System-level constraints (eg, changing insurance policies, limited access to specialty and integrative care) added to the perceived time burden of CNCP management. Clinicians described repeated visits with little progress in patients’ pain or functional status due to these barriers. Patients acknowledged clinical time constraints and reported devoting significant time to following new opioid management protocols for CNCP.

Conclusions: Time pressure was identified as a major barrier to safer opioid prescribing. Efforts, including changes to reimbursement structures, are needed to relieve time stress on primary care clinicians treating medically and socially complex patients with CNCP in safety-net settings. (J Am Board Fam Med 2019;32:375–382.)

Keywords: Chronic Disease, Chronic Pain, Grounded Theory, Minority Health, Opioids, Primary Health Care, Substance-Related Disorders, Vulnerable Populations

It is estimated that at least 11.2% of American adults experience chronic pain.1 Chronic non-cancer pain (CNCP) is a major cause of disability in the United States.2 The co-occurrence of CNCP, substance use disorders, and other chronic conditions make treatment of CNCP challenging. Pain competes with and tends to dominate other, less symptomatic conditions.3,4 Negotiations about

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opioid therapy for CNCP are shaped by the need to manage an individual’s pain while reducing or avoiding the personal and community-level harms associated with opioids. These negotiations may create conflict in the clinician-patient relationship and are fraught with uncertainty about opioid efficacy and safety.

While guidelines note that patients with substance use are at higher risk for opioid misuse than patients without substance use histories, patients with past or present substance use have historically been more likely to be prescribed opioids and to transition to chronic opioid therapy. Low-income patients with comorbid substance use and CNCP commonly receive treatment in safety-net primary care settings. Safety-net primary care settings serve low-income patients regardless of ability to pay. These clinics often lack resources for specialty referral, nonpharmacologic CNCP treatments, and close monitoring recommended by opioid prescription guidelines. Clinicians working in safety-net settings report a greater sense of workplace chaos and time pressure, which are associated with health care errors and clinician burnout.

Recent efforts to reform opioid prescribing practices are oriented toward the creation and implementation of standardized guidelines. Recommended practices include: limiting the duration of opioid prescriptions; consulting a statewide prescription drug monitoring database; and use of structured pain assessments, functionality assessments, pain agreements, and urine toxicology screening.

A handful of studies and several professional commentaries cite time as a barrier to achieving guideline-concordant opioid prescribing in primary care. Time scarcity in primary care is widely acknowledged, yet its influence on management of CNCP and opioids is understudied in the current literature. None of these studies, for instance, have elaborated the sources and implications of time pressure for patients and clinicians who are trying to manage CNCP, substance use, and other comorbid chronic conditions. This article addresses this gap using qualitative methods to evaluate the experience of time pressures related to CNCP and opioid management in the safety net. Drawing on direct clinical observations and in-depth interviews, we describe the temporal experiences of safety-net primary care clinicians and their patients with co-

Table 1. Patient Participant Characteristics

| Characteristic                     | N (%) |
|-----------------------------------|-------|
| Age (years)                       |       |
| 55+                               | 21 (46)|
| 40 to 54                          | 18 (39)|
| 25 to 39                          | 5 (11) |
| Not recorded                      | 2 (4)  |
| Sex                               |       |
| Female                            | 25 (54)|
| Male                              | 21 (46)|
| Race/ethnicity                    |       |
| African American                  | 28 (61)|
| White                             | 14 (30)|
| Latino                            | 3 (7)  |
| Not recorded                      | 1 (2)  |
| Substance use (past or present)*  |       |
| Cocaine                           | 30 (65)|
| Alcohol                           | 26 (57)|
| Marijuana                         | 21 (46)|
| Methamphetamine                  | 14 (30)|
| Heroin                            | 11 (24)|
| Nonprescribed opioids             | 3 (7)  |

*Patients may have reported use of more than one substance

Table 1. Patient Participant Characteristics

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morbid substance use and CNCP. We elucidate contextual factors that contribute to the perception and experience of time scarcity and its effects on quality of CNCP management.

Methods

Recruitment and Sample Selection

We recruited and interviewed 23 primary care clinicians from 6 urban and suburban safety-net primary care clinics across 4 counties in the San Francisco Bay Area by using a purposeful sampling approach. Purposive sampling in qualitative research is the identification and selection of information-rich cases to answer study questions. Four of the 6 sites were family health centers. We defined a clinician as a physician, nurse practitioner, or physician assistant who provides longitudinal primary care. In California, nurse practitioners and physician assistants can prescribe Schedule II, III, IV, and V controlled substances, including opioids.

