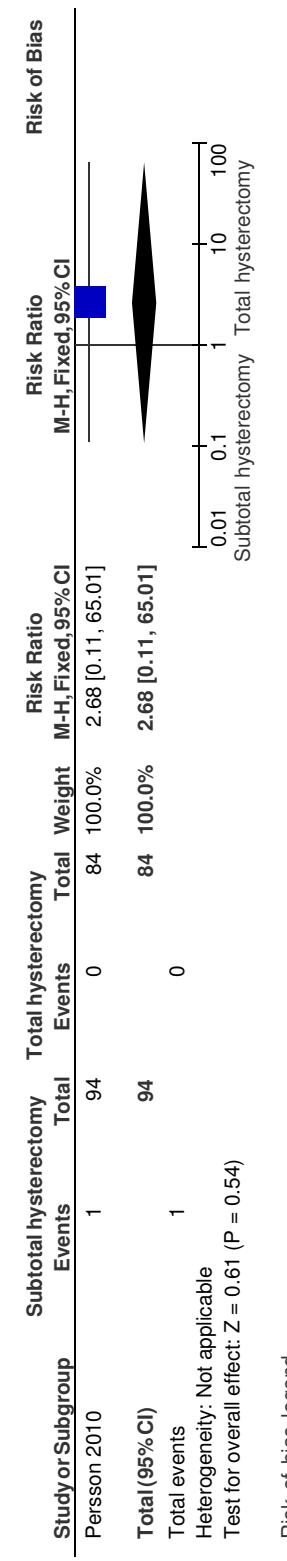


1 Fokuseret spørgsmål 1 (PICO1). Subtotal hysterektomi sammenlignet med total hysterektomi ved benign sygdom.

1.1 Reoperation pga. postoperativ intraabdominal blødning. -*Abdominal hysterektomi*. (Repeat surgery, postoperative intraabdominal bleeding)



National Klinisk retningslinje om hysterektomi (fremelse af livmoderen) ved godartet...

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1.2 Stressinkontinens indenfor 2 år postoperativt. -Abdominal + laparoskopisk hysterektomi (Stress urinary incontinence within 2 years post surgery)

Study or Subgroup	Subtotal hyst Events	Total hyst Total Events	Weight	Risk Ratio M-H, Fixed, 95% CI	Risk Ratio M-H, Fixed, 95% CI	Risk of Bias
1.2.1 Abdominal surgery						
Gimbel 2003	8	136	3	140 11.8%	2.75 [0.74, 10.13]	
Learman 2003	8	61	3	64 11.7%	2.80 [0.78, 10.06]	
Persson 2010	2	94	2	85 8.4%	0.90 [0.13, 6.28]	
Thakar 2002	12	124	12	122 48.5%	0.98 [0.46, 2.10]	
Subtotal (95% CI)	415		411	80.4%	1.50 [0.87, 2.58]	
Total events	30	20				

Heterogeneity: Chi² = 3.18, df = 3 (P = 0.36); I² = 6%
Test for overall effect: Z = 1.46 (P = 0.14)

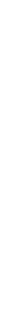
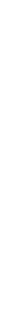
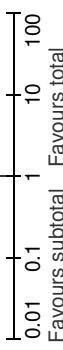
1.2.2 Laparoscopic surgery

Morelli 2007	5	63	5	66 19.6%	1.05 [0.32, 3.45]
Subtotal (95% CI)	5			66 19.6%	1.05 [0.32, 3.45]
Total events	5		5		
Heterogeneity: Not applicable					
Test for overall effect: Z = 0.08 (P = 0.94)					

Total (95% CI)

Total events	478	477	100.0%	1.41 [0.86, 2.31]
Total events	35	25		

Heterogeneity: Chi² = 3.40, df = 4 (P = 0.49); I² = 0%
Test for overall effect: Z = 1.37 (P = 0.17)
Test for subgroup differences: Chi² = 0.29, df = 1 (P = 0.59), I² = 0%
Risk of bias legend



National Klinisk retningslinje om hysterektomi (fjernelse af livmoderen) ved godartet...

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1.3 Tilfredshed med sex indenfor 2 år postoperativt. -*Abdominal hysterektomi*. (Satisfaction with sex within 2 years post surgery)

Study or Subgroup	Subtotal hyst Events	Total hyst Events	Total	Weight	Risk Ratio M-H, Fixed, 95% CI	Risk Ratio M-H, Fixed, 95% CI	Risk of Bias
1.3.1 Abdominal surgery							
Gimbel 2003	86	137	95	140	57.0%	0.93 [0.78, 1.10]	
Thakar 2002	82	91	86	43.0%	1.12 [0.99, 1.27]		
Subtotal (95% CI)	228	228	226	100.0%	1.01 [0.91, 1.13]		
Total events	168	164					

Heterogeneity: Chi² = 3.76, df = 1 (P = 0.05); I² = 73%

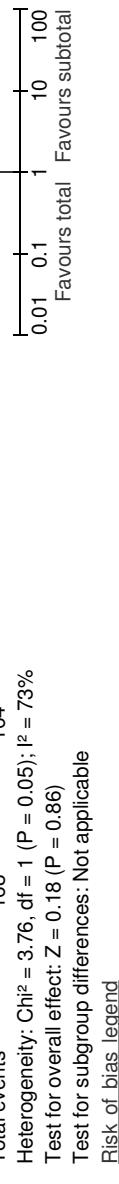
Test for overall effect: Z = 0.18 (P = 0.86)

1.3.2 Laparoscopic surgery

Subtotal (95% CI)	0	0	0	Not estimable
Total events	0			
Heterogeneity: Not applicable				
Test for overall effect: Not applicable				

Total (95% CI)	228	226	100.0%	1.01 [0.91, 1.13]
Total events	168	164		
Heterogeneity: Chi ² = 3.76, df = 1 (P = 0.05); I ² = 73%				
Test for overall effect: Z = 0.18 (P = 0.86)				
Test for subgroup differences: Not applicable				

Risk of bias legend



National Klinisk retningslinje om hysterektomi (fjernelse af livmoderen) ved godartet...

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1.4 Smerter ved sex indenfor 2 år postoperativt. -Abdominal + laparoskopisk hysterektomi (Prevalence of pain during sex within 2 years post surgery)

Study or Subgroup	Subtotal hyst Events	Total hyst Events	Total Weight	Risk Ratio M-H, Fixed, 95% CI	Risk Ratio M-H, Fixed, 95% CI	Risk of Bias
1.4.1 Abdominal surgery						
Gimbel 2003	13	137	9	140	41.6%	1.48 [0.65, 3.34]
Thakar 2002	6	91	12	84	58.4%	0.46 [0.18, 1.17]
Subtotal (95% CI)	228	224	100.0%	0.88 [0.49, 1.59]		
Total events	19	21				

Heterogeneity: Chi² = 3.37, df = 1 (P = 0.07); I² = 70%

Test for overall effect: Z = 0.41 (P = 0.68)

