Supplement to: Shukla S, Kharade A, Böhret I, Jumaniyazova M, Omolade Abejirinde IO, Meyer SR, Shenderovich Y, Steinert JI. How do gender transformative interventions reduce adolescent pregnancy in low and middle-income countries? A realist synthesis. J Glob Health. 2025;15:04102.

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# Document 2: CMO extraction codebook 1

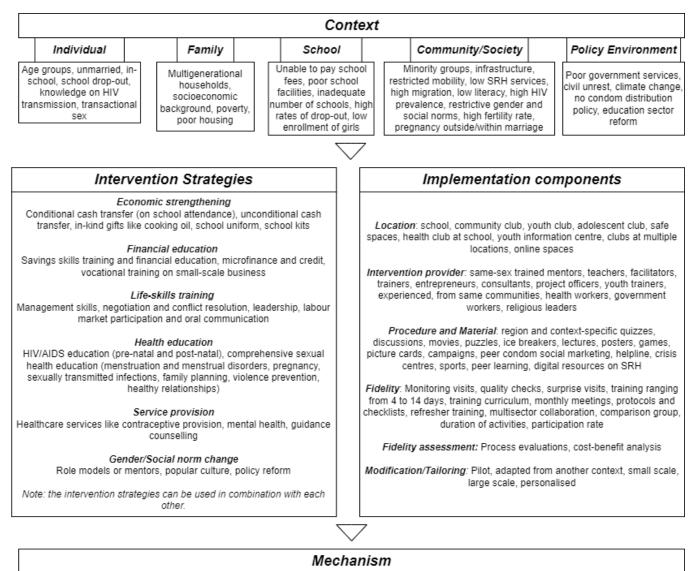
Study	Study details									
Study	Publication	Publication	Geographic	Target	Target	Sampling	Sample	Sample size	Туре	Aim of
ID	type	year	area	population	Age		characteristics	(only	of	study
								adolescents)	study	

Intervention	Intervention										
Intervention	Aim	Intervention Strategy	Details/	Duration/	Adaptation (from	Description	of staff,	their			
name		(e.g. education, skills	Activities/	Frequency	another	training, their	supervision	1			
		training,	Content		intervention)						
		communication									
		campaign etc.)									

Context		Mechanism				
Setting (i.e. community, school	Individual characteristics (participar	's Theoretical or hypothesised in the intro/ methods/				
etc; region characteristics)	family/HH background, economic back. et	discussion/ results)				

Outcome					
Type of outcomes	Measures (Outcome of interest)	Time measur	frame es	of	Findings (including adverse effects)

#### Document 3: Initial intervention framework



Empowerment: resources, agency, decision-making capacity, achievement of capabilities Economic empowerment: access to funds, control over funds and benefit from them, power to make decision Learning/experiential learning: experience, retention of knowledge/skills, reflection, reproduction of skills, motivation to do more Social capital: trust, feeling of belonging, participation, relationship with others, acceptance/approval from others Human capital: knowledge, skill, judgement

Self-Determination: autonomy, competence, relatedness to others

Peer relations: social comparison, conformity, modelling, peer pressure, socialization and feedback Collective efficacy: shared experiences, emotional support, vicarious learning and role modelling



#### Outcome

Intermediate: contraceptive use, delay in sexual debut, delay in early marriage, continued schooling, changes in gender and social norms, decreased household economic stress, access to SRH services

Distal: Reduced adolescent childbearing or unwanted or unintended pregnancy/ decrease in the number of births to under 19 girls/ increase in adolescent pregnancy/ delayed age at first birth/ reduction in adolescent fertility rate/ reduction in repeat adolescent pregnancy

#### Initial programme theories

1. If adolescent girls living in low socioeconomic areas with limited economic resources (C) receive free education and financial assistance to attend school, mainly secondary and higher secondary level (M-Resource), then they tend to marry later in life and have fewer children (O) because education empowers them to decide independently and gives them the confidence to voice their opinions (M-Reasoning). Further, economic assistance increases the family's income (M-Resource), enabling them to sustain the girl's education without compromising on essential expenses (M-Reasoning).

2. If adolescent girls residing in HIV-prevalent areas (C) are provided comprehensive sex education in junior school, facilitated by local, trained, and motivated educators of the same sex, utilising interactive techniques such as videos, quizzes, problem-solving games, and group discussions (M-Resource), then her age of sexual debut increases, resulting in delayed initiation of sexual activity and the number of sexual partners she engages with also decreases, leading to a reduction in risky sexual behaviour (O) because she has accurate and reliable information about safe sex practices to make responsible choices (M-Reasoning) and because her beliefs about gender roles change promoting more equitable attitudes and behaviours (M-Reasoning).

3. If adolescent girls residing in conflict-prone areas with prevalent restrictive social norms such as child marriage and bride price (C) are exposed to intervention activities aimed at reducing gender-based violence, providing educational supplies and cash transfers, offering health education, and facilitating money-saving activities through trained local mentors (M-Resource), then girls use condoms and delay sexual debut which contributes to a decline in overall rates of adolescent pregnancy (O) because they can negotiate for a safer sexual environment, assert their boundaries and advocate for their sexual health (M-Reasoning). They are motivated to set goals and apply the knowledge they acquire to generate funds and improve their economic situation because their decision-making capacity improves in favour of long-term goals and well-being (M-Reasoning).

4. If out-of-school adolescent girls living in densely populated communities (C) are provided with health services, sex education, vocational training, micro-credit, and social support services coupled with counselling (M-Resource), then rates of childbearing reduce (O) because girls have access to income-generating opportunities which increases their financial independence and mobility (M-Reasoning). They have access to health services that enhance their ability to make choices that align with their desired outcomes, and they have greater agency and control over their lives through the guidance and support of counsellors (M-Reasoning).

5. If adolescent girls living in rural communities with a high prevalence of child marriage and low socioeconomic status (C) are offered a safe space facilitated by trained, local same-sex mentors to openly discuss sexual and reproductive health and rights, in addition to receiving soft-skills training (M-Resource), then adolescent pregnancy reduces (O) because adolescent girls gain a sense of belonging and support, enabling them to navigate challenges related to sexual and reproductive health, they gain valuable abilities such as communication, negotiation, and critical thinking to understand their rights better, communicate their needs effectively, and make informed choices regarding their sexual and reproductive health (M-Reasoning). Further, they engage in dialogue with peers and challenge and reshape traditional beliefs and practices around child marriage and girls' household decision-making power (M- Reasoning).

6. If young boys and girls living in rural settings (C) are provided with an integrated intervention with a focus on effective communication within the community, training health workers to deliver youth-friendly services, and ensuring access to comprehensive health services (M-Resource), then adolescent pregnancy reduces (O) because gendered beliefs among community members and within families undergo a positive transformation as communication helps break down barriers and stigmas surrounding reproductive health (M-Reasoning). Further, individuals gain knowledge on reproductive health issues, including pregnancy prevention and family planning (M-Resource), and this newfound understanding empowers them to challenge and modify their existing gendered beliefs (M-Reasoning). Finally, accessible and youth-friendly healthcare (M-Resources) empowers individuals to seek assistance and make decisions that align with their reproductive goals (M-Reasoning).

7. If adolescent girls aged 14-20 years living in communities with restrictive gender norms (C) are provided with an integrated intervention at an adolescent club in the community, including vocational skills training like hairdressing, tailoring, computing, agriculture, and small trades; life skills education on negotiation, conflict resolution, and leadership; sexual and reproductive health education; mentorship; and microfinance facilitated by trained female mentors from their community (M-Resources) then condom use increases and incidence of childbearing reduces (O) because girls engage in income generating activities thereby improving their economic prospects and financial independence and reduce dependency on men (M-Reasoning). Further, girls' knowledge of health-related topics (M-Resources) increases their self-confidence and decision-making skills, enabling them to make informed choices regarding their health, relationships, and future aspirations (M-Reasoning). Lastly, clubs provide a supportive and safe environment (M-Resources) and enable girls to form close connections with their peers, thereby increasing their social capital (M-Reasoning).

8. If adolescent girls at school (C) are provided HIV-related sex education on the risks associated with relationships with older men using in-class quizzes, discussions, videos, and lectures by trained teachers (M-Resources), then unprotected sex and teenage pregnancy will reduce (O) because girls will engage in concrete plan formation about reducing their relative risk of pregnancy with older vs younger partners by planning for specific strategies, such as abstaining from sexual activity (M-Reasoning). Further, knowledge about HIV transmission and prevention (M-Resources) will enhance their understanding of applying different strategies. Lastly, observing their peer's reactions in a group setting (M-Resources) will influence girls' second-order beliefs, leading them to align their behaviours with what they perceive as socially desirable and safe (M-Reasoning).

## Document 5: Expert Consultation questions (Round 1 – IPT)

Based on your experience in the implementation of science/ sexual and reproductive health programs:

- Are the context categories mentioned in the initial program theory relevant to gender transformative interventions? What else would you add to these categories that we still need to consider? Or What would you delete, given they are not as important? Or would you suggest a different set of categories?
- 2. What do you think about the intervention strategies and techniques mentioned in the flowchart? Are they well suited to impact adolescent pregnancy? When will they make the maximum impact? Will you add another strategy/technique or delete any of them, why?
- 3. What is your opinion on how a gender transformative intervention might cause its outcomes? How do you think the mentioned IPTs might cause or help to cause a reduction in adolescent pregnancy?
- 4. What do you think about the proposed mechanisms in the IPTs? Which mechanisms, according to you, are the most important in bringing long-lasting behaviour change?
- 5. Do you think the outcomes will be the same for all adolescents (boys, girls)? In what ways will they be different?
- 6. If you could change something about the IPTs to make it more relevant or understandable, what would you change and why?

# Document 6: Search Strategy

Number	Criteria	Terms
1	Adolescent	adolescent* OR teen* OR young people OR youth* OR school age* OR juvenile* OR minor OR minors OR youngster* OR underage* OR teenager* OR emerging adult* OR early adulthood OR young adult* OR
		young women OR young men OR boy OR boys OR girl OR girls
2	Adolescent pregnancy	Adolescent pregnancy OR teen pregnancy OR teenage pregnancy OR young maternal age OR early pregnancy OR unintended pregnancy OR unwanted pregnancy OR adolescent childbearing OR adolescent motherhood OR teenage motherhood OR teenage childbearing OR young maternal health OR adolescent fertility
3	Gender transformative interventions	GTP OR GTI OR gender transformative interventions OR gender transformative programs OR gender transformative approaches OR GTA OR gender transformative initiative OR gender program OR gender intervention OR gender project OR gender inequality OR gender norms OR gender OR gender club OR gender training OR power inequity
4	Low- and middle- income countries (LMICs)	Afghanistan OR Albania OR Algeria OR Angola OR Antigua OR Barbuda OR Argentina OR Armenia OR Armenia OR Armenia OR Armenia OR Armenia OR Armenia OR Artenenian OR Azerbaijan OR Bahrain OR Bangladesh OR Barbados OR Benin OR Byelarus OR Byelorussian OR Belarus OR Belorussia OR Belize OR Bhutan OR Bolivia OR Bossnia OR Herzegovina OR Hercegovina OR Botswana OR Brasil OR Brazil of Bulgaria OR Burkina Faso OR Burkina Faso OR Upper Volta OR Burundi OR Cambodia OR Khmer Republic OR Kampuchea OR Cameron* OR Camerons OR Cape Verde OR Central African Republic OR Chad OR Chile OR China OR Colombia OR Comoros OR Comoro Islands OR ComORes OR Mayotte OR Congo OR Zaire OR Costa Rica OR Cote divoire OR Ivory Coast OR Croatia OR Cuba OR Cyprus OR Czechoslovakia OR Czech Republic OR Dijbouti OR French Somaliland OR Dominica OR Dominican Republic OR East Timor OR East Timur OR Timor Leste OR Ecuador OR Egypt OR United Arab Republic OR El Salvador OR Eritrea OR Estonia OR Ethiopia OR Fiji OR Gabon OR Gabonese Republic OR Gambia OR Gaza OR Georgia Republic OR Georgian Republic OR Georgian Republic OR Gana OR Guana OR Jamaica OR Jordan OR Kazaktsan OR Kazakt OR Kenya OR Kiribati OR Korea OR Kosovo OR Kyrgystan OR Kirghizia OR Kyrgyz Republic OR Kirgiz CR Kirgizatan OR Lao PDR OR Laos OR Latvia OR Lebanon OR Lesotho OR Batusoland OR Malay OR Sabah OR Sarawak OR Madayai OR Nyasaland OR Mulco OR Micronesia OR Micronesia OR Micronesia OR Micronesia OR Micronesia OR Micronesia OR Neator OR Moldoviaa OR Moldovia OR Moldovia OR Montenegro OR Morccco OR Ifni OR Masian OR Palausi OR Nyanama OR Burma OR Samoa OR Palausi OR Nepal OR Neger OR Malay OR Sabah OR Sarawak OR Montenegro OR Morccco OR Ifni OR Mazasian OR Palau OR Palestine of Panama OR Northern Mariana Islands OR Omania OR Rusati OR Sato Tome OR Saudi Arabia OR Samoa OR Samaa Islands OR Montenegro OR Seychelles OR Suira OR Palau OR Palestine OF Panama OR Samoa OR Samoa ISlands OR Nontenegro OR Seychelles OR Suira OR Saoa Tome OR Saudi Arabia OR Soano OR Somaalia OR Saviga OR Saba OR S

Relevance	Richness	Rigour
<ol> <li>Include         <ol> <li>Documents where the majority of the study participants under the age of 20 OR data is age disaggregated for adolescents, AND</li> <li>One of the outcomes is adolescent pregnancy/ adolescent fertility/ age at pregnancy, AND</li> <li>Documents from LMICs, AND</li> <li>Documents discussing a gender transformative intervention, AND</li> <li>Any study design/article type, except for reviews/meta-analyses</li> </ol> </li> <li>Exclude         <ol> <li>Documents with no adolescent in the participant sample, OR</li> <li>Documents from high-income countries OR</li> <li>Documents not including a gender transformative intervention, OR</li> </ol> </li> </ol>	Information on causal pathways, theoretical models, conceptual framework or theory of change involved in the intervention design that explains how it is expected to work. Rating: 1. Low There is little or no information on the intervention context, strategy, implementation process, or mechanism that could contribute to the development of new program theories or refinement of IPTs. 2. Medium There is some information on intervention context, strategy, implementation process, or mechanism. 3. High There is a rich description of all aspects of the IPTs, including intervention context, strategy, implementation process, or mechanism.	Trustworthiness and credibility of the data source and methods used for analysis. Based on JBL checklists[46], the following questions were devised to evaluate rigour: 1. The sample size and sampling strategy were adequate 2. Data collection and analysis methods were adequate 3. Outcome measures were reliable 4. Research ethics were followed 5. The CMOs listed were justifiable Rating: 1. Low Scores 1 out of 5 measures listed above 2. Medium Scores 2 out of 5 measures listed above 3. High Scores 3 or more out of the measures listed above

# Document 8: Data extraction form

	Study Details			Stud					/ Details				
Extracted	Study	Author	Paper	Journal	Publication	Publication	Continent	Country	Target	Age group	Adolescent	Туре	Aim of study
by	ID	names	title	name/source	type	year			population	of target	sample size	of	(Paste from
									(This can be	population	(How many	study	paper if
									in	included	adolescents		available,
									combination	in the	were		otherwise
									with	study	included in		write a aim
									adolescents)		the study)		based on own
													understanding)