For each participating clinician, we recruited between 1 and 4 of their patients who had both CNCP and a history of past or current substance use (see Table 1). Potential patient participants were identified by their primary care provider based on these criteria. We assessed patients’ de-
mographics, prescribed pain medications, and substance use with a questionnaire that was developed by the researchers. Clinicians and patients received a $50 gift card for their participation. One clinic did not allow clinicians to accept compensation. All participants provided written informed consent. This study was approved by the institutional review board.

The research team included an attending internist, a professor of nursing with expertise in pain management, and medical anthropologists and sociologists. The clinicians provided guidance and expertise in the development of the interview guide and contributed to the data analysis. Data collection was conducted by nonclinician study staff with training and experience in qualitative research.

Data Collection
Study researchers conducted semistructured, open-ended interviews with clinicians about their experiences caring for patients with CNCP and substance use, their perceptions of the risks of opioids, and their experiences with the implementation of opioid monitoring policies. We conducted semistructured, open-ended interviews with patients about their experiences with CNCP and substance use, their perceptions of the risks of prescription opioids and illicit drugs, experiences with opioid monitoring policies, and their impressions of their clinicians’ views on opioid therapy. We recorded interviews and transcribed them verbatim. We continued recruitment and interviews until we reached thematic saturation, meaning that no new themes emerged from ongoing data analysis.19

In addition, we observed and audio-recorded 26 clinical encounters involving 19 dyads of participating clinicians and patients. Observations occurred during the next appointment between each dyad after we had interviewed each clinician and patient separately. The observer did not interact with the dyad during the visit. The audio recordings were transcribed verbatim.

Data Analysis
We used a modified grounded theory approach to code and analyze interview and clinical observation transcripts using ATLAS.ti.20,21 We combined deductive codes, based on broad topics from the semistructured interview guide, with inductive codes (ie, those that emerged from the data, analytic discus-
sions, and memos). After successive iterations of independently coding and discussing transcripts, we developed distinct codebooks for patients’ and clinicians’ interviews and clinical observations. Two researchers coded each transcript. We resolved coding discrepancies through consensus. For this analysis, SS reviewed all interview and clinical observation transcripts and reviewed coded data related to clinics’ and patients’ resources, continuity, and medical complexity. The research team discussed emergent themes.

Results
Time pressure was a major barrier to effective management of CNCP. Related themes that emerged included: CNCP management as a drain on clinicians’ time and emotional energy (see Table 2), pain and opioids drawing time and attention away from other patients and health concerns, insurance requirements (eg, narrow and changing formularies, prior authorization for medications), short visit times and lack of continuity, and the effects of time pressure and opioid prescribing policies on patients. The influence of time pressure was so strong that one clinician stated: “I think maybe the over-prescribing [of opioids] is a reflection that we have no time with people.”

Pain as a Time Drain: Clinicians’ Perceptions
Many clinicians described CNCP management, and particularly opioid prescribing and monitoring, as time-intensive and stress-inducing in the context of short visits for complex patients (Table 2). Many noted the tendency for patient-clinician interactions to feel like a “struggle,” fraught with conflict. Clinicians felt that CNCP patients were “taking” time away from other patients,” as well as from the same patients’ other medical needs. Inadequate functional assessment initially set clinicians up for ongoing conflict with patients.

One clinician observed that clinicians’ perceptions of time spent on opioid management reflected the emotional intensity of CNCP management. She and her colleagues perceived that CNCP patients on chronic opioid therapy demanded a significant amount of mental and emotional energy. She identified intensity of suffering and lack of improvement as factors that contributed to this perception.
Theme: The intensity and chronicity of patient suffering

CNSP, chronic noncancer pain.

“My pain management patients drain my time. I don’t want to say ‘drain’ but it’s true, at least that’s how I feel. My perception is that they drain my time and that puts me behind in the rest of my schedule, because there’s always a struggle. . . And that takes away from the other patients that I need to spend more time with.”

“From a patient’s perspective, pain and mental health and well-being are the most, are frequently the most pressing issues, and understandably so. But there also are other big things that could be going on with people from a health perspective that are important, too, and it all needs to fit into the time. That’s hard.”

Theme: Pain and opioid management are often fraught with conflict

“I went to that [CME] and [they] said, ‘You got to spend at least an hour [in] the first visit with each [CNSP] patient,’ and all these internists were saying, “Okay, yeah, no problem.” And they’re going to bill the patient for the time. I’m working in a Medi-Cal [Medicaid] clinic, I can’t do that. So, I went, ‘Yeah, in an ideal world.’ So, I heard all this stuff that I’m supposed to be doing, taking a complete history, complete addiction history. . . But I don’t have time to do what I am supposed to do in terms of proper treatment, opioid treatment, so I cut corners a bit.”