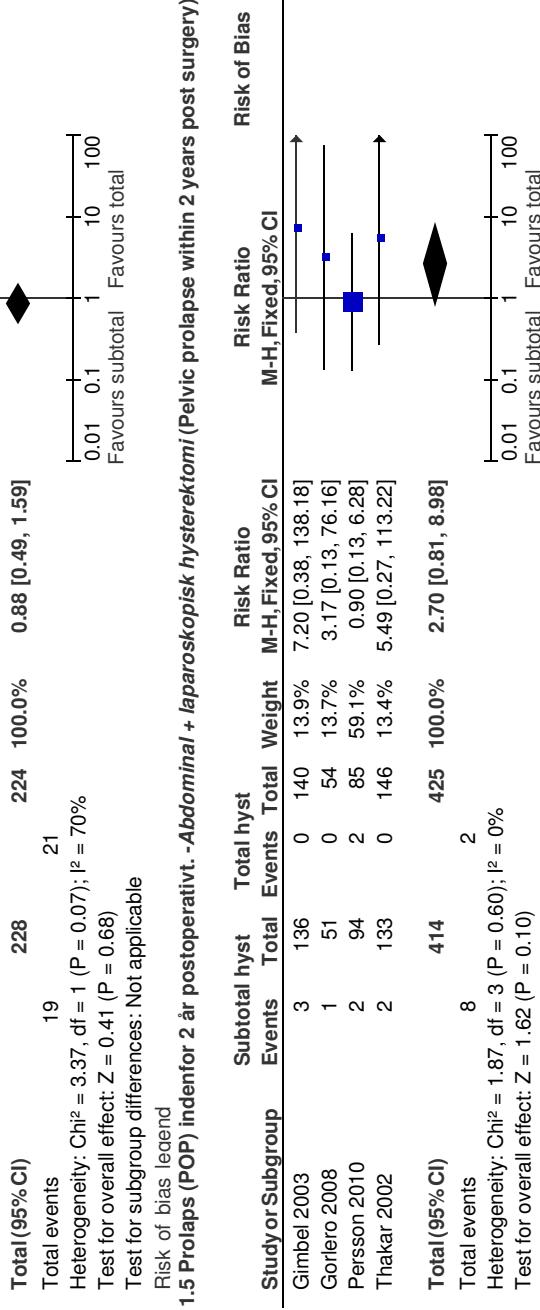
1.4.2 Laparoscopic surgery

Study or Subgroup	Subtotal (95% CI)	Total events	Total Weight	Risk Ratio M-H, Fixed, 95% CI	Risk Ratio M-H, Fixed, 95% CI	Risk of Bias
						Not estimable
		0	0			

Heterogeneity: Not applicable

Test for overall effect: Not applicable

1.5 Prolaps (POP) indenfor 2 år postoperativt. -Abdominal + laparoskopisk hysterektomi (Pelvic prolapse within 2 years post surgery)

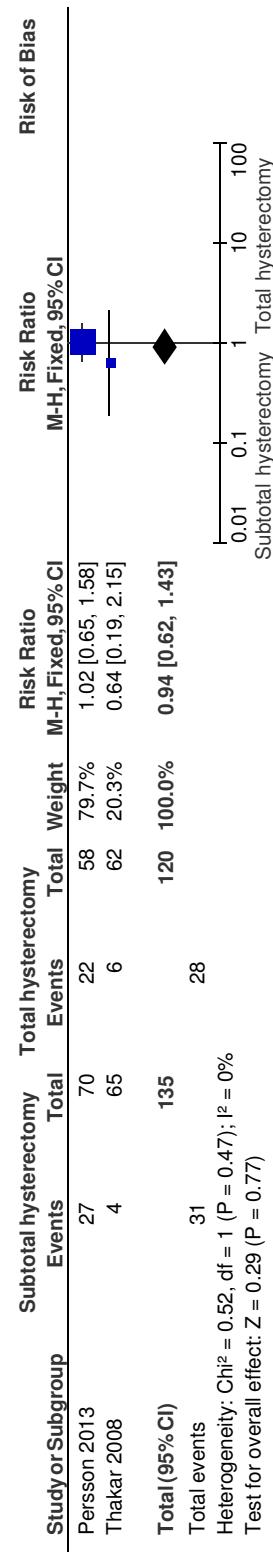


Risk of bias legend

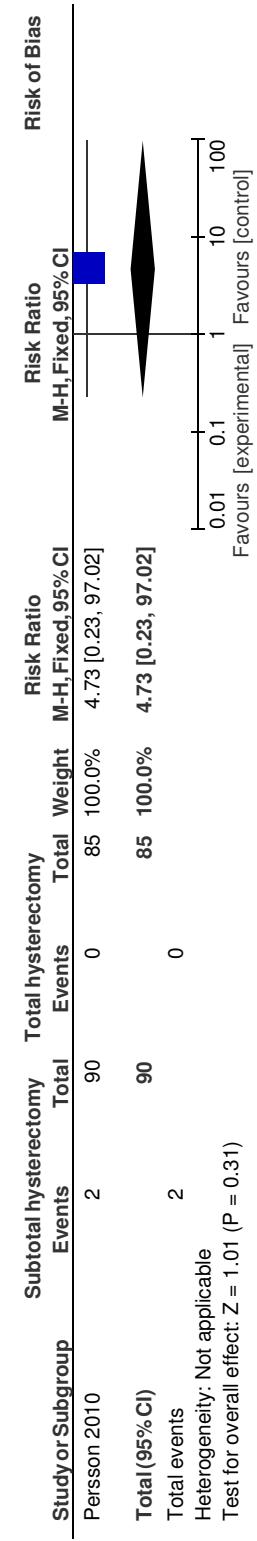
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1.6 Prolaps (POP ≥ grad 2) 7-11 år postoperativt. – *Abdominal hysterektomi*. (Pelvic prolapse ≥ stage 2, 7-11 years post surgery)



1.7 Cervikal dysplasi indenfor 12 mdr. postoperativt. – *Abdominal hysterektomi*.



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1.8 Cyklisk vaginalblødning Indenfor 2 år postoperativt. -*Abdominal + laparoskopisk hysterektomi* (Cyclical bleeding within 2 years post surgery)

A forest plot showing the Risk Ratio (M-H, Fixed) and 95% CI for each study included in the meta-analysis. The y-axis represents the 'Risk of Bias'.

