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# The implementation and effectiveness of the one stop centre model for intimate partner and sexual violence in low- and middle-income countries: a systematic review of barriers and enablers

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#### **ABSTRACT**

Introduction Many low- and middle-income countries have implemented health-system based one stop centres to respond to intimate partner violence (IPV) and sexual violence. Despite its growing popularity in low- and middle-income countries and among donors, no studies have systematically reviewed the one stop centre. Using a thematic synthesis approach, this systematic review aims to identify enablers and barriers to implementation of the one stop centre (OSC) model and to achieving its intended results for women survivors of violence in low- and middle-income countries.

Methods We searched PubMed, CINAHL and Embase databases and grey literature using a predetermined search strategy to identify all relevant qualitative, quantitative and mixed methods studies. Overall, 42 studies were included from 24 low- and middle-income countries. We used a three-stage thematic synthesis methodology to synthesise the qualitative evidence, and we used the CERQual (Confidence in the Evidence from Reviews of Qualitative Research) approach to assess confidence in the qualitative research. Meta-analysis could not be performed due heterogeneity in results and outcome measures. Quantitative data are presented by individual study characteristics and outcomes, and key findings are incorporated into the qualitative thematic framework.

Results The review found 15 barriers with high-confidence evidence and identified seven enablers with moderate-confidence evidence. These include barriers to implementation such as lack of multisectoral staff and private consultation space as well as barriers to achieving the intended result of multisectoral coordination due to fragmented services and unclear responsibilities of implementing partners. There were also differences between enablers and barriers of various OSC models such as the hospital-based OSC, the stand-alone OSC and the NGO-run OSC.

**Conclusion** This review demonstrates that there are several barriers that have often prevented the OSC model from being implemented as designed and achieving the intended result of providing high quality, accessible,

# **Key questions**

## What is already known?

- Several process evaluations of the one stop centre (OSC) model in low- and middle-income country (LMIC) settings have documented various challenges, enablers and lessons learnt.
- Important evaluation findings of OSCs are scattered across the published literature and in unpublished technical reports.
- Only one outcome evaluation has been published which reported that the OSC model led to increased short-term utilisation of primary health services.
- Despite increasing popularity of the OSC model in LMICs and among funders, no studies have evaluated the effectiveness of the OSC model in meeting survivor needs.
- No systematic review or evidence-based synthesis on the OSC model has been performed prior to the present study.

# What are the new findings?

- ► The review found 15 high-confidence evidence barriers to implementation of the OSC model and to achieving its intended results. These included barriers to implementation such as staff time constraints and lack of basic medical supplies, which lead to barriers to achieving intended results like accessible care due to long wait times and out-of-pocket fees.
- ► The review also identified seven enablers with moderate-confidence evidence. These included enablers to implementation such as standardised policies and procedures. They also included enablers to achieving intended results, such as regular interagency meetings that facilitated increased multisectoral coordination.

acceptable, multisectoral care. Existing OSCs will likely require strategic investment to address these specific barriers before they can achieve their ultimate goal of reducing survivor retraumatisation when seeking care.





#### **Key questions**

## What do the new findings imply?

- ► The results of this review provide essential evidence to guide OSC leadership, funders, policymakers and government officials on specific factors that should be optimised in order for OSCs to be implemented as intended, achieve their intended results and reach their ultimate goal—namely, to reduce victim retraumatisation when seeking care.
- ► These data should be used to prioritise and guide investment, as well as inform more rigorous evaluation of existing OSCs prior to further promotion and scale-up of this model in LMICs.

More rigorous and systematic evaluation of the OSC model is needed to better understand whether the OSC model of care is improving support for survivors of IPV and sexual violence.

The systematic review protocol was registered and is available online (PROSPERO: CRD42018083988).

## INTRODUCTION

Violence against women (VAW) is associated with harmful health consequences<sup>1 2</sup> and is a major public health concern.<sup>3</sup> VAW is also a barrier to achieving Sustainable Development Goal 5 on gender equality and women's empowerment, and Sustainable Development Goal 3 on health. The health sector is well situated to respond, as women facing violence are more likely to view health workers as trustworthy for disclosure of abuse and to use a variety of health services, including mental health, emergency department and primary care services when compared with non-abused women.<sup>5–8</sup> A variety of one stop centre (OSC) models have emerged over the years that vary in structure and services provided, resulting in discussion as to how the OSC should be defined. For the purpose of this review, the authors defined an OSC model as an interprofessional, health-system based centre that provides survivor-centred health services alongside some combination of social, legal, police and/or shelter services to survivors of intimate partner violence (IPV) and/or sexual violence (SV).

The original OSC was developed in a tertiary hospital and aimed to provide acute services to survivors of violence. Soon after OSCs were established in Malaysia in 1994, the model was replicated throughout South East Asia and Western Pacific regions. It has now been widely implemented with donor support in several African countries, and similar models are emerging in Latin America. The majority of OSCs are hospital-based, typically within tertiary care facilities, while others are standalone centres that provide basic health services on-site and refer for specialised and emergency services. Some OSCs are more strongly linked to the judicial system as in the case of the Thuthutzela centres in South Africa. They may be managed by the government, private sector, non-governmental organisations (NGOs) or a combination.

## Rationale for development of the OSC

The development of the OSC model was a response to numerous issues identified by survivors and their advocates when seeking services in traditional (non-integrated) healthcare, police and legal systems. Survivors often need several multidisciplinary services that are scattered in different locations. They frequently need to retell their stories of trauma each time they engage with a different service/sector which can contribute to secondary victimisation. The intended results of the OSC model are to increase accessibility, acceptability, quality and multisectoral coordination of care in order to reach the ultimate goal of reducing survivor retraumatisation when seeking care. <sup>15–17</sup>

#### Current evidence of the OSC model

While multiple process evaluations of the OSC model have been performed, no studies have examined the effectiveness of the OSC model. <sup>18–51</sup> Only one outcome evaluation has been published, which found that the OSC model led to short-term increased utilisation of primary health services. <sup>13</sup> No systematic reviews on the OSC model have been published.

#### Theory of change of the OSC model

The authors have provided a theory of change for the OSC model to serve as an analytical framework for the study findings (figure 1). The OSC model requires specific inputs such as multidisciplinary staff and private consultation rooms, which contribute to OSC outputs such as more services provided at one location and at all hours, and reduced survivor interviews. These contribute to OSC outcomes such as improved multisectoral coordination and improved quality of survivor-centred care. These outcomes contribute to the ultimate goal of the OSC to reduce survivor revictimisation when seeking care.

# Practical rationale of this review

There has been increasing global implementation, scaling-up and donor investment in OSCs, despite a lack of rigorous evaluation of their implementation or their effectiveness. A meeting on this was organised by the WHO in June 2018 where experts discussed current evidence of the OSC model, contextual variations, as well as its strengths and limitations. It was recommended that a systematic review be performed to better assess the barriers and enablers to OSC implementation and achieving its intended results, and to inform a framework for more systematic evaluations of OSCs.

## **Review objective**

Using a thematic synthesis approach, this systematic review aims to identify enablers and barriers to implementation of the OSC model and to achieving its intended results for women survivors of violence in low-and middle-income countries (LMICs).



# Theory of Change of the OSC model

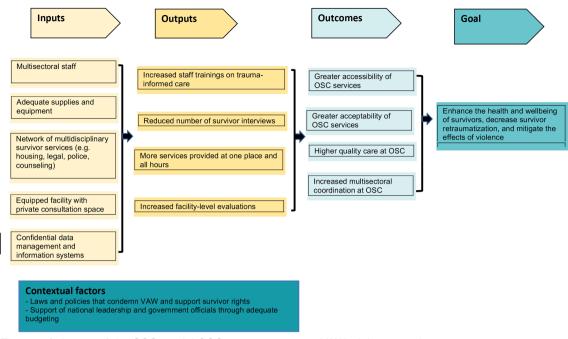


Figure 1 Theory of change of the OSC model.OSC, one stop centre; VAW, violence against women.

#### **METHODS**

## Patient and public involvement

Patient/survivor experiences, preferences and priorities were sought in every step of the systematic review process. While perspectives of all stakeholders of the OSC model were included in the review, survivor experiences were specially desired and sought after during study selection and data extraction, as it was felt survivors could best inform how implementation of the OSC was affecting its beneficiaries (the survivors) and how the barriers and enablers were perceived to be meeting survivor needs. Patients/survivors themselves were not involved in the design or conduct of this systematic review.

#### Search strategy

Published literature was searched in PubMed, CINAHL and Embase using controlled vocabulary and free-text terms combining three main search elements: (a) partner violence and/or sexual violence, (b) one stop centre and (c) LMIC. Examples of IPV and/or sexual violence search terms include, 'Rape' (Mesh) OR 'Intimate Partner Violence' (Mesh) OR 'Domestic Violence' (Mesh). Examples of one-stop centre search terms include centre(tiab) OR centre(tiab) OR one stop(tiab) OR stand alone(tiab) OR protection unit(tiab). Full search strategies are available in online supplementary tables S1-3. The third search element was the LMIC context, which was used via the Cochrane Effective Practice and Organisation of Care (EPOC) Group LMIC filter (http://epoc.-cochrane.org/ lmic-filters). Numerous combinations of these search elements were identified through thesaurus and Medical Subject Headings terms. The following databases were searched for additional studies, including grey literature

and unpublished reports: WHO Global Health Library, Cochrane Library, Database of Abstracts of Reviews of Effects, Google Scholar, Centre for Reviews and Dissemination Database, OpenGrey and EThOS. Searches were conducted from 31 June 2018 to 31 December 2018. The search strategies were reviewed by two expert librarians. Numerous researchers in relevant fields were contacted to identify additional published and unpublished studies.

#### Study selection

All titles and abstracts identified were independently screened using a standardised form (RMO, CG-M). Each full-text article was reviewed by RMO, and in consultation with CG-M, pre-determined inclusion and exclusion criteria were applied (see table 1). The Preferred Reporting Items for Systematic Reviews and Meta-Analyses

Table 1 Criteria for inclusion and	dexclusion
Inclusion criteria	Exclusion criteria
Uses quantitative, qualitative or mixed method study designs	Does not present primary research
Discusses the OSC model	Not published in English, Spanish or French language
Reports barriers and/or enablers of the OSC model	Full text is not available
Conducted in LMIC context	Women were not beneficiaries of the OSC (eg, the OSC was only for child survivors)

LMIC, low- and middle-income country; OSC, one stop centre.



(PRISMA) diagram of search and study inclusion process is provided in online supplementary figure 1. For the purposes of this review, the OSC was defined as any centre that provided integrated, multidisciplinary care to survivors of intimate partner and/or sexual violence with healthcare as a necessary component, as well as two or more additional on-site services, which could include any combination of social, legal and police services. For example, an integrated model that provided legal and police services was not considered an OSC, while a model that provided healthcare, shelter and legal services was considered an OSC. Any discrepancies in the screening were resolved through discussion and consultation with a third author (MC).

## **Data extraction**

Data were extracted using a standardised form (online supplementary file S1). Themes, participant quotations and findings were extracted from qualitative studies, and where relevant, results and discussion sections of quantitative studies. Results and outcome measures were extracted from quantitative studies. Both types of data were extracted in the case of mixed methods studies.