	Intervention									
Intervention	Intervention	Details/	Location of	Intervention	Duration/	Adaptation	Description of	Monitoring	Quality	
name	Strategy (e.g.	Activities/	intervention	target	Frequency	(Name and	implementors/staff,	and	(What methods	
	education,	Content	(Venue at	(girls only,	(How long	location of	their training, their	evaluation	they used to	
	skills training,	(Write/paste	which the	girls and	did the	the previous	supervision		ensure the	
	communication	details of	intervention	parents,	intervention	intervention)			quality of the	
	campaign etc.)	each	was	girls and	last, how				intervention eg.	
		intervention	implemented,	boys, etc.)	many times				process	
		strategy)	eg. class,		was it				evaluation,	
			community,		conducted)				surprise visits	
			youth club						etc)	
			etc)							

	Context							
Setting	Individual characteristics	Level of context targeted by intervention						
(Details on community, school, region,	(Characteristics of adolescents included in the study eg.	(Individual, family, community, school, policy)						
country, policy context or	vulnerability characteristics like ultra poor, orphans, school							
characteristics)"	dropouts etc)							

Mechanism						
Theoretical or hypothesised	Resource and reasoning					
(Models/Theoretical Frameworks mentioned in the intro/	(Resources: components that are introduced by the programme under study (eg. interaction					
methods/ discussion/ results), eg socioecological theory)	between students and counsellors). Reasoning refers to human responses triggered by the					
	introduction of the resource. (eg. trust, rapport building)					

Outcome							
Measure of adolescent pregnancy	Other outcomes measured	Time frame of measures (Months, time frame per intervention/arm)	Findings (Include adverse effects, impact of the intervention on adolescent pregnancy or other SRH outcomes like condom use, sexual violence etc if it is related to it)				

Measures of gender norms or social norms change	Measures of empowerment	Relevant IPT(s)	Additional Information & Excerpts from Text	Notes and Gaps	Cost effectiveness/ Funding	Partners
Details of the variable or outcomes specific to gender norm and social norm change.	Note empowerment outcomes if measured.	Mention which IPT might fit this paper (Refer to the protocol)	Paste details from paper that gives evidence on potential connection between context mechanism and outcome	decision-making process that you	Details on cost- effectiveness and funding if provided	

### Document 9: Feedback form for experts on refined theories

Option 1: On Google forms

Option 2: Feedback after presentation

Option 3: In-person meeting

Introduction: This form/presentation presents eight programme theories (PT) developed by synthesising data during the realist review process on how gender transformative interventions work to prevent adolescent pregnancy in low- and middle-income settings. Kindly provide your feedback on the PT based on your experience in the field of implementation science/sexual and reproductive health programmes/ gender transformative programmes.

For each programme theory:

1. Is the programme theory clear? Does it need more explanation?

- Yes, it is clear
- No, it is unclear
- If unclear: please explain

2. In your experience, would you say that this PT is relevant to gender transformative interventions on adolescent pregnancy?

- Yes
- No
- Other: please explain

3. In your work, have you experienced this PT (strategies and theoretical underpinnings) or forms of this PT?

- Yes, I have seen or experienced this PT
- No, I have not seen this PT but it seems plausible
- No, this differs from my experience
- Other: please explain

4. We found evidence both for and against this PT in how it potentially leads to a reduction in the incidence of adolescent pregnancy. In your expert opinion, could you suggest potential reasons on why this PT might not work to reduce the incidence of adolescent pregnancy?

Open answer:

5. Based on your expertise, do you have any suggestions for refining or strengthening the PT to enhance its explanatory power or practical utility? Any other thoughts on this PT?

Open answer:

Wong G, Greenhalgh T, Westhorp G, Buckingham J, Pawson R. RAMESES publication standards: realist	
syntheses. BMC Med. 2013;11:21.	

SECTION			Page # in Manuscript
TITLE			·
1	In the title, identify t	Title page	
ABSTRACT	•		
2	page 2		
INTRODUC	CTION		
3	Rationale for review	Explain why the review is needed and what it is likely to contribute to existing understanding of the topic area.	page 3 - Introduction
4	Objectives and focus of review	page 3 - Introduction	
METHODS		1	
5	Changes in the review process	Any changes made to the review process that was initially planned should be briefly described and justified.	No. Process as outlined in the protocol.
6	Rationale for using realist synthesis	Explain why realist synthesis was considered the most appropriate method to use.	page 3 - Introduction
7	Scoping the literature	Describe and justify the initial process of exploratory scoping of the literature.	page 4, 5 – Methods + described in protocol
8	Searching processes	While considering specific requirements of the journal or other publication outlet, state and provide a rationale for how the iterative searching was done. Provide details on all the sources accessed for information in the review. Where searching in electronic databases has taken place, the details should include, for example, name of database, search terms, dates of coverage and date last searched. If individuals familiar with the relevant literature and/or topic	page 5 – Systematic search

SECTIO	Ν		Page # in Manuscript
TITLE			
		area were contacted, indicate how they were identified and selected.	
9	Selection and appraisal of documents	Explain how judgements were made about including and excluding data from documents, and justify these.	page 5 – Stage 3 Data appraisal
10	Data extraction	Describe and explain which data or information were extracted from the included documents and justify this selection.	page 5 – data extraction
11	Analysis and synthesis processes	Describe the analysis and synthesis processes in detail. This section should include information on the constructs analyzed and describe the analytic process.	page 5-6 – Development of refined programme theories
RESULT	TS		
12	Document flow diagram	Provide details on the number of documents assessed for eligibility and included in the review with reasons for exclusion at each stage as well as an indication of their source of origin (for example, from searching databases, reference lists and so on). You may consider using the example templates (which are likely to need modification to suit the data) that are provided.	Figure 2
13	Document characteristics	Provide information on the characteristics of the documents included in the review.	page 7 – results
14	Main findings	Present the key findings with a specific focus on theory building and testing.	pages 7-18 – results
DISCUS	SION	1	
15	Summary of findings	Summarize the main findings, taking into account the review's objective(s), research question(s), focus and intended audience(s).	pages 19-21 – discussion

SECTION			Page # in Manuscript
TITLE			1
16	Strengths, limitations and future research directions	Discuss both the strengths of the review and its limitations. These should include (but need not be restricted to) (a) consideration of all the steps in the review process and (b) comment on the overall strength of evidence supporting the explanatory insights which emerged. The limitations identified may point to areas where further work is needed.	page 21 - strengths & limitations
17	Comparison with existing literature	Where applicable, compare and contrast the review's findings with the existing literature (for example, other reviews) on the same topic.	pages 19-21 – discussion
18	Conclusion and recommendations	List the main implications of the findings and place these in the context of other relevant literature. If appropriate, offer recommendations for policy and practice.	page 21 – conclusion
19	Funding	Provide details of funding source (if any) for the review, the role played by the funder (if any) and any conflicts of interests of the reviewers.	Title page

### Document 11: CMOCs table

Study ID	Intervention	Intervention	Context(s)	Mechanism(s) -	Mechanism(s) -	Outcome(s)	If-then-because statement	Relevant IPT
	name	design features		Resource	Reasoning		(CSMOC)	(protocol)
Ainul2022	<b>Keeping Girls</b>	School capacity	Schools	Capacity building of	Capacity building of	In	1. If schools in low-	Material resource
	in Schools	building -	with	teachers, laptops,	school and teachers	intervention	resource settings (C) are	in school - social
	(KGIS)	teachers and	limited	internet, projector	will sustain the	areas -	provided capacity building	norms (new)
		classroom	resources	in school	intervention even	Intermediate	in the form of teacher	
		equipment;			after it ends. This	: decrease in	training to better equip	
		mobile			may provide	child	them to provide needs-	
		classroom			resources to all	marriage,	based support in subjects	
		(COVID)			adolescent girls and	decrease in	like Maths and English,	
					lead to overall gains	school	classroom equipment like	
					in education and	dropout due	laptops, internet and	
					health outcomes. The	to CM,	projector and mentor	
					school context and	increase in	support to discuss gender-	
					prevalent social	contraceptiv	related inequality (M-Res)	
					norms have a	e use	then the school will see	
					positive change.		overall gains in education	
							and health outcomes (IO)	
							because teachers will be	
							more involved with	
							students to discuss their	
							problems in various	
							subjects and mentors will	
							be able to discuss topics of	
							SRH which will reduce	
							stigma on these topics. The	
							students will be interested	
							in learning and will	
							regularly come to school to	
							use the new equipment.	

			This will create positive social norms changes in the school environment (M- Rea) which acts as a safe space for girls.	

	Т						
W	Veekly O	Dut of	Mentorship and	Mentors will act as	Main:	3. If vulnerable adolescent	IPT 5, 2, 4, 7 (life
m	neetings with sc	chool	role model in	role model - provide	decrease in	girls both in school and out	skill education +
m	nentors, peers gi	irls, girls	community - young	motivation and	adolescent	of school (C) are provided	safe space +
	in	n school	women - provided	increase aspiration to	pregnancy	life skill sessions, including	mentor)
			constant support,	do new things		computer training and	
			weekly group			basic health services skills	
			meeting			with female mentors from	
			C			the community in a safe	
						, group setting (M-Res), then	
						they may be involved in	
						new job opportunities, may	
						study more, postpone	
						marriage and pregnancy	
						(O) because <b>girls</b> will	
						experience low social	
						isolation/ build social	
						networks, gain problem-	
						solving skills, gain technical	
						know-how, get regular	
						support from friends and	
						mentors which will lead to	
						an increase <b>in</b> human and	
						social capital and <b>they</b> will	
						have improved decision	
						making capacity (M-Rea).	

Meetings with C	Out of	Skill building	Skill session on	4. If out-of-school girls (C)	IPT 1, 3
mentors, peers s	school girls	session on	computer, health and	are provided financial	
v	with	computer skills,	finance literacy will	education by a female	
f	inancial	finance literacy,	increase the	mentor from the	
r	esponsibil	health services	knowledge of girls on	community combined with	
it	ties in the		these topics, will give	cash transfers for the most	
fa	amily		them alternative	vulnerable girls (M-Res),	
			ideas about income	then they may have more	
			generation with	livelihood opportunities,	
			updated technical	which may lead to	
			skills required in	postponement of marriage	
			today's world -	and subsequent pregnancy	
			learning by doing will	(O) because they will have	
			help retain and apply	the job-relevant skills -	
			knowledge - increase	learning by doing will help	
			human capital and	them retain and apply	
			social network	knowledge - which will	
			Regular meetings	increase their human	
			with peers and	capital. They will have	
			mentors will reduce	decreased economic	
			social isolation - will	dependence on their	
			give girls a place to	families which may	
			share their ideas,	increase their decision	
			thoughts and	making capacity. Regular	
			feelings, this will	meetings with mentor will	
			increase social	also increase social	
			connectedness and	connectedness and give	
			build trust - overall	girls the opportunity to	
			increase in social	form a social network	
			capital	 reducing social isolation	

	Direct cash transfer	Cash transfer will	and find gainful	
	to most	provide resources to	empolyment (M-Rea).	
	disadvantaged girls	families to keep girls		
	with economic	in school - economic		
	responsibilities	empowerment of		
		girls and family -		
		opportunity cost -		
		dependence on		
		parents slightly		
		reduced		
Family and High o	child Family and	Meeting with family	5. If families in	Community
community marri	age community	and community will	communities with high	engagement
meeting	engagement -	increase awareness	child marriage prevalence	(new), IPT 6
	awarness on CM,	on adverse effects of	(C) are engaged in group	
	health, education,	CM - will increase	meetings with teachers and	
	employment	understanding of	mentors on adverse effects	
		girls lived realities -	of Child Marriage on	
		this will increase	adolescent girls, like impact	
		support for	on health, education, and	
		education, skill	employment opportunities	
		building and shift	(M-Res) then child	
		social and gender	marriages may reduce (O)	
		norms to support	because the people in the	
		girls	community will have an	
			increased understanding of	
			the lived realities of girls -	
			which will increase support	
			for education, skill building	
			and shift social and gender	
			norms to support girls and	
			their future aspirations (M-	
			Rea).	

Ajayi2021	In their Hands	Trained	Counties	Community	Support: Community	Intermediate	6. If families living in high	Community
Αjayi2U21	(t-safe)		with	sensitization on	based awareness	: Sexual		,
		community					teenage pregnancy, STI and	engagement/gen
	program	health	highest	adolescent SRH and	programs and	activity and	HIV prevalent areas (C) are	der social norm
		volunteers	rates of	a radio program	parental discussions	relationships	targeted for community	change (new), IPT
		conducting	teenage	focused on parents	on SRH needs -	;	sensitisation on adolescent	6
		mobilization,	pregnancy	to promote	create a supportive	SRH	SRH through a radio	
		peer network		communication	environment where	knowledge;	program on non-	
				between parents	adolescents can talk	contraceptiv	judgemental	
				and their	to their parents	e knowledge,	communication between	
				adolescents.	without judgment -	access,	parents and adolescents on	
					this creates an	choice and	sexual health (M-Res) then	
					environment where	contraceptiv	parents and adolescents	
					girls feel supported	e decision-	will discuss SRH topics	
					to make the right	making - use.	freely, adolescents' SRH	
					choice. Gap filled the	Exposure to	knowledge will increase,	
					Tenuous nature of	family	and their contraceptive	
					their relationship	planning	knowledge will increase	
					situation.	messages	subsequently leading to	
							increase in contraceptive	
							use and reduction in	
							adolescent pregnancy (O)	
							because adolescents will	
							have a supportive	
							environment in their	
							families and communities	
							where they can discuss	
							sensitive topics, and have	
							the power to make the	
							right choice for	
							themselves.	

Wado2020	Phone and app	Highest	Digital platform	Need: when girls	Main: adol	7. If adolescent girls living	Digital health
	to access	unmet	that gives access to	have access to a	preg	in high teenage pregnancy,	(new)
	information and	need for	information on	digital platform (in		STI and HIV prevalent areas	
	services	contracept	SRH, free access to	their control,		(C) are provided access to a	
		ion among	to youth-friendly	anonymous) with		digital health platform/app	
		adolescent	facility - enrolling	information on SRH		with information on SRH,	
		S	either self or via ref	and how to access		free access to youth health	
			of a friend	free services they		facilities, and pharmacies	
				value their sexual		selling health products (M-	
				health and want		Res) then adolescents will	
				explore these		increase their use of	
				services as her own		contraceptives, decrease	
				choice. Gap filled:		unprotected sex, test for	
				Misinformation and		pregnancy and STI (O)	
				misconceptions		because they have control	
				regarding		over what type of	
				contraceptives' side		information they access	
				effect like infertility.		decreasing misinformation	
				Lack of information		and misconception, how	
				on how to prevent		they access it and keep it	
				pregnancies before		anonymous thourgh the	
				sexual debut		app. They also have the	
						choice to visit the health	
						facility or pharmacy to get	
						health products without	
						being dependent on elders	
						for funds. This will increase	
						their overall sexual health	
						agency and choice (M-Rea).	

Youth friendly	High rates	Services like	On my terms: When	8. If adolescents (both boys	IPT 6
facilities and	of new	counseling for	SRH services on	and girls) living in high	
pharmacies	STIs and	contraception and	contraceptive	teenage pregnancy, STI and	
	HIV	HIV self-testing,	methods and HIV or	HIV prevalent areas (C) are	
		contraceptives, and	preg testing are	provided free health	
		pregnancy testing.	provided by youth	products like counselling	
			friendly	for contraceptives, HIV	
			orgnanization	self-test kits,	
			(private or NGO) that	contraceptives and	
			understand girls'	pregnancy testing at a	
			needs and do not	youth-friendly health	
			stigmatize them then	facility (M-Res) then they	
			girls are enabled to	will increase the use of	
			choose their	contraceptives and tests,	
			contraceptive	decrease unprotected sex	
			methods or tests on	which will subsequently	
			their terms and	reduce adolescent	
			holding providers	pregnancy (O) because	
			accountable. Filling	they will have access to	
			gap: Lack of trusted	information from a trusted	
			people to counsel	health professional who	
			young girls	understands their needs,	
			confidentially on	does not stigmatize the	
			sexuality issues in	subject, and keeps the	
			general and	information confidential.	
			pregnancy	The free access also	
			prevention.	reduces financial	
				dependence on parents	
				and gives adolescents the	
				power to make their own	
				choices.	

