**Article title:** Epidemics, Lockdown Measures and Vulnerable Populations: A Mixed-Methods Systematic Review of the Evidence of Impacts on Mother and Child Health in Lowand Lower-Middle-Income Countries

**Journal name**: International Journal of Health Policy and Management (IJHPM)

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Supplementary file 5. Data Extraction and Quality Appraisal Form

Table S1. Data extraction form for SLR on the health impact of lockdown measures for women and children in LMICs

Title of the paper:	Burden of acute respiratory disease of epidemic and pandemic
	potential in the WHO Eastern Mediterranean Region: A
	literature review
Author(s) and date:	A. Abubakar , M. Malik , R.G. Pebody , A.A. Elkholy , W. Khan , A.
	Bellos and P. Mala
Quality appraisal according to	Exclude but not due to JBI criteria
the relevant <u>Johanna Briggs</u>	
<u>Institute tool</u> (please cross out	
or delete accordingly)	
Epidemic of reference:	No specific epidemic mentioned
Research methods employed	Systematic review
(e.g. qualitative interviews;	
modelling; surveys; systematic	
review)	
Specific lockdown measure	Not about the impact of lockdown
investigated in the study (e.g.	
generic quarantine or	
unspecified lockdown	
measure; curfew; stay at	
home policy; travel	
restrictions; school closures;	
market and trade shutdowns;	
social distancing)	
Broad area of impact explored	Description of the burden of acute respiratory diseases in
in the study (please cross out	the WHO east Mediterranean region
or delete as appropriate)	

Evidence of impact to the	
general population from	
lockdown measures (e.g. 10%	
decrease of disposable income	
before and after the peak of	
the epidemic; 30% reduction	
of hospital visits for maternal	
services)	
Specific evidence of impact on	
children (e.g. 30% increase of	
weight during two weeks of	
implementation of stay at	
home policy; or: 'calculated	
365,000 extra malaria deaths	
calculated as a consequence	
of disruption of bed nets	
distribution)	
Specific evidence of impact on	
women (e.g. 20% reduction of	
female employment in the	
fishing sector, as a result of	
decreased demand for fish	
during the epidemic)	
Relevance and importance of	exclude
the paper for our own	
systematic review	
Other comments or issues to	
be noted about this paper	

Table S1. Data extraction form for SLR on the health impact of lockdown measures for women and children in LMICs

Title of the paper:	COVID-19 Home Confinement Negatively Impacts Social
	Participation and Life Satisfaction: A Worldwide Multicenter
	Study
Author(s) and date:	Ammar et al (too many to list!)
Quality appraisal according to	■ Include
the relevant Johanna Briggs	
Institute tool (please cross out	
or delete accordingly)	
Epidemic of reference:	Covid
Research methods employed	Online Survey
(e.g. qualitative interviews;	N=1047 from 47 countries
modelling; surveys; systematic	
review)	Shared online and via networks, so not a representative sample
	per se
Specific lockdown measure	No specific measure, talks about 'social confinement'
investigated in the study (e.g.	
generic quarantine or	Paper aims to understand the impact of 'home confinement'

unspecified lockdown	
measure; curfew; stay at	
home policy; travel	
restrictions; school closures;	
market and trade shutdowns;	
social distancing)	
Broad area of impact explored in the study (please cross out	<ol> <li>Mental Health;</li> <li>Dietary patterns and nutrition;</li> </ol>
or delete as appropriate)	Physical exercise and impacts on obesity and specific diseases such as diabetes;
	<ol> <li>Disruption of routine services for mother and child services;</li> <li>Demand for healthcare / Healthcare seeking behaviour;</li> <li>Impact on partner relationships, sexual and reproductive behaviour;</li> </ol>
	7. Increases in social vulnerability, poverty and impact on human development;
	8. Other (please specify).
Evidence of impact to the general population from lockdown measures (e.g. 10% decrease of disposable income	Statistical analysis showed the total score of SSPQL (Short Social Participation Questionnaire-Lockdowns) (decreased significantly by 42% "during" compared to "before" home confinement (t = 69.19, p < 0.001, d = 2.14).
before and after the peak of the epidemic; 30% reduction of hospital visits for maternal services)	SLSQL (Short Life Satisfaction Questionnaire—Lockdowns) decreased significantly by 16% "during" compared to "before" home confinement (t = 21.05, p < 0.001, d = 0.65).
	SLSQL made up of:
	<ol> <li>In most ways my life is close to my ideal.</li> <li>So far, I have gotten the important things I want in life.</li> <li>I am satisfied with my life.</li> </ol>
	So the headline is that respondents reported lower life satisfaction during home confinement compared to before home confinement!
Specific evidence of impact on children (e.g. 30% increase of weight during two weeks of implementation of stay at home policy; or: 'calculated 365,000 extra malaria deaths calculated as a consequence	
of disruption of bed nets distribution)	
Specific evidence of impact on women (e.g. 20% reduction of female employment in the	Women comprise 53.8% of the sample
fishing sector, as a result of decreased demand for fish	
during the epidemic)	

Relevance and importance of	■ Paper of some importance for some sections of the review
the paper for our own	
systematic review	
Other comments or issues to	
be noted about this paper	

Table 1: Data extraction form for SLR on the health impact of lockdown measures for women and children in LMICs

Title of the paper:	The potential impact of the COVID-19 pandemic on child growth
	and development: a systematic review
Author(s) and date:	Arantes de Araújo et al (2020)
Quality appraisal according to	Seek further information
the relevant <u>Johanna Briggs</u>	
<u>Institute tool</u> (please cross out	
or delete accordingly)	
Epidemic of reference:	COVID-19
Research methods employed	Systematic review
(e.g. qualitative interviews;	
modelling; surveys; systematic	
review)	
Specific lockdown measure	Social restrictions, shutdowns, and school closures
investigated in the study (e.g.	
generic quarantine or	
unspecified lockdown	
measure; curfew; stay at	
home policy; travel	
restrictions; school closures;	
market and trade shutdowns;	
social distancing)	O Mantal Haalth.
Broad area of impact explored	9. Mental Health;
in the study (please cross out or delete as appropriate)	<ul><li>10. Dietary patterns and nutrition;</li><li>11. Physical exercise and impacts on obesity and specific</li></ul>
or delete as appropriate)	diseases such as diabetes;
	12. Disruption of routine services for mother and child services;
	13. Demand for healthcare / Healthcare seeking behaviour;
	14. Impact on partner relationships, sexual and reproductive
	behaviour;
	15. Increases in social vulnerability, poverty and impact on
	human development;
	16. Other (please specify).
	(F
Evidence of impact to the	
general population from	
lockdown measures (e.g. 10%	
decrease of disposable income	
before and after the peak of	
the epidemic; 30% reduction	
of hospital visits for maternal	
services)	

Specific evidence of impact on	The review reports findings from two cases in Sierra Leone and
children (e.g. 30% increase of	Nigeria where children were more susceptible of mental healh
weight during two weeks of	issues because of the Ebola pandemic – but not necessarily
implementation of stay at	because of the lockdown measures
home policy; or: 'calculated	Second of the lockdown medsuresm
365,000 extra malaria deaths	Interesting discussion on the lack of evidence on the
calculated as a consequence	effectiveness of school closures from the US
of disruption of bed nets	
distribution)	
Specific evidence of impact on	In addressing the challenges for pregnant women during
women (e.g. 20% reduction of	pandemics, fetal losses caused by possible maternal infection
female employment in the	have been investigated; however, losses due to secondary
fishing sector, as a result of	causes, such as mood changes during pregnancy and in the
decreased demand for fish	postpartum period are also relevant.
during the epidemic)	
Relevance and importance of	■ Secondary paper
the paper for our own	
systematic review	
Other comments or issues to	The quality was dubious, but I woud not exclude the study
be noted about this paper	completely. But will not use its findings extensively.

Table S1. Data extraction form for SLR on the health impact of lockdown measures for women and children in LMICs

Title of the paper:	Consequences of calamities and their management: The case of COVID-19 pandemic and flooding on inland capture fisheries in Kenya
Author(s) and date:	Christopher Mulanda Aura, Chrisphine S. Nyamweya , Cyprian O. Odoli , Horace Owiti ,James M. Njiru , Patrick W. Otuo , Edna Waithaka , John Malala
Quality appraisal according to the relevant Johanna Briggs Institute tool (please cross out or delete accordingly)	□ Include
Epidemic of reference:	Covid-19
Research methods employed (e.g. qualitative interviews; modelling; surveys; systematic review)	Socio-economic survey with purposively sampled stakeholders from across the fish value chain, including:  Input providers (boat builders and engine repairers); producers (fishers); middlemen (fish traders and processors); ancillary service providers (transporters and community health workers); and managers (Beach Manage ment Units' official)  N=336 across 4 different lakes in Kenya  80% of respondents either fishers or traders
Specific lockdown measure	Measures mentioned"
investigated in the study (e.g.	
generic quarantine or	"These included restricting international travel, cessation of
unspecified lockdown	movement from some cities including the capital city of Nairobi,

measure; curfew; stay at home policy; travel	imposing curfews, social distancing and closure of areas of mass gathering such as schools and places of worship, and dusk
restrictions; school closures;	to dawn curfews"
market and trade shutdowns;	
social distancing)	
Broad area of impact explored	17. Increases in social vulnerability, poverty and impact on
in the study (please cross out	human development;
or delete as appropriate)	18.
Evidence of impact to the general population from lockdown measures (e.g. 10% decrease of disposable income	These measures, and specifically the cessation of movement to cities that are the main fish markets, curfews and social distancing affected fishing trips and duration, disrupted the fish value chain and affected the livelihoods of fishers.
before and after the peak of the epidemic; 30% reduction of hospital visits for maternal services)	79% of respondents said that COVID measures impacted the fishing industry 'very much' (as opposed to 'much' or 'a little')
·	Fish traders and processors affected the most due to closures of markets
	"The COVID-19 pandemic containment regulations impacted fishing and fish trade in all the freshwater lakes examined, for instance, dusk to dawn curfew (66%, n = 128), lock-down to major markets such as Nairobi and Mombasa (28%, n = 55),"
	"fishing time was reduced (76%, $n = 116$ ) as well as fishing trips per week from an average of seven to five trips ( $n = 103$ ) due to the COVID-19 pandemic. The reduction in fishing time and trips were occasioned by the dusk to dawn (1900 h $_{-}$ 0500 h) curfew. In addition, during the pandemic, there was a notable decline in the average crew (fishing inputs) and boat fuel (consumable) used in fishing activities resulting into a cross-cutting decline in catch quantities and prices"
Specific evidence of impact on children (e.g. 30% increase of weight during two weeks of implementation of stay at	
home policy; or: 'calculated	
365,000 extra malaria deaths	
calculated as a consequence	
of disruption of bed nets	
distribution)	
Specific evidence of impact on	
women (e.g. 20% reduction of female employment in the	
fishing sector, as a result of	
decreased demand for fish	
during the epidemic)	
<u> </u>	

Relevance and importance of	Secondary paper
the paper for our own	
systematic review	
Other comments or issues to	Shows impacts on livelihoods that will have further
be noted about this paper	implications for women and child health

Table 2: Data extraction form for SLR on the health impact of lockdown measures for women and children in LMICs

Title of the paper:	Predicting the Impact of COVID-19 and the Potential Impact of
	the Public Health Response on Disease Burden in Uganda
Author(s) and date:	Bell et al (2020)
Quality appraisal according to	■ Include
the relevant Johanna Briggs	
<u>Institute tool</u> (please cross out	
or delete accordingly)	
Epidemic of reference:	COVID-19
Research methods employed	Modelling publicly available data for burden of disease in
(e.g. qualitative interviews;	Uganda
modelling; surveys; systematic	
review)	
Specific lockdown measure	Generic social distancing policies (involving stay at home, travel
investigated in the study (e.g.	restrictions, but also disruption of services)
generic quarantine or	
unspecified lockdown	
measure; curfew; stay at	
home policy; travel	
restrictions; school closures;	
market and trade shutdowns;	
social distancing)	
Broad area of impact explored	19. Deaths.
in the study (please cross out	
or delete as appropriate)	
Evidence of impact to the	Decline of 75% in reporting of new AIDS cases and initiation of
general population from	ART therapy. The authors predicted an overall loss of 475,319
lockdown measures (e.g. 10%	DALYs from disruption of therapy and detection of new cases.
decrease of disposable income	Different scenarios of mortality (from 3,000 to 31,000), and
before and after the peak of	DALY lost to malaria (most of them for children), ranging from
the epidemic; 30% reduction	257,000 to 2,450,000.
of hospital visits for maternal	
services)	
Specific evidence of impact on	
children (e.g. 30% increase of	
weight during two weeks of	
implementation of stay at	
home policy; or: 'calculated	
365,000 extra malaria deaths	
calculated as a consequence	
of disruption of bed nets	
distribution)	

Specific evidence of impact on women (e.g. 20% reduction of female employment in the fishing sector, as a result of decreased demand for fish during the epidemic)	Maternal mortality. A 29% (28,939) reduction in facility deliveries is recorded in the Ministry of Health Uganda data in March compared with January 2020, 28% less than the 12-month average for 2019. Over the same period, an 82% increase in maternal mortality was recorded (from 92 to 167 women), an increase of 87% over the 12-month 2019 average of 89.5 (Figure
during the epidernic)	1, Supplemental Table S4). An excess 486 deaths are predicted for a 6-month period, incurring 31,343 DALYs lost.
Relevance and importance of the paper for our own systematic review	■ Key paper for the review
Other comments or issues to be noted about this paper	Very important paper, particularly as it focuses on Uganda.

Table S1. Data extraction form for SLR on the health impact of lockdown measures for women and children in LMICs

	1			
Title of the paper:	Challenges for work–life balance during COVID-19 induced			
	nationwide lockdown: exploring gender difference in emotional			
	exhaustion in the Indian setting			
Author(s) and date:	Bhumika			
Quality appraisal according to	■ Include			
the relevant <u>Johanna Briggs</u>				
<u>Institute tool</u> (please cross out				
or delete accordingly)				
Epidemic of reference:	Covid-19			
Research methods employed	Online survey with "employed individuals (employed on payroll)			
(e.g. qualitative interviews;	who were working from home during the COVID-19-induced			
modelling; surveys; systematic	countrywide lockdown. The selected participants were full time			
review)	employees, and their employers expected them to be available			
	online at least for the normal office hours during the working			
	days. The research participants belonged to a heterogeneous			
	sample of industries, including IT, education, finance and			
	automobile"			
	N=180			
Specific lockdown measure	No specific measure			
investigated in the study (e.g.				
generic quarantine or	"On 24 March, Indian Prime Minister announced a 21 days'			
unspecified lockdown	nationwide lockdown till 3 April 2020, which got further			
measure; curfew; stay at	extended till 3 May 2020."			
home policy; travel				
restrictions; school closures;				
market and trade shutdowns;				
social distancing)				
Broad area of impact explored	20. Mental Health;			
in the study (please cross out				
or delete as appropriate)				
Evidence of impact to the	N. I			
general population from	Work Interference with person like (WIPL) (b = 0.69, p < 0.05,			
lockdown measures (e.g. 10%	95%CI = 0.55 to 0.82) was found to be positively related to			
	emotional exhaustion.			

decrease of disposable income before and after the peak of the epidemic; 30% reduction of hospital visits for maternal services)	Personal life interfering with work (b = 0.81, p < 0.05, 95% CI = 0.61 to 1.01) was found to be positively related to emotional exhaustion.
Specific evidence of impact on children (e.g. 30% increase of weight during two weeks of implementation of stay at home policy; or: 'calculated 365,000 extra malaria deaths calculated as a consequence of disruption of bed nets distribution)	
Specific evidence of impact on women (e.g. 20% reduction of female employment in the fishing sector, as a result of	The relationship between personal life interfering with work and emotional exhaustion was moderated by gender such that it was stronger for women than men.
decreased demand for fish during the epidemic)	The authors put this down to
	"family and work are considered to be the primary domains for women, whereas work becomes the primary domain for men. Due to such prescribed gender specific roles, working women might experience a double bind when family and work are equally demanding. In the case of dual career phenomena, couples juggle between work and family demands, and in such cases, women might feel a double bind due to the prescribed gender specific roles existing in a particular society. The working women might have to struggle to create a balance between work and family, particularly when both simultaneously demand higher attention and efforts."
Relevance and importance of the paper for our own	Secondary paper
systematic review	
Other comments or issues to be noted about this paper	Some limited statistical imapcts on women.

Table 3: Data extraction form for SLR on the health impact of lockdown measures for women and children in LMICs

Title of the paper:	Preventive malaria treatment for contacts of patients with Ebola		
	virus disease in the context of the west Africa 2014-15 Ebola		
	virus disease response: an economic analysis		
Author(s) and date:	Carias et al (2016)		
Quality appraisal according to	■ Include		
the relevant Johanna Briggs			
<u>Institute tool</u> (please cross out			
or delete accordingly)			
Epidemic of reference:	Ebola		
Research methods employed	Economic evaluation of preventive malaria treatment for all		
(e.g. qualitative interviews;	contacts of patients with Ebola virus disease		

modelling; surveys; systematic			
review)			
Specific lockdown measure investigated in the study (e.g. generic quarantine or unspecified lockdown measure; curfew; stay at home policy; travel restrictions; school closures; market and trade shutdowns; social distancing)	Quarantine, contact tracing and isolating patients		
Broad area of impact explored in the study (please cross out or delete as appropriate)	<ul><li>21. Demand for healthcare / Healthcare seeking behaviour;</li><li>22. Other – treating preventively for malaria patients isolated for Ebola to avoid being admitted to ETU</li></ul>		
Evidence of impact to the general population from lockdown measures (e.g. 10% decrease of disposable income before and after the peak of the epidemic; 30% reduction of hospital visits for maternal services)	Administration of preventive ACTs to contacts of patients with Ebola virus disease was cost saving for contacts of all Ages, as it avoided hospitalization or being mistakenly admitted to Ebola Treatment Units		
Specific evidence of impact on children (e.g. 30% increase of weight during two weeks of implementation of stay at home policy; or: 'calculated 365,000 extra malaria deaths calculated as a consequence of disruption of bed nets distribution)	The intervention was calculated to be cost saving in contacts in areas with malaria parasite prevalence in children aged 2–10 years as low as 10%		
Specific evidence of impact on women (e.g. 20% reduction of female employment in the fishing sector, as a result of decreased demand for fish during the epidemic)	N/A		
Relevance and importance of the paper for our own systematic review	■ Secondary paper		
Other comments or issues to be noted about this paper	This study looks at the effects of being put in quarantine/isolation and displaying malaria symptoms that can be mistaken for Ebola, particularly fo rchildren. We can make an argument that once in isolation, patients do not seek/are not given services to correctly diagnose malaria		

Table 4: Data extraction form for SLR on the health impact of lockdown measures for women and children in LMICs

Title of the paper:	Impacts of a National Lockdown on Smallholder Farmers' Income and Food Security: Empirical Evidence from Two States in India	
Author(s) and date:	Ceballos, Kannan and Kramer (2020)	
Quality appraisal according to		
the relevant Johanna Briggs	merade	
Institute tool (please cross out		
or delete accordingly)		
Epidemic of reference:	COVID-19	
Research methods employed	Phone-based surveys on disruptions to agricultural production	
(e.g. qualitative interviews;	and food security, complemented by key informants interviews	
modelling; surveys; systematic	and desk review	
review)	and desk review	
Specific lockdown measure	Restriction of movement and travel across states for seasonal	
investigated in the study (e.g.	workers. Closure of local markets for procurement of crops	
generic quarantine or	(wheat and black gram).	
unspecified lockdown	(which and black Brain).	
measure; curfew; stay at		
home policy; travel		
restrictions; school closures;		
market and trade shutdowns;		
social distancing)		
Broad area of impact explored	23. Dietary patterns and nutrition;	
in the study (please cross out	24. Increases in social vulnerability, poverty and impact on	
or delete as appropriate)	human development;	
т истого из при	25. Reduction of disposable income	
	'	
Evidence of impact to the	Because of the shortages of seasonal labourers linked to	
general population from	travelling restrictions, 41-80% of farmers responded that they	
lockdown measures (e.g. 10%	had to spend more on labour to harvest. Because of the closures	
decrease of disposable income	of the local markets (modis), 61-74% responded they had to	
before and after the peak of	store their harvest and sell in the future. No difference in access	
the epidemic; 30% reduction	to food was reported before and after the lockdowns.	
of hospital visits for maternal		
services)		
Specific evidence of impact on	N/A	
children (e.g. 30% increase of		
weight during two weeks of		
implementation of stay at		
home policy; or: 'calculated		
365,000 extra malaria deaths		
calculated as a consequence		
of disruption of bed nets		
distribution)		
Specific evidence of impact on	N/A	
women (e.g. 20% reduction of		
female employment in the		
fishing sector, as a result of		

decreased demand for fish	
during the epidemic)	
Relevance and importance of	Secondary paper
the paper for our own	
systematic review	
Other comments or issues to	
be noted about this paper	

Table S1. Data extraction form for SLR on the health impact of lockdown measures for women and children in LMICs