## **Synthesis**

A thematic synthesis methodology was used to analyse the qualitative data.<sup>52</sup> The lead author (RMO) developed a spreadsheet of all qualitative data from the studies' findings sections, and where relevant, discussion sections. Using the three stage method outlined by Thomas and Harden, 2008, each relevant line of text was openly coded (RMO) through an inductive, line-by-line process to develop first-order themes, which were descriptive and similar in meaning to the primary studies.<sup>52</sup> Based on the initial coding, 16 broad themes were developed, and through in iterative process, all text units were classified into one of the broad themes. Each theme was analysed further to develop the axial coding scheme and to disaggregate core themes. The text units were hand-sorted into first-order, second-order and third-order themes whereby axial codes were then systematically applied. Second-order themes were developed by grouping firstlevel themes together based on similarities and differences. Third-order themes were developed by grouping first-order and second-order themes together based on higher analytical themes.<sup>53</sup> Enablers and barriers that emerged from quantitative studies were compared with qualitative themes and when appropriate, incorporated into the thematic analysis. For example, some quantitative studies found that provision of the full course of HIV pre-exposure prophylaxis (PEP) at first encounter improved PEP adherence rates. This result was felt to support the theme, 'minimisation of points of care facilitates medication adherence' and thus was referenced under this theme in the mixed method thematic synthesis.

## **Quality assessment and confidence assessment**

The CERQual (Confidence in the Evidence from Reviews of Qualitative Research) approach was applied to each review finding to assess confidence in each review finding.<sup>54</sup> The CERQual approach assesses how much confidence to place in review findings of qualitative systematic reviews based on: (1) methodological limitations, (2) relevance of the review question, (3) coherence and (4) adequacy of data. Methodological limitations were assessed using two tools: an adaptation of the Critical Appraisal Skills Programme (CASP) tool was used to assess the quality of the qualitative studies,<sup>55</sup> and an adaptation of the Strengthening the Reporting of Observational Studies in Epidemiology (STROBE) statement was used to assess the quality of the quantitative studies.<sup>56</sup> Examples of methodological limitations include unclear statement of aims, inappropriate recruitment strategy or lack of rigour in data analysis. No studies were excluded based on quality assessment, instead, methodological quality is reflected in the CERQual assessments. Each author independently assessed study quality using the CASP tool and STROBE checklist to qualitative and quantitative studies, respectively (online supplementary files S4 and S5). Using a pre-determined scoring template, each author applied each of the four CERQual criteria to each review finding (online supplementary file S6). After each of the quality assessments and four CERQual elements were evaluated, the CERQual level of confidence for each review finding was assigned as high, moderate or low (RMO, MC, CG-M). Discrepancies were resolved by discussion until consensus was reached among authors.

#### Reporting

This systematic review follows the Enhancing Transparency in Reporting the Synthesis of Qualitative Research (ENTREQ) statement guidelines (online supplementary file S2).<sup>57</sup> It also follows the 2009 PRISMA guidelines (online supplementary file S3).<sup>58</sup> <sup>59</sup>

### **RESULTS**

Database searches identified 3529 potentially relevant articles. Thirty-eight published and unpublished reports were retrieved by contacting relevant researchers, for a total of 3567 potentially eligible studies. Of the 191 studies selected for full-text review, 42 studies met inclusion criteria (see figure 1). This systematic review presents primary research findings from 42 studies from 24 LMICs, including 15 countries in Asia and 9 countries in Africa (see table 2). Nineteen studies used qualitative methods, 8 studies used quantitative methods and 16 studies used mixed methods. In 17 studies, the respondents were OSC stakeholders, in 11 studies the respondents were survivors of IPV and/or SV, in 12 studies the respondents were both OSC stakeholders and survivors and in 1 study the respondents were community members. 46 OSC stakeholders included government officials in 14 studies, healthcare workers in 15 studies, OSC staff (other than healthcare workers) in 25 studies and police members in 6 studies.

Table 2 Su	Summary of study characteristics					
Citation number (year)	Country/ countries	Study design	Setting characteristics	Sample characteristics, data collection method and recruitment strategy*	Data analysis	Quality assessment
41 (2005)	Bangladesh	Qualitative, descriptive	Two sites; hospital-based; NGO and government run	In depth interviews (n=28) of OSC stakeholders (government, NGO, employees and women survivors) Purposive, snowball sampling	Thematic analysis	Medium
26 (2006)	Bangladesh	Mixed methods, cross-sectional survey	One site; hospital-based; NGO and government run	Survey (n=310) of women treated at OSC, as identified by medical chart review Purposive sampling	Descriptive analysis	Low
43 (2013)	Malaysia	Qualitative, descriptive	Seven sites; hospital-based; NGO and government run	In depth interviews (n=54) of OSC healthcare workers (including nurses, medical officers, gynaecologists, medical social workers and hospital managers) Snowball sampling	Thematic analysis	High
48 (2016)	Nepal	Qualitative, descriptive	One site; hospital-based	FGDs (n=117) of community members, including men (n=41) and women (n=76) Purposive sampling	Qualitative content analysis	High
12 (2012)	Kenya, Zambia	Mixed methods, comparative case study	Five sites; one NGO-owned stand- alone, one NGO-owned hospital- based, three hospital- owned hospital based	In-depth interviews (n=25) of female and male survivors of gender-based violence, caregivers of child survivors, hospital managers and key informant interviews; medical chart review, facility inventory review.	Qualitative: thematic analysis, Quantitative: EpiData and SPSS, accounting approach cost-analysis	Medium-high
11 (2010)	27 countries in Asia-Pacific; relevant countries include: Bangladesh, India, Indonesia, Malaysia, Maldives, Nepal, Papau New Guinea, Philippines, Sri Lanka, Thailand and Timor- Leste	Qualitative, descriptive	Variety of government-led, NGO-led and combined responses, both hospital- based and stand-alone facilities.	Desk review, field visits, phone and email interviews with relevant OSC stakeholders at country and regional offices.	Content analysis, thematic analysis	Low-medium
46 (2016)	Sylet and Cox's Bazar, Bangladesh	Qualitative, descriptive	Five sites; stand-alone and hospital based; mostly government run with some NGO involvement	Key informant semi-structured interviews (n=124) of United Nations Population Fund (UNFPA) staff, government ministries, implementing partners and donors); mixed FGDs (n=12) of government and implementing partner staff, and community beneficiaries; site visits, desk review Purposive sampling	Content analysis, thematic analysis	Low-medium

Table 2 Co	Continued					
Citation number (year)	Country/ countries	Study design	Setting characteristics	Sample characteristics, data collection method and recruitment strategy*	Data analysis	Quality assessment
44 (2013)	Rwanda	Qualitative, descriptive	one site; hospital-based; government and NGO run	Semi-structured interviews and FGDs (n=93, breakdown not given) of survivors, OSC staff, and UN and government stakeholders; facility observation Convenience and purposive sampling	Thematic analysis	High
33 (2013)	Zambia	Qualitative, cross-sectional survey	Eight sites; two stand-alone centres and six hospital-based; all international NGO funded	Survey (n=197) of female and male survivors of IPV or SV who accessed centre Convenience sampling	Descriptive analysis	Low
30 (2013)	Nepal	Mixed methods	Four sites; hospital-based; government-run	In-depth interviews of female and male survivors of IPV or SV (n=20) and central stakeholders (n=137) including government employees and donors (n=13), health workers (n=58), members of coordination committees (n=42) and other (n=24).  Purposive and convenience sampling	Content and thematic Medium analysis, SWOT analysis	Medium
13 (2016)	South Africa	Qualitative, descriptive	55 sites (Thuthuzela centres); hospital-based and stand-alone; government and NGO run	Semi-structured interviews and surveys (number not provided) of National Prosecuting Authority staff, NGO staff, OSC managers and national experts in GBV in South Africa; facility observation Non-random sampling not otherwise specified	Qualitative: thematic analysis	High
51 (2003)	Kenya	Qualitative, descriptive	10 voluntary counselling and testing (VCT) sites, 11 hospitals, 6 legal and advocacy support programme; one hospital-based, private OSC (gender violence recovery centres)	In-depth and semi-structured interviews of male and female key informants (n=34) and FGDs (n=18) including hospital staff, police officers, government and NGO workers and VCT counsellors; facility observations Stratified and purposive sampling	Thematic analysis, content analysis	High
45 (2010)	Zambia	Mixed methods	10 sites; stand-alone and hospital-based, NGO and government- run	Semi-structured interviews (n=240) of key informants including beneficiaries, stakeholders and ministry officials; facility observations Sampling strategy not stated	Descriptive analysis	Low
37 (2014)	Nepal	Qualitative, descriptive	16 sites; hospital-based, government-run (Ministry of Health and Population)	Interviews of survivors of IPV and SV, government officials, OSC staff and community members Sampling strategy not stated	Descriptive analysis	Low
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Citation number (year)	Country/ countries	Study design	Setting characteristics	Sample characteristics, data collection method and recruitment strategy*	Data analysis	Quality assessment
39 (2016)	Pakistan	Mixed methods; cross-sectional, qualitative descriptive	12 sites; stand-alone, or within government (non-medical) facilities, government-run	Semi-structured telephone interviews (n=136), including female survivors of IPV and SV (n=123), and male and female OSC managers (n=13); field visits and surveys Simple random sampling	Quantitative: standard statistical techniques, that is, descriptive analysis using SPSS and MS office; qualitative: thematic analysis of the open ended survey and interview questions	Medium-high
38 (2017)	India	Qualitative, descriptive	Four sites; hospital-based and police- station-based, government- run.	In-depth interviews (n=80) including survivors of sexual assault (n=15), family members of survivors (n=25) and lawyers, civil society activists and advocates (n=15), doctors and forensic experts (n=6), government officials (n=12) and police officers (n=7)	Thematic analysis	Medium-high
18 (2002)	Philippines	Mixed methods; retrospective cohort, qualitative descriptive	One site (women and children protection unit); hospital-based, government-run	Medical chart review of non-pregnant women and children who were survivors of IPV and/or SV (n=1354) Convenience sampling	Basic descriptive statistical analysis	Medium
19 (2013)	Kenya	Mixed methods; retrospective cohort, qualitative descriptive	One site; Clinic-based, NGO-run (Médecins Sans Frontières)	Medical chart review of female and male, child and adult survivors of sexual violence (n=866) Purposive sampling	Basic descriptive statistical analysis using Microsoft Excel and EpiData Analysis 2.1, qualitative descriptive analysis	Medium-high
20 (2015)	Malaysia	Quantitative cross-sectional observational	one site; hospital-based, government-run	Self-reporting survey of male and female survivors of IPV (n=159) Purposive sampling	Basic statistical analyses conducted using SPSS V.20.	High
15 (2011)	Malaysia	Qualitative, descriptive	Two sites; Hospital-based, combined NGO and government run	In-depth interviews (n=20), including policymakers (n=8), NGO representatives (n=7), healthcare workers (n=1) and police and social welfare representatives (n=4)  Purposive and snowball sampling	Content analysis	High
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Table 2 Cor	Continued					
Citation number (year)	Country/ countries	Study design	Setting characteristics	Sample characteristics, data collection method and recruitment strategy*	Data analysis	Quality assessment
16 (2012)	Malaysia	Qualitative descriptive	Seven sites; hospital-based, combined NGO and government run	In-depth and semi-structured interviews (n=74) including accidents and emergency doctors (n=23), gynaecologists (n=6), nurses (n=14), medical social workers (n=5), counsellors (n=2), psychiatrists (n=4), policymakers (n=8) and key informants (n=12) Purposive and snowball sampling	Content and framework analysis	High
49 (2009)	India	Mixed methods; cross-sectional observational, qualitative descriptive	One centre (Centre for Vulnerable Women and Children); stand-alone, combined NGO and government-run	Self-reported reflections and interviews Descript with healthcare workers, female survivors analysis of IPV/SV who utilised the centre (number not provided) Convenience sampling	Descriptive narrative analysis	Low
10 (2002)	Thailand	Retrospective cohort, quasi-experimental, cross-over	Two centres; hospital- based, government-run	Structured and in-depth interviews (n=249) of female and male hospital staff including physicians, nurses, social workers, psychologists and intake personnel, community women's leader groups, staff attorneys and police officers	Descriptive analysis	Low
21 (2017)	Zimbabwe	Retrospective cohort	One site (Sexual and Gender-Based Violence Clinic); clinic-based, combined NGO (MSF) and government-run	Medical chart review (n=3617) of female and male survivors of sexual violence, including survivors ages over 16 (n=1071), ages 12–15 (n==615) and ages under 12 (n=93).	Descriptive statistics using Stata V.11. X² tests, Fisher's exact tests, logic regression, and model building	High
40 (2009)	Kenya	Qualitative, descriptive	Three sites; hospital-based (emergency department), combined NGO and government-run	Client exit interviews (n=734) of female and male, child and adult survivors of rape Sampling strategy not stated	Situational analysis	Low
32 (2009)	South Africa	Before and after intervention; retrospective cohort	One site; hospital-based, government-run	Semi-structured interviews with female and male survivors of rape (n=109) and service providers (n=16) (doctors, nurses, social workers, a pharmacist and police officers); medical chart review Convenience sampling	Quantitative descriptive analysis using Stata. Risk ratios estimated using Poisson regression to estimate intervention effect.  Qualitative analysis methods not clearly stated	Moderate

