Khan 2008

Khan AA, Rehan N, Qayyum K, Khan A. Correlates and prevalence of HIV and sexually transmitted infections among hijras (male transgender) in Pakistan. *International Journal of STD and AIDS* 2008;19:817–820.

Khobotla 2009

Khobotlo M, Tshehlo R, Nkonyana J, Ramoseme M, Khobotle M, Chitoshia A, et al.Lesotho: HIV prevention response and modes of transmission analysis. Lesotho National AIDS Commission 2009.

Laga 1994

Laga M, Alary M, Nzila N, Manoka AT, Tuliza M, Behets F, et al. Condom promotion, sexually transmitted disease treatment, and declining incidence of HIV-1 infection in female Zairian sex workers. *Lancet* 1994;344:246–248.

Lowndes 2008

Lowndes CM, Alary M, Belleau M, Bosu WK, Kintin DF, Nnorom JA, et al. West Africa HIV/AIDS epidemiology and response synthesis: implication for prevention. West HIV/AIDS epidemiology and response synthesis: implications for prevention. Washington DC: World Bank, 2008.

Mngadi 2009

Mngadi S, Fraser N, Mkhatshwa H, Lapidos T, Khumalo T, Tsela S, et al. Swaziland: HIV prevention response and modes of transmission analysis. Mbabane National Emergency Response Council on HIV/AIDS 2009.

Morris 2006

Morris CN, Ferguson AG. Estimation of the sexual transmission of HIV in Kenya and Uganda on the trans-Africa highway: the continuing role for prevention in high risk groups. *Sexually Transmited Infections* 2006;**82**:368–371.

Nguyen 2008

Nguyen TA, Nguyen HT, Le GT, Detels R. Prevalence and risk factors associated with HIV infection among men having sex with men in Ho Chi Minh City, Vietnam. *AIDS and behavior* 2008;12 (3):476–482.

Padilla 2008

Padilla M, Castellanos D, Guilano-Ramos V, Reyes AM, Marte LES, Soriano M. Stigma, social inequity, and HIV risk disclosure among Dominican male sex workers. *Social Science & Medicine* 2008:67(3):380–388.

Pisani 2004

Pisani E, Girault P, Gultom M, Sukartini N, Kumalawati J, Jazan S, et al.HIV, syphilis infection and sexual practices among transgender, male sex workers, and other men who have sex with men in Jakarta, Indonesia. Sexually Transmitted Infections 2004;80(6):536–540.

Revman 2008

The Cochrane Collaboration. Review Manager (Revman 5.0). Copenhagen: The Nordic Cochrane Centre, 2008.

Shawky 2009

Shawky S, Soliman C, Kassak KM, Oraby D, El-Khoury D, Kabore I. HIV surveillance and epidemic profile in the Middle East and North Africa. *Journal of Acquired Immune Deficiency Syndromes* 2009;51:S83–S95.

Soto 2007

Soto RJ, Ghee AE, Nunez CA, Mayorga R, Tapia KA, Astete SG, et al. Sentinel surveillance of sexually transmitted infections/HIV and risk behaviors in vulnerable populations in 5 Central American Countries. *Journal of Acquired Immune Deficiency Syndromes* 2007; 46(1):101–111.

Steen 2009

Steen R, Wi TE, Kamali A, Ndowa F. Control of sexually transmitted infections and prevention of HIV transmission: mending a fractured paradigm. *Bulletin World Health Organization* 2009;87(11):858–865.

Tierney 2009

Tierney JF, Stewart LA. Investigating patient exclusion bias in metaanalysis. *International Journal of Epidemiology* 2005;34:79–87.

UNAIDS 2002

UNAIDS. Sex works and HIV/AIDS. Geneva: Joint United Nations Programme on HIV/AIDS 2002.

UNAIDS 2009

UNAIDS. AIDS epidemic update. http://data.unaids.org/pub/Report/2009/JC1700_Epi_Update_2009_en.pdf 2009.

Vuylsteke 2009

Vuylsteke B, Das A, Dallabetta G, Laga M. Chapter 14: Preventing HIV among sex workers. In: Mayer KH, Pizer HF editor(s). *HIV prevention: a comprehensive approach*. First Edition. San Diego: Elsevier, 2009.

Wabwire-Mangen 2009

Wabwire-Mangen F, Odiit M, Kirungi W, Kisitu DK, Wanyama JO. Uganda HIV modes of transmission and prevention response analysis. Uganda National AIDS Commission 2009.

Wang 2009

Wang H, Chen RY, Ding G, Ma Y, Ma J, Jiao JH, et al. Prevalence and predictors of HIV infection among female sex workers in Kaiyuan City, Yunnan Province, China. *International Journal of Infectious Diseases* 2009;13(2):162–169.

Weir 2008

Weir SS, Figueroa JP, Byfield L, Hall A, Cummings S, Suchindran C. Randomized controlled trial to investigate impact of site-based safer sex programmes in Kingston, Jamaica: trial design, methods and baseline findings. *Tropical Medicine and International Health* 2008;13(6):801–813.

WHO 2009

World Health Organization. Toward universal access: scaling up priority of HIV/AIDS interventions in the health sector. Progress report 2009. Geneva:WHO 2009.

Wolffers 2003

Wolffers I, Van Beelen N. Public health and human rights of sex workers. *Lancet* 2003;**361**(9373):1981.