Baird2019	Education,	Cash transfer at	Agricultura	Cash grants to in	the causal pathway	marriage,	9. If adolescent girls	IPT 1, 3
	cash transfer,	a local facility	l area,	school and out of	to improved welfare	school	belonging to poverty-	(economic
	and Health		poor	school girls	over the long run is	dropout, SRH	stricken areas with low	incentive and
	Risk (SIHR)		backgroun		more likely to be	knowledge,	school retention, low	financial training)
			d, informal		human capital	labor market	formal employment	
			jobs, few		accumulation, either	skills	opportunities and high	
			formal job		in the form of		incidence of child marriage	
			opportunit		education and skills		and teen pregnancy (C) are	
			ies. In		or health especially		provided unconditional	
			school and		reproductive and		cash transfers, then their	
			out of		sexual health for		families might have	
			school girls		adolescent females.		increased financial capacity	
			at				to either send them to	
			baseline.				school or to invest in their	
							employability or use it for	
							other purposes - which	
							may (in short term) or may	
							not (long term) lead to	
							decrease in child marriage	
							and adolescent pregnancy	
							because there is no clear	
							pathway to ensure that the	
							benefit goes to the girls.	

Low	UCTs increase school	Main:	10. If school-going girls	IPT 2
secondary	enrollment indicates	adolescent	belonging to poverty-	
school	that poverty is an	pregnancy	stricken areas with low	
completio	important cause of		school retention, low	
n. High	school dropout in		formal employment	
child	this population, and		opportunities and high	
marriage,	that poor parents will		incidence of child marriage	
teen	invest at least some		and teen pregnancy (C) are	
pregnancy	of the additional		provided conditional cash	
	funds from a positive		transfers based on their	
	income shock		school attendance early on	
	towards the		(M-Res), then their school	
	education of their		dropout decreases, SRH	
	daughters. Women's		knowledge increases.	
	agency, intra-		Subsequently, incidence of	
	household bargaining		child marriage and	
	power, and		adolescent pregnancy also	
	empowerment.		decreases (O) because	
			parents may invest at least	
			some of the additional	
			funds towards the	
			education of their	
			daughters; they will keep	
			the girls in school for	
			longer beacuse of	
			additional financial	
			resources that can be used	
			for daily needs thus	
			reducing the financial	
			burden on parents; school	
			retention will also lead to	
			the accumulation of	
			knowledge and skills for	

			employment, girls may utilize these skills and employment as negotiation to delay marriage (M-Rea).	

Burke2022	ES and HIV	Course on	Orphans	Course on	Combined	Intermediate	11. If vulnerable	no effect CSMOC,
		financial	and	budgeting and	programmes build	: sexually	adolescents at high risk of	IPT 1, 3
		planning in	vulnerable	saving, education	skills to improve	transmitted	HIV, living in disadvantaged	
		school or	children	on different savings	financial well-being,	infections,	communities (C) are	
		community	(OVC),	options, and	women's	self-reported	provided with economic	
		facility	people	earning money	empowerment and	economic	strengthening courses on	
			living with		gender equity, and	and sexual	budgeting, saving and	
			and		thus reduce	behaviours/k	earning money (M-Res)	
			affected		vulnerability to HIV.	nowledge	then their knowledge of	
			by		Our theory of change		economic opportunities	
			HIV/AIDS,		proposed that an		and financial knowledge	
			Pregnant		HIV-prevention		may not increase (O)	
			and/or		intervention that		because they do not have	
			HIV-		increases mental		an additional intervention	
			positive		resources by		component to apply this	
			adolescent		teaching adolescents		knowledge that will aid	
			s (both		about safe sex		retention of knowledge (M-	
			girls and		practices and builds		Rea). Also, as they live in	
			boys)		communication and		disadvantaged	
					negotiation skills		communities without	
					would lead to safer		channels linking them to	
					sex practices.		economic opportunities	
					Economic		(M-Rea) - they will not find	
					interventions can be		gainful employment. So,	
					used to reduce		the knowledge gained will	
					economic		not convert into human	
					vulnerability, by		capital (M-Rea) and,	
					increasing tangible		therefore, not lead to	
					resources - a key		changes in health	
					structural factor		outcomes.	

Course on breed	Course coursed		Main	12 (If) with a rable	
Course on broad	Course covered	contributing to risky	Main:	12. (If) vulnerable	no effect CSMOC,
range of risky	topics including	sexual behaviours	adolescent	adolescents at high risk of	IPT 8
sexual behavior	dealing with loss		pregnancy	HIV, living in disadvantaged	
in school or	and grief, decision-			communities (C) are	
community	making, drugs and			provided with HIV risk	
facility	alcohol, HIV and			reduction specific health	
	other STIs, healthy			education, including	
	relationships,			information on HIV/AIDS,	
	communication			healthy communication,	
	skills, safer sex and			safe sex, decision making	
	contraception			and substance abuse (M-	
				Res), then their risk of	
				adolescent pregnancy (O)	
				may not reduce because	
				the intervention only	
				focuses on the individual	
				and not their environment.	
				The adolescents in	
				disadvantaged	
				communities may not have	
				the power to use the skills	
				learned in the course if	
				negative community norms	
				prevail (M-Rea). They	
				might not have access to	
				resources to buy health	
				products because of a lack	
				of funds and opportunities	
				to gain employment (M-	
				Rea) - thereby limiting the	
				transformation of skills into	
				positive outcomes.	
				positive outcomes.	

Dupas2012	Sugar daddy	In school	High rate	Training of teachers	Teachers were better	Intermediate	13. If school-going girls	IPT 8, 2 (HIV
		session with	of HIV	on different types	equipped to answer	: knowledge	living in areas with high	education)
		trained male	prevalence	of HIV prevention	questions that might	about HIV,	school dropout, HIV, early	
		teachers and	among 15-	and Interaction	arise on HIV	HIV	sexual debut, and teen	
		trained female	24 women	between students	transmission. They	prevention	pregnancy prevalence (C)	
		external		and teachers in a	felt more	plans, self-	are provided HIV	
		consultants		classroom setting.	comfortable talking	reported	prevention abstinence	
					about the topic. They	sexual	education in the classroom	
					had higher	behaviour	by trained teachers (male)	
					awareness about the		(M-Res) then there may be	
					topic.		a reduction in unprotected	
					Interaction between		sex and subsequently in	
					students and		adolescent pregnancy (O)	
					teachers increased		because teachers are well	
					the understanding of		equipped to answer	
					HIV transmission.		questions and feel	
					Students feel		comfortable doing so with	
					comfortable with the		girls in a classroom setting	
					existing teachers and		(M-Rea). This will increase	
					trust them to provide		interaction between	
					correct information.		teachers and students,	
							leading to higher	
							knowledge on the topic	
							and improving trust and	
							communication between	
							them (M-Rea).	

Most teachers	Girls	Interaction	Students felt	Main:	14. If school-going girls	IPT 8, 2, Digital
(70%) were	become	between female	comfortable with	adolescent	living in areas with high	health
male	sexually	external consultant	extrnal consultant		school dropout, HIV, early	ווכמונוו
Indle	•		beacuse of teachers'	pregnancy	sexual debut, and teen	
	active at a	and students using				
	younger	videos. Interaction	status and gender in		pregnancy (C) prevalence	
	age, Teen	between students	relation to pupils,		are provided HIV	
	pregnancy	in the presence of	and discomfort in		prevention sexual health	
	was much	trainer in a	discussing sensitive		education using digital	
	more	classroom setting.	topics. Videos and		media and relative risk	
	frequent	Presentation and	presentation (digital		messaging in the classroom	
		video on relative	tools) help students		by trained female external	
		risk awareness of	visualize the		consultants (M-Res) then	
		having sex with	information provided		girls will have improved	
		older men.	and increase		risky sexual behaviour,	
			information		increase in contraceptive	
			retention.		use and subsequent	
					reduction in adolescent	
					pregnancy (O) because the	
					female consultant can	
					connect with girls better	
					(M-Rea) in comparison to	
					male teachers both in	
					terms of gender and power	
					differential in classroom.	
					Girls may feel more	
					comfortable discussing	
					sensitive topics (M-Rea)	
					with someone new as it	
					maintains privacy (M-Rea)	
					in their immediate	
					environment. The use of	
					digital media may also help	
					students visualise the	
	1		l			

			information provided and	
			increase information	
			retention (M-Rea). Relative	
			risk messaging promotes	
			critical thinking about	
			sexual decision-making and	
			gives girls the power to	
			choose (M-Rea) instead of	
			abstinence-focused	
			messaging, where they	
			have only one choice (M-	
			Rea).	
1				

Only girls	High	Hour long in class	Interaction between	15. If school-going girls	IPT 8, 2
	school	quiz on HIV	peers also increases	living in areas with high	
	dropout	knowledge, sexual	social comparison	school dropout, HIV, early	
		behaviour of peers,	and conformity - if	sexual debut, and teen	
		beliefs on risk of	most peers think that	pregnancy (C) prevalence	
		adol preg and HIV	getting pregnant	are provided sexual health	
		infection, own	before 18 is not	education in a group	
		behaviour.	suitable, that will	setting in the classroom by	
			influence others. On	trained teachers or	
			the other hand, if	consultants (M-Res), then	
			most peers think	girls will have improved	
			otherwise, that might	risky sexual behaviour,	
			lead to peer pressure	increase in contraceptive	
			to indulge in risky	use and subsequent	
			practices. But the	reduction in adolescent	
			presence of a trainer	pregnancy (O) because	
			can control the	interaction between peers	
			spread of	will increase social	
			misinformation.	comparison and conformity	
				(M-Rea). If most peers	
				think that getting pregnant	
				before 18 is not suitable,	
				that will influence others.	
				On the other hand, if most	
				peers think otherwise, that	
				might lead to peer pressure	
				(M-Rea) to indulge in risky	
				practices. However, the	
				presence of a trainer may	
				control the spread of	
				misinformation (M-Rea).	

		Quiz help evaluate	16. If school-going girls	IPT 8, 2
		own thoughts and	living in areas with high	
		beliefs on the topic.	school dropout, HIV, early	
		It helps plan for	sexual debut, and teen	
		suitable outcome and	pregnancy (C) prevalence	
		may lead to setting	are asked to take a	
		ideas on what not to	test/quiz on personal and	
		do. Being	peer sexual health	
		unanonymous - there	behaviours in a group	
		is no risk of stigma	setting in the classroom by	
		and students can be	trained teachers or	
		true to what they	consultants (M-Res) then	
		think.	girls will have improved	
			risky sexual behaviour,	
			increase in contraceptive	
			use and subsequent	
			reduction in adolescent	
			pregnancy (O) because the	
			quiz will help them	
			evaluate their own	
			thoughts and beliefs (M-	
			Rea) on the topic. It will	
			help them with goal setting	
			and planning for suitable	
			outcomes (M-Rea) and may	
			lead to setting behaviours	
			(M-Rea) on what not to do.	
			Quiz being anonymous -	
			there is no risk of stigma	
			and students can be true to	
			what they think (M-Rea).	

Hensen2022	Yathu Yathu	Community	Pove and	Community bacad	Community charges	Intermediate	17 If adalascents (house	No offect CSMOC
	Tainu Tainu	Community-	Boys and	Community-based,	Community spaces	Intermediate	17. If adolescents (boys	No effect CSMOC,
Hensen2021		based, peer-led	girls	peer-led spaces,	that are easy to	: knowledge	and girls) in periurban	IPT 6
		spaces, called		that provide	access and youth-	of HIV status,	communities with high	
		Yathu Yathu		comprehensive SRH	friendly may increase	uptake of	prevalence of HIV (C) are	
		hubs, that		services including	adolescents' trust in	HIV testing,	provided access to trained	
		provide		HIV testing,	the health system.	uptake of	health professional run,	
		comprehensive		counselling,	They may also	HIV	youth-friendly hubs with	
		SRH services		referrals,	provide a safe space	treatment	SRH services and products,	
				contraceptives,	to talk about sexual	and	digital CSE and referral to	
				comprehensive	health with peers,	prevention	health facilities (M-Res) but	
				sexuality education	counsellors and	services,	amidst a public health	
				and edutainment	friends - which may	alcohol use,	emergency (COVID) (C)	
				sessions (MTV	motivate them to	history of	then their SRH knowledge,	
				Shuga and Love	visit the hub more	contraceptiv	uptake of services,	
				Games), linked to	regularly. The	e use,	contraceptives and	
				health facility via	socialisation aspect	condom use,	subsequent adolescent	
				referals	may reduce stigma	and	pregnancy may not reduce	
					around the topic and	expectations	(O) because even though	
					increase uptake of	for the	they have a safe space to	
					services.	future	discuss sensitive topics	
							with professionals and	
							peers, have positive	
							reinforcement from the	

Loyalty card t	o Periurban	"loyalty cards" that	Loyalty cards may	Main:	loyalty card to change
accrue points		allow AYP to accrue	activate positive	adolescent	behaviour and have
for accessing		points for accessing	reinforcement by	pregnancy	independence from
SRH services	access to	SRH services and	getting a reward for a		guardians in buying health
and spend	health	spend points on	behaviour change		products these spaces
points on	facilities	rewards including	(use of SRH services).		might be closed for
rewards		toothpaste,	This may make the		extended periods and
		toothbrush, and	participants more		might be out of stock of
		soap, but also nail	likely to repeat the		various health products
		polish, vouchers for	behaviour to receive		which may have led to loss
		barber/hairdresser,	the favourable		of confidence and trust in
		and reusable	rewards again. The		the services provided (M-
		menstrual pads.	rewards' economic		Rea).
			aspect might also		
			appeal to		
			participants with		
			limited resources.		
			This reduces their		
			dependence on		
			parents and partners		
			to buy the products		
			they need. This also		
			gives them a sense of		
			self-sufficiency to		
			take control of their		
			health decisions.		

	Community	Prevalence	Community	The community	18. If periurban	Community
	engagement	of HIV	engagement	engagement activity	communities with a high	engagement
	activities to		activities to inform	might target	prevalence of HIV (C) are	(new)
	provide info on		AYP and the	changing the social	provided community	No effect CSMOC,
	avaiable health		broader community	norms and stigma	engagement activities by	IPT 6
	services -		of the services	around SRH.	trained community	
	community		available through	Discussing these	mobilizers on SRH topics	
	mobilizers		Yathu Yathu.	topics and providing	and services available for	
				products related to	adolescents (M-Res) then	
				this might induce	social norms and stigma	
				proactive thinking	around these topics will	
				about it. This may	reduce leading to increased	
				reduce the social	communication and	
				barriers to accessing	support between parents	
				services.	and adolescents - further	
					leading to positive sexual	
					behaviour change (O). But	
					in case of a public health	
					emergency, these activities	
					will be stopped, and <b>and</b>	
					norm shift will not take	
					place (M-Rea). Thus leading	
					to no impact on health.	

Youth friendly	Hubs closed for 3
health services -	months in response
peer support	to COVID-19 in mid-
workers (PSWs),	2020 and stock-outs
lay counsellors	of oral
and nurses	contraceptives at the
	hubs and health
	facilities between
	2020 and 2021, it is
	possible that some
	AGYW discontinued
	use of hormonal
	contraceptives,
	particularly the pill,
	and subsequently
	lost confidence that
	services would be
	offered consistently.
	Mobilisation
	activities were
	insufficient to shift
	these norms.