Descriptive statistical Lanalysis via PASW Statistics 18, and Mann-Whitney test for highly skewed distributions

Medical chart review (n=154) of female survivors of sexual assault (median age 22 years; range 13–64) Purposive sampling

Two sites (RainLily); Hospital-based, NGO-run

Retrospective cohort

China

25 (2016)

Low

multilinear regression for influencers on collaboration

Table 2 Cor	Continued					
Citation number (year)	Country/ countries	Study design	Setting characteristics	Sample characteristics, data collection method and recruitment strategy*	Data analysis	Quality assessment
17 (2016)	Democratic Republic of Congo	Qualitative, descriptive	Two sites; Hospital based, privately- run	Descriptive personal narrative of medical director/obstetrics-gynaecologist and midwife (n=2)	Thematic analysis	Low
22 (2011)	Kenya	Retrospective cohort	One site; hospital-based, government-run	Medical chart review of female and male survivors of sexual abuse (n=321), including children and adults, (median age 15.9 years; range 8 months to 100 years)	Summary descriptive statistics using Stata SE 10.0. Estimates of association calculated using Student's t-test, $X^2$ tests and Fisher's exact tests	High
23 (2006)	South Africa	Observational, descriptive	One site (victim support centre); hospital-based, government-run	Self-reported survey of female and male survivors of rape (n=105) (median age 23.5 years; range 16–68) treated at the centre Purposive sampling	Descriptive analysis	Low
14 (2010)	Ethiopia, Kenya, Malawi, Senegal, South Africa, Zambia, Zimbabwe	Retrospective cohort, qualitative, descriptive	Seven sites; includes variety of comprehensive care models including Thohoyandou Victim Empowerment Programme, South Africa, and the Kamuzu Central Hospital, Malawi; hospital-based, NGO-run	Interviews, surveys and medical chart review of survivors of sexual violence, healthcare workers, policymakers, government officials Sampling strategy not stated	Data analysis methods Low not clearly stated	Low
24 (2017)	Taiwan	Cross-sectional	Five centres; hospital-based, government-run	Survey (n=140), using Index of Interdisciplinary Collaboration tool of social workers, doctors, nurses, police officers and prosecutor Purposive sampling	Statistical analysis via SPSS 18. Multivariate analysis of variance conducted for association analyses, eta-square for association analyses,	High

Table 2 Cor	Continued					
Citation number (year)	Country/ countries	Study design	Setting characteristics	Sample characteristics, data collection method and recruitment strategy*	Data analysis	Quality assessment
31 (2008)	Papua New Guinea	Mixed methods; cross-sectional, qualitative descriptive	ten sites (only Family Support Centres (FSCs) relevant to this review); Hospital-based, government and NGO run	Survey (n=39) of stakeholders (government officials, NGO representatives, and donors; In-depth interviews (n=17) of key informants (donors, service providers, governments officials, local women's rights activists and faith-based groups) Purposive and snowball sampling	Descriptive and thematic analysis	Moderate
50 (2016)	Papua New Guinea	Retrospective cohort	One site (FSC); hospital- based, government and NGO (MSF) run	Medical chart review (n=5212) of male and female presentations for SV and/or IPV Purposive sampling	Statistical analysis via $\chi$ 2-squared or Fisher's exact tests, multiple variable adjusted analyses, and modified Poisson regression	Moderate-high
36 (2013)	South Africa	Qualitative, descriptive	Two sites; Stand-alone (near health facility), run by NGO (United Nations Office on Drugs and Crime), later transferred to SA government	Telephone and in-person interviews (n=20) of staff, representatives from government, civil society organisations, UNODC and advisory committees Convenience sampling	Descriptive and thematic analysis	Moderate
29 (2011)	Malawi	Mixed methods; retrospective cohort, qualitative descriptive	Three sites; hospital- based, combined NGO and government-run	In-depth interviews (n=15) of healthcare workers (including doctors, clinical officers, nurses, midwives, social workers, health surveillance assistants and village health committee members). Key informant interviews (n=12) with policymakers, donors and other stakeholders and FGDs (n=10) with healthcare workers; chart review Purposive stratified sampling	Qualitative: thematic analysis Quantitative: descriptive statistical analysis and summary statistics via Epi Info, Pearson's X² and Fisher's exact test	High
47 (2012)	Kenya	Qualitative, descriptive	Four sites (only the Gender-Based Violence Recovery Centre (GBVRC) relevant to this review); hospital-based, government-run	Semi-structural interviews of female adult survivors of IPV/SV (n=8), and staff members (n=5) (head of department, psychologist, social worker, nurse counsellor and receptionist); client flow observations Purposive sampling	Thematic analysis	High
						Continued



Table 2 Cor	Continued					
Citation number (year)	Country/ countries	Study design	Setting characteristics	Sample characteristics, data collection method and recruitment strategy*	Data analysis	Quality assessment
27 (2010)	Sierra Leone	Qualitative, descriptive	Three centres (Rainbow Centres); stand-alone, NGO-run	In-depth interviews and FGDs of (n=101) male and female survivors of sexual assault and (n=22) OSC and NGO staff, including community leaders, judicial investigators, court magistrates and police; facility observations Convenience sampling	Descriptive analysis	Moderate
35 (2015)	South Africa	Qualitative, descriptive	29 sites (Thuthuzela centres); variety of hospital-based, stand-alone, police and court-based centres; combined NGO and government run, or only government-run	In-depth interviews (n=40) of OSC directors and programme managers; participant observation Non-random sampling not otherwise specified	Descriptive analysis	Moderate
42 (2004)	India	Qualitative, descriptive	One centre (Dilaasa); hospital-based, Combined NGO and government run	Semi-structured interviews (n=27) of adult female survivors of IPV/SV, including current and former programme participants Purposive sampling	Content analysis	High
34 (2010)	India	Qualitative, descriptive	Two centres (Dilaasa); hospital- based, combined NGO and government run	Semi-structured interviews with survivors of violence, project personnel, coordinator, mentors and hospital staff (number not specified); facility observation Sampling strategy not stated	Thematic analysis	Moderate
28 (2018)	Mongolia	Qualitative, descriptive	Four sites; variety of centres-some health facility based, stand-alone, and police-station based, variety of government and NGO- run, funded by UNFPA	In-depth interviews (n=36) and FGDs (n=6) of key informants Sampling strategy not stated	Thematic analysis	Low-moderate

\*Some details of sample characteristics such as participant sex, age, professional role, specific sampling strategy and data collection and analysis methods were not provided in the primary studies, and thus do not appear in table 2. FGD, focus group discussion; FSC, family support centre; IPV, intimate partner violence; MOU, memorandum of understanding; MSF, Médecins Sans Frontières; OSC, one stop centre; SOP, standard operating procedures; SPSS, Statistical Package for the Social Sciences; SV, sexual violence; VAW, violence against women.



Table 3 Sumr	nary of quantitative study findings		
Citation number (year)	Key findings of enablers and barriers	Quality assessment	Themes incorporated into qualitative synthesis (E=enabler, B=barrier)
18 (2002)	There was a delay from time of the abuse to presentation at the OSC, which was attributed to the geographic inaccessibility of the centre, especially for rural populations, as well as lack of community awareness. Higher reporting of sexual abuse cases was attributed to preference among women and children community members to seek care from doctors who specialise in this care and can meet survivor needs.	Medium	<ul> <li>B: Lack of access to rural populations</li> <li>B: Lack of community awareness of OSC services</li> <li>F: Sensitive staff knowledge, attitudes and behaviours</li> </ul>
19 (2013)	There was poor follow-up for medical interventions that required repeat visits. Standardised procedures and protocols assisted in providing quality care to survivors.	Medium-high	<ul> <li>B: Lack of long-term support and follow-up</li> <li>F: Standardised policies and procedures</li> </ul>
20 (2015)	There were weaknesses in OSC staff documentation and concerns over survivor confidentiality. OSC staff had unclear roles and responsibilities. Some of the OSC staff were found to have victimblaming attitudes, and many failed to provide necessary health information to patients. Some staff did not provide rape survivors with sensitive care and failed to spend time to console patients after report of sexual assault. There was a lack of OSC staff training, with more than half of the staff having never attended any training sessions in OSC management even after some had worked for years in the OSC.	High	<ul> <li>B: Poor documentation and data management systems</li> <li>B: Compromised confidentiality and privacy</li> <li>B: Unclear staff responsibilities and roles</li> <li>B: Harmful staff attitudes</li> <li>B: Harmful behaviours of health workers</li> <li>B: Failure to provide health information</li> <li>B: Inadequate training on trauma informed care and OSC operations</li> </ul>
21 (2017)	Follow-up was a common issue, and 42% or 938 survivors had no follow-up	High	▶ B: Lack of long-term support and follow-up
22 (2011)	44% of survivors were reported to receive counselling at the centre. There was a lack of available psychosocial support, and only one counsellor was available during standard business hours throughout the duration of this study. There was a lack of support for survivors who presented at night or on weekends. Another barrier was lack of awareness of OSC services and support for women rape survivors in the community. Clear protocols were noted to assist in improved documentation at the centre.	High	<ul> <li>B: Lack of adequate psychosocial services and staff</li> <li>B: Lack of services on nights and weekends</li> <li>B: Lack of community awareness of OSC services</li> <li>F: Standardised policies and procedures</li> </ul>
23 (2006)	There was a lack of survivor-centred care, with privacy concerns. Survivors had to wait in their blood stained, dirty clothes until the healthcare worker could examine them. There was also a lack of provision of health information, such as STI, HIV and pregnancy risk after sexual assault. Long waiting times were also a concern at the hospital.	Low	<ul> <li>B: Compromised confidentiality and privacy</li> <li>B: Failure to provide health information</li> <li>B: Long wait times</li> </ul>
24 (2017)	The perceived degree of interdisciplinary collaboration was lowest among social workers, who felt less trust, respect, informal communication and understanding between collaborators. Healthcare workers perceived the least support from their organisation. Support from higher management and regular interagency meetings were viewed as helpful to improve collaboration.	High	<ul> <li>B: Weak multi-sectoral collaboration</li> <li>F: Regular interagency meetings</li> <li>F: Support from executive leadership</li> <li>F: Increased interprofessional interaction opportunities</li> </ul>
25 (2016)	Follow-up attendance after the incident was 57.8%, 63.6%, 59.1% and 46.8% at 2 weeks, 6 weeks, 3 months and 6 months, respectively. Overall, less than half of survivors returned for follow-up visits.	Low	▶ B: Lack of long-term support and follow-up

OSC, one stop centre; STI, sexually transmitted infections.