Theme: Reimbursement structures limit time for pain management in the safety-net

“[Any] time I get a new patient who has pain it’s like the first visit. . . as soon as I can get to the place where everything else feels stable enough for me to talk about the pain, that’s all I’ll do. Because I think that initial pain assessment is so important and often times lost to me when you inherit [another clinician’s patient]. . . You need time to listen. . . it takes more than fifteen minutes often. . . I just see that as such an important initial step in coming up with good plans and setting up people for expectations.”

Theme: Visit duration and availability pose challenges to pain management

“[A] new patient for us should be a 15-minute visit but there’s so many new patients sometimes that new patients will be put into a 15-minute visit. And even 30 minutes is not enough for a lot of complex issues. . . And, yes, we do often have a culture where we deal with one or two problems on one issue because we don’t have the time and we’ll bring them back [for a follow-up visit].”

“[It’s] very hard to get an appointment in the clinic [when] you want one, and so one defense mechanism that almost all the doctors there use is to see people more frequently than they actually need to because everyone’s afraid of their patients falling through the cracks and that just makes the problem [of clinical availability] worse.”

Theme: Insurance, Inherited Patients, and the 15-Minute Visit: Contextual Factors

Clinicians emphasized that the structure of the safety-net health delivery system contributed to the challenges they faced in treating patients with CNCP (Table 3). For example, several providers cited narrow and changing formularies and lack of insurance coverage for nonpharmacologic treatments as barriers to treating patients with CNCP. One of the most salient contextual factors was the short duration of visits.

One clinician reported that a continuing medical education session alerted him to how limitations in the safety-net reimbursement structure placed constraints on the “proper treatment” of CNCP. This clinician felt like it was not the absence of adequate

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**Table 2. Clinicians’ Perspectives on Pain and Opioid Management**

**Table 3. Contextual Factors Identified by Clinicians**

| Theme: Pain management takes time from other patients and health concerns |
| --- |
| CNSP, chronic noncancer pain. |

Furthermore, this clinician referenced “refill appointments.” In the county health systems within which the study took place, prescriptions for opioids schedule II, III, and IV require a signed paper prescription that cannot be transmitted by fax. Schedule II medications can only be prescribed in 30-day increments without refills. Refill appointments refer to monthly visits to the clinic, separate from a regular primary care appointment, during which patients pick up a secure prescription to take to the pharmacy. Some patients’ tendency to miss standard primary care visits but then consistently pick up refills was frustrating and discouraging for clinicians.
assessment tools that kept him from providing
good care but lack of reimbursement for clinical
time he would need to use them.

Other clinicians also emphasized the challenges
of conducting CNCP assessments and treatment
planning during short clinical visits. For example,
another clinician described quickly working thr-
ough a patient’s other medical conditions to try to
create enough time to listen to them describe their
pain. She felt this time was particularly important
early on to set the course for treatment. Clinicians
reported that these initial conversations were high
stakes because they affected the course of patient-
clinician relationships and future clinical encoun-
ters.

Several clinicians mentioned “inheriting” other
clinicians’ patients (Tables 2 and 3). Although
many clinicians, in line with current guidelines,
avoided initiating opioids for CNCP patients, cli-
nicians were seeing patients on chronic opioids
who were new to them. In short visits, they strug-
gled to orient themselves to the history behind
patients’ current opioid regimens and to establish
the rapport necessary to discuss opioid tapering and
alternative pain management strategies. Lack of
continuity was a significant barrier to optimal
CNCP management.

These clinicians’ comments highlight that pain
and opioids are separate but related issues. It was
difficult for patients and clinicians to address concerns
about multiple health, pain, and opioid-related con-
cerns in a single visit. Insurance issues and difficulty
accessing specialists and other services consumed a
large portion of some patient encounters.

Responding to the medical and social complexity
of their patients, one solution that clinicians had for
the time shortage was to schedule frequent fol-
low-up visits. This scheduling practice, in turn,
created challenges in terms of patients’ access to
care. Some clinicians scheduled frequent visits with
socially vulnerable patients to bolster continuity,
concerned that a lack of appointments available on
short notice would prevent patients from accessing
care when needed. As described by one clinician in
Table 3, this scheduling strategy exacerbated lim-
ited appointment availability.

“I am on a time limit with you”: Patients’
Awareness of Time Challenges

Some patients recognized and responded to the
time burden on clinicians. For example, one patient
teled her clinician for interjecting several times as
she presented her concerns:

Patient: Right, he said it was like—
Clinician: Tendinitis, tendinosis?
Patient: Something like that in the, in the foot,
he said that.
Clinician: Okay. Which foot did he work on,
both of them?
Patient: No, that is why, we fixin’ to get to that
point.
Clinician: Okay, I will let your roll out your
story.
Patient: You know... because I am on a time
limit with you.
Clinician: That is okay, you are the last one.

