

Web annexes: Medical management of abortion: evidence summary\*

3a. Medical management of induced abortion at < 12 weeks of gestation

<sup>\*</sup> This publication forms part of the WHO guideline entitled *Medical management of abortion*. The full guideline and other web annexes are available at: https://www.who.int/reproductivehealth/publications/medical-management-abortion/en/

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## Recommendation 3a: Medical management of induced abortion at < 12 weeks of gestation

## I. Determine appropriate regimens for early medical abortion provision at $\leq$ 63 days

## Comparison 1a: Mifepristone and misoprostol in combination compared with misoprostol alone

## Summary of Findings table for Comparison 1a

Outcome	Anticipated absolu	ute effect* (95% CI)	Relative effect	No. of	Certainty of the	Comment	
	Risk with misoprostol alone	Risk with combined mifepristone and misoprostol regimens	(95% CI)	participants (studies)	evidence (GRADE) <sup>1</sup>		
Efficacy: ongoing pregnancy	139 per 1000	22 per 1000	RR 0.16	922	$\oplus \oplus \bigcirc \bigcirc$	Our confidence in the direct estimate is limited;	
		(11–43)	(0.08–0.31)	(3 RCTs) 1-3	LOW a	the true effect may be substantially different from the estimate of the effect	
Efficacy: completed without	768 per 1000	945 per 1000	RR 1.23	922	⊕○○○	We are uncertain about the effect on this	
surgical intervention		(891–998)	(1.16–1.30)	(2 RCTs) 1,2	VERY LOW b,c	outcome because the certainty of the evidence is very low	
Efficacy: expulsion time	0 per 1000	0 per 1000	Not estimable	(0 studies)	_	No direct evidence identified	
		(0–0)					
Safety: serious adverse events	0 per 1000	0 per 1000	Not estimable	(1 RCT) 1	⊕○○○	We are uncertain about the effect on this	
and complications, such as hospitalization, blood transfusion, need for further surgery beyond interventions to complete the removal of products, or death		(0–0)			VERY LOW a,b	outcome because the certainty of the evidence is very low	

¹ Grading of Recommendations Assessment, Development and Evaluation – more information: http://www.gradeworkinggroup.org
Recommendation 3a, section I. Determine appropriate regimens for early medical abortion provision at ≤ 63 days

Outcome	Anticipated absolu	ıte effect* (95% CI)	Relative effect	No. of	Certainty of the	Comment	
	Risk with misoprostol alone	Risk with combined mifepristone and misoprostol regimens	(95% CI)	participants (studies)	evidence (GRADE) <sup>1</sup>		
Side-effects: bleeding	286 per 1000	411 per 1000	RR 1.44	805	$\Theta\Theta\bigcirc\bigcirc$	Our confidence in the direct estimate is limited;	
		(337–497)	(1.18–1.74) (2 RCTs) 1,2 LOW °		the true effect may be substantially different from the estimate of the effect		
Side-effects: pain	322 per 1000	312 per 1000	RR 0.97	805	ФФОО	Our confidence in the direct estimate is limited;	
		(254–383)	(0.79–1.19)	(2 RCTs) 1,2	LOW c,d	the true effect may be substantially different from the estimate of the effect	
Side-effects: vomiting	229 per 1000	220 per 1000	RR 0.96	820	<b>@##</b>	Use of combined mifepristone and misoprostol	
		(174–277)	(0.76–1.21)	(2 RCTs) 1,2	MODERATE <sup>₫</sup>	compared with misoprostol alone probably slightly reduces emesis	
Satisfaction	747 per 1000	844 per 1000	RR 1.13	820	ФФОО	Our confidence in the direct estimate is limited;	
		(747–941)	(1.00–1.26)	(2 RCTs) 1,2	LOWd	the true effect may be substantially different from the estimate of the effect	

CI: confidence interval; RCT: randomized controlled trial; RR: risk ratio

## Grading of Recommendations Assessment, Development and Evaluation (GRADE) Working Group grades of evidence

High certainty: We are very confident that the true effect is close to the estimate of the effect.

Moderate certainty: We are moderately confident in the effect estimate; the true effect is likely to be close to the estimate of the effect, but there is a possibility that it is substantially different.

Low certainty: Our confidence in the effect estimate is limited; the true effect may be substantially different from the estimate of the effect.

Very low certainty: We have very little confidence in the effect estimate; the true effect is likely to be substantially different from the estimate of effect.

## **Explanations**

- a. Downgraded two levels for imprecision: few events and broad 95% CI.
- b. Unclear randomization and allocation strategy in the study by Dahiya et al. (3).
- c. Downgraded one level: outcome assessed differently across studies, both in terms of how and when it was measured.
- d. Downgraded one level: data self-reported and subject to recall bias.

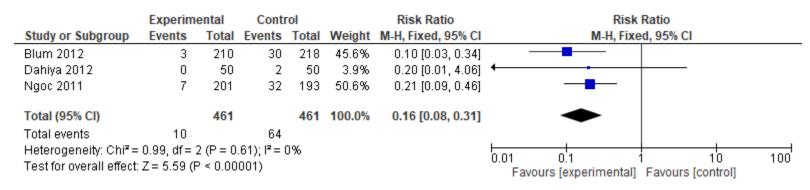
<sup>\*</sup> The risk in the intervention group (and its 95% CI) is based on the assumed risk in the comparison group and the relative effect of the intervention (and its 95% CI).

#### References

- 1. Blum J, Raghavan S, Dabash R, Ngoc Nguyen TN, Chelli H, Hajri S, et al. Comparison of misoprostol-only and combined mifepristone-misoprostol regimens for home-based early medical abortion in Tunisia and Vietnam. Int J Gynaecol Obstet. 2012;118(2):166-71.
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- 3. Dahiya K, Ahuja K, Dhingra A, Duhan N, Nanda S. Efficacy and safety of mifepristone and buccal misoprostol versus buccal misoprostol alone for medical abortion. Arch Gynecol Obstet. 2012;285(4):1055-8.

#### Forest plots for Comparison 1a

Analysis 1. Efficacy: ongoing pregnancy



## Analysis 2. Efficacy: completed without surgical intervention

	Experimental		Control		Risk Ratio		Risk R	latio	
Study or Subgroup	Events	Total	<b>Events</b>	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed	I, 95% CI	
Blum 2012	195	210	170	218	52.7%	1.19 [1.10, 1.29]			
Ngoc 2011	194	201	147	193	47.3%	1.27 [1.17, 1.38]			
Total (95% CI)		411		411	100.0%	1.23 [1.16, 1.30]		•	
Total events	389		317						
Heterogeneity: Chi²=	1.12, df =	1 (P = 0	.29);  = 1		0.01	10	100		
Test for overall effect:	Z= 6.96 (F	⊃ < 0.00	001)		0.01 0.1 1 Favours [experimental]	10 Favours [control]	100		

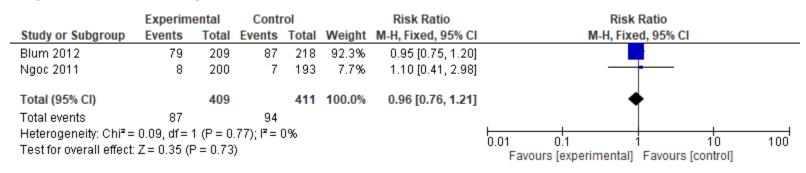
## Analysis 3. Side-effects: bleeding

	Experim	ental	Control		Control			Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	<b>Events</b>	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI		
Blum 2012	70	206	55	206	47.8%	1.27 [0.95, 1.71]	-		
Ngoc 2011	97	200	59	193	52.2%	1.59 [1.23, 2.05]	-		
Total (95% CI)		406		399	100.0%	1.44 [1.18, 1.74]	<b>◆</b>		
Total events	167		114						
Heterogeneity: Chi²=	1.22, df =	1 (P = 0.	.27); l <b>=</b> 1	0.01 0.1 1 10 100					
Test for overall effect:	Z = 3.67 (F	P = 0.00	02)			Favours [experimental] Favours [control]			

## Analysis 4. Side-effects: pain

	Experim	ental	Conti	rol		Risk Ratio	Risk	Ratio	
Study or Subgroup	Events	Total	<b>Events</b>	Total	Weight	M-H, Fixed, 95% CI	M-H, Fix	ed, 95% CI	
Blum 2012	65	204	69	208	52.8%	0.96 [0.73, 1.27]	4	•	
Ngoc 2011	61	200	60	193	47.2%	0.98 [0.73, 1.32]	-	<del>-</del>	
Total (95% CI)		404		401	100.0%	0.97 [0.79, 1.19]		•	
Total events	126		129						
Heterogeneity: Chi²=	0.01, df=	1 (P = 0	.92); l <sup>2</sup> = 1		<del>                                      </del>	1 10	100		
Test for overall effect:	Z = 0.29 (F	P = 0.77	)			0.01 0.1 Favours [experimental]	1 10 Favours [control]	100	

## Analysis 5. Side-effects: vomiting



# Analysis 6. Satisfaction

	Experimental Conf			rol		Risk Ratio	Risk	Ratio	
Study or Subgroup	Events	Total	<b>Events</b>	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixe	ed, 95% CI	
Blum 2012	188	209	166	218	53.1%	1.18 [1.08, 1.29]			
Ngoc 2011	193	200	141	193	46.9%	1.32 [1.21, 1.44]		•	
Total (95% CI)		409		411	100.0%	1.25 [1.17, 1.33]		•	
Total events	381		307						
Heterogeneity: Chi²=	3.07, df =	1 (P = 0.	$.08); I^2 = I$	0.01 0.1	1 10	100			
Test for overall effect:	Z = 6.93 (F	o.00	001)			Favours [experimental]		100	

## Comparison 1b: Mifepristone and vaginal misoprostol in combination compared with 800 µg vaginal misoprostol alone

## Summary of Findings table for Comparison 1b

Outcome	Anticipated absolu	ute effect * (95% CI)	Relative effect	No. of	Certainty of the	Comment	
	Risk with 800 µg vaginal misoprostol	Risk with combined mifepristone and vaginal misoprostol	(95% CI)	participants (studies)	evidence (GRADE)		
Efficacy: ongoing pregnancy	51 per 1000	5 per 1000	RR 0.10	344	$\oplus$	We are uncertain about the effect on this	
		(1–41)	(0.01–0.80)	(2 RCTs) 1,2	VERY LOW a,b	outcome because the certainty of the evidence is very low	
Efficacy: completed without	860 per 1000	903 per 1000	RR 1.05	100	⊕○○○	We are uncertain about the effect on this	
surgical intervention		(671–1000)	(0.78–1.41)	(1 RCT) <sup>1</sup>	VERY LOW a,c,d	outcome because the certainty of the evidence is very low	
Efficacy: expulsion time	0 per 1000	0 per 1000	Not estimable	(0 studies)	_	No direct evidence identified	
		(0–0)					
Safety: serious adverse events	0 per 1000	0 per 1000	RR 1.05	244	⊕○○○	We are uncertain about the effect on this	
and complications, such as hospitalization, blood transfusion, need for further surgery beyond interventions to complete the removal of products, or death		(0–0)	(0.02–52.49)	(1 RCT) <sup>2</sup>	VERY LOW a,b,c	outcome because the certainty of the evidence is very low	
Side-effects: bleeding	220 per 1000	24 per 1000	RR 0.11	100	$\Theta$	We are uncertain about the effect on this	
		(2–178)	(0.01–0.81)	(1 RCT) <sup>1</sup>	VERY LOW a,d,e	outcome because the certainty of the evidence is very low	
Side-effects: pain	171 per 1000	171 per 1000	RR 1.00	344	$\Theta$	We are uncertain about the effect on this	
		(106–274)	(0.62–1.60)	(2 RCTs) 1,2	VERY LOW a,d,e	outcome because the certainty of the evidence is very low	
Side-effects: vomiting	211 per 1000	326 per 1000	RR 1.54	344	⊕○○○	We are uncertain about the effect on this	
		(226–465)	(1.07–2.20)	(2 RCTs) 1,2	VERY LOW a,d,e	outcome because the certainty of the evidence is very low	

Outcome	Anticipated absolu	ute effect * (95% CI)	Relative effect	No. of	Certainty of the evidence (GRADE)	Comment
	Risk with 800 µg vaginal misoprostol	Risk with combined mifepristone and vaginal misoprostol	(95% CI)	participants (studies)		
Satisfaction	0 per 1000	<b>0 per 1000</b> (0–0)	Not estimable	(0 studies)	_	No direct evidence identified

CI: confidence interval: RCT: randomized controlled trial: RR: risk ratio

#### GRADE Working Group grades of evidence

High certainty: We are very confident that the true effect is close to the estimate of the effect.

Moderate certainty: We are moderately confident in the effect estimate; the true effect is likely to be close to the estimate of the effect, but there is a possibility that it is substantially different.

Low certainty: Our confidence in the effect estimate is limited; the true effect may be substantially different from the estimate of the effect.

Very low certainty: We have very little confidence in the effect estimate; the true effect is likely to be substantially different from the estimate of effect.

#### **Explanations**

- a. Quasi-randomized trial with inadequate description of randomization scheme and high risk for selection bias.
- b. Downgraded one level for imprecision: few events and broad 95% CI.
- c. Downgraded one level for inconsistency: only one trial included.
- d. Downgraded two levels for imprecision: few events and broad 95% CI.
- e. Outcomes measured differently and at different time points across studies.

#### References

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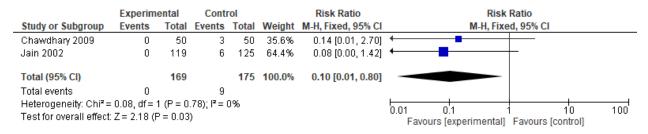
<sup>\*</sup> The risk in the intervention group (and its 95% CI) is based on the assumed risk in the comparison group and the relative effect of the intervention (and its 95% CI).

#### Forest plots for Comparison 1b

## Analysis 1. Efficacy: ongoing pregnancy

	Experimental		Experimental Control			Risk Ratio	Risk Ratio	
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI	
Chawdhary 2009	0	50	3	50	35.6%	0.14 [0.01, 2.70]	<del>-</del>	
Jain 2002	0	119	6	125	64.4%	0.08 [0.00, 1.42]	<b>—</b>	
Total (95% CI)		169		175	100.0%	0.10 [0.01, 0.80]		
Total events	0		9					
Heterogeneity: Chi²=	0.08, df = 1	1 (P = 0	.78); I²= I		0.01 0.1 1 10	100		
Test for overall effect:	Z = 2.18 (F	P = 0.03	)			Favours [experimental] Favours [control]	100	

## Analysis 2. Efficacy: completed without surgical intervention



## Analysis 3. Side-effects: pain



# Analysis 4. Side-effects: vomiting

	Experim	ental	Conti	rol		Risk Ratio	Risk Ratio	
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI	
Chawdhary 2009	23	50	10	50	27.5%	2.30 [1.22, 4.32]	-	
Jain 2002	39	119	27	125	72.5%	1.52 [1.00, 2.31]	<del>                                     </del>	
Total (95% CI)		169		175	100.0%	1.73 [1.22, 2.46]	•	
Total events	62		37					
Heterogeneity: Chi²=	1.16, df=	1 (P = 0	.28); l²= :		0.01 0.1 1 10	100		
Test for overall effect:	Z = 3.09 (F	P = 0.00	2)				Favours [experimental] Favours [control]	100

Comparison 1c: Mifepristone (200 mg oral) and misoprostol (400  $\mu$ g oral) in combination compared with 800  $\mu$ g sublingual misoprostol alone every 4 hours

## Summary of Findings table for Comparison 1c

Outcome	Anticipated absolu	ute effect * (95% CI)	Relative effect	No. of	Certainty of the	Comment
	Risk with 800 µg sublingual misoprostol every 4 h	Risk with 200 mg oral mifepristone and 400 µg oral misoprostol	(95% CI)	participants (studies)	evidence (GRADE)	
Efficacy: ongoing pregnancy	8 per 1000	8 per 1000	RR 1.00	252	$\Theta$	We are uncertain about the effect on this
		(0–125)	(0.06–15.81)	(1 RCT) <sup>1</sup>	VERY LOW a-c	outcome because the certainty of the evidence is very low
Efficacy: completed without surgical intervention	921 per 1000	930 per 1000	RR 1.01	252	⊕○○○	We are uncertain about the effect on this
		(773–1000)	(0.84–1.21)	(1 RCT) <sup>1</sup>	VERY LOW a,b,d	outcome because the certainty of the evidence is very low
Efficacy: expulsion time	0 per 1000	0 per 1000	Not estimable	(0 studies)	_	No direct evidence identified
		(0–0)				
Safety: serious adverse events	0 per 1000	0 per 1000	RR 1.00	252	$\Theta$	We are uncertain about the effect on this
and complications, such as hospitalization, blood transfusion, need for further surgery beyond interventions to complete the removal of products, or death		(0–0)	(0.02–50.01)	(1 RCT) <sup>1</sup>	VERY LOW a,b,d	outcome because the certainty of the evidence is very low
Side-effects: bleeding	63 per 1000	99 per 1000	RR 1.56	252	$\oplus$	We are uncertain about the effect on this
		(43–232)	(0.67–3.65)	(1 RCT) <sup>1</sup>	VERY LOW a,b,d	outcome because the certainty of the evidence is very low
Side-effects: pain	373 per 1000	269 per 1000	RR 0.72	252	ФФОО	Our confidence in the direct estimate is limited;
		(179–403)	(0.48–1.08)	(1 RCT) <sup>1</sup>	LOW a,b,d	the true effect may be substantially different from the estimate of the effect

Outcome	Anticipated absolu	ute effect * (95% CI)	Relative effect	No. of	Certainty of the	Comment	
	Risk with 800 µg sublingual misoprostol every 4 h	Risk with 200 mg oral mifepristone and 400 µg oral misoprostol	(95% CI)	participants (studies)	evidence (GRADE)		
Side-effects: vomiting	0 per 1000	<b>0 per 1000</b> (0–0)	Not estimable	(0 studies)	_	No direct evidence identified	
Satisfaction	921 per 1000	<b>939 per 1000</b> (783–1000)	RR 1.02 (0.85–1.22)	252 (1 RCT) <sup>1</sup>	⊕○○○ VERY LOW a,b,d	We are uncertain about the effect on this outcome because the certainty of the evidence is very low	

CI: confidence interval; RCT: randomized controlled trial; RR: risk ratio

#### GRADE Working Group grades of evidence

High certainty: We are very confident that the true effect is close to the estimate of the effect.

Moderate certainty: We are moderately confident in the effect estimate; the true effect is likely to be close to the estimate of the effect, but there is a possibility that it is substantially different.

Low certainty: Our confidence in the effect estimate is limited; the true effect may be substantially different from the estimate of the effect.

Very low certainty: We have very little confidence in the effect estimate; the true effect is likely to be substantially different from the estimate of effect

#### **Explanations**

- a. Downgraded for high risk of reporting and detection biases.
- b. Results not separated by number of doses of misoprostol received by women in the comparison arm.
- c. Downgraded two levels in imprecision: small numbers and broad 95% CI.
- d. Downgraded one level in imprecision: small numbers and broad 95% Cl.

#### Reference

1. Fekih M, Fathallah K, Ben Regaya L, Bouguizane S, Chaieb A, Bibi M, et al. Sublingual misoprostol for first trimester termination of pregnancy. Int J Gynaecol Obstet. 2010;109(1):67-70.

<sup>\*</sup> The risk in the intervention group (and its 95% CI) is based on the assumed risk in the comparison group and the relative effect of the intervention (and its 95% CI).