Study or Subgroup	Subtotal hyst Events	Total hyst Events	Weight	Risk Ratio M-H, Fixed, 95% CI	Risk Ratio M-H, Fixed, 95% CI
Gimbel 2003	27	136	0	11.1% [349, 9, 83]	[349, 9, 83]
Gorlero 2008	4	51	0	10.9% [0, 53, 172.49]	[0, 53, 172.49]
Learman 2003	4	61	2	43.8% [-2.10 [0.40, 11.04]	[-2.10 [0.40, 11.04]
Persson 2010	18	94	1	23.6% [16.28 [2.22, 119.33]	[16.28 [2.22, 119.33]
Thakar 2002	9	133	0	10.7% [20.84 [1.22, 354.67]	[20.84 [1.22, 354.67]



Risk of bias legend

1.9 Operationstid (min.) -*Abdominal hysterektomi*. (Operating time (mins))

Study or Subgroup	Subtotal hyst			Total hyst			Mean Difference IV, Fixed, 95% CI	Mean Difference NI, Fixed, 95% CI	Risk of Bias
	Mean	SD	Total	Mean	SD	Total			
Gorlero 2008	53	24	51	66	31	54	13.0%	-13.00 [-23.57, -2.43]	-
Learman 2003	113	35	67	123	46	65	7.4%	-10.00 [-23.97, 3.97]	-
Persson 2010	70	23	94	80	28	84	25.2%	-10.00 [-17.58, -2.42]	-
Thakar 2002	59.5	20.6	133	71.1	23.4	146	54.4%	-11.60 [-16.76, -6.44]	+



Risk of bias legend

1.10 Operationstid (min.) -*Laparoskopisk hysterektomi*. (Operating time (mins))

A forest plot with 'Risk of Bias' on the y-axis (ranging from -100 to 100) and 'Study or Subgroup' on the x-axis. The plot shows one study, Morelli 2007, with a mean difference of 80 (95% CI [-14.80, 4.80]). A diamond at the bottom represents the overall effect size of 71 (95% CI [-14.80, 4.80]).

Study or Subgroup	Subtotal hyst Mean	SD	Total Mean	SD	Total Weight	Mean Difference IV, Fixed, 95% CI	Mean Difference IV, Fixed, 95% CI	Risk of Bias	
Morelli 2007	80	33.7	71	85	25.1	70	100.0%	-5.00 [-14.80, 4.80]	
Total (95% CI)						71		71 (95% CI [-14.80, 4.80])	

Heterogeneity: Not applicable
Test for overall effect: Z = 1.00 ($P = 0.32$)

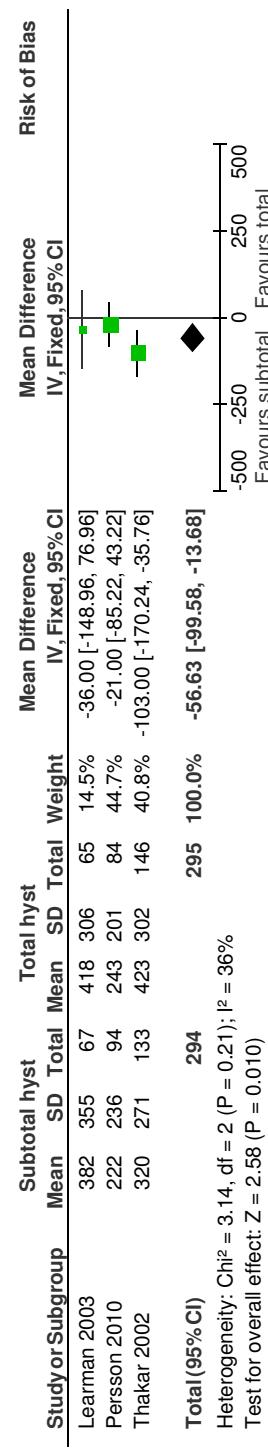


Risk of bias legend

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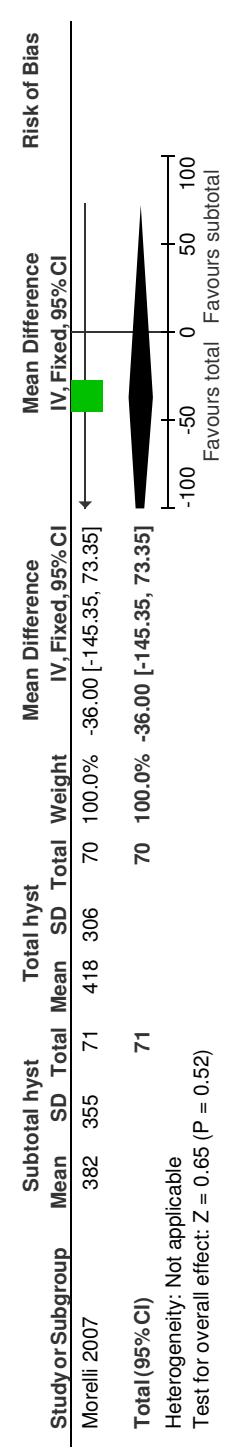
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1.13 Peroperativ blødning (ml) -Abdominal hysterektomi.(Blood loss during surgery (mls))



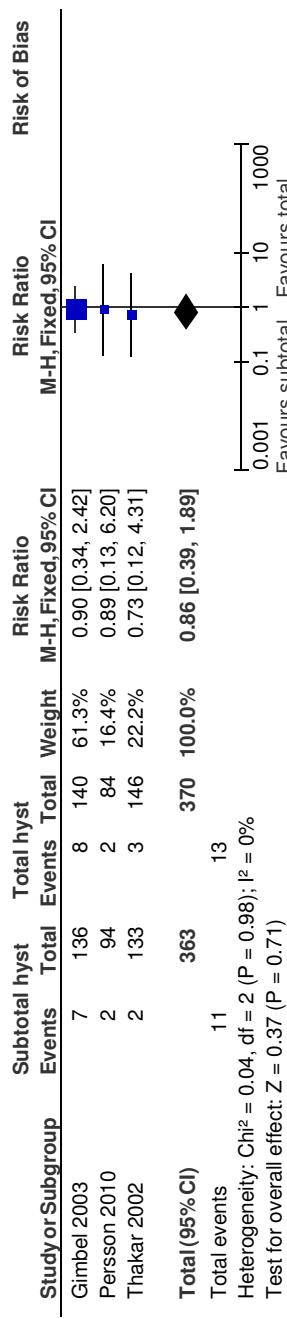
Risk of bias legend

1.14 Peroperativ blødning (ml) -Laparoskopisk hysterektomi. (Blood loss during surgery (mls))



Risk of bias legend

1.24 Sårinfektioner Postoperatoriv under indlæggelsen.-Abdominal + laparoskopisk hysterektomi(Wound infections, predischarge)



Risk of bias legend

2 Fokuseret spørgsmål 2 (PICO2). Vaginal hysterektomi sammenlignet med konventionel laparoskopisk hysterektomi ved benign sygdom

National Klinisk retningslinje om hysterektomi (fjernelse af livmoderen) ved godartet...