Title of the paper:	Decrease in Hospitalizations and Increase in
Title of the paper.	Deaths during the Covid-19 Epidemic in a Pediatric
	Hospital, Yaounde-Cameroon and Prediction for
	the Coming Months
Author(s) and date:	David Chelo , Isabelle Mekone Nkwelle , Félicitée Nguefack ,
Author(s) and date:	
	Hubert Désiré, Mbassi Awa, Dominique Enyama, Séraphin
	Nguefack , Diomède Noukeu
	Njinkui , Jocelyn Tony Nengom , Georges Nguefack-Tsague & Paul Olivier Koki Ndombo
Overlite a communical accounting to	
Quality appraisal according to	□ Include
the relevant Johanna Briggs	
Institute tool (please cross out	
or delete accordingly)	0.1140
Epidemic of reference:	Covid-19
Research methods employed	A descriptive and retrospective cross-sectional study was
(e.g. qualitative interviews;	carried out using hospitalization and death statistics collected
modelling; surveys; systematic	from a pediatric hospital. We compared the data before and
review)	after the pandemic and made predictions for the next
	12months.
Specific lockdown measure	No specific measure used
investigated in the study (e.g.	
generic quarantine or	The study was conducted from $1_{st}$ to $30_{th}$ June, $2020$ and covered the period from
unspecified lockdown	January 1st, 2016 to May 31st, 2020.
measure; curfew; stay at	,,,,,,
home policy; travel	
restrictions; school closures;	
market and trade shutdowns;	
social distancing)	
Broad area of impact explored	26. Disruption of routine services for mother and child services;
in the study (please cross out	
or delete as appropriate)	
Evidence of impact to the	
general population from	
lockdown measures (e.g. 10%	
decrease of disposable income	
before and after the peak of	
the epidemic; 30% reduction	
of hospital visits for maternal	
services)	

Specific evidence of impact on children (e.g. 30% increase of weight during two weeks of	27% and 47% drop in hospitalizations during the months of April and May 2020 respectively as compared to the same period in 2019 (p%0.00001).
implementation of stay at home policy; or: 'calculated 365,000 extra malaria deaths calculated as a consequence of disruption of bed nets distribution)	Mortality doubled during the months of April and May 2020 with 9.9% and 11.2% respectively of hospital deaths compared to 4.9% (p¼0.0008) and 5.1%(p¼0.0001) during the same period of the previous year.
Specific evidence of impact on women (e.g. 20% reduction of female employment in the fishing sector, as a result of decreased demand for fish during the epidemic)	
Relevance and importance of the paper for our own systematic review	■ Key paper for the review
Other comments or issues to be noted about this paper	Concrete data of the impact of the epidemic (which will include control measures but also other things)

Table S1. Data extraction form for SLR on the health impact of lockdown measures for women and children in LMICs

Title of the paper:	A Cross-Sectional Study on Cognitive Errors and Obsessive- Compulsive Disorders among Young People During the Outbreak of Coronavirus Disease 2019
Author(s) and date:	Elham Darvishi, Solmaz Golestan, Farangis Demehri and Sheida Jamalnia, 2020
Quality appraisal according to the relevant <u>Johanna Briggs</u> <u>Institute tool</u> (please cross out or delete accordingly)	■ Include
Epidemic of reference:	Covid-19
Research methods employed (e.g. qualitative interviews; modelling; surveys; systematic review)	Cross sectional survey (n=150)
Specific lockdown measure investigated in the study (e.g. generic quarantine or unspecified lockdown measure; curfew; stay at home policy; travel restrictions; school closures; market and trade shutdowns; social distancing)	No specific lockdown measure. The issue of lockdown is mentioned early on but no background to the lockdown measures implemented in Iran was given.
Broad area of impact explored in the study (please cross out or delete as appropriate)	27. Mental Health;

Evidence of impact to the general population from lockdown measures (e.g. 10% decrease of disposable income before and after the peak of the epidemic; 30% reduction of hospital visits for maternal services)	
Specific evidence of impact on children (e.g. 30% increase of weight during two weeks of implementation of stay at home policy; or: 'calculated	The sample age range was 13-19 high school students 67.3% of the subjects may have demonstrated OCD symptoms
365,000 extra malaria deaths calculated as a consequence of disruption of bed nets distribution)	The prevalence of obsessive-compulsive disorder symptoms in female students was slightly higher than in male students (72.1% compared to 60.3%)
	highest prevalence of obsessive-compulsive disorder symptom belonged to the washing compulsion
	For those exhibiting some OCD symptons, higher levels of Cognitive Errors were reported
Specific evidence of impact on	The prevalence of obsessive-compulsive disorder
women (e.g. 20% reduction of	symptoms in female students was slightly higher than in male
female employment in the	students (72.1% compared to 60.3%)
fishing sector, as a result of	
decreased demand for fish	
during the epidemic)	
Relevance and importance of	Paper of some importance for some sections of the review
the paper for our own	
systematic review	
Other comments or issues to	Not much detail on lockdown. No idea how the random
be noted about this paper	sample was conducted!
	I am also not sure I fully understand their data, a difficult
	paper to read.

Table S1. Data extraction form for SLR on the health impact of lockdown measures for women and children in LMICs

Title of the paper:	Early impact of COVID-19 lockdown on children's sleep: a 4-week	
	longitudinal study	
Author(s) and date:	Antonio Dellagiulia, Francesca Lionetti, Mirco Fasolo, Chiara	
	Verderame,; Alessandra Sperati, Guido Alessandri,	
Quality appraisal according to	Exclude but on the basis of this study being conducted in	
the relevant Johanna Briggs	Italy, not a LMIC	
<u>Institute tool</u> (please cross out		
or delete accordingly)		
Epidemic of reference:		
Research methods employed		
(e.g. qualitative interviews;		

modelling; surveys; systematic		
review)		
Specific lockdown measure		
investigated in the study (e.g.		
generic quarantine or		
unspecified lockdown		
measure; curfew; stay at		
home policy; travel		
restrictions; school closures;		
market and trade shutdowns;		
social distancing)		
Broad area of impact explored	28.	Mental Health;
in the study (please cross out	29.	Dietary patterns and nutrition;
or delete as appropriate)	30.	Physical exercise and impacts on obesity and specific
		diseases such as diabetes;
		Disruption of routine services for mother and child services;
		Demand for healthcare / Healthcare seeking behaviour;
	33.	Impact on partner relationships, sexual and reproductive
		behaviour;
	34.	Increases in social vulnerability, poverty and impact on
		human development;
	35.	Other (please specify).
Triiday as of invested to the		
Evidence of impact to the		
general population from		
lockdown measures (e.g. 10% decrease of disposable income		
before and after the peak of		
the epidemic; 30% reduction		
of hospital visits for maternal		
services)		
Specific evidence of impact on		
children (e.g. 30% increase of		
weight during two weeks of		
implementation of stay at		
home policy; or: 'calculated		
365,000 extra malaria deaths		
calculated as a consequence		
of disruption of bed nets		
distribution)		
Specific evidence of impact on		
women (e.g. 20% reduction of		
female employment in the		
fishing sector, as a result of		
decreased demand for fish		
during the epidemic)		
Relevance and importance of		Key paper for the review
the paper for our own		Paper of some importance for some sections of the review
systematic review		Secondary paper
Other comments or issues to		
be noted about this paper	Ì	

Table S1. Data extraction form for SLR on the health impact of lockdown measures for women and children in LMICs

Author(s) and date:	A. Kc, R. Gurung, M. V. Kinney, A. K. Sunny, M. Moinuddin, O. Basnet, P. Paudel, P. Bhattarai, K.
	Subedi, M. P. Shrestha, J. E. Lawn and M. Målqvist;
Year	2020
Title of the paper:	Effect of the COVID-19 pandemic response on intrapartum care, stillbirth, and neonatal mortality outcomes in Nepal: a prospective observational study
Study design	a prospective observational study
Setting	hospital
PS	Women
Study location	Nepal
Quality appraisal according to the relevant	Include
Johanna Briggs Institute tool (please cross out	
or delete accordingly)	
Epidemic of reference:	Covid-19
Research methods employed (e.g. qualitative	Modelling; quantitaive surveillance
interviews; modelling; surveys; systematic	
review)	
Specific lockdown measure investigated in the	generic quarantine or unspecified lockdown measure
study (e.g. generic quarantine or unspecified	
lockdown measure; curfew; stay at home policy;	
travel restrictions; school closures; market and	
trade shutdowns; social distancing)	
Broad area of impact explored in the study	Disruption of routine services for mother and child services;
(please cross out or delete as appropriate)	
Evidence of impact to the general population	the mean weekly number of births decreased from 1261·1 births (SE 66·1) before lockdown to 651·4
from lockdown measures (e.g. 10% decrease of	births (49·9) during lockdown—a reduction of 52·4%;
disposable income before and after the peak of	
the epidemic; 30% reduction of hospital visits	
for maternal services)	
Specific evidence of impact on children (e.g.	The institutional stillbirth rate increased from 14 per 1000 total births before lockdown to 21 per
30% increase of weight during two weeks of	1000 total births during lockdown (p=0.0002), and institutional neonatal mortality increased from 13
implementation of stay at home policy; or:	per 1000 livebirths to 40 per 1000 livebirths (p=0·0022); The average weekly reduction in institutional
'calculated 365,000 extra malaria deaths	births during lockdown was 7.4%, with a total decrease of 52.4% by the end of lockdown
calculated as a consequence of disruption of	
bed nets distribution)	
Specific evidence of impact on women (e.g. 20%	In terms of quality of care, intrapartum fetal heart rate monitoring decreased by 13·4% (-15·4 to -
reduction of female employment in the fishing	11·3; p<0·0001), and breastfeeding within 1 h of birth decreased by 3·5% ( $-4$ ·6 to $-2$ ·6; p=0·0032);
sector, as a result of decreased demand for fish	Decrease in attendance was seen among the more disadvantaged ethnic group Madhesi during
during the epidemic)	lockdown (1228 [17·1%]) compared with before lockdown (2840 [21·5%]; p=0·0015); The proportion
- •	of women who had a complication during admission increased from 6.7% (n=884) before lockdown to
	8.7% (n=587) during lockdown (p=0.0126). The proportion of women whose labour was induced
	increased from 17·1% (n=2258) before lockdown to 32·1% (n=2282) during lockdown (p<0·0001). The
	proportion of women who had caesarean section increased from 24·5% (n=3234) before lockdown to
	26·2% (n=1879) during lockdown (p=0·0075).
Relevance and importance of the paper for our	Key paper for the review
own systematic review	
Other comments or issues to be noted about	
this paper	

Author(s) and date:	Fitzgerald, F., Awonuga, W., Shah, T., & Youkee, D. (2016). Ebola response in Sierra Leone: The impact on
V	children. Journal of Infection, 72, S6-S12.
Year	2016
Title of the paper:	Ebola response in Sierra Leone: The impact on children
Study design	Survey
Setting	Ebola Holding Unit
PS	Children
Study location	Sierra Leone
Quality appraisal according to the relevant Johanna Briggs Institute tool (please cross out or	Exclude
delete accordingly)	
Epidemic of reference:	Ebola
Research methods employed (e.g. qualitative	Not Clear
interviews; modelling; surveys; systematic review)	THE SEC.
Specific lockdown measure investigated in the	generic quarantine or unspecified lockdown measure
study (e.g. generic quarantine or unspecified	
lockdown measure; curfew; stay at home policy;	
travel restrictions; school closures; market and	
trade shutdowns; social distancing)	
Broad area of impact explored in the study	Disruption of routine services for mother and child services;
(please cross out or delete as appropriate)	
Evidence of impact to the general population	The provision of care to unaccompanied children in a Red Zone (full barrier nursing, where risk of Ebola
from lockdown measures (e.g. 10% decrease of	exposure was judged to be highest) environment extremely challenging. many children had already lost
disposable income before and after the peak of	family members to EVD, meant that approximately 40% of children were admitted unaccompanied to
the epidemic; 30% reduction of hospital visits for	EHU
maternal services)	
Specific evidence of impact on children (e.g. 30%	difficulty of PPE; PPE hinders effective communication with a child as it makes any worker look terrifying;
increase of weight during two weeks of	PPE is flimsy; Ambulant unaccompanied children are difficult to control increasing the risk of cross-
implementation of stay at home policy; or:	contamination and EVD transmission.; Red Zones are full of risks beyond EVD exposure, including sharps
'calculated 365,000 extra malaria deaths	bins and buckets of strong chlorine solution that children may mistake for a bath or attempt to drink,
calculated as a consequence of disruption of bed	both situations; children trying to escape out of the Red Zone and back to their parents.
nets distribution)	
Specific evidence of impact on women (e.g. 20%	Forbidding asymptomatic mothers from accompanying their unwell children into EHUs.
reduction of female employment in the fishing	
sector, as a result of decreased demand for fish during the epidemic)	
Relevance and importance of the paper for our	Secondary paper
own systematic review	Secondary paper
Other comments or issues to be noted about this	
paper	
r-r	I

Author(s) and date:	A. Delamou, A. M. E. Ayadi, S. Sidibe, T. Delvaux, B. S. Camara, S. D. Sandouno, A. H. Beavogui, G. W.
Author(s) and date:	Rutherford, J. Okumura, W. H. Zhang and V. De Brouwere
Year	2017
Title of the paper:	Effect of Ebola virus disease on maternal and child health services in Guinea: a retrospective
Title of the paper.	observational cohort study
Study design	a retrospective observational cohort study
Setting	public health facilities
PS	Woman & children
Study location	Guinea
Quality appraisal according to the relevant	In all all a
Johanna Briggs Institute tool (please cross out or	Include
delete accordingly)	
Epidemic of reference:	Ebola
Research methods employed (e.g. qualitative	quantitaive surveillance
interviews; modelling; surveys; systematic review)	quantitative surveinance
Specific lockdown measure investigated in the	generic quarantine or unspecified lockdown measure
study (e.g. generic quarantine or unspecified	general qualantane of unspecimen lockdown measure
lockdown measure; curfew; stay at home policy;	
travel restrictions; school closures; market and	
trade shutdowns; social distancing)	
Broad area of impact explored in the study	Disruption of routine services for mother and child services;
(please cross out or delete as appropriate)	,
Evidence of impact to the general population	Most maternal and child health indicators significantly declined during the Ebola virus disease outbreak in
from lockdown measures (e.g. 10% decrease of	2014. Despite a reduction in this negative trend in the post-outbreak period, the use of essential maternal
disposable income before and after the peak of	and child health services have not recovered to their pre-outbreak levels, nor are they all on a course that
the epidemic; 30% reduction of hospital visits for	suggests that they will recover without targeted interventions.
maternal services)	
Specific evidence of impact on children (e.g. 30%	The greatest reductions were noted for polio and tuberculosis at –3594 (95% CI –4811 to –2377;
increase of weight during two weeks of	p<0·0001) and –3048 (95% CI –5879 to –216; p=0·0362) fewer vaccines administered, respectively.
implementation of stay at home policy; or:	
'calculated 365,000 extra malaria deaths	
calculated as a consequence of disruption of bed	
nets distribution)	
Specific evidence of impact on women (e.g. 20%	These increasing trends were reversed during the epidemic: fewer institutional deliveries occurred (–240,
reduction of female employment in the fishing	95% CI –293 to –187), and fewer women achieved at least one antenatal care visit (–418, 95% CI –535 to –
sector, as a result of decreased demand for fish	300) or at least three antenatal care visits (–363, 95% CI –485 to –242) per month (p<0.0001 for all).
during the epidemic)	Compared with the negative trend during the outbreak, the change in trend during the post-outbreak
	period showed that 173 more women per month (95% CI 51–294; p=0·0074) had at least one antenatal
	care visit, 257 more (95% Cl 117–398; p=0·0010) had at least three antenatal care visits and 149 more
Delevere and importance of the control	(95% CI 91–206; p<0·0001) had institutional deliveries.
Relevance and importance of the paper for our	Key paper for the review
Other comments or issues to be noted about this	
Other comments or issues to be noted about this	
paper	

Author(s) and date:	Mateusz M Plucinski, Timothée Guilavogui, Sidibe Sidikiba, Nouman Diakité, Souleymane Diakité, Mohamed Dioubaté, Ibrahima Bah, Ian Hennessee, Jessica K Butts, Eric S Halsey, Peter D McElroy, S Patrick Kachur, Jamila Aboulhab, Richard James, Moussa Keita
Year	2015
Title of the paper:	Effect of the Ebola-virus-disease epidemic on malaria case management in Guinea, 2014: a cross-sectional survey of health facilities
Study design	cross-sectional survey of health facilities
Setting	health facilities
PS	Not specific
Study location	Guinea
Quality appraisal according to the relevant  Johanna Briggs Institute tool (please cross out or delete accordingly)	Seek further information
Epidemic of reference:	Ebola
Research methods employed (e.g. qualitative interviews; modelling; surveys; systematic review)	quantitaive surveillance; qualitative interviews
Specific lockdown measure investigated in the study (e.g. generic quarantine or unspecified lockdown measure; curfew; stay at home policy; travel restrictions; school closures; market and trade shutdowns; social distancing)	generic quarantine or unspecified lockdown measure
Broad area of impact explored in the study (please cross out or delete as appropriate)	Disruption of routine services for mother and child services;
Evidence of impact to the general population from lockdown measures (e.g. 10% decrease of disposable income before and after the peak of the epidemic; 30% reduction of hospital visits for maternal services)  Specific evidence of impact on children (e.g. 30% increase of weight during two weeks of implementation of stay at home policy; or: 'calculated 365,000 extra malaria deaths	The reduction in the delivery of malaria care because of the Ebola-virus-disease epidemic threatens malaria control in Guinea. Untreated and inappropriately treated malaria cases lead to excess malaria mortality and more fever cases in the community, impeding the Ebola-virus-disease response; Nationwide, the Ebola-virus-disease epidemic was estimated to have resulted in 74 000 (71 000–77 000) fewer malaria cases seen at health facilities in 2014.  We noted substantial reductions in all-cause outpatient visits (by 23 103 [11%] of 214 899), cases of fever (by 20249 [15%] of 131 330), and patients treated with oral (by 22 655 [24%] of 94 785) and injectable (by 5219 [30%] of 17 684) antimalarial drugs in surveyed health facilities.; . In Ebola-affected prefectures, 73 of 98 interviewed community
calculated as a consequence of disruption of bed nets distribution)	health workers were operational (74%, 95% CI 65–83) and 35 of 73 were actively treating malaria cases (48%, 36–60) compared with 106 of 112 (95%, 89–98) and 102 of 106 (96%, 91–99), respectively, in Ebola-unaff ected prefectures.
Specific evidence of impact on women (e.g. 20% reduction of female employment in the fishing sector, as a result of decreased demand for fish during the epidemic)	We noted substantial reductions in all-cause outpatient visits (by 23 103 [11%] of 214 899), cases of fever (by 20249 [15%] of 131 330), and patients treated with oral (by 22 655 [24%] of 94 785) and injectable (by 5219 [30%] of 17 684) antimalarial drugs in surveyed health facilities.; . In Ebola-affected prefectures, 73 of 98 interviewed community health workers were operational (74%, 95% CI 65–83) and 35 of 73 were actively treating malaria cases (48%, 36–60) compared with 106 of 112 (95%, 89–98) and 102 of 106 (96%, 91–99), respectively, in Ebola-unaff ected prefectures.
Relevance and importance of the paper for our own systematic review	Paper of some importance for some sections of the review
Other comments or issues to be noted about this paper	Not specific to Women and Child and therfore the imact was dulicated both in women and children

Author(s) and date:	A. S. Parpia, M. L. Ndeffo-Mbah, N. S. Wenzel and A. P. Galvani
Year	2016
Title of the paper:	Effects of Response to 2014-2015 Ebola Outbreak on Deaths from Malaria, HIV/AIDS, and Tuberculosis,
	West Africa
Study design	
Setting	NA
PS	Not specific
Study location	West Africa ( Guinea, Liberia, and Sierra Leone)
Quality appraisal according to the relevant	Seek further information
Johanna Briggs Institute tool (please cross out or	
delete accordingly)	
Epidemic of reference:	Ebola
Research methods employed (e.g. qualitative	Modelling
interviews; modelling; surveys; systematic review)	
Specific lockdown measure investigated in the	generic quarantine or unspecified lockdown measure
study (e.g. generic quarantine or unspecified	
lockdown measure; curfew; stay at home policy;	
travel restrictions; school closures; market and	
trade shutdowns; social distancing)	
Broad area of impact explored in the study	Disruption of routine services for mother and child services;
(please cross out or delete as appropriate)	
Evidence of impact to the general population	We estimated that a 50% reduction in access to healthcare services during the Ebola outbreak
from lockdown measures (e.g. 10% decrease of	exacerbated malaria, HIV/AIDS, and tuberculosis mortality rates by additional death counts of 6,269
disposable income before and after the peak of	(2,564–12,407) in Guinea; 1,535 (522–2,8780) in Liberia; and 2,819 (844–4,844) in Sierra Leone.
the epidemic; 30% reduction of hospital visits for	
maternal services)	NI/A
Specific evidence of impact on children (e.g. 30% increase of weight during two weeks of	N/A
implementation of stay at home policy; or:	
'calculated 365,000 extra malaria deaths	
calculated 365,000 extra maiaria deaths calculated as a consequence of disruption of bed	
nets distribution)	
Specific evidence of impact on women (e.g. 20%	N/A
reduction of female employment in the fishing	
sector, as a result of decreased demand for fish	
during the epidemic)	
Relevance and importance of the paper for our	Paper of some importance for some sections of the review
own systematic review	<u> </u>
Other comments or issues to be noted about this	Not specific to Women and Child
paper	
1 1	

