

# Participant and narrative characteristics associated with host community members sharing experiences of peacekeeper-perpetrated sexual exploitation and abuse in the Democratic Republic of Congo

Susan Andrea Bartels <sup>1</sup>, Sandrine Lusamba,<sup>2</sup> Sabine Lee<sup>3</sup>

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<sup>1</sup>Departments of Emergency Medicine and Public Health Sciences, Queen's University, Kingston, Ontario, Canada

<sup>2</sup>Solidarité Féminine Pour La Paix et le Développement Intégral, Beni, Democratic Republic of Congo

<sup>3</sup>Department of History, University of Birmingham, Birmingham, UK

## Correspondence to

Dr Susan Andrea Bartels;  
susanabartels@gmail.com

## ABSTRACT

**Introduction** Peacekeeper-perpetrated sexual exploitation and abuse (SEA) in the Democratic Republic of Congo (DRC) account for 36% of the global reports of formal SEA allegations to the UN between 2007 and 2021. However, formally reported SEA represents only a fraction of that which occurs, and community experiences of peacekeeper-perpetrated SEA are likely different than those reflected in official UN documents.

**Methods** Using mixed-methods, cross-sectional data collected in the DRC in 2018, we used descriptive analysis and multivariate Poisson regression with robust error estimates to examine the participant and narrative characteristics associated with sharing an experience about peacekeeper-perpetrated SEA.

**Results** Participants in Bukavu (adjusted relative risk (aRR) 0.85, 95% CI 0.79 to 0.91) and Kalemie (aRR 0.75, 95% CI 0.69 to 0.81) were *less* likely to share narratives about sexual interactions, while civilian UN personnel (aRR 1.16, 95% CI 1.00 to 1.34) were slightly *more* likely to be implicated in narratives about sexual interactions. Narratives in which the outcome was deemed fair to the woman/girl were *more* likely to be about sexual interactions (aRR 1.07, 95% CI 1.02 to 1.12). Both the regression analysis and the participants' interpretation of the shared narratives illustrated the significant role poverty played in SEA, suggesting that the outcomes of sexual interactions may have been deemed fair since affected women/girls were perceived to have benefited financially/materially.

**Conclusion** There is significant variation between host communities in the likelihood of sharing narratives about SEA, which could prove useful for informing more targeted SEA prevention initiatives. Narratives about sexual interactions with UN personnel were more often deemed to have fair outcomes for the affected women/girls, likely related to ongoing poverty in host communities and perceived financial/material gain. These findings highlight how extreme poverty may impact perceptions around informed consent as well as fairness and require further study. Perceptions around fair outcomes would disincentivise formal reporting, which needs to be considered when devising community-based complaint networks.

## Key questions

### What is already known?

- Despite endemic underreporting, the Democratic Republic of Congo has had high levels of peacekeeper-perpetrated sexual exploitation and abuse (SEA), recording over a third of all formal SEA allegations across all peace support operations.
- Despite a policy of zero tolerance for SEA and strong discouragement of all sexual relations between UN peacekeepers and local communities, SEA is endemic and thus the effectiveness of the zero-tolerance policy is questionable.
- While host populations often envisage sexual relations with UN peacekeepers as a way out of poverty, such relations often exacerbate the cycle of poverty, especially where children are conceived.

### What are the new findings?

- Narratives about poverty were more likely to be about SEA, indicating that poverty is an indicator of the host population's vulnerability to SEA.
- Given the central role of poverty, material/financial gain helps to explain why the outcomes were more likely to be perceived to be fair to the woman/girl when sexual interactions were involved.
- Host community perceptions about agency and fairness are nuanced and are not congruent with all assumptions on which the UN's zero-tolerance policy is based, which may impact enforcement of the policy and SEA reporting by affected community members.

## INTRODUCTION

### Armed conflict and sexual violence in the Democratic Republic of Congo

The Democratic Republic of Congo (DRC) has experienced decades of armed conflict, insecurity and forced displacement, particularly in its eastern regions.<sup>1</sup> Despite some improvements in the security situation in the last two decades following the 1999 signing of the Lusaka peace accord with neighbouring

## Key questions

## What do the new findings imply?

- ▶ Empirical evidence of nuanced local perceptions related to peacekeeper-perpetrated SEA could influence updated and revised UN policies around the prevention of SEA.
- ▶ A better understanding of local populations' reasons for engaging sexually with peacekeepers and perceptions of fairness could inform more effective peacekeeper SEA-prevention training, reporting mechanisms, and more survivor-centred investigation and support programmes.

countries, violence remained endemic, and sexual and gender-based violence has persisted at very high levels.<sup>2</sup> The ongoing insecurity is a strong driver of displacement of approximately 4.5 million people within DRC and another estimated 800 000 Congolese refugees who have migrated to other countries.<sup>3</sup>

Conflict and displacement in DRC have been characterised by pervasive and extreme forms of sexual violence often used as a strategic weapon of war.<sup>4–9</sup> Using population-based data, a 2011 study estimated that up to 1.8 million women in the DRC had experienced lifetime rape, and up to 3.37 million women had experienced intimate partner sexual violence; the study also evidenced stark regional variation and all types of sexual violence, with such violence more common in the volatile eastern region of North Kivu in comparison with the western capital of Kinshasa.<sup>2</sup>