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2.1 Reoperation (Repeat surgery)

Study or Subgroup	LAVH	VH	Risk Ratio	Risk Ratio	Risk of Bias
	Events	Total	IV, Fixed, 95% CI	IV, Fixed, 95% CI	
Sesti 2008	0	40	0	Not estimable	

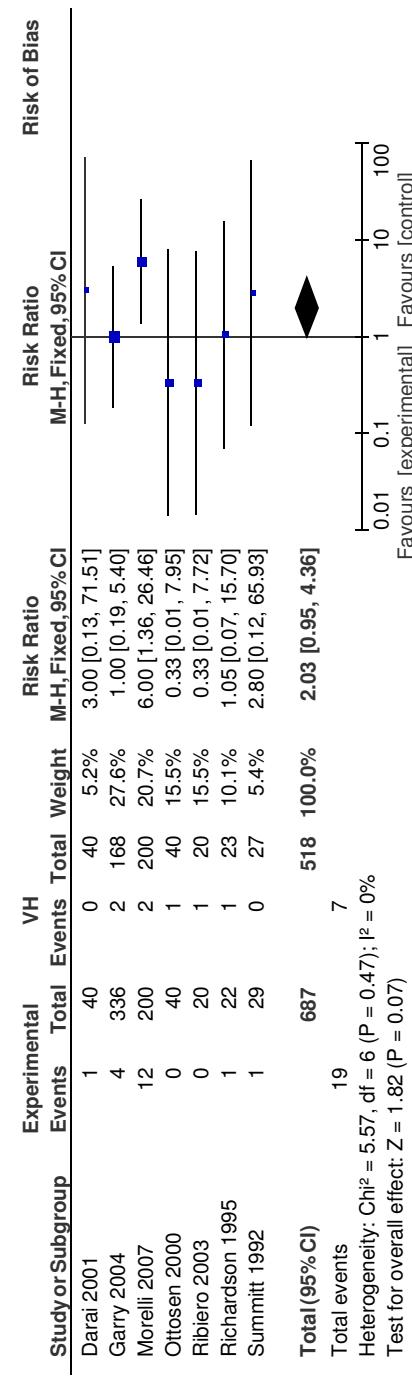
Risk of bias legend

2.2 Vaginaltropsruptur (Vaginal cuff dehiscence)

Study or Subgroup	LAVH/LH	VH	Risk Ratio	Risk Ratio	Risk of Bias
	Events	Total	Weight	M-H, Fixed, 95% CI	
Total (95% CI)	0	0	0	Not estimable	
Total events	0	0			
Heterogeneity: Not applicable					
Test for overall effect: Not applicable					

Risk of bias legend

2.3 Læsion af naboorgåner. Blære eller ureter (Intraoperative visceral injury, bladder or ureter)

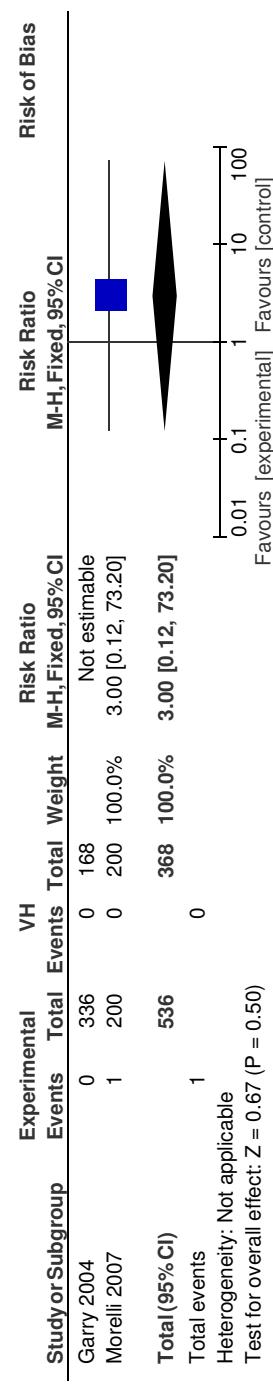


Risk of bias legend

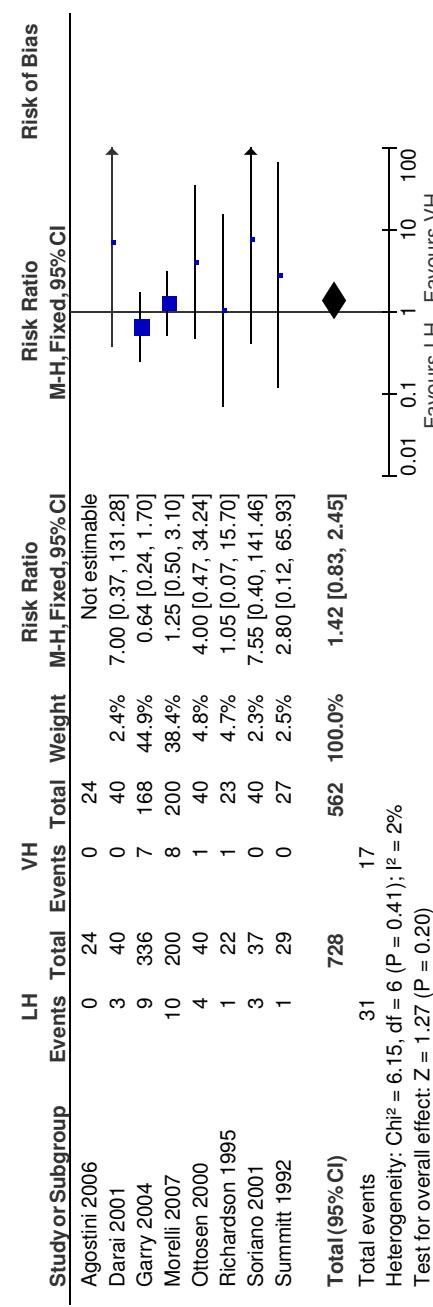
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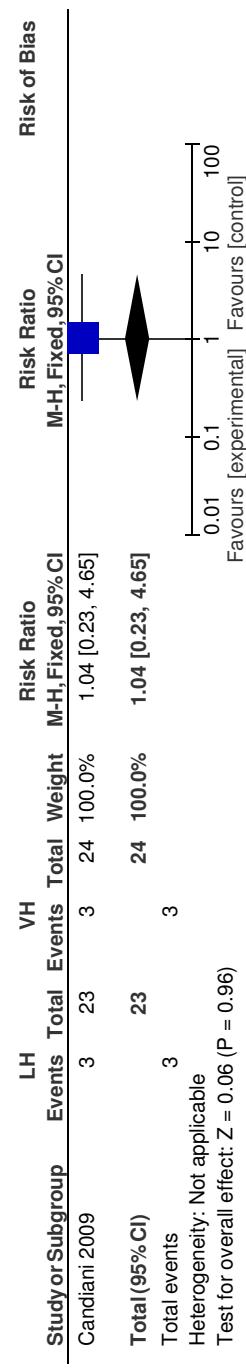
2.4 Læsion af naboorganer. Tarm. (Intraoperative visceral injury, bowel)



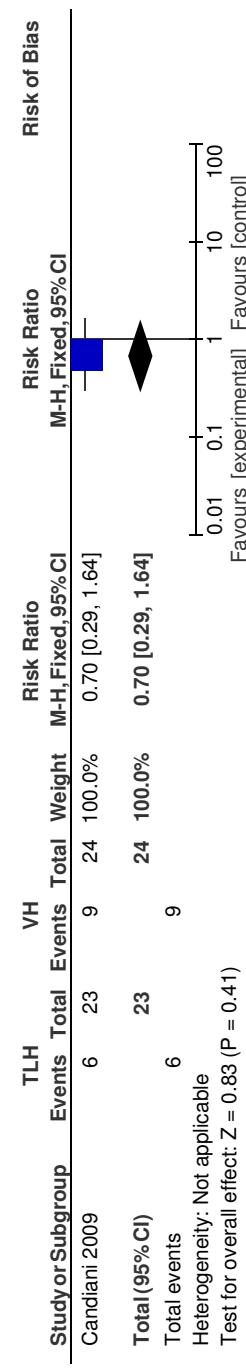
2.5 Læsioner på naboorganer der førte til konvertering til laparotomi (Intraoperative visceral injury - Unintended laparotomy)