World Bank

Developing country. http://youthink.worldbank.org/glossary.php#

* Indicates the major publication for the study

Behavioral interventions to reduce the transmission of HIV infection among sex workers and their clients in low-income and middle-income countries (Protocol)

Copyright © 2010 The Cochrane Collaboration. Published by John Wiley & Sons, Ltd.

WHAT'S NEW

				- 4335			riptio	Des	e a grande	48					Event		e	Dat
4945	 - 1482	34.	0.882	115638315		1981		7.15	3.2			£		. 188	188		13.1	- 1977
				hor tea	w aut	ol, ne	protoc	Nev	nges	or cha	l majo	ed and	n requii		New c	per 2010	pten	2 Se
				hor tea	w aut	ol, ne	protoc	Nev	nges	or cha	l majo	red and	n requii	100	2.00		pten	2 Se

HISTORY

Protocol first published: Issue 2, 2005

Date Event	Description
15 February 2010 New citation required and major changes	Made protocol a "clean slate" for new author team.
11 November 2008 Amended	Converted to RevMan 5, and re-published without new citation.

CONTRIBUTIONS OF AUTHORS

WW and EO designed, set up, and drafted the protocol. RM, NH, and KS revised the article. KS and RM supervised development of the protocol. All authors read and approved the final protocol.

DECLARATIONS OF INTEREST

We declare that we have no conflict of interest.

SOURCES OF SUPPORT

Internal sources

• Health Labour Sciences Research Grant, Japan.

External sources

• No sources of support supplied

Copyright © 2010 The Cochrane Collaboration. Published by John Wiley & Sons, Ltd.

資料2

コクランレビュー・フォレストプロット

1 Comparison intervention versus control

1.1 STI incidence

,	Experim	ental	Conti	rol		Risk Ratio	Risk	Ratio	
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% CI	M-H, Rand	om, 95% CI	
Archibald 1994	64	182	82	199	58.1%	0.85 [0.66, 1.10]			
Wong 1998	3	124	15	122	41.9%	0.20 [0.06, 0.66]			
Total (95% CI)		306		321	100.0%	0.46 [0.11, 1.98]		-	
Total events	67		97						
Heterogeneity: Tau ² =				= 0.02);	l² = 82%	<u> </u>	0.01 0.1	1 10	100
Test for overall effect:	Z = 1.04 (F	P = 0.30)			Fav	ours experimental	Favours con	trol

1.2 STI prevalence

Experim	ental	Conti	rol		Risk Ratio		Ris	k Ratio	
Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl		M-H, Fiz	red, 95% Cl	
1	141	11	147	100.0%	0.09 [0.01, 0.72]			-	
	141		147	100.0%	0.09 [0.01, 0.72]			-	
1		11						İ	
plicable Z = 2.27 (F	e = 0.02))			Γ.	0.01	0.1	1 10	100
	Events 1 1 plicable	1 141 141 1 plicable	Events Total Events 1 141 11 141 11 11	Events Total Events Total 1 141 11 147 141 147 147 1 11 11 plicable 1 1	Events Total Events Total Weight 1 141 11 147 100.0% 1 141 147 100.0% 1 11 11 plicable 11 11	Events Total Events Total Weight M-H, Fixed, 95% CI 1 141 11 147 100.0% 0.09 [0.01, 0.72] 1 141 147 100.0% 0.09 [0.01, 0.72] 1 11 11 plicable 7 = 2.27 /B = 0.03 0.03	Events Total Events Total Weight M-H, Fixed, 95% CI 1 141 11 147 100.0% 0.09 [0.01, 0.72] 1 141 147 100.0% 0.09 [0.01, 0.72] 1 11 plicable 0.01	Events Total Events Total Weight M-H, Fixed, 95% CI	Events Total Events Total Weight M-H, Fixed, 95% Cl M-H, Fixed, 95% Cl 1 141 11 147 100.0% 0.09 [0.01, 0.72] 1 11 11 11 100.0% 0.09 [0.01, 0.72] 1 11 11 100.0% 0.09 [0.01, 0.72] 0.01

1.3 condom use

	Experim	ental	Conti	rol		Risk Ratio		Risk	Ratio		
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl		M-H, Fixe	d, 95% C	<u> </u>	
Archibald 1994	140	182	145	199	29.1%	1.06 [0.94, 1.19]		·			
Lau 2010	7	9	12	17	1.7%	1.10 [0.69, 1.75]		_	-		
Surratt 2010	242	254	241	252	50.8%	1.00 [0.96, 1.03]					
Wong 1998	99	124	87	122	18.4%	1.12 [0.97, 1.29]			r		
Total (95% CI)		569		590	100.0%	1.04 [0.99, 1.09]					
Total events	488		485						1		
Heterogeneity: Chi ² =	5.71, df = 3	(P = 0.1	13); l² = 4	7%			0.01	0.1	1	10	100
Test for overall effect:	Z = 1.51 (F	P = 0.13))			Fa		experimental	•		

1.4 knowledge of HIV transmission

	Experim	ental	Conti	rol		Risk Ratio		Risk	Ratio		
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl		M-H, Fixe	d, 95% C	<u>;; </u>	
Archibald 1994	153	182	92	199	66.5%	1.82 [1.55, 2.14]					
Lau 2010	84	141	45	146	33.5%	1.93 [1.46, 2.55]			#		
Total (95% CI)		323		345	100.0%	1.86 [1.61, 2.14]			•		
Total events	237		137								
Heterogeneity: Chi ² =	0.14, df = 1	(P = 0.1)	71); l² = 0	1%			0.01	0.1	1	10	100
Test for overall effect:	Z = 8.47 (F	o.000	001)			F		experimental	Favour		