Austrian2019	AGEP	Weekly group	Urban and	Information on	Health assets:	Intermediate	19. If the most vulnerable	No effect CSMOC
		meeting with	rural site -	SRH, HIV, nutrition;	knowledge (SRH, HIV,	: educational	girls from lower-income	IPT 6, 5, 2, 4, 7
		trained young	close	interaction with	nutrition),	attainment,	backgrounds in both urban	
		female mentor	proximity	mentors, access to	aspirational (staying	sexual debut,	and rural areas (C) are	
			to health	health services with	STI free), efficacy	STIs, ability	provided comprehensive	
			centers	health voucher	(confidence with	to support	sexual and reproductive	
			and bank		providers), access	themselves	health education in a safe	
					(health voucher)	and their	space in the community	
						families	and free access to health	
						financially,	services at youth-friendly	
						and control	facilities (M-Res), even	
						over health	then they might not have	
						and financial	positive changes in sexual	
						decision-	behaviour, GBV and	
						making.	adolescent pregnancy (O)	
							because the most	
							vulnerable girls might not	
							be able to attend the	
							sessions on SRH at the club	
							due to travel restrictions	
							from family, resource	
							constraints to reach the	
							place, responsibilities at	
							home, job, sessions being	
							not culturally appropriate,	
							or they do not like the	
							group setting due to	
							privacy issues (M-Rea) thus	
							leading them to not access	
							the health service either.	

Hewett2014	Safe spaces	High	Skills in	Social assets:	Main:	20. If the most vulnerable	No effect CSMOC
		prevalence	communication,	knowledge	adolescent	girls from lower-income	IPT 6, 5, 2, 4, 7
		of	leadership;	(communication,	pregnancy	backgrounds in both urban	
		adolescent	discussion on	leadership),		and rural areas (C) are	
		pregnancy,	gender roles, rights,	aspirational (gender		provided life skill training	
		child	and relationships;	roles, rights), efficacy		by trained female mentors	
		marriage,	weekly meetings	(relationships, safety		from the community in a	
		school	with peers	net), access (weekly		safe space at the	
		dropout,		meetings)		community even then they	
		sexual and				might not have positive	
		physical				changes in sexual	
		violence				behaviour, GBV and	
		was high,				adolescent pregnancy (O)	
		SRH				because the most	
		knowledge				vulnerable girls might not	
		low				be able to attend the	
						sessions at the club due to	
						travel restrictions from	
						family, resource	
						constraints to reach the	
						place, responsibilities at	
						home, job, sessions are not	
						appropriate for their	
						needs, or they do not like	
						the group setting due to	
						privacy issues (M-Rea) thus	
						limiting the translation of	
						session into knowledge,	
						aspiration and self efficacy.	

Hewett2017	Health voucher	lower-	Course on earning		21. If the most vulnerable	IPT 3, 1
		income	and saving money,		girls from lower-income	No effect CSMOC
		backgroun	goal setting and	Economic assets:	backgrounds in both urban	
		ds and live	reaching goals,	knowledge (earning	and rural areas (C) are	
		with	confidence in	and saving money),	provided financial	
		multiple	money	aspirational (reaching	education by trained young	
		levels of	management,	goals), efficacy	mentors from the	
		vulnerabili	access to bank	(confidence in money	community in a group	
		ty, e.g.,	account and	management), access	setting and access to a	
		physical	knowledge on how	(bank account)	savings bank account, even	
		and social	to use the bank		then they might not have	
		isolation,	services.		positive changes in	
		living			knowledge on financial	
		without			decision making, sexual	
		parents,			behaviour, GBV and	
		living in			adolescent pregnancy (O)	
		low-			because they might not	
		income			participate in the program	
		household			or attend the session due	
		s, and not			to pre-existing barriers (see	
		attending			above) (M-Rea) even	
		school.			though these sessions and	

Austrian2018	Savings account	Saving account	While the girl's	account are targeted to
			groups provided	increase their economic
			capacity building in	asset.
			money management,	
			budgeting and	
			savings, the provision	
			of a bank account	
			was designed to	
			provide a mechanism	
			for knowledge and	
			skills to be	
			operationalized in	
			practice. it was	
			hypothesized to	
			reinforce girls'	
			money management	
			skills, promote	
			economic asset	
			building, grow a	
			culture of savings,	
			facilitate economic	
			independence and	
			provide assets in	
			cases of emergencies	
			or other basic needs.	

No effect on
pregnancy: a) a large
proportion of the
(vulnerable) girls
invited to the
programme did not
participate - maybe
because they had
other barriers to
overcome
b) among those who
did participate, only a
sub-segment of them
participated actively
in the safe-spaces
sessions maybe
they still do not feel
comfortable sharing -
linked to group
environment?
different opinion?

Makino2021	Safe spaces	High	Trained young	Interacting with	Intermediate	22. If uneducated girls with	IPT 5, 2, 4, 7 (life
		prevalence	mentors from the	trained young	: sexual	similar demographic	skill education +
		of	community.	mentors (who will act	violence and	characteristics like age and	safe space +
		adolescent	Interaction	as role models for	premarital	marital status in	mentor)
		pregnancy,	between mentor	girls) in the	sex	communities with high	
		child	and girls in safe	community will be an		sexual violence and high	
		marriage,	space - group	example for girls of		premarital sex prevalence	
		school	setting.	what opportunities		(C) are provided trained	
		dropout,	Age and marital	they might get apart		mentor-led life skill training	
		sexual and	status segregated	from the gender-		in a safe space with peers	
		physical	groups.	specific roles		(M-Res) then early	
		violence	Safe space to	ascribed to them by		pregnancy is delayed or	
		was high,	discuss essential	the society. This can		prevented (O) because	
		SRH	experiences of the	also act as a		discussing SRH topics with	
		knowledge	past week and	motivation to set and		peers and mentor may	
		low	Information on	achieve ambitious		increase knowledge and	
			health, life skills,	goals. Age and		reduce the stigma	
			and financial	marital status-		associated with these	
			education topics	segregated safe		topics and bring a sense of	
				spaces will reduce		emotional support and	
				the stigma associated		shared experiences that	
				with sensitive topics		further reduces isolation	
				as girls will be with		(M-Res). This may motivate	
				peers in a similar		them to set positive health	
				setting and phase of		and life goals for	
				life. They will bring a		themselves and increase	
				sense of emotional		their decision-making	
				support and shared		power over their own	
				experiences and		sexual behaviour (M-Rea).	
				reduce social			
				isolation.			

Health voucher	lower- income backgroun ds and live with multiple levels of vulnerabili ty, e.g., physical and social isolation, living without	Health voucher covering essential health exams, age appro srh services	Information on health life-skills and financial education topics will build girl's knowledge - build assets or human capital for them to make informed decisions and set realistic goals	Main: Adolescent pregnancy	23. If uneducated girls in communities with high sexual violence and high premarital sex prevalence (C) are provided health vouchers giving access to free health services at a youth-friendly facility (M- Res) then early pregnancy is delayed or prevented (O) because this may encourage them to access health services without financial dependence on	IPT 6, health products
Services account	parents, living in low- income household s, and not attending school.	Covince convet			parents, or partners, which in turn increases their decision-making power over their own sexual behaviour (M-Rea).	
Savings account	Urban and rural site - close proximity to health centers and bank	Savings account	Health vouchers will give girls access to healthcare that they can access without financial dependence on parents or partners - this will give them the power to make decisions and take control of health needs			

Mbizvo2023	CSE-Health Facility linkages	Weekly group meeting with trained young female mentor	In school sessions after consulatio n with parents	In class CSE education and adolescent SRH services in facility catchment areas	Savings account may give girls a place to save money and set financial goals. She can apply the learnings from the training and retain that knowledge by practising the techniques taught - this might lead to an increase in confidence. CSE increases knowledge about healthy behaviours	Intermediate : age at sexual debut, unprotected sex, health seeking behaviour	
						behaviour for SRH services, demand for SRH services, SGBV	

Youth friendly	Districts	Health outreach in	Health fairs give	Main:	24. If adolescents (boys	IPT 6, health
facility	with high	school via health	access to information	adolescent	and girls) in school living in	products
	adolescent	fairs, training of	on school grounds in	pregnancy	high pregnancy prevalence	F
	pregnancy	teachers and health	the presence of other	1 - 0 7	areas (C) are provided	
	rates.	workers in youth-	peers who might also		comprehensive sexual	
		friendly	visit the stalls with		health education in class	
		, approaches,	information together		along with health fairs on	
		anonymous	- creating a peer		school grounds and	
		referral, health	environment, and		anonymous referral slips to	
		services provision	anonymous referral		a youth-friendly facility by	
		like HIV counseling	create autonomy and		trained health providers	
		and testing,	security for the		where they can get free	
		information on	participants to access		testing, counselling and	
		pregnancy	services without the		health monitoring (M-Res)	
		prevention and	threat of exposing		then there is a reduction in	
		pregnancy testing,	their identity - this		unwanted adolescent	
		contraceptive	increases confidence		pregnancy (O) because CSE	
		counseling, HIV	in getting the care		and health fairs give access	
		prevention	required		to information on school	
		education,			grounds in the presence of	
		menstrual health			other peers who might also	
		and personal			visit the sessions and stalls	
		hygiene promotion,			together - creating a	
		and hypertension			supportive peer	
		and obesity			environment, and	
		monitoring.			anonymous referral creates	
					autonomy and security for	
					the participants who want	
					to access services without	
					the threat of exposing their	
					identity - this increases	
					confidence in getting the	
					care required translating	

			into uptake of services (M- Rea).	

Linkagos	Health outreach	Health outreach	2E If adalassants (have	IDT 6 health
Linkages			25. If adolescents (boys	IPT 6, health
between school	outside of school	outside of school at	and girls) in school living in	products
and health	via referral	youth friendly facility	high pregnancy prevalence	
facility	services, training of	with trained health	areas (C) are provided	
	teachers and health	providers may reduce	comprehensive sexual	
	workers in youth-	stigma around the	health education in class	
	friendly	topic of risky	along with access to health	
	approaches,	behaviour -	services outside of class at	
	provision of	increasing trust.	a youth-friendly facility	
	services like HIV/STI	Provision of free	where they can get free	
	prevention,	health services may	testing, counselling and	
	puberty, personal	increase demand and	health monitoring (M-Res),	
	hygiene, menstrual	aid risk reduction.	then there is a reduction in	
	health, and	Independent visit to	unwanted adolescent	
	adolescent	the facility may	pregnancy (O) because CSE	
	pregnancy	create autonomy and	and access to free care may	
	prevention	security for the	reduce stigma around the	
		participants to access	topic of risky behaviour -	
		services without the	thus increasing trust in the	
		threat of exposing	system - that increasing	
		their identity.	uptake of available	
			services. The provision of	
			free health services may	
			increase demand and aid	
			risk reduction.	
			Independent visits to the	
			facility may create	
			autonomy and security for	
			the participants to access	
			services without the threat	
			of exposing their identity.	
			(M-Rea).	

Health service	s Community	Community	26. If communities in high	IPT 6, health
	engagement on	engagement reduces	pregnancy districts (C) are	products
	health services	negative gender and	provided with information	
	available	social norms which in	and community	
		turn, creates a	engagement activities on	
		judgement-free	health services available	
		atmosphere to access	for adolescents at youth-	
		care - increase in	friendly facilities (M-Res),	
		confidence, trust and	then stigma and negative	
		sense of belonging -	social norms around SRH	
		uptake of services -	will be reduced	
		risk reduction -	subsequently leading to	
		reduction in	uptake of services - risk	
		pregnancy	reduction - and reduction	
			adolescent pregnancy (O)	
			because this will create a	
			judgement-free	
			atmosphere to access care	
			for adolescents - increase	
			in confidence, trust and	
			sense of belonging for	
			them in the community,	
			and improve	
			communication between	
			parents and children (M-	
			Rea).	

Oberth2021	Sista2Sista	Life skills with	Girls are at	Girls-only club,	Clubs create a safe	HIV testing,	27. If vulnerable girls with	IPT 5, 2, 4, 7 (life
0001112021	JISLAZJISLA	interactive	high risk in	mentoring, a	space for girls to talk	marriage,	low education, self-	skill education +
		activities with	U U	course on	• •		-	
			five key		about sensitive topics		awareness, sexual	safe space +
		trained mentors	areas: self-	communication,	- increase trust,	attendance,	knowledge and financial	mentor)
			awareness	gender and power,	belonging, reduction	reporting	resources (C) are provided	
			,	family planning,	in isolation;	sexual abuse,	life skills training on a	
			education,	sexually	interaction between	family	variety of health, finance	
			social	transmitted	girls and mentors	planning	and empowerment topics	
			relationshi	infections, HIV,	also create healthy		at a safe space in the	
			ps, sexual	stigma and	relationships for girls,		community by a trained	
			knowledge	discrimination,	mentor may act as a		mentor (M-Res) then for	
			and	menstrual health,	role model -		girls who attend all the	
			financial	cancer awareness,	increasing in		sessions adolecent	
			awareness	consent, SGBV,	aspirations,		pregnancy reduces (O)	
				finance	motivation, and		because clubs create a safe	
				management,	emotinal support;		space for girls to talk about	
				health topics,	courses in club		sensitive topics - which	
				individual sessions,	increase knowledge		increases trust, belonging,	
				trauma counselling,	and skills - increase		reduction in isolation;	
				the interaction	confidence and self-		interaction between girls	
				between mentor	efficacy - increase in		and mentors also create	
				and girls, and	decision making		healthy relationships for	
				between girls.	power and judgment		girls, mentor may act as a	
				_	for healthy choices		role model - increasing in	
		Safe spaces				Adolescent	aspirations, motivation,	
						pregnancy	and emotional support;	
							courses in club increase	
							knowledge and skills -	
							increase confidence and	
							self-efficacy - increase in	
							decision making power and	
							judgment for healthy	
							choices (M-Rea).	
							choices (IVI-ried).	

Wang2005CSEComprehensive sexual health education with digital components: educationalIn schoolThe intervention used six types of activities to provide sexual health-related topics, with newCSE increases knowledge about sexual health-related topics, with newfirst and most recent boys and girls both in boys and girls both in out of school living in components: educationalWang2005CSEComprehensive sexual health education with digital components: educationalIn schoolThe intervention used six types of activities to provide sexual health-related sexual health-related knowledge comes a sense of judgement to make healthyfirst and most recent boys and girls both in boys and girls both in out of school living in contraceptiv	nigh
education with digitalschoolactivities to provide information and services regarding abstinence,sexual health-related topics, with newintercourse, contraceptiv contraceptivout of school living in suburban areas with cohabitation, early se debut and adolescent	nigh
digitalBoys and components: distribution ofBoys and girlsinformation and services regarding abstinence,topics, with new knowledge comes a sense of judgementcontraceptiv contraceptivsuburban areas with contabilitation, early se debut and adolescent	0
components: distribution ofgirlsservices regarding abstinence,knowledge comes a sense of judgemente use, experiencecohabitation, early se debut and adolescent	0
distribution of abstinence, sense of judgement experience debut and adolescent	(ual
educational sexuality to make healthy of sexual pregnancy (C) are pro	
educational sexuality, to make healthy of sexual pregnancy (c) are pre	vided
reading contraception and choices, coercion, with comprehensive	exual
materials, HIV/AIDS Digital media use, and induced health education with	
screening of prevention: lectures and group abortion digital media, educat	onal
educational distribution of discussions helps resources, lectures and	d
videos, lectures, educational reading with knowledge peer discussions (M-F	es)
peer group materials, retention, inculcates then their coercing a	
discussions screening of a group learning partner into having set	x
educational videos, environemnt and decreases and use of	
lectures, peer sense of belonging contraceptives increa	ses
group discussions, with peers but no change in	
and provision of adolescent pregnance	(O)
reproductive health because CSE increase	;
services and knowledge about sex	lal
counselling. Nine health-related topics,	and
brochures, with new knowledge	
pamphlets, and comes a sense of	
four books were judgement to make h	ealthy
distributed to each choices. Digital media	use,
participant in the lectures and group	
intervention group discussions help with	
during the 20- knowledge retention	and
month study inculcate a group lea	ning
period. environment and a se	nse
of belonging with pee	rs
(M-Resa).	