Comparison 2a: Doses of misoprostol in combination regimens (mifepristone plus misoprostol): 400 μg compared with 800 μg buccal misoprostol

## Summary of Findings table for Comparison 2a

Outcome	Anticipated absolu	ute effect * (95% CI)	Relative effect	No. of	Certainty of	Comment
	Risk with 200 mg mifepristone with 800 µg buccal misoprostol	Risk with 200 mg mifepristone with 400 µg buccal misoprostol	(95% CI)	participants (studies)	the evidence (GRADE)	
Efficacy: ongoing pregnancy	9 per 1000	1 per 1000	RR 0.16	1115	ФФФО	Use of 400 µg compared with 800 µg misoprostol
		(1–3)	(0.08–0.31)	(1 RCT) <sup>1</sup>	MODERATE a	buccally probably slightly reduces the risk of ongoing pregnancy
Efficacy: completed without	964 per 1000	1000 per 1000	RR 1.23	1115	<b>0000</b>	Use of 400 µg compared with 800 µg misoprostol
surgical intervention		(1000–1000)	(1.16–1.30)	(1 RCT) <sup>1</sup>	MODERATE a	buccally probably slightly reduces the risk of being completed without surgical intervention
Efficacy: expulsion time	0 per 1000	0 per 1000	Not estimable	(0 studies)	_	
		(0–0)				
Safety: serious adverse events	0 per 1000	0 per 1000	RR 1.00	1115	<b>0000</b>	Use of 800 µg compared with 400 µg misoprostol
and complications, such as hospitalization, blood transfusion, need for further surgery beyond interventions to complete the removal of products, or death		(0–0)	(0.02–50.76)	(1 RCT) <sup>1</sup>	MODERATE ª	buccally probably does not alter the risk of serious adverse events
Side-effects: bleeding	11 per 1000	15 per 1000	RR 1.44	1115	<b>@</b>	Our confidence in the direct estimate is limited;
		(13–19)	(1.18–1.74)	(1 RCT) <sup>1</sup>	LOW a,b	the true effect may be substantially different from the estimate of the effect
Side-effects: pain	809 per 1000	777 per 1000	RR 0.96	1115	<b>@</b>	Our confidence in the direct estimate is limited;
		(728–825)	(0.90–1.02)	(1 RCT) <sup>1</sup>	LOW a,b	the true effect may be substantially different from the estimate of the effect

Outcome	Anticipated absolu	ute effect * (95% CI)	Relative effect	No. of		Comment
	Risk with 200 mg mifepristone with 800 µg buccal misoprostol	Risk with 200 mg mifepristone with 400 µg buccal misoprostol	(95% CI)	participants (studies)	the evidence (GRADE)	
Side-effects: vomiting	220 per 1000	<b>158 per 1000</b> (123–202)	<b>RR 0.72</b> (0.56–0.92)	1115 (2 RCTs) <sup>2,3</sup>	⊕⊕⊖⊖ LOW a,b	Our confidence in the direct estimate is limited; the true effect may be substantially different from the estimate of the effect
Satisfaction	962 per 1000	<b>953 per 1000</b> (933–981)	<b>RR 0.99</b> (0.97–1.02)	1106 (2 RCTs) <sup>2,3</sup>	⊕○○○ VERYLOW a,b	We are uncertain about the effect on this outcome because the certainty of the evidence is very low

CI: confidence interval: RCT: randomized controlled trial: RR: risk ratio

#### GRADE Working Group grades of evidence

High certainty: We are very confident that the true effect is close to the estimate of the effect.

Moderate certainty: We are moderately confident in the effect estimate; the true effect is likely to be close to the estimate of the effect, but there is a possibility that it is substantially different.

Low certainty: Our confidence in the effect estimate is limited; the true effect may be substantially different from the estimate of the effect.

Very low certainty: We have very little confidence in the effect estimate; the true effect is likely to be substantially different from the estimate of effect.

#### **Explanations**

a. Gestational ages enrolled varied by country.

b. Downgraded one level: data self-reported and subject to recall bias.

#### References

- 1. Chong E, Tsereteli T, Nguyen NN, Winikoff B. A randomized controlled trial of different buccal misoprostol doses in mifepristone medical abortion. Contraception . 2012;86(3):251-6.
- 2. Blum J, Raghavan S, Dabash R, Ngoc Nguyen TN, Chelli H, Hajri S, et al. Comparison of misoprostol-only and combined mifepristone-misoprostol regimens for home-based early medical abortion in Tunisia and Vietnam. Int J Gynaecol Obstet. 2012;118(2):166-71.
- 3. Ngoc Nguyen TN, Blum J, Raghavan S, Nga Nguyen TB, Dabash R, Diop A, et al. Comparing two early medical abortion regimens: mifepristone + misoprostol vs. misoprostol alone. Contraception. 2011;83(5):410-7.

<sup>\*</sup> The risk in the intervention group (and its 95% CI) is based on the assumed risk in the comparison group and the relative effect of the intervention (and its 95% CI).

 $Comparison\ 2b:\ Doses\ of\ misoprostol\ in\ combination\ regimens\ (mifepristone\ plus\ misoprostol):\ 400\ \mu g\ oral\ misoprostol\ twice\ compared\ with\ once$ 

## Summary of Findings table for Comparison 2b

Outcome	Anticipated absol	ute effect * (95% CI)	Relative effect (95% CI)	No. of	Certainty of the	Comment
	Risk with 200 mg mifepristone and 400 µg oral misoprostol once	mifepristone and mifepristone and 400 µg oral 400 µg oral		participants (studies)	evidence (GRADE)	
Efficacy: ongoing pregnancy	68 per 1000	7 per 1000 (1–54)	<b>RR 0.10</b> (0.01–0.80)	297 (1 RCT) <sup>1</sup>	⊕⊕○○ LOW a,b	Our confidence in the direct estimate is limited; the true effect may be substantially different from the estimate of the effect
Efficacy: completed without surgical intervention	864 per 1000	<b>890 per 1000</b> (743–1000)	RR 1.03 (0.86–1.23)	297 (1 RCT) <sup>1</sup>	⊕⊕○○ LOW a,b	Our confidence in the direct estimate is limited; the true effect may be substantially different from the estimate of the effect
Efficacy: expulsion time	0 per 1000	<b>0 per 1000</b> (0–0)	Not estimable	(1RCT) <sup>1</sup>	_	Expulsion time for the intervention group was 179.21 min, compared with 193.91 min for the single-dose group
Safety: serious adverse events and complications, such as hospitalization, blood transfusion, need for further surgery beyond interventions to complete the removal of products, or death	0 per 1000	<b>0 per 1000</b> (0–0)	Not estimable	(0 studies)	_	No direct evidence identified
Side-effects: bleeding	553 per 1000	<b>548 per 1000</b> (426–703)	RR 0.99 (0.77–1.27)	300 (1 RCT) <sup>1</sup>	⊕⊕⊖⊖ LOW a,b	Our confidence in the direct estimate is limited; the true effect may be substantially different from the estimate of the effect
Side-effects: pain	873 per 1000	<b>882 per 1000</b> (734–1000)	<b>RR 1.01</b> (0.84–1.20)	300 (1 RCT) <sup>1</sup>	⊕⊕○○ LOW a,b	Our confidence in the direct estimate is limited; the true effect may be substantially different from the estimate of the effect

Outcome	Anticipated absolu	ute effect * (95% CI)	Relative effect	No. of	Certainty of the	Comment	
	Risk with 200 mg mifepristone and 400 µg oral misoprostol once	Risk with 200 mg mifepristone and 400 µg oral misoprostol twice	(95% CI)	participants (studies)	evidence (GRADE)		
Side-effects: vomiting	0 per 1000	0 per 1000	RR 1.00	300	$\Theta\Theta\bigcirc\bigcirc$	Our confidence in the direct estimate is limited;	
		(0–0)	(0.02–50.00)	(1 RCT) <sup>1</sup>	LOW a,b	the true effect may be substantially different from the estimate of the effect	
Satisfaction	882 per 1000	908 per 1000	RR 1.03	293	$\oplus \oplus \bigcirc \bigcirc$	Our confidence in the direct estimate is limited;	
		(767–1000)	(0.87–1.23)	(1 RCT) <sup>1</sup>	LOW a,b	the true effect may be substantially different from the estimate of the effect	

CI: confidence interval; RCT: randomized controlled trial; RR: risk ratio

#### GRADE Working Group grades of evidence

High certainty: We are very confident that the true effect is close to the estimate of the effect.

Moderate certainty: We are moderately confident in the effect estimate; the true effect is likely to be close to the estimate of the effect, but there is a possibility that it is substantially different.

Low certainty: Our confidence in the effect estimate is limited; the true effect may be substantially different from the estimate of the effect.

Very low certainty: We have very little confidence in the effect estimate; the true effect is likely to be substantially different from the estimate of effect.

#### **Explanations**

- a. Downgraded one level for inconsistency: only one trial included.
- b. Downgraded one level for imprecision: few events and broad 95% CI.

#### References

1. Coyaji K, Krishna U, Ambardekar S, Bracken H, Raote V, Mandlekar A, et al. Are two doses of misoprostol after mifepristone for early abortion better than one? BJOG. 2007;114(3):271-8.

<sup>\*</sup> The risk in the intervention group (and its 95% confidence interval) is based on the assumed risk in the comparison group and the relative effect of the intervention (and its 95% CI).

Comparison 2c: Doses of misoprostol in combination regimens (mifepristone plus misoprostol): 800  $\mu$ g oral misoprostol once compared with 400  $\mu$ g oral misoprostol twice

## Summary of Findings table for Comparison 2c

Outcome	Anticipated absolu	ute effect * (95% CI)	Relative effect	No. of	Certainty of	Comment
	Risk with mifepristone and 400 µg oral misoprostol twice	Risk with mifepristone and 800 µg oral misoprostol once	(95% CI)	participants (studies)	the evidence (GRADE)	
Efficacy: ongoing pregnancy	15 per 1000	13 per 1000	RR 0.88	637	$\oplus \oplus \oplus \bigcirc$	There is probably no difference in this outcome
		(3–47)	(0.24–3.19)	(2 RCTs) 1,2	MODERATE a	when 400 μg oral misoprostol is used twice compared with 800 μg once
Efficacy: completed without	918 per 1000	863 per 1000	RR 0.94	637	ФФФО	There is probably a slightly reduced risk of the
surgical intervention		(817–909)	(0.89–0.99)	(2 RCTs) 1,2	MODERATE a	procedure being completed without surgical intervention when 400 μg oral misoprostol is used twice compared with 800 μg once
Efficacy: expulsion time	0 per 1000	0 per 1000	Not estimable	(0 studies)	_	No direct evidence identified
		(0–0)				
Safety: serious adverse events and complications, such as hospitalization, blood transfusion, need for further surgery beyond interventions to complete the removal of products, or death	0 per 1000	<b>0 per 1000</b> (0–0)	Not estimable	(0 studies)	_	No direct evidence identified
Side-effects: bleeding	40 per 1000	27 per 1000	RR 0.67	150	ФООО	We are uncertain about the effect on this
		(4–157)	(0.11–3.93)	(1 RCT) <sup>1</sup>	VERY LOW b,c	outcome because the certainty of the evidence is very low
Side-effects: pain	387 per 1000	363 per 1000	RR 0.94	150	ФООО	We are uncertain about the effect on this
		(232–572)	(0.60–1.48)	(1 RCT) <sup>1</sup>	VERY LOW b,c	outcome because the certainty of the evidence is very low

Outcome	Anticipated absolu	ute effect* (95% CI)	Relative effect	No. of	Certainty of	Comment	
	Risk with mifepristone and 400 µg oral misoprostol twice	Risk with mifepristone and 800 µg oral misoprostol once	(95% CI)	participants (studies)	the evidence (GRADE)		
Side-effects: vomiting	307 per 1000	<b>371 per 1000</b> (233–595)	<b>RR 1.21</b> (0.76–1.94)	150 (1 RCT) <sup>1</sup>	⊕○○○ VERY LOW b,c	We are uncertain about the effect on this outcome because the certainty of the evidence is very low	
Satisfaction	0 per 1000	<b>0 per 1000</b> (0–0)	Not estimable	(0 studies)	_	No direct evidence identified	

CI: confidence interval; RCT: randomized controlled trial; RR: risk ratio

#### GRADE Working Group grades of evidence

High certainty: We are very confident that the true effect is close to the estimate of the effect.

Moderate certainty: We are moderately confident in the effect estimate; the true effect is likely to be close to the estimate of the effect, but there is a possibility that it is substantially different.

Low certainty: Our confidence in the effect estimate is limited; the true effect may be substantially different from the estimate of the effect.

Very low certainty: We have very little confidence in the effect estimate; the true effect is likely to be substantially different from the estimate of effect.

#### **Explanations**

- a. Non-blinding of participants, providers and outcome assessors.
- b. Downgraded one level for inconsistency: only one trial included.
- c. Downgraded two levels in imprecision: small numbers and broad 95% CI.

#### References

- 1. el-Refaey H, Templeton A. Early abortion induction by a combination of mifepristone and oral misoprostol: a comparison between two dose regimens of misoprostol and their effect on blood pressure. Br J Obstet Gynaecol. 1994;101(9):792-6.
- 2. Schaff EA, Fielding SL, Westhoff C. Randomized trial of oral versus vaginal misoprostol 2 days after mifepristone 200 mg for abortion up to 63 days of pregnancy. Contraception. 2002;66(4):247-50.

<sup>\*</sup> The risk in the intervention group (and its 95% CI) is based on the assumed risk in the comparison group and the relative effect of the intervention (and its 95% CI).

## Forest plots for Comparison 2c

## Analysis 1. Efficacy: ongoing pregnancy

	Experim	ental	Cont	rol	Risk Ratio		Risk Ratio
Study or Subgroup	Events	Total	<b>Events</b>	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
El-Regaey 1994	2	75	3	75	62.5%	0.67 [0.11, 3.88]	<del></del>
Schaff 2002	2	219	2	268	37.5%	1.22 [0.17, 8.62]	
Total (95% CI)		294		343	100.0%	0.88 [0.24, 3.19]	
Total events	4		5				
Heterogeneity: Chi²=	0.21, df =	1 (P = 0	.65); I²=	0%			0.01 0.1 1 10 100
Test for overall effect:	Z = 0.20 (F	P = 0.84	)				0.01 0.1 1 10 100 Favours [experimental] Favours [control]

## Analysis 2. Efficacy: completed without surgical intervention

	Experim	ental	Conti	rol		Risk Ratio	Risk Ratio		
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI		
El-Regaey 1994	71	75	69	75	23.8%	1.03 [0.94, 1.12]	•		
Schaff 2002	183	219	246	268	76.2%	0.91 [0.85, 0.98]	•		
Total (95% CI)		294		343	100.0%	0.94 [0.89, 0.99]	•		
Total events	254		315						
Heterogeneity: Chi²=	$5.18$ , df = $^{\circ}$	1 (P = 0.	$.02); I^2 = 3$	81%			0.01 0.1 1 10 100		
Test for overall effect:	Z = 2.22 (F	P = 0.03	)				Favours [experimental] Favours [control]		

Comparison 2d: Doses of misoprostol in combination regimens (mifepristone plus misoprostol): 400 µg compared with 800 µg sublingual misoprostol

## Summary of Findings table for Comparison 2d

Outcome	Anticipated absol	ute effect * (95% CI)	Relative effect	No. of	Certainty of the	Comment
	Risk with 800 µg sublingual misoprostol	Risk with 400 µg sublingual misoprostol	(95% CI)	participants (studies)	evidence (GRADE)	
Efficacy: ongoing pregnancy	5 per 1000	19 per 1000	RR 3.44	1480	$\oplus \oplus \oplus \bigcirc$	There is probably a slightly increased risk of
		(6–56)	(1.14–10.40)	(1 RCT) <sup>1</sup>	MODERATE a	ongoing pregnancy when 400 μg versus 800 μg misoprostol is used sublingually
Efficacy: completed without	939 per 1000	930 per 1000	RR 0.99	1480	$\oplus \oplus \oplus \bigcirc$	There is probably no difference in this outcome
surgical intervention		(864–1000)	(0.92–1.07)	(1 RCT) <sup>1</sup>	MODERATE a	when a dose of 400 µg versus 800 µg of misoprostol is used sublingually
Efficacy: expulsion time	0 per 1000	0 per 1000	Not estimable	(0 studies)	_	No direct evidence identified
		(0–0)				
Safety: serious adverse events and complications, such as hospitalization, blood transfusion, need for further surgery beyond interventions to complete the removal of products, or death	0 per 1000	<b>0 per 1000</b> (0-0)	Not estimable	(0 studies) b	_	No direct evidence identified
Side-effects: bleeding	0 per 1000	0 per 1000	Not estimable	(0 studies) b	_	No direct evidence identified
		(0–0)				
Side-effects: pain	987 per 1000	987 per 1000	RR 1.00	1501	$\Theta\Theta\bigcirc\bigcirc$	Our confidence in the direct estimate is limited;
		(918–1000)	(0.93–1.07)	(1 RCT) <sup>1</sup>	LOW a,c	the true effect may be substantially different from the estimate of the effect
Side-effects: vomiting	256 per 1000	358 per 1000	RR 1.40	1501	<b>0000</b>	Our confidence in the direct estimate is limited;
		(291–440)	(1.14–1.72)	(1 RCT) <sup>1</sup>	LOW a,c	the true effect may be substantially different from the estimate of the effect

Outcome	Anticipated absolu	ute effect * (95% CI)	Relative effect	No. of	Certainty of the evidence	Comment	
	Risk with 800 µg sublingual misoprostol	Risk with 400 µg sublingual misoprostol	(95% CI)	participants (studies)	evidence (GRADE)		
Satisfaction	936 per 1000	927 per 1000	RR 0.99	1475	$\oplus \oplus \bigcirc \bigcirc$	Our confidence in the direct estimate is limited;	
		(861–1000)	(0.92–1.07)	(1 RCT) 1,d	LOW a,c	the true effect may be substantially different from the estimate of the effect	

CI: confidence interval; RCT: randomized controlled trial; RR: risk ratio

#### **GRADE** Working Group grades of evidence

High certainty: We are very confident that the true effect is close to the estimate of the effect.

Moderate certainty: We are moderately confident in the effect estimate; the true effect is likely to be close to the estimate of the effect, but there is a possibility that it is substantially different.

Low certainty: Our confidence in the effect estimate is limited; the true effect may be substantially different from the estimate of the effect.

Very low certainty: We have very little confidence in the effect estimate; the true effect is likely to be substantially different from the estimate of effect.

#### **Explanations**

- a. Downgraded one level: results from only one trial.
- b. Data not disaggregated by this comparison.
- c. Subject to recall and/or courtesy bias.
- d. Answered "highly satisfied".

#### References

1. von Hertzen H, Huong NT, Piaggio G, Bayalag M, Cabezas E, Fang AH, et al. Misoprostol dose and route after mifepristone for early medical abortion: a randomised controlled noninferiority trial. BJOG. 2010;117(10):1186-96.

<sup>\*</sup> The risk in the intervention group (and its 95% CI) is based on the assumed risk in the comparison group and the relative effect of the intervention (and its 95% CI).

Comparison 2e: Doses of misoprostol in combination regimens (mifepristone plus misoprostol): 400 μg compared with 800 μg vaginal misoprostol

## Summary of Findings table for Comparison 2e

Outcome	Anticipated absolu	ute effect * (95% CI)	Relative effect	No. of	Certainty of the	Comment
	Risk with 800 μg vaginal misoprostol	Risk with 400 µg vaginal misoprostol	(95% CI)	participants (studies)	evidence (GRADE)	
Efficacy: ongoing pregnancy	11 per 1000	24 per 1000	RR 2.23	1482	$\oplus \oplus \oplus \bigcirc$	There is probably no difference in this outcome
		(11–55)	(0.98–5.11)	(1 RCT) <sup>1</sup>	MODERATE a	when a dose of 400 μg versus 800 μg misoprostol is used vaginally
Efficacy: completed without	945 per 1000	917 per 1000	RR 0.97	1482	$\oplus \oplus \oplus \bigcirc$	There is probably no difference in this outcome
surgical intervention		(850–992)	(0.90–1.05)	(1 RCT) <sup>1</sup>	MODERATE a	when a dose of 400 μg versus 800 μg misoprostol is used vaginally
Efficacy: expulsion time	0 per 1000	0 per 1000	Not estimable	(0 studies)	_	No direct evidence identified
		(0–0)				
Safety: serious adverse events and complications, such as	0 per 1000	0 per 1000	Not estimable	(0 studies) b	_	No direct evidence identified
hospitalization, blood transfusion, need for further surgery beyond interventions to complete the removal of products, or death		(0–0)				
Side-effects: bleeding	0 per 1000	0 per 1000	Not estimable	(0 studies) b	_	No direct evidence identified
		(0–0)				
Side-effects: pain	981 per 1000	972 per 1000	RR 0.99	1499	<b>@</b>	Our confidence in the direct estimate is limited;
		(903–1000)	(0.92–1.07)	(1 RCT) <sup>1</sup>	LOW a,c	the true effect may be substantially different from the estimate of the effect
Side-effects: vomiting	169 per 1000	142 per 1000	RR 0.84	1499	ФФОО	Our confidence in the direct estimate is limited;
		(112–183)	(0.66–1.08)	(1 RCT) <sup>1</sup>	LOW a,c	the true effect may be substantially different from the estimate of the effect

Outcome	Anticipated absolu	ute effect * (95% CI)	Relative effect	No. of participants	Certainty of the	Comment	
	Risk with 800 µg vaginal misoprostol	Risk with 400 μg vaginal misoprostol	(95% CI)	participants (studies)	evidence (GRADE)		
Satisfaction	946 per 1000	937 per 1000	RR 0.99	1479	$\oplus \oplus \bigcirc \bigcirc$	Our confidence in the direct estimate is limited;	
		(870–1000)	(0.92–1.07)	(1 RCT) 1,d	LOW a,c	the true effect may be substantially different from the estimate of the effect	

CI: confidence interval: RCT: randomized controlled trial: RR: risk ratio

#### **GRADE** Working Group grades of evidence

High certainty: We are very confident that the true effect is close to the estimate of the effect.