1.5 Visited FSW

	Experime	Experimental		Control		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% Cl
Lau 2010	9	141	17	145	100.0%	0.54 [0.25, 1.18]	-
Total (95% CI)		141		145	100.0%	0.54 [0.25, 1.18]	•
Total events	9		17				
Heterogeneity: Not ap	plicable						0.01 0.1 1 10 100
Test for overall effect:	Z = 1.54 (F	P = 0.12)			F	avours experimental Favours control

1.6 Perceiving very high efficacy of condom use for HIV prevention

	Experimental		Control			Risk Ratio		Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixe	d,95% Cl
Lau 2010	39	141	30	146	100.0%	1.35 [0.89, 2.04]		
Total (95% CI)	·	141		146	100.0%	1.35 [0.89, 2.04]		•
Total events	39		30					
Heterogeneity: Not ap	plicable						0.01 0.1	10 100
Test for overall effect	Z = 1.40 (F	P = 0.16)			F	avours experimental	Favours control

1.7 physical victimization

	Experim	ental	Control			Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Surratt 2010	33	254	33	252	100.0%	0.99 [0.63, 1.56]	T
Total (95% CI)		254		252	100.0%	0.99 [0.63, 1.56]	•
Total events	33		33				
Heterogeneity: Not ap	plicable						0.01 0.1 1 10 100
Test for overall effect	Z = 0.03 (F	P = 0.97)			F	avours experimental Favours control

1.8 Sexual victimization

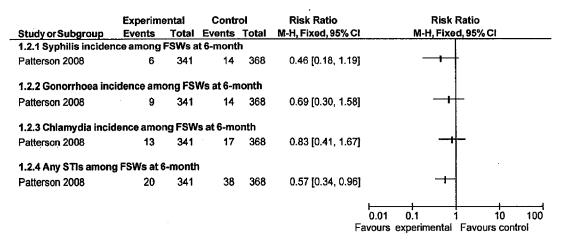
	Experim	ental				Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Surratt 2010	18	254	18	252	100.0%	0.99 [0.53, 1.86]	-
Total (95% CI)		254		252	100.0%	0.99 [0.53, 1.86]	+
Total events	18		18				
Heterogeneity: Not ap	plicable						0.01 0.1 1 10 100
Test for overall effect	Z = 0.02 (F	P = 0.98)			· F	avours experimental Favours control

1 Social cognitive theory versus standard counseling for promotion of condom use

1.1 HIV incidence among FSWs at 6-month

	Experim	ental	Conti	·ol		Risk Ratio		Ris	k Ratio	
Study or Subgroup	Events	Total	Events	Total W	leight	M-H, Fixed, 95% CI		M-H, Fix	ced, 95% CI	
Patterson 2008	0	341	4	368		0.12 [0.01, 2.22]		. !	+ .	
							0.01	0.1	1 10	100
						Fa	vours	experimenta	l Favours o	control

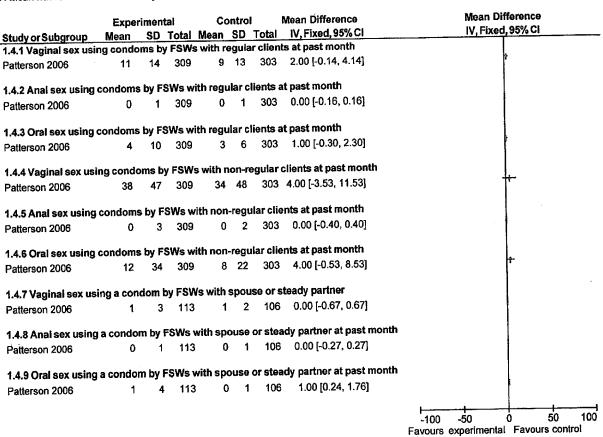
1.2 STIs incidence among FSWs at 6-month



1.3 Consistent condom use by FSWs at 6-month

	Favours experie	nental	Contr	ol		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Patterson 2008	257	307	254	337	78.6%	1.11 [1.03, 1.20]	
Wechsberg 2006	78	80	66	80	21.4%	1.18 [1.06, 1.32]	-
Total (95% CI)		387		417	100.0%	1.13 [1.05, 1.20]	•
Total events	335		320				
Heterogeneity: Chi ² =)%				0.01 0.1 1 10 100
Test for overall effect:	Z = 3.54 (P = 0.00)	04)				Fa	avours experimental Favours control

1.4 Mean number of condom use by FSWs at past month



1.5 Sexual activity outcomes by FSWs at past month

	Expe	rimen	tal	C	ontrol	l	Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	IV, Fixed, 95% Cl	IV, Fixed, 95% CI
1.5.1 Had vaginal se	x at past	month	1				•	ļ.
Patterson 2008	57	59.8	409	54.8	55.2	460	2.20 [-5.48, 9.88]	T
1.5.2 Had anal sex a	t past mo	onth						j
Patterson 2008	8.4	13.3	409	9.6	16.5	460	-1.20 [-3.18, 0.78]	
1.5.3 Had vaginal an	d anal se	ex at p	ast mo	nth				Į.
Patterson 2008	58.6	60.7	409	56.8	56.6	460	1.80 [-6.03, 9.63]	1
1.5.4 Had oral sex a	t past mo	onth						
Patterson 2006	18	42	309	12		303	6.00 [0.23, 11.77]	Ť
					•			-100 -50 0 50 100
							1	Favours experimental Favours control