Provision of	high	Door group	Add	progranov	29. If adolescent and young	No effect CSMOC,
	high	Peer group	Auu	pregnancy	, .	
reproductive	proportion	discussions			boys and girls both in and	IPT 6
health service					out of school living in	
and counselli	<b>U</b> .				suburban areas with high	
Access to	s be				cohabitation, early sexual	
contraceptive					debut and adolescent	
	active,				pregnancy (C) are provided	
	higher				reproductive health	
	rates of				services and products (M-	
	premarital				Res) then use of	
	pregnancy				contraceptives increases	
	and				but no effect on adolescent	
	induced				pregnancy (O) because	
	abortion,				access to health services	
	high				and counselling reinforces	
	cohabitati				learning by application of	
	on				skills learnt in the course,	
	-				availability of free	
					contraceptives and tests	
					empowers participants to	
					make decisions and use	
					services accordingly (M-	
					Rea).	
Credentialed	Suburban	Provision of	Access to health			
female	area with		services and			
		reproductive health				
counselor	well-	services and	counselling			
	establishe	counselling.	reinforces learning by			
	d family		application of skills			
	planning		learnt in the course,			
	commissio		availability of free			
	n		contraceptives and			
			tests empowers			
			participants to make			

		decisions and use services accordingly.		

Aventin2021	If I were	With boys - in	In school -	Slides, classroom	Beliefs about	delayed	30. If young boys both in	Digital health
	Thabo	and out of	for	activities, and	consequences:	initiation of	school and out of school	education (new)
		school	students	homework	positive planning,	sexual	living in high HIV and	
				exercises that	anticipated regret,	intercourse	adolescent pregnancy	
				involve	risk perception	and/or	areas (C) are involved in a	
				adolescents'	Attitudes and beliefs:	consistent	group-based, context-	
				parents. Homework	contraceptive use,	use of	specific interactive drama	
				activity an	barriers to use,	contraceptio	showcasing a young	
				individual activity	harmful norms	n, STI/STD	couple's journey with	
				that helps young	Knowledge: avoiding	transmission	adolescent pregnancy (M-	
				people to safely	HIV, condom use		Res) then it may change	
				identify an older	myths, local SRH		their ideas about gender	
				trusted adult that	support, sexual		roles and responsibilities,	
				they could speak to	readiness,		may lead to change in	
				about SRH.	transactionl sex		beliefs about using	
				Parent/caregiver	Skills: obtain and use		contraceptives, may lead to	
				activities are	condoms,		delayed initiation of sexual	
				address local	communication and		intercourse and	
				concerns,	negotiation with		subsequently incidence of	
				particularly	partners, peers,		adolescent pregnancy (O)	
				addressing cultural	parents,		because they may gain	
				taboo relating to	professionals		knowledge and skills on	
				adults speaking to	> Social influences		how to use contraceptives,	
				children about SRH	challenging gender		where to acquire it and	
				and increasing	norms, peer norms,		how to avoid pregnancy;	
				knowledge that	social norms		they will be able to	
				talking about SRH	Beliefs about		perceive risky situations	
				does not encourage	capabilities -		and plan accordingly to	
				sex.	perceived behavior		avoid pregnancy; and they	
				Parent/caregiver/e	control and self		will also know how to	
				ducator materials	efficacy		discuss these topics with	
				refer to SRH	> intentions to		their partners and peer to	
				education rather	avoid unprotected			

[	1						
			than relationships	sex, plan for positive		better negotiate for	
			and sexuality	sexual relationship		themselves (M-Rea).	
			education.	when ready			
	<u> </u>				l		

Skeen2022	Interactive film	In	Interactive context-	It is designed to	adolescent	31. If young boys both in	Peer and social
	and radio drama	communit	specific film in	promote critical	pregnancy	school and out of school	norm change
	version	y - for drop	group setting with	thinking and		living in high HIV and	
		outs	discussion	questioning about		adolescent pregnancy	
			component on	the social pressures		areas (C) are involved in a	
			'Controversial	that normally situate		group-based, context-	
			statements' looking	teenage pregnancy		specific activities that	
			at gender	and its prevention as		involves identifying gender	
			stereotypes,	a female-only issue.		bias, roles and	
			'People and things'			responsibilities and home	
			looking at roles of			based activities to identify	
			men and women			trusted adults to discuss	
			and how we treat			SRH topics (M-Res) then it	
			them.			may change their ideas	
						about gender roles and	
						responsibilities, may lead	
						to change in beliefs about	
						using contraceptives, may	
						lead to delayed initiation of	
						sexual intercourse and	
						subsequently incidence of	
						adolescent pregnancy (O)	
						because they may gain	
						knowledge on how to	
						maintatin healthy and	
						trusting relationships, they	
						may gain skills to negotiate	
						and communicate with	
						partners about SRH topics,	
						they may find advice from	
						trusted adults, and they	
						may question social	
						pressure around	

			adolescent pregnancy which may give them the confidence to apply this in their lives to prevent unwanted pregnancy (M- Rea).	

		A		
	Vulnerable	Activities catering to:	32. If parents, caregivers	IPT 6, community
	adolescent	Knowledge: know	and teachers (C) are	engagement
	s - high	how to evaluate	provided SRH education	
	HIV and	relationships; know	material addressing	
	adol	where to seek help	cultural taboos in talking to	
	pregnancy;	for unhealthy or	adolescents about these	
	Gender	abusive relationships.	topics and a radio program	
	inequitabl	Know what is	of the interactive drama	
	e setting	consensual and non-	(M-Res), then it may	
		consensual sex; know	change their views and	
		about the possible	beliefs about contraceptive	
		negative	use, healthy relationships	
		consequences of	and how to communicate	
		transactional sex.	with their children -	
		Skills: communicate	creating progressive	
		expectations with	gender and social norms	
		sexual partners;	(IO) because they will have	
		avoiding or leaving	the knowledge on these	
		unhealthy	topcis, and may discuss it	
		relationships	with other caregivers and	
		Beliefs about	peers after listening to the	
		consequences:	radio show. They also apply	
		believing that	these comunication	
		unhealthy	techniques with their	
		relationships will	children to improve their	
		impact negatively on	relationship (M-Rea).	
		current life and	· · · · · · · · · · · · · · · · · · ·	
		future goals Believing		
		that gender-equal		
		relationship can be		
		happy and fulfilling.		
		Self-efficacy:		
		Confidence in ability		
		Connuence in ability		

to communicate personal expectations, preferences and limits Normative beliefs: Believing that peers are not having sex until they feel ready:peers always use condoms when they have sex, peerse should not pressure others to not use condoms; condom should to relationships. Believing that women have the right to refuse sex; have the right to request the use of request the use of req	r			
expectations, preferences and limits Normative beliefs: Believing that peers are not having sex until they feel ready,peers always use condoms when they have sex, peers should not pressure others to not use condoms, should not pressure each other not to use condoms; condom use is not a sign of a distrust in relationships. Gender role norms: Believing that women have the right to make decisions about sex; women have the right to refuse sex; have the right to request the use of			to communicate	
Image: second				
Imits       Normative beliefs:         Believing that peers         are not having sex         until they feel         ready.peers always         use condoms when         they have sex, peers         should not pressure         others to not use         condoms; should not         pressure each other         not to use condoms;         condom use is not a         sign of a distrust in         relationships.         Gender role norms:         Believing that         women have the         right to make         decisions about sex;         women have the         right to refuse sex;         have the right to         right to make         decisions about sex;         women have the         right to make         decisions about sex;         women have the         right to refuse sex;         have the right to         reget the use of			expectations,	
Normative beliefs: Believing that peers are not having sex until they feel ready;peers always use condoms when they have sex, peers should not pressure others to not use condoms, should not pressure each other not to use condoms; condom use is not a sign of a distrust in relationships. Gender role norms: Believing that women have the right to make decisions about sex; women have the right to refuse sex; have the right to				
Believing that peers         are not having sex         until they feel         ready:peers always         use condoms when         they have sex, peers         should not pressure         others to not use         condoms; should not         pressure each other         not to use condoms;         condom use is not a         sign of a distrust in         relationships.         Gender role norms:         Believing that         women have the         right to make         decisions about sex;         women have the         right to refuse sex;         have the right to         request the use of			limits	
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Image: Second construction of the second consecond consecond construction of the second constructi			should not pressure	
Image: sector of the sector			others to not use	
not to use condoms; condom use is not a sign of a distrust in relationships. Gender role norms: Believing that women have the right to make decisions about sex; women have the right to refuse sex; have the right to request the use of			condoms, should not	
condom use is not a sign of a distrust in relationships. Gender role norms: Believing that women have the right to make decisions about sex; women have the right to refuse sex; have the right to request the use of			pressure each other	
sign of a distrust in relationships. Gender role norms: Believing that women have the right to make decisions about sex; women have the right to refuse sex; have the right to request the use of			not to use condoms;	
relationships. Gender role norms: Believing that women have the right to make decisions about sex; women have the right to refuse sex; have the right to request the use of			condom use is not a	
Gender role norms: Believing that women have the right to make decisions about sex; women have the right to refuse sex; have the right to request the use of			sign of a distrust in	
Believing that       women have the         women have the       right to make         decisions about sex;       decisions about sex;         women have the       right to refuse sex;         have the right to       request the use of			relationships.	
women have the right to make decisions about sex; women have the right to refuse sex; have the right to request the use of			Gender role norms:	
right to make decisions about sex; women have the right to refuse sex; have the right to request the use of			Believing that	
decisions about sex; women have the right to refuse sex; have the right to request the use of			women have the	
women have the right to refuse sex; have the right to request the use of			right to make	
right to refuse sex; have the right to request the use of			decisions about sex;	
have the right to request the use of			women have the	
have the right to request the use of			right to refuse sex;	
request the use of				
condoms and to				
			condoms and to	
refuse sex if condoms			refuse sex if condoms	
are not available;			are not available;	
women in			women in	

	transactional relationships have the right to refuse sex without condoms; using condoms does not emasculate men.	

Hemono2022	CyberRwanda	In facilitated	High	Comprehensive	The theory of	contraceptiv	33. If adolescents living in	Digital health
1101102022	cybernwanda	model, the	fertility	sexuality education	planned behaviour	e uptake,	areas with high fertility	Digital ficaltin
		same	rate,	through age-	(TPB) was used to	and	rates and stigma around	
		implementation	unmet	appropriate	inform the	increasing	family planning (C) are	
		materials are	need for	storytelling content	hypothesised impact	HIV testing.	provided a digital app with	
		provided as the	family	about FP/RH	pathway. It states	The costing.	age and literacy-	
		self-service	planning,	STORIES: Fun and	that intention is		appropriate stories in a	
		model with the	high	engaging narrative	central to behaviour		web-comic format on SRH	
		addition of peer	adolescent	content in a web-	change and that the		either at select	
		facilitators. The		comic format to	primary influencers		schools/youth centres or as	
		peer facilitators	pregnancy	engage all literacy	of intention are		self-service facilitated via	
		•		levels in	knowledge/beliefs		peer educators (M-Res)	
		guide youth						
		through		Kinyarwanda and	and perceived behavioural control,		then they may form more	
		structured		English.	both of which can		gender equitable beliefs,	
		sessions		Topics include			engage in safe sex	
		outlined in a		career planning,	shift subjective norms and thus		behaviour, and access health services more often	
		CyberRwanda		goal-setting,				
		activity booklet.		puberty,	influence intentions		leading to reduction in	
				contraception,	related to a		adolescent pregnancy (O)	
				gender-based	particular behaviour.		because they engage with	
				violence,	Actual control		the information provided	
				relationships, and	(juxtaposed with		to them, which increases	
				consent.	perceived		their knowledge on risk	
					behavioural control)		perception, and use of	
					can directly influence		contraceptives, which may	
					a behaviour by, for		influence their intention	
					example, improving		towards safe sex practices.	
					access by removing		The peer educators may	
					structural barriers.		act as mentors who may	
							motivate the adolescents	
							to engage in safe sex. The	
							private and secure aspect	
							of using their own app will	

		also reduce the stigma around learning about SRH topics (M-Rea).	

Direct-to-	Stigmatisat	Streamlined access	We hypothesise that	reducing	34. If adolescents living in	Digital health
	ion of	to contraception	CyberRwanda's	early	areas with high fertility	
consumer platform -	FP/RH and	and FP/ RH	tailored narrative	-	rates and stigma around	
•		•		pregnancy	C C	
Technology -	discriminat	products at nearby	and content can		family planning (C) are	
app use -	ion from	pharmacies	influence behaviour		provided a digital app	
networked	providers	through a mobile	change by increasing		where they can discreetly	
tablets through	are	ordering platform.	knowledge,		and privately order,	
two	frequently	SHOP: Youth can	perceived		purchase, and pick-up	
implementation	reported	discreetly and	behavioural control,		health products including	
models: self-	by young	privately order,	and access to FP/ RH		condoms, emergency	
service and	women	purchase, and pick-	products through		contraceptives, oral	
facilitated.	and girls as	up health products	online ordering and		contraceptive pills, and	
	reasons for	including condoms,	integration with		other medicines from a	
	not	emergency	youth-friendly		youth friendly pharmacy	
	seeking	contraceptives, oral	pharmacies.		(M-Res) then they may	
	services	contraceptive pills,			increase their acccess to	
		pads, ibuprofen,			health services and	
		and paracetamol at			products, they may	
		the CyberRwanda			increase the use of	
		pharmacy of their			contraceptives which may	
		choice.			lead to reduction in	
		Pricing is			adolescent pregnancy (O)	
		transparent on the			because adolescents will	
		platform and users			have access to safe and	
		can choose from			judgement free shops	
		local pharmacies in			providing them services,	
		the network.			they will have trust in the	
					shops and health workers	
					to give them correct	
					information and the	
					anonymous ordering	
					creates autonomy and	
					security for the participants	
		1	1	1	security for the participants	

		to access services without the threat of exposing their identity - this increases confidence in getting the care required (M-Rea).	

Self-service	App to LEARN: A	Students	35. If adolescents living in	Digital health
model, schools	robust library of	were	areas with high fertility	Digital fredition
and youth	questions with over	interested in	rates and stigma around	
centres receive	200 FAQs and a	receiving	family planning (C) are	
tablets,	directory to help	information	provided a digital app with	
hotspots,	youth locate both	about FP/RH	age and literacy-	
marketing	public and private	and reported	appropriate FAQ section	
materials, and	health facilities and	high usage of	and a directory to locate	
training on how	pharmacies in their	the STORIES	youth friendly services	
to set up tablets	communities.	and LEARN	either at select	
in select in-		features.	schools/youth centers or as	
school and		Nearly 40%	self sevice facilitated via	
youth centre		used Cyber-	peer educators (M-Res)	
locations for		Rwanda to	then they may engage in	
individual use.		learn about	safe sex behavior, and	
		contraceptiv	acccess health services	
		es. IDIs	more often leading to	
		revealed that	reduction in adolescent	
		ordering	pregnancy (O) because	
		contraceptiv	they engage with the	
		e products	information provided to	
		through the	them, which increases their	
		confidential	knowledge on risk	
		SHOP	perception, planning to	
		feature was	avoid risk, access and use	
		also of great	of contraceptives, which	
		interest to	may influence their	
		students;	intention towards safe sex	
		however,	practices. The private and	
		actual	secure aspect of using their	
		utilisation of	own app will also reduce	
		this feature	stigma around learning	
		was low.	about SRH topics (M-Rea).	

pharmacists and		
their staff are		
trained to		
support the		
provision of		
high-quality,		
youth-friendly		
care.		