#### **Quantitative synthesis**

A total of eight studies with quantitative data had findings relevant to the review. 18-25 Meta-analysis was not possible due to wide variations in study designs, measures and outcomes. Instead, descriptions of relevant findings from quantitative studies including data found in results and discussion sections are presented (table 3). Enablers and barriers that emerged from the quantitative studies are incorporated into the thematic synthesis.

# **Qualitative synthesis**

Nineteen studies used qualitative methods and 16 used mixed methods. Perspectives varied by study, including survivors, staff and other stakeholders such

as policymakers and donors (see S4 Table). Tables 4A,B presents the summary of study findings and the CERQual confidence assessments; table 4A presents barriers and table 4B presents enablers.

# **Governance and leadership**

Laws, policies and procedures

Supportive laws and policies on violence against women gave OSCs legitimacy and generated high-level commitment from government officials (moderate confidence (MC)). <sup>10</sup> <sup>11</sup> <sup>26</sup> <sup>28</sup> Some OSCs that lacked standardised operating procedures (SOPs) struggled to provide consistently high-quality care (MC). <sup>10</sup> <sup>15</sup> <sup>16</sup> <sup>28</sup> <sup>30</sup> <sup>31</sup> The implementation of many SOPs faced significant challenges due to lack of

Table 4A Summa	Summary of findings: barriers					
Third order themes	Second order themes	First order themes barriers	Contributing studies	CERQual confidence level	Confidence assessment explanation	Illustrative examples
Leadership and governance	Laws, policies and procedures	Unclear, uncontextualised or unavailable OSC policies and procedures	10 11 15 29–31	Moderate	Six studies with minor to significant methodological limitations. Fairly thick data from 13 countries, including one multi-country study of 11 countries in the Asia-Pacific region. Fairly high coherence.	'The 1996 MOH circular did not specify how the centres should be created In reality, it was very much left at the discretion of each hospital's director to develop its own procedures.' (Malaysia, 15)
	Governing bodies	Ineffective advisory meetings and committees		Low .	Three studies with moderate to significant methodological limitations. Adequate data but only from two countries. Level of coherence unclear due to limited data, but findings were similar across studies	"some members of the committees were not regularly participating, or had not been updated by their officials who had participated in meetings. In all four districts a couple of (advisory committee) members were unaware of their [OSC].' (Nepal, 38)
		Lack of oversight and supervision from governing bodies	10 11 27 30 36 38–40	Moderate	10 studies with minor to significant methodological limitations. Fairly thick data from eight countries. High coherence.	'There's no oversight or monitoring of any of these institutions There is no monitoring of any kind. Accountability of the government is zero.' (India, 46)

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Table 4A Continued	pen					
Third order themes	Second order themes	First order themes barriers	Contributing studies	CERQual confidence level	Confidence assessment explanation	Illustrative examples
		Poor transfers of management	35 36 39	Low	Three studies with minor to significant methodological limitations. Fairly thick data from two countries. Unable to assess coherence as only three contributing studies from two countries, but findings were similar among studies.	Poor relationships largely seemed the result of a poorly handled transition from a NGO service to a Thuthuzela Centre (TCC). At two sites respondents reported arriving at work 1 day to be met by National Prosecuting Authority staff, and the announcement 'This is now our TCC.' (South Africa, 43)
	Political will	Lack of political will and 10–12 government investment 38–42 on issues of IPV/SV	will and 10–12 15 27 29 31 33 36 estment 38–42 //SV	High	13 studies with minor to significant methodological limitations. Thick data from 12 countries. Moderate to high coherence.	'The OSCCs are physically there but then they are not staffed! felt that they (Ministry of Health) were not willing to put in extra money! think it is just a political will, it was not their priority.' (Malaysia, 15)
Health system resources	Equipment and supplies	Lack of basic medical supplies, facility equipment and survivor comfort items	11–13 15 26 27 30 35–39 41 42 44	High	15 studies with minor to significant methodological limitations. Thick data from 14 countries. High coherence.	'There were insufficient examination tables, focus lights, and medico-legal investigation materials and no rape or post exposure prophylaxis kits.' (Nepal, 38) 'Another challenge is we don't have panties for adult woman so when one is raped she has to leave now the panty for DNA then they go now without panties.'

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Third order themes	Second order themes	First order themes barriers	Contributing studies	CERQual confidence level	Confidence assessment explanation	Illustrative examples
	Information and monitoring	Poor documentation and data management systems	11 13 19 26–29 31 34 40 41 45 46	High	14 studies with minor to significant methodological limitations. Thick data from 22 countries. High coherence.	'Some staff at specialised and district hospitals were sometimes unsure how to proceed with IPV cases, what injury to document, in what detail, how and what questions to ask, where to refer women.' (Malaysia, 16)
		Lack of facility-level monitoring mechanisms	12 13 27-30 34 36 40 45 46	High	11 studies with minor to significant methodological limitations. Thick data from 22 countries, including multi-country studies from Africa and the Asia-Pacific region. Reasonable level of coherence.	'The team has little capacity or tools to systematically collect and aggregate data. No analysis of all the available data to inform the programme and guide implementation is currently being undertaken.' (Rwanda, 52)
	Operation costs	Operation costs not feasible in low-resource settings	10 12 15 27–30 33 35 36 38 46	Moderate	11 studies with minor to significant methodological limitations. Relatively thick data from 17 countries. Reasonable level of coherence.	'Some OSC services were disrupted by funding constraints; one centre ran without electricity, water, and telephone lines for long stretches of time due to cost.' (South Africa, 44)
		Lack of designated budgets and budget transparency	10 30 35–37 45	Low	Six studies with minor to significant methodological limitations. Adequate data from four countries. High level of coherence.	Six studies with 'In Malaysia, the OSCs minor to significant budget was under the methodological emergency department, limitations. Adequate which resulted in no data from four dedicated budget for OSCs.' countries. High level (Malaysia, 15).
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Table 4A Continued	per					
Third order themes	Second order themes	First order themes barriers	Contributing studies	CERQual confidence level	Confidence assessment explanation	Illustrative examples
		Unsustainable, donordependent funding sources	27 30 35 36 38 42 45 47 48	Moderate	Nine studies with minor to significant methodological limitations. Fairly thick data from six countries, and three from South Africa. High level of coherence.	'When a contract with one donor ended, it lead five organisations in South Africa, that were reliant on this donor's funding, to terminate OSC services.' (South Africa, 43)
Service delivery	Quality of care	Lack of adequate psychosocial services and staff	9 13 15 21 25 27 28 30 31 35 38-41 46 47	High	16 studies with minor to significant methodological limitations. Thick data from 14 countries. High level of coherence.	'We are asked to speak with the victims and help them, but we don't have expert psychologists. I have read some books but it's not the same.' (India, 46) In an evaluation of 12 centres in Pakistan, only one had a psychiatrist. (Pakistan, 47)
		Failure to provide health 13 27 30 34 35 45 information	13 27 30 34 35 45	Low	Three studies with minor to significant methodological limitations. Thin data from three countries. Adequate level of coherence.	'The health information given to the participants was also lacking, with the victims not informed about the risk of contracting STIs/HIV or becoming pregnant.' (South Africa, 31)

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Third order themes	Second order themes	First order themes barriers	Contributing studies	CERQual confidence level	Confidence assessment explanation	Illustrative examples
		Ineffective clinical care protocols	15 27 29–31	Moderate	Five studies with minor to significant methodological limitations. Fairly thick data from 13 countries, including one multi-country study of 11 countries in the Asia-Pacific region. High coherence.	'In the absence of clear guidelines and protocols, clinical services related to GBV remain inconsistent and ad hocWithout protocols, there is some concern that many, healthcare workers will only treat physical injuries and even pass judgement about the survivor's role in the abuse.'  (Timor-Leste, 11)
		Lack of long-term support and follow-up services	19 22 26–31 33 35 36 38 40 41 49	Moderate	Nine studies with minor to significant methodological limitations. Fairly thick data from 12 countries throughout Africa and Asia. High level of coherence.	'We are not able to assure them because there is no follow-up; when they get out of here, everything is like we are finished with them.' (Zambia, 14)
		Compromised confidentiality and privacy	19 22 27 59	High	12 studies with minor to significant methodological limitations. Fairly thick data from 14 countries. High level of coherence.	'One victim's father fought with the hospital ward sisters for the patient files we have to make a system such that perpetrators and victims will be anonymous.' (Nepal, 56)
		Lack of security at OSC	27 30 36 38 49	Low	Five studies with minor to significant methodological limitations. Adequate data from three countries. High level of coherence.	'What our safety is concerned, we are alone here over weekends and at night, and that is quite a risk.'  (South Africa, 13)
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Third order themes	Second order themes	First order themes barriers	Contributing studies	CERQual confidence level	Confidence assessment explanation	Illustrative examples
		Lack of child and adolescent-friendly services and environment	15 27 30 33 38 46	Low	Six studies with minor to significant methodological limitations. Fairly thick data from five countries. High level of coherence.	'Neither NGO-owned OSC had special provisions for infants and children in their written guidelines or protocols for the clinical management of sexual and gender based violence (SGBV).'  (Kenya, Zambia, 12)
	Accessibility	High out-of-pocket costs to survivors for referral services	13 25 26 29 30 39 41–43 45 50	Moderate	11 studies with minor to significant methodological limitations. Moderately thick data from 20 countries, including four studies reporting on India. Moderate level of coherence.	'Referrals by [OSCs] to other hospitals for cases such as skin grafts, or to an eye hospital or for psychiatric treatment showed no results due to shortages of funds that prevented survivors from going there.' (Nepal, 38)
		Lack of services on night and weekends	11 12 21 25 27 31 33 35–38 42 43 46	High	14 studies with minor to significant methodological limitations. Thick data from 10 countries. High coherence.	'Now in my case also, such incidents happened at night, kerosene was poured on me, they tried to kill me, beat me, I couldn't go anywhereFor the whole night I kept sitting like that.' (India, 51)
		Long wait times	13 22 25 26 30 33 35 38 48	Moderate	Nine studies with minor to significant methodological limitations. Adequate data from 10 countries. High coherence.	'The OCMC staff nurses were at times unable to provide timely services due to their workloads and consequently some survivors had to wait several hours.'
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Third order themes	Second order themes	First order themes barriers	Contributing studies	CERQual confidence level	Confidence assessment explanation	Illustrative examples
		Lack of transportation to OSC	15 27 30 33 38 46	Moderate	12 studies with minor to significant methodological limitations. Fairly thick data from 13 countries, many countries in Africa, including four studies reporting on South Africa. Non-African contexts include studies from Bangladesh, Pakistan, Papua New Guinea, and Nepal. High level of coherence.	The biggest hurdle we are facing is the lack of transport becausein most cases it is the victim who pays for all transport costs.' (Zambia, 14) If employed, some survivors could not afford the time off work to make regular trips to the TCC and, if unemployed, did not possess the means for such travel.  (South Africa, 43)
		Lack of access to rural populations	26 27 33 35 42 43 59	Moderate	Seven studies with minor to significant methodological limitations. Fairly thick data from 11 countries. High level of coherence.	'There was a need to bring more (OSC) services directly to (rural) communities via mobile-support clinics, providing bicycles for counselling staff; or the provision of transport vouchers or refunds for clients.'  (Zambia, 53)
		Lack of community awareness of OSC services	21 27 29 30 36 37 39 43 45 48 51 59	High	13 studies with minor to significant methodological limitations. Thick data from 14 countries. High coherence.	'Walk-in patients in our one stop centres are very few.  Not much awareness. (India, 46) "(The OSC) was largely deserted despite awareness raising efforts.' (S. Africa, 44)