Moderate certainty: We are moderately confident in the effect estimate; the true effect is likely to be close to the estimate of the effect, but there is a possibility that it is substantially different.

Low certainty:

Our confidence in the effect estimate is limited; the true effect may be substantially different from the estimate of the effect.

Very low certainty:

We have very little confidence in the effect estimate; the true effect is likely to be substantially different from the estimate of effect.

#### **Explanations**

- a. Downgraded one level: results from only one trial.
- b. Data not disaggregated by this comparison.
- c. Subject to recall and/or courtesy bias.
- d. Answered "highly satisfied".

#### References

1. von Hertzen H, Huong NT, Piaggio G, Bayalag M, Cabezas E, Fang AH, et al. Misoprostol dose and route after mifepristone for early medical abortion: a randomised controlled noninferiority trial. BJOG. 2010;117(10):1186-96.

<sup>\*</sup> The risk in the intervention group (and its 95% CI) is based on the assumed risk in the comparison group and the relative effect of the intervention (and its 95% CI).

Comparison 2f: Doses of misoprostol in combination regimens (mifepristone plus misoprostol): 400 µg compared with 600 µg oral misoprostol

## Summary of Findings table for Comparison 2f

Outcome	Anticipated absolu	ute effect * (95% CI)		No. of	Certainty of the	Comment
	Risk with 600 µg oral misoprostol	Risk with 400 μg oral misoprostol	(95% CI)	participants (studies)	evidence (GRADE)	
Efficacy: ongoing pregnancy	3 per 1000	1 per 1000	RR 0.33	638	$\oplus \oplus \bigcirc \bigcirc$	Our confidence in the direct estimate is limited;
		(0–25)	(0.01–8.10)	(1 RCT) 1	LOW a,b	the true effect may be substantially different from the estimate of the effect
Efficacy: completed without	928 per 1000	937 per 1000	RR 1.01	638	<b>0000</b>	Our confidence in the direct estimate is limited;
surgical intervention		(844–1000)	(0.91–1.13)	(1 RCT) <sup>1</sup>	LOW a,b	the true effect may be substantially different from the estimate of the effect
Efficacy: expulsion time	0 per 1000 <b>0 per 1000</b>		Not estimable	(0 studies)	_	No direct evidence identified
		(0–0)				
Safety: serious adverse events	3 per 1000	1 per 1000	RR 0.33	638	ФФОО	Our confidence in the direct estimate is limited;
and complications, such as hospitalization, blood transfusion, need for further surgery beyond interventions to complete the removal of products, or death		(0–25)	(0.01–8.10)	(1 RCT) <sup>1,c</sup>	LOW a,b	the true effect may be substantially different from the estimate of the effect
Side-effects: bleeding	0 per 1000	0 per 1000	Not estimable	(0 studies)	_	No direct evidence identified
		(0–0)				
Side-effects: pain	0 per 1000	0 per 1000	Not estimable	(0 studies)	_	No direct evidence identified
		(0–0)				
Side-effects: vomiting	236 per 1000	200 per 1000	RR 0.85	637	<b>000</b>	Our confidence in the direct estimate is limited;
		(146–271)	(0.62–1.15)	(1 RCT) <sup>1</sup>	LOW a,b	the true effect may be substantially different from the estimate of the effect

Outcome	Anticipated absolu	ute effect * (95% CI)	Relative effect	No. of participants	Certainty of the	Comment	
	Risk with 600 μg oral misoprostol	Risk with 400 μg oral misoprostol	(95% CI)	(studies)	evidence (GRADE)		
Satisfaction	881 per 1000	899 per 1000	RR 1.02	599	$\oplus \oplus \bigcirc \bigcirc$	Our confidence in the direct estimate is limited;	
		(802–1000)	(0.91–1.16)	(1 RCT) <sup>1</sup>	LOW b,d	the true effect may be substantially different from the estimate of the effect	

CI: confidence interval: RCT: randomized controlled trial: RR: risk ratio

#### GRADE Working Group grades of evidence

High certainty: We are very confident that the true effect is close to the estimate of the effect.

Moderate certainty: We are moderately confident in the effect estimate; the true effect is likely to be close to the estimate of the effect, but there is a possibility that it is substantially different.

Low certainty:

Our confidence in the effect estimate is limited; the true effect may be substantially different from the estimate of the effect.

Very low certainty:

We have very little confidence in the effect estimate; the true effect is likely to be substantially different from the estimate of effect.

#### **Explanations**

- a. Both studies unblinded (providers, participants and outcome assessors). Risk of selection bias with unclear allocation concealment.
- b. Downgraded one level for inconsistency as only one trial included.
- c. Blood transfusion.
- d. Subject to recall and courtesy bias.

#### Reference

1. Shannon C, Wiebe E, Jacot F, Guilbert E, Dunn S, Sheldon WR, et al. Regimens of misoprostol with mifepristone for early medical abortion: a randomised trial. BJOG. 2006;113(6):621-8.

<sup>\*</sup> The risk in the intervention group (and its 95% CI) is based on the assumed risk in the comparison group and the relative effect of the intervention (and its 95% CI).

#### Comparison 2g: Doses of misoprostol in combination regimens (mifepristone plus misoprostol): excluded studies

The systematic review of the literature identified three studies that could not be included into the Summary of Findings table for this comparison. The first, by Creinin et al. (1) was excluded for using a non-standard dose of mifepristone. A second study, by Chen et al. (2), was excluded for not reporting on the primary outcome. And a third study, by Tsai et al. (3), was excluded because it did not state how the misoprostol was administered.

#### References

- 1. Creinin MD, Schwartz JL, Pymar HC, Fink W. Efficacy of mifepristone followed on the same day by misoprostol for early termination of pregnancy: report of a randomised trial. BJOG. 2001;108(5):469-73.
- 2. Chen QJ, Zhang J, Huang ZR, Fan XF, Wang HY, Zhu H, et al. Mifepristone in combination with misoprostol for the termination of pregnancy at 8–16 weeks' gestational age: a multicentre randomized controlled trial. J Reprod Contracept. 2013;24(2):101-13.
- 3. Tsai EM, Yang CH, Lee JN. Medical abortion with mifepristone and misoprostol: a clinical trial in Taiwanese women. J Formos Med Assoc. 2002;101(4):277-82.

# Comparison 3a: Dosing intervals in combination regimens (mifepristone plus misoprostol): $800 \,\mu g$ vaginal misoprostol < 8 hours compared with > $24 \,hours$ after mifepristone

## Summary of Findings table for Comparison 3a

Outcome	Anticipated absol	ute effect * (95% CI)	Relative effect	No. of	Certainty of the	Comment
	Risk with 800 µg vaginal misoprostol given > 24 h after 200 mg mifepristone	Risk with 800 µg vaginal misoprostol given < 8 h after 200 mg mifepristone	(95% CI)	participants (studies)	evidence (GRADE)	
Efficacy: ongoing pregnancy	5 per 1000	12 per 1000	RR 2.23	1525	$\oplus \oplus \oplus \bigcirc$	800 μg misoprostol vaginally administered within
		(4–38)	(0.69–7.20)	(2 RCTs) 1,2	MODERATE a	8 h compared with after 24 h probably does not affect this outcome
Efficacy: completed without	967 per 1000	948 per 1000	RR 0.98	1525	$\oplus \oplus \oplus \bigcirc$	800 μg misoprostol vaginally administered within
surgical intervention		(880–1000)	(0.91–1.06)	(2 RCTs) 1,2	MODERATE a	8 h compared with after 24 h probably does not affect this outcome
Efficacy: expulsion time	0 per 1000	0 per 1000	Not estimable	(0 studies)	_	No direct evidence identified
		(0–0)				
Safety: serious adverse events	0 per 1000	0 per 1000	RR 0.99	1100	$\oplus \oplus \oplus \bigcirc$	800 µg misoprostol vaginally administered within
and complications, such as hospitalization, blood transfusion, need for further surgery beyond interventions to complete the removal of products, or death		(0–0)	(0.02–49.60)	(1 RCT) <sup>1</sup>	MODERATE b	8 h compared with after 24 h probably does not affect this outcome
Side-effects: bleeding	0 per 1000	0 per 1000	Not estimable	(0 studies) c	_	No direct evidence identified
		(0–0)				
Side-effects: pain	0 per 1000	0 per 1000	Not estimable	(0 studies) °	_	No direct evidence identified
		(0–0)				

Outcome	Anticipated absol	ute effect * (95% CI)	Relative effect	No. of	Certainty of the	Comment	
	Risk with 800 µg vaginal misoprostol given > 24 h after 200 mg mifepristone	Risk with 800 µg vaginal misoprostol given < 8 h after 200 mg mifepristone	(95% CI)	participants (studies)	evidence (GRADE)		
Side-effects: vomiting	272 per 1000	283 per 1000	RR 1.04	1446	$\oplus \oplus \oplus \bigcirc$	800 µg misoprostol vaginally administered within	
		(236–337)	(0.87–1.24)	(2 RCTs) 1,2	MODERATE d	8 h compared with after 24 h probably does not affect this outcome	
Satisfaction	977 per 1000	996 per 1000	RR 1.02	357	$\Theta\Theta\bigcirc\bigcirc$	Our confidence in the direct estimate is limited;	
		(850–1000)	(0.87–1.18)	(1 RCT) <sup>2</sup>	LOW b,d	the true effect may be substantially different from the estimate of the effect	

CI: confidence interval; RCT: randomized controlled trial; RR: risk ratio

#### GRADE Working Group grades of evidence

High certainty: We are very confident that the true effect is close to the estimate of the effect.

Moderate certainty: We are moderately confident in the effect estimate; the true effect is likely to be close to the estimate of the effect, but there is a possibility that it is substantially different.

Low certainty: Our confidence in the effect estimate is limited; the true effect may be substantially different from the estimate of the effect.

Very low certainty: We have very little confidence in the effect estimate; the true effect is likely to be substantially different from the estimate of effect.

#### **Explanations**

- a. Downgraded one level: outcome assessed differently across studies, in terms of both how and when it was measured.
- b. Downgraded one level for inconsistency: only one trial included.
- c. Creinin et al. (1) reported no significant difference in the experience of bleeding or pain between groups. A score on a visual analogue scale (VAS) was used, which could not be entered into GRADE.
- d. Downgraded one level: data self-reported and subject to recall bias.

#### References

- 1. Creinin MD, Schreiber CA, Bednarek P, Lintu H, Wagner MS, Meyn LA. Mifepristone and misoprostol administered simultaneously versus 24 hours apart for abortion: a randomized controlled trial. Obstet Gynecol. 2007;109(4):885-94.
- 2. Guest J, Chien PF, Thomson MA, Kosseim ML. Randomised controlled trial comparing the efficacy of same-day administration of mifepristone and misoprostol for termination of pregnancy with the standard 36 to 48 hour protocol. BJOG. 2007;114(2):207-15.

<sup>\*</sup> The risk in the intervention group (and its 95% CI) is based on the assumed risk in the comparison group and the relative effect of the intervention (and its 95% CI).

## Forest plots for Comparison 3a

Analysis 1. Efficacy: ongoing pregnancy

	Experim	ental	Conti	rol	Risk Ratio		Risk Ratio
Study or Subgroup	Events	Total	<b>Events</b>	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Creinin 2007	4	554	1	546	25.4%	3.94 [0.44, 35.16]	
Guest 2007	5	210	3	215	74.6%	1.71 [0.41, 7.05]	<del>-   •</del>
Total (95% CI)		764		761	100.0%	2.27 [0.70, 7.35]	
Total events	9		4				
Heterogeneity: Chi²=	0.40, df =	1 (P = 0	.53); I² = I		0.01 0.1 1 10 100		
Test for overall effect:	Z = 1.37 (F	P = 0.17	)			0.01 0.1 1 10 100 Favours [experimental] Favours [control]	

## Analysis 2. Efficacy: completed without surgical intervention

	Experim	ental	Conti	rol		Risk Ratio	Risk Ratio		
Study or Subgroup	Events	Total	<b>Events</b>	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI		
Creinin 2007	527	554	529	549	72.2%	0.99 [0.96, 1.01]			
Guest 2007	187	210	207	215	27.8%	0.92 [0.88, 0.98]	•		
Total (95% CI)		764		764	100.0%	0.97 [0.95, 0.99]			
Total events	714		736						
Heterogeneity: Chi²=	4.89, df=	1 (P = 0	.03); l² = 3		0.01 0.1 1	10	100		
Test for overall effect: Z = 2.56 (P = 0.01)							Favours [experimental] Favours [		100

# Analysis 3. Side-effects: vomiting

	Experim	ental	Conti	rol	Risk Ratio		Risk	Ratio	
Study or Subgroup	Events	Total	<b>Events</b>	Total	Weight	M-H, Fixed, 95% CI	M-H, Fix	ed, 95% CI	
Creinin 2007	171	550	169	171	100.0%	0.31 [0.28, 0.36]			
Guest 2007	36	188	28	0		Not estimable	_		
Total (95% CI)		738		171	100.0%	0.31 [0.28, 0.36]	•		
Total events	207		197						
Heterogeneity: Not ap	pplicable						0.01 0.1	1 10	100
Test for overall effect:	Z = 18.06	(P < 0.0	0001)				Favours [experimental]		100

Comparison 3b: Dosing intervals in combination regimens (mifepristone plus misoprostol):  $400-800 \,\mu g$  vaginal misoprostol given 24 hours compared with 48 hours after mifepristone

## Summary of Findings table for Comparison 3b

Outcome	Anticipated absolu	ute effect * (95% CI)	Relative effect	No. of	Certainty of the	Comment
	Risk with 400–800 µg vaginal misoprostol given 48 h after mifepristone	Risk with 400–800 µg vaginal misoprostol given 24 h after mifepristone	(95% CI)	participants (studies)	evidence (GRADE)	
Efficacy: ongoing pregnancy	8 per 1000	7 per 1000	RR 0.92	3301	$\Theta$	We are uncertain about the effect on this
		(3–16)	(0.40–2.12)	(3 RCTs) 1-3	VERY LOW a,b	outcome because the certainty of the evidence is very low
Efficacy: completed without	940 per 1000	931 per 1000	RR 0.99	192	$\Theta$	We are uncertain about the effect on this
surgical intervention		(752–1000)	(0.80–1.23)	(3 RCTs) 1-3	VERY LOW a,b	outcome because the certainty of the evidence is very low
Efficacy: expulsion time	0 per 1000	0 per 1000	Not estimable	(0 studies)	_	No direct evidence identified
		(0–0)				
Safety: serious adverse events and complications, such as hospitalization, blood transfusion, need for further surgery beyond interventions to complete the removal of products, or death	0 per 1000	<b>0 per 1000</b> (0–0)	Not estimable	(0 studies)	_	No direct evidence identified
Side-effects: bleeding	23 per 1000	22 per 1000	RR 0.98	178	⊕○○○	We are uncertain about the effect on this
		(3–154)	(0.14–6.79)	(1 RCT) <sup>1,c</sup>	VERY LOW a,b	outcome because the certainty of the evidence is very low
Side-effects: pain	0 per 1000	0 per 1000	Not estimable	(0 studies)	_	No direct evidence identified
		(0–0)				

Outcome	Anticipated absolu	ite effect * (95% CI)	Relative effect (95% CI)	No. of	Certainty of the	Comment
	Risk with 400–800 µg vaginal misoprostol given 48 h after mifepristone	Risk with 400–800 µg vaginal misoprostol given 24 h after mifepristone		participants (studies)	evidence (GRADE)	
Side-effects: vomiting	211 per 1000	<b>195 per 1000</b> (169–220)	<b>RR 0.92</b> (0.80–1.04)	344 (3 RCTs) <sup>1-3</sup>	⊕○○○ VERY LOW a,b	We are uncertain about the effect on this outcome because the certainty of the evidence is very low
Satisfaction	0 per 1000	<b>0 per 1000</b> (0–0)	Not estimable	(0 studies)	_	No direct evidence identified

CI: confidence interval; RCT: randomized controlled trial; RR: risk ratio

### GRADE Working Group grades of evidence

High certainty: We are very confident that the true effect is close to the estimate of the effect.

Moderate certainty: We are moderately confident in the effect estimate; the true effect is likely to be close to the estimate of the effect, but there is a possibility that it is substantially different.

Low certainty: Our confidence in the effect estimate is limited; the true effect may be substantially different from the estimate of the effect.

Very low certainty: We have very little confidence in the effect estimate; the true effect is likely to be substantially different from the estimate of effect.

### **Explanations**

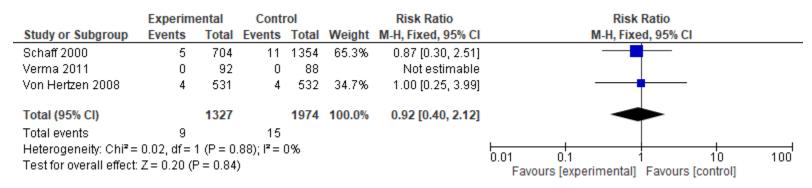
- a. Allocation concealment not specified. Study unblinded to outcome assessors.
- b. Misoprostol dose ranged from 400–800 μg.
- c. Defined in the study (1) as bleeding that warranted a surgical intervention.

- 1. Verma ML, Singh U, Singh N, Shankhwar P, Srivastava D. Efficacy of misoprostol administration 24 hours after mifepristone for termination of early pregnancy. Indian J Med Sci. 2011;65(12):511-7.
- 2. Schaff EA, Fielding SL, Westhoff C, Ellertson C, Eisinger SH, Stadalius LS, et al. Vaginal misoprostol administered 1, 2, or 3 days after mifepristone for early medical abortion: a randomized trial. JAMA. 2000;284(15):1948-53.
- 3. von Hertzen H, Piaggio G, Wojdyla D, Marions L, My Huong N, Tang O, et al. Two mifepristone doses and two intervals of misoprostol administration for termination of early pregnancy: a randomised factorial controlled equivalence trial. BJOG. 2009;116:381-9.

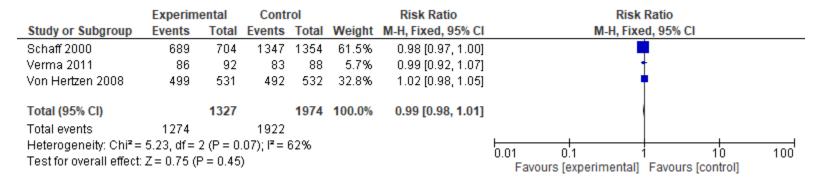
<sup>\*</sup> The risk in the intervention group (and its 95% CI) is based on the assumed risk in the comparison group and the relative effect of the intervention (and its 95% CI).

### Forest plots for Comparison 3b

Analysis 1. Efficacy: ongoing pregnancy



Analysis 2. Efficacy: completed without surgical intervention



Analysis 3. Side-effects: vomiting

	Experim	ental	Conti	rol		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	<b>Events</b>	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Schaff 2000	218	704	442	1354	89.1%	0.95 [0.83, 1.08]	
Verma 2011	9	100	19	100	5.6%	0.47 [0.23, 1.00]	-
Von Hertzen 2008	15	526	18	521	5.3%	0.83 [0.42, 1.62]	<del></del>
Total (95% CI)		1330		1975	100.0%	0.92 [0.80, 1.04]	•
Total events	242		479				
Heterogeneity: Chi²=	3.38, df=	2 (P = 0.	18); l² = -	41%			0.01 0.1 1 10 100
Test for overall effect:	Z = 1.33 (F	P = 0.18	)				Favours [experimental] Favours [control]

Comparison 3c: Dosing intervals in combination regimens (mifepristone plus misoprostol):  $400 \, \mu g$  vaginal misoprostol given concurrently compared with 24 hours after  $200 \, mg$  mifepristone

# Summary of Findings table for Comparison 3c

Outcome	Anticipated absolu	ute effect * (95% CI)	Relative effect	No. of	Certainty of the	Comment	
	Risk with 400 µg vaginal misoprostol given 24 h after 200 mg mifepristone	Risk with 400 µg vaginal misoprostol given concurrently with 200 mg mifepristone	(95% CI)	participants (studies)	evidence (GRADE)		
Efficacy: ongoing pregnancy	0 per 1000	0 per 1000	RR 0.98	258	$\oplus$	We are uncertain about the effect on this	
		(0–0)	(0.02–49.25)	(2 RCTs) 1,2	VERY LOW a-c	outcome because the certainty of the evidence is very low	
Efficacy: completed without	957 per 1000	967 per 1000	RR 1.01	280	$\Theta$	We are uncertain about the effect on this	
surgical intervention		(804–1000)	(0.84–1.21)	(2 RCTs) 1,2	VERY LOW a,c,d	outcome because the certainty of the evidence is very low	
Efficacy: expulsion time	0 per 1000	0 per 1000	Not estimable	(0 studies) e	_	No direct evidence identified	
		(0–0)					
Safety: serious adverse events	0 per 1000	0 per 1000	RR 1.00	178	$\Theta$	We are uncertain about the effect on this	
and complications, such as hospitalization, blood transfusion, need for further surgery beyond interventions to complete the removal of products, or death		(0–0)	(0.02–50.01)	(2 RCTs) 1,2	VERY LOW a,c,d	outcome because the certainty of the evidence is very low	
Side-effects: bleeding	23 per 1000	22 per 1000	RR 0.98	178	$\Theta$	We are uncertain about the effect on this	
		(3–154)	(0.14–6.79)	(1 RCT) 1,f	VERY LOW a,c,g	outcome because the certainty of the evidence is very low	
Side-effects: pain	50 per 1000	74 per 1000	RR 1.47	80	ФООО	We are uncertain about the effect on this	
		(13–417)	(0.25–8.33)	(1 RCT) <sup>2,h</sup>	VERY LOW a,c,g	outcome because the certainty of the evidence is very low	

Outcome	Anticipated absol	ute effect * (95% CI)		No. of participants	Certainty of the evidence	Comment
	Risk with 400 µg vaginal misoprostol given 24 h after 200 mg mifepristone	Risk with 400 µg vaginal misoprostol given concurrently with 200 mg mifepristone		(studies)	(GRADE)	
Side-effects: vomiting	141 per 1000	110 per 1000	RR 0.78	258	$\oplus$	We are uncertain about the effect on this
		(58–214)	(0.41–1.52)	(2 RCTs) 1,2	VERY LOW a,c	outcome because the certainty of the evidence is very low
Satisfaction	950 per 1000	969 per 1000	RR 1.02	80	$\Theta$	We are uncertain about the effect on this
		(703–1000)	(0.74–1.39)	(1 RCT) <sup>2</sup>	VERY LOW a,c,d	outcome because the certainty of the evidence is very low

CI: confidence interval; RCT: randomized controlled trial; RR: risk ratio

High certainty: We are very confident that the true effect is close to the estimate of the effect.