Author(s) and date:	J. Ly, V. Sathananthan, T. Griffiths, Z. Kanjee, A. Kenny, N. Gordon, G. Basu, D. Battistoli, L. Dorr, B. Lorenzen, D. R. Thomson, A. Waters, U. G. Moore, R. Roberts, W. L. Smith, M. J. Siedner and J. D. Kraemer
Year	2016
Title of the paper:	Facility-Based Delivery during the Ebola Virus Disease Epidemic in Rural Liberia: Analysis from a Cross- Sectional, Population-Based Household Survey
Study design	a Cross-Sectional, Population-Based Household Survey
Setting	Facility-Based Delivery
PS	Women
Study location	
Quality appraisal according to the relevant Johanna Briggs Institute tool (please cross out or delete accordingly)	Seek further information
Epidemic of reference:	Ebola
Research methods employed (e.g. qualitative interviews; modelling; surveys; systematic review)	
Specific lockdown measure investigated in the study (e.g. generic quarantine or unspecified lockdown measure; curfew; stay at home policy; travel restrictions; school closures; market and trade shutdowns; social distancing)	generic quarantine or unspecified lockdown measure
Broad area of impact explored in the study (please cross out or delete as appropriate)	Disruption of routine services for mother and child services;
Evidence of impact to the general population from lockdown measures (e.g. 10% decrease of disposable income before and after the peak of the epidemic; 30% reduction of hospital visits for maternal services)	We detected a 30% decreased odds of FBD after the start of EVD in a rural Liberian county with relatively few cases
Specific evidence of impact on children (e.g. 30% increase of weight during two weeks of implementation of stay at home policy; or: 'calculated 365,000 extra malaria deaths calculated as a consequence of disruption of bed nets distribution)	N/A
Specific evidence of impact on women (e.g. 20% reduction of female employment in the fishing sector, as a result of decreased demand for fish during the epidemic)	The odds of facility-based delivery were 41% lower among women who reported a belief that Ebola was or may be transmitted in health facilities, but not significantly lower among women who reported believing that Ebola was not transmitted in health facilities.
Relevance and importance of the paper for our own systematic review	Paper of some importance for some sections of the review
Other comments or issues to be noted about this paper	

Author(s) and date:	Y. W. Hung, M. R. Law, L. Cheng, S. Abramowitz, L. Alcayna-Stevens, G. Lurton, S. M. Mayaka, R. Olekhnovitch, G. Kyomba, H. Ruton, S. Y. Ramazani and K. A. Grepin
Year	2020
Title of the paper:	Impact of a free care policy on the utilisation of health services during an Ebola outbreak in the Democratic Republic of Congo: an interrupted time-series analysis
Study design	quasi-experimental timeseries analysis
Setting	health facilities
PS	Woman & children
Study location	
Quality appraisal according to the relevant <u>Johanna Briggs Institute tool</u> (please cross out or delete accordingly)	Include
Epidemic of reference:	Ebola
Research methods employed (e.g. qualitative interviews; modelling; surveys; systematic review)	Modelling
Specific lockdown measure investigated in the study (e.g. generic quarantine or unspecified lockdown measure; curfew; stay at home policy; travel restrictions; school closures; market and trade shutdowns; social distancing)	generic quarantine or unspecified lockdown measure
Broad area of impact explored in the study (please cross out or delete as appropriate)	Demand for healthcare / Healthcare seeking behaviour;
Evidence of impact to the general population from lockdown measures (e.g. 10% decrease of disposable income before and after the peak of the epidemic; 30% reduction of hospital visits for maternal services)	Total visits and visits for pneumonia and diarrhoea initially increased more than two-fold relative to the control areas (p<0.001), while institutional deliveries and first antenatal care increased between 20% and 50% (p<0.01). Visits for DTP, fourth antenatal care visits and postnatal care visits were not significantly affected.
Specific evidence of impact on children (e.g. 30% increase of weight during two weeks of implementation of stay at home policy; or: 'calculated 365,000 extra malaria deaths calculated as a consequence of disruption of bed nets distribution)	visit rates increased more than twofold in EVD and FCP health zones (incidence rate ratio (IRR): 2.7, 95%CI: 2.2–3.2, p<0.001) and FCP-only health zones (IRR: 2.7, 95%CI: 2.2–3.1, p<0.001). Following the end of the FCP, the level of total clinic visits dropped by 21% in EVD and FCP health zones (95%CI: 0.65–0.96, p=0.02) and by 18% in FCP-only health zones (95%CI: 0.68–1.0, p=0.05) compared to the FCP period, with no significant change in trend after the FCP ended (EVD and FCP: IRR: 1.0, 95%CI: 0.97–1.1, p=0.26; FCP only: IRR: 1.1, 95%CI: 0.98–1.2, p=0.12); Compared to facilities in control health zones, clinic visits for pneumonia doubled at the beginning of FCP in EVD and FCP health zones (IRR: 2.1, 95%CI: 1.5–2.9, p<0.001).
Specific evidence of impact on women (e.g. 20% reduction of female employment in the fishing sector, as a result of decreased demand for fish during the epidemic)	Maternal Health: Compared to control zones, deliveries at clinics increased in all of the free care policy (FCP) health zones immediately following the implementation of the policy (EVD and FCP: IRR: 1.3, 95% CI: 1.1–1.5, p=0.004; FCP-only: IRR: 1.2, 95% CI: 1.1–1.4, p=0.01), but the increase did not continue over the whole implementation period (EVD and FCP: IRR: 1.0, 95% CI: 0.96–1.1, p=0.83; FCP only: IRR: 0.99, 95% CI: 0.94–1.1, p=0.75).
Relevance and importance of the paper for our own systematic review	Paper of some importance for some sections of the review
Other comments or issues to be noted about this paper	

Author(s) and date:	N. Sharma and H. Vaish
Year	2020
Title of the paper:	Impact of COVID-19 on mental health and physical load on women professionals: an online cross-sectional
	survey
Study design	cross-sectional survey
Setting	
PS	Women
Study location	Congo
Quality appraisal according to the relevant	Exclude
Johanna Briggs Institute tool (please cross out or	Exclude
delete accordingly)	
Epidemic of reference:	Covid-19
Research methods employed (e.g. qualitative	Survey
interviews; modelling; surveys; systematic review)	
Specific lockdown measure investigated in the	generic quarantine or unspecified lockdown measure
study (e.g. generic quarantine or unspecified	
lockdown measure; curfew; stay at home policy;	
travel restrictions; school closures; market and	
trade shutdowns; social distancing)	
Broad area of impact explored in the study	Mental Health
(please cross out or delete as appropriate)	
Evidence of impact to the general population	Mental health was moderately and severely affected in 27.5% and 27% of participants respectively. 34.3%
from lockdown measures (e.g. 10% decrease of	experienced great increase in physical load due to house hold chores during lockdown. 45.81% reported
disposable income before and after the peak of	pain in neck and back region with 36.31% participants reported strain in their eyes sometimes. 15.08%
the epidemic; 30% reduction of hospital visits for	and 8.37% had a tendency to over react in the present situation often and always respectively.
maternal services)	
Specific evidence of impact on children (e.g. 30%	
increase of weight during two weeks of	
implementation of stay at home policy; or: 'calculated 365,000 extra malaria deaths	
calculated 365,000 extra malaria deaths calculated as a consequence of disruption of bed	
nets distribution)	
Specific evidence of impact on women (e.g. 20%	Mental health was moderately and severely affected in 27.5% and 27% of participants respectively. 34.3%
reduction of female employment in the fishing	experienced great increase in physical load due to house hold chores during lockdown. 45.81% reported
sector, as a result of decreased demand for fish	pain in neck and back region with 36.31% participants reported strain in their eyes sometimes. 15.08%
during the epidemic)	and 8.37% had a tendency to over react in the present situation often and always respectively.
Relevance and importance of the paper for our	Secondary paper
own systematic review	
Other comments or issues to be noted about this	
paper	
• •	

Author(s) and date:	M. Ali, G. U. Ahsan, R. Khan, H. R. Khan and A. Hossain
Year	2020
Title of the paper:	Immediate impact of stay-at-home orders to control COVID-19 transmission on mental well-being in
	Bangladeshi adults: Patterns, Explanations, and future directions
Study design	cross-sectional study
Setting	
PS	Women & Men adults
Study location	Bangladeshi
Quality appraisal according to the relevant Johanna Briggs Institute tool (please cross out or	Include
delete accordingly)	
Epidemic of reference:	Covid-19
Research methods employed (e.g. qualitative	Survey
interviews; modelling; surveys; systematic review)	
Specific lockdown measure investigated in the	stay at home policy
study (e.g. generic quarantine or unspecified	
lockdown measure; curfew; stay at home policy;	
travel restrictions; school closures; market and	
trade shutdowns; social distancing)	
Broad area of impact explored in the study	Mental Health;
(please cross out or delete as appropriate)	
Evidence of impact to the general population	The overall mean score for well-being was 42.4, indicating that 51.9% of adults sufered from poor mental
from lockdown measures (e.g. 10% decrease of	health; Te participants who were involved
disposable income before and after the peak of	in business had worse mental health than government
the epidemic; 30% reduction of hospital visits for	employees (decreased by 5.87 units, p=0.01), health care
maternal services)	workers (by 4.98, p≤0.001), and employees of private
Specific evidence of impact on children (e.g. 30%	companies (by 3.31, p=0.02).
increase of weight during two weeks of	
implementation of stay at home policy; or:	
'calculated 365,000 extra malaria deaths	
calculated 365,000 extra maiaria deaths calculated as a consequence of disruption of bed	
nets distribution)	
Specific evidence of impact on women (e.g. 20%	57% of females were depressed; Depression seemed to be heavily skewed towards women,
reduction of female employment in the fishing	raising agonizing concerns. For instance, 57.2% of female participants were in poor mental health (i.e.
sector, as a result of decreased demand for fish	WEMWBS score≤42), whereas for males it was at 48.9%.; Interestingly, the unmarried females appear
during the epidemic)	to have higher well-being scores than the married women (by 3.31, p=0.01).
Relevance and importance of the paper for our	key paper for the review
own systematic review	- Appendix and a second
Other comments or issues to be noted about this	
paper	

Author(s) and date:	X. J. Sun, T. T. Samba, J. Y. Yao, W. W. Yin, L. Xiao, F. Q. Liu, X. Q. Liu, J. K. Zhou, Z. Q. Kou, H. W. Fan, H.
Author(s) and date.	Zhang, A. Williams, P. M. Lansana and Z. D. Yin
Year	2017
Title of the paper:	Impact of the Ebola outbreak on routine immunization in western area, Sierra Leone - a field survey from
Title of the paper.	an Ebola epidemic area
Study design	cross-sectional study
Setting	Children
PS	Sierra Leone
Study location	Orana Econo
Quality appraisal according to the relevant	Include
Johanna Briggs Institute tool (please cross out or	Include
delete accordingly)	
Epidemic of reference:	Ebola
Research methods employed (e.g. qualitative	qualitative interviews
interviews; modelling; surveys; systematic review)	
Specific lockdown measure investigated in the	generic quarantine or unspecified lockdown measure
study (e.g. generic quarantine or unspecified	
lockdown measure; curfew; stay at home policy;	
travel restrictions; school closures; market and	
trade shutdowns; social distancing)	
Broad area of impact explored in the study	Disruption of routine services for mother and child services;
(please cross out or delete as appropriate)	
Evidence of impact to the general population	Measles Vaccine (MV) coverage among age-eligible children was 71.3% (95% confidence interval [CI]:
from lockdown measures (e.g. 10% decrease of	62.1% - 80.4%) and 45.7% (95% CI: 29.2% - 62.2%) before and during the outbreak of EVD, respectively,
disposable income before and after the peak of	and was 56.8% (95% CI: 40.8% - 72.7%) after the campaign. Pentavalent vaccine (Pentavalent3) coverage
the epidemic; 30% reduction of hospital visits for	among age-eligible children was 79.8% (95% CI: 72.6% - 87.0%) and 40.0% (95% CI: 22.5% - 57.5%) before
maternal services)	and during the outbreak of EVD, and was 56.4% (95% CI: 39.1% - 73.4%) after the campaign.
Specific evidence of impact on children (e.g. 30%	In phase 1 (before EVD), the age-eligible, MV-vaccinated rate was 71.3% (95% CI: 62.1% - 80.4%) while in
increase of weight during two weeks of	phase 2 (during EVD), the MV-vaccinated rate was 45.7% (95% CI: 29.2% - 62.2%). Therefore, age-eligible
implementation of stay at home policy; or:	coverage during the EVD outbreak was 25.6 percentage points (95% CI: -44.2 to -7.0 percentage points)
'calculated 365,000 extra malaria deaths calculated as a consequence of disruption of bed	lower than before the EVD outbreak ( $\chi$ 2 = 7.3, P < 0.01).; In phase 1 (before EVD), the age-eligible Pentavalent3- vaccinated coverage was 79.8% (95% CI: 72.6% - 87.0%), while in phase 2 (during EVD),
nets distribution)	Pentavalent3-vaccinated coverage was 79.8% (95% CI: 72.6% - 87.6%), while in phase 2 (dufing evb),  Pentavalent3-vaccinated coverage was 40.0% (95% CI: 22.5% - 57.5%). Therefore, age-eligible coverage
nets distribution)	during the EVD outbreak was 39.8 percentage points (95% CI: -57.8 to -21.8 percentage points) lower
	than before the EVD outbreak ( $\chi$ 2 = 18.8, P < 0.01).
Specific evidence of impact on women (e.g. 20%	Following the MCHW campaign, MV coverage increased to 56.8% (95% CI: 40.8% - 72.7%), but was not
reduction of female employment in the fishing	statistically different than MV coverage during the EVD outbreak ( $\chi$ 2 = 0.9, P > 0.05). Following the
sector, as a result of decreased demand for fish	MCHW campaign, Pentavalent3 coverage increased to 56.3% (95% CI: 39.1% - 73.4%), but was not
during the epidemic)	statistically different than coverage during the EVD outbreak ( $\chi$ 2 = 1.6, P > 0.05)
Relevance and importance of the paper for our	Paper of some importance for some sections of the review
own systematic review	
Other comments or issues to be noted about this	
paper	

Author(s) and date:	G. Quaglio, F. Tognon, L. Finos, D. Bome, S. Sesay, A. Kebbie, F. Di Gennaro, B. S. Camara, C. Marotta, V.
	Pisani, Z. Bangura, D. Pizzol, A. Saracino, W. Mazzucco, S. Jones and G. Putoto
Year	2019
Title of the paper:	Impact of Ebola outbreak on reproductive health services in a rural district of Sierra Leone: a prospective
	observational study
Study design	a prospective observational study
Setting	community health facilities and hospital
PS	Woman & children
Study location	Sierra Leone
Quality appraisal according to the relevant	Include
Johanna Briggs Institute tool (please cross out or	
delete accordingly)	
Epidemic of reference:	Ebola
Research methods employed (e.g. qualitative	survey
interviews; modelling; surveys; systematic review)	
Specific lockdown measure investigated in the	generic quarantine or unspecified lockdown measure
study (e.g. generic quarantine or unspecified	
lockdown measure; curfew; stay at home policy;	
travel restrictions; school closures; market and	
trade shutdowns; social distancing)	
Broad area of impact explored in the study	Disruption of routine services for mother and child services;
(please cross out or delete as appropriate)	
Evidence of impact to the general population	At hospital level, there is a significant difference between trends Ebola versus pre-Ebola for maternal
from lockdown measures (e.g. 10% decrease of	admissions (7, 95%Cl 4 to 11, p<0.001). MDOCs (4, 95%Cl
disposable income before and after the peak of	1 to 7, p=0.006) and institutional deliveries (4, 95%Cl 2 to 6, p=0.001). There is also a negative trend in the
the epidemic; 30% reduction of hospital visits for	transition from Ebola to post-Ebola for maternal admissions (-7, 95%CI -10 to -4, p<0.001), MDOCs (-4,
maternal services)	95%CI –7 to –1, p=0.009) and
,	institutional deliveries (-3, 95%Cl -5 to -1, p=0.001); The differences between trends pre-Ebola versus
	post-Ebola are only significant for paediatric admissions (3, 95%CI 0 to 5, p=0.035).; The differences
	between trends pre-Ebola versus post-Ebola show a negative difference for institutional deliveries (-7,
	95%CI -10 to -4, p<0.001), ANC 1 (-6, 95%CI -10 to -3, p<0.001), ANC 4 (-8, 95%CI -11 to
	-5, p<0.001) and family planning (-85, 95%CI -119 to -51, p<0.001).
Specific evidence of impact on children (e.g. 30%	71 71 00 7
increase of weight during two weeks of	
implementation of stay at home policy; or:	
'calculated 365,000 extra malaria deaths	
calculated as a consequence of disruption of bed	
nets distribution)	
Specific evidence of impact on women (e.g. 20%	At hospital level, there is a significant difference between trends Ebola versus pre-Ebola for maternal
reduction of female employment in the fishing	admissions (7, 95%Cl 4 to 11, p<0.001). MDOCs (4, 95%Cl
sector, as a result of decreased demand for fish	1 to 7, p=0.006) and institutional deliveries (4, 95%Cl 2 to 6, p=0.001). There is also a negative trend in the
during the epidemic)	transition from Ebola to post-Ebola for maternal admissions (-7, 95%CI -10 to -4, p<0.001), MDOCs (-4,
3 F 7	95%CI –7 to –1, p=0.009) and
	institutional deliveries (–3, 95%Cl –5 to –1, p=0.001); The differences between trends pre-Ebola versus
	post-Ebola are only significant for paediatric admissions (3, 95%CI 0 to 5, p=0.035).; The differences
	between trends pre-Ebola versus post-Ebola show a negative difference for institutional deliveries (–7,
	95%CI –10 to –4, p<0.001), ANC 1 (–6, 95%CI –10 to –3, p<0.001), ANC 4 (–8, 95%CI –11 to
	-5, p<0.001) and family planning (-85, 95%Cl -119 to -51, p<0.001).
Relevance and importance of the paper for our	-3, p.0.001) and family planning (-03, 33%c1 -113 to -31, p.0.001).
own systematic review	L Republication of the review
Other comments or issues to be noted about this	
paper	
pupu.	I

Author(s) and date:	S. Yeasmin, R. Banik, S. Hossain, M. N. Hossain, R. Mahumud, N. Salma and M. M. Hossain
Year	2020
Title of the paper:	Impact of COVID-19 pandemic on the mental health of children in Bangladesh: A cross-sectional study
Study design	A cross-sectional study
Setting	·
PS	Children
Study location	Bangladeshi
Quality appraisal according to the relevant	Include
Johanna Briggs Institute tool (please cross out or	
delete accordingly)	
Epidemic of reference:	Covid-19
Research methods employed (e.g. qualitative	Survey
interviews; modelling; surveys; systematic review)	
Specific lockdown measure investigated in the	generic quarantine or unspecified lockdown measure
study (e.g. generic quarantine or unspecified	
lockdown measure; curfew; stay at home policy;	
travel restrictions; school closures; market and	
trade shutdowns; social distancing)	
Broad area of impact explored in the study	Mental Health
(please cross out or delete as appropriate)	
Evidence of impact to the general population	Children were classified into four groups where 43% of child had subthreshold mental disturbances (mean
from lockdown measures (e.g. 10% decrease of	Major Depressive Disorder (MDD)-10; 2.8), 30.5% had mild (mean MDD-10; 8.9), 19.3% suffered
disposable income before and after the peak of the epidemic; 30% reduction of hospital visits for	moderately (mean MDD-10; 15.9), and 7.2% of child suffered from severe disturbances (mean MDD-10; 25.2)
maternal services)	23.2)
Specific evidence of impact on children (e.g. 30%	Results depict that 43% of child had subthreshold mental health disturbances (mean depression: 2.8,
increase of weight during two weeks of	anxiety: 2, and sleeping disorder: 1), 30.5% had mild disturbances (mean depression: 8.9, anxiety: 4.9, and
implementation of stay at home policy; or:	sleeping disorder: 3), 19.3% suffered from moderate disturbances (mean depression: 15.9, anxiety: 4.5, and
'calculated 365,000 extra malaria deaths	and sleeping: 6), and 7.2% suffered from severe disturbances (mean depression: 25.2, anxiety: 13.4, and
calculated as a consequence of disruption of bed	sleeping disorder: 8).
nets distribution)	
Specific evidence of impact on women (e.g. 20%	
reduction of female employment in the fishing	
sector, as a result of decreased demand for fish	
during the epidemic)	
Relevance and importance of the paper for our	Paper of some importance for some sections of the review
own systematic review	
Other comments or issues to be noted about this	
paper	

Author(s) and date:	N. Emmanuel Awucha, O. Chinelo Janefrances, A. Chima Meshach, J. Chiamaka Henrietta, A. Ibilolia Daniel and N. Esther Chidiebere
Year	2020
Title of the paper:	Impact of the COVID-19 Pandemic on Consumers' Access to Essential Medicines in Nigeria
Study design	A cross-sectional study
Setting	
PS	Women and Men
Study location	Nigeria
Quality appraisal according to the relevant	lactude
Johanna Briggs Institute tool (please cross out or	Include
delete accordingly)	
Epidemic of reference:	Covid-19
Research methods employed (e.g. qualitative	Survey
interviews; modelling; surveys; systematic review)	
Specific lockdown measure investigated in the	generic quarantine or unspecified lockdown measure
study (e.g. generic quarantine or unspecified	
lockdown measure; curfew; stay at home policy;	
travel restrictions; school closures; market and	
trade shutdowns; social distancing)	
Broad area of impact explored in the study	ease of access to essential medicines
(please cross out or delete as appropriate)	
Evidence of impact to the general population	The results showed that 35.2% of the respondents managing chronic illnesses had difficulties accessing
from lockdown measures (e.g. 10% decrease of	essential medicines during the COVID-19 lockdown, with 84.0% experiencing deteriorating chronic health
disposable income before and after the peak of	conditions in the light of difficulty in accessing their medicines. The proportion of respondents who
the epidemic; 30% reduction of hospital visits for	sourced for orthodox medicines before COVID-19 lockdown (98.4%) was significantly (P < 0.05) higher
maternal services)	than that of those who sourced for the same during the lockdown (89.0%). Increase in cost of medicines was observed by 77.7% of participants, with 73.9% of respondents living with chronic illness affirming that
	their income was negatively affected by the pandemic.
Specific evidence of impact on children (e.g. 30%	then meane was negatively uncered by the pandemic.
increase of weight during two weeks of	
implementation of stay at home policy; or:	
'calculated 365,000 extra malaria deaths	
calculated as a consequence of disruption of bed	
nets distribution)	
Specific evidence of impact on women (e.g. 20%	For respondents living with chronic conditions, there was an increase in the proportion of those facing
reduction of female employment in the fishing	difficulties to essential medicine access, from 10.6% before the lockdown to 35.2% during the lockdown;
sector, as a result of decreased demand for fish	84.0% experienced a worsening of the chronic conditions, which was significant; Overall, those who had
during the epidemic)	acute illnesses during the lockdown had 72.0% essential medicines accessibility, whereas those with
	chronic conditions had 65.0% accessibility; 77.3% of the respondents observed an increase in medicine
	costs; 84.0% of our respondents experienced deteriorating chronic health conditions in
	the light of difficulty in accessing essential medicines.
Relevance and importance of the paper for our	Paper of some importance for some sections of the review
own systematic review	
Other comments or issues to be noted about this	No pecific, thus we assume women as part of the results
paper	