Third order Acceptability Lack of representative and acceptability at the extraction of the community ballets and community ballets and expensive and not of non-verticate approximation of non-vertication and acceptability and ac							
Acceptability   Lack of representative   Second order themes   Contributing studies   Confidence   Acceptability   Lack of representative   30.37.42.43.47   Low   Five studies with minor to significant methodological minor to significant and sceptical   15.26.30.35.36.43   Low   Five studies with community beliefs and contributions   Accordance   Contextual variations   Accordance   Accordanc	lable 4A Continu	ned					
Lack of representative 30 37 42 43 47 Low Five studies with staff minictor significant methodological limitations.  Hostile and sceptical community beliefs and adequate community beliefs and not feasible in rural and not receive as principle of other services (eg. 10 11 14 28 Low Stradies with minor to significant methodological limitations. Adequate data from seven countries. Adequate desible in rural and not roon-tertiary care decrease priority of or non-tertiary care decrease priority of other services (eg. 10 11 14 28 Low Stradies with moderate other services (eg. 10 11 14 28 Low Stradies with moderate other services (eg. 10 11 14 28 Low Stradies with moderate other services (eg. 10 11 14 28 Low Stradies with moderate other services (eg. 10 11 14 28 Low Stradies with moderate other services (eg. 10 11 14 28 Low Stradies with moderate other services (eg. 10 11 14 28 Low Stradies with moderate other stradies with moderate other stradies with moderate finitiations. Thin data finitiations. Thin data finitiations. Fairly strigmatisation methodological limitations. Fairly thin data from three countries. Moderate occurries. Adequate color from two countries. High coherence.	Third order themes	Second order themes	First order them barriers	Contributing studies	CERQual confidence level	Confidence assessment explanation	Illustrative examples
efs and contrines. How minor to significant methodological limitations. Adequate data from seven countries. Adequate data from seven countries. Adequate coherence.  OSCs 10 11 14 28 Low Four studies with minor to significant methodological limitations. Fairly thin data. Moderate coherence.  OSCs 28 30 Low Four studies with minor to significant methodological limitations. Fairly thin data. Moderate to significant methodological limitations. Thin data from two countries. High coherence.  CSCs 15 33 47 Low Three studies with moderate to significant methodological limitations. Thin data from three countries. High data from three countries. Moderate coherence.		Acceptability	Lack of representative staff	30 37 42 43 47	Low		'Women rarely come to police stations to lodge complaints, mainly because the majority of officers are men.'
oscs 10111428 Low Four studies with minor to significant and/ methodological limitations. Fairly thin data. Moderate coherence.  OSCs 28 30 Low Two studies with moderate to significant methodological limitations. Thin data from two countries. High coherence.  Cs 15 33 47 Low Three studies with moderate to significant methodological limitations. Thin data from two countries. High coherence. Coherence.			Hostile and sceptical community beliefs and attitudes	15 26 30 35 36 43	Low	4)	'People say, 'You should not go there. Don't go to the doctor and don't go to the police.' 'Let's resolve this matter here at home." (Kenya, Zambia, 12)
Low Two studies with moderate to significant methodological limitations. Thin data from two countries. High coherence.  Three studies with moderate to significant methodological limitations. Fairly thin data from three countries. Moderate coherence.		Contextual variations	Hospital-based OSCs expensive and not feasible in rural and/ or non-tertiary care settings	10 11 14 28	Low	Four studies with minor to significant methodological limitations. Fairly thin data. Moderate coherence.	'It is a reality that this(hospital-based)model can be very costly for hospitals with sparse human resources.' Kenya and Zambia, 11)
Cs 15 33 47 Low Three studies with moderate to significant methodological limitations. Fairly thin data from three countries. Moderate coherence.			Hospital-based OSCs decrease priority of other services (eg, legal, justice, social services)	28 30	Low		'Health facility-based OSCs provide the broadest range of health and psychological services for survivors. However, their linkage to the legal and justice systems is weak.' (Mongolia, 36)
			Stand-alone OSCs increase risk of stigmatisation	15 33 47	Low	Three studies with moderate to significant methodological limitations. Fairly thin data from three countries. Moderate coherence.	'It took me a lot of courage before I finally came. When people see you on these benches (in the waiting area), they will say you are one of those women who are normally beaten.'

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Third order themes	Second order themes	First order themes barriers	Contributing studies	confidence level	assessment explanation	Illustrative examples
		Stand-alone OSCs not equipped to meet medical needs of survivors	15 27 33	Low	Three studies with moderate to significant methodological limitations. Fairly thin data from three countries. Moderate coherence.	'In the stand-alone model, medical staff are not available 24 hours a day, and survivors need to be driven and escorted to a health facility for services not available at the standalone centres (eg, surgery, stitches, x-rays), also during which time evidence may be lost.'
		NGO-run OSCs less available to allow continuity of care	26	Low	One study with significant methodological limitations. Thin data. Unable to assess coherence.	'Coordination of voluntary organisation is very poor. NGOs are not available always to ensure the continuity of service.' (Bangladesh, 34)
Coordination	Interprofessional collaboration	Weak multi-sectoral collaboration, including lack of equal recognition and respect of implementing partners	9–11 15 23 25–30 33 35–39 42 43 45–48 50 51 60	High	27 studies with minor to significant methodological limitations. Thick data from 17 countries. Fairly high coherence.	'In some countries, there are a number of different agencies running different OSCCs in different sites The lack of coordination between these different agencies leads to issues with consistency of care.' (PNG, 11)
		Multiple stops/ fragmented services	11 15 30 31 34 39 48	Moderate	Seven studies with minor to significant methodological limitations. Fairly thick data from six countries. High coherence.	'It is clear that instead of being a "one stop", the process may at times be lengthy and fragmented.' (Malaysia, 16) 'It's a failed project. The concept was that police investigations, medical, and legal help, all would be provided in one place.' (India, 46)
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Third order themes	Second order themes	First order themes barriers	Contributing studies	CERQual confidence level	Confidence assessment explanation	Illustrative examples
		Lack of information sharing between OSC sites	26 27 29 39 45	Low	Five studies with minor to significant methodological limitations. Thin data from 14 countries. Thinness likely due to the difficulty in providing significant detail on inaction (lack of sharing). Reasonable level of coherence.	'The new one stop centres devised by the government had failed to consult existing centres or learn from them.' (India, 46)
	Patient navigation and referrals	Weak referral networks and lack of referral options	9 11 15 27–30 34 36 37 41 47 50 51	High	14 studies with minor to significant methodological limitations. Fairly thick data from 16 countries. High coherence.	'Both centres encountered problems of underutilisation due to lack of referrals.' (South Africa, 44)
		Navigation challenges within facility	15 30 48	Low	Three studies with minor to moderate methodological limitations. Adequate data but only from three countries. Moderate level of coherence.	Three studies with There was also no minor to moderate information available in citizen's charters, limitations. Adequate receptions, outpatient data but only from departments, emergency three countries. departments and in corridors, thus making it difficult for survivors to locate OCMCs.'  (Nepal, 38)
	Clarity of roles and responsibilities	Unclear responsibilities and lack of ownership of implementing partners	10 27 29 30 33 35 36 38 39	Moderate	11 studies with minor to significant methodological limitations. Fairly thick data from 14 countries. Fairly high coherence.	'The assessment team found generally limited horizontal coordination and collaboration between the district-level stakeholders represented on DCCs. This has resulted in inadequate ownership and awareness of OCMC services.'
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Third order themes	Second order themes	First order themes barriers	Contributing studies	CERQual confidence level	Confidence assessment explanation	Illustrative examples
		Unclear staff responsibilities and roles	19 28 30 35 38 39 44 45	Low	Eight studies with minor to significant methodological limitations. Fairly thick data from five countries. High coherence.	'There seems to be a widespread uncertainty among providers about what their role should include.'
Human workforce and development	Knowledge, attitudes and behaviours	Lack of OSC staff knowledge on IPV/SV	27 29 30 34 36 44 48	Moderate	Nine studies with minor to significant methodological limitations. Fairly thick data from 15 countries. Adequate coherence.	'Only a quarter of the providers in Penang mentioned sexual abuse among the types of acts that may characterise domestic violence.' (Malaysia, 51)
		Harmful staff attitudes on IPV and SV	13 19 28 30 34 38 42-44	High	11 studies with minor to significant methodological limitations. Thick data from 13 countries. High coherence.	'Some of them, it is especially those young girls like 14, 15 and 16 years, they also expose themselves to situations that encourage somebody to rape them. Like when we have dancing and the way they behave, sometimes their behaviours itself, the way they walk.' (Uganda, 14)
		Harmful behaviours of healthcare workers	19 38 42 43 48	Low	Five studies with minor to moderate methodological limitations. Thick data from five countries (Bangladesh, India, Kenya, Malaysia, and South Africa). High coherence.	'A major problem is that often the victim is treated badly. When she is admitted in the hospital the doctors and nurses do not behave well with the victim and they assume 'she is a bad girl.' They see her as the problem, 'someone who asked for the problem.' (Bangladesh, 49)
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Table 4A Continued	ned					
Third order themes	econd order themes	First order themes barriers	Contributing studies	CERQual confidence level	Confidence assessment explanation	Illustrative examples
		Corruption and mistreatment by police	15 26 34 38 42 43 47 48	High	10 studies with minor to moderate methodological limitations. Thick data from 11 countries. High coherence.	Some police officers were found to accept bribes from perpetrators in exchange for dropping survivors' cases. (Kenya and Zambia, 12)
	Training and development	Inadequate training on trauma informed care and OSC operations	9 11 15 19 27 29-31 33 34 38 40 41 44-46	High	15 studies with minor to moderate methodological limitations. Thick data from 16 countries. High coherence.	'More than half of staff at the OSC had never participated in a staff training in OSC management, even after years of working at the OSC.' (Malaysia, 28)
	Staffing and conditions	Healthcare worker time constraints	Healthcare worker time 10 11 27 30 34 35 41–44 47 constraints	Moderate	11 studies with minor to moderate methodological limitations. Thick data from six countries. High coherence.	'We don't have enough time to go in the separate room, to take a long history, so we are not going to ask the reasons why she was battered and go in deep depth on that it's just 'ok, next patient next patient." (Malaysia, 51)
		Insufficient staff	11 25-27 29-31 33-38 40 42 <b>High</b> 44 46 47	High	18 studies with minor to moderate methodological limitations. Thick data from 15 countries. High coherence.	'Even if they want to come, there are not enough staff, so they cannot come.' (Malaysia, 16)
		Staff burnout	16 33 44 45 50	Low	Five studies with minor to significant methodological limitations. Thick data from five countries. High coherence.	"What I am doing now, I feel it is not enough I feel very depressed because I can't do much.' (Malaysia, 51)
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CERQual, Confidence in the Evidence from Reviews of Qualitative Research; GBV, gender-based violence; IPV, intimate partner violence; MOH, Ministry of Health; NGO, non-governmental organisation; OSC, one stop centre; OSCC, one stop crisis centre; STI, sexually transmitted infections; SV, sexual violence.