Moderate certainty: We are moderately confident in the effect estimate; the true effect is likely to be close to the estimate of the effect, but there is a possibility that it is substantially different.

Low certainty: Our confidence in the effect estimate is limited; the true effect may be substantially different from the estimate of the effect.

Very low certainty: We have very little confidence in the effect estimate; the true effect is likely to be substantially different from the estimate of effect.

### **Explanations**

- a. Downgraded for high risk of reporting and detection biases (Goel et al. [2]). Reporting bias: outcome of time to expulsion not reported although it was stated as an outcome. High risk for selection bias with unclear randomization and allocation (Verma et al. [1]).
- b. Misoprostol administered at 24 or 48 hours in the comparison arm.
- c. Downgraded one level in imprecision: small numbers and broad 95% CI.
- d. Results not separated by number of doses of misoprostol received by women in the comparison arm.
- e. Goel et al. (2) reported an expulsion time of 6.5 + 1.48 hours in the intervention arm, compared with 5.95 + 1.81 hours in the comparison arm.
- f. Defined in the study (1) as heavy enough to warranta surgical intervention.
- g. Downgraded one level: results from only one trial.
- h. Defined in the study (2) as "intolerable abdominal pain".

- 1. Verma ML, Singh U, Singh N, Sankhwar PL, Qureshi S. Efficacy of concurrent administration of mifepristone and misoprostol for termination of pregnancy. Hum Fertil. 2017;20(1):43-7.
- 2. Goel A, Mittal S, Taneja BK, Singal N, Attri S. Simultaneous administration of mifepristone and misoprostol for early termination of pregnancy: a randomized controlled trial. Arch Gynecol Obstet. 2011;283(6):1409-13.

<sup>\*</sup> The risk in the intervention group (and its 95% CI) is based on the assumed risk in the comparison group and the relative effect of the intervention (and its 95% CI).

# Forest plots for Comparison 3c

Analysis 1. Efficacy: completed without surgical intervention

	Experim	ental	Conti	rol		Risk Ratio	Risk Ratio		
Study or Subgroup	Events	Total	<b>Events</b>	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI		
Goel 2011	38	40	39	40	29.1%	0.97 [0.89, 1.06]	•		
Verma 2017	96	100	95	100	70.9%	1.01 [0.95, 1.07]	<b>"</b>		
Total (95% CI)		140		140	100.0%	1.00 [0.95, 1.05]			
Total events	134		134						
Heterogeneity: Chi <sup>2</sup> =	$0.46$ , df = $^{\circ}$	1 (P = 0	$.50$ ); $I^2 = I$	0%				100	
Test for overall effect:	Z = 0.00 (F	P = 1.00	)				0.01 0.1 1 10 1 Favours [experimental] Favours [control]	UU	

## Analysis 2. Side-effects: vomiting

	Experim	ental	Conti	ol		Risk Ratio	Risk Ratio	
Study or Subgroup	Events	Total	<b>Events</b>	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI	
Goel 2011	4	40	6	40	33.1%	0.67 [0.20, 2.18]		
Verma 2017	10	90	12	88	66.9%	0.81 [0.37, 1.79]	<del></del>	
Total (95% CI)		130		128	100.0%	0.77 [0.40, 1.47]	•	
Total events	14		18					
Heterogeneity: Chi²=	0.08, df =	1 (P = 0	.78); $I^2 = I$	0%			0.01 0.1 1 10 10	Ä
Test for overall effect:	Z = 0.80 (F	P = 0.42	)				Favours [experimental] Favours [control]	U

Comparison 3d: Dosing intervals in combination regimens (mifepristone plus misoprostol):  $400 \,\mu g$  oral misoprostol given < 8 hours after  $600 \,m g$  mifepristone compared with  $400 \,\mu g$  oral misoprostol given 48 hours after  $200 \,m g$  mifepristone

# Summary of Findings table for Comparison 3d

Outcome	Anticipated ab	solute effect * (95% CI)	Relative effect	No. of	Certainty of the	Comment
	Risk with 400 µg oral misoprostol given 48 h after 200 mg mifepristone	Risk with 400 µg oral misoprostol given < 8 h after 600 mg mifepristone	(95% CI)	participants (studies)	evidence (GRADE)	
Efficacy: ongoing pregnancy	0 per 1000	0 per 1000	RR 8.34	100	$\oplus$	We are uncertain about the effect on this
		(0–0)	(0.46–151.20)	(1 RCT) <sup>1</sup>	VERY LOW a,b	outcome because the certainty of the evidence is very low
Efficacy: completed without	900 per 1000	819 per 1000	RR 0.91	100	$\Theta$	We are uncertain about the effect on this
surgical intervention		(594–1000)	(0.66–1.25)	(1 RCT) <sup>1</sup>	VERY LOW a,b	outcome because the certainty of the evidence is very low
Efficacy: expulsion time	0 per 1000	0 per 1000	Not estimable	(0 studies)	_	No direct evidence identified
		(0–0)				
Safety: serious adverse events	20 per 1000	39 per 1000	RR 1.96	100	$\Theta$	We are uncertain about the effect on this
and complications, such as hospitalization, blood transfusion, need for further surgery beyond interventions to complete the removal of products, or death		(4–418)	(0.18–20.90)	(1 RCT) <sup>1,c</sup>	VERY LOW a,b	outcome because the certainty of the evidence is very low
Side-effects: bleeding	0 per 1000	0 per 1000	Not estimable	(0 studies) d	_	No direct evidence identified
		(0–0)				
Side-effects: pain	0 per 1000	0 per 1000	Not estimable	(0 studies)	_	No direct evidence identified
		(0–0)				

Outcome	Anticipated ab	solute effect* (95% CI)	Relative effect (95% CI)	No. of participants (studies)	Certainty of the evidence (GRADE)	Comment
	Risk with 400 µg oral misoprostol given 48 h after 200 mg mifepristone	Risk with 400 µg oral misoprostol given < 8 h after 600 mg mifepristone				
Side-effects: vomiting	0 per 1000	0 per 1000	Not estimable	(0 studies)	_	No direct evidence identified
		(0–0)				
Satisfaction	0 per 1000	0 per 1000	Not estimable	(0 studies)	_	No direct evidence identified
		(0–0)				

CI: confidence interval; RCT: randomized controlled trial; RR: risk ratio

High certainty: We are very confident that the true effect is close to the estimate of the effect.

Moderate certainty: We are moderately confident in the effect estimate; the true effect is likely to be close to the estimate of the effect, but there is a possibility that it is substantially different.

Low certainty: Our confidence in the effect estimate is limited; the true effect may be substantially different from the estimate of the effect.

Very low certainty: We have very little confidence in the effect estimate; the true effect is likely to be substantially different from the estimate of effect.

### **Explanations**

- a. Downgraded one level for inconsistency: only one trial included.
- b. Downgraded two levels for imprecision: few events and broad 95% CI.
- c. Serious adverse events were defined by Tendler et al. (1) as "other complications".
- d. Creinin et al. (2) reported no significant difference in experience of bleeding or pain between groups. A score on a visual analogue scale (VAS) score was used, which could not be entered into GRADE.
- e. Downgraded one level: data self-reported and subject to recall bias.

- 1. Tendler R, Bornstein J, Kais M, Masri I, Odeh M. Early versus late misoprostol administration after mifepristone for medical abortion. Arch Gynecol Obstet. 2015;292(5):1051-4.
- 2. Excluded (does not report on our primary outcome): Creinin MD, Pymar HC, Schwartz JL. Mifepristone 100 mg in abortion regimens. Obstet Gynecol. 2001;98(3):434-9.

<sup>\*</sup> The risk in the intervention group (and its 95% CI) is based on the assumed risk in the comparison group and the relative effect of the intervention (and its 95% CI).

Comparison 4a: Routes of misoprostol administration in combination regimens (mifepristone plus misoprostol):  $400 \, \mu g$  misoprostol administered sublingually compared with vaginally

## Summary of Findings table for Comparison 4a

Outcome	Anticipated absolu	te effect * (95% CI)	Relative effect	No. of	Certainty of the	Comment
	Risk with 400 µg vaginal misoprostol	Risk with 400 µg sublingual misoprostol	(95% CI)	participants (studies)	evidence (GRADE)	
Efficacy: ongoing pregnancy	24 per 1000	19 per 1000	RR 0.79	1479	$\oplus \oplus \oplus \bigcirc$	There is probably no difference in ongoing
		(10–38)	(0.39–1.55)	(1 RCT) 1	MODERATE a	pregnancy rates when 400 µg misoprostol is administered vaginally versus sublingually
Efficacy: completed without	896 per 1000	905 per 1000	RR 1.01	1479	$\oplus \oplus \oplus \bigcirc$	There is probably no difference in the need for
surgical intervention		(842–976)	(0.94–1.09)	(1 RCT) <sup>1</sup>	MODERATE a	surgery to complete the abortion when 400 μg misoprostol is administered vaginally versus sublingually
Efficacy: expulsion time	0 per 1000	0 per 1000	Not estimable	(0 studies)	_	No direct evidence identified
		(0–0)				
Safety: serious adverse events and complications, such as hospitalization, blood transfusion, need for further surgery beyond interventions to complete the removal of products, or death	0 per 1000	<b>0 per 1000</b> (0–0)	Not estimable	(0 studies)	_	There is probably no difference in serious adverse events when 400 µg misoprostol is administered vaginally versus sublingually
Side-effects: bleeding	0 per 1000	0 per 1000	Not estimable	(0 studies)	_	No direct evidence identified
		(0–0)				
Side-effects: pain	960 per 1000	970 per 1000	RR 1.01	1499	000	There is probably no difference in pain when
		(893–1000)	(0.93–1.08)	(1 RCT) <sup>1</sup>	MODERATE b	400 μg misoprostol is administered vaginally versus sublingually

Outcome	Anticipated absolu	te effect* (95% CI)	Relative effect (95% CI)	No. of participants (studies)	Certainty of the evidence	Comment
	Risk with 400 μg vaginal misoprostol	Risk with 400 µg sublingual misoprostol			(GRADE)	
Side-effects: vomiting	140 per 1000	<b>185 per 1000</b> (147–234)	<b>RR 1.32</b> (1.05–1.67)	1499 (1 RCT) <sup>1</sup>	⊕⊕⊕○ MODERATE♭	There is probably no difference in emesis when 400 µg misoprostol is administered vaginally versus sublingually
Satisfaction	936 per 1000	<b>936 per 1000</b> (880–1000)	<b>RR 1.00</b> (0.94–1.07)	1473 (1 RCT) <sup>1</sup>	⊕⊕⊕○ MODERATE♭	There is probably no difference in satisfaction when 400 µg misoprostol is administered vaginally versus sublingually

CI: confidence interval; RCT: randomized controlled trial; RR: risk ratio

High certainty: We are very confident that the true effect is close to the estimate of the effect.

Moderate certainty: We are moderately confident in the effect estimate; the true effect is likely to be close to the estimate of the effect, but there is a possibility that it is substantially different.

Low certainty:

Our confidence in the effect estimate is limited; the true effect may be substantially different from the estimate of the effect.

Very low certainty:

We have very little confidence in the effect estimate; the true effect is likely to be substantially different from the estimate of effect.

### **Explanations**

a. Administration not blinded. Uncertain if outcome assessment was blinded.

b. Self-reported data subject to recall and courtesy biases.

#### Reference

1. von Hertzen H, Huong NT, Piaggio G, Bayalag M, Cabezas E, Fang AH, et al. Misoprostol dose and route after mifepristone for early medical abortion: a randomised controlled noninfer iority trial. BJOG. 2010:117(10):1186-96.

<sup>\*</sup> The risk in the intervention group (and its 95% CI) is based on the assumed risk in the comparison group and the relative effect of the intervention (and its 95% CI).

Comparison 4b: Routes of misoprostol administration in combination regimens (mifepristone plus misoprostol):  $600/800 \,\mu g$  misoprostol administered sublingually compared with  $800 \,\mu g$  administered vaginally

## Summary of Findings table for Comparison 4b

Outcome	Anticipated absolu	ute effect* (95% CI)	Relative effect	No. of	Certainty of the	Comment
	Risk with 800 µg vaginal misoprostol	Risk with 600/800 µg sublingual misoprostol	(95% CI)	participants (studies)	evidence (GRADE)	
Efficacy: ongoing pregnancy	17 per 1000	2 per 1000	RR 0.15	346	$\oplus \oplus \bigcirc \bigcirc$	Our confidence in the direct estimate is limited;
		(1–51)	(0.08–3.05)	(2 RCTs) 1,2	LOW a,b	the true effect may be substantially different from the estimate of the effect
Efficacy: completed without	956 per 1000	965 per 1000	RR 1.01	346	$\Theta\Theta\bigcirc\bigcirc$	Our confidence in the direct estimate is limited;
surgical intervention		(832–1000)	(0.87–1.18)	(2 RCTs) 1,2	LOW a,b	the true effect may be substantially different from the estimate of the effect
Efficacy: expulsion time	0 per 1000	0 per 1000	Not estimable	(0 studies) °	_	No direct evidence identified
		(0–0)				
Safety: serious adverse events	0 per 1000	0 per 1000	RR 1.00	224	<b>000</b>	Our confidence in the direct estimate is limited;
and complications, such as hospitalization, blood transfusion, need for further surgery beyond interventions to complete the removal of products, or death		(0–0)	(0.02–49.96)	(1 RCT) <sup>1</sup>	LOW <sup>b,d,e</sup>	the true effect may be substantially different from the estimate of the effect
Side-effects: bleeding	0 per 1000	0 per 1000	Not estimable	(0 studies) f	_	No direct evidence identified
		(0–0)				
Side-effects: pain	964 per 1000	974 per 1000	RR 1.01	224	$\oplus \oplus \oplus \bigcirc$	There is probably no difference in pain when
		(810–1000)	(0.84–1.22)	(1 RCT) 1	MODERATE 9	600/800 μg misoprostol is administered sublingually compared with 800 μg misoprostol administered vaginally

Outcome	Anticipated absolu	ute effect* (95% CI)	Relative effect (95% CI)	No. of	Certainty of the	Comment
	Risk with 800 µg vaginal misoprostol	Risk with 600/800 µg sublingual misoprostol		participants (studies)	evidence (GRADE)	
Side-effects: vomiting	964 per 1000	521 per 1000	RR 0.54	224	$\oplus \oplus \oplus \bigcirc$	There is probably no difference in emesis when
		(386–704)	(0.40–0.73)	(1 RCT) <sup>1</sup>	MODERATE 9	600/800 μg misoprostol is administered sublingually compared with 800 μg misoprostol administered vaginally
Satisfaction	0 per 1000	0 per 1000	Not estimable	(0 studies)	_	No direct evidence identified
		(0–0)				

CI: confidence interval; RCT: randomized controlled trial; RR: risk ratio

### GRADE Working Group grades of evidence

High certainty: We are very confident that the true effect is close to the estimate of the effect.

Moderate certainty: We are moderately confident in the effect estimate; the true effect is likely to be close to the estimate of the effect, but there is a possibility that it is substantially different.

Low certainty: Our confidence in the effect estimate is limited; the true effect may be substantially different from the estimate of the effect.

Very low certainty: We have very little confidence in the effect estimate; the true effect is likely to be substantially different from the estimate of effect.

### **Explanations**

- a. Hamoda et al. (2) used a sublingual dose of 600 μg misoprostol while Tang et al. (1) used a sublingual dose of 800 μg.
- b. Downgraded one level for imprecision: few events and broad 95% CI.
- c. Tang et al. (1) reported a mean expulsion time of 3.65 hours (1–88) for the intervention versus 3.95 hours (2–101) for the comparison group.
- d. Downgraded one level for inconsistency: only one trial included.
- e. Did not explicitly define serious adverse events.
- f. Tang et al. (1) reported a mean of 17 days of bleeding for both groups.
- g. Self-reported data subject to recall and courtesy biases.

- 1. Tang OS, Chan CC, Ng EH, Lee SW, Ho PC. A prospective, randomized, placebo-controlled trial on the use of mifepristone with sublingual or vaginal misoprostol for medical abortions of less than 9 weeks gestation. Hum Reprod. 2003;18(11):2315-8.
- 2. Hamoda H, Ashok PW, Flett GM, Templeton A. A randomised controlled trial of mifepristone in combination with misoprostol administered sublingually or vaginally for medical abortion up to 13 weeks of gestation. BJOG. 2005;112(8):1102-8.

<sup>\*</sup> The risk in the intervention group (and its 95% CI) is based on the assumed risk in the comparison group and the relative effect of the intervention (and its 95% CI).

## Forest plots for Comparison 4b

Analysis 1. Efficacy: ongoing pregnancy

	Experim	ental	Conti	rol		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	<b>Events</b>	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Hamoda 2005	0	53	0	69		Not estimable	<u></u>
Tang 2003	0	112	3	112	100.0%	0.14 [0.01, 2.73]	<del></del>
Total (95% CI)		165		181	100.0%	0.14 [0.01, 2.73]	
Total events	0		3				
Heterogeneity: Not ap	plicable						0.01 0.1 1 10 100
Test for overall effect:	Z=1.29 (F	P = 0.20	)				Favours [experimental] Favours [control]

## Analysis 2. Efficacy: completed without surgical intervention

	Experim	ental	Conti	rol		Risk Ratio	Risk Ratio	
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI	
Hamoda 2005	53	53	68	69	36.2%	1.01 [0.97, 1.06]	•	
Tang 2003	110	112	105	112	63.8%	1.05 [0.99, 1.11]	•	
Total (95% CI)		165		181	100.0%	1.03 [1.00, 1.07]		
Total events	163		173					
Heterogeneity: Chi <sup>2</sup> =	1.19, df =	1 (P = 0	.28); l <sup>z</sup> = 1		0.01 0.1 1	10 100		
Test for overall effect:	Z = 1.77 (F	P = 0.08	)				Favours [experimental] Favours [	

Comparison 4c: Routes of misoprostol administration in combination regimens (mifepristone plus misoprostol): 800  $\mu$ g misoprostol administration vaginally compared with sublingually

## Summary of Findings table for Comparison 4c

Outcome	Anticipated absol	ute effect * (95% CI)	Relative effect	No. of	Certainty of the	Comment	
	Risk with 800 µg Risk with 800 µg sublingual vaginal misopro		(95% CI)	participants (studies)	evidence (GRADE)		
Efficacy: ongoing pregnancy	11 per 1000	5 per 1000	RR 0.50	1483	$\oplus \oplus \oplus \bigcirc$	There is probably no difference in this outcome	
		(2–18)	(0.15–1.67)	(1 RCT) <sup>1</sup>	MODERATE a	when 800 μg misoprostol is administered vaginally versus sublingually	
Efficacy: completed without	945 per 1000	935 per 1000	RR 0.99	1483	$\oplus \oplus \oplus \bigcirc$	There is probably no difference in this outcome	
surgical intervention		(869–1000)	(0.92–1.07)	(1 RCT) <sup>1</sup>	MODERATE a	when 800 μg misoprostol is administered vaginally versus sublingually	
Efficacy: expulsion time	0 per 1000	0 per 1000	Not estimable	(0 studies)	_	No direct evidence identified	
		(0–0)					
Safety: serious adverse events and complications, such as hospitalization, blood transfusion, need for further surgery beyond interventions to complete the removal of products, or death	0 per 1000	<b>0 per 1000</b> (0–0)	Not estimable	(0 studies) <sup>b</sup>	_	No direct evidence identified	
Side-effects: bleeding	0 per 1000	0 per 1000	Not estimable	(0 studies)	_	No direct evidence identified	
		(0–0)					
Side-effects: pain	981 per 1000	981 per 1000	RR 1.00	1501	⊕⊕○○	Our confidence in the direct estimate is limited;	
		(913–1000)	(0.93–1.07)	(2 RCTs) <sup>2,3</sup>	LOW a,c	the true effect may be substantially different from the estimate of the effect	

Outcome	Anticipated absol	ute effect* (95% CI)	Relative effect	No. of	Certainty of the	Comment	
	Risk with 800 µg sublingual misoprostol	Risk with 800 µg vaginal misoprostol	(95% CI)	participants (studies)	evidence (GRADE)		
Side-effects: vomiting	169 per 1000	<b>237 per 1000</b> (193–291)	RR 1.40 (1.14–1.72)	1501 (1 RCT) <sup>1</sup>	⊕⊕⊖⊖ LOW a,c	Our confidence in the direct estimate is limited; the true effect may be substantially different from the estimate of the effect	
Satisfaction	946 per 1000	<b>937 per 1000</b> (870–1000)	<b>RR 0.99</b> (0.92–1.07)	1481 (1 RCT) <sup>1</sup>	⊕○○○ VERY LOW a,c	We are uncertain about the effect on this outcome because the certainty of the evidence is very low	

CI: confidence interval; RCT: randomized controlled trial; RR: risk ratio

High certainty: We are very confident that the true effect is close to the estimate of the effect.

