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Integrated opioid substitution therapy and HIV care: a qualitative systematic review and synthesis of client and provider experiences

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Disclosure statement

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Key words – People Who Inject Drugs, OST, HIV, ART, Integration
Abstract

People who use drugs in many contexts have limited access to opioid substitution therapy and HIV care. Service integration is one strategy identified to support increased access. We reviewed and synthesized literature exploring client and provider experiences of integrated opioid substitution therapy and HIV care to identify acceptable approaches to care delivery. We systematically reviewed qualitative literature. We searched nine bibliographic databases, supplemented by manual searches of reference lists of articles from the database search, relevant journals, conferences, key organizations and consultation with experts. Thematic synthesis was used to develop descriptive themes in client and provider experiences. The search yielded 11 articles for inclusion, along with 8 expert and policy reports. We identify five descriptive themes: the convenience and comprehensive nature of co-located care, contrasting care philosophies and their role in shaping integration, the limits to disclosure and communication between clients and providers, opioid substitution therapy enabling HIV care access and engagement, and health system challenges to delivering integrated services. The discussion explores how integrated opioid substitution therapy and HIV care needs to adapt to specific social conditions, rather than following universal approaches. We identify priorities for future research. Acceptable integrated opioid substitution therapy and HIV care for people who use drugs and providers is most likely through co-located care and relies upon attention to stigma, supportive relationships and client centred cultures of delivery. Further research is needed to understand experiences of integrated care, particularly delivery in low and middle income settings and models of care focused on community and non-clinic based delivery.
Background

People who use drugs (PWUD) have limited access to a comprehensive package of HIV care (WHO, UNODC, & UNAIDS, 2012) including Needle and Syringe Programmes (NSP), Anti-Retroviral Treatment (ART) and Opioid Substitution Therapies (OST) (Degenhardt et al., 2014; Mathers et al., 2010). This limited access is compounded by how delivery in combination has synergistic effects (Strathdee et al.). OST, such as methadone and buprenorphine, reduces injecting frequency and subsequent risk of HIV transmission (MacArthur et al., 2012); promotes adherence to, and coverage of, ART (Reddon et al., 2014; Uhlmann et al., 2010); and supports improved ART outcomes (A. J. Low et al., 2016). Whilst addressing political, economic and social barriers to access is necessary (Krüsi, Wood, Montaner, & Kerr, 2010; Wolfe, Carrieri, & Shepard, 2010), a service delivery priority is to integrate OST within a comprehensive HIV care package (Lambdin, Mbwambo, Josiah, & Bruce, 2015; WHO, 2014; WHO & UNODC, 2009).

Whilst integration for OST and HIV care is widely promoted (Sylla, Bruce, Kamarulzaman, & Altice, 2007), there is a need to understand clients and providers perspectives on how to deliver care. Integration – combining service functions (Briggs & Garner, 2006) - can involve a range of strategies (WHO, 2008): e.g. delivery within a single clinic, referrals between clinics or delivery within community settings (Grenfell et al., 2012; Keats et al., 2015; Kennedy et al., 2010; Lucas et al., 2006; Treloar & Rance, 2014; Uyei, Coetzee, Macinko, & Guttmacher, 2011). We have little understanding of what specific approaches to integrated care should be prioritized (Drainoni et al., 2014).

We reviewed and synthesised qualitative research documenting PWUD and provider experiences of integrated OST and HIV care. Qualitative research, and reviews of it, is valuable for understanding how care is experienced which can inform appropriate and acceptable services (Glenton,
Lewin, & Gülmezoglu, 2016; Jones et al., 2014; Leidel, Wilson, McConigley, Boldy, & Girdler, 2015; Treloar & Rhodes, 2009; Tuthill, McGrath, & Young, 2014).

Methods

We systematically searched for qualitative literature and used a thematic synthesis (Jones et al., 2014; Thomas & Harden, 2008; Tso et al., 2016). We included policy reports and grey literatures as a supplementary resource (Grenfell et al., 2013; 2010), in order to identify novel models of service delivery and contextualize and explore the main review findings.

We searched nine academic databases (Medline, Embase, Global health, Social policy and practice, CINAHL Plus, Academic search premier, IBSS, the Web of science, and Scopus) in February 2015. A record of the search is available in supplementary file 1. The generic process involved searching for the terms HIV AND OST AND experiences, along with synonyms. We searched back to 1995 to reflect the change in HIV care owing to the availability of ART. We manually identified additional articles by i) searching reference lists of included articles from the database search, ii) identifying citations of included papers, iii) consulting experts in the field, iv) reviewing relevant journals and v) searching the websites of key organisations and conferences.