Table 4B Su	Summary of findings: enablers	ers				
Third order themes	Second order themes	First order themes enablers	Contributing studies	CERQual confidence level	Confidence assessment explanation	Illustrative examples
Leadership and governance	Laws, policies and procedures	Supportive laws and policies on VAW	9 10 25–27	Moderate	Five studies with minor to significant methodological limitations. Fairly thick data from five countries. Moderate coherence.	'The 1994 domestic violence Law gave IPV what policy theorists in the literature refer to as 'legitimacy.' OSCCs acquired national credibility as a feasible policy solution to the VAW problem, resulting in official MOH support on the issue.' (Malaysia, 15)
		Standardised policies and procedures	13 18 21 27 29 31–33	Moderate	Seven studies with minor to significant methodological limitations. Thick data from 19 countries. High coherence.	'The example of Timor-Leste shows how protocol development in line with the local context has been effective.' (Timor-Leste, 11)
	Governing bodies	Regular interagency meetings to coordinate services and support, address challenges, and delegate tasks	9 10 23 29 30 33–36	Moderate	Three studies with minor to significant methodological limitations. Thick data from 14 countries. Fairly high coherence.	Regular interagency meetings with partners from the police, social welfare, legal aid and NGOs, helped improve OSCC services, and, indirectly, forced the government agencies to monitor services.'
	Political will	Support from higher leadership	9–11 23 29 30 33–35 38 43 Moderate	Moderate	Seven studies with minor to significant methodological limitations. Thick data from 14 countries, mostly Asia. Fairly high coherence.	'The fact that the initial implementation process was government-led added credibility to the request for specific services for abused women and to the entire process, and made it acceptable.' (Malaysia, 15)
Service	Quality of care	Available, on-site psychological services and support groups	10 15 27 30 34 43 45	Moderate	Seven studies with minor to significant methodological limitations. Thick data from seven countries. High coherence.	'Throughout their interviews, women reported on the benefits of the counselling sessions many used the terms 'relieved' to express how they felt following their meetings with counsellors.' (India, 50)
		Minimised return visits and points of care to receive necessary diagnostics and medications	13 32	Low	Two studies with moderate to significant methodological limitations. Thick data from seven countries. High coherence.	'Patients given a full course of drugs on first visit were much more likely than those given a starter pack with follow-up appointments to have taken PEP for 28 days.' (South Africa, 40)

Table 4B Cc	Continued					
Third order themes	Second order themes	First order themes enablers	Contributing studies	CERQual confidence level	Confidence assessment explanation	Illustrative examples
	Accessibility	Affordable medical services	15 30 33 38	Low	Four studies with minor to significant methodological limitations. Thick data from four countries. High coherence.	'To me, I had no money. Then I thought, hospital=money. I just went home. So later, after a suicide attempt, my friend told me that there are counselling services at Kenyatta (National Hospital) and they are free.' (Kenya and Zambia, 12)
		Community awareness activities	13 32 34 43 46	Low	Five studies with minor to significant methodological limitations. Thick data from 10 countries. High coherence.	'A 10-site GBV programme in Zambia utilised community radio programme 82% of respondents reported having been informed about the GBV programme from the radio phone-in programme.' (Zambia, 53)
	Contextual variations of OSC models	Hospital-based OSCs better equipped to provide full range of services, including medical services	11 15 27–29 34 35 43 45 46 60	Moderate	10 studies with minor to significant methodological limitations. Thick data from 18 countries. High coherence.	'Emergency cases and women in need of urgent care come to the hospital for treatment and so steps can be taken immediately to assist those women.'
		Hospital-based OSCs more accessible to larger sectors of the population including minority groups	34 43 45 46	Low	Four studies with minor to significant methodological limitations. Fairly thick data from four countries. Moderate coherence.	'I particularly liked the fact that it is located within a hospital since childhood I am seeing all the women coming here.' 'It (the location) is good. Women come to the hospital and come to know about this centre, so it is popular.' (India, 51)
		Hospital-based OSCs better allow multisectoral collaboration	10	Low	One study with significant methodological limitations. Thin data. Unable to asses coherence.	'The hospital-based OSCCs have particularly good working relationships with the police and public prosecutors and conduct complex case conferences with internal and external partners to ensure effective coordination.' (Thailand, 10).
						Continued



Table 4B Cc	Continued					
Third order themes	Second order themes	First order themes enablers	Contributing studies	CERQual confidence level	Confidence assessment explanation	Illustrative examples
		NGO-run OSCs provide better psychosocial support	15 27 34 38 43	Low	Five studies with moderate to significant methodological limitations. Fairly thin data from three countries. Fairly high coherence.	'The NGO brings skills in research, documentation and training and most importantly, in feminist counselling.'
Coordination	Interprofessional collaboration	Strong interprofessional staff relationships	10 11 30 33 35 36	Low	Six studies with minor to significant methodological limitations. Thick data from four countries. High coherence.	'The site coordinator had gone out of her way to include all parties in its working and management. It therefore felt more collaborative and this had helped build trust between parties.' (South Africa, 43)
Human workforce and development	Knowledge, attitudes and behaviours	Sensitive staff attitudes, and behaviours	11 30 43 44 59	Low	Five studies with minor to moderate methodological limitations. Thick data from four countries. High coherence.	'I had no idea (about Dilaasa at first). But after talking to them (the counsellors) I felt that I have their support. They are ready to help me.'
		Referral by sensitive healthcare worker	43	Low	One study with minor methodological limitations. Relatively thick data but only from one county, India. Unable to assess coherence as only one contributing study.	'The level of sensitivity and care taken (by the physician) to provide this woman with crucial information seems to have been an important factor in facilitating her access to necessary care.'
	Staffing and conditions	Champion, dedicated OSC staff leaders	10 13 27 30 36 43 44	Moderate	Seven studies with minor to significant methodological limitations. Thick data from 13 countries, mostly Asia. High coherence.	'The assessment found that, in most cases, OSSCs operated thanks to the hard work of a few dedicated staff members in collaboration with other partners on a very limited budget.' (India, 50)

The key barriers and enablers emerging from the review are discussed below by theme. CERQual, Confidence in the Evidence from Reviews of Qualitative Research; GBV, gender-based violence; IPV, intimate partner violence; MOH, Ministry of Health; NGO, nongovernmental organisation; OSC, one stop centre; OSCC, one stop crisis centre; PEP, pre-exposure prophylaxis; VAW, violence against women.



content, contextualisation, availability or visibility within the facility (MC).  $^{10-12\ 15\ 16\ 30\ 31}$  Conversely, OSCs with SOPs found they enhanced clarity of staff roles, patient flow and referral pathways (MC).  $^{10\ 14\ 15\ 19\ 22\ 28\ 31-33}$ 

## Governing bodies

For some well-established OSCs, regular interagency meetings helped to identify challenges and coordinate responses (MC). <sup>10</sup> <sup>11</sup> <sup>15</sup> <sup>24</sup> <sup>30</sup> <sup>33</sup>–36 In two reviews of hospital-based OSCs in Southeast Asia and one stand-alone centre in South Africa, facility-level advisory committees were ineffective, facing challenges such as lack of participation (lower confidence (LC)). <sup>30</sup> <sup>36</sup> <sup>37</sup>

Some OSCs found that lack of high-level oversight by OSC management led to uncoordinated and delayed services (MC). <sup>11</sup> <sup>12</sup> <sup>17</sup> <sup>28</sup> <sup>30</sup> <sup>36</sup> <sup>38</sup> <sup>39</sup> OSCs also faced challenges during transitions of ownership (such as from NGO to local government), and many felt transitions were done hurriedly and without clear instructions, resulting in poor accountability and inter-professional staff relationships (LC). <sup>35</sup> <sup>36</sup> <sup>38</sup>

#### Political will

Many centres across contexts described 'lack of political will' as a central cause of facility-level challenges (high confidence (HC)).  $^{10-13}$   $^{15-17}$   $^{28}$   $^{31}$   $^{33}$   $^{36}$   $^{38-41}$  Conversely, executive support, from local managers to national officials, facilitated acceptance of the OSC model (MC).  $^{10-12}$   $^{15}$   $^{17}$   $^{24}$   $^{30}$   $^{33-35}$   $^{42}$ 

# **Health system resources**

## Equipment and supplies

Lack of basic resources was common at OSCs in LMICs, and compromised quality of care (HC).  $^{12-14161727283035-38404143}$  Some sexual assault centres reported insufficient basic comfort items like clean clothes and sanitary pads, as well as other basic supplies (HC).  $^{172835}$ 

## Information and monitoring

Poor documentation and data management were seen across contexts (HC). <sup>10</sup> <sup>12</sup> <sup>14</sup> <sup>15</sup> <sup>20</sup> <sup>27</sup>-<sup>29</sup> <sup>31</sup> <sup>34</sup> <sup>39</sup> <sup>40</sup> <sup>44</sup> <sup>45</sup> Reasons for this included lack of staff knowledge on how to document violence, outdated information systems, variable record keeping procedures and the ethical and logistical challenges of tracking survivors. A related barrier was lack of evaluation and research; many sites gathered data, but failed to analyse data (HC). <sup>10</sup> <sup>13</sup> <sup>15</sup> <sup>28</sup> <sup>28</sup> <sup>30</sup> <sup>34</sup> <sup>36</sup> <sup>39</sup> <sup>44</sup> <sup>45</sup>

## Operation costs

In 17 different countries, the cost to operate OSCs was a significant challenge, seen at both hospital-based and stand-alone OSCs, as well as government-run and NGO-run OSCs (MC). <sup>10</sup> 11 13 15–17 28–30 33 35 36 45 Some OSCs were forced to weaken or forgo services due to cost, for example, through decreased operation hours, <sup>12</sup> 13 17 22 26 28 31 33 35–37 41 42 45 or heavy reliance on volunteers. <sup>33</sup> 35 36 45 Some of the evaluation teams intended to conduct cost analyses of OSC, but never did due to lack of resources, capacity and data availability, limiting

cost data. A challenge seen in some government-run OSCs was lack of budget planning and transparency, due to issues such as stakeholder disputes (LC). 11 30 35-37 44 Some non-profit OSCs faced delayed and sporadic donor disbursement of funds which negatively impacted continuity of care and sustainability (MC). 17 28 30 35 36 41 44 46 47

# Service delivery

## Quality of care

In over 14 countries, OSCs of all types were unable to provide adequate psychological support due to lack of trained staff (HC). <sup>10</sup> <sup>14</sup> <sup>16</sup> <sup>17</sup> <sup>22</sup> <sup>26</sup> <sup>28</sup>-<sup>31</sup> <sup>35</sup> <sup>38</sup>-<sup>40</sup> <sup>45</sup> <sup>46</sup> In some of these situations, untrained volunteers sometimes provided psychosocial support. <sup>31</sup> <sup>33</sup> <sup>45</sup> OSCs that provided on-site and trained psychosocial services were better equipped to provide quality care (MC). <sup>11</sup> <sup>16</sup> <sup>28</sup> <sup>30</sup> <sup>34</sup> <sup>42</sup> <sup>44</sup>