### Peace support operations in DRC

DRC has hosted a peace support operation (PSO) since 1999. The original PSO, Mission de l'Organisation des Nations Unies en République Démocratique du Congo—known by its acronym MONUC—was tasked primarily with the support of the Lusaka Ceasefire Accord. MONUC was one of the largest PSOs ever deployed with approximately 20 000 uniformed personnel at its peak<sup>10</sup>; yet, it was also widely criticised for being ineffective with respect to protecting civilians.<sup>1</sup> In May 2010, following the assignment of a range of additional peace support tasks, the mission transitioned to Mission de l'Organisation des Nations Unies pour la Stabilisation en République Démocratique du Congo (MONUSCO) with an extended mandate to support stabilisation and consolidation of peace and to protect civilians.<sup>11</sup> One of the most extensive and expensive PSOs in history, MONUSCO currently consists of almost 17 500 actively deployed personnel.<sup>12</sup>

### Sexual exploitation and abuse by UN personnel

Sexual exploitation and abuse (SEA) by peacekeepers in DRC was first reported in 2004.<sup>13</sup> A majority of allegations involved sex with underage minors<sup>14</sup> and some reports included UN employees videotaping themselves torturing and sexually abusing girls.<sup>15</sup> Among the reports of SEA, transactional sex also featured prominently with stories of women and girls engaging sexually with peacekeepers in exchange for food or money.<sup>16</sup> This is in gross

violation of the UN's 'zero tolerance' policy which outlaws any exploitative or abusive behaviour on the part of UN personnel. Given the inherent high exploitative potential as a result of the socioeconomic and other power differentials between peacekeepers and local women, sexual interactions between those groups are prohibited in almost all cases.<sup>17</sup>

Despite the UN's 'zero tolerance' policy, peacekeeper-perpetrated SEA continues in the DRC and beyond. The UN now publicly releases data on SEA allegations and among the 32 publicly identified missions with SEA complaints, MONUC and MONUSCO collectively have recorded 388 allegations between 2007 and 2021, contributing 36% of the total SEA reports in that timeframe.

### Objective

There are significant concerns about peacekeeper-perpetrated SEA in the DRC and it is important to recognise that allegations formally reported to the UN likely represent only a fraction of those that actually occur.<sup>18</sup> Communities that host PSOs quite possibly have a different perspective of peacekeeper-perpetrated SEA than that reflected in official UN documents. This study aims to explore the link between those in the PSO host communities most likely to share experiences about peacekeeper-perpetrated SEA and their evaluations of the meaning of those experiences. In order to understand better the local perceptions of the interactions of women in host communities and peacekeepers, we therefore conducted the current analysis with the following two objectives: (1) to determine which participants were more likely to share a narrative about sexual interactions between UN peacekeepers and host community members; (2) to identify which narrative characteristics were associated with sharing a narrative describing sexual interactions between local civilians and UN personnel.

### METHODS

This cross-sectional, mixed qualitative–quantitative study was conducted across six locations in the DRC between May and July 2018. We choose a mixed-methods approach to collect richer and more comprehensive data and to give a voice to study participants, ensuring that findings were grounded in participants' experiences.<sup>19</sup> We used a convergence model triangulation design as described by Creswell and Plano Clark,<sup>20</sup> in which the quantitative and qualitative data were collected concurrently and were assigned equal weighting in the analysis. We believe this approach offered the advantage of being able to corroborate the quantitative findings with the more nuanced qualitative results, ensuring that the research generated better substantiated conclusions.

### Location and participant selection

Six UN bases in eastern DRC were purposively selected based on available data regarding the sizes, troop and police contributing country staffing, years of operation and geographical variation to represent the north and

south as well as urban and rural regions. Within a 30 km perimeter of each UN base, a convenience sample of prospective participants were approached in public locations such as market areas, street vendors, shops and public transportation stops/depos. Individuals had to be 13 years of age or older to participate.

### SenseMaker survey

SenseMaker is a narrative capture tool that extracts meaning from micro-narratives shared by participants on a topic of interest (in this case interactions between Congolese women/girls and MONUSCO personnel). The SenseMaker application does this by empowering participants to interpret their experiences by responding to interpretation questions, which extracts participants' own understanding or perspectives in a quantifiable manner.<sup>21</sup> Participants were asked to audio record a short narrative (referred to here as a 'micro-narrative' since they are often brief with audio recordings of 2–3 min on average) in response to one of three prompting questions: *a. Think of a woman or girl who lives near this UN base. Share a specific story that illustrates the best or worst thing for her because of living near the base; b. Think of a woman or girl who has interacted with UN personnel in your community. Share a specific example of a positive or negative experience that she has had as a result of her interaction with a UN personnel; or c. Think of a woman or girl in this community. Tell a story about how the presence of UN workers has helped or harmed her.* For the purpose of this work, 'shared experience' or 'shared micro-narrative' refers to this brief story audio recorded by participants in response to the open-ended prompting question. Participants then interpreted the shared experiences by responding to a series of pre-defined questions, plotting their perspectives between two (dyads) or three (triads) possible options (online supplemental appendix 1). Multiple-choice questions asked demographic information and helped to contextualise the shared story (eg, who was the story about?). The SenseMaker survey did not prompt for narratives about sexual relations and instead allowed experiences to emerge more naturally. The prompts were open-ended by design and were intended to trigger recollection of a local woman or girl's experience interacting with foreign UN peacekeepers. The full survey is provided in online supplemental appendix 2.