Articles were assessed for inclusion by two reviewers according to criteria of: studies using qualitative methodologies (including in the context of mixed methods studies), reporting experiences or preferences of people who use drugs or providers of integrated OST and HIV care (within which we included HIV prevention and treatment); see additional file 1 for detail. For inclusion in the review or as supplementary expert and policy literature for parallel discussion, reviewers discussed whether selected articles met the following standards: i) use of, and transparent presentation of, research methodology,
ii) methodology is appropriate for the aims and objectives of the study. The included citations were assessed using CASP guidelines to support the interpretation of studies (CASP, 2015).

Themes were developed based on major findings in included papers (Thomas & Harden, 2008). The supplementary expert and policy literature was used to further explore themes in the empirical literature. AG and MS initially read and open coded data under findings sections, with iterations of identified themes and emerging analyses distributed to the broader review group for comment. Descriptive themes were then fully coded and developed by AG around first (respondents) and second (citation author) order interpretations based on frequency across the data (Noyes & Lewin, 2011). The emerging analysis was then discussed across the group. Nvivo 10 software was used to manage the analysis.

Each theme was documented by AG using the ‘Confidence in the Evidence from Reviews of Qualitative research’ (CERQual) approach (Lewin et al., 2015) (findings integrated in table 3).

**Results**

Figure 1 summarises the search. Eleven studies were included in the review (table 1). The majority of citations were from the USA (7), and then China, India, Russia and Ukraine. All studies used interviews to generate qualitative data. Most papers were of medium quality; limitations focused on brief accounts of methods, in the context of published articles having word limit constraints. The literature focused entirely on ‘fixed site’ care in clinics, hospitals or offices (primary or general practitioner oriented care), with care then organized around single providers, or teams, and also referrals between sites.
Table 2 lists the expert and policy literature. As well as clinic-located care there was care in community, home and prison settings. There was also a greater geographic diversity: India, Indonesia, Portugal, Tanzania, Ukraine and the USA were all a focus.

We identified five descriptive themes in how PWUD and providers experience integrated OST and HIV care. Each theme is supplemented with a discussion of the expert and policy literature. Table 3 summarises these findings. For each theme we describe the range of experiences, noting in particular differences and overlaps between views of clients and providers.

1 Convenient and comprehensive care through co-location

Co-location of services within one site was described by clients and providers as supporting convenient and comprehensive care.

Having care in one location allowed multiple health issues to be addressed at the same time (Drainoni et al., 2014; Egan et al., 2011; Korthuis et al., 2010): “having it in the same place worked out well. I can get everything right here in this one facility, without having to run over here and over there” (Client in Egan et al., 2011)

Some clients still sought quicker, geographically closer or less demanding care. OST clients highlighted barriers that complicated attending even one facility: distance (Drainoni et al., 2014), the timing of work (Lin, Cao, & Li, 2014) and for women the need to arrange child care (Morrow & Costello, 2004). Counselling on HIV that was part of several programmes was also described as burdensome by some clients (Batchelder et al., 2013; Drainoni et al., 2014; Egan et al., 2011).
The expert and policy literature had similar findings. Co-located care was linked to easier access and was highly valued (Curtis, 2009; Grenfell et al., 2012; Pangaea, 2014; Tobias, Drainoni, & McCree, 2000). There were still challenges for some of travel to even one site (Curtis, 2009; Demchenko, Kozhan, Varban, & Kolomiets, 2014).

2 Contrasting philosophies of care

Differing treatment philosophies shaped preferences for the location and approach to care. Principles of harm reduction and client centredness were linked to HIV focused care and more favoured by clients and providers.

Egan et al (2011), where OST was integrated within a HIV care oriented setting, report physicians preferring clinic based services for how they differed from the regulated and punitive approach of methadone; providers reported the same in Weiss et al (2011). Some clients welcomed this client centred and harm reduction oriented approach: “[my HIV provider] made me feel really comfortable knowing that if I… were to get off it [i.e. OST] and relapse, or whatever, that she could...you know, that she could start giving it to me again.” (Korthuis et al., 2010).

A focus on abstinence in OST focused settings was linked to limit setting and sanctions (Strauss & Mino, 2011). Some clients didn’t like this approach: “One thing, you’re five minutes late they’ll shut the door right in your face.” (Korthuis et al., 2010), although some favoured it: “I need the structure and the consequences” (Drainoni et al., 2014).