In 14 reports from 10 countries, OSC operation hours were limited on nights and weekends (HC). <sup>12</sup> <sup>13</sup> <sup>17</sup> <sup>22</sup> <sup>26</sup> <sup>28</sup> <sup>31</sup> <sup>33</sup> <sup>35</sup> <sup>37</sup> <sup>41</sup> <sup>42</sup> <sup>45</sup> This was perceived to be a major barrier by survivors, OSC staff and OSC stakeholders across settings, as these are times survivors often faced violence. Long waiting times also restricted access to care at OSCs (MC). <sup>14</sup> <sup>17</sup> <sup>23</sup> <sup>26</sup> <sup>27</sup> <sup>30</sup> <sup>33</sup> <sup>35</sup> <sup>47</sup>

At some hospital-based OSCs, health workers failed to provide survivors with important health information, such as pregnancy or sexuallytransmitted infections risk (LC). <sup>18 20 23 28</sup> Many OSCs were not equipped to provide follow-up services such as long-term counselling or follow-up medical care, which was perceived to be a barrier by survivors and OSC staff in some settings (MC). <sup>14 28 30 34 35 44</sup> At sexual assault centres, minimised points of care was a enabler to adherence and follow-up care, such as providing the full 28-day course of PEP drugs at first visit. (LC). <sup>14 32</sup>

## Survivor-centredness

Data from 14 countries demonstrated that OSCs often violated patient confidentiality and privacy, for example, by lack of private consultation rooms (HC). <sup>10</sup> <sup>15</sup> <sup>17</sup> <sup>20</sup> <sup>23</sup> <sup>27-31</sup> <sup>33</sup> <sup>35</sup> <sup>36</sup> <sup>39</sup> <sup>40</sup> <sup>48</sup> Some OSCs lacked security personnel or systems, and survivors and staff expressed fear for their safety (LC). <sup>17</sup> <sup>28</sup> <sup>30</sup> <sup>36</sup> <sup>48</sup> Another gap was lack of specific consideration for children and adolescents, for example, by lack of child-friendly environments (LC). <sup>16</sup> <sup>17</sup> <sup>28</sup> <sup>30</sup> <sup>33</sup> <sup>45</sup> A challenge seen at both hospital-based and stand-alone OSCs was multiple survivor interviews where staff asked similar questions, which could result in secondary victimisation (HC). <sup>14</sup> <sup>17</sup> <sup>27-30</sup> <sup>33</sup> <sup>41</sup> <sup>44</sup> <sup>47</sup>

## Accessibility

Free services at the OSC facilitated access to survivors (LC).  $^{16\ 17\ 30\ 33}$  However, 11 reports from OSCs in over 20 countries found that some survivors were forced to pay user fees (MC).  $^{10\ 14\ 15\ 26\ 27\ 30\ 38\ 40-42\ 44\ 49}$  Survivors from rural areas faced geographical barriers to access at OSCs (MC),  $^{18\ 27\ 28\ 33\ 35\ 41\ 42}$  often due to high cost of transportation (MC).  $^{14\ 16\ 17\ 27\ 31\ 35-37\ 39\ 41\ 44\ 45}$ 



At some hospital-based and stand-alone centres, there were negative perceptions of the OSC by the community (LC). <sup>16</sup> <sup>27</sup> <sup>30</sup> <sup>35</sup> <sup>36</sup> <sup>42</sup> Some communities felt OSCs were temporary or had outsider/donor-driven priorities, leading to challenging power dynamics. <sup>30</sup> <sup>36</sup>

Thirteen evaluations from 14 countries found that communities were unaware of OSC services, (HC)  $^{10\ 15\ 18\ 22\ 28\ 30\ 36-38\ 42-44\ 47\ 50}$  which was linked to low utilisation.  $^{10\ 15\ 28\ 36\ 38\ 44\ 47}$  Awareness raising activities facilitated knowledge of the OSC in some settings,  $^{14\ 32\ 34\ 42\ 45}$  although in one study in South Africa, there was low awareness despite multiple community raising efforts.  $^{36}$ 

#### Location of OSC

Hospital based-OSCs were found to be better equipped with the infrastructure to provide comprehensive services (MC). <sup>10</sup> <sup>12</sup> <sup>15</sup> <sup>16</sup> <sup>28</sup> <sup>34</sup> <sup>35</sup> <sup>42</sup> <sup>44</sup> <sup>45</sup> <sup>51</sup> In some studies, hospital-based OSCs were accessible to a larger population, including minority groups, such as those who identified as indigenous or Muslim (LC). <sup>34</sup> <sup>42</sup> <sup>44</sup> <sup>45</sup>

Stand-alone were more likely to be known within communities which risked stigmatisation (LC). <sup>16</sup> <sup>33</sup> <sup>47</sup> Some stand-alone centres were unable to manage the immediate medical needs of survivors due inadequate infrastructure, including inability to provide 24/7 services (LC). <sup>16</sup> <sup>28</sup> <sup>33</sup> OSCs managed by NGOs, whether at hospital-based or stand-alone centres, were better equipped to provide survivor-centred psychosocial care (LC). <sup>16</sup> <sup>17</sup> <sup>28</sup> <sup>34</sup> <sup>42</sup>

## **Coordination and collaboration**

# Interprofessional collaboration

The most common barrier to OSCs, cited in 27 studies, was poor multisector collaboration (HC). <sup>10–12</sup> <sup>15–17</sup> <sup>24</sup> <sup>26–30</sup> <sup>33</sup> <sup>35–38</sup> <sup>41</sup> <sup>42</sup> <sup>44–47</sup> <sup>49–51</sup> Fifteen studies reported weak partnerships with police sectors, <sup>10</sup> <sup>16</sup> <sup>26–28</sup> <sup>30</sup> <sup>33</sup> <sup>37</sup> <sup>41</sup> <sup>42</sup> <sup>46</sup> <sup>47</sup> <sup>49–51</sup> eight with legal and justice services, <sup>10</sup> <sup>16</sup> <sup>28</sup> <sup>30</sup> <sup>38</sup> <sup>47</sup> <sup>49</sup> <sup>51</sup> six with shelters <sup>27</sup> <sup>28</sup> <sup>30</sup> <sup>42</sup> <sup>45</sup> <sup>49</sup> and five with NGOs. <sup>11</sup> <sup>17</sup> <sup>26</sup> <sup>29</sup> <sup>30</sup> Several reports found that OSCs failed to share lessons learnt from implementation with stakeholders (LC). <sup>10</sup> <sup>15</sup> <sup>27</sup> <sup>28</sup> <sup>38</sup> <sup>44</sup> While OSCs were designed to provide all or most services in one location, several evaluations described services as 'fragmented' and the facility as 'not truly one-stop' (MC). <sup>12</sup> <sup>16</sup> <sup>30</sup> <sup>31</sup> <sup>34</sup> <sup>38</sup> <sup>47</sup> Several studies viewed strong interprofessional staff relationships as a enabler (LC). <sup>11</sup> <sup>12</sup> <sup>20</sup> <sup>30</sup> <sup>33</sup> <sup>35</sup> <sup>36</sup>

# Patient navigation and referrals

Some OSCs lack signage for confidentiality reasons, and some survivors had difficulty locating services within OSCs (LC). <sup>16 30 47</sup> Many OSCs noted weak referral networks and lack of referral options (HC). <sup>10 12 15 16 28–30 34 36 37 40 46 49 50</sup> Referrals were especially weak in some primary health centres, where specialists and services were most limited. <sup>36</sup>

#### Clarity of roles and responsibilities

Implementing partners often disagreed on OSC priorities, responsibilities and budgets (MC). <sup>10</sup> <sup>11</sup> <sup>15</sup> <sup>17</sup> <sup>28</sup> <sup>30</sup> <sup>33</sup> <sup>35</sup> <sup>36</sup> <sup>38</sup> At some OSCs, these disputes led to confusion among

staff on who and how services should be delivered (LC).  $^{17\ 20\ 29\ 30\ 35\ 38\ 43\ 44}$ 

#### **Human workforce and development**

Knowledge, attitudes and behaviours

Some health workers at the OSC lacked knowledge on GBV, which was a major barrier, especially in hospital-based OSCs (MC). <sup>30 34 36 43 47</sup> Some OSC staff lacked knowledge of services available at their facility. <sup>10 15 28 30 47</sup> Many staff held victim-blaming attitudes, such as that survivors solicited attacks by dress or behaviour (HC). <sup>14 17 20 29 30 34 41-43</sup> Some OSC staff behaved insensitively to survivors, for example, by scolding rape survivors (LC). <sup>17 20 41 42 47</sup> Many studies found both on-site and off-site police officers to have victim-blaming attitudes, and to mistreat survivors (HC). <sup>16 17 27 34 41 42 46 47</sup>

In hospital-based OSCs, staff with sensitive, non-judgmental attitudes towards survivors facilitated high-quality care (LC). <sup>12</sup> <sup>18</sup> <sup>30</sup> <sup>42</sup> <sup>43</sup> In one study, survivors referred to the OSC by sensitive health workers felt encouraged to access the OSC (LC). <sup>42</sup> At some OSCs, a small number of dedicated 'champion' staff were needed to ensure the OSC continued in the face of unexpected challenges (MC). <sup>11</sup> <sup>14</sup> <sup>28</sup> <sup>30</sup> <sup>36</sup> <sup>42</sup> <sup>43</sup> One study found that when the 'champion' left, the OSC closed or reduced services. <sup>14</sup>

## Training and support

Many OSCs, especially hospital-based centres, provided no training on how to care for survivors (HC),  $^{10\ 12\ 16\ 30\ 31\ 33\ 43}$  and little instruction on OSC policies (HC).  $^{10\ 12\ 15-17\ 20\ 28\ 30\ 31\ 33\ 34\ 39\ 40\ 43-45}$  OSCs also lacked mechanisms for sustainable knowledge acquisition such as follow-up trainings  $^{30\ 33\ 34\ 45}$  and evaluation of trainings.  $^{30\ 45}$ 

#### Staffing conditions

Eighteen studies from 15 countries showed that insufficient staff was a barrier across settings (HC).  $^{10}$   $^{12}$   $^{15}$   $^{17}$   $^{26-28}$   $^{30}$   $^{31}$   $^{33-37}$   $^{39}$   $^{41}$   $^{43}$   $^{45}$   $^{46}$  Many OSCs faced staff shortages,  $^{10}$   $^{12}$   $^{15}$   $^{17}$   $^{26-28}$   $^{30}$   $^{31}$   $^{34-37}$   $^{39}$   $^{41}$   $^{43}$   $^{45}$   $^{46}$  and high staff turnover.  $^{17}$   $^{28}$   $^{30}$   $^{33}$   $^{35}$   $^{36}$  Some OSCs, especially standalone centres, relied on volunteers to provide essential services such as psychosocial support and trauma counselling.  $^{33}$   $^{35}$   $^{36}$   $^{45}$  In one study, survivors who used the OSC felt that staff were not adequately diverse in age and marital status,  $^{42}$  while other studies found there to be a lack of female doctors,  $^{30}$   $^{41}$  and female police officers.  $^{30}$   $^{37}$   $^{46}$ 