1.6 Mean number of protected sex among FSWs at 6-month

	Expe	rimen	tal	C	ontrol			Mean Difference		Mean D			
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% C	;1	IV, Fixe	a, 95% C	<u>.ı</u>	
Patterson 2008	51.6	49.1	307	43.9	49.1	337		7.70 [0.11, 15.29)]		<u> </u>		
									-100	-50	ò	50	100
									Favours	experimental	Favou	rs cont	rol

1.7 Injected drug use among FSWs at 6-month

	Experime	ental	Conti	rol		Risk Ratio			Risk Rati	io	
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI		M-H	Fixed, 9	5% CI	
Patterson 2008	66	409	88	460		0.84 [0.63, 1.13]	•		-1		
					: -		0.01	0.1	1	10	100
						F:	avours	experime	ntal Fav	ours con	trol

1.8 Drug use among FSWs at 6-month

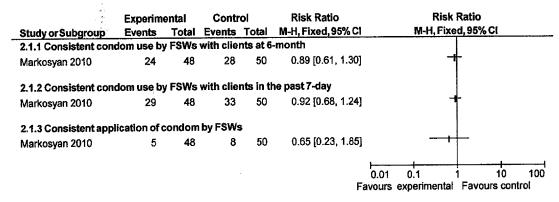
	Experim	ental	Conti	ol		Risk Ratio		Risk	Ratio	
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI		M-H, Fixe	d, 95% CI	
Patterson 2006	10	309	. 22	303	41.0%	0.45 [0.21, 0.93]		- 11		
Wechsberg 2006	26	80	32	80	59.0%	0.81 [0.54, 1.23]		-	 	
Total (95% CI)		389		383	100.0%	0.66 [0.46, 0.95]		•		
Total events	36		54							
Heterogeneity: Chi ² =			2%			0.01	0.1) 100	
Test for overall effect:	: Z = 2.21 (F	° = 0.03))			Fa	••••	experimental		

1.9 Alcohol use among FSWs at 6-month

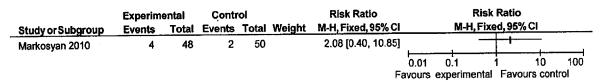
	Experim	ental	Cont	rol		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, F <u>ixed, 95% Cl</u>
Patterson 2006	34	309	47	303	85.6%	0.71 [0.47, 1.07]	•
Wechsberg 2006	4	80	8	80	14.4%	0.50 [0.16, 1.59]	
Total (95% CI)		389		383	100.0%	0.68 [0.46, 1.00]	•
Total events	38		55				
Heterogeneity: Chi2 =				1%			0.01 0.1 1 10 10
Test for overall effect	: Z = 1.96 (F	P = 0.05))			Fa	ivours experimental Favours control

2 Social cognitive theory versus no intervention for promotion of condom use

2.1 Consistent condom use by FSWs



2.2 HIV knowledge among FSWs at 6-month



2.3 Psychosocial barriers to condom use among FSWs at 6-month

	Experimental		Control		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	M-H, Fixed, 95% CI	M-H, Fixed, 95% Cl
2.3.1 Condom barries	rs among F	SWs at	6-month			
Markosyan 2010	8	48	10	50	0.83 [0.36, 1.93]	
2.3.2 Condom use se	lf-efficacy	among	FSWs at	6-mon	th	
Markosyan 2010	18	48	12	50	1.56 [0.85, 2.89]	
						0.01 0.1 1 10 100
					F	avours experimental Favours control

3 Community empowerment versus standard care for promotion of condom use

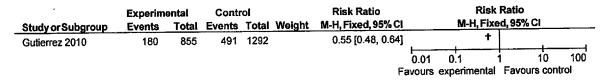
3.1 STIs prevalence among FSWs at 36-month

	Experimental Events Total		Control		Risk Ratio	Risk Ratio
Study or Subgroup			Events	Total	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
3.1.1 Syphilis prevale	ence at 6-m	onth				
Gutierrez 2010	129	1292	68	855	1.26 [0.95, 1.66]	
3.1.2 HSV-2 prevaler	nce at 6-mo	nth				
Gutierrez 2010	375	1292	180	855	1.38 [1.18, 1.61]	*
					F	01 0.1 1 10 100
						ours experimental Favours control

3.2 Consistent condom use by FSWs with clients

	Experim	ental	Control			Risk Ratio	Risk		
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fixe	d, 95% CI	
Basu 2004	67	90	58	93	5.4%	1.19 [0.98, 1.46]	_	<u> </u>	
Gutierrez 2010	1279	1292	838	855	94.6%	1.01 [1.00, 1.02]			
Total (95% CI)		1382		948	100.0%	1.02 [1.00, 1.04]			
Total events	1346		896						
Heterogeneity: Chi ² =	5.37, $df = 1$	(P = 0.	02); $I^2 = 8$	31%			0.01 0.1	1 10	100
Test for overall effect: Z = 2.48 (P = 0.01)						F	avours experimental		ntrol