Similar themes were evident in the expert and policy literature. HIV care was again linked to harm reduction principles (Curtis, 2009) and client centred approaches (Demchenko et al., 2014;
Grenfell et al., 2012), whilst OST was also described as restrictive (Curtis, 2009). Tobias et al (2000) reported a range of provider views: some linked successful care to a harm reduction approach that tolerates drug use, others an abstinence based approach with clear boundaries, and one provider a combination of both harm reduction and abstinence models as necessary.

3 The challenges of discussing and disclosing HIV and drug use within integrated care

Integrating OST and HIV care was challenged by clients being unable or unwilling to discuss and disclose HIV and drug use status; challenges of stigma were also recognized by providers.

Some clients felt that discussing HIV in the context of OST was not necessary. Drainoni et al. (2014) summarise: “the participants almost universally did not feel that HIV risk reduction counselling was helpful or a necessary component of their treatment”. Providers of OST trying to support ART reported that “sometimes you were trying to give advice, and they [clients] were like ’I know, I know!’” (Lin et al., 2014).

Some OST clients living with HIV were comfortable disclosing their status in care settings: “now they know I got [HIV], and it’s like nothing to them.” (Egan et al., 2011). For others stigma and discrimination were a challenge. Directly observed approaches to integrated OST and ART were cited as problematic (Lin et al., 2014). A client reported stopping taking ART at the “methadone window” owing to stigma and shame; the extra pills described as a “little sign” of HIV (Batchelder et al., 2013).

Stigma and discrimination against drug use was cited less as a challenge. Weiss et al (2011) report a nurse in a site integrating OST within a HIV care focused clinic as saying of clients experiencing withdrawals: “I hate providing care to these kinds of patients”. Providers and clients reported how some
referrals for ART from OST sites were not fulfilled as providers would not start people on ART out of beliefs they wouldn’t adhere (Chakrapani, Kamei, Kipgen, & Kh, 2013; Lin et al., 2014).

The expert and policy literature reported similar findings. Inability or unwillingness to discuss or disclose HIV was again reported (Demchenko et al., 2014; van Laere et al., 2010). Bruce et al (2014) suggest that people confronting addiction may not at first feel able to also confront HIV (see also Demchenko et al., 2014). Fears of HIV stigma were overcome in one setting by involvement of outreach workers in facilitating referrals (Grenfell et al., 2012).

4 Varying mechanisms for OST enabling HIV treatment

In the context of integrated care, OST was described by clients as enabling people to access and adhere to HIV treatment through a range of mechanisms.

OST enabling time was described by clients as facilitating HIV care through helping them to “remember” to take medication (Egan et al 2011), and through allowing people to find “the time” for care rather than being focused on obtaining drugs and being on the street (Mimiaga et al., 2010; Sarang, Rhodes, & Sheon, 2013). As described by an OST client: “People who take street drugs are busy thinking about where to get drugs, how to get drugs and do not have time to take ART. It happened to me before I started taking substitution therapy” (Mimiaga et al., 2010).

OST also fostered motivation and hope, or “reinvestment” in life, and HIV treatment resulted from this: “if it wasn’t for suboxone, I think I’d be dead, truly. [ ] It just changed a lot of things in my life. ...I start seeing hope for myself. And I start feeling I could fight [HIV], and there’s nothing that I can’t accomplish.” (Egan et al., 2011).
This theme was little explored in the expert literature. Bruce et al (2014) note how OST provides “stability and well being” and so engagement in HIV care. Conversely, Grenfell et al (2012) report how OST limited HIV treatment engagement owing to fears of medication interactions.

5 The health system context for integrated care

Contextual health system factors were described by providers as shaping the potential for, and nature of, integrated care within clinics.

Requirements that clients pay for HIV care limited integration within an OST setting (Lin et al., 2014), and challenges in health insurance coverage for both areas of treatment were cited (Drainoni et al., 2014). Integrated care within one site ended when funding for vital staff finished (Strauss & Mino, 2011).