Author(s) and date:	P. A. McQuilkin, K. Udhayashankar, M. Niescierenko and L. Maranda
Year	2017
Title of the paper:	Health-Care Access during the Ebola Virus Epidemic in Liberia
Study design	Community-based survey
Setting	Community based survey
PS	Women and Men
- 1 - 2	
Study location	Liberia  Seek further information
Quality appraisal according to the relevant	Seek further information
Johanna Briggs Institute tool (please cross out or	
delete accordingly)	
Epidemic of reference:	Ebola
Research methods employed (e.g. qualitative	Survey
interviews; modelling; surveys; systematic review)	
Specific lockdown measure investigated in the	generic quarantine or unspecified lockdown measure
study (e.g. generic quarantine or unspecified	
lockdown measure; curfew; stay at home policy;	
travel restrictions; school closures; market and	
trade shutdowns; social distancing)	
Broad area of impact explored in the study	Health-Care Access
(please cross out or delete as appropriate)	
Evidence of impact to the general population	more than half (67%) of urban respondents and 46% of rural respondents stated that it was very difficult
from lockdown measures (e.g. 10% decrease of	or impossible to access health care during the epidemic.; For those who sought care at government
disposable income before and after the peak of	hospitals and were unable to receive it, the major barriers were closure of facilities (50%), HCWs refusing
the epidemic; 30% reduction of hospital visits for	to see patients (42%), and fear of referral to EVD treatment units (2%).
maternal services)	
Specific evidence of impact on children (e.g. 30%	
increase of weight during two weeks of	
implementation of stay at home policy; or:	
'calculated 365,000 extra malaria deaths	
calculated as a consequence of disruption of bed	
nets distribution)	
Specific evidence of impact on women (e.g. 20%	In urban areas, only 20–30% of patients seeking care during the epidemic received care, and in rural
reduction of female employment in the fishing	areas, only 70–80% of those seeking care were able to access it.; In urban areas, only approximately 25%
sector, as a result of decreased demand for fish	of patients who sought care received it. Care for pediatric patients (20.7%) and prenatal (22.9%) and
during the epidemic)	obstetric care (22.3%) was especially challenging in urban areas.
Relevance and importance of the paper for our	Secondary paper
own systematic review	
Other comments or issues to be noted about this	
paper	

Author(s) and date:	S. Chandir, D. A. Siddiqi, M. Mehmood, H. Setayesh, M. Siddique, A. Mirza, R. Soundardjee, V. K. Dharma, M. T. Shah, S. Abdullah, M. A. Akhter, A. Ali Khan and A. J. Khan
Year	2020
Title of the paper:	Impact of COVID-19 pandemic response on uptake of routine immunizations in Sindh, Pakistan: An analysis of provincial electronic immunization registry data
Study design	A cross-sectional study
Setting	
PS	Children
Study location	Pakistan
Quality appraisal according to the relevant  Johanna Briggs Institute tool (please cross out or delete accordingly)	Include
Epidemic of reference:	Covid-19
Research methods employed (e.g. qualitative interviews; modelling; surveys; systematic review)	Survey
Specific lockdown measure investigated in the study (e.g. generic quarantine or unspecified lockdown measure; curfew; stay at home policy; travel restrictions; school closures; market and trade shutdowns; social distancing)	generic quarantine or unspecified lockdown measure
Broad area of impact explored in the study (please cross out or delete as appropriate)	Disruption of routine services for mother and child services;
Evidence of impact to the general population from lockdown measures (e.g. 10% decrease of disposable income before and after the peak of the epidemic; 30% reduction of hospital visits for maternal services)	There was a 52.5% decline in the daily average total number of vaccinations administered during lockdown compared to baseline. The highest decline was seen for Bacille Calmette Guérin (BCG) (40.6% (958/2360) immunization at fixed sites. Around 8438 children/day were missing immunization during the lockdown
Specific evidence of impact on children (e.g. 30% increase of weight during two weeks of implementation of stay at home policy; or: 'calculated 365,000 extra malaria deaths calculated as a consequence of disruption of bed nets distribution)	Pentavalent-3 (penta-3) immunization rates were higher in infants born in hospitals (RR: 1.09; 95% CI: 1.04–1.15) and those with mothers having higher education (RR: 1.19–1.50; 95% CI: 1.13–1.65). Likelihood of penta-3 immunization was reduced by 5% for each week of delayed enrollment into the immunization program.; Children immunized during lockdown, as compared to baseline, had a higher proportion of facility-based births, more caregivers had provided contact numbers (33.2% vs. 27.4%, p-value 0.01; 95% CI: 5.47–6.13), and the mean age at BCG vaccination was lower (4.3 vs. 6.3 weeks, pvalue 0.01; 95% CI: 1.93–2.07). Additionally, more children with higher maternal education, (in the category 9 years and above) were enrolled during lockdown as compared to baseline (pvalue 0.01; 95% CI: 1.01–1.45). Daily average vaccinator attendance was 7.4% (p-value < 0.0001; 95% CI: 5.29–9.51) lower during the lockdown compared to baseline (78.8% (79,252/100,600 person days) vs. 86.2% (312,386/362,551 person days) respectively).
Specific evidence of impact on women (e.g. 20% reduction of female employment in the fishing sector, as a result of decreased demand for fish during the epidemic)	The reduction in mean proportion of vaccinators who attended work during the lockdown compared with baseline was higher for female vaccinators (13.7%; 95% CI: 12.9–14.5) vs male vaccinators (6.3%; 95% CI: 6.0–6.6).
Relevance and importance of the paper for our own systematic review	Paper of some importance for some sections of the review
Other comments or issues to be noted about this paper	

Title of the paper:  Gender differentiated economic responses to crises in developing countries: insights for COVID-19 recovery policies  Study design  NA  Study location  Quality appraisal according to the relevant Iohanna Brings Institute tool (please cross out or delete accordingly)  Epidemic of reference:  Research methods employed (e.g. qualitative interviews; modelling; surveys; systematic review)  Specific lockdown measure investigated in the study (e.g. generic quarantine or unspecified lockdown measure; curfew; stay at home policy; travel restrictions; school closures; market and trade shutdowns; social distancing)  Broad area of impact to the general population from lockdown measures (e.g. 10% decrease of disposable income before and after the peak of the epidemic; 30% reduction of hospital visits for maternal services)  Specific evidence of impact to children (e.g. 30% interease of weight during two weeks of implementation of stay at home policy; or: 'calculated 365,000 extra malaria deaths calculated as a consequence of disruption of bed nets distribution)  Specific evidence of impact on women (e.g. 20% reduction of female employment in the fishing sector, as a result of decreased demand for fish during the epidemic; 30 sectors as a result of decreased demand for fish during the epidemic)  Distribution of stay at home policy; or: 'calculated 365,000 extra malaria deaths calculated as a consequence of disruption of bed nets distribution)  Specific evidence of impact on women (e.g. 20% reduction of female employment in the fishing sector, as a result of decreased demand for fish during the epidemic)  Exclude of the proper for our own systematic review  Other comments or issues to be noted about this paper	Author(s) and date:	Mohapatra S
Study design Setting NA Setting NA Women and Men Study location Quality appraisal according to the relevant Johanna Briggs Institute tool (please cross out or delete accordingly) Epidemic of reference: Covid-19 Research methods employed (e.g. qualitative interviews; modelling; surveys; systematic review) Specific lockdown measure investigated in the study (e.g. generic quarantine or unspecified lockdown measure; curfew; stay at home policy; travel restrictions; school closures; market and trade shutdowns, social distancing) Broad area of impact explored in the study (please cross out or delete as appropriate) Evidence of impact to the general population from lockdown measures (e.g. 10% decrease of disposable income before and after the peak of the epidemic; 30% reduction of hospital visits for maternal services) Specific evidence of impact on children (e.g. 30% increase of weight during two weeks of implementation of stay at home policy; or: 'calculated 365,000 extra malaria deaths calculated as a consequence of disruption of bed nets distribution)  Specific evidence of impact on women (e.g. 20% reduction of female employment in the fishing sector, as a result of decreased demand for fish during the epidemic) Relevance and importance of the paper for our owns systematic review Other comments or issues to be noted about this	Year	2020
Setting NA  Setting NA  Women and Men  Study location NA  Quality appraisal according to the relevant Johanna Brings Institute tool (please cross out or delete accordingly)  Epidemic of reference: Covid-19  Research methods employed (e.g. qualitative interviews; modelling; surveys; systematic review)  Specific lockdown measure investigated in the study (e.g. generic quarantine or unspecified lockdown measure; curfew; stay at home policy, travel restrictions; school closures; market and trade shutdowns; social distancing)  Broad area of impact explored in the study (please cross out or delete as appropriate)  Evidence of impact to the general population from lockdown measures (e.g. 10% decrease of disposable income before and after the peak of the epidemic; 30% reduction of hospital visits for maternal services)  Specific evidence of impact on children (e.g. 30% increase of weight during two weeks of implementation of stay at home policy; or: 'calculated as a consequence of disruption of bed nets distribution)  Specific evidence of impact on women (e.g. 20% reduction of female employment in the fishing sector, as a result of decreased demand for fish during the epidemic)  Relevance and importance of the paper for our ownsystematic review  Other comments or issues to be noted about this	Title of the paper:	Gender differentiated economic responses to crises in developing countries: insights for COVID-19
Setting   NA   Women and Men   Women and Men   NA   Women and Men   NA   Women and Men   NA   Quality appraisal according to the relevant   Odeleta accordingly   Epidemic of reference:   Covid-19   Exclude   Odeleta accordingly   Covid-19   Modelling   Model		recovery policies
Study location  Study location  NA  NA  Na  Research methods employed (e.g. qualitative specific lockdown measure investigated in the study (e.g. generic quarantine or unspecified lockdown measure; curfew, stay at home policy; travel restrictions; school closures; market and trade shutdowns; social distancing)  Fividence of impact to the general population from lockdown measures (e.g. 10% decrease of disposable income before and after the peak of the epidemic; 30% reduction of hospital visits for maternal services)  Specific evidence of impact on children (e.g. 30% increase of weight during two weeks of implementation of stay at home policy; or: 'calculated 365,000 extra malaria deaths calculated as a consequence of disruption of bed nets distribution)  Specific evidence of impact on women (e.g. 20% reduction of female employment in the fishing sector, as a result of decreased demand for fish during the epidemic)  Relevance and importance of the paper for our own systematic review  Other comments or issues to be noted about this	Study design	NA
Study location  Quality appraisal according to the relevant Johanna Briggs Institute tool (please cross out or delete accordingly)  Epidemic of reference:  Covid-19  Modelling	Setting	NA
Quality appraisal according to the relevant Johanna Briggs Institute tool (please cross out or delete accordingly)  Epidemic of reference:  Research methods employed (e.g. qualitative interviews; modelling; surveys; systematic review)  Specific lockdown measure investigated in the study (e.g. generic quarantine or unspecified lockdown measure; curfew, stay at home policy; travel restrictions; school closures; market and trade shutdowns; social distancing)  Broad area of impact to the general population from lockdown measures (e.g. 10% decrease of disposable income before and after the peak of the epidemic; 30% reduction of hospital visits for maternal services)  Specific evidence of impact on children (e.g. 30% increase of weight during two weeks of implementation of stay at home policy; or calculated 36,5000 extra malaria deaths calculated as a consequence of disruption of bed nets distribution)  Specific evidence of impact on women (e.g. 20% reduction of female employment in the fishing sector, as a result of decreased demand for fish during the epidemic)  Relevance and importance of the paper for our own systematic review  Other comments or issues to be noted about this	PS	Women and Men
Johanna Briggs Institute tool (please cross out or delete accordingly)	Study location	NA
Epidemic of reference:  Research methods employed (e.g. qualitative interviews; modelling; survey; systematic review)  Specific lockdown measure investigated in the study (e.g. generic quarantine or unspecified lockdown measure; curfew; stay at home policy; travel restrictions; school closures; market and trade shutdowns; social distancing)  Broad area of impact explored in the study (please cross out or delete as appropriate)  Evidence of impact to the general population from lockdown measures (e.g. 10% decrease of disposable income before and after the peak of the epidemic, 30% reduction of hospital visits for instance, applied to the Indian context, the total number of female workers according to the 2011 census is about 150 million. A 3 percentage point drop implies that, following a GDP contraction, there are 4.5 million jobs lost 5 years after the shock over the previous year.  Specific evidence of impact on children (e.g. 30% increase of weight during two weeks of implementation of stay at home policy; or: 'calculated 365,000 extra malaria deaths calculated as a consequence of disruption of bed nest distribution)  Specific evidence of impact on women (e.g. 20% reduction of female employment in the fishing sector, as a result of decreased demand for fish during the epidemic)  Relevance and importance of the paper for our own systematic review  Other comments or issues to be noted about this	Quality appraisal according to the relevant	Exclude
Epidemic of reference:  Research methods employed (e.g. qualitative interviews; modelling; surveys; systematic review)  Specific lockdown measure investigated in the study (e.g. generic quarantine or unspecified lockdown measure; curiew; stay at home policy; travel restrictions; school closures; market and trade shutdowns; social distancing)  Broad area of impact explored in the study (please cross out or delete as appropriate)  Evidence of impact to the general population from lockdown measures (e.g. 10% decrease of disposable income before and after the peak of the epidemic; 30% reduction of hospital visits for maternal services)  Specific evidence of impact on children (e.g. 30% increase of weight during two weeks of implementation of stay at home policy; or: 'calculated 365,000 extra malaria deaths calculated as a consequence of disruption of bed nest distribution)  Specific evidence of impact on women (e.g. 20% reduction of female employment in the fishing sector, as a result of decreased demand for fish during the epidemic)  Relevance and importance of the paper for our own systematic review  Other comments or issues to be noted about this	Johanna Briggs Institute tool (please cross out or	
Research methods employed (e.g. qualitative interviews; modelling; surveys; systematic review)  Specific lockdown measure investigated in the study (e.g. generic quarantine or unspecified lockdown measure; curfew; stay at home policy; travel restrictions; school closures; market and trade shutdowns; social distancing)  Broad area of impact explored in the study (please cross out or delete as appropriate)  Evidence of impact to the general population from lockdown measures (e.g. 10% decrease of disposable income before and after the peak of the epidemic; 30% reduction of hospital visits for maternal services)  Specific evidence of impact on children (e.g. 30% increase of weight during two weeks of implementation of stay at home policy; or: 'calculated 365,000 extra malaria deaths calculated as a consequence of disruption of bed nets distribution)  Specific evidence of impact on women (e.g. 20% reduction of female employment in the fishing sector, as a result of decreased demand for fish during the epidemic)  Relevance and importance of the paper for our own systematic review  Other comments or issues to be noted about this	delete accordingly)	
Interviews; modelling; surveys; systematic review)  Specific lockdown measure investigated in the study (e.g. generic quarantine or unspecified lockdown measure; curfew; stay at home policy; travel restrictions; school closures; market and trade shutdowns; social distancting)  Broad area of impact explored in the study (please cross out or delete as appropriate)  Evidence of impact to the general population from lockdown measures (e.g. 10% decrease of disposable income before and after the peak of the epidemic; 30% reduction of hospital visits for maternal services)  An economic growth shock creates a sharp decline in female employment by 3 percentage points within the first 5 years after the shock (Fig. 6a). The magnitudes of the employment declines are large. For instance, applied to the Indian context, the total number of female workers according to the 2011 census is about 150 million. A 3 percentage point drop implies that, following a GDP contraction, there are 4.5 million jobs lost 5 years after the shock over the previous year.  Specific evidence of impact on children (e.g. 30% increase of weight during two weeks of implementation of stay at home policy; or: (Calculated 365,000 extra malaria deaths calculated as a consequence of disruption of bed nets distribution)  Specific evidence of impact on women (e.g. 20% reduction of female employment in the fishing sector, as a result of decreased demand for fish during the epidemic)  Relevance and importance of the paper for our own systematic review  Other comments or issues to be noted about this	Epidemic of reference:	Covid-19
Specific lockdown measure investigated in the study (e.g. generic quarantine or unspecified lockdown measure; curfew; stay at home policy; travel restrictions; school closures; market and trade shutdowns; social distancing)  Broad area of impact explored in the study (please cross out or delete as appropriate)  Evidence of impact to the general population from lockdown measures (e.g. 10% decrease of disposable income before and after the peak of the epidemic; 30% reduction of hospital visits for maternal services)  Specific evidence of impact on children (e.g. 30% increase of weight during two weeks of implementation of stay at home policy; or: 'calculated a65,000 extra malaria deaths calculated as a consequence of disruption of bed nets distribution)  Specific evidence of fimpact on women (e.g. 20% reduction of female employment in the fishing sector, as a result of decreased demand for fish during the epidemic)  Relevance and importance of the paper for our own systematic review  Other comments or issues to be noted about this	Research methods employed (e.g. qualitative	Modelling
study (e.g. generic quarantine or unspecified lockdown measure; curfew; stay at home policy; travel restrictions; school closures; market and trade shutdowns; social distancing)  Broad area of impact explored in the study (please cross out or delete as appropriate)  Evidence of impact to the general population from lockdown measures (e.g. 10% decrease of disposable income before and after the peak of the epidemic; 30% reduction of hospital visits for maternal services)  Specific evidence of impact on children (e.g. 30% increase of weight during two weeks of implementation of stay at home policy; or: ('alculated 365,000 extra malaria deaths calculated as a consequence of disruption of bed nets distribution)  Specific evidence of impact on women (e.g. 20% reduction of female employment in the fishing sector, as a result of decreased demand for fish during the epidemic)  Relevance and importance of the paper for our own systematic review  Other comments or issues to be noted about this	interviews; modelling; surveys; systematic review)	
lockdown measure; curfew; stay at home policy; travel restrictions; school closures; market and trade shutdowns; social distancing)  Broad area of impact explored in the study (please cross out or delete as appropriate)  Evidence of impact to the general population from lockdown measures (e.g. 10% decrease of disposable income before and after the peak of the epidemic; 30% reduction of hospital visits for maternal services)  Specific evidence of impact on children (e.g. 30% increase of weight during two weeks of implementation of stay at home policy; or: 'calculated 365,000 extra malaria deaths calculated as a consequence of disruption of bed nets distribution)  Specific evidence of impact on women (e.g. 20% reduction of female employment in the fishing sector, as a result of decreased demand for fish during the epidemic)  Exclude  Other comments or issues to be noted about this	, ,	NA .
travel restrictions; school closures; market and trade shutdowns; social distancing)  Broad area of impact explored in the study (please cross out or delete as appropriate)  Evidence of impact to the general population from lockdown measures (e.g. 10% decrease of disposable income before and after the peak of the epidemic; 30% reduction of hospital visits for maternal services)  Specific evidence of impact on children (e.g. 30% increase of weight during two weeks of implementation of stay at home policy; or: 'calculated 365,000 extra malaria deaths calculated as a consequence of disruption of bed nets distribution)  Specific evidence of impact on women (e.g. 20% reduction of female employment in the fishing sector, as a result of decreased demand for fish during the epidemic)  Relevance and importance of the paper for our own systematic review  Other comments or issues to be noted about this		
trade shutdowns; social distancing)  Broad area of impact explored in the study (please cross out or delete as appropriate)  Evidence of impact to the general population from lockdown measures (e.g. 10% decrease of disposable income before and after the peak of the epidemic; 30% reduction of hospital visits for maternal services)  Specific evidence of impact on women (e.g. 20% reduction of female employment of bed nest distribution)  Specific evidence of impact on women (e.g. 20% reduction of female employment in the fishing sector, as a result of decreased demand for fish during the epidemic)  Relevance and importance of the paper for our own systematic review  Other comments or issues to be noted about this		
Broad area of impact explored in the study (please cross out or delete as appropriate)  Evidence of impact to the general population from lockdown measures (e.g. 10% decrease of disposable income before and after the peak of the epidemic; 30% reduction of hospital visits for maternal services)  Specific evidence of impact on children (e.g. 30% increase of weight during two weeks of implementation of stay at home policy; or: 'calculated as a consequence of disruption of bed nets distribution)  Specific evidence of impact on women (e.g. 20% reduction of female employment the fishing sector, as a result of decreased demand for fish during the epidemic)  RA economic growth shock creates a sharp decline in female employment by 3 percentage points within the first 5 years after the shock (Fig. 6a). The magnitudes of the employment declines are large. For instance, applied to the Indian context, the total number of female workers according to the 2011 census is about 150 million. A 3 percentage point drop implies that, following a GDP contraction, there are 4.5 million jobs lost 5 years after the shock over the previous year.  Specific evidence of impact on women (e.g. 20% reduction of female employment declines are large. For instance, applied to the Indian context, the total number of female workers according to the 2011 census is about 150 million. A 3 percentage point drop implies that, following a GDP contraction, there are 4.5 million jobs lost 5 years after the shock over the previous year.  Sectific evidence of impact on women (e.g. 20% reduction of female employment declines are large. For instance, applied to the Indian context, the total number of female employment declines are large. For instance, applied to the Indian context, the total number of female employment declines are large. For instance, applied to the Indian context, the total number of female employment declines are large. For instance, applied to the Indian context, the total number of female employment declines are large. For instance, appli		
(please cross out or delete as appropriate)  Evidence of impact to the general population from lockdown measures (e.g. 10% decrease of disposable income before and after the peak of the epidemic; 30% reduction of hospital visits for maternal services)  Specific evidence of impact on children (e.g. 30% increase of weight during two weeks of implementation of stay at home policy, or: 'calculated 365,000 extra malaria deaths calculated as a consequence of disruption of bed nets distribution)  Specific evidence of impact on women (e.g. 20% reduction of female employment in the fishing sector, as a result of decreased demand for fish during the epidemic)  Relevance and importance of the paper for our own systematic review  Other comments or issues to be noted about this	, 3,	
Evidence of impact to the general population from lockdown measures (e.g. 10% decrease of disposable income before and after the peak of the epidemic; 30% reduction of hospital visits for maternal services)  Specific evidence of impact on children (e.g. 30% increase of weight during two weeks of implementation of stay at home policy; or: 'calculated 365,000 extra malaria deaths calculated as a consequence of disruption of bed nets distribution)  Specific evidence of impact on women (e.g. 20% reduction of female employment in the fishing sector, as a result of decreased demand for fish during the epidemic)  Relevance and importance of the paper for our own systematic review  An economic growth shock creates a sharp decline in female employment by 3 percentage points within the fishock (Fig. 6a). The magnitudes of the employment declines are large. For instance, applied to the Indian context, the total number of female workers according to the 2011 census is about 150 million. A 3 percentage point drop implies that, following a GDP contraction, there are 4.5 million jobs lost 5 years after the shock over the previous year.  Specific evidence of impact on woweeks of implementation of stay at home policy; or: 'calculated as a consequence of disruption of bed nets distribution)  Specific evidence of impact on women (e.g. 20% reduction of female employment in the fishing sector, as a result of decreased demand for fish during the epidemic)  Relevance and importance of the paper for our own systematic review  Other comments or issues to be noted about this		NA
the first 5 years after the shock (Fig. 6a). The magnitudes of the employment declines are large. For instance, applied to the Indian context, the total number of female workers according to the 2011 census is about 150 million. A 3 percentage point drop implies that, following a GDP contraction, there are 4.5 million jobs lost 5 years after the shock over the previous year.  Specific evidence of impact on children (e.g. 30% increase of weight during two weeks of implementation of stay at home policy, or: 'calculated 365,000 extra malaria deaths calculated as a consequence of disruption of bed nets distribution)  Specific evidence of impact on women (e.g. 20% reduction of female employment in the fishing sector, as a result of decreased demand for fish during the epidemic)  Relevance and importance of the paper for our own systematic review  Other comments or issues to be noted about this		
disposable income before and after the peak of the epidemic; 30% reduction of hospital visits for maternal services)  Specific evidence of impact on children (e.g. 30% implementation of stay at home policy; or: 'calculated 365,000 extra malaria deaths calculated as a consequence of disruption of bed nets distribution)  Specific evidence of impact on women (e.g. 20% reduction of female employment in the fishing sector, as a result of decreased demand for fish during the epidemic)  Relevance and importance of the paper for our own systematic review  Other comments or issues to be noted about this		
the epidemic; 30% reduction of hospital visits for maternal services)  Specific evidence of impact on children (e.g. 30% increase of weight during two weeks of implementation of stay at home policy; or: 'calculated 365,000 extra malaria deaths calculated as a consequence of disruption of bed nets distribution)  Specific evidence of impact on women (e.g. 20% reduction of female employment in the fishing sector, as a result of decreased demand for fish during the epidemic)  Relevance and importance of the paper for our own systematic review  Other comments or issues to be noted about this		
maternal services)  Specific evidence of impact on children (e.g. 30% increase of weight during two weeks of implementation of stay at home policy; or: 'calculated 365,000 extra malaria deaths calculated as a consequence of disruption of bed nets distribution)  Specific evidence of impact on women (e.g. 20% reduction of female employment in the fishing sector, as a result of decreased demand for fish during the epidemic)  Relevance and importance of the paper for our own systematic review  Other comments or issues to be noted about this	l .	
Specific evidence of impact on children (e.g. 30% increase of weight during two weeks of implementation of stay at home policy; or:  'calculated 365,000 extra malaria deaths calculated as a consequence of disruption of bed nets distribution)  Specific evidence of impact on women (e.g. 20% reduction of female employment in the fishing sector, as a result of decreased demand for fish during the epidemic)  Relevance and importance of the paper for our own systematic review  Other comments or issues to be noted about this	1	
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implementation of stay at home policy; or:  'calculated 365,000 extra malaria deaths calculated as a consequence of disruption of bed nets distribution)  Specific evidence of impact on women (e.g. 20% reduction of female employment in the fishing sector, as a result of decreased demand for fish during the epidemic)  Relevance and importance of the paper for our own systematic review  Other comments or issues to be noted about this		
'calculated 365,000 extra malaria deaths calculated as a consequence of disruption of bed nets distribution)  Specific evidence of impact on women (e.g. 20% reduction of female employment in the fishing sector, as a result of decreased demand for fish during the epidemic)  Relevance and importance of the paper for our own systematic review  Other comments or issues to be noted about this	0 0	
calculated as a consequence of disruption of bed nets distribution)  Specific evidence of impact on women (e.g. 20% reduction of female employment in the fishing sector, as a result of decreased demand for fish during the epidemic)  Relevance and importance of the paper for our own systematic review  Other comments or issues to be noted about this		
nets distribution)  Specific evidence of impact on women (e.g. 20% reduction of female employment in the fishing sector, as a result of decreased demand for fish during the epidemic)  Relevance and importance of the paper for our own systematic review  Other comments or issues to be noted about this		
Specific evidence of impact on women (e.g. 20% reduction of female employment in the fishing sector, as a result of decreased demand for fish during the epidemic)  Relevance and importance of the paper for our own systematic review  Other comments or issues to be noted about this	· · · · · · · · · · · · · · · · · · ·	
reduction of female employment in the fishing sector, as a result of decreased demand for fish during the epidemic)  Relevance and importance of the paper for our own systematic review  Other comments or issues to be noted about this	·	
sector, as a result of decreased demand for fish during the epidemic)  Relevance and importance of the paper for our own systematic review  Other comments or issues to be noted about this		
during the epidemic)  Relevance and importance of the paper for our own systematic review  Other comments or issues to be noted about this		
Relevance and importance of the paper for our own systematic review  Other comments or issues to be noted about this	,	
own systematic review Other comments or issues to be noted about this		Exclude
paper	Other comments or issues to be noted about this	
	paper	