Moderate certainty: We are moderately confident in the effect estimate; the true effect is likely to be close to the estimate of the effect, but there is a possibility that it is substantially different.

Low certainty: Our confidence in the effect estimate is limited; the true effect may be substantially different from the estimate of the effect.

Very low certainty: We have very little confidence in the effect estimate; the true effect is likely to be substantially different from the estimate of effect.

### **Explanations**

- a. Downgraded one level: results from only one trial.
- b. Data not disaggregated by this comparison.
- c. Subject to recall and/or courtesy bias.

#### Reference

1. von Hertzen H, Huong NT, Piaggio G, Bayalag M, Cabezas E, Fang AH, et al. Misoprostol dose and route after mifepristone for early medical abortion: a randomised controlled noninfer iority trial. BJOG. 2010;117(10):1186-96.

<sup>\*</sup> The risk in the intervention group (and its 95% CI) is based on the assumed risk in the comparison group and the relative effect of the intervention (and its 95% CI).

# Comparison 4d: Routes of misoprostol administration in combination regimens (mifepristone plus misoprostol): $800 \, \mu g$ misoprostol administration or regimens (mifepristone plus misoprostol): $800 \, \mu g$ misoprostol administration or regimens (mifepristone plus misoprostol): $800 \, \mu g$ misoprostol administration in combination regimens (mifepristone plus misoprostol): $800 \, \mu g$ misoprostol administration in combination regimens (mifepristone plus misoprostol): $800 \, \mu g$ misoprostol administration in combination regimens (mifepristone plus misoprostol): $800 \, \mu g$ misoprostol administration in combination regimens (mifepristone plus misoprostol): $800 \, \mu g$ misoprostol administration in combination regimens (mifepristone plus misoprostol): $800 \, \mu g$ misoprostol administration in combination regimens (mifepristone plus misoprostol): $800 \, \mu g$ misoprostol administration in combination regimens (mifepristone plus misoprostol): $800 \, \mu g$ misoprostol administration in combination regimens (mifepristone plus misoprostol): $800 \, \mu g$ misoprostol administration in combination regimens (mifepristone plus misoprostol): $800 \, \mu g$ misoprostol administration regimens (mifepristone plus misoprostol): $800 \, \mu g$ misoprostol administration regimens (mifepristone plus misoprostol): $800 \, \mu g$ misoprostol administration regimens (mifepristone plus misoprostol): $800 \, \mu g$ misoprostol administration regimens (mifepristone plus misoprostol): $800 \, \mu g$ misoprostol administration regimens (mifepristone plus misoprostol): $800 \, \mu g$ misoprostol administration regimens (mifepristone plus misoprostol): $800 \, \mu g$ misoprostol administration regimens (mifepristone plus misoprostol): $800 \, \mu g$ misoprostol administration regimens (mifepristone plus misoprostol): $800 \, \mu g$ misoprostol administration regimens (mifepristone plus misoprostol): $800 \, \mu g$ misoprostol administration regimens (mifepristone plus misoprostol): $800 \, \mu g$ misoprostol administration regimens (mifepristone plus misoprostol): $800 \, \mu g$ m

# Summary of Findings table for Comparison 4d

Outcome		bsolute effect * % CI)	Relative effect (95% CI)	No. of participants (studies)	Certainty of the evidence	Comment
	Risk with 800 µg vaginal misoprostol	Risk with 800 µg oral misoprostol			(GRADE)	
Efficacy: ongoing pregnancy	1 per 1000	9 per 1000	RR 6.70	1287	$\oplus \oplus \oplus \bigcirc$	800 μg misoprostol administered orally compared
		(3–33)	(1.88–23.86)	(3 RCTs) 1-3	MODERATE a	with vaginally probably slightly increases the risk of an ongoing pregnancy
Efficacy: completed without	985 per 1000	926 per 1000	RR 0.94	1455	$\oplus \oplus \oplus \bigcirc$	800 µg misoprostol administered orally compare
surgical intervention		(837–1000)	(0.85–1.04)	(3 RCTs) 1-3	MODERATE a	with vaginally probably does not affect the need for surgical intervention
Efficacy: expulsion time	932 per 1000	848 per 1000	RR 0.91	263	$\Theta$	We are uncertain about the effect on this outcome
		(699–1000)	(0.75–1.10)	(1 RCT) <sup>2,b</sup>	VERY LOW a.c,d	because the certainty of the evidence is very low
Safety: serious adverse events	8 per 1000	3 per 1000	RR 0.35	263	⊕○○○	We are uncertain about the effect on this outcome
and complications, such as hospitalization, blood transfusion, need for further surgery beyond interventions to complete the removal of products, or death		(0–63)	(0.01–8.35)	(1 RCT) <sup>2</sup>	VERY LOW a.c.d	because the certainty of the evidence is very low
Side-effects: bleeding	0 per 1000	0 per 1000	Not estimable	(0 studies)	_	No direct evidence identified
		(0–0)				
Side-effects: pain	2 per 1000	5 per 1000	RR 3.25	1144	$\oplus \oplus \oplus \bigcirc$	800 μg misoprostol administered orally compared
		(1–52)	(0.34–31.15)	(1 RCT) <sup>1</sup>	MODERATE ®	with vaginally probably does not affect the risk of pain

Outcome		Anticipated absolute effect * (95% CI)		No. of participants (studies)	Certainty of the evidence	Comment	
	Risk with 800 µg vaginal misoprostol	Risk with 800 µg oral misoprostol			(GRADE)		
Side-effects: vomiting	356 per 1000	<b>306 per 1000</b> (260–363)	<b>RR 0.86</b> (0.73–1.02)	1219 (2 RCTs) 1,2	⊕⊕⊕○ MODERATE®	800 µg misoprostol administered orally compared with vaginally probably does not affect the risk of vomiting	
Satisfaction	0 per 1000	<b>0 per 1000</b> (0–0)	Not estimable	(0 studies) <sup>f</sup>	_	No direct evidence	

CI: confidence interval; RCT: randomized controlled trial; RR: risk ratio

### GRADE Working Group grades of evidence

High certainty: We are very confident that the true effect is close to the estimate of the effect.

Moderate certainty: We are moderately confident in the effect estimate; the true effect is likely to be close to the estimate of the effect, but there is a possibility that it is substantially different.

Low certainty: Our confidence in the effect estimate is limited; the true effect may be substantially different from the estimate of the effect.

Very low certainty: We have very little confidence in the effect estimate; the true effect is likely to be substantially different from the estimate of effect.

### **Explanations**

- a. Non-blinding of participants, providers and outcome assessors.
- b. el-Refaey et al. (2) reported expulsion in less than 4 hours.
- c. Downgraded one level for inconsistency: only one trial included.
- d. Downgraded one level: few events and wide CI.
- e. Downgraded one level: data self-reported and subject to recall bias.
- f. Schaff et al. (1) reported: "Acceptable to 89% of women in all treatment groups (889/993)".

- 1. Schaff EA, Fielding SL, Westhoff C. Randomized trial of oral versus vaginal misoprostol at one day after mifepristone for early medical abortion. Contraception. 2001;64(2):81-5.
- 2. el-Refaey H, Rajasekar D, Abdalla M, Calder L, Templeton A. Induction of abortion with mifepristone (RU 486) and oral or vaginal misoprostol. N Engl J Med. 1995;332(15):983-7.
- 3. Schaff EA, Fielding SL, Westhoff C. Randomized trial of oral versus vaginal misoprostol 2 days after mifepristone 200 mg for abortion up to 63 days of pregnancy Contraception. 2002;66(4):247-50.

<sup>\*</sup> The risk in the intervention group (and its 95% CI) is based on the assumed risk in the comparison group and the relative effect of the intervention (and its 95% CI).

## Forest plots for Comparison 4d

Analysis 1. Efficacy: ongoing pregnancy

	Experim	ental	Cont	rol		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
El-Refaey 1995	9	130	1	133	30.3%	9.21 [1.18, 71.65]	-
Schaff 2001	6	548	0	596	14.7%	14.14 [0.80, 250.35]	<del> </del>
Schaff 2002	2	219	2	268	55.1%	1.22 [0.17, 8.62]	<del></del>
Total (95% CI)		897		997	100.0%	5.53 [1.73, 17.69]	
Total events	17		3				
Heterogeneity: Chi <sup>2</sup> =	2.94, df=	2(P = 0)	.23); (23	32%			1004 04 100 100
Test for overall effect:	Z = 2.89 (F	P = 0.00	4)				0.01 0.1 1 10 100 Favours [experimental] Favours [control]

# Analysis 2. Efficacy: completed without surgical intervention

	Experim	ental	Conti	rol		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	<b>Events</b>	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
El-Refaey 1995	113	130	126	133	12.1%	0.92 [0.85, 0.99]	•
Schaff 2001	519	548	592	596	54.9%	0.95 [0.93, 0.97]	•
Schaff 2002	246	268	502	522	33.0%	0.95 [0.92, 0.99]	•
Total (95% CI)		946		1251	100.0%	0.95 [0.93, 0.97]	
Total events	878		1220				
Heterogeneity: Chi²=	0.97, $df = 3$	2 (P = 0.	.62); l <b>=</b> =	0.01 0.1 1 10 100			
Test for overall effect:	Z = 5.15 (F	o.00	001)				Favours [experimental] Favours [control]

Comparison 4e: Routes of misoprostol administration in combination regimens (mifepristone plus misoprostol): 400  $\mu$ g misoprostol administered orally compared with 800  $\mu$ g administered vaginally

## Summary of Findings table for Comparison 4e

Outcome	Anticipated absol	ute effect* (95% CI)	Relative effect	No. of participants	Certainty of the	Comment	
	Risk with 800 µg vaginal misoprostol	Risk with 400 µg oral misoprostol	(95% CI)	(studies)	evidence (GRADE)		
Efficacy: ongoing pregnancy	2 per 1000	4 per 1000	RR 2.38	1378	$\oplus \oplus \oplus \bigcirc$	There is probably no difference in ongoing	
		(1–26)	(0.34–16.81)	(2 RCTs) 1,2	MODERATE a	pregnancy rates when 400 μg misoprostol is given orally versus 800 μg misoprostol given vaginally	
Efficacy: completed without	970 per 1000	951 per 1000	RR 0.98	2025	$\oplus \oplus \oplus \bigcirc$	There is probably no difference in need for	
surgical intervention		(883–1000)	(0.91–1.04)	(2 RCTs) 1,2	MODERATE a	surgical intervention when 400 μg misoprostol is given orally versus 800 μg misoprostol given vaginally	
Efficacy: expulsion time	0 per 1000	0 per 1000	Not estimable	(0 studies)	_	No direct evidence identified	
		(0–0)					
Safety: serious adverse events	3 per 1000	1 per 1000	RR 0.33	637	⊕⊕○○	Our confidence in the direct estimate is limited;	
and complications, such as hospitalization, blood transfusion, need for further surgery beyond interventions to complete the removal of products, or death		(0–26)	(0.01–8.15)	(1 RCT) <sup>1,b</sup>	LOW a.c	the true effect may be substantially different from the estimate of the effect	
Side-effects: bleeding	8 per 1000	40 per 1000	RR 5.19	741	$\oplus \oplus \bigcirc \bigcirc$	Our confidence in the direct estimate is limited;	
		(12–52)	(1.61–6.79)	(1 RCT) <sup>2,d</sup>	LOW a,c	the true effect may be substantially different from the estimate of the effect	
Side-effects: pain	958 per 1000	900 per 1000	RR 0.94	738	ФФОО	Our confidence in the direct estimate is limited;	
		(804–1000)	(0.84–1.07)	(1 RCT) <sup>2,e</sup>	LOW a,c	the true effect may be substantially different from the estimate of the effect	

Outcome	Anticipated absolu	ute effect * (95% CI)	Relative effect	No. of participants	Certainty of the	Comment	
	Risk with 800 µg vaginal misoprostol	Risk with 400 µg oral misoprostol	(95% CI)	(studies)	evidence (GRADE)		
Side-effects: vomiting	236 per 1000	<b>361 per 1000</b> (252–519)	RR 1.53 (1.07–2.20)	637 (1 RCT) <sup>1</sup>	⊕⊕⊖⊖ LOWa,c	Our confidence in the direct estimate is limited; the true effect may be substantially different from the estimate of the effect	
Satisfaction	881 per 1000	899 per 1000 (802–1000)	<b>RR 1.02</b> (0.91–1.16)	599 (1 RCT) <sup>1,f</sup>	⊕⊕○○ LOW cg	Our confidence in the direct estimate is limited; the true effect may be substantially different from the estimate of the effect <sup>f</sup>	

CI: confidence interval; RCT: randomized controlled trial; RR: risk ratio

### GRADE Working Group grades of evidence

High certainty: We are very confident that the true effect is close to the estimate of the effect.

Moderate certainty: We are moderately confident in the effect estimate; the true effect is likely to be close to the estimate of the effect, but there is a possibility that it is substantially different.

Low certainty:

Our confidence in the effect estimate is limited; the true effect may be substantially different from the estimate of the effect.

Very low certainty:

We have very little confidence in the effect estimate; the true effect is likely to be substantially different from the estimate of effect.

### **Explanations**

- a. Both studies (1,2) unblinded (providers, participants and outcome assessors). Risk of selection bias, with unclear allocation concealment.
- b. Shannon et al. (1) reported one maternal death due to *C. sordellii* infection.
- c. Downgraded one level for inconsistency: only one trial included.
- d. Schaff et al. (2) defined this as bleeding that warranted a surgical intervention.
- e. Shannon et al. (1) reported a mean pain score on a visual analogue scale (VAS; 0–10) of 5.8 for the intervention (400 μg oral misoprostol) and 6.7 for the comparator (800 μg vaginal misoprostol).
- f. Schaff et al. (2) reported that the procedure was "acceptable to 89% of women in all treatment groups" but did not disaggregate by route of administration.
- g. Subject to recall and courtesy biases.

- 1. Shannon C, Wiebe E, Jacot F, Guilbert E, Dunn S, Sheldon WR, et al. Regimens of misoprostol with mifepristone for early medical abortion: a randomised trial. BJOG. 2006;113(6):621-8.
- 2. Schaff EA, Fielding SL, Westhoff C. Randomized trial of oral versus vaginal misoprostol 2 days after mifepristone 200 mg for abortion up to 63 days of pregnancy. Contraception. 2002;66(4):247-50.
  - Excluded (did not report on primary outcome): Arvidsson C, Hellborg M, Gemzell-Danielsson K. Preference and acceptability of oral versus vaginal administration of misoprostol in medical abortion with mifepristone. Eur J Obstet Gynecol Reprod Biol. 2005;123(1):87-91.

<sup>\*</sup> The risk in the intervention group (and its 95% CI) is based on the assumed risk in the comparison group and the relative effect of the intervention (and its 95% CI).

# Forest plots for Comparison 4e

Analysis 1. Efficacy: ongoing pregnancy

	Experim	ental	Conti	rol		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	<b>Events</b>	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Schaff 2002	2	219	2	522	100.0%	2.38 [0.34, 16.81]	<del></del>
Shannon 2006	0	319	0	318		Not estimable	
Total (95% CI)		538		840	100.0%	2.38 [0.34, 16.81]	
Total events	2		2				
Heterogeneity: Not ap	plicable						0.01 0.1 1 10 100
Test for overall effect:	Z = 0.87 (F	P = 0.38	)				0.01 0.1 1 10 100 Favours [experimental] Favours [control]

# Analysis 2. Efficacy: completed without surgical intervention

	Experim	ental	Conti	rol		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Schaff 2002	371	404	964	984	65.2%	0.94 [0.91, 0.97]	
Shannon 2006	302	319	299	318	34.8%	1.01 [0.97, 1.05]	•
Total (95% CI)		723		1302	100.0%	0.96 [0.94, 0.98]	
Total events	673		1263				
Heterogeneity: Chi²=	8.32, df =	1 (P = 0)	.004); l²=	88%		0.01 0.1 1 10 100	
Test for overall effect:	Z = 3.23 (F	P = 0.00	1)				Favours [experimental] Favours [control]

Comparison 4f: Routes of misoprostol administration in combination regimens (mifepristone plus misoprostol):  $800 \, \mu g$  misoprostol administered buccally compared with sublingually

## Summary of Findings table for Comparison 4f

Outcome	Anticipated absolu	ute effect* (95% CI)	Relative effect	No. of participants	Certainty of the	Comment
	Risk with 800 µg sublingual misoprostol	Risk with 800 µg buccal misoprostol	(95% CI)	(studies)	evidence (GRADE)	
Efficacy: ongoing pregnancy	22 per 1000	22 per 1000	RR 0.98	90	$\oplus$	We are uncertain about the effect on this
		(0–1000)	(0.02–49.25)	(1 RCT) <sup>1</sup>	VERY LOW a-c	outcome because the certainty of the evidence is very low
Efficacy: completed without	978 per 1000	958 per 1000	RR 0.98	90	ФООО	We are uncertain about the effect on this
surgical intervention	·	(714–1000)	(0.73–1.33)	(1 RCT) <sup>1</sup>	VERY LOW d	outcome because the certainty of the evidence is very low
Efficacy: expulsion time	0 per 1000	0 per 1000	Not estimable	(0 studies)	_	No direct evidence identified
		(0–0)				
Safety: serious adverse events	0 per 1000	0 per 1000	RR 0.98	178	$\Theta$	We are uncertain about the effect on this
and complications, such as hospitalization, blood transfusion, need for further surgery beyond interventions to complete the removal of products, or death		(0–0)	(0.02–48.70)	(1RCT)	VERY LOW <sup>c,d</sup>	outcome because the certainty of the evidence is very low
Side-effects: bleeding	0 per 1000	0 per 1000	Not estimable	(0 studies)	<del>_</del>	No direct evidence identified
		(0–0)				
Side-effects: pain	0 per 1000	0 per 1000	Not estimable	(0 studies)	_	No direct evidence identified
		(0–0)				

Outcome	Anticipated absolu	ite effect* (95% CI)	Relative effect (95% CI)	No. of participants (studies)	Certainty of the	Comment
	Risk with 800 µg sublingual misoprostol	Risk with 800 µg buccal misoprostol			evidence (GRADE)	
Side-effects: vomiting	141 per 1000	<b>110 per 1000</b> (58–214)	RR 0.78 (0.41–1.52)	258 (1 RCT) <sup>1</sup>	⊕○○○ VERYLOW °	We are uncertain about the effect on this outcome because the certainty of the evidence is very low
Satisfaction	0 per 1000	<b>0 per 1000</b> (0–0)	Not estimable	(0 studies)	_	No direct evidence identified

CI: confidence interval; RCT: randomized controlled trial; RR: risk ratio

High certainty: We are very confident that the true effect is close to the estimate of the effect.

Moderate certainty: We are moderately confident in the effect estimate; the true effect is likely to be close to the estimate of the effect, but there is a possibility that it is substantially different.

Low certainty:

Our confidence in the effect estimate is limited; the true effect may be substantially different from the estimate of the effect.

Very low certainty:

We have very little confidence in the effect estimate; the true effect is likely to be substantially different from the estimate of effect.