The SenseMaker survey was written in English, translated to Lingala and Swahili and then back translated by an independent translator to check for accuracy. The survey was pilot tested in the DRC among 24 participants and the questions were refined accordingly.

### Local partners

This research was implemented in collaboration with two local organisations. Solidarité Féminine Pour la Paix et le Développement Intégral (SOFEPADI) is a Congolese non-governmental organisation that advocates for equal access to social justice for women and girls. SOFEPADI was instrumental in informing the cultural aspects of the

research design and survey development. Multidisciplinary Association for Research and Advocacy in the Kivus by United Junior Academics (Marakuja) is a non-profit organisation of Congolese researchers with extensive experience implementing large-scale research projects in the DRC since 2009.

### Data collection

A team of 12 research assistants (RAs) from Marakuja and SOFEPADI conducted all interviews. The female SOFEPADI RAs had extensive experience working with survivors of sexual and gender-based violence. All RAs completed a 5-day training immediately prior to data collection. Training topics included SenseMaker methodology, research ethics, a detailed question-by-question review of the survey, data upload, as well as management of adverse events and programme referrals.

All interviews were conducted in either Lingala or Swahili. Shared micro-narratives were audio recorded and then interpretation questions were answered by the participant on a study tablet. Participants could share more than one micro-narrative if they chose and thus the total number of micro-narratives exceeds the number of unique participants. All data were collected on iPad Mini 4's using the SenseMaker application and data were uploaded to the secure Cognitive Edge server. Recorded micro-narratives were transcribed and then translated from Lingala/Swahili to English by native Lingala/Swahili speakers respectively.

### Analysis

SenseMaker data were exported to Tableau (V.2020.4) where collective plots (with all participants responses on the same figure) were analysed visually to identify data patterns such as clusters of responses in one extreme or another, outliers, and so on.<sup>21</sup> Triad and dyad data were disaggregated based on whether the shared micro-narrative was about or not about sexual relations since sexual interactions between UN peacekeepers and host community women/girls was the a priori topic of interest. Triad and dyad questions where, based on visual inspection, the pattern of responses appeared to differ between micro-narratives about sexual relations and micro-narratives not about sexual relation (responses clustered in different areas for example) were selected for statistical analysis. For the dyad data, graphically represented as histograms, SPSS (IBM SPSS Statistics V.26.0.0.0) was used to analyse the collective areas under the bars for each subgroup with the Kruskal-Wallis H test and  $\chi^2$  tests to determine if the bar areas were statistically different between groups.<sup>22 23</sup> Post hoc analysis with Dunn's test identified which sub-groups differed from others. Dyad distribution of responses are presented as violin plots to illustrate the different response patterns, with an asterisk indicating the overall mean for each sub-group. For the triad data, R Scripts (R V.3.4.0) was used to generate geometric means for each subgroup. R Scripts was also used to generate 95% CIs, which are



presented as confidence ellipses around the geometric means.<sup>24 25</sup> Geometric means were deemed statistically different if their 95% confidence ellipses did not overlap with others.

Descriptive statistics were conducted in SPSS (IBM SPSS Statistics V.26.0.0.0) using  $\chi^2$  tests to identify differences between subgroups. Multivariate Poisson regression with robust error estimates<sup>26</sup> was used to examine which participant and micro-narrative characteristics predicted whether a micro-narrative was about sexual interactions between UN personnel and host community members. The analysis controlled for participant age/marital status/level of education, household income, location, who the micro-narrative was about, fairness of outcome, feelings, emotional tone, role of UN personnel in the micro-narrative and whether the micro-narrative was about poverty. For all analyses, p values <0.05 were taken to be statistically significant.

After patterns of perspectives were identified in the quantitative data, accompanying narratives were reviewed to facilitate interpretation of the statistical findings. A series of representative quotes were then chosen for inclusion to illustrate the main quantitative results.

### Ethics considerations

After reviewing the informed consent in Lingala/Swahili, respondents indicated their willingness to participate by tapping a consent box on the tablet. No identifying information was collected, and all interviews were conducted privately. No financial compensation or other incentive was offered for participation. Individuals as young as age 13 were included as previous evidence suggested that they are often specifically targeted for SEA by peacekeepers and aid workers.<sup>27</sup> On that basis, it was deemed unethical to not include their experiences and perspectives. Parental consent was not sought given that the survey was open-ended and did not ask direct questions about sexual interactions. This is consistent with recent guidelines which suggest that asking parental consent can introduce bias and create conflict between adolescents and parents.<sup>28</sup> No participants dropped out of the study due to distress. Emotional support was provided if needed at the time of the interview and any participant who was thought to require counselling or follow-up services was referred to SOFEPADI. Each team had a SOFEPADI representative who had the training and experience to provide on-site support if needed.

### Public involvement

Based on years of experience working closely with survivors of SEA, SOFEPADI helped to develop the survey and represented survivors' collective interests in the research's design and implementation. Some early results were presented back to SEA survivors in focus group discussions in March 2020, with a plan to continue this engagement once COVID-19 restrictions ease.