Author(s) and date:	J. Juan, M. M. Gil, Z. Rong, Y. Zhang, H. Yang and L. C. Poon
Year	2020
Title of the paper:	Effect of coronavirus disease 2019 (COVID-19) on maternal, perinatal and neonatal outcome: systematic
	review
Study design	systematic review
Setting	
PS	Women
Study location	
Quality appraisal according to the relevant <u>Johanna Briggs Institute tool</u> (please cross out or	Include
delete accordingly)	0.1140
Epidemic of reference:	Covid-19
Research methods employed (e.g. qualitative interviews; modelling; surveys; systematic review)	Sstematic review
Specific lockdown measure investigated in the study (e.g. generic quarantine or unspecified lockdown measure; curfew; stay at home policy; travel restrictions; school closures; market and trade shutdowns; social distancing)	generic quarantine or unspecified lockdown measure
Broad area of impact explored in the study (please cross out or delete as appropriate)	The effect of COVID-19 on Women Health
Evidence of impact to the general population from lockdown measures (e.g. 10% decrease of disposable income before and after the peak of the epidemic; 30% reduction of hospital visits for maternal services)	Women: The mostcommon symptoms at presentation were fever, cough, dyspnea/shortness of breath, fatigue and myalgia. Therate of severe pneumonia reported amongst the case seriesranged from 0% to 14%, with the majority of the casesrequiring admission to the intensive care unit. Almostall cases from the case series had positive computed to monography chest findings. All six and 22 cases thathad nucleic-acid testing in vaginal mucus and breastmilk samples, respectively, were negative for severe acuterespiratory syndrome coronavirus 2 (SARS-CoV-2). Onlyfour cases of spontaneous miscarriage or termination were reported. I
Specific evidence of impact on children (e.g. 30% increase of weight during two weeks of implementation of stay at home policy; or: 'calculated 365,000 extra malaria deaths calculated as a consequence of disruption of bed nets distribution)	
Specific evidence of impact on women (e.g. 20% reduction of female employment in the fishing sector, as a result of decreased demand for fish during the epidemic)	In the consecutive case series, 219/295 womenhad delivered at the time of reporting and 78% of themhad Cesarean section. The gestational age at deliveryranged from 28 to 41 weeks. Apgar scores at both 1 and5 min ranged from 7 to 10. Only eight neonates hadbirth weight < 2500 g and nearly one-third of neonateswere transferred to the neonatal intensive care unit. Therewas one case of neonatal asphyxia and death. In 155neonates that had nucleic-acid testing in throat swap, all, except three cases, were negative for SARS-CoV-2. Therewere no cases of maternal death in the eight consecutivecase series. Seven maternal deaths, four intrauterine fetaldeaths (one with twin pregnancy) and two neonatal deaths(twin pregnancy) were reported in a non-consecutive caseseries of nine cases with severe COVID-19. In the casereports, two maternal deaths, one neonatal death and twocases of neonatal SARS-CoV-2 infection were reported
Relevance and importance of the paper for our own systematic review	Paper of some importance for some sections of the review
Other comments or issues to be noted about this paper	

Author(s) and date:	K. Dutta, R. Mukherjee, D. Sen and S. Sahu
Year	2020
Title of the paper:	Effect of COVID-19 lockdown on sleep behavior and screen exposure time: an observational study among
	Indian school children
Study design	Not available
Setting	Not available
PS	Not available
Study location	Not available
Quality appraisal according to the relevant	Not available
Johanna Briggs Institute tool (please cross out or	Not available
delete accordingly)	
Epidemic of reference:	Not available
Research methods employed (e.g. qualitative	Not available
interviews; modelling; surveys; systematic review)	
Specific lockdown measure investigated in the	Not available
study (e.g. generic quarantine or unspecified	
lockdown measure; curfew; stay at home policy;	
travel restrictions; school closures; market and	
trade shutdowns; social distancing)	
Broad area of impact explored in the study	Not available
(please cross out or delete as appropriate)	
Evidence of impact to the general population	Not available
from lockdown measures (e.g. 10% decrease of	
disposable income before and after the peak of	
the epidemic; 30% reduction of hospital visits for	
maternal services)	
Specific evidence of impact on children (e.g. 30%	Not available
increase of weight during two weeks of	
implementation of stay at home policy; or:	
'calculated 365,000 extra malaria deaths	
calculated as a consequence of disruption of bed	
nets distribution)	
Specific evidence of impact on women (e.g. 20%	Not available
reduction of female employment in the fishing sector, as a result of decreased demand for fish	
during the epidemic)  Relevance and importance of the paper for our	Not available
own systematic review	Not available
Other comments or issues to be noted about this	This website is currently unavailable due to technical difficulties, which we are working to fix. We
	apologize for this downtime and hope to restore access to the site as soon as possible.
paper	apologize for this downthine and hope to restore access to the site as soon as possible.

Author(s) and date:	A. Ammar, M. Brach, K. Trabelsi, H. Chtourou, O. Boukhris, L. Masmoudi, B. Bouaziz, E. Bentlage, D. How, M. Ahmed, P. Müller, N. Müller, A. Aloui, O. Hammouda, L. L. Paineiras-Domingos, A. Braakman-Jansen, C. Wrede, S. Bastoni, C. S. Pernambuco, L. Mataruna, M. Taheri, K. Irandoust, A. Khacharem, N. L. Bragazzi, K. Chamari, J. M. Glenn, N. T. Bott, F. Gargouri, L. Chaari, H. Batatia, G. M. Ali, O. Abdelkarim, M. Jarraya, K. El Abed, N. Souissi, L. Van Gemert-Pijnen, B. L. Riemann, L. Riemann, W. Moalla, J. Gómez-Raja, M. Epstein, R. Sanderman, S. V. W. Schulz, A. Jerg, R. Al-Horani, T. Mansi, M. Jmail, F. Barbosa, F. Ferreira-Santos, B. Šimuni?, R. Pišot, A. Gaggioli, S. J. Bailey, J. M. Steinacker, T. Driss, A. Hoekelmann and EC.
	Consortium
Year	2020
Title of the paper:	Effects of COVID-19 home confinement on eating behaviour and physical activity: Results of the ECLB-COVID19 international online survey
Study design	Onlie Survey
Setting	Onlie Survey
PS	Women and Men
Study location	worldiwde
Quality appraisal according to the relevant <u>Johanna Briggs Institute tool</u> (please cross out or delete accordingly)	Include
Epidemic of reference:	Covid-19
Research methods employed (e.g. qualitative	Survey
interviews; modelling; surveys; systematic review)	
Specific lockdown measure investigated in the study (e.g. generic quarantine or unspecified lockdown measure; curfew; stay at home policy; travel restrictions; school closures; market and trade shutdowns; social distancing)	generic quarantine or unspecified lockdown measure
Broad area of impact explored in the study (please cross out or delete as appropriate)	home confinement on eating behaviour and physical activity:
Evidence of impact to the general population from lockdown measures (e.g. 10% decrease of disposable income before and after the peak of the epidemic; 30% reduction of hospital visits for maternal services)	The COVID-19 home confinement had a negative effect on all PA intensity levels (vigorous, moderate, walking and overall). Additionally, daily sitting time increased from 5 to 8 h per day. Food consumption and meal patterns (the type of food, eating out of control, snacks between meals, number of main meals) were more unhealthy during confinement, with only alcohol binge drinking decreasing significantly
Specific evidence of impact on children (e.g. 30% increase of weight during two weeks of implementation of stay at home policy; or: 'calculated 365,000 extra malaria deaths calculated as a consequence of disruption of bed nets distribution)	
Specific evidence of impact on women (e.g. 20% reduction of female employment in the fishing sector, as a result of decreased demand for fish during the epidemic)	The number of days/week and minutes/day of vigorous intensity PA during, compared to before, home confinement decreased by 22.7% ( $t$ = 7.75, $p$ < 0.001, $d$ = 0.374) and 33.1% ( $t$ = 9.75 $p$ < 0.001, $d$ = 0.542), respectively. Additionally, MET values of vigorous intensity PA were 36.9% lower during, compared to before, home confinement ( $t$ = 6.68, $p$ < 0.001, $d$ = 0.315).
Relevance and importance of the paper for our own systematic review	secondary paper
Other comments or issues to be noted about this paper	

Author(s) and date:	G. Li, D. Tang, B. Song, C. Wang, S. Qunshan, C. Xu, H. Geng, H. Wu, X. He and Y. Cao
Year	S. E., D. Tang, D. Jong, C. Wang, J. Quishan, C. Au, H. Geng, H. Wu, A. He and T. Cao
Title of the paper:	Impact of the COVID-19 Pandemic on Partner Relationships and Sexual and Reproductive Health:
Title of the paper.	Cross-Sectional, Online Survey Study
Study design	Cross-Sectional, Online Survey Study  Cross-Sectional, Online Survey Study
, ,	, , ,
Setting	Not applicable
PS	Not applicable
Study location	Not applicable
Quality appraisal according to the relevant	Exclude
Johanna Briggs Institute tool (please cross out	
or delete accordingly)	
Epidemic of reference:	Covid-19
Research methods employed (e.g. qualitative	Online Survey
interviews; modelling; surveys; systematic	
review)	
Specific lockdown measure investigated in the	Not applicable
study (e.g. generic quarantine or unspecified	
lockdown measure; curfew; stay at home policy;	
travel restrictions; school closures; market and	
trade shutdowns; social distancing)	
Broad area of impact explored in the study	Not applicable
(please cross out or delete as appropriate)	
Evidence of impact to the general population	Not applicable
from lockdown measures (e.g. 10% decrease of	
disposable income before and after the peak of	
the epidemic; 30% reduction of hospital visits	
for maternal services)	
Specific evidence of impact on children (e.g.	Not applicable
30% increase of weight during two weeks of	
implementation of stay at home policy; or:	
'calculated 365,000 extra malaria deaths	
calculated as a consequence of disruption of	
bed nets distribution)	
Specific evidence of impact on women (e.g. 20%	Not applicable
reduction of female employment in the fishing	
sector, as a result of decreased demand for fish	
during the epidemic)	
Relevance and importance of the paper for our	Exclude
own systematic review	
Other comments or issues to be noted about	Not from LMICs
this paper	

## Table S1. Data extraction form for SLR on the health impact of lockdown measures for women and children in LMICs

Title of the paper:	Access to Healthcare in a time of COVID-19: Sex Workers in Crisis
	in Nairobi, Kenya
Author(s) and date:	Susan Gichuna , Rahma Hassan , Teela Sanders , Rosie Campbell ,
	Mercy Mutonyi & Peninah Mwangi
Quality appraisal according to	■ Include
the relevant Johanna Briggs	
<u>Institute tool</u> (please cross out	
or delete accordingly)	
Epidemic of reference:	Covid-19
Research methods employed	Qualitative – 117 sex workers and 15 healthcare providers
(e.g. qualitative interviews;	
modelling; surveys; systematic	
review)	
Specific lockdown measure	Mentioned lockdown in general terms. The paper notes that
investigated in the study (e.g.	'These include the cessation of movement, dusk to dawn curfew,
generic quarantine or	stay-at-home requirements and a ban on all forms of gatherings
unspecified lockdown	– religious, political and social. The government enforced
measure; curfew; stay at	containment measures by deploying police to ensure adherence
home policy; travel	to the night curfew, social distancing
restrictions; school closures;	and wearing of face masks'

market and trade shutdowns; social distancing)  Broad area of impact explored in the study (please cross out or delete as appropriate)	<ul> <li>36. Demand for healthcare / Healthcare seeking behaviour;</li> <li>37. Impact on partner relationships, sexual and reproductive behaviour;</li> <li>38. Increases in social vulnerability, poverty and impact on human development;</li> </ul>
Evidence of impact to the general population from lockdown measures (e.g. 10% decrease of disposable income before and after the peak of the epidemic; 30% reduction of hospital visits for maternal services)	
Specific evidence of impact on children (e.g. 30% increase of weight during two weeks of implementation of stay at home policy; or: 'calculated 365,000 extra malaria deaths calculated as a consequence of disruption of bed nets distribution)	
Specific evidence of impact on women (e.g. 20% reduction of female employment in the fishing sector, as a result of decreased demand for fish during the epidemic)	Sex workers could not access healthcare due to movement restrictions and also having to conduct more business during the day (when clinics were open).  Social distancing reduced opportunities for peer support amongst sex workers, as well as making clinic visits more time consuming.
	Challenges accessing ARVs and PrEP – potentially increased HIV risk  Reduced access to family planning services – noted that there would be 'corona babies' and unwanted pregnancies. Reduced supply of condoms.
Relevance and importance of the paper for our own systematic review  Other comments or issues to be noted about this paper	Paper of some importance for some sections of the review

Table S1. Data extraction form for SLR on the health impact of lockdown measures for women and children in LMICs

Title of the paper:	COVID-19 response needs to broaden financial inclusion to curb
Author(s) and date:	the rise in poverty  Roxana Gutiérrez-Romero Mostak Ahamed
Quality appraisal according to	□ Include
the relevant Johanna Briggs	moldae
Institute tool (please cross out	No JBI tool for modelling
or delete accordingly)	The JBI coor for modelling
Epidemic of reference:	Covid
Research methods employed	Modelling
(e.g. qualitative interviews;	
modelling; surveys; systematic	
review)	
Specific lockdown measure	Only second half of paper relevant
investigated in the study (e.g.	, ,
generic quarantine or	forecasts changes in the poverty headcount ratio using the
unspecified lockdown	\$1.90, \$3.20 and \$5.50 dollars a day poverty lines.
measure; curfew; stay at	
home policy; travel	Impact of lockdown implied, but only through assumptions
restrictions; school closures;	around reductions of GDP growth (which are not solely related
market and trade shutdowns;	to lockdowns)
social distancing)	
Broad area of impact explored	39. Increases in social vulnerability, poverty and impact on
in the study (please cross out	human development;
or delete as appropriate)	40.
Evidence of impact to the	Results forecast that "globally, the percentage of people living
general population from	under \$1.90 a day would increase from 13.1% in 2019, to about
lockdown measures (e.g. 10%	13.8% in 2020 and 14.5% by 2021. This
decrease of disposable income	represents an increase of 107.8 million people in poverty, using
before and after the peak of	the \$1.90 dollars a day poverty line"
the epidemic; 30% reduction	
of hospital visits for maternal	"the percentage of people worldwide living under
services)	\$3.20 a day would increase from 24.8% in 2019 to nearly 27% by
	2021, pushing nearly 169.4 million people in poverty.
	in terms of the percentage of people living under
	\$5.50 a day, poverty would increase from 40% in 2019 to nearly
	43% by 2021, pushing nearly 231 million people in poverty."
Specific evidence of impact on	
children (e.g. 30% increase of	
weight during two weeks of implementation of stay at	
home policy; or: 'calculated	
365,000 extra malaria deaths	
calculated as a consequence	
of disruption of bed nets	
distribution)	
Specific evidence of impact on	
women (e.g. 20% reduction of	
female employment in the	

fishing sector, as a result of	
decreased demand for fish	
during the epidemic)	
Relevance and importance of	Secondary paper
the paper for our own	
systematic review	
Other comments or issues to	Provides high level background on forecasted poverty
be noted about this paper	increases

Table 5: Data extraction form for SLR on the health impact of lockdown measures for women and children in LMICs

Title of the paper:	Immediate impact of stay-at-home orders to control COVID-19 transmission on socioeconomic conditions, food insecurity, mental health, and intimate partner violence in Bangladeshi women and their families: an interrupted time series
Author(s) and date:	Hamadani et al (2020)
Quality appraisal according to	☐ Include
the relevant Johanna Briggs	
Institute tool (please cross out	
or delete accordingly)	
Epidemic of reference:	COVID-19
Research methods employed (e.g. qualitative interviews; modelling; surveys; systematic	Interrupted time-series analysis from a randomised control trial
review)	
Specific lockdown measure investigated in the study (e.g.	Stay at home policies
generic quarantine or	
unspecified lockdown	
measure; curfew; stay at	
home policy; travel	
restrictions; school closures;	
market and trade shutdowns;	
social distancing)	
Broad area of impact explored	41. Mental Health;
in the study (please cross out	42. Livelihood (poverty);
or delete as appropriate)	43. Other – domestic violence.
Evidence of impact to the	A reduction in work for the father or other family members was
general population from	reported by 2321 (96.0%,) of the families in the sample. Median
lockdown measures (e.g. 10%	monthly income fell from US\$212 at baseline to \$59 during
decrease of disposable income	lockdown. At baseline, five (0.2%) of 2422 families were earning
before and after the peak of	less than \$1.90 per day, and during the lockdown this number
the epidemic; 30% reduction	increased to 992 (47.3%,) of 2096 (p<0.0001) comparing
of hospital visits for maternal	baseline with lockdown period.
services)	
Specific evidence of impact on	N/A
children (e.g. 30% increase of	
weight during two weeks of	
implementation of stay at	

365,000 extra malaria deaths calculated as a consequence of disruption of bed nets distribution)  Specific evidence of impact on women (e.g. 20% reduction of female employment in the fishing sector, as a result of decreased demand for fish during the epidemic)	Maternal mental health deteriorated during the lockdown. Symptoms of depression increased among women during lockdown (10, 3–17; 6-point increase, in the IQR 0–11 scale); p<0.0001. Emotional violence increased with respect to baseline, including insults (initially reported by 19.9%) 68.4% reported an increase, humiliation [66.0%] of 191 reported an increase), and intimidation (reported by 13.5% [68.7%] of 291 reported an increase). Physical violence (eg, being slapped or having something thrown at them) was initially reported by 6.5%, [56%] of 135 reported an increase). Sexual violence was less common (3.0%, 2.3–3.8), but of those affected, 33 (50.8%) of 65 reported it had increased since the lockdown.
Relevance and importance of the paper for our own	Key paper for the review
systematic review	
Other comments or issues to be noted about this paper	Very strong paper, particularly for the domestic violence domain. But also presenting data to be used for poverty and livelyhoods.

