Providers’ perceptions of the implementation of a performance measurement system for substance abuse treatment: A process evaluation of the Service Quality Measures initiative

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Background. In South Africa, concerns exist about the quality of substance abuse treatment. We developed a performance measurement system, known as the Service Quality Measures (SQM) initiative, to monitor the quality of treatment and assess efforts to improve quality of care. In 2014, the SQM system was implemented at six treatment sites to evaluate how implementation protocols could be improved in preparation for wider roll-out.

Objective. To describe providers’ perceptions of the feasibility and acceptability of implementing the SQM system, including barriers to and facilitators of implementation.

Methods. We conducted 15 in-depth interviews (IDIs) with treatment providers from six treatment sites (two sites in KwaZulu-Natal and four in the Western Cape). Providers were asked about their experiences in implementing the system, the perceived feasibility of the system, and barriers to implementation. All IDIs were audio-recorded and transcribed verbatim. A framework approach was used to analyse the data.

Results. Providers reported that the SQM system was feasible to implement and acceptable to patients and providers. Issues identified through the IDIs included a perceived lack of clarity about sequencing of key elements in the implementation of the SQM system, questions on integration of the system into clinical care pathways, difficulties in tracking patients through the system, and concerns about maximising patient participation in the process.

Conclusion. Findings suggest that the SQM system is feasible to implement and acceptable to providers, but that some refinements to the implementation protocols are needed to maximise patient participation and the likelihood of sustained implementation.

In South Africa (SA), a large unmet need exists for substance abuse treatment.11 Negative beliefs about the quality of services are a major deterrent to substance abuse treatment initiation,12 with studies demonstrating that people with untreated substance use disorders generally perceive available treatment services to be of limited effectiveness.13-15 Evidence of the quality and effectiveness of substance abuse treatment can help to counter these negative perceptions; however, these data are lacking for SA services.14 To address this gap, a consortium of stakeholders developed a performance measurement system for SA’s substance abuse treatment services. When implemented routinely, such systems are able to produce data that can be used to monitor the quality of services, identify targets for quality improvement, and assess the impact of interventions designed to improve service quality.13-15

This performance measurement system, known as the Service Quality Measures (SQM) initiative, emerged from a lengthy development process. This process involved the identification of key domains on which service quality should be assessed, selection of indicators for each domain, and methods for measuring each indicator; the development of a patient survey for measuring some of these indicators; and two pilot tests of this survey to ensure a parsimonious, psychometrically valid measure. This developmental process has been described in detail elsewhere.16-18

The finalised system comprises three tools: the SA Community Epidemiology Network on Drug Use (SACENDU)’s admission form that collects sociodemographic and substance use history information and is completed on enrolment into treatment, the SA Addiction Treatment Services Assessment (SAATSA) that accumulates patient-reported data on perceived outcomes and quality of services, and a discharge form that gathers data on the type of services received and the patient’s response to treatment. To support implementation we developed a toolkit for providers, specifying in detail the protocols to be followed when implementing this system. In developing these protocols, we were guided by providers’ requests for simplicity and congruence with existing administrative practices as much as possible.19

In 2014, we conducted a pilot implementation of the system at six treatment facilities to identify ways in which the protocols could be improved prior to implementing the system on a larger scale. This article describes providers’ perceptions of the feasibility and acceptability of implementing the SQM system, including barriers and facilitators to implementation.
Methods
Study design and sites
We conducted qualitative in-depth interviews (IDIs) with providers from six treatment facilities to understand their experiences of implementing the SQM system. Two of these sites (one inpatient and one outpatient) were located in KwaZulu-Natal and the other four (two inpatient and two outpatient) were in the Western Cape Province. These facilities were purposefully selected as sites for this pilot implementation, as they serve diverse population groups with dissimilar patterns of drug use and have different types of treatment infrastructure.

Sample
Managers of the selected sites were asked to identify at least two staff members to participate in the IDIs. To be eligible, they had to have direct experience of implementing the SQM system. The final sample comprised 15 IDI participants, who represented a diverse range of roles and included administrators, clinical psychologists, social workers, counsellors and managers (Table 1).

Analysis
Qualitative data analysis was conducted using the framework approach,[13] which comprises five stages (familiarisation, identifying a thematic framework, indexing or coding, charting or mapping, and interpretation of the data). Coding occurred iteratively; as new themes emerged in the analysis all relevant information was retrieved and examined for further coding designations.

All transcripts were coded independently by two project staff who met after every two transcripts to compare notes. Coding discrepancies were resolved by discussion. Intercoder reliability checks were conducted, with a kappa score of 0.77 being obtained. We used NVivo 10.0, a qualitative software program, to aid data analysis.

Results
Experiences of implementation
Participants generally reported positive experiences of the implementation process. They described the system as ‘easy to implement’ and the implementation process as ‘understandable’. As one participant stated: ‘Implementing the SQM toolkit was a valuable experience and quite user-friendly’.