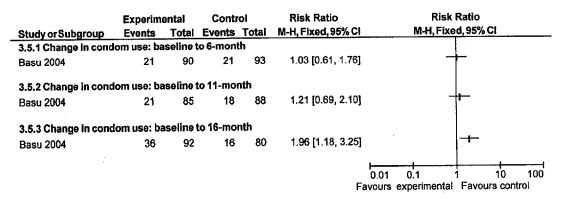
3.3 Consistent condom use by FSWs with regular partners



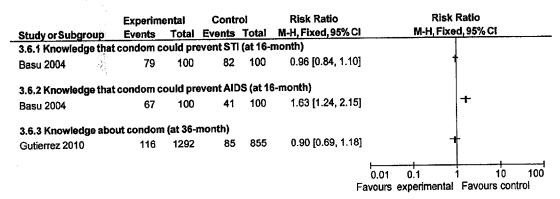
3.4 Change in 100% condom use by FSWs

	Experim	ental	Conti	rol	Risk Ratio		Risk	Ratio
Study or Subgroup	Events	Total	Events	Total	M-H, Fixed, 95% Cl		M-H, Fix	ed, 95% CI
3.4.1 Change in cond	dom use: ba	seline	to 6-mon	th				
Basu 2004	35	90	17	93	2.13 [1.29, 3.51]			
3.4.2 Change in cond	dom use: ba	aseline	to 11-mo	nth				
Basu 2004	35	85	16	88	2.26 [1.36, 3.77]			
3.4.3 Change in cond	dom use: ba	aseline	to 16-mo	nth				
Basu 2004	37	92	19	80	1.69 [1.06, 2.70]			-
						ļ		1 10 10
					Fa	0.01 evours	0.1 experimenta	1 10 100 I Favours control

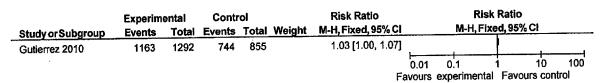
3.5 Change in any condom use by FSWs



3.6 HIV knowledge among FSWs



3.7 HIV testing by FSWs at 36-month



3.8 Skills of risk and protective factors among FSWs at 16-month

	Experimental		Conti	ol	Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
3.8.1 Know that she	at risk for S	Tis				
Basu 2004	59	100	55	100	1.07 [0.84, 1.37]	†
3.8.2 Refused a clien	nt by FSWs	for a pa	rticular s	sex		
Basu 2004	62	100	53	100	1.17 [0.92, 1.49]	†
3.8.3 Refused sex by	FSWs with	ı a clier	it who re	fused c	ondom	
Basu 2004	42	100	38	100	1,11 [0.79, 1.55]	*
						0.01 0.1 1 10 100
						0.01 0.1 1 10 100 vours experimental Favours control

3.9 Type of sexual practices by FSWs at baseline

	Experim	ental	Contr	rol	Risk Ratio		
Study or Subgroup	Events	Total	Events	Total	M-H, Fixed, 95% CI	M-H, Fixed, 95%	6CI
3.9.1 Vaginal sex							
Basu 2004	96	100	99	100	0.97 [0.93, 1.01]		
3.9.2 Rectal sex							
Basu 2004	5	100	9	100	0.56 [0.19, 1.60]		
3.9.3 Oral sex							
Basu 2004	21	100	24	100	0.88 [0.52, 1,47]	-1	
					1		-11
•					0.01 Favour	0.1 1 s experimental Favo	10 100 ours control

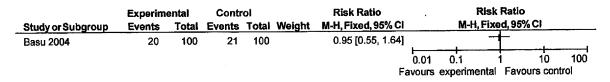
3.10 Drug use by FSWs at baseline

	Experim	Conti	Control		Risk Ratio		Risk Ratio			
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI		M-H, Fixe	d, 95% CI	
Basu 2004	3	100	0	100		7.00 [0.37, 133.78]			1	<u>-</u>
							0.01	0.1	1 10	100
					1	Fa	avours	experimental	Favours conti	rol

3.11 Alcohol use by FSWs at baseline

	Experim	ental	Contr	ol		Risk Ratio		Risi	Ratio		
Study or Subgroup	Events_	Total.	Events	Total	Weight	M-H, Fixed, 95% CI		M-H, Fix	ed, 95% C	1	
Basu 2004	34	100	36	100		0.94 [0.65, 1.38]	١.		1		
							0.01	0.1	1	10	100
						F	avours	experimental	Favours	s contre	ol

3.12 Verbally abused at 3-month

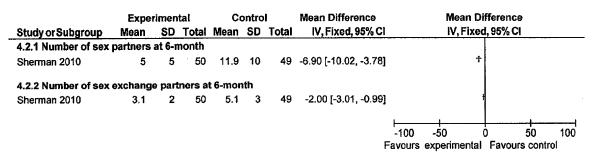


4 Microenterprise plus education intervention versus education alone for reducing the number of sex partners

4.1 Consistent condom use by FSWs at 6-month

	Experim	ental	Conti	ol	Risk Ratio Risk Ratio					
Study or Subgroup	Events	Events Total Events Total Weight M-H, Fi						M-H, Fis	ced, 95% CI	
Sherman 2010	48	50	47	49		1.00 [0.92, 1.09]	,		† .	
						* *	0.01	0.1	1 10	100
						F:	avours	experimenta	l Favours o	control 🥤