Sandoy2016	RISE	teachers and	rural	Education: Contol	Funding: Cash	Socioecono	36. If school-going girls	IPT 1, 3
		CHAs/CHWs will	schools	arms- girls will be	transfers target the	mic	(grade 7-8-9) and their	
		be given a 5-day		offered writing	poverty dimension,	inequalities,	families living in rural areas	
		training		materials (exercise	by making it	marriage,	with common issues like	
		_		books, pencils and	somewhat less	school	school dropout, child	
				pens) as an	urgent for the	attendance/	marriage and adolescent	
				incentive to	guardians that the	enrollment,	pregnancy (C) are provided	
				participate.	girl gets married and	use of	with economic support,	
					for the girl to receive	contraceptiv	consisting of a monthly	
					gifts from a	es	cash transfer for the girl	
					boyfriend.		(ZMW 30), an annual cash	
					Increased schooling		grant to her	
					among adolescent		parents/guardians (ZMW	
					girls is likely to		350/year) and direct	
					empower them		payment of school fees to	
					economically [61]		school account (up to ZMW	
					and cognitively, and		500 per term) (M-Res) then	
					combined with		the household poverty	
					postponed		levels might decrease, girls	
					childbearing this can		may remain in school for	
					enable them to		longer, they may get	
					better protect the		married later and may	
					health of their		postpone childbearing (O)	
					children [17] and		because the families will	
					themselves and		have more financial	
					moreover increases		resources to keep the girls	
					the probability that		in school for longer, they	
					their future children		will have more resources to	
					will complete		cater to other daily needs	
					secondary school		and therefore will not have	
							to marry the girl to reduce	
							their financial burden, the	
							girls may have more	

Image: state in the state
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Image: state of the state
boyfriends. Girls may also be equipped with more knowledge and negotiation
be equipped with more knowledge and negotiation
knowledge and negotiation
skills to communicate with
parents and postpone their
marriage and subsequent
pregnancy/ with partners
to postpone childbearing.

	youth-friendly	medium	Economic support:	Incidence of
	health services	school	arms, girls and their	pregnancy
		dropout	parents/guardians	and birth
		rates, and	will be offered	(beofre
		adolescent	economic support,	16th/18th
		marriage	consisting of a	birthday) at
		and	monthly cash	different
		childbearin	transfer for the girl	points in
		g are	(ZMW 30), an	time
		common.	annual cash grant	
			to her	
			parents/guardians	
			(ZMW 350/year)	
			and payment of	
			school fees for girls	
			who enrol in grade	
			8 and 9 (up to ZMW	
			500 per term).	

Community dialogue:(1)Interaction with parents: Meetings37. If parents, healthIPT 6, communityworkers and the broader community and parent meetingswill be held to informcommunity members inengagementparent meetings employing a communityparents about the communityrural areas with commonengagementdialogue approach dialogue approach in promoting supportiveInteraction with orientation meetingsadolescent pregnancy (C)in promoting supportiveHCW: In addition, orientation meetings around educationaround education for girls, around education for girls, around educationpostponement of early marriage and early
community and parent meetings employing a content of the youth communitycommunity here parents about the content of the youth content of the youth community club sessions.community members in rural areas with common issues like school dropout, child marriage and adolescent pregnancy (C) in promoting supportive community norms around educationInteraction with HCW: In addition, orientation meetings will be held to inform around education for girls, postponement of early
parent meetings employing aparents about the content of the youth club sessions.rural areas with common issues like school dropout, child marriage and adolescent pregnancy (C) in promotinghere the the the the the the the the the th
imploying a employing a content of the youth communityissues like school dropout, child marriage and adolescent pregnancy (C) in promotingin promoting supportiveHCW: In addition, orientation meetingsare involved in a community dialogue around education for girls, around education
communityclub sessions.child marriage anddialogue approachInteraction withadolescent pregnancy (C)in promotingHCW: In addition,are involved in asupportiveorientation meetingscommunity dialoguecommunity normswill be held to informaround education for girls,around educationother healthcarepostponement of early
indialogue approach       Interaction with       adolescent pregnancy (C)         in promoting       HCW: In addition,       are involved in a         supportive       orientation meetings       community dialogue         community norms       will be held to inform       around education for girls,         around education       other healthcare       postponement of early
in promoting HCW: In addition, are involved in a community dialogue community norms around education for girls, around education other healthcare postponement of early
supportive       orientation meetings       community dialogue         community norms       will be held to inform       around education for girls,         around education       other healthcare       postponement of early
community norms around educationwill be held to inform other healthcarearound education for girls, postponement of early
around education other healthcare postponement of early
for girls and workers in the marriage and early
postponement of catchment area of childbearing, the
early marriage and the schools about the importance of providing
early childbearing project and the youth-friendly health
importance of services and the risks and
providing youth- benefits of early
friendly health childbearing (M-Res) then
services. they may form more
Interaction with supportive/progressive
community: These community norms around
meetings will be educating girls, keeping
conducted using a them in school, marrying
dialogue approach them later (O) because
and will discuss people in the community
topics such as the will have an increased
value of education, understanding of girls lived
and the risks and realities and the impact on
benefits of early their health and wellbeing
childbearing. because of early marriage
and child bearing - which
will increase support for
education, shift social and

			gender norms to support girls and their future aspirations (M-Rea).	

			space may help them form social networks and trust, it may decrease their social isolation, it may lead to positive peer influence, they may find others to relate to and to discuss their issues with. More broadly, adolescents may have a supportive environment in their peer group, families and communities where they can discuss sensitive topics and have the power to make the right choice (M-	

George2020		DREAMS was	high-HIV-	HIV Counselling and	reduce the HIV risk	Pregnancy	39. If vulnerable adolescent	No effect CSMOC
_		not uniformly	burden	Testing (HTS) and	of men who are likely	was	girls living in areas with	IPT 6
		rolled out	districts	linkages to care,	to be the sex	measured by	high HIV burden (C) are	
		across these		pre-exposure	partners of the	asking AGYW	provided linkage to youth	
		districts.		prophylaxis (PrEP),	AGYW.	if they have	friendly sexual	
				barcoded card to		ever been	reproductive health	
				access their HIV		pregnant	services, HIV counselling	
				test results,			and testing with barcoded	
				voluntary medical			card to access results, and	
				male circumcision			GBV prevention and post-	
George2022		US government	most at-	Linkage to sexual	empower AGYW to	HIV	violence care and support	
		funded	risk	reproductive health	control their sexual	infection,	services (M-Res) then girls	
		programme	population	(SRH) services,	health, understand	STIs, condom	may increase HIV testing,	
	Dreams	implementers,	s and	youth-friendly	girls' needs and not	use, age at	but may not use	
	Dicality	including	these	reproductive health	stigmatize them,	first sex,	contraceptives, reduce	
		community,	areas were	care	trust in health	pregnancy,	transactional sex and seek	
		faith-based,	targeted		system, staying STI	number of	medical care in case of	
		non-	for		free, efficacy	partners,	injuries (O) because the	
		governmental	implement		(confidence with	currently in	providers are not trained in	
		organisations,	ation of		providers), access to	school	how to discuss their needs	
		and the South	interventio		services		in an appropriate and	
		African	n				private manner, girls do	
		government.					not feel comfortable in	
		Community					accessing health services	
		engagement					because of restrivtive	
		and advocacy					nomrs around mobility and	
		with local					status of women and safety	
		stakeholders.					issues (M-Rea).	

George &	Trained female	eThekwini	GBV prevention as	better understanding	transactional	
Beckett2022	staff only 20 to	District is	well as post-	of gender-based	sex, access	
	25 years old	home to	violence care and	violence, tools and	to condoms	
	-	the busiest	support;	resources to protect		
		port, main		themselves and seek		
		economic		help when needed		
		hub within		(agency), strategies		
		the		to prevent GBV,		
		province		improve participants'		
		of KZN -		access to medical		
		mostly		services - lead to		
		rural		early detection of		
				violence		

Govender2022	Youth friendly	uMgungun	Comprehensive	To build and shape	HIV testing	40. If school-going	No effect
	health services	dlovu	sexuality	learners'	and	vulnerable adolescent girls	Material resource
		includes	education: Scripted	understanding of	antiretroviral	living in areas with high HIV	in school - social
		traditional	Lesson Plans (SLPs)	concepts, content,	therapy	burden (C) are provided	norms (new)
		settlement	to strengthen the	values, and attitudes	uptake	comprehensive sexuality	
		s or	teaching of CSE in	around sexuality and		education in school by	
		farmlands,	schools. SLPs are	sexual behaviour,		teachers (M-Res) even then	
		informal,	learner and teacher	convincing male		they may not reduce	
		rural and	support materials	sexual partners to		transactional sex and sex	
		urban	(LTSMs) designed	use condoms.		with older men, increase	
		settlement	to aid educators	Teachers equipped to		use of contraceptives, HIV	
		S.	and improve the	answer questions on		testing and may not delay	
			effectiveness of CSE	HIV infection. They		sexual debut (O) because	
			lessons. Condom	feel comfortable		the teachers may not be	
			promotion and	talking about the		trained, there may still be	
			provision, reduce	topic. They had		stigma and discomfort	
			risk of sex partners	higher awareness		discussing these topics in	
				about the topic.		class with an authority	
				Interaction between		figure (M-Rea).	
				students and			
				teachers increased.		41. If teachers in schools in	
				Students feel		rural and highly-populated	
				comfortable with the		areas with high HIV burden	
				existing teachers and		(C) are provided scripted	
				trust them to provide correct information.		lesson plans including	
				correct information.		support material to	
						strengthen their teaching	
						methodology on CSE (M- Res) even then student's	
						attendance, well-being and	
						learning outcomes may not	
						improve (O) because	
						teachers are not trained to	
						teachers are not trained to	

		use these materials, they may be over worked and do not have the time to engage with extra lessons on SRH topics which will not lead to positive social norm change in the school (M-Rea).	

Cawood2021	Social asset	field staff relate to	42. If families of vulnerable	NO effect IPT 1, 3
	building:	the participants	adolescent girls living in	(economic
	strengthen families	interviewed,	areas with high HIV burden	incentive and
	with social	mitigating factors	and poverty (C) are	financial training)
	protection	such as poverty,	provided educational	
	(educational	economically	subsidies (M-Res), even	
	subsidies and	strengthen the	then girls may not stay in	
	combined	families of AGYW and	school for longer, they may	
	socioeconomic	improve the ability of	not have better learning	
	approaches)	families to positively	outcomes, and may not see	
		and effectively	reduction in adolescent	
		support AGYW	pregnancy (O) because if	
			subsidy goes directly to	
			school the family would	
			not see overall increase in	
			funds and the families with	
			limited financial resources	
			may not want to invest in	
			the education of their	
			daughters (M-Rea).	
	Mobilize	mobilize	43. If communities and	No effect
	communities for	communities to	caregivers in high HIV	Community
	HIV and violence	change norms,	burden areas (C) are	engagement
	prevention,	create a supportive	provided awareness and	(new)
	parental or	environment where	information on HIV and	
	caregiver programs.	adolescents can talk	gender-based violence	
		to their parents	prevention (M-Res) even	
		without judgment	then the incidence of	
			violence, HIV infection may	
			not reduce (O) because	
			community members and	
			caregivers do not engage	
			with these awarness	

			activities. Theryby not leading to changes in restrictive social norms and not creacting supportive environment for adolescnt girls (M-Rea).	

	Programme theories and underpinning context-mechanism-outcome configurations (CMOC)				
Programme theories for interventions delivered at the school setting targeting adolescents					
Programme Theory 1 – Supportive environment at school If schools (C1) are provided educational resources (e.g. laptops, internet, projector) for after-school sessions (M-Res1), teachers receive training on interactive	e teaching using digital remedia				
curricula (M-Res2) to provide underperforming female students (C2) with grade and subject-specific tutoring tailored to address their specific needs, and local fem are assigned to schools to discuss gender and sexual reproductive health topics with female students (M-Res3)	ale mentors from the communit				
Then, student attendance, psychosocial well-being and learning outcomes are likely to improve (IO)					
Because using digital educational resources and needs-specific methods can enhance the learning environment by making learning more interactive and engage and learning styles (M-Rea1). Tailored tutoring by school teachers provides girls with individualised attention and assistance which increases their confidence and Discussing sensitive topics with mentors will help students voice their issues and engage with each other in a supportive environment (M-Rea3). Involving loc	nd motivation to learn (M-Rea2 al female mentors also fosters				
sense of community within the school environment, providing students with additional avenues for seeking help and aiding teachers with their workload (M-Rea As a result, female students feel supported and motivated to learn (M-Rea5), the school observes positive social norm change (M-Rea6), and girls might contin job opportunities, which might delay marriage and pregnancy (O).	-				
Supported by IPT: New PT					
CMOC	Evidence from interventions				
	(For/Against PT)				
	(FUI/Agailist FI)				
CMOC1 If schools in low-resource settings (C) are provided capacity building in the form of teacher training to better equip them to provide needs-based support in subjects like Maths and English, classroom equipment like laptops, internet and projector, and local mentor support to discuss gender-related inequality (M- Res) then the school will see overall gains in education and health outcomes (IO) because teachers will be more involved with students to discuss their problems in various subjects and mentors will be able to discuss topics of SRH which will reduce stigma on these topics. The students will be interested in learning and will regularly come to school to use the new equipment. This will create positive social norm changes in the school environment (M-Rea), which acts as a safe space for girls (M-Rea).	For (KGIS)				
in subjects like Maths and English, classroom equipment like laptops, internet and projector, and local mentor support to discuss gender-related inequality (M- Res) then the school will see overall gains in education and health outcomes (IO) because teachers will be more involved with students to discuss their problems in various subjects and mentors will be able to discuss topics of SRH which will reduce stigma on these topics. The students will be interested in learning and will regularly come to school to use the new equipment. This will create positive social norm changes in the school environment (M-Rea), which acts as a safe space					

If school-going and out-of-school adolescents (C1) living in areas affected by gender inequities (e.g. high school dropout of girls, high prevalence of HIV/AIDS, early sexual debut for girls, child or early marriage and teenage pregnancy) (C2) are provided comprehensive sexual health education (including HIV/AIDS prevention, gender stereotypes, relative risk messaging, risky sexual

behaviours and abstinence education, and in-class quiz or puzzle on these topics) using digital media (M-Res1) in a safe space (M-Res2) by trained facilitators (local female consultants or school teachers) (M-Res3)

Then, girls are likely to adopt less risky sexual behaviours such as using contraceptives, sex with fewer partners or similarly aged partners, postponing sex, and abstinence (IO)

Because discussion with trained facilitators and solving quizzes promote critical thinking and help process one's thoughts and beliefs (M-Rea1). Access to information delivered using visual aids increases knowledge retention and knowledge about modern contraceptives, and engagement with these materials helps with goal setting, decision making and planning for suitable outcomes (M-Rea2). Interaction with peers increases trust and develops negotiation skills and conformity to positive health behaviours (M-Rea3). Furthermore, trained facilitators can promote a gender-positive environment in the classroom because they have themselves critically reflected on SRH topics and are sensitised to discussing them (M-Rea4).

As a result, both school-going and out-of-school adolescents have more personal and relational control over their sexual health (M-Rea5). They feel supported and connected to their peers and teachers and make informed choices (M-Rea6), which might help prevent adolescent pregnancy (O).