### RESULTS

A total of 2856 self-interpreted micro-narratives about interactions between MONUSCO peacekeepers and local women/girls were collected from 2499 unique participants. Participant demographics and micro-narrative characteristics are provided in [tables 1 and 2](#), respectively, disaggregated by whether the micro-narrative was about sexual interactions.

There was a slight preponderance of female participants (52.3%), most participants were aged 18 to 34 (69.1%) and the sample was relatively educated, with 44% having at least some secondary education and 29.6% having post-secondary education/technical training ([table 1](#)). Micro-narratives about sexual interactions differed from those not about sexual interactions with regards to age, marital status and education level for the participant, household income, and location.

As demonstrated in [table 2](#), a majority of the micro-narratives were shared about a non-family member (54.9%) and were attributed negative emotions (61.6%). Almost half of participants indicated that the outcome of the interaction was not fair to the woman/girl involved (48.1%). Micro-narratives about sexual interactions differed from those not about sexual interactions based on the protagonist in the narrative (ie, who the story was about) and feelings about the narrative (positive, negative or mixed). There was also a statistically significant difference between micro-narratives about or not about sexual interactions with respect to the role of the UN personnel involved (soldier, civilian, aid worker, police or other). Finally, whether the outcome was perceived to be fair to the woman/girl in the shared experience differed based on whether the micro-narrative was about sexual interactions. From a research perspective, the concept of fairness was broadly intended to capture opinions about power differentials between UN personnel and host community women/girls, in addition to perspectives about who benefits from these interactions. However, as is intentional with a 'SenseMaking' approach, fairness was not defined in the survey and instead it was left open for individual participants to interpret.

Multivariate Poisson regression with robust error estimates identified the participant and narrative characteristics associated with sharing a story about sexual interactions ([table 3](#)). Married participants were *less* likely to share a narrative about sexual interactions (adjusted relative risk (aRR) 0.87, 95% CI 0.81 to 0.94) as were participants in Bukavu (aRR 0.85, 95% CI 0.79 to 0.91) and Kalemie (aRR 0.75, 95% CI 0.69 to 0.81). First-person narratives were *less* likely to be about sexual interactions (aRR 0.82, 95% CI 0.73 to 0.92) while narratives shared about an individual known to the participant (aRR 1.14, 95% CI 1.05 to 1.25) were *more* likely to be about sexual interactions.

Narratives in which outcomes were deemed fair to the woman/girl were *more* likely to be about sexual interactions (aRR 1.07, 95% CI 1.02 to 1.12). Examination of the accompanying narratives revealed that this finding was

**Table 1** Study population characteristics disaggregated by whether micro-narratives were about sexual relations

	Total (% of N=2856)		About sexual relations (% of N=2078)		Not about sexual relations (% of N=778)		P value*
<b>Participant's sex</b>							
Female	1495	52.3	1074	51.7	421	54.1	0.252
Male	1360	47.6	1003	48.3	357	45.9	
Prefer not to say	1	0.0	1	0.0	0	0.0	
Total	2856		2078		778		
<b>Participant's age</b>							
13–17	222	7.8	162	7.8	60	7.7	<b>0.004</b>
18–24	996	34.9	751	36.1	245	31.5	
25–34	977	34.2	723	34.8	254	32.6	
35–44	421	14.7	281	13.5	140	18.0	
45 and older	228	8.0	153	7.4	75	9.6	
Prefer not to say	12	0.4	8	0.4	4	0.5	
Total	2856		2078		778		
<b>Participant's marital status</b>							
Single/never married	1382	48.4	1099	52.9	283	36.4	<b>&lt;0.001</b>
Married/living with partner	1247	43.7	802	38.6	445	57.2	
Divorced/separated/widowed	222	7.8	172	8.3	50	6.4	
Prefer not to say	5	0.2	5	0.2	0	0.0	
Total	2856		2078		778		
<b>Participant's level of formal education</b>							
None	200	7.0	138	6.6	62	8.0	<b>&lt;0.001</b>
Primary school	540	18.9	387	18.6	153	19.7	
Secondary school	1257	44.0	862	41.5	395	50.8	
University/technical training	844	29.6	678	32.6	166	21.3	
Other/prefer not to say	15	0.5	13	0.6	2	0.3	
Total	2856		2078		778		
<b>Participant's household income level</b>							
Poor	822	28.8	558	26.9	264	33.9	<b>&lt;0.001</b>
Average	1358	47.5	968	46.6	390	50.1	
Well-off	676	23.7	552	26.6	124	15.9	
Total	2856		2078		778		
<b>Area collected</b>							
Kisangani	563	19.7	496	23.9	67	8.6	<b>&lt;0.001</b>
Bunia	538	18.8	448	21.6	90	11.6	
Goma	511	17.9	404	19.4	107	13.8	
Kalemie	500	17.5	205	9.9	295	37.9	
Bukavu	492	17.2	315	15.2	177	22.8	
Beni	252	8.8	210	10.1	42	5.4	
Total	2856		2078		778		

\*Pearson  $\chi^2$ . Analyses excluded the following sub-categories: *Prefer not to say, Not sure, Don't know, Missing*.

explained primarily through financial or material gain on behalf of the woman/girl and/or her family as a result of the sexual interactions. The following quote is a typical example from the micro-narrative data and is included to highlight the intersection between perceived fairness

and financial/material gain as a result of transactional sex or sex work with UN peacekeeping personnel:

