





Evidence Assessment: Summary of a Systematic Review

Who is this summary for?

Administrators and head teachers of schools, and the stakeholders involved in HIV prevention.

School-based interventions for preventing HIV, sexually transmitted infections, and pregnancy in adolescents

Key findings

- Educational programmes alone probably have no effect on the number of young people infected with human immunodeficiency virus (HIV) during adolescence.
- Giving monthly cash, or free school uniforms, to encourage students to stay in school may have no effect on the number of young people infected with HIV during adolescence.
- Giving an incentive such as a free school uniform combined with a programme of sexual and reproductive health education may reduce (sexually transmitted infections) STIs in young women, but no effect was detected for HIV or pregnancy

Background

Sexually active adolescents in many countries, particularly young women, are at high risk of contracting HIV and other STIs. Early unintended pregnancy can also have a detrimental impact on young people's lives.

The school environment plays an important role in the development of children and young people, and curriculum-based sexuality education programmes have become popular in many regions of the world. While there is some evidence that these programmes improve knowledge and reduce self-reported risk taking, this review evaluated whether they have any impact on the number of young people that contracted STIs or on the number of adolescent pregnancies.

Questions

What are the effects of school-based sexual and reproductive health programmes on sexually transmitted infections (such as HIV, herpes simplex virus, and syphilis), and pregnancy among

adolescents?

School-based interventions for preventing HIV, sexually transmitted infections, and pregnancy in adolescents in Cameroon. According to the 2011 Demographic and Health Survey, HIV prevalence among young people aged 15-24 years is 1.7%. The rate of infection is slightly higher among young women living in urban areas (2.9%) than in rural areas (2.6%). Reproductive health courses are given to adolescent in school. This intervention could help to prevent HIV, sexually transmitted infections, and pregnancy in adolescents.

	What the review authors searched for	What the review authors found		
Studies	Randomized controlled trials	Eight cluster-randomized trials met the inclusion criteria		
Participants	Adolescents (defined as 10 to 19 year olds) attending	Adolescents (defined as 10 to 19 year olds) attending primary,		
	primary, middle, or high (secondary) school at the time of the	middle, or high (secondary) school at the time of the		
	intervention.	intervention.		
Interventions	We included any intervention that aimed to reduce the risk of	Seven of the eight trials included a specific sexual and		
	HIV or other sexually transmitted infections (STIs) or	reproductive health educational component in the intervention		
	pregnancy among adolescents, and was primarily conducted in schools or linked to schools or school attendance, with or	and were based on a range of theoretical frameworks. These interventions focused specifically on changing knowledge,		
	without a community component. Some were curriculum-	attitudes, behaviours, and norms related to sexual and		
	based educational interventions primarily delivered by adults	reproductive health. The educational component ranged in		
	(teachers, or other adults) or peers (peer educators), or	intensity from three, one hour sessions in one school year to		
	included additional features to change the school or	36 sessions of 40 minutes over three school years.		
	community environment (for example, by changing	Three trials incorporated trained peer educators into their		
	school policies or improving health services).	intervention, two incorporated nurse or health worker training to		
		encourage participants, and one included a parental training		
		component. Drama (including video dramas), games, or role		
		play were incorporated into five of the intervention		
		programmes. Four of the seven trials reported some mention of gender roles		
		Condoms were not given freely to participants in any of the		
		trials, but were demonstrated to students in two trials, and sold		
		and marketed to young people in one trial.		
Controls	Placebo, control vaccines or no intervention	Combined incentive and educational programmes		
		No intervention		
Outcomes	Clinical/biological outcomes:	HIV incidence		
	HIV prevalence;	HIV prevalence		
	STI prevalence;	Pregnancy		
	Pregnancy prevalence.	 Use of male condoms at first sex; 		
	Behavioural self-reported outcomes:	 Use of male condoms at most recent (last) sex; 		
	Use of male condoms at first sex;	Incidence of sexual initiation (sexual debut).		
	Use of male condoms at most recent (last) sex;			
Data of the mos	Incidence of sexual initiation (sexual debut).			
	st recent search: 7 April 2016. is is a high quality systematic review, AMSTAR =11/11			
	son-Jones AJ, Sinclair D, Mathews C, Kagee A, Hillman A, Lomb	and C. School based interventions for preventing		
	nsmitted infections, and pregnancy in adolescents. Cochrane Da			
	10.1002/14651858.CD006417.pub3.	abase of Oystematic Neviews 2010, 13500 11. Alt. 100.		

Table 2: Summary of findings

Educational programmes to reduce HIV, STIs, and pregnancy in adolescents

Patient or population: adolescents.

Settings: schools and communities

Intervention: sexual and reproductive health educational interventions delivered through schools Control: no intervention

Outcomes: HIV, STI's or pregnancy confirmed biologically by blood or urine test

Outcomes	Relative effect (95% Cl)	No of Participants (studies)	Quality of the evidence (GRADE)
HIV prevalence	1.03	14 163	Low
Follow-up: 18 months to 3 years	[0.80-1.32]	(3)	
HSV 2 prevalence	1.04	17688	Moderate
Follow-up: 18 months to 3 years	[0,94-1,15]	(3)	
Syphillis prevalence	0.81	6977	Low
Follow-up: 18 months to 3 years	[0.47-1.39]	(1)	
Pregnant at end of trial	0.99	8280	Moderate
Follow-up: mean 3 years	[0.85-1.16]	(3)	

*HIV=human immunodeficiency virus; HSV= herpes simplex virus; STI=sexually transmitted infection

Applicability

The trials were conducted in Chile (1), England (2), Malawi (1), Zimbabwe (1), Kenya (1), South Africa (1), Tanzania (1). These interventions may be applied in other low resources settings such as Cameroon.

Conclusions

There is currently little evidence that educational programmes alone are effective at reducing STIs or adolescent pregnancy.

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