4.2 Number of FSWs' partners at 6-month



5 Peer education versus standard care for promoting HIV testing and condom use

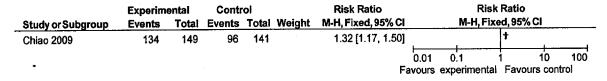
5.1 Mean number of consistent condom use by FSWs at 6-month

	Expe	rimen	tal	С	ontrol			Mean Difference		Mean Difference			
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% C	1	iV, Fixe	ed, 95% CI		
Chiao 2009	1.61	1.24	149	1.7	0.97	141		-0.09 [-0.35, 0.17	1.				
									-100	-50	0	50	100
									Favours	experimenta	i Favours	cont	rol

5.2 Mean score of HIV knowledge among FSWs at 6-month

		Expe	rimen	tal	C	ontrol			Mean Difference		Mea	n Differe	nce	
Study or Subgroup)	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% C	1	IV, F	ixed, 95%	6CI	
Chiao 2009		6.98	1.3	149	5.9	1.43	141		1.08 [0.76, 1.40	1		Ĭ		
										-100	-50	0	50	100
										Favours	experime	ntal Fav	ours conf	rol `

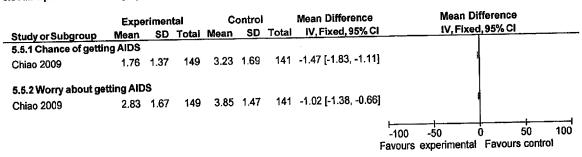
5.3 HIV testing by FSWs at 6-month



5.4 AIDS perceived control by FSWs at 6-month

	Experime	ental	Contr	ol	Risk Ratio	Risk Ratio
Study or Subgroup	Events Total		Events	Total	M-H, Fixed, 95% Cl	M-H, Fixed, 95% CI
5.4.1 To avoid AIDS c	ontraction					
Chiao 2009	113	149	106	141	1.01 [0.88, 1.15]	Ţ
5.4.2 To control AIDS	contractio	n				
Chiao 2009	117	149	119	141	0.93 [0.83, 1.04]	
5.4.3 To lower chance	e of getting	AIDS				4
Chiao 2009	59	149	75	141	0.74 [0.58, 0.96]	1
					I— 0.0 Favou	01 0.1 1 10 100 urs experimental Favours control

5.5 AIDS perceived severity by FSWs at 6-month



6 Peer education plus clinic based counseling versus peer education only for promotion of condom use

7.1 Mean number of consistent condom use by FSWs at 6-month

	Expe	rimen	tal	С	ontrol			Mean Difference		Mean Difference			
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% C	1	łV, I	Fixed, 95%	6 CI	
Chiao 2009	3.04	1.87	415	1.7	0.97	. 141		1.34 [1.10, 1.58]	1			
									-100	-50		50	100
									Favours	experime	ntal Fav	ours cont	rol

7.2 Mean score of HIV knowledge among FSWs at 6-month

	Experimental			С	ontrol			Mean Difference Mean Difference				nce	
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% C	:1	IV,	Fixed, 95°	% CI	
Chiao 2009	6.79	1.39	415	5.9	1.43	141		0.89 [0.62, 1.16]				
									-100	-50	Ö	50	100
				Favours experimental Favour			ours conf	roi					

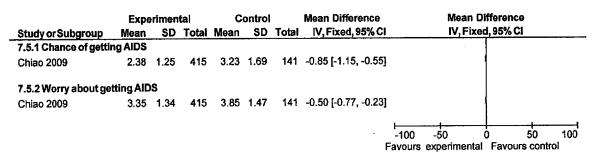
7.3 HIV testing by FSWs at 6-month

	Experim	ental	Conti	roi		Risk Ratio Risk Ratio					
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl		M-H, Fixed, 95% CI			
Chiao 2009	94	415	96	141		0.33 [0.27, 0.41]		+			
							0.01	0.1	1 10	100	
						Fa	avours	experimental	Favours con	trol	

7.4 AIDS perceived control by FSWs at 6-month

	Experime	ental	Conti	ol	Risk Ratio	Risk	Ratio
Study or Subgroup	Events	Total	Events	Total	M-H, Fixed, 95% CI	M-H, Fixe	ed, 95% CI
7.4.1 To avoid AIDS of	ontraction						
Chiao 2009	311	415	106	141	1.00 [0.89, 1.11]		†
7.4.2 To control AIDS	contractio	n					
Chiao 2009	292	415	119	141	0.83 [0.76, 0.92]	•	•
7.4.3 To lower chanc	e of getting	AIDS					
Chiao 2009	367	415	75	141	1.66 [1.42, 1.95]		+
	<u>,</u> •				Ļ		100
						0.01 0.1 ours experimental	1 10 100 Favours control

7.5 AIDS perceived severity by FSWs at 6-month



8 Manager training versus standard care for promoting HIV testing and condom use

8.1 Mean number of consistent condom use by FSWs at 6-month

	Expe	rimen	tal	Control Mean Differenc										
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% C	CI IV, Fixed, 95% CI					
Chiao 2009	1.79	1.26	198	1.7	0.97	141		0.09 [-0.15, 0.33						
									-100 -50 0 50 100 Favours experimental Favours control					