We had a habit of going to the MONUSCO camp at MUBAMBIRO when we were still prostitutes. We specifically

**Table 2** Micro-narrative characteristics disaggregated by whether the micro-narratives were about sexual relations

	Total (% of N=2856)		About sexual relations (% of N=2078)		Not about sexual relations (% of N=778)		P value*
<b>Who the micro-narrative was about</b>							
Me	489	17.1	229	11.0	260	33.4	<0.001
Family member	447	15.7	337	16.2	110	14.1	
Someone else I know	1567	54.9	1347	64.8	220	28.3	
Someone I heard	342	12.0	162	7.8	180	23.1	
Prefer not to say	11	0.4	3	0.1	8	1.0	
Total	2856		2078		778		
<b>Outcome fair to woman/girl</b>							
Unfair	1374	48.1	1110	53.4	264	33.9	<0.001
Neutral	60	2.1	36	1.7	24	3.1	
Fair	1254	43.9	874	42.1	380	48.8	
Not sure	168	5.9	58	2.8	110	14.1	
Total	2856		2078		778		
<b>Feelings about the micro-narrative†</b>							
Positive	770	27.0	392	18.9	378	48.6	<0.001
Negative	1760	61.6	1408	67.8	352	45.2	
Mixed feelings	117	4.1	90	4.3	27	3.5	
Missing data	209	7.3	188	9.0	21	2.7	
Total	2856		2078		778		
<b>Role of UN personnel</b>							
Armed/unarmed soldier	1978	69.3	1467	70.6	511	65.7	<0.001
Civilian	439	15.4	339	16.3	100	12.9	
Worked for NGO	38	1.3	23	1.1	15	1.9	
UN police	49	1.7	43	2.1	6	0.8	
Other	130	4.6	54	2.6	76	9.8	
Don't know	222	7.8	152	7.3	70	9.0	
Total	2856		2078		778		
<b>Nationality of UN personnel‡</b>							
Sub-Saharan Africa	1124	39.4	890	42.8	234	30.1	0.180
Not from sub-Saharan Africa	835	29.2	640	30.8	195	25.1	
Missing data§	897	31.4	548	26.4	349	44.9	
Total	2856		2078		778		
<b>Micro-narrative about poverty</b>							
Not about poverty	1447	50.6	1129	54.3	318	40.9	<0.001
About poverty	790	27.7	685	33.0	105	13.5	
Missing	619	21.7	264	12.7	355	45.6	
Total	2856		2078		778		
<b>Story prompt</b>							

Continued

Table 2 Continued

	Total (% of N=2856)		About sexual relations (% of N=2078)		Not about sexual relations (% of N=778)		P value*
Best or worse experience near UN base	784	27.5	672	32.3	112	14.4	<0.001
Positive or negative interactions with UN	1181	41.4	1083	52.1	98	12.6	
UN presence helped or harmed	891	31.2	323	15.5	568	73.0	
Total	2856		2078		778		

\*Pearson  $\chi^2$ . Analyses excluded the following sub-categories: *Prefer not to say, Not sure, Don't know, Missing*.

†**Positive:** Encouraged, Good, Happy, Hopeful, Relieved, Satisfied. **Negative:** Afraid, Angry, Disappointed, Embarrassed, Frustrated, Sad, Worried.

‡**Sub-Saharan Africa:** DRC, Ghana, Senegal, Sierra Leone, South Africa, Tanzania. **Not from sub-Saharan Africa:** Bangladesh, Egypt, India, Morocco, Nepal, Pakistan, Uruguay.

§Includes data from the 'Other' category in dataset. This category contains both sub-Saharan and non-sub-Saharan countries.

had to go there every day to have sex with men in exchange for money because we are from poor families. Since poverty was very extreme, parents were dying. Then, we could go to MONUSCO for that.

Unmarried female in Goma, aged 18–24, who reported that the outcome was somewhat fair to the woman/girl [ID438]

In contrast, other participants believed strongly that the outcomes of sexual interactions with UN personnel were completely unfair as per the example in figure 1. The quote in figure 1 is also representative of the data overall and is included to bring forth the perspective that when children were conceived from the sexual interactions and later abandoned by the peacekeeper fathers, the outcomes were often deemed more unfair by participants. In these instances, the responsibility (financial and otherwise) to raise the children was left with the mother, who often struggled to meet those obligations.

Narratives attributed all positive feelings were *less* likely to be about sexual interactions (aRR 0.88, 95% CI 0.80 to 0.96). The following quote is a representative example of transactional sex between girls and UN soldiers who solicited sex in exchange for small amounts of money, with a resulting pregnancy for one of the girls. This micro-narrative is included to illustrate how schoolgirls engaged sexually with soldiers stationed at a base near their school.

As we are studying in the vicinity of MONUSCO base, those soldiers used to call girls telling them, "JIGI JIGI, one dollar" which means if a girl accepts to have intimate relations with them, they gave her 1 or 10 dollars. Unfortunately, three girlfriends of mine who were studying at a school in the vicinity of that base were going out with MONUSCO soldiers, among whom one girl was made pregnant. She gave birth to a child without nationality or father, but she knows that the father of her child was a MONUSCO soldier from Bangladesh.