Ineffective referrals were linked to the absence of formal policy support (Chakrapani et al., 2014). ART providers’ reluctance to accept referrals was also linked to specific, results-oriented management systems: “Patient mortality rate is one of their performance appraisal indexes, so they only want compliant patients, ‘good patients’.” (Lin et al., 2014)

There was greater discussion of the role of context within the expert and policy literature. Funding and resource challenges were raised (Van laere et al., 2010; Curtis, 2009), poor coordination (Van Laere et al., 2010), as well as government regulations (Bruce et al., 2014), lack of political support (Van laere et al 2010), lack of awareness of OST efficacy by people using drugs limiting demand
(Ambekar, Arumugam, Sharma, Raju, & Singh, 2014) and criminalization of people using drugs (Demchenko et al., 2014). Successful referrals were limited by bureaucratic obstacles, but facilitated by informal professional networks (Grenfell et al., 2012); similarly, case management was seen as a way to overcome lack of communication across a health system (Tobias et al., 2000). Detailed strategies were suggested to manage contextual limitations (Bruce et al., 2014).

Discussion

This review has synthesized qualitative literature on client and provider experiences of integrated OST and HIV care. We found that co-located care is valued by clients for its convenience; HIV and OST focused settings are associated with different treatment philosophies with clients and providers having greater preference for the patient centred philosophies associated with HIV focused sites and care; stigma limits the potential for co-located care, especially when delivered through directly observed approaches; OST is understood to enable ART engagement through a range of mechanisms, and specific health system barriers shape the possibilities for integrated care. These findings support specific recommendations.

The co-location of care should be favoured over referral models of integration for how they are seen as comprehensive and convenient. There are however limits to this convenience and it is also experienced differently: women may face greater hurdles to care access and these varying needs should be explored and responded to (Azim, Bontell, & Strathdee, 2015; Deshko, 2015).

HIV care oriented settings have a greater orientation to client centred practices (Daftary, Calzavara, & Padayatchi, 2015) and may be better suited to integrating OST focused on achieving HIV prevention and treatment goals. Client centred practices allowing for harm reduction focused low
threshold care (Strike, Millson, Hopkins, & Smith, 2013) would have long term retention in OST – and in turn HIV treatment and prevention - as a primary goal. OST settings that may emphasize abstinence may be experienced as restrictive or punitive (Bourgois, 2000) and in so doing place less priority on retention in care, and so HIV treatment. However, a sole focus on HIV care settings for OST integration would limit some clients’ preference for abstinence focused care and also be challenged by available clinic infrastructure. Integrated care may then be best served by ‘integration’ of treatment philosophies (Daftary et al., 2015). A client centred philosophy flexible to the needs of individuals (Islam, Topp, Day, Dawson, & Conigrave, 2012) could synthesize delivery cultures of harm reduction and abstinence within both HIV and OST oriented settings, depending on collaborative decisions between providers and clients (Harris & Rhodes, 2012; McKeganey, 2011; Rance & Treloar, 2015).

When developing integrated services HIV and drug stigma should be considered. Co-located care poses challenges of stigma (Beyrer et al., 2011), particularly directly observed approaches (Bourgois, 2000; Crawford, 2013; Fraser, 2006). Co-located care should therefore be prioritized only if privacy and confidentiality are maintained (Beyrer et al., 2011). This could include adapting delivery settings or ‘co-locating’ care within community settings (Grenfell et al., 2012)). If addressing stigma is not feasible or effective, then alternative care models should be prioritized. For example, support to effective referral pathways between facilities, through outreach support (Broadhead et al., 1998; Keats et al., 2015; Treloar et al., 2015).

Health system policies and contexts were described as influencing integrating care, although the literature was varied and limited. These findings come in the context of limited funding for harm reduction (HRI, IDPC, & Alliance, 2014) and recognition of the structural barriers to separate OST and HIV care, such as the legality of OST, bureaucratic demands and the broader criminalization and
persecution of PWUD (Bojko et al., 2015; Rhodes & Sarang, 2012). The expert and policy literature brought more insight to the role of context, and suggested directions for managing these barriers. Whilst more documentation of these health system barriers and financing is needed, the available policy literature and broader evidence supports the need for policy change to address funding challenges.

The limited empirical literature the review found emphasizes the need for additional research. Greater use of mixed-methods approaches to research should be a priority. There is considerable quantitative study of OST and HIV care (A. Low et al.), but little integration of qualitative research to document care processes and models that form the context for clinical outcomes (e.g. Conway et al., 2004; Lucas, Weidle, Hader, & Moore, 2004). Specific priorities include: documenting experiences of care in low and middle income settings; exploring the role of specific context, policy and funding environments on processes described, such as stigma, and how clients and providers perceive these; how gender shapes access; and how models of care link to longer term processes of adherence.