Feasibility of implementation and acceptability of the system for providers
With the exception of one participant, who felt that there was a mismatch between the particular structure of their treatment services and the SQM implementation process, almost all participants reported that the SQM system was feasible to implement in their programme as part of routine services. As one participant reflected, ‘It’s feasible, it seemed like a hell of a thing at the beginning, but it’s just routine. We have so many things to be filled out, forms, and if you just train people properly that’s fine’.

Participants viewed the SQM initiative as acceptable because they thought implementing this system would help them to improve their services. As one person stated, ‘I think it’s a good thing because it gives us that feedback, you give us the analysis of data and it can help, and we always want to improve our services as much as we can. Similarly, another stated, ‘I think it is actually nice to have something like this because it tells you about the service that you are rendering and can help improve services’. The acceptability of the system is also reflected in the finding that several of the facilities wanted to continue to implement the system beyond the pilot period.

Obstacles to implementation
Although most participants reported that their patients were positive about participating in this system and appreciated being asked ‘to express their views on treatment’, they also mentioned some barriers to patient participation. In this pilot project, patients were introduced to the SQM system on their initial contact with the treatment facility. Participants reflected that this was not the optimal time to introduce the initiative as some patients felt ‘bombarded’ and ‘overwhelmed’ by the screening and administrative procedures and therefore ‘just refused outright’ to participate in the SQM process. As one participant explained, ‘We do that [introduction] on intake usually and we sometimes sit with psychotic or paranoid patients, or extremely anxious patients and we can’t really do that in the beginning with them’.

Another obstacle to patient participation was the requisite level of literacy necessary to complete the SAATSA. Participants noted that although most patients found it ‘easy’ to complete the form, some required assistance, which might place considerable time demands on treatment staff. As one participant reflected, ‘There were other patients who needed help and assistance and I had to explain every single thing’.

Participants also mentioned that although the implementation protocols were ‘well thought out process’, there was a lack of clarity about when each element of the SQM system should be completed. Participants described their initial uncertainty about integrating the system into their usual clinical care processes: ‘We had a big question mark as to where exactly and in which week
to begin implementation. And we actually had to modify the
treatment programme. So that was one of the barriers we had to
overcome. Similarly, a participant from another facility spoke of
the challenges of knowing when to complete forms: ‘The challenge
initially was I think making sure that staff understood exactly
what they had to [do] and when they had to do it. The challenges
of when exactly you apply the initial steps and the timing in all
of that.’

Several participants mentioned difficulties in keeping track of
when patients needed to complete their SAATSA forms. This was
partly due to the lack of a system for reminding providers that
patients were due to complete the form, which resulted in counsellors
forgetting to ask patients to complete the SAATSA. Irrespective of
facility size, difficulties in managing the system intensified when
facilities were busy: ‘Remember we have got a lot of clients that come
in and a lot of clients are completing phases, so it is hard to keep track
of clients especially after they have completed the whole programme.
So, they have gone and you’ve forgotten to get them to fill it in, there’s
no way we’re going to get them back.’

Participants also reported difficulties in remembering to complete
the discharge form. Some treatment sites kept patient folders open for
many months after they last had contact with a patient, which delayed
the completion of the discharge form. In response to this difficulty,
some of the implementing sites developed a tracking system that
flagged when patients were due to complete the SAATSA: ‘We have
a specific monitoring tool in place … it flags any clients that are due
for their SAATSA. And then when it comes time for them to be
discharged then the counsellor knows automatically when to do the
discharge for the SQM project.’

In a few instances, participants thought that the length of time it
took to receive SQM forms from the SQM project team hindered
the implementation process. One participant reported that their
administrative staff were frustrated when it took longer than expected
to receive the forms. Other participants mentioned not receiving
enough SAATSA questionnaires in languages other than English.
These implementation support issues potentially reduced the number
of patients who completed the SAATSA questionnaires. Participants
suggested that better communication with administrative staff with
regard to their need for additional forms could resolve this issue.

Facilitators of implementation
All participants reported that the training was ‘very good’ and
mentioned how it helped to facilitate implementation of the system.
Some participants were pleased that all staff in the facility received
training in the system. According to these participants, this reduced
ambiguities and enhanced staff support for the implementation
process: ‘I think originally it was going to be some of us would go
and teach the others and then extra space was created for other
people. I think that was a very wise decision because for us to second-
hand train other people when we have just learnt it is not good and
different things, different questions come up you know. People hear
different things. The fact that everybody attended the training, you
know, they are very much on board.’

Similarly, participants reported that the technical support provided
by the SQM project team aided implementation. They approved of
the SQM toolkit and reported using it as an important reference guide
during the implementation process. They described the technical
support as accessible and readily available. As one participant
explained, ‘What I think was very helpful, whenever I had a question
if I didn’t know something, there was that open communication. So
I could pick up the phone and say we don’t know, we’re confused, or
please clarify and there were no issues with that.’ A few participants
suggested that additional site visits for fidelity and quality assurance
purposes may further enhance the implementation process.