Table 6: Data extraction form for SLR on the health impact of lockdown measures for women and children in LMICs

Title of the paper:	Potential impact of the COVID-19 pandemic on HIV, tuberculosis, and malaria in low-income and middle-income countries: a modelling study
Author(s) and date:	Hogan et al (2020)
Quality appraisal according to	■ Include
the relevant Johanna Briggs	
<u>Institute tool</u> (please cross out	
or delete accordingly)	
Epidemic of reference:	COVID-19
Research methods employed	Modelling
(e.g. qualitative interviews;	
modelling; surveys; systematic	
review)	
Specific lockdown measure	Interruption of services, namely: interruption of ART, disruption
investigated in the study (e.g.	of TB early TB diagnosis; interruption of planned campaigns for
generic quarantine or	malaria nets distribution
unspecified lockdown	
measure; curfew; stay at	
home policy; travel	
restrictions; school closures;	
market and trade shutdowns;	
social distancing)	

Broad area of impact explored in the study (please cross out or delete as appropriate)	<ul><li>44. Disruption of routine services for mother and child services;</li><li>45. Other (deaths and increased incidence of Aids, TB and malaria).</li></ul>
Evidence of impact to the general population from lockdown measures (e.g. 10% decrease of disposable income before and after the peak of the epidemic; 30% reduction of hospital visits for maternal services)	Under different scenarios of COVID-19 mitigation and suppression, it was calculated there would be up to 596 extra deaths per million people due to HIV-Aids, 987 pere million people due to TB, and up to 1,018 per million people due to malaria.
Specific evidence of impact on children (e.g. 30% increase of weight during two weeks of implementation of stay at home policy; or: 'calculated 365,000 extra malaria deaths calculated as a consequence of disruption of bed nets distribution)	
Specific evidence of impact on women (e.g. 20% reduction of female employment in the fishing sector, as a result of decreased demand for fish during the epidemic)	
Relevance and importance of the paper for our own systematic review	Paper of some importance for some sections of the review
Other comments or issues to be noted about this paper	It would be cumbersome to make a link to the specific modelled extra deaths for children and women, although a substantial proportion of malaria and aids deaths can be attributed to such vunerable popoulations in LICs settings.

Table 7: Data extraction form for SLR on the health impact of lockdown measures for women and children in LMICs

Title of the paper:	Potential effects of disruption to HIV programmes in sub- Saharan Africa caused by COVID-19: results from multiple mathematical models
Author(s) and date:	Jewell et al (2020)
Quality appraisal according to	■ Include
the relevant Johanna Briggs	
<u>Institute tool</u> (please cross out	
or delete accordingly)	
Epidemic of reference:	COVID-19
Research methods employed	Quantitative modelling to estimate the impact of COVID-19 on
(e.g. qualitative interviews;	the AIDS prevalence and deaths in Africa
modelling; surveys; systematic	·
review)	

Specific lockdown measure investigated in the study (e.g. generic quarantine or unspecified lockdown measure; curfew; stay at home policy; travel restrictions; school closures; market and trade shutdowns; social distancing)  Broad area of impact explored in the study (please cross out or delete as appropriate)	<ul> <li>Suspension of HIv testing;</li> <li>Interruption of ART drugs and services</li> <li>Interruption of mother-to-child transmission services;</li> <li>Interruption of condom supplies.</li> </ul> 46. Disruption of routine services for mother and child services; 47. Increases in social vulnerability, poverty and impact on human development;
Evidence of impact to the general population from lockdown measures (e.g. 10% decrease of disposable income before and after the peak of the epidemic; 30% reduction of hospital visits for maternal services)	According to different scenarios of disruption of services (from 20% to 100% disruption), the models predict between 92,000 and 956,000 excess deaths in SS Africa in one year.
Specific evidence of impact on children (e.g. 30% increase of weight during two weeks of implementation of stay at home policy; or: 'calculated 365,000 extra malaria deaths calculated as a consequence of disruption of bed nets distribution)	Interruption of ART would increase mother-to-child transmission of HIV by approximately 1·6 times, with a similar increase of mortality for newborns.
Specific evidence of impact on women (e.g. 20% reduction of female employment in the fishing sector, as a result of decreased demand for fish during the epidemic)	N/A
Relevance and importance of the paper for our own systematic review  Other comments or issues to	☐ Key paper for the review  Difficult to extract specific mortality predictions for children.
be noted about this paper	

Table 8: Data extraction form for SLR on the health impact of lockdown measures for women and children in LMICs

Title of the paper:	Implications of COVID-19-induced nationwide lockdown on
	children's behaviour in Punjab, India
Author(s) and date:	Kaur Sama et al (2020)
Quality appraisal according to	■ Include
the relevant Johanna Briggs	

1	
Institute tool (please cross out	
or delete accordingly)	COVID 40
Epidemic of reference:	COVID-19
Research methods employed	Telephone questionnaire and interviews
(e.g. qualitative interviews;	
modelling; surveys; systematic	
review)	
Specific lockdown measure	Stay at home measures; closure of schools.
investigated in the study (e.g.	
generic quarantine or	
unspecified lockdown	
measure; curfew; stay at	
home policy; travel	
restrictions; school closures;	
market and trade shutdowns;	
social distancing)	
Broad area of impact explored	48. Mental Health;
in the study (please cross out	49. Dietary patterns and nutrition;
or delete as appropriate)	
Evidence of impact to the	N/A
general population from	
lockdown measures (e.g. 10%	
decrease of disposable income	
before and after the peak of	
the epidemic; 30% reduction	
of hospital visits for maternal	
services)	
Specific evidence of impact on	73.15% and 51.25% of the children were having signs of increased irritation and anger,
children (e.g. 30% increase of	respectively; 18.7% and 17.6% of the parents also mentioned the symptoms of depression and anxiety, respectively, among their children, which were also augmented by the
weight during two weeks of	changes in their diet, sleep, weight and more usage of the electronic equipment.
implementation of stay at	
home policy; or: 'calculated	
365,000 extra malaria deaths	
calculated as a consequence	
of disruption of bed nets	
distribution)	
Specific evidence of impact on	N/A
women (e.g. 20% reduction of	
female employment in the	
fishing sector, as a result of	
decreased demand for fish	
during the epidemic)	
Relevance and importance of	Secondary paper
the paper for our own	
systematic review	
Other comments or issues to	
be noted about this paper	
in a factor	

Table S1. Data extraction form for SLR on the health impact of lockdown measures for women and children in LMICs

Title of the paper:	Consensus building around nutrition lessons from the 2014–16
The state papers	Ebola virus disease outbreak in Guinea and Sierra Leone
Author(s) and date:	Stephen R Kodish , Aline Simen-Kapeu, Jean-Max Beauliere,
	Ismael Ngnie-Teta, Mohammed B Jalloh, Solade Pyne-Bailey,
	Helen Schwartz and James PWirth
Quality appraisal according to	☐ Include
the relevant Johanna Briggs	■ Exclude
<u>Institute tool</u> (please cross out	Seek further information
or delete accordingly)	
Epidemic of reference:	Ebola
Research methods employed	Qualitative – workshops with 17 and 19 stakeholders
(e.g. qualitative interviews;	
modelling; surveys; systematic	
review)	
Specific lockdown measure	Not really a focus on the impact of lockdown or control
investigated in the study (e.g.	measures, though this is touched upon a little
generic quarantine or	
unspecified lockdown	
measure; curfew; stay at	
home policy; travel	
restrictions; school closures;	
market and trade shutdowns;	
social distancing)	CO. Distant nottones and authitian
Broad area of impact explored	50. Dietary patterns and nutrition;
in the study (please cross out or delete as appropriate)	<ul><li>51. Demand for healthcare / Healthcare seeking behaviour;</li><li>52.</li></ul>
Evidence of impact to the	52.
general population from	
lockdown measures (e.g. 10%	
decrease of disposable income	
before and after the peak of	
the epidemic; 30% reduction	
of hospital visits for maternal	
services)	
Specific evidence of impact on	Stakeholders mentioned that infant and young child nutrition
children (e.g. 30% increase of	was adversely impacted by
weight during two weeks of	
implementation of stay at	Poor access to the health system
home policy; or: 'calculated	Household food insecurity
365,000 extra malaria deaths	Changing breastfeeding practices.
calculated as a consequence	
of disruption of bed nets	
distribution)	
Specific evidence of impact on	
women (e.g. 20% reduction of	
female employment in the	
fishing sector, as a result of	

decreased demand for fish	
during the epidemic)	
Relevance and importance of	Secondary paper
the paper for our own	
systematic review	
Other comments or issues to	Potentially could also exclude this paper, not sure it really
be noted about this paper	addresses lockdowns specifically

Table S1. Data extraction form for SLR on the health impact of lockdown measures for women and children in LMICs

Title of the paper:	A qualitative study to understand how Ebola Virus Disease
Title of the paper.	affected nutrition in Sierra Leone—A food value-chain
	framework for improving future response strategies
Author(s) and date:	Stephen R. Kodish, Frank Bio, Rachel Oemcke, James Conteh,
rathor(s) and date.	Jean Max Beauliere, Solade Pyne-Bailey, Fabian Rohner, Ismael
	Ngnie-Teta, Mohammad B. Jalloh, James P. Wirth, 2020
Quality appraisal according to	_
the relevant Johanna Briggs	□ Include
Institute tool (please cross out	
or delete accordingly)	Ebola Virus Disease 2014-2016 outbreak
Epidemic of reference:	
Research methods employed	Qualitative methods comprised of 42 in-depth interviews (21
(e.g. qualitative interviews;	Key informants and 21 community informants)
modelling; surveys; systematic	
review)	No are attended to the state of
Specific lockdown measure	No specific measure as such. The study includes looking at the
investigated in the study (e.g.	impact of control measures on nutrition, but this is not the only
generic quarantine or	focus.
unspecified lockdown	//T
measure; curfew; stay at	"To reduce the spread of EVD in Sierra Leone, the government
home policy; travel	restricted people's movements by blocking roads and imposing
restrictions; school closures;	household and community quarantines."
market and trade shutdowns;	
social distancing)	52.51
Broad area of impact explored	53. Dietary patterns and nutrition
in the study (please cross out	
or delete as appropriate)	
Evidence of impact to the	Negative impact on food security and nutrition due to reduction
general population from	in production (people could not go to their farms or the market)
lockdown measures (e.g. 10%	Movement was restricted, therefore food was scarce.
decrease of disposable income	Shops were closed
before and after the peak of	Most mothers and family heads were not able to work
the epidemic; 30% reduction	
of hospital visits for maternal	Overall conceptual framework:
services)	Reduction in food production
	Reduced planting
	Reduced agricultural capacity
	Reduced food processing
	Challenges related to bringing food to market (i.e no
	household surplus)

	Ţ
	Prices high
	<ul> <li>Limited markets open, some entirely closed</li> </ul>
	Resulting in
	Reduced food availability and access
	Altered infants and young children feeding practices
Specific evidence of impact on	For those that could afford it, they were unable to buy baby
children (e.g. 30% increase of	food at the shops
weight during two weeks of	
implementation of stay at	Altered infants and young children feeding practices
home policy; or: 'calculated	, , ,
365,000 extra malaria deaths	Reduced screening for malnutrition cases
calculated as a consequence	Travel restrictions limiting people's movement
of disruption of bed nets	Reduced health-seeking behaviors from less movement and
distribution)	distrust
·	Early denial of outbreak and distrust among community
Specific evidence of impact on	No specific issues reported
women (e.g. 20% reduction of	
female employment in the	
fishing sector, as a result of	
decreased demand for fish	
during the epidemic)	
Relevance and importance of	Key paper for the review
the paper for our own	
systematic review	
Other comments or issues to	
be noted about this paper	

Table 9: Data extraction form for SLR on the health impact of lockdown measures for women and children in LMICs

Title of the paper:	The Ebola-effect in Guinea 2014-15: Tangled trends of malaria care in children under-five
Author(s) and date:	Kolie et al (2018)
Quality appraisal according to	☐ Include
the relevant Johanna Briggs	
Institute tool (please cross out	
or delete accordingly)	
Epidemic of reference:	Ebola
Research methods employed	Cross sectional analysis of routine malaria surveillance data
(e.g. qualitative interviews;	
modelling; surveys; systematic	
review)	
Specific lockdown measure	Stay at home; curfews and suspension of services
investigated in the study (e.g.	
generic quarantine or	
unspecified lockdown	

measure; curfew; stay at home policy; travel restrictions; school closures; market and trade shutdowns; social distancing)  Broad area of impact explored in the study (please cross out or delete as appropriate)  Evidence of impact to the general population from lockdown measures (e.g. 10% decrease of disposable income	54. Disruption of routine services for mother and child services; 55. Demand for healthcare / Healthcare seeking behaviour;  During the peak of the Ebola outbreak, there was a significant decrease in oral antimalarial drug administration, which corresponded to an increase in injectable antimalarial treatments. Stock-outs in rapid diagnostic tests were evident
before and after the peak of the epidemic; 30% reduction of hospital visits for maternal services)	and prolonged in GueÂckeÂdou during the outbreak, while more limited in Koubia.
Specific evidence of impact on children (e.g. 30% increase of weight during two weeks of implementation of stay at home policy; or: 'calculated 365,000 extra malaria deaths calculated as a consequence of disruption of bed nets distribution)	In the Ebola-affected district of GueÂckeÂdou, there was a 30% decrease in total clinical visits, malaria testing for >5 children.
Specific evidence of impact on women (e.g. 20% reduction of female employment in the fishing sector, as a result of decreased demand for fish during the epidemic)	N/A
Relevance and importance of the paper for our own systematic review	■ Secondary paper
Other comments or issues to be noted about this paper	

Table 10: Data extraction form for SLR on the health impact of lockdown measures for women and children in LMICs

Title of the paper:	The impact of a prolonged ebola outbreak on measles elimination activities in Guinea, Liberia and Sierra Leone, 2014-2015
Author(s) and date:	Maresha et al (2020)
Quality appraisal according to	■ Include
the relevant Johanna Briggs	
<u>Institute tool</u> (please cross out	
or delete accordingly)	
Epidemic of reference:	Ebola
Research methods employed	Review of routine surveillance and service delivery data
(e.g. qualitative interviews;	

	<del>-</del>
modelling; surveys; systematic	
review)  Specific lockdown measure investigated in the study (e.g. generic quarantine or unspecified lockdown measure; curfew; stay at home policy; travel restrictions; school closures; market and trade shutdowns; social distancing)  Broad area of impact explored in the study (please cross out	Interruption of services and closure of facilities.  56. Disruption of routine services for mother and child services; 57. Demand for healthcare / Healthcare seeking behaviour;
or delete as appropriate)  Evidence of impact to the general population from lockdown measures (e.g. 10% decrease of disposable income before and after the peak of the epidemic; 30% reduction of hospital visits for maternal services)	Liberia and Guinea experienced a sharp decline of more than 25% in the monthly number of children vaccinated against measles in 2014 and 2015 as compared to the previous years, while there was no reported decline in Sierra Leone.
Specific evidence of impact on children (e.g. 30% increase of weight during two weeks of implementation of stay at home policy; or: 'calculated 365,000 extra malaria deaths calculated as a consequence of disruption of bed nets distribution)	In Liberia, the mean monthly number of children vaccinated for measles declined by 30% in 2014 and by a further 25% during 2015; in Guinea the monthly average declined by 33% in 2014 and by 26% in 2015.  In Sierra Leone the decline was much smaller, as the MCV1 coverage showed a 3% decline from an average of 86% for 2012 – 2013 to 83% in 2016 – 2017.
Specific evidence of impact on women (e.g. 20% reduction of female employment in the fishing sector, as a result of decreased demand for fish during the epidemic)  Relevance and importance of the paper for our own systematic review	N/A  Secondary paper
Other comments or issues to be noted about this paper	There are some issues with the statistical methods used in the study.