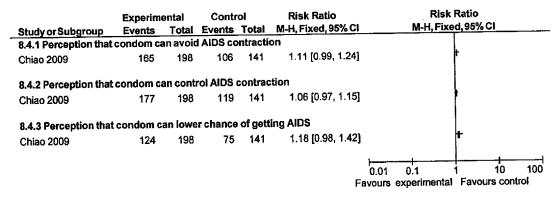
8.2 Mean score of HIV knowledge among FSWs at 6-month

	Experimental			Control				Mean Difference		•	fference		
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% C	<u>:</u>	IV, FIXed	1,95% CI_		
Chiao 2009	6.31	1.44	198	5.9	1.43	141		0.41 [0.10, 0.72	2]				
									-100 Favours	-50 experimental	0 5 Favours o	_	100

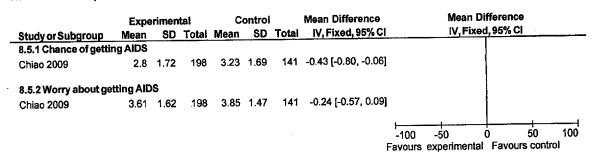
8.3 HIV testing by FSWs at 6-month

	Experim	ental	Conti	ol		Risk Ratio			Ratio	
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl		M-H, Fixe	ed, 95% CI	
Chiao 2009	191	198	96	141		1.42 [1.26, 1.59]			†	
							0.01	0.1	1 1	0 100
						F	avours	experimental	Favours	control

8.4 AIDS perceived control by FSWs at 6-month



8.5 Mean score of perceived themselves at greater risk (by FSWs at 6-month)

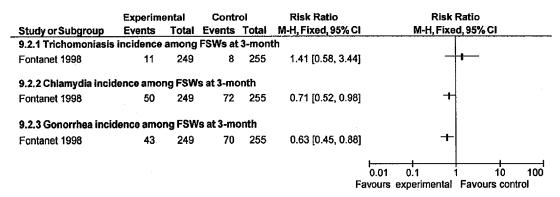


9 Promotion of female and male condom versus promotion of male condom

9.1 HIV incidence among FSWs at 3-month

	Experim	rimental Control		Risk Ratio			Risk Ratio					
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI		1	VI-H, Fixe	ed, 95% CI		
Ray 2001	0	99	3	50		0.07 [0.00, 1.38]	+			+		
						1	0.01	0.1		1 1	0	100
						· Fa	NOURS	expe	rimental	Favours	cont	rol

9.2 STIs incidence among FSWs at 3-month



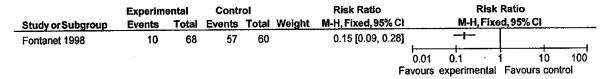
9.3 Consistent male condom use at 3-months

	Experim	ental	Conti	rol		Risk Ratio		Risk	Ratio		
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% C	<u> </u>	M-H, Fixe	d, 95% CI		
Fontanet 1998	219	249	250	255	90.1%	0.90 [0.85, 0.94]	1				
Ray 2001	25	42	22	26	9.9%	0.70 [0.52, 0.95	l				
Total (95% Ci)		291		281	100.0%	0.88 [0.83, 0.92	l	ŧ			
Total events	244		272								
Heterogeneity: Chi ² =	2.86, df = 1	(P = 0.0)	09); l² = 6	5%			0.01	0.1	· 1	0	100
Test for overall effect:	Z = 4.91 (F	° < 0.000	001)			F		experimental		-	

9.4 Consistent female condom use by FSWs at 3-month

	Experim	ental	Conti	rol		Risk Ratio		Risk	Ratio			
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI			M-H, Fixe	d, 95%	CI	
Fontanet 1998	30	249	250	255	90.8%	0.12 [0.09, 0.17]				1		
Ray 2001	3	34	22	26	9.2%	0.10 [0.03, 0.31]						
Total (95% CI)		283		281	100.0%	0.12 [0.09, 0.17]		•	•			
Total events	33		272									
Heterogeneity: Chi ² =				%			0.01	0.	.1	 	10	. 100
Test for overall effect:	Z = 12.88 (P < 0.00	0001)			Fa	avours	exp	erimental	Favou	rs con	trol

9.5 Consistent female condom use by FSWs at 24-month



9.6 Consistent male condom use at 24-month

	Experim	ental	Control			Risk Ratio			k Ratio			
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI		M-H, Fixe	d, 95% CI			
Fontanet 1998	59	68	57	60		0.91 [0.82, 1.02]						
							0.01	0.1	10	100		
						Fa	avours	experimental	Favours co	ntrol		

10 Promotion of condom plus health education versus promotion condom alone

10.1 Proportion condom use by FSWs and clients due to receive health education at 2-month

	Experim	ental	Control			Risk Ratio					
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl		M-H, Fix	ed, 95% Cl		
Egger 2000	1315	2219	1388	2247		0.96 [0.91, 1.01]			1		
							0.01	0.1	1	10	100
						Fi	avours	experimental	Favours	contro	ol

10.2 Condom provision in motels mainly used for commercial sex at 2-month

	Experimental		Control		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
10.2.1 Condoms avai	ilable in ro	oms at 2	2-month			
Egger 2000	858	1382	880	1574	1.11 [1.05, 1.18]	
10.2.2 Condoms han	ded to clie	nts at 2-	month			
Egger 2000	965	1510	880	1574	1.14 [1.08, 1.21]	!
						0.01 0.1 1 10 100
					F	avours experimental Favours control