Unmarried male in Bunia, aged 25–34, who reported that this experience with Bangladeshi soldiers made him feel angry [ID2855]

Narratives that were about poverty were *more* likely to be about sexual interactions (aRR 1.08, 95% CI 1.04 to 1.12) as were narratives that were about civilian UN personnel (aRR 1.16, 95% CI 1.00 to 1.34).

To triangulate these quantitative findings with the SenseMaker data, in which participants interpreted the experiences shared in their narratives, we also analysed the triad that considered poverty as a possible response. For example, in the triad shown in figure 1, participants were asked what their narratives were about. Each small grey dot represents an individual participant's response. The larger red and green dots represent geometric means for the 'about sexual interactions' and 'not about sexual interactions' subgroups, respectively. Also, 95% CIs are provided for each geometric mean and are presented graphically as confidence ellipses. If the confidence ellipses for two subgroups do not overlap, participants in those subgroups responded in a statistically different way on that particular question. In the triad illustrated in figure 1, micro-narratives about sexual interaction were statistically more likely to be interpreted as being about poverty. An illustrative quote is provided with the accompanying triad response highlighted, providing an example of how perceptions around fairness were linked to poverty and raising peacekeeper-fathered children.

Figure 2 provides an example of a dyad that asked participants who had initiated the interaction described in the shared micro-narrative. The shape of each figure for the about sexual interaction and not about sexual interactions subgroups illustrates the distribution of participants' responses. The data demonstrate that participants were more likely to report that the peacekeeping personnel was the initiator when the interaction was sexual in nature as shown by the wide base to the left of the top figure in red. The mean response for

**Table 3** Multivariate Poisson regression\* to identify participant and narrative characteristics associated with sharing a story about sexual interactions

	aRR†	95% CI	P value
<b>Participants's age</b>			
13 to 17	1.01	(0.91 to 1.14)	0.804
18 to 24	0.99	(0.89 to 1.09)	0.785
25 to 34	1.05	(0.96 to 1.16)	0.296
35 to 44	1.06	(0.96 to 1.18)	0.246
45 and older	1.00		
<b>Participant's marital status</b>			
Single/never married	0.99	(0.92 to 1.07)	0.819
Married/living with partner	<b>0.87</b>	<b>(0.81 to 0.94)</b>	<b>0.001</b>
Divorced/separated/widowed	1.00		
<b>Participant's level of education</b>			
None	0.94	(0.85 to 1.04)	0.208
Primary school	1.05	(0.98 to 1.13)	0.163
Secondary school	1.00	(0.95 to 1.05)	0.963
University/technical training	1.00		
<b>Participant's household income level</b>			
Poor	0.95	(0.89 to 1.01)	0.114
Average	0.98	(0.93 to 1.03)	0.489
Well-off	1.00		
<b>Location</b>			
Beni	1.00	(0.93 to 1.06)	0.883
Bukavu	<b>0.85</b>	<b>(0.79 to 0.91)</b>	<b>&lt;0.001</b>
Bunia	0.98	(0.92 to 1.05)	0.593
Goma	1.02	(0.94 to 1.09)	0.672
Kalemie	<b>0.75</b>	<b>(0.69 to 0.81)</b>	<b>&lt;0.001</b>
Kisangani	1.00		
<b>Who micro-narrative was about</b>			
Me	<b>0.82</b>	<b>(0.73 to 0.92)</b>	<b>0.001</b>
Family member	1.05	(0.96 to 1.16)	0.300
Someone else I know	<b>1.14</b>	<b>(1.05 to 1.25)</b>	<b>0.002</b>
Someone I heard	1.00		
<b>Micro-narrative emotional tone</b>			
Positive	<b>0.92</b>	<b>(0.87 to 0.98)</b>	<b>0.007</b>
Negative	1.00		
<b>Outcome fair to woman/girl</b>			
Fair	<b>1.07</b>	<b>(1.02 to 1.12)</b>	<b>0.003</b>
Neutral	1.05	(0.86 to 1.28)	0.628
Unfair	1.00		
<b>Feelings about the micro-narrative</b>			
Positive	<b>0.88</b>	<b>(0.80 to 0.96)</b>	<b>0.006</b>
Negative	0.98	(0.91 to 1.06)	0.567
Mixed	1.00		
<b>Role of UN personnel</b>			
Armed/unarmed soldier	1.14	(1.00 to 1.30)	0.056

Continued



**Table 3** Continued

	aRR†	95% CI	P value
Civilian	<b>1.16</b>	<b>(1.00 to 1.34)</b>	<b>0.049</b>
UN Police	1.19	(0.99 to 1.44)	0.059
Worked for NGO	1.15	(0.91 to 1.44)	0.245
Other	1.00		
Poverty			
About poverty	<b>1.08</b>	<b>(1.04 to 1.12)</b>	<b>&lt;0.001</b>
Not about poverty	1.00		
Story prompt			
Experience of females near UN base	<b>1.69</b>	<b>(1.55 to 1.85)</b>	<b>&lt;0.001</b>
Experience of females interacted with UN personnel	<b>1.76</b>	<b>(1.61 to 1.92)</b>	<b>&lt;0.001</b>
UN presence help or harm females	1.00		

\*Variables were included if  $p < 0.1$  in demographic and story characteristics tables.  $N = 1781$ .