## Supported by IPT: IPT 2, 3, 8

	Evidence from interventions
	(For/Against PT)
CMOC13 If school-going girls living in areas with high school dropout, HIV, early sexual debut, and teen pregnancy prevalence (C) are provided HIV prevention	For (Sugar Daddy)
abstinence education in the classroom by trained teachers (male) (M-Res), then there may be a reduction in unprotected sex and subsequently in adolescent	
pregnancy (O) because teachers are well equipped to answer questions and feel comfortable doing so with girls in a classroom setting (M-Rea). This will increase	
interaction between teachers and students, leading to higher knowledge on the topic and improving trust and communication between them (M-Rea).	
CMOC14 If school-going adolescents living in areas with high school dropout, HIV, early sexual debut, and teen pregnancy (C) prevalence are provided HIV	For (Sugar Daddy)
prevention sexual health education using digital media and relative risk messaging in the classroom by trained female external consultants (M-Res) then they will	
have improved risky sexual behaviour, increase in contraceptive use and subsequent reduction in adolescent pregnancy (O) because the female consultant can	
connect with girls better (M-Rea) in comparison to male teachers both in terms of gender and power differential in classroom. Adolescents may feel more	
comfortable discussing sensitive topics (M-Rea) with someone new as it maintains privacy (M-Rea) in their immediate environment. The use of digital media may	
also help students visualise the information provided and increase information retention (M-Rea). Relative risk messaging promotes critical thinking about sexual	
decision-making and gives girls the power to choose (M-Rea) instead of abstinence-focused messaging, where they have only one choice (M-Rea).	
CMOC15 If school-going adolescents living in areas with high school dropout, HIV, early sexual debut, and teen pregnancy (C) prevalence are provided sexual	For (Sugar Daddy)
health education in a group setting in the classroom by trained teachers or consultants (M-Res), then they will have improved risky sexual behaviour, increase in	
contraceptive use and subsequent reduction in adolescent pregnancy (O) because interaction between peers will increase social comparison and conformity (M-	
Rea). If most peers think that getting pregnant before 18 is not suitable, that will influence others. On the other hand, if most peers think otherwise, that might	
lead to peer pressure (M-Rea) to indulge in risky practices. However, the presence of a trainer may control the spread of misinformation (M-Rea).	
CMOC16 If school-going adolescents living in areas with high school dropout, HIV, early sexual debut, and teen pregnancy (C) prevalence are asked to take a	For (Sugar Daddy)
test/quiz on personal and peer sexual health behaviours in a group setting in the classroom by trained teachers or consultants (M-Res) then they will have	
improved risky sexual behaviour, increase in contraceptive use and subsequent reduction in adolescent pregnancy (O) because the quiz will help them evaluate	
their thoughts and beliefs (M-Rea) on the topic. It will help them with goal setting and planning for suitable outcomes (M-Rea) and may lead to setting behaviours	
(M-Rea) on what not to do. Quiz being anonymous provides a low risk of stigma, and students can be true to what they think (M-Rea).	
CMOC38 If both school-going and out-of-school adolescents living in rural areas with common issues like school dropout, child marriage and adolescent pregnancy	For (RISE)
(C) are involved in youth clubs that provide comprehensive sexual and reproductive health education including interactive discussions on education, early	
marriage, the risks of early pregnancy, gender roles, and sexual and reproductive health, including myths around modern contraceptives (M-Res) then they may	

recognise risky situations better, they may change their belief on contraceptive use and gender stereotypes, they may attend school for longer, plan and prevent engaging in unprotected sex and they may postpone marriage and childbearing (O) because interacting with their peers in a safe space may help them form social networks and trust, it may decrease their social isolation, it may lead to positive peer influence, they may find others to relate to and to discuss their issues with. More broadly, adolescents may have a supportive environment in their peer groups, families and communities where they can discuss sensitive topics and have the power to make the right choice (M-Rea).	
CMOC40 If school-going vulnerable adolescent girls living in areas with high HIV burden (C) are provided comprehensive sexuality education in school by teachers	Against (DREAMS)
(M-Res), even then they may not reduce transactional sex and sex with older men, increase use of contraceptives, HIV testing and may not delay sexual debut	
(O) because the teachers may not be trained, there may still be stigma and discomfort discussing these topics in class with an authority figure (M-Rea).	

Programme Theory 3 – Empowering boys through gender norms-based sexuality and relationship education

If school-going and out-of-school adolescent boys (C1) living in areas affected by gender inequities (e.g. high prevalence of HIV/AIDS, teenage pregnancy, and low access to sexual reproductive health services) (C2) are involved in group-based, context-specific activities like interactive comprehensive sexual health education (including television drama showcasing a young couple's journey with adolescent pregnancy, activities to identify gender roles and biases, and exercises to identify trusted adults to discuss SRH topics) (M-Res1)

Then, they are likely to challenge existing beliefs on gender roles and responsibilities, increase the use of contraceptives, delay the initiation of sexual intercourse, and subsequently lower the incidence of adolescent pregnancy (IO)

Because watching an interactive drama with peers would capture attention, evoke empathy, improve their understanding of social influences and norms around masculinity and make the information more relatable (M-Rea1). The gender-role activities would serve as behavioural modelling that would shape participants' perceptions and actions by applying knowledge on maintaining healthy and trusting relationships (M-Rea2). Discussions with peers foster dialogue, peer support, and reflection, potentially leading to shifts in attitudes, norms, and communication patterns within them (M-Rea3). Identifying and interacting with an adult of their choice would give them a sense of agency and spread positive gender norms (M-Rea4).

As a result, adolescent boys would be motivated to adopt positive subjective norms, understand its perceived benefits (M-Rea5) and have the confidence to change their sexual behaviour (M-Rea6), which might reduce adolescent pregnancy (O).

Supported by IPT: New PT

CMOC	Evidence from interventions (For/Against PT)
CMOC30 If young boys both in school and out of school living in high HIV and adolescent pregnancy areas (C) are involved in a group-based, context-specific interactive drama showcasing a young couple's journey with adolescent pregnancy (M-Res) then it may change their ideas about gender roles and responsibilities, may lead to a change in beliefs about using contraceptives, may lead to delayed initiation of sexual intercourse and subsequently incidence of adolescent pregnancy (O) because they may gain knowledge and skills on how to use contraceptives, where to acquire it and how to avoid pregnancy; they will be able to perceive risky situations and plan accordingly to avoid pregnancy; and they will also know how to discuss these topics with their partners and peer to better negotiate for themselves (M-Rea).	For (If I were Thabo)
CMOC31 If young boys both in school and out of school living in high HIV and adolescent pregnancy areas (C) are involved in group-based, context-specific activities that involves identifying gender bias, roles and responsibilities and home-based activities to identify trusted adults to discuss SRH topics (M-Res) then it may change their ideas about gender roles and responsibilities, may lead to change in beliefs about using contraceptives, may lead to delayed initiation of sexual intercourse and subsequently incidence of adolescent pregnancy (O) because they may gain knowledge on how to maintain healthy and trusting relationships, they may gain skills to negotiate and communicate with partners about SRH topics, they may find advice from trusted adults, and they may have the confidence to apply this in their lives to prevent unwanted pregnancy (M-Rea).	

## Programme theories for interventions delivered at the health facility setting for adolescents

Programme Theory 4 – Confidential youth-friendly health education and services

If school-going adolescent girls and boys (C1) living in areas with high adolescent pregnancy (C2) are provided comprehensive sexual health education (M-Res1) in a safe group setting (M-Res2) by trained health providers (M-Res3) along with health services (e.g. HIV counselling and testing, information on pregnancy prevention and pregnancy testing, contraceptive counselling, menstrual health and personal hygiene promotion, and hypertension and obesity monitoring) at school via anonymous referral slips or access to services at youth-friendly health facilities outside of school (e.g. HIV/STI prevention, puberty, personal hygiene, menstrual health, and adolescent pregnancy prevention) (M-Res4)

Then, it is likely that their knowledge of sexual health topics and services increases, and they get regular tests and counselling sessions (IO)

Because discussing SRH topics with trained health providers and peers increases knowledge, creates a supportive environment, improves interpersonal relationships with peers, and reduces stigma and hesitation around these topics in a mixed-gender classroom (M-Rea1). Anonymous referral creates autonomy and security for adolescents (M-Rea2), which increases their confidence in the uptake of services, increases demand (M-Rea3) and aids risk reduction (M-Rea4). Access to youth-friendly health facilities removes barriers to accessing care and promotes proactive health-seeking behaviours (M-Rea5).

As a result, adolescents feel supported and safe in accessing health services (M-Rea6) and are motivated to make informed decisions about their sexual health (M-Rea7), which might reduce adolescent pregnancy (O).

Supported by IPT: IPT 2, 3, 8

CMOC	Evidence from interventions (For/Against PT)
CMOC24 If adolescents (boys and girls) in school living in high pregnancy prevalence areas (C) are provided comprehensive sexual health education in class along	For (CSE-Health Facility
with health fairs on school grounds and anonymous referral slips to a youth-friendly facility by trained health providers where they can get free testing,	linkages)
counselling and health monitoring (M-Res) then there is a reduction in unwanted adolescent pregnancy (O) because CSE and health fairs give access to	
information on school grounds in the presence of other peers who might also visit the sessions and stalls together - creating a supportive peer environment, and	
anonymous referral creates autonomy and security for the participants who want to access services without the threat of exposing their identity - this increases	
confidence in getting the care required translating into uptake of services (M-Rea).	
CMOC25 If adolescents (boys and girls) in school living in high pregnancy prevalence areas (C) are provided comprehensive sexual health education in class along	For (CSE-Health Facility
with access to health services outside of class at a youth-friendly facility where they can get free testing, counselling and health monitoring (M-Res), then there	linkages)
is a reduction in unwanted adolescent pregnancy (O) because CSE and access to free care may reduce stigma around the topic of risky behaviour - thus increasing	
trust in the system - that increasing uptake of available services. The provision of free health services may increase demand and aid risk reduction. Independent	
visits to the facility may create autonomy and security for the participants to access services without the threat of exposing their identity. (M-Rea).	
CMOC12 If vulnerable adolescents at high risk of HIV, living in disadvantaged communities (C) are provided with HIV risk reduction specific health education,	Against (ES and HIV)
including information on HIV/AIDS, healthy communication, safe sex, decision making and substance abuse (M-Res), then their risk of adolescent pregnancy (O)	
may not reduce because the intervention only focuses on the individual and not their environment. The adolescents in disadvantaged communities may not have	
the power to use the skills learned in the course if negative community norms prevail (M-Rea). They might not have access to resources to buy health products	
because of a lack of funds and opportunities to gain employment (M-Rea) - thereby limiting the transformation of skills into positive outcomes.	
CMOC28 If adolescent and young boys and girls both in and out of school living in suburban areas with high cohabitation, early sexual debut and adolescent	Against (CSE)
pregnancy (C) are provided with comprehensive sexual health education with digital media, educational resources, lectures and peer discussions (M-Res) then	
their coercing a partner into having sex decreases and use of contraceptives increases but no change in adolescent pregnancy (O) because comprehensive sexual	
health education increases knowledge about sexual health-related topics, and with new knowledge comes a sense of judgement to make healthy choices. Digital	

media use, lectures and group discussions help with knowledge retention and inculcate a group learning environment and a sense of belonging with peers (M-Rea).

Programme Theory 5 – Fostering demand through digital health services and free health supplies

If adolescent girls and boys (C1) living in areas with high prevalence of adolescent pregnancy, premarital sex, HIV/AIDS and sexual violence (C2) are provided with free access to a digital health platform with information on SRH (M-Res1), free access to youth-friendly health facilities with health services (e.g. counselling, HIV and pregnancy self-tests, family planning, medicines, contraceptives), and pharmacies selling health products (e.g. condoms, emergency contraceptives, oral contraceptive pills, and other medicines) (M-Res2)

Then, they are likely to increase the use of contraceptives, decrease unprotected sex, and increase testing for STIs, which subsequently lead to a reduction in adolescent pregnancy (IO, O) Because adolescents can access health services and products without financial dependence on parents or partners (M-Rea1). Access to youth-friendly health providers gives non-judgmental care tailored to their unique needs, which will increase trust and support between the health providers and adolescents due to reduced shame and stigma (M-Rea2). They will have control over the type of information they access (M-Rea3), have privacy and anonymity in accessing services and information (M-Rea4), and have decision-making power to plan for suitable outcomes (M-Rea5). As a result, adolescents feel supported and safe in accessing health services (M-Rea6), are financially empowered to use them (M-Rea7), are motivated to act to improve their sexual and reproductive health and use contraceptives (M-Rea8) which might reduce adolescent pregnancy (O).

Supported by IPT: New

CMOC	Evidence from interventions (For/Against PT)
CMOC7 If adolescent girls living in high teenage pregnancy, STI and HIV prevalent areas (C) are provided access to a digital health platform/app with information on SRH, free access to youth health facilities, and pharmacies selling health products (M-Res) then adolescents will increase their use of contraceptives, decrease unprotected sex, test for pregnancy and STI (O) because they have control over what type of information they access decreasing misinformation and misconception, how they access it and keep it anonymous through the app. They also have the choice to visit the health facility or pharmacy to get health products without being dependent on elders for funds. This will increase their overall sexual health agency and choice (M-Rea).	For (In their Hands)
CMOC23 If uneducated girls in communities with high sexual violence and high premarital sex prevalence (C) are provided health vouchers giving access to free health services at a youth-friendly facility (M-Res) then early pregnancy is delayed or prevented (O) because this may encourage them to access health services without financial dependence on parents, or partners, which in turn increases their decision-making power over their own sexual behaviour (M-Rea).	For (AGEP)
CMOC29 If adolescent and young boys and girls both in and out of school living in suburban areas with high cohabitation, early sexual debut and adolescent pregnancy (C) are provided reproductive health services and products (M-Res) then the use of contraceptives increases but no effect on adolescent pregnancy (O) because access to health services and counselling reinforces learning by application of skills learnt in the course, availability of free contraceptives and tests empowers participants to make decisions and use services accordingly (M-Rea).	For (CSE)
CMOC34 If adolescents living in areas with high fertility rates and stigma around family planning (C) are provided with a digital app where they can discreetly and privately order, purchase, and pick-up health products including condoms, emergency contraceptives, oral contraceptive pills, and other medicines from a youth friendly pharmacy (M-Res) then they may increase their access to health services and products, they may increase the use of contraceptives which may lead to reduction in adolescent pregnancy (O) because adolescents will have access to safe and judgement free shops providing them services, they will have trust in the shops and health workers to give them correct information and the anonymous ordering creates autonomy and security for the participants to access services without the threat of exposing their identity - this increases confidence in getting the care required (M-Rea).	For (CyberRwanda)
CMOC8 If adolescents (both boys and girls) living in high teenage pregnancy, STI and HIV prevalent areas (C) are provided free health products like counselling for contraceptives, HIV self-test kits, contraceptives and pregnancy testing at a youth-friendly health facility (M-Res) then they will increase the use of contraceptives and tests, decrease unprotected sex which will subsequently reduce adolescent pregnancy (O) because they will have access to information from	For (In their Hands)