2.6 Inkontinens (stress og urgency)



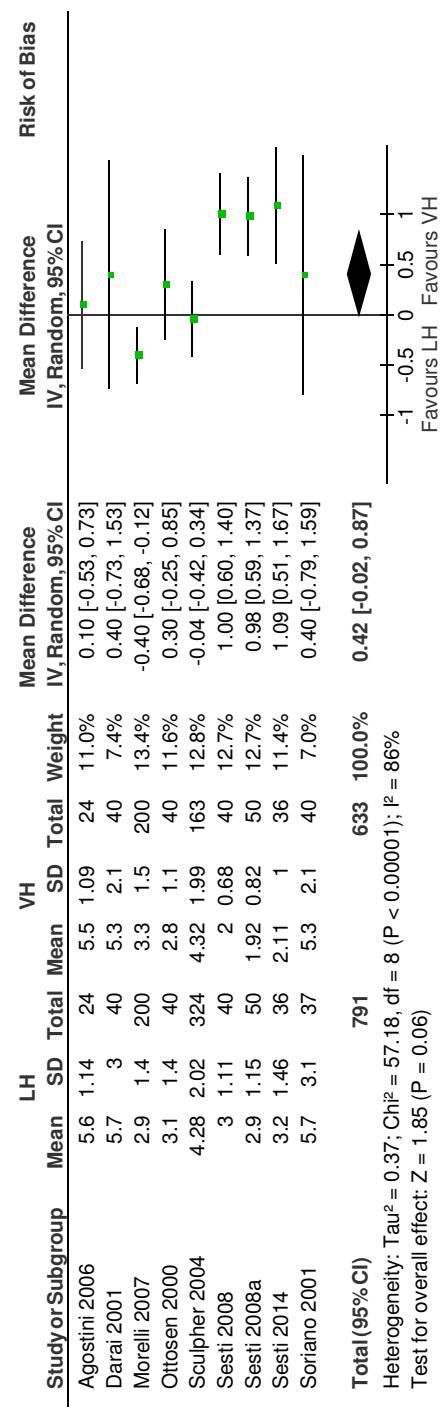
2.7 Prolaps (POP grad 1-2)



National Klinisk retningslinje om hysterektomi (fremelse af livmoderen) ved godartet...

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2.9 Indlæggelsestid (dage). (Length of hospital stay (days))



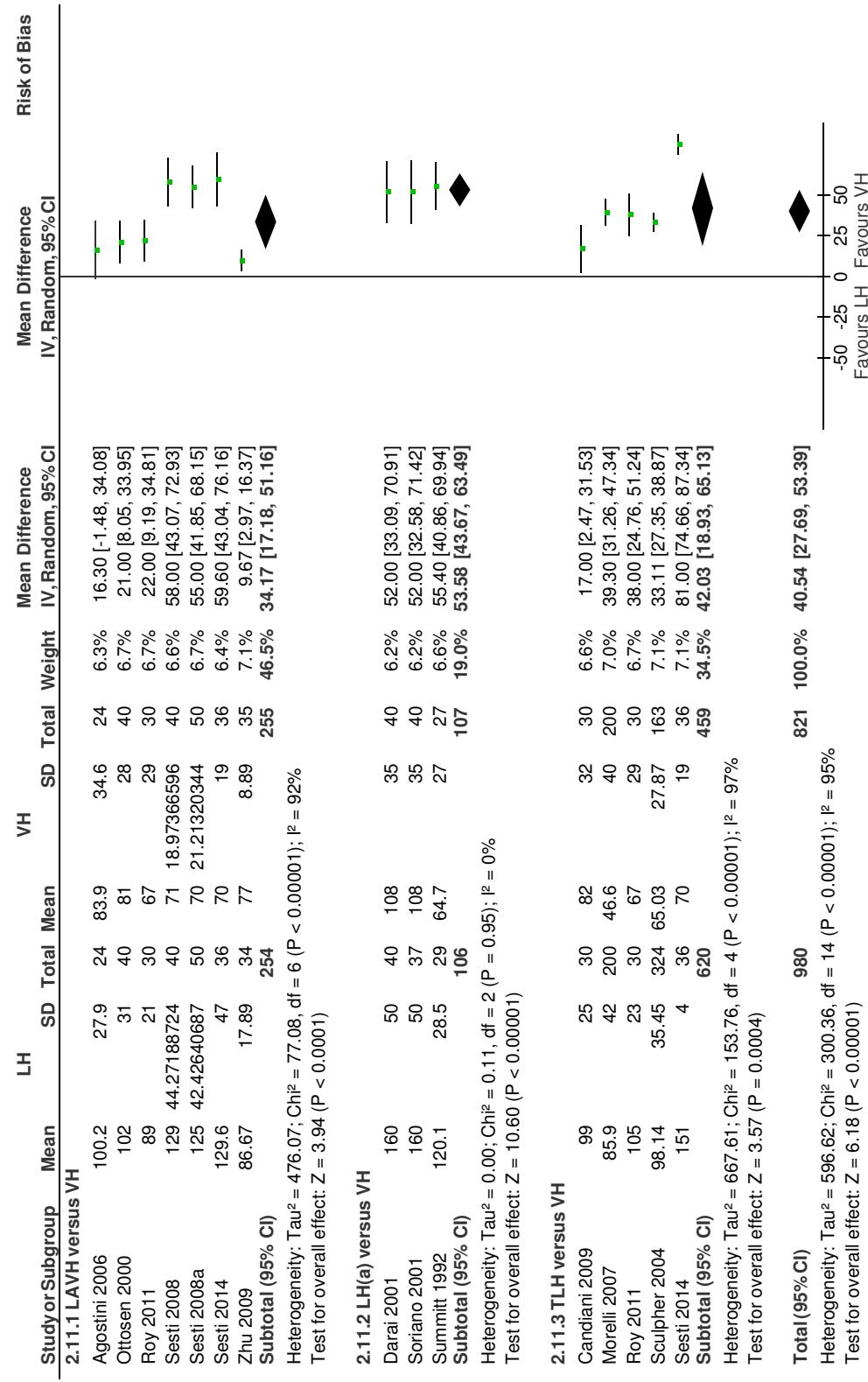
Risk of bias legend

Favours LH Favours VH

National Klinisk retningslinje om hysterektomi (fremelse af livmoderen) ved godartet...