Table S1. Data extraction form for SLR on the health impact of lockdown measures for women and children in LMICs

Title of the paper:	Awareness and concerns about novel coronavirus disease
	2019 (COVID-19) among parents of pediatric liver transplant
	recipients

Author(s) and date:	Jagadeesh Menon, Naresh Shanmugam, Kinisha Patel, Abdul
	Hakeem, Mettu Srinivas Reddy, Mohamed Rela
Quality appraisal according to	☐ Include
the relevant <u>Johanna Briggs</u>	■ Exclude
<u>Institute tool</u> (please cross out	Seek further information
or delete accordingly)	
Epidemic of reference:	Covid-19
Research methods employed	Web-based survey conducted with 106 parents of post-liver
(e.g. qualitative interviews;	transplant children
modelling; surveys; systematic	
review)	
Specific lockdown measure	Not focused on the impact of lockdown
investigated in the study (e.g.	
generic quarantine or	
unspecified lockdown	
measure; curfew; stay at	
home policy; travel	
restrictions; school closures;	
market and trade shutdowns;	
social distancing)	
Broad area of impact explored	Awareness and sources of information
in the study (please cross out	
or delete as appropriate)	
Evidence of impact to the	
general population from	
lockdown measures (e.g. 10%	
decrease of disposable income	
before and after the peak of	
the epidemic; 30% reduction	
of hospital visits for maternal	
services)	
Specific evidence of impact on	
children (e.g. 30% increase of	
weight during two weeks of	
implementation of stay at	
home policy; or: 'calculated	
365,000 extra malaria deaths	
calculated as a consequence	
of disruption of bed nets	
distribution)	
Specific evidence of impact on	
women (e.g. 20% reduction of	
female employment in the	
fishing sector, as a result of	
decreased demand for fish	
during the epidemic)	
Relevance and importance of	Not relevant
the paper for our own	
systematic review	
Other comments or issues to	Exclude this paper, it doesn't address the impact of
be noted about this paper	lockdown

Table S1. Data extraction form for SLR on the health impact of lockdown measures for women and children in LMICs

Title of the paper:	COVID-19 induced economic loss and ensuring food security for
Author(s) and date:	vulnerable groups: Policy implications from Bangladesh Khondoker Abdul Mottaleb, Mohammed Mainuddin, Tetsushi Sonobe
Quality appraisal according to the relevant Johanna Briggs Institute tool (please cross out	Include  No 'modelling' appraisal tool
or delete accordingly)  Epidemic of reference:	Covid-19
Research methods employed (e.g. qualitative interviews; modelling; surveys; systematic review)	Modelling  "The present study uses information from 50,000 economically active workers in Bangladesh, collected by the Bangladesh Bureau of Statistics (BBS), to quantify the economic loss due to the COVID-19 lockdown based on the lost wage earnings of the daily wage workers in the farm and nonfarm sectors of Bangladesh."  "this study quantifies the daily economic loss due to wage earning forgone of daily wage based workers both in farm and nonfarm sectors."  Econometric analysis Estimates daily wages of farm and non-farm workers Multiplies these wages by the number of workers
Specific lockdown measure investigated in the study (e.g. generic quarantine or unspecified lockdown measure; curfew; stay at home policy; travel restrictions; school closures; market and trade shutdowns; social distancing)  Broad area of impact explored in the study (please cross out or delete as appropriate)  Evidence of impact to the	Covers lockdown in general      S8. Increases in social vulnerability, poverty and impact on human development;  The estimated daily wage earnings for farm workers is BDT
general population from lockdown measures (e.g. 10% decrease of disposable income before and after the peak of the epidemic; 30% reduction of hospital visits for maternal services)	272.2, and BDT 361.5 for nonfarm workers In 2016–17, there were 24.7 million workers in the farm sector and 36.1 million in the nonfarm sector

	Under the assumption of a complete lockdown with no-one allowed to work, the economic loss in one day is estimated at BDT 5389.03 million or approximately US\$ 64.2 million.  Assuming 50% of the daily wage workers are not allowed to work and the rest are, the economic loss/day will be BDT 2694.5 million or US\$ 32.1 million.
	we have estimated that on average it is necessary to provide daily BDT 51–104 or around US \$ 1 per daily wage-based households during the COVID-19 induced lockdown time. It is important to mention here is that, the suggested minimum support US\$ 1/day/household is calculated based on considering only food expenditure.
Specific evidence of impact on children (e.g. 30% increase of	
weight during two weeks of	
implementation of stay at	
home policy; or: 'calculated	
365,000 extra malaria deaths	
calculated as a consequence	
of disruption of bed nets	
distribution)	
Specific evidence of impact on	
women (e.g. 20% reduction of	
female employment in the	
fishing sector, as a result of	
decreased demand for fish	
during the epidemic)	Coordon various
Relevance and importance of	Secondary paper
the paper for our own	
Systematic review	Chause notantial acanomic insurants of control massages
Other comments or issues to	Shows potential economic impacts of control measures
be noted about this paper	

Table 11: Data extraction form for SLR on the health impact of lockdown measures for women and children in LMICs

Title of the paper:	The impact of COVID-19 lockdown in a developing country: narratives of self-employed women in Ndola, Zambia
Author(s) and date:	Nyashanu et al (2020)
Quality appraisal according to	■ Include
the relevant Johanna Briggs	■ Exclude
<u>Institute tool</u> (please cross out	Seek further information
or delete accordingly)	
Epidemic of reference:	COVID-19 in Zambia
Research methods employed (e.g. qualitative interviews; modelling; surveys; systematic review)	In-depth qualitative interviews (40 women)
Specific lockdown measure investigated in the study (e.g.	Stay at home, closure of markets and restrictions on comerce

generic quarantine or unspecified lockdown measure; curfew; stay at home policy; travel restrictions; school closures; market and trade shutdowns; social distancing)  Broad area of impact explored in the study (please cross out or delete as appropriate)	<ul><li>59. Demand for healthcare / Healthcare seeking behaviour;</li><li>60. Increases in social vulnerability, poverty and impact on human development;</li></ul>
Evidence of impact to the general population from lockdown measures (e.g. 10% decrease of disposable income before and after the peak of the epidemic; 30% reduction of hospital visits for maternal services)	
Specific evidence of impact on children (e.g. 30% increase of weight during two weeks of implementation of stay at home policy; or: 'calculated 365,000 extra malaria deaths calculated as a consequence of disruption of bed nets distribution)	100% of the research participants reported challenges of keeping young people indoors due to boredom and short concentration span. They also reported difficulties in exercising social distancing while in the house due to the size of the room.
Specific evidence of impact on women (e.g. 20% reduction of female employment in the fishing sector, as a result of decreased demand for fish during the epidemic)	100% of the research participants reported inadequate food supplies as a result of closing down of their self-run businesses. 100% of the research participants reported hopelessness to revive their business due to spending up of their savings during COVID-19 Lockdown. They also reported a loss of all their perishable goods at the start of the lockdown. 100% of the research participants reported poor access to reproductive health services due to poor transport network during lockdown. They also reported poor access to maternal health services.
Relevance and importance of the paper for our own systematic review Other comments or issues to	Paper of some importance for some sections of the review  Interesting qualitative paper on livelyhoods of women, but
be noted about this paper	the reported evidence from the intereviews is rather weak

Table 12: Data extraction form for SLR on the health impact of lockdown measures for women and children in LMICs

Title of the paper:	Psychological impact of mass quarantine on population during pandemics-The COVID-19 Lock-Down (COLD) study
Author(s) and date:	Pandey et al (2020)

Quality appraisal according to	■ Include
the relevant Johanna Briggs	
<u>Institute tool</u> (please cross out	
or delete accordingly)	
Epidemic of reference:	COVID-19
Research methods employed	Cross sectional survey to quantify prevalence of depressiona and
(e.g. qualitative interviews;	anxiety in India
modelling; surveys; systematic	
review)	
Specific lockdown measure	Quarantine
investigated in the study (e.g.	
generic quarantine or	
unspecified lockdown	
measure; curfew; stay at	
home policy; travel	
restrictions; school closures;	
market and trade shutdowns;	
social distancing)	61. Mental Health;
Broad area of impact explored in the study (please cross out	or. Mental health;
or delete as appropriate)	
Evidence of impact to the	The reported prevalence of depression was 30.5%. Anxiety was
general population from	reported by 22.4%, followed by stress which was seen in 10.8%
lockdown measures (e.g. 10%	of respondents. In the third week the incidence of depression
decrease of disposable income	(37.8% versus 23.4%; p<0.001), anxiety (26.6% versus 18.2%;
before and after the peak of	p<0.001) and stress (12.2% versus 9.3%; p<0.045) was reported
the epidemic; 30% reduction	to be significantly higher as compared to second week.
of hospital visits for maternal	to so significantly inginer as somepared to seems treeting
services)	
Specific evidence of impact on	N/A
children (e.g. 30% increase of	
weight during two weeks of	
implementation of stay at	
home policy; or: 'calculated	
365,000 extra malaria deaths	
calculated as a consequence	
of disruption of bed nets	
distribution)	
Specific evidence of impact on	Women were more susceptible to suffer from all forms of
women (e.g. 20% reduction of	psychological symptoms (depression, anxiety and stress) as
female employment in the	compared to men;Significantly higher proportion of women had
fishing sector, as a result of	mild to severe level of depression (P<0.002), anxiety (P<0.002)
decreased demand for fish	and stress (P<0.001) as compared to the men.
during the epidemic)	
Relevance and importance of	Key paper for the review
the paper for our own	
systematic review	
Other comments or issues to	Results are not generalisable to the whole population, as
be noted about this paper	they are from a smal sample of 1,395 people.

Table S1. Data extraction form for SLR on the health impact of lockdown measures for women and children in LMICs

Title of the paper:	Attitudes and collateral psychological effects of COVID - 19 in
	pregnant women in Colombia
Author(s) and date:	Miguel Parra-Saavedra et al
Quality appraisal according to	☐ Include
the relevant Johanna Briggs	- moduce
Institute tool (please cross out	
or delete accordingly)	
Epidemic of reference:	Covid-19
Research methods employed	
(e.g. qualitative interviews;	Cross sectional online survey of pregnant women on 7 cities N=946 valid surveys
	N-946 Vallu Sulveys
modelling; surveys; systematic review)	
•	No specific measure
Specific lockdown measure	No specific measure
investigated in the study (e.g.	
generic quarantine or	(() A la construction of the construction of t
unspecified lockdown	"Women were evaluated during the mitigation phase of the
measure; curfew; stay at	SARS-Co-2 pandemic between April 13 and May 18, 2020"
home policy; travel	
restrictions; school closures;	
market and trade shutdowns;	
social distancing)	60.00.00.00
Broad area of impact explored	62. Mental Health;
in the study (please cross out	63.
or delete as appropriate)	
Evidence of impact to the	
general population from	
lockdown measures (e.g. 10%	
decrease of disposable income	
before and after the peak of	
the epidemic; 30% reduction	
of hospital visits for maternal	
services)	
Specific evidence of impact on	
children (e.g. 30% increase of	
weight during two weeks of	
implementation of stay at	
home policy; or: 'calculated	
365,000 extra malaria deaths	
calculated as a consequence	
of disruption of bed nets	
distribution)	
Specific evidence of impact on	The presence of symptoms associated with anxiety was reported
women (e.g. 20% reduction of	by 50.1% of the women. Similarly, 49% of the participants
female employment in the	reported insomnia and 25.4% reported symptoms of depression.
fishing sector, as a result of	The authors note this is high but there is no 'pre-epidemic'
decreased demand for fish	comparison
during the epidemic)	

Relevance and importance of the paper for our own	Paper of some importance for some sections of the review
systematic review	
Other comments or issues to be noted about this paper	Describes levels of psychological impacts during mitigation measures but does not offer much comparison with precovid times

Table S1. Data extraction form for SLR on the health impact of lockdown measures for women and children in LMICs

Title of the paper:	Early estimates of the indirect effects of the COVID-19
	pandemic on maternal and child mortality in low-income
	and middle-income countries: a modelling study
Author(s) and date:	Timothy Roberton, Emily D Carter, Victoria B Chou, Angela R
	Stegmuller, Bianca D Jackson, Yvonne Tam, Talata Sawadogo-
	Lewis, Neff Walker
Quality appraisal according to	■ Include
the relevant <u>Johanna Briggs</u>	■ Exclude
<u>Institute tool</u> (please cross out	Seek further information
or delete accordingly)	
Epidemic of reference:	Covid
Research methods employed	Modelling
(e.g. qualitative interviews;	
modelling; surveys; systematic	"We modelled three scenarios in which the coverage of essential
review)	maternal and child health interventions is reduced by 9.8–51.9%
	and the prevalence of wasting is increased by 10–50%."
	Data covers 118 LMICs
Specific lockdown measure	No specific measure
investigated in the study (e.g.	
generic quarantine or	"Governments are restricting population movement by
unspecified lockdown	closing borders, reducing public transport, halting nonessential
measure; curfew; stay at	activities, and issuing shelter-in-place orders"
home policy; travel	-
restrictions; school closures;	But other mechanisms are also identified, so the findings cannot
market and trade shutdowns;	be solely attributed to lockdowns
social distancing)	
Broad area of impact explored	64. Disruption of routine services for mother and child services;
in the study (please cross out	65. Demand for healthcare / Healthcare seeking behaviour;
or delete as appropriate)	
Evidence of impact to the	
general population from	
lockdown measures (e.g. 10%	
decrease of disposable income	
before and after the peak of	
the epidemic; 30% reduction	
of hospital visits for maternal	
services)	
Specific evidence of impact on	"scenario 1 (smallest reductions) resulting
children (e.g. 30% increase of	in an additional 42 240 child
weight during two weeks of	deaths per month, and scenario 3 (greatest reductions)
-	

implementation of stay at home policy; or: 'calculated 365,000 extra malaria deaths	resulting in an additional and 192 830 child deaths per month"
calculated as a consequence of disruption of bed nets	"The additional child deaths would represent relative increases of 9.8% (scenario 1), 17.3% (scenario 2), and 44.7%
distribution)	(scenario 3) in child deaths per month."
	"In children, an increase in wasting prevalence would account for 18–23% of additional deaths, depending on the scenario, while reduced coverage of antibiotics for pneumonia and neonatal sepsis and of oral rehydration solution for diarrhoea would together account for around 41% of additional child deaths"
Specific evidence of impact on women (e.g. 20% reduction of female employment in the fishing sector, as a result of	"with scenario 1 (smallest reductions) resulting in an additional 2030 maternal deaths, and scenario 3 (greatest reductions) resulting in an additional 9450 maternal deaths"
decreased demand for fish during the epidemic)	"The additional maternal deaths would represent relative increases of 8·3% (scenario 1), 14·7% (scenario 2), and 38·6% (scenario 3) in maternal deaths per month"
	"The reduced coverage of four childbirth interventions (namely, parenteral administration of uterotonics, antibiotics, and anticonvulsants, and clean birth environments, which reduce mortality due to postpartum haemorrhage, maternal sepsis, and eclampsia) would account
	for approximately 60% of additional maternal deaths"
Relevance and importance of the paper for our own systematic review	Paper of some importance for some sections of the review
Other comments or issues to be noted about this paper	Modelling paper (good as it is)

Table 13: Data extraction form for SLR on the health impact of lockdown measures for women and children in LMICs

Title of the paper:	Perceived stress, parental stress, and parenting during covid-19
	lockdown: A preliminary study
Author(s) and date:	Sahithya et al (2020)
Quality appraisal according to	<ul><li>Seek further clarification (sample not representative)</li></ul>
the relevant Johanna Briggs	
Institute tool (please cross out	
or delete accordingly)	
Epidemic of reference:	COVID-19
Research methods employed	Online cross sectional survey
(e.g. qualitative interviews;	
modelling; surveys; systematic	
review)	
Specific lockdown measure	School closures
investigated in the study (e.g.	

generic quarantine or	
unspecified lockdown	
measure; curfew; stay at	
home policy; travel	
restrictions; school closures;	
market and trade shutdowns;	
social distancing)	
Broad area of impact explored	66. Mental Health;
in the study (please cross out	
or delete as appropriate)	
Evidence of impact to the	Majority of the parents reported moderate (63%) to high (4%)
general population from	perceived stress since the COVID-19 lockdown, 37% reported
lockdown measures (e.g. 10%	feeling more stressed as a parent after the lockdown, and 8% of
decrease of disposable income	the parents said they needed to talk to a counsellor/psychologist
before and after the peak of	
the epidemic; 30% reduction	
of hospital visits for maternal	
services)	
Specific evidence of impact on	It was found that parents who reported increased shouting,
children (e.g. 30% increase of	yelling and screaming (t=5.69, p<.001, g=1.06), spanking or
weight during two weeks of	slapping their child(t=2.96, p=.004, g=0.43), or those who
implementation of stay at	reported being preoccupied with worries and unable to focus on
home policy; or: 'calculated	parenting (t=4.11, p<.001, g=0.78), or had difficulties in
365,000 extra malaria deaths	disciplining the child (t=5.56, p<0.001, g=1.00) had higher
calculated as a consequence	parental stress compared to parents who did not experience
of disruption of bed nets	these difficulties.
distribution)	
Specific evidence of impact on	It was found that mothers (t=2.06, p=.041) had significantly
women (e.g. 20% reduction of	higher parental stress when compared to fathers.
female employment in the	
fishing sector, as a result of	
decreased demand for fish	
during the epidemic)	
Relevance and importance of	■ Secondary paper
the paper for our own	
systematic review	
Other comments or issues to	The sampling is not representative, and I am not sure we
be noted about this paper	should include these results

Table 14: Data extraction form for SLR on the health impact of lockdown measures for women and children in LMICs

Title of the paper:	Installing oncofertility programs for common cancers in limited resource settings (Repro-Can-OPEN Study): An extrapolation during the global crisis of Coronavirus (COVID-19) pandemic
Author(s) and date:	Salama et al (2020)
Quality appraisal according to	■ Include
the relevant Johanna Briggs	
<u>Institute tool</u> (please cross out	
or delete accordingly)	
Epidemic of reference:	COVID-19

Research methods employed (e.g. qualitative interviews; modelling; surveys; systematic review)	Multicountry survey questionnaire included questions on the availability and degree of utilization of fertility preservation options in case of childhood cancer, breast cancer, and blood cancer.
Specific lockdown measure investigated in the study (e.g. generic quarantine or unspecified lockdown measure; curfew; stay at home policy; travel restrictions; school closures; market and trade shutdowns; social distancing)	Cancelation or postponement of oncological medical treatments.
Broad area of impact explored in the study (please cross out or delete as appropriate)	<ul><li>67. Disruption of routine services for mother and child services;</li><li>68. Demand for healthcare / Healthcare seeking behaviour;</li></ul>
Evidence of impact to the general population from lockdown measures (e.g. 10% decrease of disposable income before and after the peak of the epidemic; 30% reduction of hospital visits for maternal services)	There was a substantial reduction of the availability score for Available fertility preservation options for girls with cancer in India (Yes ++)
Specific evidence of impact on children (e.g. 30% increase of weight during two weeks of implementation of stay at home policy; or: 'calculated 365,000 extra malaria deaths calculated as a consequence of disruption of bed nets distribution)	Significant reduction of availability of cancer treatment for boys in India (Yes ++) for testicular cancer treatment, as well as availability of chemio and radio therapy
Specific evidence of impact on women (e.g. 20% reduction of female employment in the fishing sector, as a result of decreased demand for fish during the epidemic)	There was a substantial reduction of the availability score for Available fertility preservation options for girls with ovarian and breast cancer cancer in India and Nigeria (Yes ++)
Relevance and importance of the paper for our own systematic review	Paper of some importance for some sections of the review
Other comments or issues to be noted about this paper	

Table S1. Data extraction form for SLR on the health impact of lockdown measures for women and children in LMICs

Title of the paper:	COVID-19 containment and its unrestrained impact on epilepsy
	management in resource-limited areas of Pakistan

Author(s) and date:	Tayyaba Saleem, Nadeem Sheikh, Muddasir Hassan Abbasi , Iram
riaciioi (s) and date.	Javed , Muhammad Babar khawar
Quality appraisal according to	□ Include
the relevant <u>Johanna Briggs</u>	
Institute tool (please cross out	
or delete accordingly)	
Epidemic of reference:	Covid-19
Research methods employed	Cross sectional survey of caregivers of pediatric patients
(e.g. qualitative interviews;	with active epilepsy
modelling; surveys; systematic	n=213
review)	
	Participants had already been recruited for a different epilepsy
	study
Specific lockdown measure	No specific measure, but references 'containment measures'
investigated in the study (e.g.	
generic quarantine or	
unspecified lockdown	
measure; curfew; stay at	
home policy; travel	
restrictions; school closures;	
market and trade shutdowns;	
social distancing)	
Broad area of impact explored	69. Disruption of routine services for mother and child services;
in the study (please cross out	
or delete as appropriate)	
Evidence of impact to the	38% lost their job during the crisis
general population from	
lockdown measures (e.g. 10%	
decrease of disposable income	
before and after the peak of	
the epidemic; 30% reduction of hospital visits for maternal	
services)	
Specific evidence of impact on	64% had an appointment cancelled due to COVID-19 pandemic
children (e.g. 30% increase of	17.4% had medication discontinued due to disruption
weight during two weeks of	26.8% reported worsening of seizures
implementation of stay at	20.070 reported Wordening of Scizures
home policy; or: 'calculated	Reliance on free AED supply from hospital:
365,000 extra malaria deaths	Totally 65 (30.5)
calculated as a consequence	Partially 122 (57.3)
of disruption of bed nets	
distribution)	
Specific evidence of impact on	
women (e.g. 20% reduction of	
female employment in the	
fishing sector, as a result of	
decreased demand for fish	
during the epidemic)	
Relevance and importance of	Paper of some importance for some sections of the review
the paper for our own	
systematic review	

Other comments or issues to	
be noted about this paper	

Table S1. Data extraction form for SLR on the health impact of lockdown measures for women and children in LMICs

Title of the paper:	Challenges to Ebola preparedness during an ongoing outbreak: An analysis of borderland livelihoods and trust in Uganda
Author(s) and date:	Megan M. Schmidt-Sane, Jannie O. Nielsen2, Mandi Chikombero, Douglas Lubowa, Miriam Lwanga, Jonathan Gamusi, Richard Kabanda, David Kaawa-Mafigiri
Quality appraisal according to the relevant Johanna Briggs Institute tool (please cross out or delete accordingly)	Exclude but not on JBI criteria
Epidemic of reference:	Ebola
Research methods employed (e.g. qualitative interviews; modelling; surveys; systematic review)	Qualitative study with 287 participants
Specific lockdown measure investigated in the study (e.g. generic quarantine or unspecified lockdown measure; curfew; stay at home policy; travel restrictions; school closures; market and trade shutdowns; social distancing)	No measure. Paper does not focus on the impact of lockdown or control measures
Broad area of impact explored in the study (please cross out or delete as appropriate)	70. Increases in social vulnerability, poverty and impact on human development;  If any
Evidence of impact to the general population from lockdown measures (e.g. 10% decrease of disposable income before and after the peak of the epidemic; 30% reduction of hospital visits for maternal services)	Ebola control measures hinder or restrict movement across borders and has infringed on individual decisions when to travel. Some may decide to proceed through informal POE to avoid Ebola surveillance activities at the formal POE. Therefore, livelihood strategies impact multiple aspects of Ebola prevention—from driving continued cross-border movement, to limiting cross-border movement (particularly through official POEs), to shifting decisions on how and when to cross the border
Specific evidence of impact on children (e.g. 30% increase of weight during two weeks of implementation of stay at home policy; or: 'calculated 365,000 extra malaria deaths	None mentioned

calculated as a consequence of disruption of bed nets	
distribution)	
Specific evidence of impact on	Non mentioned
women (e.g. 20% reduction of female employment in the	
fishing sector, as a result of	
decreased demand for fish	
during the epidemic)	
Relevance and importance of	Exclude
the paper for our own	
systematic review	
Other comments or issues to	I would probably exclude this paper – it touches upon the
be noted about this paper	impact of movement restrictions, but these are not central
	to the paper

Table 15: Data extraction form for SLR on the health impact of lockdown measures for women and children in LMICs