This patient had an appointment toward the end
of the clinic session. Her clinician did not refute the
idea of a time limit. Rather, she said that she could
be more flexible because no additional patients
were waiting.

Another patient contrasted her clinician to other
clinicians who act “like drug dealers,” prescribing
without careful discussion nor assessment (Table 4).
At the same time, she was aware that her clinician was
overwhelmed. Another patient with a complex med-
ical history, including major surgery, spoke of the lack
of continuity she experienced and how her health
improved once she had one steady primary care cli-
nician. Patients were critical of the effects of short
visits and lack of continuity on their care.

Time Burdens for Patients with CNCP

Many patients’ lives were structured around fre-
quent medical and other appointments. When
members of the study team scheduled and con-
ducted clinic observations, we learned about the
patients’ many appointments. In one case, because
of the way secure prescriptions were managed in his
clinic, a patient had separate appointments on the
same day, 1 for a regular visit with his primary care
clinician and another to pick up his prescription.
Frequent visits, combined with requirements to
come in person to pick up signed paper opioid
prescriptions, were burdensome for many patients.

Several patients argued that clinicians should be
able to distinguish those individuals who are mis-
using medications from others. One patient, for
example, explained why patients like him should
not be burdened with extra trips to the clinic to
pick up their prescriptions (Table 4). As discussed
above, clinicians in this setting can no longer “call
Table 4. Patients’ Perspectives on Pain and Opioid Management

| Patient Perspectives |
|----------------------|
| **Theme: Patients sense that providers are rushed** |
| “Some providers actually care about what’s wrong with a person. My new provider is like... I think he’s overwhelmed with how many patients he has, but at the same time he still tries to listen to you. [He] doesn’t just go, ‘Here you go, here’s your [opioid], go, bye.’ You know, he does pay attention but I think he’s really overwhelmed... you can just see it in his face.”
| **Theme: Continuity is important for pain and opioid management** |
| “Every time I came to the clinic, it was always a new doctor. So, I would always have to explain my story all over again to a new doctor. . . . [My current clinician] said that she would take me. And so ever since then [my clinician] got me off of all my medicine. . . . I’m actually getting [better] . . . But with [the other doctors] I never got medicine [opioids]; I got medicine twice and they’re like, ‘Here, just take a couple,’ and that would be it. But for me it wasn’t just, ‘Give me medicine to make the pain go away.’ I want help to make sure if there’s something that they can do to make the pain go away without medicine. That’s what me and [my clinician] are trying to figure out right now.”

Research has shown that recommended practices can support clinicians in their efforts to manage opioid-related risks. Clinicians felt that new strategies were needed to increase the time available for CNCP and opioid management and improve the quality of care for medically complex patients with CNCP and substance use who are already receiving opioids. Alternative payment models, such as bundled payments and capitation, are becoming more common and could support the reallocation of physician time and the incorporation of more interdisciplinary care in safety-net clinical settings. At the same time, low payment rates and the mix of payers and incentives leave patient visit volume a primary driver of financial sustainability in safety-net primary care. Furthermore, research has warned of the unintended consequences of pay-for-performance for safety-net systems. Alternative reimbursement structures that support safety-net primary care should be explored to allow more time and continuity of care for patients with CNCP.

Many emerging opioid management policies and procedures increase the time and organization required for patients to obtain pain medications while structural barriers (eg, insurance limitations, access to referrals, and transportation) limit access to nonpharmacological treatments. Concerns over
opioid safety must be balanced with the burden, including time demands, that regulatory practices place on patients. Such burdens may unintentionally undermine the goal of increasing patient function and well-being.38–40

This study has several limitations. Due to the qualitative nature of the study, the sample size was small, limiting generalizability. We focused on clinicians in a primary care provider role, excluding other individuals who play an important role in CNCP management (eg, medical assistants, nurses, pharmacists, and social workers). We did not use standard measures of patient or clinician experience and we did not measure time use but relied on participants’ reports to better understand their perceptions.

Conclusion
Time pressure is a significant obstacle to effective management of CNCP in safety-net primary care clinics. Current efforts to develop tools and policies that facilitate the assessment and treatment of pain and management of opioids need to be tailored to this setting. Payment models that reimburse for the time necessary for CNCP assessment would help to alleviate time pressure as a barrier to adequate and appropriate pain management. As changes are implemented, caution is needed in addressing the ways in which the time demands of new policies impact care for socially vulnerable, medically complex patients in safety-net settings.

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