### **Explanations**

- a. Downgraded two levels in imprecision: small numbers and broad CI.
- b. Results not separated by number of doses of misoprostol received by women in the comparison arm.
- c. Chai et al. (1) reported a median of 3.3 hours (range: 1.45–6.9) in the intervention group (buccal misoprostol) and 3.1 (range: 0.83–502) in the comparison group (sublingual misoprostol).
- d. Downgraded one level: results only from one trial.

#### References

1. Chai J, Wong CY, Ho PC. A randomized clinical trial comparing the short-term side effects of sublingual and buccal routes of misoprostol administration for medical abortions up to 63 days' gestation. Contraception. 2013;87(4):480-5.

<sup>\*</sup> The risk in the intervention group (and its 95% CI) is based on the assumed risk in the comparison group and the relative effect of the intervention (and its 95% CI).

Comparison 4g: Routes of misoprostol administration in combination regimens (mifepristone plus misoprostol):  $400 \, \mu g$  misoprostol administered orally compared with sublingually

# Summary of Findings table for Comparison 4g

Outcome	Anticipated absol	ute effect * (95% CI)	Relative effect	No. of	Certainty of the	Comment
	Risk with 400 µg sublingual misoprostol	Risk with 400 µg oral misoprostol	(95% CI)	participants (studies)	evidence (GRADE)	
Efficacy: ongoing pregnancy	18 per 1000	6 per 1000	RR 0.44	564	$\oplus \oplus \bigcirc \bigcirc$	Our confidence in the direct estimate is limited;
		(1–36)	(0.10–1.96)	(2 RCT) 1,2	LOW a,b	the true effect may be substantially different from the estimate of the effect
Efficacy: completed without	942 per 1000	952 per 1000	RR 1.03	564	ФФОО	Our confidence in the direct estimate is limited;
surgical intervention		(839–1000)	(0.99–1.07	(2 RCTs) 1,2	LOW a,b	the true effect may be substantially different from the estimate of the effect
Efficacy: expulsion time	0 per 1000	0 per 1000	Not estimable	(0 studies)	_	No direct evidence identified
		(0–0)				
Safety: serious adverse events	0 per 1000	0 per 1000	RR 0.98	471	<b>0000</b>	Our confidence in the direct estimate is limited;
and complications, such as hospitalization, blood transfusion, need for further surgery beyond interventions to complete the removal of products, or death		(0–0)	(0.01–49.14)	(1 RCT) <sup>2</sup>	LOW a-c	the true effect may be substantially different from the estimate of the effect
Side-effects: bleeding	194 per 1000	204 per 1000	RR 1.05	470	<b>0000</b>	Our confidence in the direct estimate is limited;
		(140–295)	(0.72–1.52)	(1 RCT) <sup>2,d</sup>	LOW a-c	the true effect may be substantially different from the estimate of the effect
Side-effects: pain	339 per 1000	336 per 1000	RR 0.99	563	ФООО	We are uncertain about the effect on this
		(261–428)	(0.77–1.26)	(2 RCTs) 1,2	VERY LOW c,e,f	outcome because the certainty of the evidence is very low

Outcome	Anticipated absolu	ute effect * (95% CI)	Relative effect (95% CI)	No. of participants	Certainty of the	Comment
	Risk with 400 µg sublingual misoprostol	Risk with 400 µg oral misoprostol	sk with 400 µg		evidence (GRADE)	
Side-effects: vomiting	410 per 1000	<b>447 per 1000</b> (328–554)	<b>RR 1.09</b> (0.80–1.35)	564 (2 RCTs) <sup>1,2</sup>	⊕○○○ VERYLOW e,f	We are uncertain about the effect on this outcome because the certainty of the evidence is very low
Satisfaction	914 per 1000	<b>932 per 1000</b> (813–1000)	<b>RR 1.02</b> (0.89–1.18)	470 (1 RCT) <sup>2</sup>	⊕⊕⊖⊖ LOW a,c	Our confidence in the direct estimate is limited; the true effect may be substantially different from the estimate of the effect

CI: confidence interval; RCT: randomized controlled trial; RR: risk ratio

### GRADE Working Group grades of evidence

High certainty: We are very confident that the true effect is close to the estimate of the effect.

Moderate certainty: We are moderately confident in the effect estimate; the true effect is likely to be close to the estimate of the effect, but there is a possibility that it is substantially different.

Low certainty: Our confidence in the effect estimate is limited; the true effect may be substantially different from the estimate of the effect.

Very low certainty: We have very little confidence in the effect estimate; the true effect is likely to be substantially different from the estimate of effect.

### **Explanations**

- a. Non-blinding of participants, providers and outcome assessors.
- b. High risk for detection and performance bias.
- c. Downgraded one level for inconsistency: only one trial included.
- d. Defined in the study by Raghavan et al. (2) as more than the woman expected.
- e. Downgraded one level: data self-reported and subject to recall bias.
- f. Downgraded two levels for imprecision: few events and broad 95% CI.

- 1. Dahiya K, Ahuja K, Dhingra A, Duhan N, Nanda S. Efficacy and safety of mifepristone and buccal misoprostol versus buccal misoprostol alone for medical abortion. Arch Gynecol Obstet. 2012;285(4):1055-8.
- 2. Raghavan Ś, Comendant R, Digol I, Ungureanu S, Friptu V, Bracken H, et al. Two-pill regimens of misoprostol after mifepristone medical abortion through 63 days' gestational age: a randomized controlled trial of sublingual and oral misoprostol. Contraception . 2009;79(2):84-90.

<sup>\*</sup> The risk in the intervention group (and its 95% CI) is based on the assumed risk in the comparison group and the relative effect of the intervention (and its 95% CI).

### Forest plots for Comparison 4g

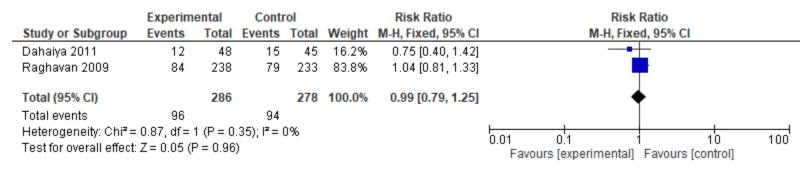
### Analysis 1. Efficacy: ongoing pregnancy

	Experim	ental	Conti	rol		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	<b>Events</b>	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Dahaiya 2011	1	48	0	45	9.3%	2.82 [0.12, 67.40]	
Raghavan 2009	1	238	5	233	90.7%	0.20 [0.02, 1.66]	<del></del>
Total (95% CI)		286		278	100.0%	0.44 [0.10, 1.96]	
Total events	2		5				
Heterogeneity: Chi²=	$1.86$ , df = $^{\circ}$	1 (P = 0	$(17); I^2 = $		0.04 0.4 10 100		
Test for overall effect:	Z = 1.08 (F	P = 0.28	)				0.01 0.1 1 10 100 Favours [experimental] Favours [control]

### Analysis 2. Efficacy: completed without surgical intervention

	Experim	ental	Conti	rol		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Dahaiya 2011	42	48	43	45	16.7%	0.92 [0.81, 1.04]	•
Raghavan 2009	235	238	219	233	83.3%	1.05 [1.01, 1.09]	•
Total (95% CI)		286		278	100.0%	1.03 [0.99, 1.07]	•
Total events	277		262				
Heterogeneity: Chi <sup>2</sup> = 4.77, df = 1 (P = 0.03); I <sup>2</sup> = 79%							0.01 0.1 1 10 100
Test for overall effect:	Z=1.51 (F	P = 0.13	)				0.01 0.1 1 10 100 Favours [experimental] Favours [control]

### Analysis 3. Side-effect: pain



# Analysis 4. Side-effect: vomiting

	Experim	ental	Conti	rol		Risk Ratio	Risk	Ratio	
Study or Subgroup	Events	Total	<b>Events</b>	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixe	ed, 95% CI	
Dahaiya 2011	10	48	3	45	2.7%	3.13 [0.92, 10.63]	_	<del></del>	
Raghavan 2009	125	238	111	233	97.3%	1.10 [0.92, 1.32]			
Total (95% CI)		286		278	100.0%	1.16 [0.97, 1.39]		•	
Total events	135		114						
Heterogeneity: Chi²=	2.80, df =	1 (P = 0	.09); l²=		0.01 0.1	1 10	100		
Test for overall effect:	Z = 1.58 (F	P = 0.11	)				Favours [experimental]		100

Comparison 4h: Routes of misoprostol administration in combination regimens (mifepristone plus misoprostol):  $800 \, \mu g$  misoprostol administration buccally compared with vaginally

# Summary of Findings table for Comparison 4h

Outcome	Anticipated absol	ute effect* (95% CI)	Relative effect	No. of participants	Certainty of the	Comment	
	Risk with 800 µg vaginal misoprostol	Risk with 800 µg buccal misoprostol	(95% CI)	(studies)	evidence (GRADE)		
Efficacy: ongoing pregnancy	19 per 1000	9 per 1000	RR 0.49	429	$\oplus \oplus \bigcirc \bigcirc$	Our confidence in the direct estimate is limited;	
		(2–50)	(0.09–2.68)	(1 RCT) 1,2	LOW a,b	the true effect may be substantially different from the estimate of the effect	
Efficacy: completed without	934 per 1000	934 per 1000	RR 1.00	429	$\Theta\Theta\bigcirc\bigcirc$	Our confidence in the direct estimate is limited;	
surgical intervention		(813–1000)	(0.87–1.15)	(1 RCT) 1,2	LOW a,b	the true effect may be substantially different from the estimate of the effect	
Efficacy: expulsion time	0 per 1000	0 per 1000	Not estimable	(0 studies)	_	No direct evidence identified	
		(0–0)					
Safety: serious adverse events	0 per 1000	0 per 1000	RR 2.94	429	<b>0000</b>	Our confidence in the direct estimate is limited;	
and complications, such as hospitalization, blood transfusion, need for further surgery beyond interventions to complete the removal of products, or death		(0–0)	(0.12–71.80)	(1 RCT) <sup>1</sup>	LOW a,b	the true effect may be substantially different from the estimate of the effect	
Side-effects: bleeding	0 per 1000	0 per 1000	Not estimable	(0 studies)	_	No direct evidence identified	
		(0–0)					
Side-effects: pain	0 per 1000	0 per 1000	Not estimable	(0 studies)	_	No direct evidence identified	
		(0–0)					

Outcome	Anticipated absolu	ute effect* (95% CI)	Relative effect	No. of participants	Certainty of the	Comment
	Risk with 800 µg vaginal misoprostol	Risk with 800 µg buccal misoprostol	(95% CI)	(studies)	evidence (GRADE)	
Side-effects: vomiting	319 per 1000	<b>354 per 1000</b> (271–469)	<b>RR 1.11</b> (0.85–1.47)	429 (1 RCT) <sup>1</sup>	⊕⊕○○ LOW a,b	Our confidence in the direct estimate is limited; the true effect may be substantially different from the estimate of the effect
Satisfaction	948 per 1000	<b>929 per 1000</b> (805–1000)	RR 0.98 (0.85–1.13)	423 (1 RCT) <sup>1</sup>	⊕⊕⊖⊖ LOW a-c	Our confidence in the direct estimate is limited; the true effect may be substantially different from the estimate of the effect

CI: confidence interval; RCT: randomized controlled trial; RR: risk ratio

High certainty: We are very confident that the true effect is close to the estimate of the effect.

Moderate certainty: We are moderately confident in the effect estimate; the true effect is likely to be close to the estimate of the effect, but there is a possibility that it is substantially different.

Low certainty:

Our confidence in the effect estimate is limited; the true effect may be substantially different from the estimate of the effect.

Very low certainty:

We have very little confidence in the effect estimate; the true effect is likely to be substantially different from the estimate of effect.

### **Explanations**

a. High risk for performance and detection biases.

b. Downgraded one level for inconsistency: only one trial included.

c. Subject to recall bias.

- 1. Middleton T, Schaff E, Fielding SL, Scahill M, Shannon C, Westheimer E, et al. Randomized trial of mifepristone and buccal or vaginal misoprostol for abortion through 56 days of last menstrual period. Contraception. 2005;72(5):328-32.
- 2. Excluded (did not report on the critical outcome): Garg G, Takkar N, Sehgal A. Buccal versus vaginal misoprostol administration for the induction of first and second trimester abortions. J Obstet Gynaecol India. 2015;65(2):111-6.

<sup>\*</sup> The risk in the intervention group (and its 95% CI) is based on the assumed risk in the comparison group and the relative effect of the intervention (and its 95% CI).

Comparison 4i: Routes of misoprostol administration in combination regimens (mifepristone plus misoprostol): 400  $\mu$ g misoprostol administration buccally compared with sublingually

## Summary of Findings table for Comparison 4i

Outcome	Anticipated abso	ute effect* (95% CI)	Relative effect	No. of	Certainty of the	Comment
	Risk with 400 µg sublingual misoprostol	Risk with 400 µg buccal misoprostol	(95% CI)	participants (studies)	evidence (GRADE)	
Efficacy: ongoing pregnancy	15 per 1000	23 per 1000	RR 1.55	539	$\oplus \oplus \bigcirc \bigcirc$	Our confidence in the direct estimate is limited;
		(3–165)	(0.22–11.03)	(1 RCT) <sup>1</sup>	LOW a,b	the true effect may be substantially different from the estimate of the effect
Efficacy: completed without	974 per 1000	954 per 1000	RR 0.98	539	<b>000</b>	Our confidence in the direct estimate is limited;
surgical intervention		(886–1000)	(0.91–1.04)	(1 RCT) <sup>1</sup>	LOW a,b	the true effect may be substantially different from the estimate of the effect
Efficacy: expulsion time	0 per 1000	0 per 1000	Not estimable	(0 studies)	_	No direct evidence identified
		(0–0)				
Safety: serious adverse events	0 per 1000	0 per 1000	RR 0.33	539	⊕⊕○○	Our confidence in the direct estimate is limited;
and complications, such as hospitalization, blood transfusion, need for further surgery beyond interventions to complete the removal of products, or death		(0–0)	(0.01–8.15)	(1 RCT) <sup>1,c</sup>	LOW a,b	the true effect may be substantially different from the estimate of the effect
Side-effects: bleeding	562 per 1000	1000 per 1000	RR 5.19	526	<b>0000</b>	Our confidence in the direct estimate is limited;
		(904–1000)	(1.61–6.79)	(1 RCT) <sup>1</sup>	LOW a,b	the true effect may be substantially different from the estimate of the effect
Side-effects: pain	800 per 1000	752 per 1000	RR 0.94	526	<b>0</b>	Our confidence in the direct estimate is limited;
	·	(672–856)	(0.84–1.07)	(1 RCT) <sup>1</sup>	LOW a,b	the true effect may be substantially different from the estimate of the effect

Outcome	Anticipated absol	ute effect * (95% CI)	Relative effect	No. of	Certainty of the	Comment	
	Risk with 400 µg sublingual misoprostol	Risk with 400 μg buccal misoprostol	(95% CI)	participants (studies)	evidence (GRADE)		
Side-effects: vomiting	219 per 1000	335 per 1000	RR 1.53	526	$\oplus \oplus \bigcirc \bigcirc$	Our confidence in the direct estimate is limited; the true effect may be substantially different from	
		(235–482)	(1.07–2.20)	(1 RCT) <sup>1</sup>	LOW a,b	the estimate of the effect	
Satisfaction	958 per 1000	978 per 1000	RR 1.02	533	$\Theta\Theta\bigcirc\bigcirc$	Our confidence in the direct estimate is limited;	
		(872–1000)	(0.91–1.16)	(1 RCT) <sup>1</sup>	LOW b,d	the true effect may be substantially different from the estimate of the effect	

CI: confidence interval; RCT: randomized controlled trial; RR: risk ratio

High certainty: We are very confident that the true effect is close to the estimate of the effect.

Moderate certainty: We are moderately confident in the effect estimate; the true effect is likely to be close to the estimate of the effect, but there is a possibility that it is substantially different.

Low certainty:

Our confidence in the effect estimate is limited; the true effect may be substantially different from the estimate of the effect.

Very low certainty:

We have very little confidence in the effect estimate; the true effect is likely to be substantially different from the estimate of effect.

### **Explanations**

a. Both studies unblinded (providers, participants and outcome assessors). Risk of selection bias, with unclear allocation concealment.

- b. Downgraded one level for inconsistency: only one trial included.
- c. Maternal death due to C. sordellii infection.
- d. Subject to recall and courtesy biases.

#### References

1. Raghavan S, Comendant R, Digol I, Ungureanu S, Dondiuc I, Turcanu S, et al. Comparison of 400 mcg buccal and 400 mcg sublingual misoprostol after mifepristone medical abortion through 63 days' LMP: a randomized controlled trial. Contraception. 2010;82(6):513-9.

<sup>\*</sup> The risk in the intervention group (and its 95% CI) is based on the assumed risk in the comparison group and the relative effect of the intervention (and its 95% CI).

Comparison 4j: Routes of misoprostol administration in combination regimens (mifepristone plus misoprostol):  $800 \, \mu g$  misoprostol administration or regimens (mifepristone plus misoprostol):  $800 \, \mu g$  misoprostol administration or regimens (mifepristone plus misoprostol):  $800 \, \mu g$  misoprostol administration in combination regimens (mifepristone plus misoprostol):  $800 \, \mu g$  misoprostol administration in combination regimens (mifepristone plus misoprostol):  $800 \, \mu g$  misoprostol administration in combination regimens (mifepristone plus misoprostol):  $800 \, \mu g$  misoprostol administration in combination regimens (mifepristone plus misoprostol):  $800 \, \mu g$  misoprostol administration in combination regimens (mifepristone plus misoprostol):  $800 \, \mu g$  misoprostol administration in combination regimens (mifepristone plus misoprostol):  $800 \, \mu g$  misoprostol administration in combination regimens (mifepristone plus misoprostol):  $800 \, \mu g$  misoprostol administration in combination regimens (mifepristone plus misoprostol):  $800 \, \mu g$  misoprostol administration in combination regimens (mifepristone plus misoprostol):  $800 \, \mu g$  misoprostol administration in combination regimens (mifepristone plus misoprostol):  $800 \, \mu g$  misoprostol administration in combination regimens (mifepristone plus misoprostol):  $800 \, \mu g$  misoprostol administration regimens (mifepristone plus misoprostol):  $800 \, \mu g$  misoprostol administration regimens (mifepristone plus misoprostol):  $800 \, \mu g$  misoprostol administration regimens (mifepristone plus misoprostol):  $800 \, \mu g$  misoprostol administration regimens (mifepristone plus misoprostol):  $800 \, \mu g$  misoprostol administration regimens (mifepristone plus misoprostol):  $800 \, \mu g$  misoprostol administration regimens (mifepristone plus misoprostol):  $800 \, \mu g$  misoprostol administration regimens (mifepristone plus misoprostol):  $800 \, \mu g$  misoprostol administration regimens (mifepristone plus misoprostol):  $800 \, \mu g$  misoprostol administration regimens (mifepristone pl

# Summary of Findings table for Comparison 4j

Outcome	Anticipated absolu	ite effect* (95% CI)	Relative effect	No. of	Certainty of the	Comment	
	Risk with 800 μg buccal misoprostol	Risk with 800 µg oral misoprostol	(95% CI)	participants (studies)	evidence (GRADE)		
Efficacy: ongoing pregnancy	10 per 1000	34 per 1000	RR 3.61	847	$\Theta\Theta\bigcirc\bigcirc$	Our confidence in the direct estimate is limited;	
		(11–103)	(1.20–10.80)	(1 RCT) <sup>1</sup>	LOW a,b	the true effect may be substantially different from the estimate of the effect	
Efficacy: completed without	962 per 1000	933 per 1000	RR 0.97	847	$\oplus \oplus \bigcirc \bigcirc$	Our confidence in the direct estimate is limited;	
surgical intervention		(847–1000)	(0.88–1.07)	(1 RCT) <sup>1</sup>	LOW c,d	the true effect may be substantially different from the estimate of the effect	
Efficacy: expulsion time	0 per 1000	0 per 1000	Not estimable	(0 studies)	_	No direct evidence identified	
		(0–0)					
Safety: serious adverse events	2 per 1000	1 per 1000	RR 0.33	847	<b>0000</b>	Our confidence in the direct estimate is limited;	
and complications, such as hospitalization, blood transfusion, need for further surgery beyond interventions to complete the removal of products, or death		(0–19)	(0.01–8.08)	(1 RCT) <sup>1,e</sup>	LOW c,d	the true effect may be substantially different from the estimate of the effect	
Side-effects: bleeding	0 per 1000	0 per 1000	Not estimable	(0 studies)	_	No direct evidence identified	
		(0–0)					
Side-effects: pain	0 per 1000	0 per 1000	Not estimable	(0 studies)	_	No direct evidence identified	
		(0–0)					
Side-effects: vomiting	476 per 1000	447 per 1000	RR 0.94	830	<b>0000</b>	Our confidence in the direct estimate is limited;	
		(376–528)	(0.79–1.11)	(1 RCT) <sup>1</sup>	LOW d	the true effect may be substantially different from the estimate of the effect	

Outcome	Anticipated absolute effect* (95% CI)		Relative effect	No. of	Certainty of the	Comment
	Risk with 800 µg buccal misoprostol	Risk with 800 µg oral misoprostol	(95% CI)	participants (studies)	evidence (GRADE)	
Satisfaction	911 per 1000	929 per 1000	RR 1.02	835	$\Theta\Theta\bigcirc\bigcirc$	Our confidence in the direct estimate is limited; the true effect may be substantially different from the estimate of the effect
		(829–1000)	(0.91–1.12)	(1 RCT) <sup>1</sup>	LOW <sup>d</sup>	

CI: confidence interval; RCT: randomized controlled trial; RR: risk ratio

#### GRADE Working Group grades of evidence

High certainty: We are very confident that the true effect is close to the estimate of the effect.