A common barrier in hospital-based OSCs was increased staff time constraints, as responsibilities at the OSC were in addition to other job requirements (MC).  $^{11}$   $^{12}$   $^{28}$   $^{30}$   $^{34}$   $^{35}$   $^{40-43}$   $^{46}$  Some OSC staff reported burn-out due to poor health system conditions such as staff shortages (LC).  $^{16}$   $^{33}$   $^{43}$   $^{44}$   $^{49}$ 

## **Thematic synthesis**

The thematic synthesis presented in table 5 provides one framework for understanding where the enablers and barriers operate at various levels of the OSC theory of



	Table 5	Thematic synthesis	of barriers and enablers	s of the OSC model to im	aplementation and achieving intended results
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Output level		Outcome level	
Increased staff trainings on trauma-informed care	B: Increased healthcare worker time constraints <sup>M</sup>	Accessibility	E: Community awareness raising activities <sup>L</sup>
	B: Harmful staff attitudes on IPV/SV <sup>H</sup>		E: Focal person to assist user with navigation of OSC L
	B: Staff burnout <sup>L</sup>		E: Affordable medical services and support <sup>L</sup>
Reduced number of survivor interview	E: Standardised policies and procedures <sup>M</sup>		E: Minimised points of care for survivors <sup>L</sup>
	B: Lack of standardised policies and procedures <sup>M</sup>		B: Transportation cost <sup>M</sup>
	B: Inadequate training on trauma- informed care and OSC operations <sup>H</sup>		B: Lack of rural access <sup>M</sup>
	B: Unclear, uncontextualised or unavailable OSC policies and procedures <sup>M</sup>		B: Lack of services on night and weekends <sup>H</sup>
			B: Out-of-pocket user costs H
			B: Long wait times M
			B: Lack of community awareness <sup>H</sup>
			B: Navigation challenges within facility <sup>L</sup>
Reduced number of survivor interviews	E: Standardised policies and procedures <sup>M</sup>	Acceptability	B: Hostile and sceptical community beliefs <sup>L</sup>
	B: Lack of standardised policies and procedures <sup>M</sup>		B: Non-representative staff <sup>L</sup>
	B: Inadequate training on trauma- informed care and OSC operations <sup>H</sup>		
	B: Unclear, uncontextualised or unavailable OSC policies and procedures <sup>M</sup>		
More services provided at one place and all hours	E: Available, on-site psychosocial services and support <sup>M</sup>	Quality	E: Sensitive staff attitudes and behaviours <sup>L</sup>
	B: Lack of basic medical supplies, facility equipment, survivor comfort items <sup>H</sup>		E: Sensitive staff referrals <sup>L</sup>
	B: Insufficient staff <sup>H</sup>		E: Champion, dedicated OSC staff leaders <sup>M</sup>
	B: Lack of psychosocial services <sup>H</sup>		B: Failure to provide health information L
	B: Lack of security at OSC L		B: Harmful behaviours of healthcare staff towards survivors L
	B: Lack of designated budgets and budget transparency <sup>L</sup>		B: Mistreatment by police <sup>H</sup>
	B: Unsustainable, donor-dependent funding sources <sup>M</sup>		B: Lack of staff knowledge on IPV/SV <sup>M</sup>
	B: Operation costs not feasible in many low-resource settings <sup>M</sup>		B: Lack of long-term support and follow-up <sup>M</sup>
			B: Compromised confidentiality and privacy <sup>H</sup>
			B: Lack of child friendly environments <sup>L</sup>

Continued



Table 5 Continued			
Output level		Outcome level	
Increased evaluations and research	B: Poor data management systems <sup>H</sup>	Multisectoral coordination	E: Strong interprofessional staff relationships <sup>L</sup>
	B: Lack of oversight and supervision <sup>M</sup>		E: Regular interagency meetings
	B: Lack of facility-level monitoring mechanisms <sup>H</sup>		B: Weak multi-sectoral networks
			B: Unclear staff roles L
			B: Fragmented services M
			B: Poor transfers of management <sup>L</sup>
			B: Lack of information sharing between sites <sup>L</sup>
			B: Weak referral networks <sup>H</sup>
			B: Unclear responsibilities of implementing partners <sup>M</sup>
			B: Ineffective advisory committees <sup>L</sup>

H indicates high-confidence evidence. M moderate-confidence evidence. L low-confidence evidence. F, indicates enabler. E, indicates enabler. IPV, intimate partner violence; OSC, one stop centre; SV, sexual violence.

change, and includes findings from the qualitative, quantitative and mixed methods studies. Enablers and barriers were found to occur at the output level 19 times and the outcome level 32 times. It is important to note that while specific challenges and enablers have been identified, these findings do not operate in isolation, rather, they interact with and influence each other. For example, lack of standardised operating procedures affects the ability to achieve the OSC output of decreased number of survivor interviews and serves as a barrier to the OSC outcome of improved quality care. Additionally, many of

the identified barriers were due to insufficient inputs/resources. For instance, OSC budget constraints often lead to insufficient number of staff to provide the desired OSC output of 24/7 services to survivors, which negatively impacted quality of care.

The majority of studies did not compare contextual variations of the OSC model, such as hospital-based versus stand-alone centres. Figure 2 provides a brief overview of the findings from studies that did compare enablers and barriers between various forms of the OSC model. These include the hospital-based OSC, which is typically within

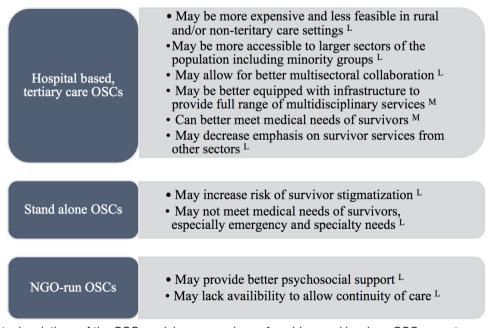


Figure 2 Contextual variations of the OSC model: a comparison of enablers and barriers. OSC, one stop centre.



a tertiary care centre, the stand-alone OSC and the OSC-run primarily by NGOs.

#### DISCUSSION

This study identified 15 barriers with high-confidence evidence that often prevented the OSC model from being implemented as designed and achieving its intended results. Implementation of the OSC model often faced several barriers including insufficient staffing, basic equipment and sustainable funding which prevented many OSCs from enacting even low-level changes, such as adequate staff trainings on trauma-informed care. With these constraints, the OSC model often faced significant barriers in producing higher-level changes, such as improved multisectoral coordination and accessibility of services. Multiple external factors often hindered implementation and achievement of intended results, such as lack of political will and government investment on issues of IPV. 10-13 15-17 28 31 33 36 38-41 Many of the barriers identified in the OSC model are similar to those identified for services being provided in traditional (non-integrated) models for survivors of violence.

Several findings with moderate-confidence evidence were identified as enabling factors to implementation and achieving intended results, but no enablers with high-confidence evidence were identified. This could be due to the lack of adequate resources/inputs to identify enablers. More rigorous evaluation would help to better elucidate enabling factors.

The findings from this review can help OSC stakeholders, including funders, governments, NGOs and advocacy and policy organisations to identify which factors may be limiting their ability to implement the OSC model and achieve its intended results, and to strategically direct investment in those areas. Prior to further scale-up, the authors recommend that OSC implementers and funders conduct facility appraisals and quality performance assessments to ensure facility preparedness to respond to violence against women with the OSC model. Review findings can also inform the development of a systematic evaluation tool of the OSC model using the theory of change and result-based management framework.

There are several evidence gaps in the contributing studies, most notably, lack of contextual details in the primary studies. Many evaluations reported findings from several types of OSCs without specifying which enablers or barriers may be specific to a particular model. Contextual factors are also essential to understanding the strengths and weaknesses of each model and can inform which model may be better fit in a specific setting.

One disadvantage of the OSC model is that it is often more costly to maintain than other models of integrated care for survivors. <sup>10</sup> <sup>11</sup> <sup>14</sup> OSCs require a dedicated staff, spaces and funding streams that may not be feasible in financially constrained and/or rural settings. <sup>10</sup> <sup>11</sup> <sup>13</sup> <sup>15</sup> <sup>-17</sup> <sup>28</sup> <sup>-30</sup> <sup>33</sup> <sup>35</sup> <sup>36</sup> <sup>45</sup> Other forms of integrated

approaches provide multidisciplinary care without these additional costs by integrating coordinated detection and referral into existing services. <sup>11</sup> Some have argued that it may be more realistic in resource-constrained settings to invest in integrated models of care for survivors that do not require a dedicated or specialised staff and structure, such as the sexual assault response team or the sexual assault nurse examiner approaches used in many Global North contexts. <sup>60</sup> Concern has also been raised that vertical investment in the OSC model may drive attention and efforts away from a broader health-system based response to violence against women. <sup>16</sup> Commentators have warned that OSCs may be a poor investment unless they are coupled to broader efforts of system strengthening. <sup>16</sup> <sup>60</sup>

The OSC model typically provides care for survivors of IPV and SV, however it may not take into account that specific forms of violence have differing needs. For example, non-partner rape more often requires immediate forensic evidence collection, while partner violence more often requires legal aid for civil matters such as divorce. Additionally, some OSC did not meet the needs of child and/or adolescent survivors of violence. Additionally some OSC did not the OSC cannot take a 'one size fits all' approach if it is to meet the specific and variable needs of all survivors violence.

The target population of the OSC model and more broadly, the majority of care delivery models for survivors of violence has historically been cis-gender women and has largely excluded LGBTQ (lesbian, gay, bisexual, transgender and queer) survivors. While LGBTQ communities face IPV and SV at alarmingly high rates, much of the IPV/SV response has largely failed to address inequities in care. <sup>61</sup> Many lesbian, bisexual, trans and gender non-conforming survivors may be excluded, discriminated and revictimised when seeking services for IPV/SV at centres like OSCs.

## Strengths and limitations of this review

It is possible some evaluations were excluded from this review that did not fit our inclusion criteria or the review's operational definition of the OSC. Our study was designed to identify health-system based OSCs and likely does not incorporate similar one-stop programming in the justice sector. The official definition of the OSC has been debated as OSCs vary considerably by region and context. Our search strategies were designed to minimise this weakness by strictly defining the review's operational definition and including as many variations of OSCs as the authors could locate in the literature. Six studies were excluded from this review because they were published in languages other than English, Spanish or French. Authors did not include studies published in Portuguese and may have missed findings of comprehensive service approaches in dedicates spaces in Brazil. Some of the evaluations included were unpublished reports, and 13 studies were found to be low quality. Some of the included studies failed to provide specific data on



study population, such as recruitment strategy. Methodological quality of each study is reflected in the CERQual assessments. Another potential limitation is that initial coding was performed by one author (RMO), however all resultant themes received input from all members of the research team.

There are multiple important strengths of this review. This review conducted an extensive and systematic search; it analyses data from 42 studies. The review uses the CERQual approach to assess the confidence in the review findings, which gives the review more credibility, reliability and transparency. The review also drew on the experience of multiple global experts in one stop centres who attended the 2018 WHO meeting on one stop centres.

#### CONCLUSION

The results of this study demonstrate that the OSC model has often failed to be implemented as designed due to a number of barriers with high-confidence evidence. Until these specific factors are addressed, the OSC model will be unable to achieve what it was designed to accomplish—to provide effective, multidisciplinary, coordinated and survivor-centred care to survivors of intimate partner and sexual violence. Prior to further promotion and scale-up of this model in LMICs, OSC leadership, funders, policymakers, government officials and staff should use the evidence in this review to prioritise and guide investment and to inform more rigorous evaluation of existing OSCs.

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