Title of the paper:	Women's mental health: acute impact of COVID-19 pandemic on
Title of the paper.	domestic violence
Author(s) and data	
Author(s) and date:	Sediri et al (2020)
Quality appraisal according to	☐ Include
the relevant Johanna Briggs	
Institute tool (please cross out	
or delete accordingly)	
Epidemic of reference:	COVID-19
Research methods employed	Online survey (sample of 751)
(e.g. qualitative interviews;	
modelling; surveys; systematic	
review)	
Specific lockdown measure	<ul> <li>Generic lockdown measures by the Tunisian govt;</li> </ul>
investigated in the study (e.g.	Travel or movement restriction, suspension of work and
generic quarantine or	studies
unspecified lockdown	
measure; curfew; stay at	
home policy; travel	
restrictions; school closures;	
market and trade shutdowns;	
social distancing)	
Broad area of impact explored	71. Mental Health;
in the study (please cross out	72. Impact on partner relationships, sexual and reproductive
or delete as appropriate)	behaviour;
Evidence of impact to the	More than half of the survey participants (57.3%) reported
general population from	extremely severe distress symptoms, as per the DASS-21;
lockdown measures (e.g. 10%	Violence against women also reportedly increased significantly
decrease of disposable income	during the lockdown (from 4.4 to 14.8%; p < 0.001).
before and after the peak of	Psychological abuse was the most frequent type of violence
the epidemic; 30% reduction	(96%). Women who had experienced abuse before the lockdown

of hospital visits for maternal services)  Specific evidence of impact on children (e.g. 30% increase of weight during two weeks of implementation of stay at home policy; or: 'calculated 365,000 extra malaria deaths calculated as a consequence of disruption of bed nets distribution)	were at an increased risk of violence during lockdown (p < 0.001; OR = 19.34 [8.71–43.00])  N/A
Specific evidence of impact on women (e.g. 20% reduction of female employment in the fishing sector, as a result of decreased demand for fish during the epidemic)	The Depression Anxiety and Stress Scales (DASS-21) was used to assess depression and anxiety; The history of domestic violence and its types before and during the lockdown were assessed by yes or no questions. Anxiety, depression symptoms, and stress were found in about 85% of the women. More than half of participants had symptoms of extreme severity for the three axes of the DASS-21 scale. They found that violence against women increased during lockdown from 4.4 to 14.8% (p < 0.001). Psychological violence seemed to be the most frequent type. All those who were abused (96%) experienced psychological (emotional) violence, followed by economic (41%) and then physical violence (10%)
Relevance and importance of the paper for our own systematic review	■ Key paper for the review
Other comments or issues to be noted about this paper	One of the few papers on domestic violence and its links to depression on women

Table S1. Data extraction form for SLR on the health impact of lockdown measures for women and children in LMICs

A cross-sectional study of psychological wellbeing of Indian adults during the Covid-19 lockdown: Different strokes for different folks
Anupam Joya Sharma and Malavika A. Subramanyam, 2020
■ Include
Covid-19
Mixed methods, but primarily a cross sectional survey (n=282) ,informed by 14 qualitative interviews
'lockdown' in India which the authors noted 'restricted citizens' physical mobility, advocated social distancing norms, and limited a majority of public services while allowing the essential ones'

home policy; travel restrictions; school closures;	
market and trade shutdowns; social distancing)	
Broad area of impact explored in the study (please cross out or delete as appropriate)	<ul> <li>73. Mental Health;</li> <li>74. Dietary patterns and nutrition;</li> <li>75. Impact on partner relationships, sexual and reproductive behaviour;</li> <li>76. Other (please specify): social relationships</li> </ul>
Evidence of impact to the general population from lockdown measures (e.g. 10% decrease of disposable income before and after the peak of the epidemic; 30% reduction of hospital visits for maternal services)	Gender Anxiety Disorder Scale scores higher for: LBGT adults v heterosexual adults ( $\beta$ = 2.44) High risk groups v low risk groups ( $\beta$ = 2.20) History of depression v no history of depression ( $\beta$ = 3.89) Those with a history of depression reported higher levels of depressive symptoms ( $\beta$ = 4.34), Those with a history of depression reported higher levels of internet addiction symptoms ( $\beta$ = 4.55) Higher levels of pornography usage in: LBGT adults v heterosexual adults ( $\beta$ = 2.72) High risk groups v low risk groups ( $\beta$ = 2.80) Same-sex partnerships v opposite sex partnerships ( $\beta$ = 9.15) History of depression v no history of depression ( $\beta$ = 2.63) Higher levels of masturbation LBGT adults and those in same-sex partnerships v heterosexual adults ( $\beta$ = 2.07) Those with higher depressive symptoms also reported higher levels of sleep disorders and changes in food consumption
Specific evidence of impact on children (e.g. 30% increase of weight during two weeks of implementation of stay at home policy; or: 'calculated 365,000 extra malaria deaths calculated as a consequence of disruption of bed nets distribution)	No specific evidence of the impact on children was reported
Specific evidence of impact on women (e.g. 20% reduction of female employment in the fishing sector, as a result of decreased demand for fish during the epidemic)	No specific evidence on the impact on women was reported.  Women made up 36.4% of the sample

Relevance and importance of	Paper of some importance for some sections of the review
the paper for our own	
systematic review	
Other comments or issues to	This was a very small sample size (n=282). The sample was
be noted about this paper	very skewed towards those living in urban areas (81% from
	urban areas) and well educated (for example 57.5% had a
	postgraduate qualification!), so it is unclear how
	representative this was of the general population.
	The sampling method was snowballing through personal and
	professional networks.

Table S1. Data extraction form for SLR on the health impact of lockdown measures for women and children in LMICs

Title of the paper:	Community-based health care is an essential component of a resilient health system: evidence from Ebola outbreak in Liberia
Author(s) and date:	Kendra Siekmans, Salim Sohani, Tamba Boima, Florence Koffa, Luay Basil and Saïd Laaziz
Quality appraisal according to the relevant Johanna Briggs Institute tool (please cross out or delete accordingly)	□ Include
Epidemic of reference:	Ebola
Research methods employed (e.g. qualitative interviews; modelling; surveys; systematic review)	Mixed methods: descriptive observational study design used mixed methods to collect data from CHWs (structured survey, n = 60; focus group discussions, n = 16), government health facility workers and project staff.
	Monthly data on child diarrhea and pneumonia treatment were gathered from CHW case registers and local health facility records.
Specific lockdown measure investigated in the study (e.g. generic quarantine or unspecified lockdown measure; curfew; stay at home policy; travel	Study assesses  "the value of a community-based health system in ensuring continued delivery of essential health services in the context of a national crisis (Ebola epidemic) in three Liberian counties."
restrictions; school closures; market and trade shutdowns; social distancing)	So a bit related to lockdown, assuming that Ebola lead to the closure of the health system, but that this community based health system was able to continue
Broad area of impact explored in the study (please cross out or delete as appropriate)	<ul><li>77. Disruption of routine services for mother and child services;</li><li>78. Demand for healthcare / Healthcare seeking behaviour;</li><li>79.</li></ul>
Evidence of impact to the general population from lockdown measures (e.g. 10% decrease of disposable income before and after the peak of the epidemic; 30% reduction	"medicine stocks were available during the outbreak but CHWs reported inability to access them due to travel restrictions and facility closures"

of hospital visits for maternal	
services)	
Specific evidence of impact on	
children (e.g. 30% increase of	
weight during two weeks of	
implementation of stay at	
home policy; or: 'calculated	
365,000 extra malaria deaths	
calculated as a consequence	
of disruption of bed nets	
distribution)	
Specific evidence of impact on	
women (e.g. 20% reduction of	
female employment in the	
fishing sector, as a result of	
decreased demand for fish	
during the epidemic)	
Relevance and importance of	■ Secondary paper
the paper for our own	
systematic review	
Other comments or issues to	Maybe exclude? The paper talks about Ebola in general but
be noted about this paper	not much is directly related to the impact of control
	measures

## Table 16: Data extraction form for SLR on the health impact of lockdown measures for women and children in LMICs

Title of the paper:	Reduced vaccination and the risk of measles and other
	childhood infections post-Ebola
Author(s) and date:	Takahashi et al (2015)
Quality appraisal according to	☐ Include
the relevant Johanna Briggs	
<u>Institute tool</u> (please cross out	
or delete accordingly)	
Epidemic of reference:	Ebola
Research methods employed	Epidemiological and geospatial modelling to predict the number
(e.g. qualitative interviews;	of deaths from unvaccinated areas
modelling; surveys; systematic	
review)	
Specific lockdown measure	Disruption of measles immunization services in Guinea, Liberia
investigated in the study (e.g.	and Sierra Leone during the first 18 months of the Ebola
generic quarantine or	epidemic
unspecified lockdown	
measure; curfew; stay at	
home policy; travel	
restrictions; school closures;	
market and trade shutdowns;	
social distancing)	
Broad area of impact explored	80. Disruption of routine services for mother and child services;
in the study (please cross out	
or delete as appropriate)	

Evidence of impact to the general population from lockdown measures (e.g. 10% decrease of disposable income before and after the peak of the epidemic; 30% reduction of hospital visits for maternal services)  Specific evidence of impact on children (e.g. 30% increase of	Assuming a 75% reduction of vaccination rates, the study projects that after 6 to 18 months of disruptions, a large connected cluster of children unvaccinated for measles will accumulate across Guinea, Liberia, and Sierra Leone. This pool of susceptibility increases the expected size of a regional measles outbreak from 127,000 to 227,000 cases after 18 months, resulting in 2000 to 16,000 additional deaths from multiple infectious diseases in the community.  With every month of health care disruptions, the study estimated that the number of children between 9 months and 5
weight during two weeks of implementation of stay at home policy; or: 'calculated 365,000 extra malaria deaths calculated as a consequence of disruption of bed nets distribution)	years of age who are not vaccinated against measles increases by an average of 19,514, reaching 1,129,376 after 18 months. In the likely case of outbreaks, this susceptibility could generate up to 5,209 additional deaths from measles only.
Specific evidence of impact on women (e.g. 20% reduction of female employment in the fishing sector, as a result of decreased demand for fish during the epidemic)	N/A
Relevance and importance of the paper for our own systematic review	■ Key paper for the review
Other comments or issues to be noted about this paper	Extremely relevant paper from a reputable journal (Science) from a past epidemic.

Table 17: Data extraction form for SLR on the health impact of lockdown measures for women and children in LMICs

Title of the paper:	Mental health and its correlates among children and adolescents
	during COVID-19 school closure: The importance of parent-child
	discussion
Author(s) and date:	Tang et al (2020)
Quality appraisal according to	■ Exclude
the relevant Johanna Briggs	
<u>Institute tool</u> (please cross out	
or delete accordingly)	
Epidemic of reference:	
Research methods employed	
(e.g. qualitative interviews;	
modelling; surveys; systematic	
review)	
Specific lockdown measure	
investigated in the study (e.g.	
generic quarantine or	
unspecified lockdown	
measure; curfew; stay at	
home policy; travel	

restrictions; school closures;	
market and trade shutdowns;	
social distancing)	
Broad area of impact explored	81. Mental Health;
in the study (please cross out	82. Dietary patterns and nutrition;
or delete as appropriate)	83. Physical exercise and impacts on obesity and specific
	diseases such as diabetes;
	84. Disruption of routine services for mother and child services;
	85. Demand for healthcare / Healthcare seeking behaviour;
	86. Impact on partner relationships, sexual and reproductive
	behaviour;
	87. Increases in social vulnerability, poverty and impact on
	human development;
	88. Other (please specify).
	(p. 2 a (p. 2 a
Evidence of impact to the	
general population from	
lockdown measures (e.g. 10%	
decrease of disposable income	
before and after the peak of	
the epidemic; 30% reduction	
of hospital visits for maternal	
services)	
Specific evidence of impact on	
children (e.g. 30% increase of	
weight during two weeks of	
implementation of stay at	
home policy; or: 'calculated	
365,000 extra malaria deaths	
calculated as a consequence	
of disruption of bed nets	
distribution)	
Specific evidence of impact on	
women (e.g. 20% reduction of	
female employment in the	
fishing sector, as a result of	
decreased demand for fish	
during the epidemic)	
Relevance and importance of	Key paper for the review
the paper for our own	Paper of some importance for some sections of the review
systematic review	Secondary paper
Other comments or issues to	Secondary paper
be noted about this paper	
be noted about this paper	

Table 18: Data extraction form for SLR on the health impact of lockdown measures for women and children in LMICs

Title of the paper:	The 2014-2015 Ebola virus disease outbreak and primary
	healthcare delivery in Liberia: Time-series analyses for 2010-
	2016
Author(s) and date:	Wagenaar et al (2018)

	,
Quality appraisal according to	☐ Include
the relevant <u>Johanna Briggs</u>	
<u>Institute tool</u> (please cross out	
or delete accordingly)	
Epidemic of reference:	Ebola
Research methods employed	Time-series analysis
(e.g. qualitative interviews;	
modelling; surveys; systematic	
review)	
Specific lockdown measure	Suspension of healthcare services during the epidemic; stay at
investigated in the study (e.g.	home
generic quarantine or	
unspecified lockdown	
measure; curfew; stay at	
home policy; travel	
restrictions; school closures;	
market and trade shutdowns;	
social distancing)	
Broad area of impact explored	89. Disruption of routine services for mother and child services;
in the study (please cross out	90. Demand for healthcare / Healthcare seeking behaviour;
or delete as appropriate)	
Evidence of impact to the	The authors found that it took only 4 months during the ebola
general population from	epidemic to lose between 35% and 67% of essential primary care
lockdown measures (e.g. 10%	health system outputs across Liberian clinics, and that 19
decrease of disposable income	months post-EVD, all health system indicators had recovered to
before and after the peak of	their pre-EVD levels. They estimated a loss of an estimated
the epidemic; 30% reduction	776,110 clinic visits; 101,857 artemisinin-based combination
of hospital visits for maternal	therapy treatments for malaria, and 45,024 treatments of acute
services)	respiratory infections due to the EVD outbreak will continue to
	severely affect population health.
Specific evidence of impact on	They estimated a loss of 24,449 bacille Calmette-GueÂrin
children (e.g. 30% increase of	vaccinations, 9,129 measles vaccinations, 12,941 first
weight during two weeks of	pentavalent vaccinations, 5,122 institutional births, 17,191
implementation of stay at	postnatal care visits within 6 weeks of birth.
home policy; or: 'calculated	
365,000 extra malaria deaths	
calculated as a consequence	
of disruption of bed nets	
distribution)	
Specific evidence of impact on	N/A
women (e.g. 20% reduction of	
female employment in the	
fishing sector, as a result of	
decreased demand for fish	
during the epidemic)	
Relevance and importance of	Key paper for the review
the paper for our own	
systematic review	

Other comments or issues to	Great to show the loss of health services for children during
be noted about this paper	6 months of the Ebola epidemic in liberia, and that it took
	almost two years for the system to recover.

Table 19: Data extraction form for SLR on the health impact of lockdown measures for women and children in LMICs

Title of the paper:	Indirect effects of the COVID-19 pandemic on malaria
Title of the paper.	intervention coverage, morbidity, and mortality in Africa: a
	geospatial modelling analysis
Author(s) and date:	Weiss et al (2020)
Quality appraisal according to	☐ Include
the relevant Johanna Briggs	melade
Institute tool (please cross out	
or delete accordingly)	
Epidemic of reference:	COVID-19
•	
Research methods employed	Spatiotemporal Bayesian geostatistical models to generate
(e.g. qualitative interviews;	geospatial estimates of the clinical case incidence and mortality of malaria
modelling; surveys; systematic	or maiaria
review)	
Specific lockdown measure	Impact of travel restrictions on availability of health workers;
investigated in the study (e.g.	Trade restrictions on disruption of supply chains of
generic quarantine or	antimalarials and distribution of ITNs;
unspecified lockdown	Stay at home policies on treatment seeking behaviour for
measure; curfew; stay at	antimalarials.
home policy; travel	
restrictions; school closures;	
market and trade shutdowns;	
social distancing)	
Broad area of impact explored	91. Disruption of routine services for mother and child services;
in the study (please cross out	92. Demand for healthcare / Healthcare seeking behaviour;
or delete as appropriate)	
Evidence of impact to the	Under 9 different scenarios of disruption of services, there could
general population from	be additional 215-262 million cases of malaria worldwide, and
lockdown measures (e.g. 10%	between 101-382 thousand extra malaria deaths.
decrease of disposable income	
before and after the peak of	
the epidemic; 30% reduction	
of hospital visits for maternal	
services)	
Specific evidence of impact on	Malaria control relies heavily on the decision making of patients
children (e.g. 30% increase of	and their families, including choosing to leave their homes to
weight during two weeks of	seek care for febrile children and receiving ITNs delivered at
implementation of stay at	antenatal clinics or schools. A substantial proportion of the
home policy; or: 'calculated	additional cases and deaths would be from children <5 years.
365,000 extra malaria deaths	
calculated as a consequence	
of disruption of bed nets	
distribution)	
Specific evidence of impact on	N/A
women (e.g. 20% reduction of	

female employment in the	
fishing sector, as a result of	
decreased demand for fish	
during the epidemic)	
Relevance and importance of	Paper of some importance for some sections of the review
the paper for our own	
systematic review	
Other comments or issues to	
be noted about this paper	

Table S1. Data extraction form for SLR on the health impact of lockdown measures for women and children in LMICs

Title of the paper:	Association between Dhysical Activity and Mood States of
Title of the paper:	Association between Physical Activity and Mood States of
	Children and Adolescents in Social Isolation during the COVID-19
A 11 /-> 1 -1 -1	Epidemic Cife Keep Land Cife Tile Cife Keep Land Cife Tile Land
Author(s) and date:	Xinxin Zhang , Wenfei Zhu , Sifan Kang, Longkun Qiu, Zijun Lu
	and Yuliang Sun
Quality appraisal according to	■ Include
the relevant <u>Johanna Briggs</u>	
<u>Institute tool</u> (please cross out	
or delete accordingly)	
Epidemic of reference:	Covid-19
Research methods employed	Survey. N=9979 students at primary schools years 4-6. Average
(e.g. qualitative interviews;	age 11.63 + or – 1.23 years
modelling; surveys; systematic	
review)	
Specific lockdown measure	Impact of social isolation. Article mentions:
investigated in the study (e.g.	
generic quarantine or	"partial blockade" and "social isolation" strategies by closing
unspecified lockdown	schools, factories and other public places. People are required to
measure; curfew; stay at	stay at home."
home policy; travel	•
restrictions; school closures;	Conducted online
market and trade shutdowns;	Hosted on an online data collection site in China
social distancing)	
Broad area of impact explored	93. Mental Health;
in the study (please cross out	94. Physical exercise and impacts on obesity and specific
or delete as appropriate)	diseases such as diabetes;
	95.
Evidence of impact to the	<del></del>
general population from	
lockdown measures (e.g. 10%	
decrease of disposable income	
before and after the peak of	
the epidemic; 30% reduction	
of hospital visits for maternal	
services)	
Specific evidence of impact on	51% boys 49% girls
children (e.g. 30% increase of	- 0 = 10 10 10 10 10 10 10 10 10 10 10 10 10
weight during two weeks of	
Weight during two weeks of	

implementation of stay at Reduced physical activity – 23.19 minutes per day in home policy; or: 'calculated comparison to other studies in non-epidemic times in China that 365,000 extra malaria deaths had reported 35 minutes and 41.1 minutes per day calculated as a consequence of disruption of bed nets This was primarily due to the schools shutting and the need to distribution) isolate. The study (actually the main focus of it) found a significant relationship between reduced physical activity and mood states. Children with higher physical activity in this sample had lower levels of negative moods (In the negative mood subscale, the total scores of Depression, Confusion, Anger, and Fatigue) Boys had higher rates of negative moods than girls Boys had less MVPA and moderate PA than girls. Specific evidence of impact on women (e.g. 20% reduction of female employment in the fishing sector, as a result of decreased demand for fish during the epidemic) Relevance and importance of Paper of some importance for some sections of the review the paper for our own systematic review Other comments or issues to A large sample. However, lockdown was not necessarily the focus here be noted about this paper

Table 20: Data extraction form for SLR on the health impact of lockdown measures for women and children in LMICs

Title of the paper:	Routine childhood immunisation during the COVID-19 pandemic in Africa: a benefit-risk analysis of health benefits versus excess risk of SARS-CoV-2 infection
Author(s) and date:	Abbas et al (2020)
Quality appraisal according to the relevant Johanna Briggs	□ Include
Institute tool (please cross out or delete accordingly)	
Epidemic of reference:	COVID-19
Research methods employed (e.g. qualitative interviews; modelling; surveys; systematic review)	Modelling risk-benefit analysis
Specific lockdown measure investigated in the study (e.g. generic quarantine or	Disruption of all immunization campaigns and services

unspecified lockdown	
measure; curfew; stay at	
home policy; travel	
restrictions; school closures;	
market and trade shutdowns;	
social distancing)	
Broad area of impact explored	96. Disruption of routine services for mother and child services;
in the study (please cross out	
or delete as appropriate)	
Evidence of impact to the	The benefit of routine childhood immunisation programmes in
general population from	all 54 African countries was found to be greater than the COVID-
lockdown measures (e.g. 10%	19 risk associated with these vaccination clinic visits.
decrease of disposable income	
before and after the peak of	
the epidemic; 30% reduction	
of hospital visits for maternal	
services)	
Specific evidence of impact on	For every one excess COVID-19 death attributable to SARS-CoV-2
children (e.g. 30% increase of	infections acquired during routine vaccination clinic visits, 84
weight during two weeks of	deaths in children up to 5 years of age could be prevented by
implementation of stay at	sustaining routine childhood immunisation in Africa.
home policy; or: 'calculated	
365,000 extra malaria deaths	
calculated as a consequence	
of disruption of bed nets	
distribution)	
Specific evidence of impact on	
women (e.g. 20% reduction of	
female employment in the	
fishing sector, as a result of	
decreased demand for fish	
during the epidemic)	
Relevance and importance of	Key paper for the review
the paper for our own	
systematic review	
Other comments or issues to	Very important argument that sustaining the immunization
be noted about this paper	programmes in Africa would vastly offsets the COVID-19
	deaths under all scenarios.
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