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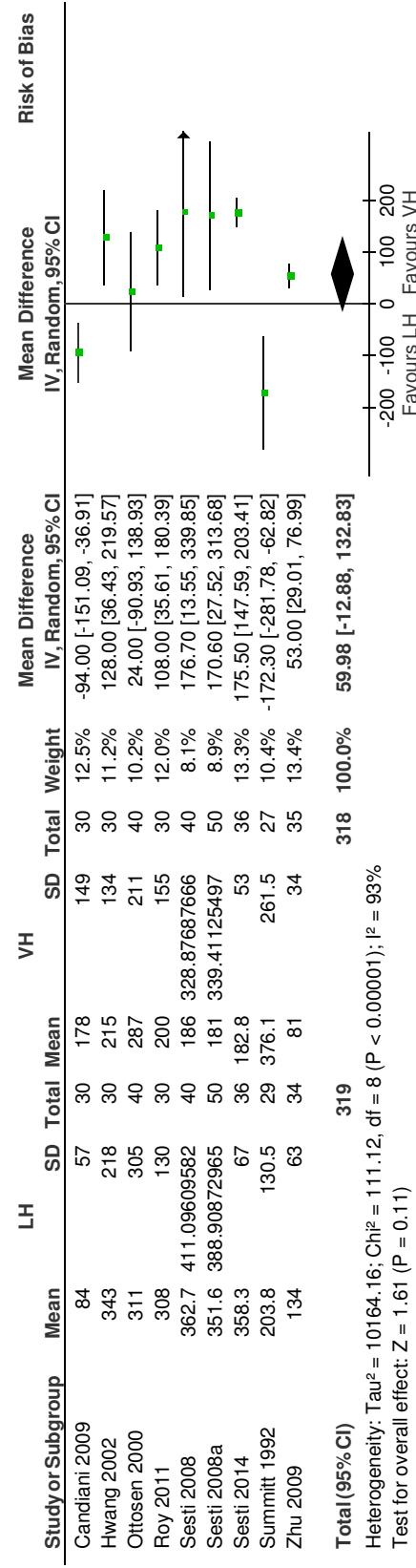
2.11 Operationstid (min.) (Operating time (mins))



National Klinisk retningslinje om hysterektomi (fremelse af livmoderen) ved godartet...

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2.13 Peroperativ blødning (ml) (Blood loss during surgery (mls))



Risk of bias legend

National Klinisk retningslinje om hysterektomi (fremelse af livmoderen) ved godartet...

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2.14 Infektion (Infection)

Study or Subgroup	LH	VH	Risk Ratio	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI	Risk of Bias
	Events	Total	Events	Total	Weight	
2.14.3 Infektion ved vaginaltøppen (vaginal cuff infection)						
Darai 2001	2	40	1	40	1.0%	2.00 [0.19, 21.18]
Hwang 2002	0	30	0	30	0.0%	Not estimable
Ottosen 2000	1	40	1	40	1.0%	1.00 [0.06, 15.44]
Summitt 1992	0	29	1	27	1.5%	0.31 [0.01, 7.33]
Subtotal (95% CI)	139		137		3.5%	0.98 [0.23, 4.19]
Total events	3		3			

Heterogeneity: Chi² = 0.86, df = 2 (P = 0.65); I² = 0%

Test for overall effect: Z = 0.03 (P = 0.98)

2.14.4 Sårminfektioner (Wound infections)

Study or Subgroup	LH	VH	Risk Ratio	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI	Risk of Bias
	Events	Total	Events	Total	Weight	
Subtotal (95% CI)						
Darai 2001	1	40	0	40	0.5%	3.00 [0.13, 71.51]
Roy 2011	2	60	0	30	0.6%	2.54 [0.13, 51.31]
Subtotal (95% CI)	100		70		1.1%	2.74 [0.31, 24.27]
Total events	3		0			

Heterogeneity: Chi² = 0.01, df = 1 (P = 0.94); I² = 0%

Test for overall effect: Z = 0.90 (P = 0.37)

2.14.5 Urinveisinfektion (UTI)

Study or Subgroup	LH	VH	Risk Ratio	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI	Risk of Bias
	Events	Total	Events	Total	Weight	
Subtotal (95% CI)						
Drahonovsky 2010	3	85	0	40	0.7%	3.34 [0.18, 63.11]
Hwang 2002	1	30	0	30	0.5%	3.00 [0.13, 70.83]
Ottosen 2000	0	40	1	40	1.5%	0.33 [0.01, 7.95]
Roy 2011	4	60	0	30	0.6%	4.57 [0.25, 82.26]
Subtotal (95% CI)	215		140		3.3%	2.18 [0.56, 8.51]
Total events	8		1			

Heterogeneity: Chi² = 1.72, df = 3 (P = 0.63); I² = 0%

Test for overall effect: Z = 1.13 (P = 0.26)

2.14.6 Øvre luftvejsinfektioner (upper respiratory infections)

Study or Subgroup	LH	VH	Risk Ratio	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI	Risk of Bias
	Events	Total	Events	Total	Weight	
Subtotal (95% CI)						
Hwang 2002	0	30	2	30	2.4%	0.20 [0.01, 4.00]
Subtotal (95% CI)	30		30		2.4%	0.20 [0.01, 4.00]
Total events	0		2			

Heterogeneity: Not applicable

Test for overall effect: Z = 1.05 (P = 0.29)

2.14.7 Feber eller uspecificeret infektion (febrile episodes or unspecified infection)

Study or Subgroup	LH	VH	Risk Ratio	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI	Risk of Bias
	Events	Total	Events	Total	Weight	
Subtotal (95% CI)						
Agostini 2006	1	24	0	24	0.5%	3.00 [0.13, 70.16]
Candiani 2009	3	30	3	30	2.9%	1.00 [0.22, 4.56]
Darai 2001	3	40	2	40	2.0%	1.50 [0.26, 8.50]
Drahonovsky 2010	9	84	8	40	10.6%	0.54 [0.22, 1.28]
Garry 2004	36	336	24	168	31.3%	0.75 [0.46, 1.21]
Ghezzi 2010	0	41	2	41	2.4%	0.20 [0.01, 4.04]

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	Total events	0	30	2	30	2.4%	0.20 [0.01, 4.00]
Hwang 2002	31	200	29	200	28.4%	1.07 [0.67, 1.70]	
Morelli 2007	1	40	1	40	1.0%	1.00 [0.06, 15.44]	
Ottosen 2000	10	60	4	30	5.2%	1.25 [0.43, 3.66]	
Roy 2011	1	40	0	40	0.5%	3.00 [0.13, 71.51]	
Sesti 2008	1	50	0	50	0.5%	3.00 [0.13, 71.92]	
Sesti 2008a	2	72	1	36	1.3%	1.00 [0.08, 10.66]	
Sumiit 1992	1	29	0	27	0.5%	2.80 [0.12, 65.98]	
Subtotal (95% CI)	1076	796	89.7%	0.90 [0.69, 1.19]			

Total events 99 76

Heterogeneity: Chi² = 7.24, df = 13 (P = 0.89); I² = 0%

Test for overall effect: Z = 0.72 (P = 0.47)

Total (95% CI) 1560

Total events 113 82

Heterogeneity: Chi² = 12.97, df = 23 (P = 0.95); I² = 0%

Test for overall effect: Z = 0.37 (P = 0.71)

Test for subgroup differences: Chi² = 3.50, df = 4 (P = 0.48), I² = 0%

Risk of bias legend

3 Fokuseret spørgsmål 3 (PICO4). Robotassisteret laparoskopisk hysterektomi sammenlignet med konventionel laparoskopisk hysterektomi ved benign sygdom