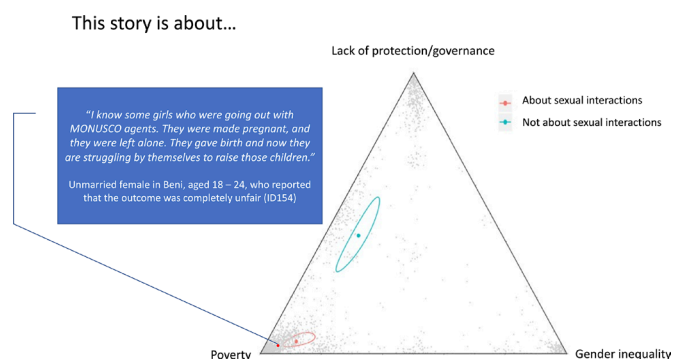
†aRR, adjusted relative risk with all other variables in the table controlled for.

each subgroup is highlighted with an asterisk, which also demonstrated that UN personnel were more likely to have initiated the interactions when they were sexual in nature ( $p < 0.001$ ). In the included quote, a 15-year-old girl had been raped by a peacekeeper. While rape was mentioned in our dataset, it was far less frequent than transactional sex and sex work. When rape did occur, it was often opportunistic on the part of the perpetrator and in the context of a girl or young woman encountering a peacekeeper in the community. We include this narrative to recognise that while much of the SEA described was more exploitative in nature, sexual violence and abuse also occurred.

## DISCUSSION

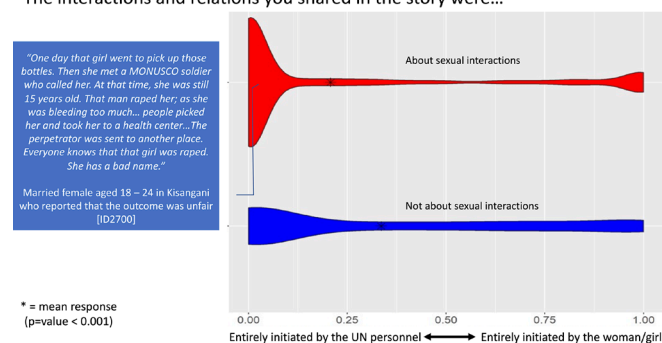
Using mixed-methods data from six eastern DRC communities that host MONUSCO peacekeeping personnel, we present data to better understand which factors were predictive of sharing a narrative about sexual interactions. To the best of our knowledge, this is the largest

mixed-methods study to examine UN personnel-perpetrated SEA. Participants in Bukavu and Kalemie, in South Kivu and Tanganyika Provinces, respectively, were *less* likely to share a narrative about sexual interactions, as were married participants, at all six locations. UN civilian personnel were *more* likely to be implicated in narratives about sexual interactions. Unexpectedly, narratives in which the outcome was deemed fair by the participant were *more* likely to be about sexual interactions. This finding appeared to be related to financial gain and was supported by both the regression analysis as well as the triad data, which illustrated the significant role that poverty contributed to sexual interactions between UN personnel and host community women/girls. Finally, participants sharing narratives about sexual interactions were more likely to indicate that the shared experience



**Figure 1** Each small grey dot represents an individual participant's response. The red and green dots represent geometric means for the 'about sexual interactions' and 'not about sexual interactions' subgroups, respectively, each with a surrounding 95% confidence ellipse. An illustrative quote is provided with the accompanying triad response highlighted.

The interactions and relations you shared in the story were...



**Figure 2** Dyad asking who had initiated the interaction described in the micro-narrative shared by the participant. Plots of responses along the spectrum of interaction 'entirely initiated by the UN personnel' versus 'entirely initiated by the woman/girl' disaggregated by whether the story was about sexual interactions or not, with an illustrative quote. Asterisks indicate the overall mean for each sub-group and highlight that peacekeepers were more likely to initiate interactions that were sexual in nature.

was positive and that interaction was entirely initiated by the UN personnel.

Earlier research has also examined predictors of sexual interactions between UN peacekeeping personnel and host community members. Using the UN's own publicly available data between 1999 and 2010, Nordås and Rustad identified several mission-level factors predictive of SEA allegations including PSO mandates that were more humanitarian in nature and more focused on gender equality, higher violence levels within the armed conflict and larger mission size.<sup>29</sup> Host-country factors positively associated with SEA allegations against UN personnel included high levels of sexual violence before the conflict, absence of spousal rape law and low GDP per capita.<sup>29</sup> Neudorfer found similar results, reporting high levels of sexual violence in host country were positively and significantly correlated with the number of SEA allegations against peacekeepers.<sup>16</sup> She also reported that poor supervision of peacekeepers was associated with SEA allegations, while introduction of reporting and investigation mechanisms and host community education and empowerment reduced reports of SEA.<sup>16</sup> Furthermore, in his analysis of PSO data from 2007 to 2014, Moncrief similarly found that higher host-country GDP per capita was significantly associated with fewer SEA allegations.<sup>30</sup> Moncrief also reported that larger mission size and disciplinary erosion (using reported non-SEA misconduct as a proxy) were positively associated with a higher number of SEA allegations.<sup>30</sup>