Moderate certainty: We are moderately confident in the effect estimate; the true effect is likely to be close to the estimate of the effect, but there is a possibility that it is substantially different.

Low certainty:

Our confidence in the effect estimate is limited; the true effect may be substantially different from the estimate of the effect.

Very low certainty:

We have very little confidence in the effect estimate; the true effect is likely to be substantially different from the estimate of effect.

#### **Explanations**

- a. Downgraded for high risk of reporting and detection biases. Reporting bias: outcome of time to expulsion not reported although it was stated as an outcome. High risk for selection bias, with unclear randomization and allocation.
- b. Misoprostol administered at 24 or 48 hours in the comparison arm.
- c. Study participants and providers not blinded. Unclear ifoutcome assessment was blinded.
- d. Downgraded one level: results from only one trial.
- e. There was one surgery for ruptured ectopic pregnancy in the study by Chai et al (1).

#### References

1. Chai J, Wong CY, Ho PC. A randomized clinical trial comparing the short-term side effects of sublingual and buccal routes of misoprostol administration for medical abortions up to 63 days' gestation. Contraception 2013;87(4):480-5.

<sup>\*</sup> The risk in the intervention group (and its 95% CI) is based on the assumed risk in the comparison group and the relative effect of the intervention (and its 95% CI).

### Comparison 4k: Routes of misoprostol administration in combination regimens (mifepristone plus misoprostol): excluded studies

Two studies were identified but excluded as they did not report on the primary outcome. Arvidsson et al. (1) compared 400 µg misoprostol given orally with 800 µg misoprostol given vaginally. Aubeny and Chatellier (2) compared a dose of 400 µg misoprostol given orally versus vaginally.

- 1. Arvidsson C, Hellborg M, Gemzell-Danielsson K. Preference and acceptability of oral versus vaginal administration of misoprostol in medical abortion with mifepristone. Eur J Obstet Gynecol Reprod Biol. 2005;123(1):87-91.
- 2. Aubeny E, Chatellier G. A randomized comparison of mifepristone and self-administered oral or vaginal misoprostol for early abortion. Eur J Contracept Reprod Health Care. 2000;5(3):171-6.

# Comparison 5: Medical management (800 µg vaginal misoprostol) compared with surgical management

# Summary of Findings table for Comparison 5

Outcome	Anticipated absolute effect* (95% CI)		Relative effect	No. of	Certainty of the	Comment
	Risk with surgical management	Risk with 800 µg vaginal misoprostol	(95% CI)	participants (studies)	evidence (GRADE)	
Efficacy: ongoing pregnancy	0 per 1000	0 per 1000	RR 6.70	137	$\Theta$	We are uncertain about the effect on this outcome because the certainty of the evidence is very low
		(0–0)	(1.88–23.86)	(1 RCT) <sup>1</sup>	VERY LOW a-d	
Efficacy: completed without surgical intervention	956 per 1000	975 per 1000	RR 1.02	137	⊕○○○	We are uncertain about the effect on this outcome because the certainty of the evidence is very low
		(851–1000)	(0.89–1.17)	(1 RCT) <sup>1</sup>	VERY LOW a-d	
Efficacy: expulsion time < 24 h	956 per 1000	679 per 1000	RR 0.71	137	⊕○○○	We are uncertain about the effect on this
		(497–927)	(0.52–0.97)	(1 RCT) <sup>1</sup>	VERY LOW a-d	outcome because the certainty of the evidence is very low
Safety: serious adverse events	15 per 1000	5 per 1000	RR 0.33	137	⊕○○○	We are uncertain about the effect on this outcome because the certainty of the evidence is very low
and complications, such as hospitalization, blood transfusion, need for further surgery beyond interventions to complete the removal of products, or death		(0–118)	(0.01–8.04)	(1 RCT) <sup>1</sup>	VERY LOW a-d	
Side-effects: bleeding	0 per 1000	0 per 1000	RR 6.60	137	⊕○○○	We are uncertain about the effect on this outcome because the certainty of the evidence is very low
		(0–0)	(0.34–125.00)	(1 RCT) <sup>1,e</sup>	VERY LOW a-d	
Side-effects: pain	1000 per 1000	700 per 1000	RR 0.70	137	⊕○○○	We are uncertain about the effect on this outcome because the certainty of the evidence is very low
		(510–950)	(0.51–0.95)	(1 RCT) 1,f	VERY LOW a-d	

Outcome	Anticipated absolute effect* (95% CI)		Relative effect	No. of	Certainty of the	Comment
	Risk with surgical management	Risk with 800 µg vaginal misoprostol	(95% CI)	participants (studies)	evidence (GRADE)	
Side-effects: vomiting	29 per 1000	<b>56 per 1000</b> (11–297)	RR 1.91 (0.36–10.10)	137 (1 RCT) <sup>1</sup>	⊕○○○ VERYLOW a-d	We are uncertain about the effect on this outcome because the certainty of the evidence is very low
Satisfaction	0 per 1000	<b>0 per 1000</b> (0–0)	Not estimable	(0 studies) g	_	No direct evidence identified

CI: confidence interval; RCT: randomized controlled trial; RR: risk ratio

High certainty: We are very confident that the true effect is close to the estimate of the effect.

Moderate certainty: We are moderately confident in the effect estimate; the true effect is likely to be close to the estimate of the effect, but there is a possibility that it is substantially different.

Low certainty: Our confidence in the effect estimate is limited; the true effect may be substantially different from the estimate of the effect.

Very low certainty: We have very little confidence in the effect estimate; the true effect is likely to be substantially different from the estimate of effect.

### **Explanations**

- a. Non-blinding of participants, providers and outcome assessors. Inadequate randomization strategy: relied on the use of even/odd numbers.
- b. Downgraded one level for inconsistency: only one trial included.
- c. Study included women with estimated gestational age to 49 days only.
- d. Downgraded two levels for imprecision: few events and broad 95% CI.
- e. Defined by Prasad et al. (1) as more than their regular menstruation, evaluated by patient self-assessment using a pictorial chart.
- f. Patients were asked to self-reportif pain was mild, moderate or severe. It is unclear from the manuscript by Prasad et al. (1) if the numbers (of women reporting pain) reflect any pain, or one of these subcategories.
- g. Results not reported by group. Prasad et al. (1) noted that, overall, "132/137 opted for medical method of abortion irrespective of previous experience with abortion".

#### References

1. Prasad S, Kumar A, Divya A. Early termination of pregnancy by single-dose 800 microg misoprostol compared with surgical evacuation. Fertil Steril. 2009;91(1):28-31.

<sup>\*</sup> The risk in the intervention group (and its 95% CI) is based on the assumed risk in the comparison group and the relative effect of the intervention (and its 95% CI).

# Comparison 6a: Dose and interval in misoprostol-only regimens: 400 μg orally every 3 hours (4 doses) compared with 600 μg vaginally once

# Summary of Findings table for Comparison 6a

Outcome	Anticipated absolu	ute effect * (95% CI)	Relative effect	No. of	Certainty of the	Comment	
	Risk with 600 µg vaginal misoprostol once	Risk with 400 µg oral misoprostol every 3 h (for 4 doses)	(95% CI)	participants (studies)	evidence (GRADE)		
Efficacy: ongoing pregnancy	200 per 1000	300 per 1000	RR 1.50	76	$\oplus$	We are uncertain about the effect on this	
		(134–660)	(0.67–3.30)	(1 RCT) <sup>1</sup>	VERY LOW a-d	outcome because the certainty of the evidence is very low	
Efficacy: completed without	425 per 1000	399 per 1000	RR 0.94	76	⊕○○○	We are uncertain about the effect on this	
surgical intervention		(221–722)	(0.52–1.70)	(1 RCT) 1	VERY LOW a-d	outcome because the certainty of the evidence is very low	
Efficacy: expulsion time < 24 h	0 per 1000	0 per 1000	Not estimable	(0 studies)	_	No direct evidence identified	
		(0–0)					
Safety: serious adverse events and complications, such as hospitalization, blood transfusion, need for further surgery beyond interventions to complete the removal of products, or death	0 per 1000	<b>0 per 1000</b> (0–0)	Not estimable	(0 studies)	_	No direct evidence identified	
Side-effects: bleeding	0 per 1000	0 per 1000	Not estimable	(0 studies) e	_	No direct evidence identified	
		(0–0)					
Side-effects: pain	950 per 1000	941 per 1000	RR 0.99	76	⊕○○○	We are uncertain about the effect on this	
		(684–1000)	(0.72–1.40)	(1 RCT) <sup>1</sup>	VERY LOW a-d	outcome because the certainty of the evidence is very low	
Side-effects: vomiting	75 per 1000	285 per 1000	RR 3.80	76	$\Theta$	We are uncertain about the effect on this	
		(87–930)	(1.16–12.40)	(1 RCT) <sup>1</sup>	VERY LOW a-d	outcome because the certainty of the evidence is very low	

Outcome	Anticipated absolu	te effect* (95% CI)	Relative effect	No. of participants	Certainty of the	Comment	
	Risk with 600 µg Risk with 400 µg vaginal misoprostol oral misoprostol once every 3 h (for 4 doses)		(95% CI)	participants (studies)	evidence (GRADE)		
Satisfaction	450 per 1000	405 per 1000	RR 0.9	76 (4.DOT) (	⊕○○○	We are uncertain about the effect on this outcome because the certainty of the evidence is	
		(225–720)	(0.5–1.6)	(1 RCT) <sup>1</sup>	VERY LOW b-d	very low	

CI: confidence interval; RCT: randomized controlled trial; RR: risk ratio

### GRADE Working Group grades of evidence

High certainty: We are very confident that the true effect is close to the estimate of the effect.

Moderate certainty: We are moderately confident in the effect estimate; the true effect is likely to be close to the estimate of the effect, but there is a possibility that it is substantially different.

Low certainty:

Our confidence in the effect estimate is limited; the true effect may be substantially different from the estimate of the effect.

Very low certainty:

We have very little confidence in the effect estimate; the true effect is likely to be substantially different from the estimate of effect.

### **Explanations**

- a. High risk for performance and detection bias.
- b. Downgraded one level for inconsistency: only one trial included.
- c. Study included women with estimated gestational age to 56 days only.
- d. Downgraded two levels for imprecision: few events and broad 95% CI.
- e. Blanchard et al. (1) reported 1.2 mean days of heavy bleeding in the intervention group (400 μg oral misoprostol every 3 hours, for 4 doses) versus 2.2 days in the comparison group (600 μg vaginal misoprostol once).

#### References

1. Blanchard K, Shochet T, Coyaji K, Ngoc Nguyen TN, Winikoff B. Misoprostol alone for early abortion: an evaluation of seven potential regimens. Contraception. 2005;72(2):91-7.

<sup>\*</sup> The risk in the intervention group (and its 95% CI) is based on the assumed risk in the comparison group and the relative effect of the intervention (and its 95% CI).

# Comparison 6b: Dose and interval in misoprostol-only regimens: 800 μg orally every 6 hours (2 doses) compared with 600 μg vaginally once

# Summary of Findings table for Comparison 6b

Outcome	Anticipated absolu	ite effect * (95% CI)	Relative effect	No. of	Certainty of the	Comment	
	Risk with 600 µg vaginal misoprostol once	Risk with 800 µg oral misoprostol every 6 h (for 2 doses)	(95% CI)	participants (studies)	evidence (GRADE)		
Efficacy: ongoing pregnancy	200 per 1000	172 per 1000	RR 0.86	64	$\Theta$	We are uncertain about the effect on this	
		(56–518)	(0.28–2.59)	(1 RCT) <sup>1</sup>	VERY LOW a-d	outcome because the certainty of the evidence is very low	
Efficacy: completed without	425 per 1000	476 per 1000	RR 1.12	64	⊕○○○	We are uncertain about the effect on this	
surgical intervention		(259–871)	(0.61–2.05)	(1 RCT) <sup>1</sup>	VERY LOW a-d	outcome because the certainty of the evidence is very low	
Efficacy: expulsion time < 24 h	0 per 1000	0 per 1000	Not estimable	(0 studies)	_	No direct evidence identified	
		(0–0)					
Safety: serious adverse events and complications, such as	0 per 1000 <b>0 per 1000</b>		Not estimable	(0 studies)	_	No direct evidence identified	
hospitalization, blood transfusion, need for further surgery beyond interventions to complete the removal of products, or death		(0–0)					
Side-effects: bleeding	0 per 1000	0 per 1000	Not estimable	(0 studies) e	_	No direct evidence identified	
		(0–0)					
Side-effects: pain	950 per 1000	950 per 1000	RR 1.00	64	⊕○○○	We are uncertain about the effect on this	
		(656–1000)	(0.69–1.45)	(1 RCT) <sup>1</sup>	VERY LOW a-d	outcome because the certainty of the evidence is very low	
Side-effects: vomiting	75 per 1000	215 per 1000	RR 2.87	64	ФООО	We are uncertain about the effect on this	
		(58–788)	(0.77–10.50)	(1 RCT) <sup>1</sup>	VERY LOW a-d	outcome because the certainty of the evidence is very low	

Outcome	Anticipated absolu	te effect* (95% CI)	Relative effect	No. of participants	Certainty of the	Comment	
	Risk with 600 µg vaginal misoprostol once every 6 h (for 2 doses)		(95% CI)	participants (studies)	evidence (GRADE)		
Satisfaction	450 per 1000	455 per 1000	RR 1.01	64	$\Theta$	No direct evidence identified	
		(243–846)	(0.54–1.88)	(1 RCT) <sup>1</sup>	VERY LOW b-d		

CI: confidence interval; RCT: randomized controlled trial; RR: risk ratio

### GRADE Working Group grades of evidence

High certainty: We are very confident that the true effect is close to the estimate of the effect.

Moderate certainty: We are moderately confident in the effect estimate; the true effect is likely to be close to the estimate of the effect, but there is a possibility that it is substantially different.

Low certainty:

Our confidence in the effect estimate is limited; the true effect may be substantially different from the estimate of the effect.

Very low certainty:

We have very little confidence in the effect estimate; the true effect is likely to be substantially different from the estimate of effect.

#### **Explanations**

- a. High risk for performance and detection biases.
- b. Downgraded one level for inconsistency: only one trial included.
- c. Study included women with estimated gestational age to 56 days only.
- d. Downgraded two levels for imprecision: few events and broad 95% CI.
- e. Blanchard et al. (1) reported 1.2 mean days of heavy bleeding for the intervention group (800 μg oral misoprostol every 6 hours, for 2 doses) versus 2.2 days for the comparison group (600 μg vaginal misoprostol once).

#### References

1. Blanchard K, Shochet T, Coyaji K, Ngoc Nguyen TN, Winikoff B. Misoprostol alone for early abortion: an evaluation of seven potential regimens. Contraception. 2005;72(2):91-7.

<sup>\*</sup> The risk in the intervention group (and its 95% CI) is based on the assumed risk in the comparison group and the relative effect of the intervention (and its 95% CI).

Comparison 6c: Dose and interval in misoprostol-only regimens:  $400 \mu g$  orally every 3 hours (4 doses) compared with  $800 \mu g$  orally every 6 hours (2 doses)

# Summary of Findings table for Comparison 6c

Outcome	Anticipated absolu	ute effect * (95% CI)	Relative effect	No. of	Certainty of the	Comment
	Risk with 800 µg oral misoprostol every 6 h (for 2 doses)	Risk with 400 µg oral misoprostol every 3 h (for 4 doses)	(95% CI)	participants (studies)	evidence (GRADE)	
Efficacy: ongoing pregnancy	167 per 1000	292 per 1000	RR 1.75	60	$\Theta$	We are uncertain about the effect on this
		(103–817)	(0.62–4.90)	(1 RCT) <sup>1</sup>	VERY LOW a-d	outcome because the certainty of the evidence is very low
Efficacy: completed without	500 per 1000	420 per 1000	RR 0.84	60	⊕○○○	We are uncertain about the effect on this
surgical intervention		(220–795)	(0.44–1.59)	(1 RCT) <sup>1</sup>	VERY LOW a-d	outcome because the certainty of the evidence is very low
Efficacy: expulsion time < 24 h	0 per 1000	0 per 1000	Not estimable	(0 studies)	_	No direct evidence identified
		(0–0)				
Safety: serious adverse events and complications, such as hospitalization, blood transfusion, need for further surgery beyond interventions to complete the removal of products, or death	0 per 1000	<b>0 per 1000</b> (0-0)	Not estimable	(0 studies)	_	No direct evidence identified
Side-effects: bleeding	0 per 1000	<b>0 per 1000</b> (0–0)	Not estimable	(0 studies) e	_	No direct evidence identified
Side-effects: pain	958 per 1000	<b>958 per 1000</b> (661–1000)	<b>RR 1.00</b> (0.69–1.45)	60 (1 RCT) <sup>1</sup>	⊕○○○ VERY LOW a-d	We are uncertain about the effect on this outcome because the certainty of the evidence is very low

Outcome	Anticipated absolu	ute effect * (95% CI)	Relative effect	No. of	Certainty of the	Comment
	Risk with 800 µg oral misoprostol every 6 h (for 2 doses)	Risk with 400 µg oral misoprostol every 3 h (for 4 doses)	(95% CI)	participants (studies)	evidence (GRADE)	
Side-effects: vomiting	250 per 1000	<b>333 per 1000</b> (140–780)	<b>RR 1.33</b> (0.56–3.12)	60 (1 RCT) <sup>1</sup>	⊕○○○ VERY LOW a-d	We are uncertain about the effect on this outcome because the certainty of the evidence is very low
Satisfaction	458 per 1000	<b>408 per 1000</b> (211–788)	RR 0.89 (0.46–1.72)	60 (1 RCT) <sup>1</sup>	⊕○○○ VERYLOW b-d	We are uncertain about the effect on this outcome because the certainty of the evidence is very low

CI: confidence interval; RCT: randomized controlled trial; RR: risk ratio

High certainty: We are very confident that the true effect is close to the estimate of the effect.

Moderate certainty: We are moderately confident in the effect estimate; the true effect is likely to be close to the estimate of the effect, but there is a possibility that it is substantially different.

Low certainty: Our confidence in the effect estimate is limited; the true effect may be substantially different from the estimate of the effect.

Very low certainty: We have very little confidence in the effect estimate; the true effect is likely to be substantially different from the estimate of effect.

### **Explanations**

- a. High risk for performance and detection bias.
- b. Downgraded one level for inconsistency: only one trial included.
- c. Study included women with estimated gestational age to 56 days only.
- d. Downgraded two levels for imprecision: few events and broad 95% CI.
- e. Blanchard et al. (1) reported 1.2 mean days of heavy bleeding for the intervention group (800 μg oral misoprostol every 6 hours, for 2 doses) versus 2.1 days for the comparison group (400 μg oral misoprostol every 3 hours, for 4 doses).

#### References

1. Blanchard K, Shochet T, Coyaji K, Ngoc Nguyen TN, Winikoff B. Misoprostol alone for early abortion: an evaluation of seven potential regimens. Contraception. 2005;72(2):91-7.

<sup>\*</sup> The risk in the intervention group (and its 95% CI) is based on the assumed risk in the comparison group and the relative effect of the intervention (and its 95% CI).

## II. Determine appropriate regimens for early medical abortion provision at > 63 days and up to 84 days of gestation

Comparison 1: Combination regimens (mifepristone plus misoprostol) compared with misoprostol-only regimens

One study was identified that compared mifepristone plus misoprostol with misoprostol alone for medical abortions at > 63 days and up to 84 days gestational age. For the critical outcome, ongoing pregnancy, there was a serious discrepancy in the numbers reported. In Table 2 of the paper by Dalenda et al. (1), 7/73 women in the combined group versus 4/49 in the misoprostol-only group are reported as having curettage for persistent gestational sac (P = 0.56). In the text below the table, the authors report that 7/73 women in the combined group versus 9/49 women in the misoprostol-only group had curettage for continuing pregnancy. We attempted to contact the authors by email, phone and social media multiple times to clarify these numbers but received no answer. The study was thus excluded as we could not reliably determine the critical outcome.