The expert and policy literature described a greater diversity of care models, drawing attention to the potential for home and community focused delivery, peer and outreach support. Greater consideration should be given to these care models linked to rigorous monitoring and evaluation.

The literature identified important themes, although was limited in depth, even if the number of papers cited compares to other similar reviews (Leidel et al., 2015; Thomas & Harden, 2008). The exclusion of non-English language literature may have limited the studies found. We sought to manage these limitations through including expert and policy literatures to explore and expand on the empirical evidence. The thematic synthesis approach also faces limitations, particularly for how findings are decontextualized within themes (Thomas & Harden, 2008). The approach does however give insight to
significant and recurring experiences and so care need and appropriateness across diverse contexts (Ring, Ritchie, Mandava, & Jepson, 2011). More research is needed to explore how the themes we identified vary across different contexts.

Conclusions

These findings complement existing calls for integration of OST and HIV care (Sylla et al, 2007) by providing clarity on PWUD and provider perspectives on care. Priority considerations for developing care include: emphasising co-located integrated care, attention to stigma and the need to synthesize treatment philosophies around client centred care. More research is needed to understand a greater range of care models and how contextual factors shape experiences of integration.
<table>
<thead>
<tr>
<th>Title</th>
<th>Country</th>
<th>Aim</th>
<th>Study methods</th>
<th>Population</th>
<th>Integrated care model</th>
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<tbody>
<tr>
<td>1 Batchelder et al. (2013).</td>
<td>USA</td>
<td>To understand HIV treatment adherence experiences amongst people using methadone as a maintenance therapy</td>
<td>In-depth interviews with participants in a clinic based trial of an intervention</td>
<td>People living with HIV (PLHIV) accessing methadone, n=15 (5 women, 10 men)</td>
<td>Directly Observed Therapy (DOT) approach to ART in a methadone clinic</td>
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<td>2 Chakrapani, et al. (2014).</td>
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<td>Focus groups with PWID and key informant interviews</td>
<td>PLHIV, n = 19, all men, 4 on ART. Number on OST not specified. Interviews with 2 physicians and 2 heads of community agencies</td>
<td>OST available by referral from HIV treatment and care clinics</td>
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<td>3 Drainoni, M. et al. (2014).</td>
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<td>To evaluate a team based model of</td>
<td>Focus groups with clients and open</td>
<td>40 intervention clients in focus</td>
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<td></td>
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<td>integrated OST and HIV care within a primary care site</td>
<td>responses as part of satisfaction surveys</td>
<td>groups, 212 in open response survey; 65% receiving buprenorphine/naloxone (no breakdown by gender given)</td>
<td>treatment and medical care, including buprenorphine/naloxone and HIV risk reduction counselling</td>
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<td>4</td>
<td>USA</td>
<td>To describe patient experiences of buprenorphine/naloxone treatment and its integration into HIV care settings</td>
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<td>5</td>
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<td>In-depth interviews</td>
<td>29 PLHIV all receiving buprenorphine (23 men, 6 women)</td>
<td>Context of randomized trial of two OST delivery strategies (office based integration with HIV care, OST setting)</td>
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<td>6</td>
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<td>Focus groups</td>
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<td>Ukraine</td>
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<td>OST co-located within same building as HIV care centre</td>
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<td>8</td>
<td>USA</td>
<td>To assess needs and women’s preferences for methadone delivery (no specific integration)</td>
<td>Qualitative study to inform quantitative survey: focus</td>
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<td>9</td>
<td>Russia</td>
<td>To explore barriers to HIV treatment access among PWUD</td>
<td>Qualitative in-depth interviews</td>
<td>42 PLHIV (26 men, 16 women) none on OST</td>
<td>No integrated care pathway available</td>
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<td>10</td>
<td>USA</td>
<td>To identify implementation barriers to combined substance use treatment and HIV care</td>
<td>Staff of substance use treatment programmes (n not specified)</td>
<td>Integration of HIV care in to substance use treatment programmes focused on methadone delivery, linked to maintenance or abstinence focused care</td>
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<td>11</td>
<td>USA</td>
<td>To evaluate the process of integrated OST</td>