a trusted health professional who understands their needs, does not stigmatize the subject, and keeps the information confidential. The free access also reduces		
financial dependence on parents and gives adolescents the power to make their own choices.		
CMOC35 If adolescents living in areas with high fertility rates and stigma around family planning (C) are provided a digital app with age and literacy-appropriate	For (CyberRwanda)	
FAQ section and a directory to locate youth friendly services either at select schools/youth centres or as self-service facilitated via peer educators (M-Res) then		
they may engage in safe sex behaviour, and access health services more often leading to a reduction in adolescent pregnancy (O) because they engage with the		
information provided to them, which increases their knowledge on risk perception, planning to avoid risk, access and use of contraceptives, which may influence		
their intention towards safe sex practices. The private and secure aspect of using their own app will also reduce stigma around learning about SRH topics (M-		
Rea).		
CMOC33 If adolescents living in areas with high fertility rates and stigma around family planning (C) are provided a digital app with age and literacy-appropriate	For (CyberRwanda)	
stories in a web-comic format on SRH either at select schools/youth centres or as self-service facilitated via peer educators (M-Res) then they may form more		
gender equitable beliefs, engage in safe sex behaviour, and access health services more often leading to reduction in adolescent pregnancy (O) because they		
engage with the information provided to them, which increases their knowledge on risk perception, and use of contraceptives, which may influence their		
intention towards safe sex practices. The peer educators may act as mentors who may motivate the adolescents to engage in safe sex. The private and secure		
aspect of using their own app will also reduce the stigma around learning about SRH topics (M-Rea).		
CMOC17 If adolescents (boys and girls) in peri urban communities with high prevalence of HIV (C) are provided access to trained health professional run, youth-	Against (Yathu Yathu)	
friendly hubs with SRH services and products, digital CSE and referral to health facilities (M-Res) but amidst a public health emergency (COVID) (C) then their SRH		
knowledge, uptake of services, contraceptives and subsequent adolescent pregnancy may not reduce (O) because even though they have a safe space to discuss		
sensitive topics with professionals and peers, have positive reinforcement from the loyalty card to change behaviour and have independence from guardians in		
buying health products these spaces might be closed for extended periods and might be out of stock of various health products which may have led to loss of		
confidence and trust in the services provided (M-Rea).		
CMOC19 If the most vulnerable girls from lower-income backgrounds in both urban and rural areas (C) are provided comprehensive sexual and reproductive	Against (AGEP)	
health education in a safe space in the community and free access to health services at youth-friendly facilities (M-Res), even then they might not have positive		
changes in sexual behaviour, GBV and adolescent pregnancy (O) because the most vulnerable girls might not be able to attend the sessions on SRH at the club		
due to travel restrictions from family, resource constraints to reach the place, responsibilities at home, job, sessions being not culturally appropriate, or they do		
not like the group setting due to privacy issues (M-Rea) thus leading them to not access the health service either.		
CMOC39 If vulnerable adolescent girls living in areas with high HIV burden (C) are provided linkage to youth-friendly sexual reproductive health services, HIV	Against (DREAMS)	
counselling and testing with barcoded card to access results, and GBV prevention and post-violence care and support services (M-Res) then girls may increase		
HIV testing, but may not use contraceptives, reduce transactional sex and seek medical care in case of injuries (O) because the providers are not trained to discuss		
their needs appropriately and privately, girls do not feel comfortable in accessing health services because of restrictive norms around mobility and status of		
women, and safety issues (M-Rea).		
Programme theories for interventions delivered at the community setting		
Targeting adolescent girls		
Programme Theory 6 – Empowering girls through employable life skills		
If vulnerable adolescent girls, both in-school and out-of-school (C1), living in areas with high gender disparities (e.g. low education and sexual knowledge and lim	ited financial resources for g	
(C2) are provided face-to-face structured weekly life-skill sessions (e.g. on topics like health, finance, empowerment, computer training and nutrition) (M-Res1		
Res2) facilitated by trained local female role models /mentors (e.g. unmarried, young, educated, skilled women from the community with formal jobs) (M-Res3)		

Then, girls are likely to continue their education, engage in various employment activities, and postpone marriage and pregnancy (IO)

Because the life skill sessions equip adolescent girls with practical knowledge and skills like problem-solving, goal setting, decision-making and negotiation, which are essential for their personal and professional development (M-Rea1). The safe space with peers fosters a supportive environment for learning, sharing experiences, and building social connections and trust (M-Rea2). The mentors serve as relatable and aspirational figures for the girls, thus helping girls envision possibilities beyond traditional gender roles, motivating them to aspire to higher education and meaningful employment (M-Rea3).

As a result, girls are empowered (M-Rea4) and have higher human and social capital (M-Rea5), which equips them to overcome gender disparities, pursue employment opportunities, and delay marriage and pregnancy until they are ready (O).

## Supported by IPT: IPT 5, 7

CMOC	Evidence from interventions (For/Against PT)
CMOC3 If vulnerable adolescent girls both in school and out of school (C) are provided life skill sessions, including computer training and basic health services	For (KGIS)
skills with female mentors from the community in a group setting (M-Res), then they may get involved in new job opportunities, may study more, postpone	
marriage and pregnancy (O) because the girls will experience low social isolation/ build social networks, gain problem-solving skills, gain technical know-how, get	
regular support from friends and mentors which will lead to an increase their human and social capital and will have improved decision making capacity (M-Rea).	
CMOC22 If uneducated girls in communities with high sexual violence and high premarital sex prevalence (C) are provided trained mentor-led life skill training in	For (AGEP)
a safe space with peers (M-Res), then early pregnancy is delayed or prevented (O) because discussing SRH topics with peers and mentor may increase knowledge	
and reduce the stigma associated with these topics and bring a sense of emotional support and shared experiences that further reduces isolation (M-Res). This	
may motivate them to set positive health and life goals for themselves and increase their decision-making power over their own sexual behaviour (M-Rea).	
CMOC27 If vulnerable girls with low education, self-awareness, sexual knowledge and financial resources (C) are provided life skills training on a variety of health,	For (Sista2Sista)
finance and empowerment topics at a safe space in the community by a trained mentor (M-Res) then for girls who attend all the sessions adolescent pregnancy	
reduces (O) because clubs create a safe space for girls to talk about sensitive topics - which increases trust, belonging, reduction in isolation; interaction between	
girls and mentors also create healthy relationships for girls, mentor may act as a role model - increasing in aspirations, motivation, and emotional support; courses	
in club increase knowledge and skills - increase confidence and self-efficacy - increase in decision making power and judgment for healthy choices (M-Rea).	
CMOC11 If vulnerable adolescents at high risk of HIV, living in disadvantaged communities (C) are provided with economic strengthening courses on budgeting,	Against (ES and HIV)
saving and earning money (M-Res), then their knowledge of economic opportunities and financial knowledge may not increase (O) because they do not have an	
additional intervention component to apply this knowledge that will aid retention of knowledge (M-Rea). Also, as they live in disadvantaged communities without	
channels linking them to economic opportunities (M-Rea) - they will not find gainful employment. So, the knowledge gained will not convert into human capital	
(M-Rea) and, therefore, will not lead to changes in health outcomes.	
CMOC20 If the most vulnerable girls from lower-income backgrounds in both urban and rural areas (C) are provided life skill training by trained female mentors	Against (AGEP)
from the community in a safe space at the community even then they might not have positive changes in sexual behaviour, GBV and adolescent pregnancy (O)	
because the most vulnerable girls might not be able to attend the sessions at the club due to travel restrictions from family, resource constraints to reach the	
place, responsibilities at home, job, sessions are not appropriate for their needs, or they do not like the group setting due to privacy issues (M-Rea) thus limiting	
the translation of session into knowledge, aspiration and self-efficacy.	
Programme Theory 7 - Empowering girls through economic support	
If in-school and out-of-school girls from poor families (C1) living in areas with high gender disparities (C2) are provided financial education or economic literacy	
(M-Res1) and financial assistance in the form of cash transfers, grants to parents or material incentives like payment of school fees (M-Res2)	

Then, they are likely to continue schooling, engage in livelihood opportunities, and postpone marriage (IO) Because girls have decreased financial dependence on families and partners due to cash transfers (M-Rea1), the families have increased financial resources to keep girls in school (M-Rea2). Economic literacy provides girls with essential knowledge and skills to manage their finances effectively, and it empowers them to take control of their economic futures by imparting the skills to advocate for their rights, negotiate for fair wages, access financial services, and pursue entrepreneurial ventures or job opportunities (M-Rea3). As a result, girls have increased economic and human capital (M-Rea4). They have higher control over available resources (M-Rea5) and decision-making capacity (M-Rea6), which might reduce adolescent pregnancy (O). <b>Supported by IPT: IPT 1, 4, 7</b>	
СМОС	Evidence from interventions
	(For/Against PT)
CMOC4 If out-of-school girls (C) are provided financial education by a female mentor from the community combined with cash transfers for the most vulnerable girls (M-Res), then they may have more livelihood opportunities, which may lead to postponement of marriage and subsequent pregnancy (O) because they will have the job-relevant skills - learning by doing will help them retain and apply knowledge - which will increase their human capital. They will have decreased economic dependence on their families, which may increase their decision-making capacity. Regular meetings with mentors will also increase social connectedness and allow girls to form a social network, reducing social isolation and finding gainful employment (M-Rea).	For (KGIS)
CMOC36 If school-going girls (grade 7-8-9) and their families living in rural areas with common issues like school dropout, child marriage and adolescent pregnancy (C) are provided with economic support, consisting of a monthly cash transfer for the girl (ZMW 30), an annual cash grant to her parents/guardians (ZMW 350/year) and direct payment of school fees to school account (up to ZMW 500 per term) (M-Res) then the household poverty levels might decrease, girls may remain in school for longer, they may get married later and may postpone childbearing (O) because the families will have more financial resources to keep the girls in school for longer, they will have more resources to cater to other daily needs and therefore will not have to marry the girl to reduce their financial burden, the girls may have more education which may increase her employability thereby reducing dependence on family and boyfriends. Girls may also be equipped with more knowledge and negotiation skills to communicate with parents and postpone their marriage and subsequent pregnancy/ with partners to postpone childbearing.	For (RISE)
CMOC9 If adolescent girls belonging to poverty-stricken areas with low school retention, low formal employment opportunities and high incidence of child marriage and teen pregnancy (C) are provided unconditional cash transfers, then their families might have increased financial capacity to either send them to school or to invest in their employability or use it for other purposes - which may (in short term) or may not (long term) lead to decrease in child marriage and adolescent pregnancy because there is no clear pathway to ensure that the befit goes to the girls.	Against (SIHR)
CMOC21 If the most vulnerable girls from lower-income backgrounds in both urban and rural areas (C) are provided financial education by trained young mentors from the community in a group setting and access to a savings bank account, even then they might not have positive changes in knowledge on financial decision making, sexual behaviour, GBV and adolescent pregnancy (O) because they might not participate in the program or attend the session due to pre-existing barriers (see above) (M-Rea) even though these sessions and account are targeted to increase their economic asset.	Against (AGEP)
CMOC 42 If families of vulnerable adolescent girls living in areas with high HIV burden and poverty (C) are provided educational subsidies (M-Res), even then girls may not stay in school for longer, they may not have better learning outcomes, and may not see reduction in adolescent pregnancy (O) because if subsidy goes directly to school the family would not see overall increase in funds and the families with limited financial resources may not want to invest in the education of their daughters (M-Rea).	Against (DREAMS)

## Targeting community members

Programme Theory 8 – Active involvement and Community Support for Adolescent Girls' Rights

If stakeholders involved in childcare (including parents, health workers and broader community members) (C1) living in areas with high gender disparities (e.g. school dropout, high prevalence of child marriage and adolescent pregnancy) (C2) are engaged in community dialogue (M-Res1) and are provided health information using multimedia channels (radio, TV, in-person activities) on topics related to gender disparities (M-Res2) by trained community mobilisers (e.g. mentors, teachers) at a commonplace in the community (M-Res3)

Then, it is likely that school dropout would reduce and child marriage and adolescent pregnancy would decrease (IO, O)

Because there will be an increased understanding of the lived realities of girls in the community (M-Rea1). Community dialogue will promote ownership, buy-in, and commitment to implementing solutions within the community (M-Rea2). Restrictive social norms around these topics will be reduced by fostering a sense of collective responsibility and solidarity in the community (M-Rea3). There will be increased communication and trust between adolescent girls and their caregivers (M-Rea4), and girls will feel supported in voicing their opinions (M-Rea5). Disseminating health information to community members will enhance access to information and services and improve their participation in health-seeking for their children (M-rea6).

As a result, stakeholders strengthen interpersonal and family bonds (M-Rea7). They can better support their children, enabling children to strengthen their self-esteem, develop trust, and find ways to negotiate with caregivers (M-Rea8), which may lead to delay in child marriage, the continuation of school and reduced adolescent pregnancy (O).

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CMOC	Evidence from interventions
	(For/Against PT)
CMOC5 If families in communities with high child marriage prevalence (C) are engaged in group meetings with teachers and mentors on adverse effects of Child	For (KGIS)
Marriage on adolescent girls, like impact on health, education, and employment opportunities (M-Res), then child marriages may reduce (O) because the people	
in the community will have an increased understanding of the lived realities of girls - which will increase support for education, skill building and shift social and	
gender norms to support girls and their future aspirations (M-Rea).	
CMOC18 If peri-urban communities/families with a high prevalence of HIV (C) are provided community engagement activities by trained community mobilisers	For (Yathu Yathu)
on SRH topics and services available for adolescents (M-Res) then social norms and stigma around these topics will reduce, leading to increased communication	
and support between parents and adolescents - further leading to positive sexual behaviour change (O). But in case of a public health emergency, these activities	
will be stopped, and a norm shift will not occur (M-Rea). Thus, leading to no impact on health.	
CMOC26 If families in communities in high pregnancy districts (C) are provided with information and community engagement activities on health services	For (CSE Health Facility
available for adolescents at youth-friendly facilities (M-Res), then stigma and negative social norms around SRH will be reduced subsequently leading to uptake	Linkages)
of services - risk reduction - and reduction adolescent pregnancy (O) because this will create a judgement-free atmosphere to access care for adolescents -	
increase in confidence, trust and sense of belonging for them in the community, and improve communication between parents and children (M-Rea).	
CMOC37 If parents, health workers and the broader community members in rural areas with common issues like school dropout, child marriage and adolescent	For (RISE)
pregnancy (C) are involved in a community dialogue around education for girls, postponement of early marriage and early childbearing, the importance of	
providing youth-friendly health services and the risks and benefits of early childbearing (M-Res) then they may form more supportive/progressive community	
norms around educating girls, keeping them in school, marrying them later (O) because people in the community will have an increased understanding of girls	
lived realities and the impact on their health and wellbeing because of early marriage and child bearing - which will increase support for education, shift social	
and gender norms to support girls and their future aspirations (M-Rea).	
CMOC6 If families living in high teenage pregnancy, STI and HIV prevalent areas (C) are targeted for community sensitisation on adolescent SRH through a radio	For (In their Hands)
program on non-judgemental communication between parents and adolescents on sexual health (M-Res), then parents and adolescents will discuss SRH topics	
freely, adolescents' SRH knowledge will increase, and their contraceptive knowledge will increase subsequently leading to increase in contraceptive use and	

reduction in adolescent pregnancy (O) because adolescents will have a supportive environment in their families and communities where they can discuss sensitive topics, and have the power to make the right choice for themselves.	
CMOC32 If parents, caregivers and teachers (C) are provided SRH education material addressing cultural taboos in talking to adolescents about these topics and a radio program of the interactive drama (M-Res), then it may change their views and beliefs about contraceptive use, healthy relationships and how to communicate with their children - creating progressive gender and social norms (IO) because they will have the knowledge on these topics, and may discuss it with other caregivers and peers after listening to the radio show. They also apply these communication techniques with their children to improve their relationships (M-Rea).	
CMOC43 If communities and caregivers in high HIV burden areas (C) are provided awareness and information on HIV and gender-based violence prevention (M- Res), even then, the incidence of violence, and HIV infection may not reduce (O) because community members and caregivers do not engage with these awareness activities. Thereby not leading to changes in restrictive social norms and not creating supportive environment for adolescent girls (M-Rea).	Against (DREAMS)