3.1 Mortalitet (mortality)

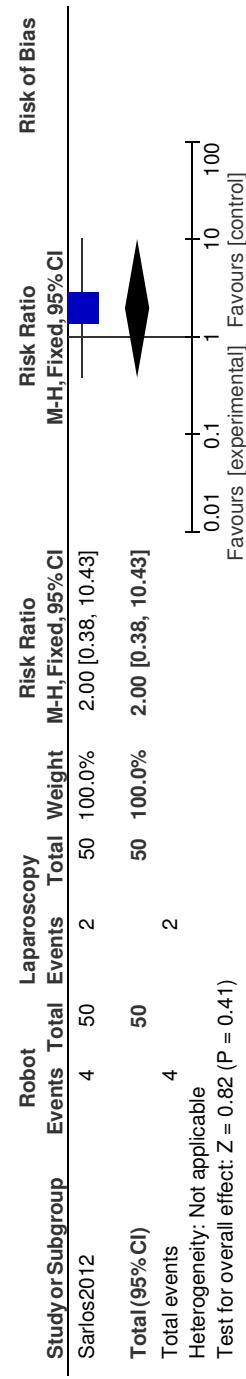


Risk of bias legend

National Klinisk retningslinje om hysterektomi (fremelse af livmoderen) ved godartet...

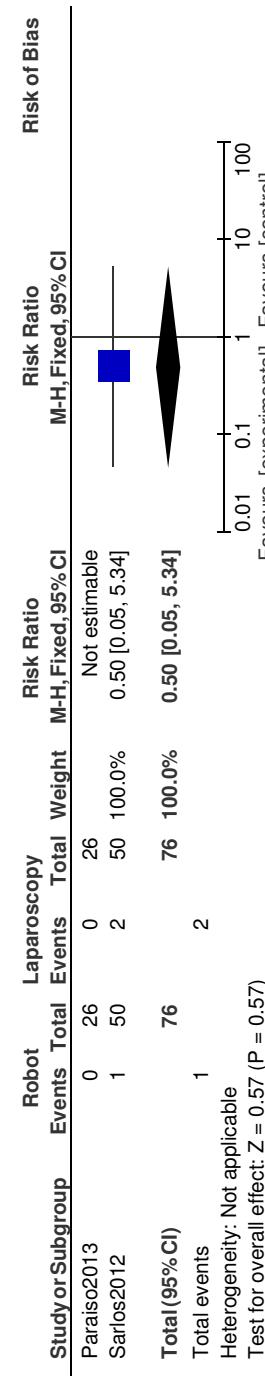
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3.2 Reoperation pga. blødning, infektion, vaginaltørsløp og hæmatom. (Reoperation because of bleeding, infection, VCD and hematoma)



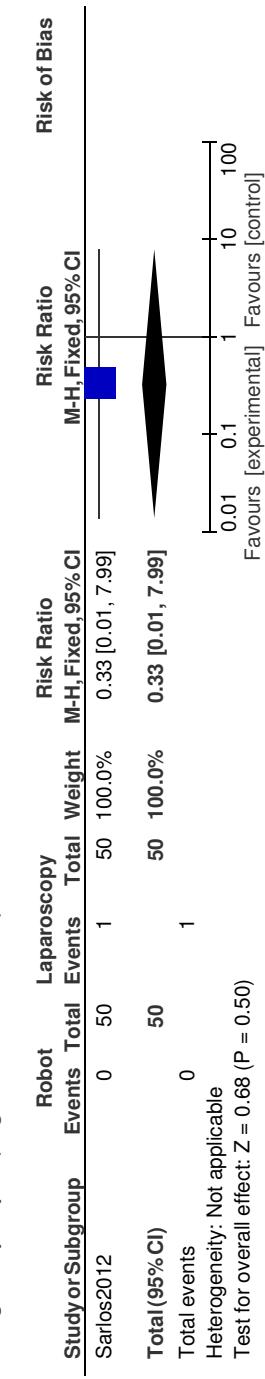
Risk of bias legend

3.3 Læsion af naboorgane (ureter-, tarm-, og karlæsioner). (Lesion of organs (ureter, bowel and vascular))



Risk of bias legend

3.4 Vaginaltørsløp (Vaginal cuff dehiscence)

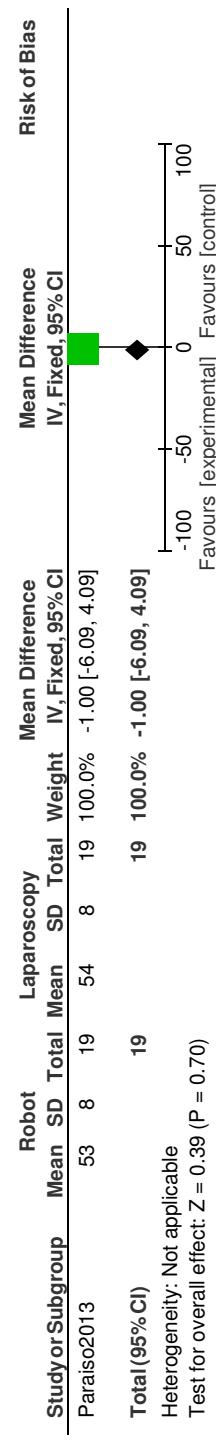


Risk of bias legend

National Klinisk retningslinje om hysterektomi (fremelse af livmoderen) ved godartet...

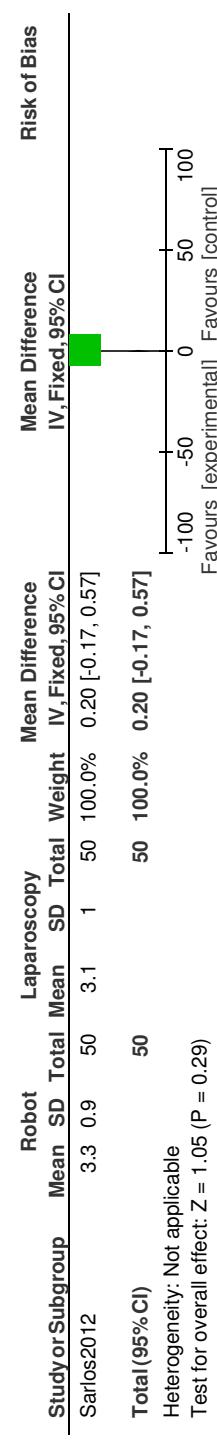
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3.5 Livskvalitet (QoL)