<td>Staff principal investigators, who led</td>
<td>Buprenorphine within HIV care at hospital,</td>
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<td>within HIV clinical care</td>
<td>implementation of new services</td>
<td>community or HIV care centres</td>
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<td>1 Ambekar, et al. (2014).</td>
<td>India</td>
<td>Survey of experiences of PWUD in drug use and service access</td>
<td>Structured interviews with PWUD</td>
<td>1000 PWUD across 22 sites</td>
<td>Context for survey of ‘Targeted Interventions’ for PWUD; centres that include OST, NSP and link to HIV care</td>
</tr>
<tr>
<td>2 Bruce, et al. 2014</td>
<td>Tanzania</td>
<td>Reflections on lessons learned through implementing integrated OST and HIV care</td>
<td>No particular design; report by programme team</td>
<td>12 member team engaged in delivery or development of the services</td>
<td>MAT site in Tanzania, with integrated HIV care: ART daily dosing alongside observed MAT</td>
</tr>
<tr>
<td>3 Curtis. (2009).</td>
<td>Ukraine</td>
<td>WHO commissioned short report of case studies of integration</td>
<td>Various providers and service clients across multiple</td>
<td>Various sites in Ukraine: one site of referrals between clinics; MAT</td>
<td></td>
</tr>
<tr>
<td>Citation</td>
<td>Country</td>
<td>Report aim or focus</td>
<td>Report design or approach</td>
<td>Population</td>
<td>Integrated care model</td>
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<td>4</td>
<td>Ukraine</td>
<td>Evaluation of service access for PWUD</td>
<td>Semi-structured interviews and focus groups with clients, in-depth interviews with providers</td>
<td>500 clients of OST</td>
<td>Various sites in Ukraine</td>
</tr>
<tr>
<td>5 Demchenko, et al. (2014).</td>
<td>Portugal</td>
<td>Rapid assessment to assess acceptability and integration of</td>
<td>Mixed-methods rapid assessment including</td>
<td>30 PWID (3 women, 27 men; 26 PLHIV, and 21 currently on</td>
<td>Two models documented: i) all services available within a single</td>
</tr>
<tr>
<td>Citation</td>
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<tr>
<td>HIV, TB and drug dependency treatment (including OST) in Portugal</td>
<td></td>
<td>mapping, analysis of secondary data and interviews with PWID and providers</td>
<td>treatment; 26 had experienced OST, 24 currently</td>
<td>7 providers engaged in HIV, TB and OST care</td>
<td>centre, ii) services available through referral between separate facilities, supported by outreach teams</td>
</tr>
<tr>
<td>6 Van Laere, et al. (2010). Indonesia</td>
<td>Baseline evaluation of services in six methadone clinics</td>
<td>Mixed methods evaluation, including interviews with providers, and focus groups</td>
<td>Providers, n not stated</td>
<td>MAT clinics with varying levels of on-site integration of HIV care: HIV prevention (condoms, NSP), VCT. ART only by referral to HIV clinics.</td>
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<tr>
<td>Citation</td>
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<td>Report design or approach</td>
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<tr>
<td>7 Tobias, et al. (2000).</td>
<td>USA</td>
<td>Information review on delivery of HIV services for people using drugs</td>
<td>Literature review and key informant interviews</td>
<td>50 key informants (providers, community leaders, government staff, researchers)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>8 Pangaea Global AIDS Foundation. 2014</td>
<td>Global</td>
<td>Expert consultation on appropriate models of integrated HIV care for PWID in Africa</td>
<td>Expert perspectives and reports on programme experience</td>
<td>Stakeholders, including providers</td>
<td>Various</td>
</tr>
<tr>
<td>Theme</td>
<td>Included citations</td>
<td>CERQual assessment of confidence in the evidence</td>
<td>Explanation of CERQual assessment</td>
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<td>Having OST and HIV care available at one site, whether through a single provider or team of providers, was welcomed by clients as convenient and facilitating attention to multiple health priorities. There are still limitations described, with access to a single facility itself posing challenges of time and transport.</td>
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<td>varied according to different philosophies, centred on harm reduction or sobriety, with clients having different preferences shaped by their experiences and goals for OST.</td>
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<td>Whilst some reported comfort and willingness to disclosure and discuss HIV status, some found this difficult because of stigma and fears of discrimination, or not considering it necessary to address HIV in OST settings</td>
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<td>4</td>
<td>OST enabling HIV treatment OST facilitates overcoming social and structural barriers to addressing HIV for some people, through varying mechanisms</td>
<td>Egan et al 2011, Korthuis et al 2010, Mimiaga et al 2010, Sarang et al 2013, Weiss et al 2011</td>
<td>Moderate quality and relevance, but low coherence and low range of countries</td>
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References