Unlike the aforementioned studies which used publicly available UN data, research among host community members in Haiti (similar approach to that taken here) documented that individuals living in rural areas were more likely to share a narrative about sexual misconduct by UN personnel in comparison with those living in more urban areas.<sup>31</sup> The current findings contradict those in Haiti since participants in the smallest and most remote of the interview locations, Kalemie, were *less* likely to share a narrative about sexual interactions. Participants in Bukavu were similarly *less* likely to share a narrative about sexual interactions with UN personnel although it is a large metropolitan area and so population/rurality do not explain these results. In addition, other previously identified host community predictors of sexual misconduct (ie, spousal rape laws, low GDP per capita and high pre-existing levels of sexual violence) are not known, to the best of our knowledge, to be different in Bukavu and Kalemie than in the other four locations included in the study. Therefore, in DRC, urban/rural differences do not appear to be a reliable predictor of where narratives about peacekeeper-perpetrated SEA were shared.

What does seem to be more consistent across PSOs and locations is that underlying poverty and lack of socioeconomic empowerment for host community women/girls is a key driver of sexual interactions with UN peacekeeping personnel. In this regard, our results are well aligned with earlier research in Haiti,<sup>32–35</sup> Liberia,<sup>36–37</sup> Sierra Leone and DRC.<sup>38</sup> With a GDP per capita of US\$580.7,<sup>39</sup> DRC

is a low-income country with 77% of its population living below the poverty line of US\$1.90/day.<sup>40</sup> In this context, peacekeeping personnel are comparatively wealthy. In fact, it has been estimated that foreign peacekeepers earn 500–1000 times the average local salary,<sup>41</sup> and this may be even more true for eastern DRC which continues to face ongoing instability. This significant wage differential influences the local economy, and given that peacekeepers are predominantly male, it does so in a gendered way, often increasing the likelihood of coercion, transactional sex and sex work.<sup>41</sup> However, it was unexpected that narratives in which the outcome was deemed fair to the woman/girl would be *more* likely to be about sexual interactions with peacekeepers. Given the central role of host community poverty in initiating and perpetuating sexual misconduct by UN troops, we hypothesise that the outcomes of sexual interactions may have been deemed fair since it was perceived by participants that the woman/girl benefited financially or materially from the interaction. Since the current research was not designed to address perceptions around exploitation and fairness, we could not explore this phenomenon further and recommend this as an area for future research.

These findings lead to several policy and programming recommendations. First, within PSOs it may be feasible to identify predictors of sexual misconduct to inform more targeted prevention of sexual exploitation and abuse (PSEA) initiatives. For instance, we have identified areas in eastern DRC with higher community reports of SEA and these could be targeted for increased training as well as closer surveillance around non-fraternisation policies. Furthermore, since the data highlight that civilian UN personnel were more likely to be implicated in narratives about sexual interactions, additional focused PSEA activities that are specific to civilians in the community in addition to enhanced PSEA strategies such as close monitoring of designated 'out-of-bounds' areas, and enforced patrols, could be considered. The second recommendation relates to reporting peacekeeper-perpetrated SEA. Since narratives involving sexual interactions with UN personnel were often deemed to have fair outcomes for the woman/girl, this may help to explain the gross under-reporting of peacekeeper-perpetrated SEA in DRC. Great effort has been made by the UN to improve reporting through the development of community-based complaint networks (CBCNs).<sup>42</sup> However, if affected women/girls are already perceived to have a fair outcome, this will likely disincentivise reporting to the UN, both by affected women/girls as well as by community members since there is likely a diminished sense of wrongdoing. Presumably, to broadly improve rates of formal SEA reporting, there must be some perceived benefit to doing so. However, with lengthy and complex investigations and a culture of impunity within which most SEA allegations fail to lead to reparations or justice,<sup>43–44</sup> the perceived reporting benefit may be lacking for many host community members. Therefore, our second recommendation is that the UN should take these findings around

perceived fairness into account when planning CBCNs, streamlining investigations and implementing survivor-centred support pathways. Alternate approaches may be needed given the limitations noted above for the current policies.

### Limitations and strengths

The study has several notable limitations. First, despite attempts to collect narratives from a wide range of participants, the convenience sample was not representative and thus the results cannot be generalised. In addition, data regarding the exact numbers, locations, sizes and staffing of UN bases were quite limited and consequently, although we attempted to include a diverse sample of bases, we cannot confirm to what degree this was successful. Whether particular regions had higher or lower prevalences of peacekeeper-perpetrated SEA remains unknown as the data are not available. Second, recognising our positionality we are cognisant that as non-Congolese academics, the results are interpreted with our own inherent biases. While this article did not permit an opportunity to comprehensively present the qualitative data, more in-depth qualitative analysis is forthcoming in other publications. The research also has a number of noteworthy strengths including a relatively large sample size with 2865 self-interpreted narratives providing a wide range of perspectives from Congolese host community members. In addition, the lack of direct questioning about sexual interactions allowed narratives to emerge from the broader landscape of experiences and reduced social desirability bias while the opportunity for participants to interpret their own shared narratives reduced interpretation bias and may have revealed nuanced insights that would not have otherwise been identified.

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Parental consent was not obtained as it was believed that involving parents could have introduced bias and potentially parental conflict and/or abuse.

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### ORCID iD

Susan Andrea Bartels <http://orcid.org/0000-0003-2782-3480>

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