Discussion
This article examined the feasibility and acceptability of implementing
the SQM system in SA substance abuse treatment facilities. Providers
from the full spectrum of available treatment services generally
viewed this performance measurement system positively, suggesting
that it was acceptable to providers. More specifically, they seemed to
appreciate how implementing the SQM system would help them to
attain their service delivery goals and could benefit their patients.
This finding is encouraging, as the acceptability of a healthcare
system innovation is highly predictive of its adoption.[14]

While the vast majority of participants reported that the SQM
system was feasible to implement as part of standard practice in their
resource-constrained settings, they did identify barriers to
implementation and areas where the implementation protocols
could be refined to facilitate ease of use. They highlighted how the
current practice of introducing patients to the SQM system
on their first contact with the treatment facility deterred patient
participation. They explained how patients were often overwhelmed
by administrative processes on entry into treatment and/or the effects
of withdrawing from substances and therefore were unwilling to
participate in additional, voluntary activities. Based on this feedback
and to maximise patient participation, the SQM project team has
moved the time at which patients are introduced to the initiative to a
later point in the clinical care pathway.

Related to this, providers described how they were initially
uncertain how to integrate this system into their usual clinical and
administrative processes. Although each provider received a toolkit
outlining implementation guidelines and had an opportunity to
participate in training, the guidelines did not address the many
practical implementation questions that arose once the facilities
started implementing the system. As the SQM team was available
to answer these questions and provide facilities with support for
implementation, this probably did not jeopardise the feasibility
of implementation. However, in facilities where there were many
unresolved queries about the implementation process, it took longer
for the SQM system to become fully implemented, which affected the
number of patients who participated in the initiative. To address this
gap and ensure ease of use, we plan to expand our training materials
and implementation guidelines to include more practical information
about when and how to implement the SQM system.

Providers also reported difficulties in keeping track of when each
element of the SQM system was due for completion. Currently, the
SQM is a pen-and-paper system that relies on treatment providers to
recall when patients are due to complete the SAATSA. Remembering
when to complete forms was more difficult when treatment facilities
were very busy: during these periods some patients were not given
an opportunity to complete the form. This raises concerns about the
extent to which the eligible patient population is covered by the SQM
system. Some treatment sites had developed their own electronic
patient management system with built-in reminders for when each
SQM form is due for completion; these appear to resolve difficulties
with remembering when to complete forms.

We have considered transitioning to an electronic platform to address
this challenge, as such a platform will provide for electronic reminders
and have the added benefit of reducing the workload of treatment
providers. Although the SAATSA is completed by the patients, in cases
where they have low literacy levels treatment centre staff help them by
reading the questions and recording their answers, which is very time
consuming. This is a concern, as findings from earlier work suggest
that excessive burden to providers will threaten the sustainability of any performance measurement system. An electronic system that allows for audio-computer-assisted personal interviewing could help with this difficulty by enabling even functionally illiterate patients to complete the SAATSA. Apart from reducing the workload of treatment providers, such a system would have the added benefit of reducing social desirability bias. It would also obviate providers’ reliance on the SQM team for paper forms and frustration when receipt of forms is delayed. Despite the benefits of an electronic system, we are challenged by the fact that many treatment sites do not have a sufficient number of computers to implement an electronic version of the SQM system.

While finding the resources to move the SQM system onto an electronic platform is an important goal for this initiative; in the short term we are trying to identify ways of assisting treatment providers to remember to implement the system. These include helping treatment sites to develop their own systems for tracking patients through the care pathway and also providing treatment sites with more regular on-site support.

Findings from this process evaluation should be considered in the light of a limitation synonymous with qualitative research. As this study was limited to treatment providers from two of the nine provinces in SA, findings may not be generalisable to other provinces. However, as our sample included treatment providers across the entire spectrum of facilities available in the country, we are confident that the concerns raised by our participants will be broadly applicable to all substance abuse treatment providers.

Conclusion

Limitations notwithstanding, this process evaluation yielded valuable information that will be used to strengthen the SQM initiative. Firstly, it highlighted that substance abuse treatment providers perceived the SQM system as acceptable and feasible to implement. Secondly, several areas were found where the implementation protocols should be refined prior to widespread implementation of this performance measurement system. These refinements include changing the timing of the implementation to enhance the likelihood of patient participation, introducing processes to remind providers to implement each element of the SQM system, and extending the provider toolkit and implementation guidelines to address practical questions about how to integrate the system into the clinical care pathway. Finally, as there was consensus that the training and ongoing support provided for implementation helped mitigate some of the barriers to implementation experienced by providers, training and support should form a critical part of the roll-out of this performance measurement system.

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