#### Reference

1. Dalenda C, Ines N, Fathia B, Malika A, Bechir Z, Ezzeddine S, et al. Two medical abortion regimens for late first-trimester termination of pregnancy: a prospective randomized trial. Contraception. 2010;81(4):323-7.

Comparison 2: Doses of misoprostol in combination regimens (mifepristone plus misoprostol)

No studies were identified that compared different doses of misoprostol in combined regimens while maintaining the same route of administration. One study was identified that compared different doses of misoprostol but the route was also varied. This paper is discussed in the following GRADE profile, for Comparison 3.

#### Reference

1. Hamoda H, Ashok PW, Flett GM, Templeton A. A randomised controlled trial of mifepristone in combination with misoprostol administered sublingually or vaginally for medical abortion up to 13 weeks of gestation. BJOG. 2005;112(8):1102-8.

# Comparison 3: Doses and routes of misoprostol in combination regimens (mifepristone plus misoprostol): $800 \, \mu g$ vaginal compared with $600 \, \mu g$ sublingual

### Summary of Findings table for Comparison 3

Outcome	Anticipated absol	ute effect * (95% CI)	Relative effect	No. of	Certainty of the	Comment
	Risk with 600 µg sublingual misoprostol	Risk with 800 µg vaginal misoprostol	(95% CI)	participants (studies)	evidence (GRADE)	
Efficacy: ongoing pregnancy	19 per 1000	0 per 1000	Not estimable	192	$\oplus\bigcirc\bigcirc\bigcirc\bigcirc$	Our confidence in the direct estimate is limited;
		(0–0)	(1 RCT) <sup>1</sup>		VERY LOW a-c	the true effect may be substantially different from the estimate of the effect
Efficacy: completed without surgical intervention	971 per 1000	969 per 1000	OR 0.91	192	ФООО	Our confidence in the direct estimate is limited;
		(932–986)	(0.40–2.04)	(1 RCT) <sup>1</sup>	VERY LOW a-c	the true effect may be substantially different from the estimate of the effect
Efficacy: expulsion time	0 per 1000	0 per 1000	Not estimable	(0 studies)	_	No direct evidence identified
		(0–0)				
Safety: serious adverse events	0 per 1000	0 per 1000	Not estimable	(0 studies)	_	No direct evidence identified
and complications, such as hospitalization, blood transfusion, need for further surgery beyond interventions to complete the removal of products, or death		(0–0)				
Side-effects: bleeding, pain and	0 per 1000	0 per 1000	Not estimable	(0 studies)	_	No direct evidence identified
vomiting		(0–0)				
Satisfaction	0 per 1000	0 per 1000	Not estimable	(0 studies)	_	No direct evidence identified
		(0–0)				

CI: confidence interval; OR: odds ratio; RCT: randomized controlled trial

<sup>\*</sup> The risk in the intervention group (and its 95% CI) is based on the assumed risk in the comparison group and the relative effect of the intervention (and its 95% CI).

High certainty: We are very confident that the true effect is close to the estimate of the effect.

Moderate certainty: We are moderately confident in the effect estimate; the true effect is likely to be close to the estimate of the effect, but there is a possibility that it is substantially different.

Low certainty:

Our confidence in the effect estimate is limited; the true effect may be substantially different from the estimate of the effect.

Very low certainty:

We have very little confidence in the effect estimate; the true effect is likely to be substantially different from the estimate of effect.

### **Explanations**

a. Downgraded one level for inconsistency: only one trial included.

b. Indirectness of evidence: population includes women up to 91 days gestational age.

c. Downgraded two levels for imprecision: population includes women up to 91 days gestational age, few events and broad 95% CI.

#### References

1. Hamoda H, Ashok PW, Flett GM, Templeton A. A randomised controlled trial of mifepristone in combination with misoprostol administered sublingually or v aginally for medical abortion up to 13 weeks of gestation. BJOG. 2005;112(8):1102-8.

# Comparison 4a: Doses in misoprostol-only regimens: $200\,\mu g$ compared with $400\,\mu g$ vaginal misoprostol

# **Summary of Findings for Comparison 4**

Outcomes	Anticipated absolu	te effects * (95% CI)	Relative effect	No. of	Certainty of the	Comments
	Risk with 400 μg vaginal misoprostol	Risk with 200 µg vaginal misoprostol	(95% CI)	participants (studies)	evidence (GRADE)	
Efficacy: ongoing pregnancy	0 per 1000	<b>0 per 1000</b> (0–0)	<b>RR 7.00</b> (0.37–132.10)	100 (1 RCT) <sup>1</sup>	⊕○○○ VERY LOW a-c	Our confidence in the direct estimate is limited; the true effect may be substantially different from the estimate of the effect Khazardoost et al. (1) reported ongoing pregnancy as "treatment failure"
Efficacy: completed without surgical intervention	542 per 1000	<b>493 per 1000</b> (390–612)	<b>RR 0.91</b> (0.72–1.13)	203 (2 RCTs) <sup>1,2,d</sup>	⊕⊕○○ LOW b,e	Our confidence in the effect estimate is limited; the true effect may be substantially different from the estimate of the effect Khazardoost et al. (1) did not define complete abortion and did not report what they did with those who needed additional intervention
Efficacy: expulsion time from initiation of treatment	459 per 1000	<b>363 per 1000</b> (239–551)	<b>RR 0.79</b> (0.52–1.20)	334 (2 RCTs) <sup>1,2,d</sup>	⊕⊕⊖⊖ LOW b,e	Our confidence in the effect estimate is limited; the true effect may be substantially different from the estimate of the effect
Safety: serious adverse events and complications, such as hospitalization, blood transfusion, need for further surgery beyond interventions to complete the removal of products, or death	0 per 1000	<b>0 per1000</b> (0–0)	Not estimable	(0 studies)	_	No direct evidence identified Serious adverse events outcomes not reported by different doses
Side-effects: nausea	40 per 1000	8 per 1000 (4-162)	<b>RR 0.20</b> (0.10–4.06)	100 (1 RCT) <sup>1</sup>	⊕○○○ VERY LOW a,b,f	Our confidence in the direct estimate is limited; the true effect may be substantially different from the estimate of the effect
Side-effects: vomiting	40 per 1000	<b>40 per 1000</b> (6–273)	<b>RR 1.00</b> (0.15–6.82)	100 (1 RCT) <sup>1</sup>	⊕○○○ VERY LOW a,b	Our confidence in the direct estimate is limited; the true effect may be substantially different from the estimate of the effect
Side-effects: fever	280 per 1000	<b>101 per 1000</b> (39–258)	<b>RR 0.36</b> (0.14–0.92)	100 (1 RCT) <sup>1</sup>	⊕○○○ VERY LOW a,b	Our confidence in the direct estimate is limited; the true effect may be substantially different from the estimate of the effect
Side-effects: diarrhoea	20 per 1000	<b>7 per 1000</b> (0–160)	<b>RR 0.33</b> (0.01–7.99)	100 (1 RCT) <sup>1</sup>	⊕○○○ VERY LOW a,b	Our confidence in the direct estimate is limited; the true effect may be substantially different from the estimate of the effect

Side-effects: severe pelvic pain	280 per 1000	81 per 1000 (28–227)	<b>RR 0.29</b> (0.10–0.81)	100 (1 RCT) <sup>1</sup>	⊕⊖⊖ VERY LOW a,b	Our confidence in the direct estimate is limited; the true effect may be substantially different from the estimate of the effect
Satisfaction	0 per 1000	0 per 1000	Not estimable	(0 studies)	_	No direct evidence identified. Satisfaction/acceptability outcomes not reported
		(0–0)				by different doses.

CI: confidence interval: RCT: randomized controlled trial: RR: risk ratio

High certainty: We are very confident that the true effect is close to the estimate of the effect.

Moderate certainty: We are moderately confident in the effect estimate; the true effect is likely to be close to the estimate of the effect, but there is a possibility that it is substantially different.

Low certainty: Our confidence in the effect estimate is limited; the true effect may be substantially different from the estimate of the effect.

Very low certainty: We have very little confidence in the effect estimate; the true effect is likely to be substantially different from the estimate of effect.

### **Explanations**

- a. Khazardoost et al. (1) downgraded to "serious", with high risk of bias for performance and detection biases, and unclear risk of bias for selection and other biases.
- b. Downgraded two levels for indirect evidence: around half of the patients from the study had early pregnancy failures.
- c. Downgraded one level for imprecision: few events and wide CI.
- d. One RCT and one prospective cohort study.
- e. Downgraded one level: Bugalho et al. (2) had a high risk of bias for selection bias and reporting bias; Khazardoost (1) had a high risk of bias for performance bias and detection bias.
- f. Downgraded one level: few events.

#### References

- 1. Khazardoost S, Hantoushzadeh S, Madani MM. A randomised trial of two regimens of vaginal misoprostol to manage termination of pregnancy of up to 16 weeks. Aust N Z J Obstet Gynaecol. 2007;47(3):226-9.
- 2. Bugalho A, Faúndes A, Jamisse L, Usfá M, Maria E, Bique C. Evaluation of the effectiveness of vaginal misoprostol to induce first trimester abortion. Contraception. 1996;53(4):244-6.

<sup>\*</sup> The risk in the intervention group (and its 95% CI) is based on the assumed risk in the comparison group and the relative e flect of the intervention (and its 95% CI).

# Forest plots for Comparison 4a

Analysis 1. Efficacy: completed without additional surgical intervention

	200 n	ng	400 n	ng		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% CI	M-H, Random, 95% CI
Bugalho 1996	14	57	14	46	12.6%	0.81 [0.43, 1.52]	<del></del>
Khazardoost 2007	35	50	38	50	87.4%	0.92 [0.73, 1.17]	<b>-</b>
Total (95% CI)		107		96	100.0%	0.91 [0.72, 1.13]	•
Total events	49		52				
Heterogeneity: Tau <sup>2</sup> = 0.00; Chi <sup>2</sup> = 0.18, df = 1 (P = 0.67); $I^2$ = 09 Test for overall effect: $Z$ = 0.87 (P = 0.39)					7); I² = 09	6	0.01 0.1 1 10 100 Favours 200 mg Favours 400 mg

# Analysis 2. Efficacy: expulsion time

	200 n	ng	400 n	ng	Risk Ratio			Risk Ratio	
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Random, 95% CI		M-H, Random, 95% CI	
Bugalho 1996	22	101	46	133	40.8%	0.63 [0.41, 0.98]		-	
Khazardoost 2007	35	50	38	50	59.2%	0.92 [0.73, 1.17]		<b>*</b>	
Total (95% CI)		151		183	100.0%	0.79 [0.52, 1.20]		•	
Total events	57		84						
Heterogeneity: Tau <sup>2</sup> = 0.06; Chi <sup>2</sup> = 2.92, df = 1 (P = 0.09); $I^2$ = 66% Test for overall effect: $Z$ = 1.11 (P = 0.27)					9); l² = 66	%	0.01	0.1 1 10 Favours 200 mg Favours 400 mg	100

## Comparison 4b: Doses in misoprostol-only regimens: single-dose versus multiple-dose misoprostol: excluded study

van Bogaert and Misra (1) also compared different regimens of misoprostol only for late first-trimester abortion. This study compared 400 µg of sublingual misoprostol followed by vaginally or orally administered 800 µg misoprostol every 8 hours. Complete abortion rates were higher among the vaginal group than among the oral group (93.4% compared with 86.9%) and the only factor associated with need for repeat misoprostol doses in a linear regression analysis was increasing gestational age. This study was excluded from the GRADE table as it reported the whole first trimester as gestational age, so we were unable to use the data to answer questions specific to our gestational age of interest.

#### References

1.	van Bogaert LJ, Misra A. Anthropometric characteristics and success rates of oral or vaginal misoprostol for pregnancy termination in the first and second trimesters. Int J
	Gynaecol Obstet. 2010;109(3):213-5.

Comparison 5: Combination regimen of mifepristone (200 mg oral) plus misoprostol (800 μg vaginal) compared with vacuum aspiration

# Summary of Findings table for Comparison 5

Outcome	Anticipated absolute effect * (95% CI)		Relative effect (95% CI)	No. of participants (studies)	Certainty of the evidence	Comment
	Risk with vacuum aspiration	Risk with 200 mg oral mifepristone and 800 µg vaginal misoprostol			(GRADE)	
Efficacy: ongoing pregnancy	0 per 1000	<b>0 per 1000</b> (0–0)	<b>OR 0.12</b> (0.01–2.30)	445 (1 RCT) <sup>1</sup>	⊕⊕○○ LOW a-c	There may be little or no difference in the number of women with ongoing pregnancies who had medical or surgical abortions
Efficacy: completed without surgical intervention	983 per 1000	<b>984 per 1000</b> (979–988)	<b>OR 1.03</b> (0.80–1.36)	445 (1 RCT) <sup>1</sup>	LOM a'c	There may be little or no difference in the number of women with surgical intervention to complete termination of pregnancy
Efficacy: expulsion time from initiation of treatment	0 per 1000	0 per 1000 (0-0)	Not estimable	(0 studies)	_	No direct evidence identified
Safety: serious adverse events (transfusion)	4 per 1000	<b>10 per 1000</b> (0–205)	<b>OR 2.52</b> (0.10–62.10)	445 (1 RCT) <sup>1</sup>	⊕⊕○○ LOW a,c	There may be little or no difference in the number of women with transfusions who had medical or surgical abortions
Side-effects: nausea	278 per 1000	<b>133 per 1000</b> (94–185)	<b>OR 0.40</b> (0.27–0.59)	366 (1 RCT) <sup>1</sup>	⊕⊕○○ LOW a,c	There may be little or no difference in the number of women with nausea who had medical or surgical abortions
Side-effects: vomiting	83 per 1000	<b>15 per 1000</b> (8–27)	<b>OR 0.17</b> (0.09–0.30)	366 (1 RCT) <sup>1</sup>	⊕⊕○○ LOW a,c	There may be little or no difference in the number of women with vomiting who had medical or surgical abortions
Side-effects: diarrhoea	44 per 1000	<b>5 per 1000</b> (2–10)	<b>OR 0.10</b> (0.05–0.22)	366 (1 RCT) <sup>1</sup>	⊕⊕⊕○ MODERATE a,c	There is probably little or no difference in the number of women with diarrhoea among those receiving medical versus surgical abortion
Satisfaction	792 per 1000	<b>811 per 1000</b> (727–874)	<b>OR 1.13</b> (0.70–1.82)	163 (1 RCT) <sup>1</sup>	⊕○○○ VERY LOW a,c,d	We are uncertain about the effect on this outcome because the certainty of the evidence is very low

CI: confidence interval; OR: odds ratio; RCT: randomized controlled trial

<sup>\*</sup> The risk in the intervention group (and its 95% CI) is based on the assumed risk in the comparison group and the relative effect of the intervention (and its 95% CI).

High certainty: We are very confident that the true effect is close to the estimate of the effect.

Moderate certainty: We are moderately confident in the effect estimate; the true effect is likely to be close to the estimate of the effect, but there is a possibility that it is substantially different.

Low certainty:

Our confidence in the effect estimate is limited; the true effect may be substantially different from the estimate of the effect.

Very low certainty:

We have very little confidence in the effect estimate; the true effect is likely to be substantially different from the estimate of effect.

### **Explanations**

a. Downgraded two levels because of risk of bias, including partial randomization, unblinded study and unclear randomization across outcomes reported.

- b. Partially randomized patient preference trial. Those who chose their treatment appeared similar on demographic data and gesta tional age. Risk of bias high due to partial randomization and not all outcomes being reported by whether they were randomized or not, due to unclear blinding of outcome assessment and due to being a non-blinded study.
- c. Downgraded two levels due to imprecision: small numbers and broad CI.
- d. Downgraded for risk of bias: only 35% of women in the medical abortion group and 53.3% in surgical abortion group answered the question on preferred future method of abortion.

#### Reference

1. Ashok PW, Kidd A, Flett GM, Fitzmaurice A, Graham W, Templeton A. A randomized comparison of medical abortion and surgical vacuum aspiration at 10 –13 weeks gestation. Hum Reprod. 2002;17(1):92-8.

# Comparison 6a: Management of induced abortion in a health-care facility compared with self-management/home care

# Summary of Findings table for Comparison 6a

Outcome	Anticipated absolute effect ' (95% CI)		Relative effect (95% CI)	participants	Certainty of the evidence	Comment	
	Risk with home care	Risk with health-care facility		(studies)	(GRADE)		
Efficacy: ongoing pregnancy	_	_	_	_	_	No direct evidence identified Efficacy outcomes not reported by location	
Efficacy: completed without surgical intervention	_	_	_	_	_	No direct evidence identified Efficacy outcomes not reported by location	
Efficacy: expulsion time from initiation of treatment	_	_	_	_	_	No direct evidence identified Efficacy outcomes not reported by location	
Safety: serious adverse events and complications, such as hospitalization, blood transfusion, need for further surgery beyond interventions to complete the removal of products, or death	_	-	_	-	_	No direct evidence identified Safety outcomes not reported by location	
Side-effects: bleeding	_	_	_	_	_	No direct evidence identified Side-effect outcomes not reported by location	
Side-effects: pain	_	_	_	_	_	No direct evidence identified Side-effect outcomes not reported by location	
Side-effects: vomiting	_	_	_	_	_	No direct evidence identified Side-effect outcomes not reported by location	
Satisfaction	98 per 100	<b>100 per 100</b> (20–100)	<b>RR 1.00</b> (0.98–1.03)	285 (1 observational study) 1	⊕○○○ VERY LOW a-c	Our confidence in the direct estimate is limited; the true effect may be substantially different from the estimate of the effect Women chose their treatment group, which may impact satisfaction	

CI: confidence interval; RR: risk ratio

<sup>\*</sup> The risk in the intervention group (and its 95% CI) is based on the assumed risk in the comparison group and the relative effect of the intervention (and its 95% CI).

High certainty: We are very confident that the true effect is close to the estimate of the effect.

Moderate certainty: We are moderately confident in the effect estimate; the true effect is likely to be close to the estimate of the effect, but there is a possibility that it is substantially different.

Low certainty:

Our confidence in the effect estimate is limited; the true effect may be substantially different from the estimate of the effect.

Very low certainty:

We have very little confidence in the effect estimate; the true effect is likely to be substantially different from the estimate of effect.

### **Explanations**

a. Downgraded two levels for high risk of bias (selection bias, performance bias, detection bias and reporting bias) in five of the seven domains.

- b. Downgraded one level for indirectness: only one small study identified.
- c. Downgraded one level for imprecision: few events and wide 95% CI.

#### Reference

1. Plataisa I, Tsereteli T, Grebennikova G, Lotarevich T, Winikoff B. Prospective study of home use of mifepristone and misoprostol for medical abortion up to 10 weeks of pregnancy in Kazakhstan. Int J Gynaecol Obstet. 2016. 134(3):268-71.

### Comparison 6b: Management of induced abortion in a health-care facility compared with self-management/home care: excluded studies

Two additional studies investigated outpatient medical abortion up to 70 days gestation; the comparison, however, was of an earlier gestational week (57–63 days) versus the next gestational week (64–70 days). Both studies were therefore excluded from the GRADE table.

Bracken et al. *(1)* compared the effectiveness and acceptability of outpatient medical abortion (200 mg mifepristone followed 24–48 hours later by 400 µg sublingual misoprostol) at 64–70 days versus medical abortion at 57–63 days gestational age. A total of 714 women were enrolled across four countries (Georgia, India, Tunisia and Ukraine). No significant difference in abortion efficacy was noted between the earlier and later gestational age groups, with 94.8% and 91.9% (risk ratio 0.79, confidence interval 0.61–1.04) reporting complete abortions, respectively. The rate of surgical intervention for excessive or prolonged bleeding was significantly greater for the later gestational age (2.5% versus 0.5% for the earlier gestational age). No significant difference was noted between groups in terms of serious adverse events, such as the need for blood transfusion (one in each group) or hospital admission (one in the earlier and two in the later gestational age group).

Winikoff et al. (2) investigated the effectiveness and acceptability of outpatient medical abortion (200 mg mifepristone followed 24–48 hours later by 800 µg buccal misoprostol) at gestational ages 57–63 days compared with 64–70 days in their trial in the United States of America enrolling 729 women. They also reported side-effects (chills, fever, vomiting, nausea, diarrhoea and heavy bleeding) with no significant differences between the two groups except for more vomiting in the later than in the earlier gestational age group (45.7% versus 35.8%, P = 0.008).

#### References

- 1. Bracken H, Dabash R, Tsertsvadze G, Posohova S, Shah M, Hajri S, et al. A two-pill sublingual misoprostol outpatient regimen following mifepristone for medical abortion through 70 days' LMP: a prospective comparative open-label trial. Contraception. 2014;89(3):181-6.
- 2. Winikoff B, Dzuba IG, Chong E, Goldberg AB, Lichtenberg ES, Ball C, et al. Extending outpatient medical abortion services through 70 days of gestational age. Obstet Gynecol. 2012;120(5):1070-6.