10.3 Condom provision in motels used mainly for non-commercial sex at 2-month

	Experimental		Control		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	M-H, Fixed, 95% CI	M-H, Fixed, 95% Cl
10.3.1 Condoms avai	ilable in roc	oms at 2	-month			
Egger 2000	159	648	100	650	1.59 [1.27, 2.00]	+
10.3.2 Condoms han	ded to clies	nts at 2-	month			
Egger 2000	144	699	100	650	1.34 [1.06, 1.69]	
						0.01 0.1 1 10 100
						0.01 0.1 1 10 100 avours experimental Favours control

11 Intensive STI screening versus basic STI screening to control STI

11.1 STIs prevalence among FSWs at 6-month

	Experim	ental	Control		Risk Ratio		Risk	Ratio	
Study or Subgroup	Events	Total	Events	Total	M-H, Fixed, 95% CI		M-H, Fixe	ed, 95% CI	
11.1.1 Trachomonas	vaginalis i	nciden	e among	FSWs	at 6-month				
Ghys 2001	29	273	26	269	1.10 [0.67, 1.82]			 -	
11.1.2 Gonorrhoeae	incidence a	ımong l	SWs at 6	-mont	h			<u>.</u>	
Ghys 2001	10	273	26	269	0.38 [0.19, 0.77]				
11.1.3 Chlamydia tra	chomatis i	ncidenc	e among	FSWs	at 6-month				
Ghys 2001	3	273	13	269	0.23 [0.07, 0.79]				
						0.04		10	100
					F	0.01 avours	0.1 experimental	1 10 Favours con	

11.2 Consistent condom use by FSWs at 6-month

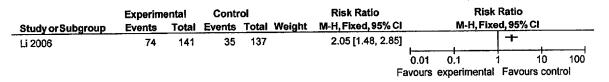
Experimental			Contr	rol	Risk Ratio			Risk Ratio				
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI		M-H, Fixe	ed, 95% CI			
Ghys 2001	225	273	213	269		1.04 [0.96, 1.13]			! .			
							0.01	0.1	1 1	0 100		
						F	avours	experimental	Favours	control		

12 VCT versus standard care of STI for increasing condom use

12.1 STIs prevalence among FSWs at 6-month

	Experimental		Contr	ol	Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
12.1.1 Syphilis preva	lence amo	ng FSW	s at 6-mo	onth		
Li 2006	8	141	15	137	0.52 [0.23, 1.18]	
12.1.2 Gonorrhoea p	revalence a	among l	FSWs at (6-monti	n	
Li 2006	12	141	14	137	0.83 [0.40, 1.74]	
12.1.3 Chlamydia pre	evalence ar	nong F	SWs at 6-	month		
Li 2006	20	141	29	137	0.67 [0.40, 1.13]	-+
12.1.4 Trichomonas	prevalence	among	j FSWs a	t 6-mon	ith	
Li 2006	8	141	15	137	0.52 [0.23, 1.18]	
12.1.5 Genital warts	prevalence	among	; FSWs a	t 6-mor	nth	
Li 2006	2	141	9	137	0.22 [0.05, 0.98]	
						0.01 0.1 1 10 100
					Fa	avours experimental Favours control

12.2 Consistent condom use by FSWs with clients at 6-month



12.3 HIV/STI knowledge among FSWs at 6-month

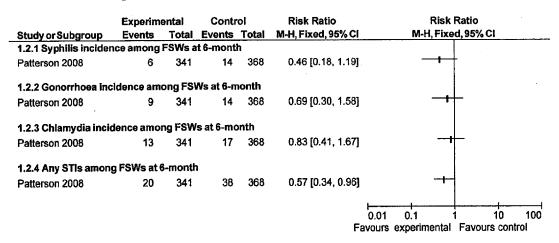
	Experim	ental			Risk Ratio			Risk Ratio						
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI		M-H, Fix	ed, 95%	CI				
Li 2006	33	141	25	137		1.28 [0.81, 2.04]		•	 -					
							0.01	0.1	1	10	100			
						Fa	avours	experimental	Favou	rs con	trol			

1 Social cognitive theory versus standard counseling for promotion of condom use

1.1 HIV incidence among FSWs at 6-month

	Experim	ental	Conti	rol	Risk Ratio			Risk Ratio					
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl		M-	H, Fixe	ed, 95% C	;		
Patterson 2008	0	341	4	368		0.12 [0.01, 2.22]	+					1	
							0.01	0.1		1	10	100	
						Fa	avours	experir	nental	Favour	s con	trol	

1.2 STIs incidence among FSWs at 6-month



1.3 Consistent condom use by FSWs at 6-month

	Favours experi	mental	Contr	ol		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Ci	M-H, Fixed, 95% CI
Patterson 2008	257	307	254	337	78.6%	1.11 [1.03, 1.20]	
Wechsberg 2006	78	80	66	80	21.4%	1.18 [1.06, 1.32]	-
Total (95% CI)		387		417	100.0%	1.13 [1.05, 1.20]	
Total events	335		320				
Heterogeneity: Chi2 =			0%				0.01 0.1 1 10 100
Test for overall effect: $Z = 3.54$ (P = 0.0004)						Fa	avours experimental Favours control