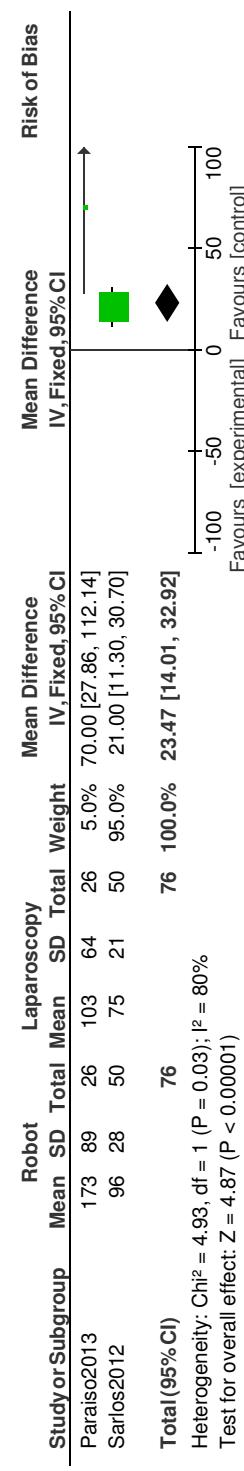
Risk of bias legend

3.6 Indlæggelsestid (dage) (Length of hospital stay (days))



Risk of bias legend

3.7 Operationsstid (min.) (Operating time (mins))

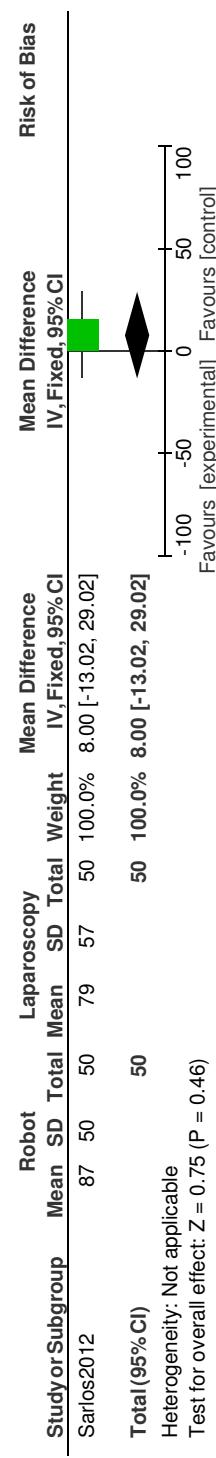


Risk of bias legend

National Klinisk retningslinje om hysterektomi (fremelse af livmoderen) ved godartet...

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3.8 Peroperativ blødning (ml) (Blood loss during surgery (mls))



Risk of bias legend

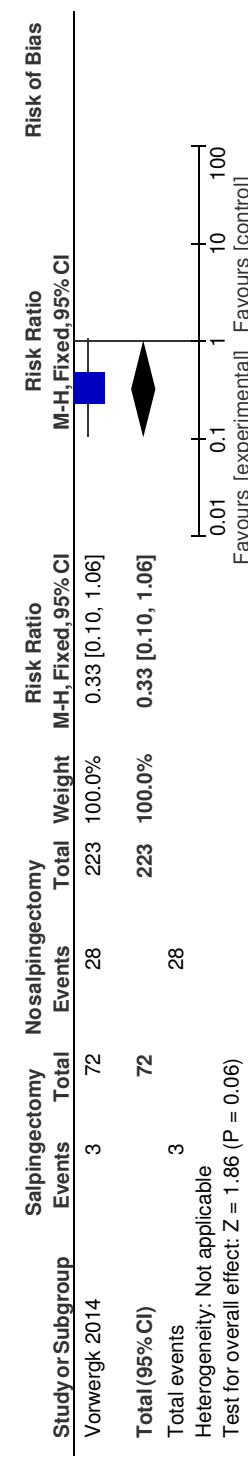
3.9 Infektion (Infection)



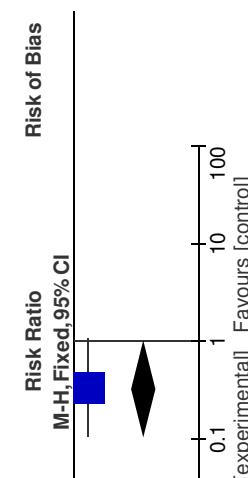
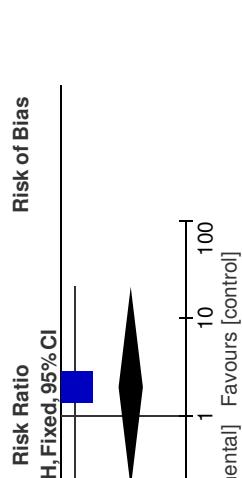
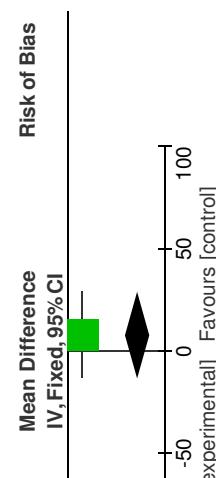
Risk of bias legend

4 Fokuseret spørgsmål 5 (PICO6). Sammenligning imellem hysterektomi med og uden salpingektomi ved behandling af benign sygdom

4.1 Reoperation (Repeat surgery)



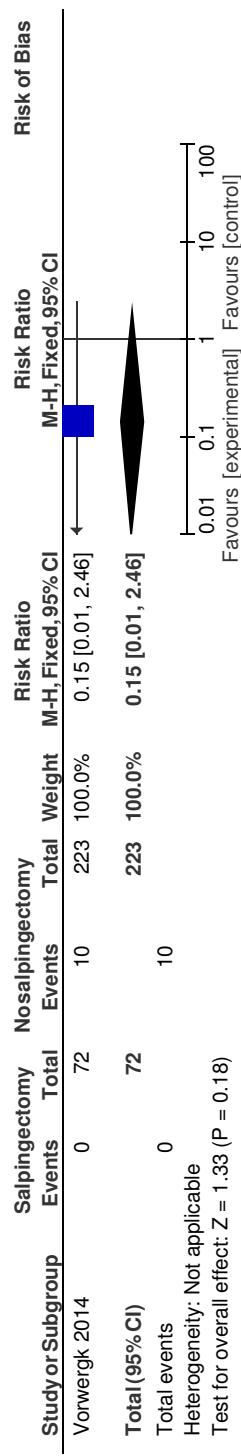
Risk of bias legend



National Klinisk retningslinje om hysterektomi (fremelse af livmoderen) ved godartet...

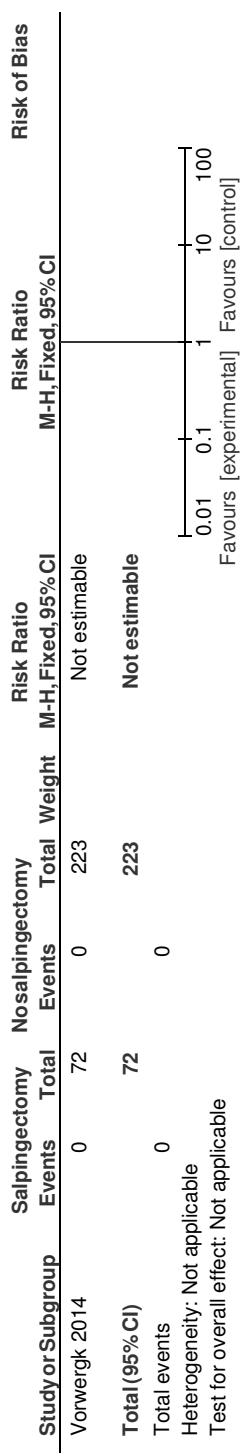
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4.2 Operation på salpinges (pga. hydrosalpinges og pyosalpinges)follow up 0-5 år. (surgery on salpinx (hydrosalpinx and pyosalpinx) follow up 0-5 years)



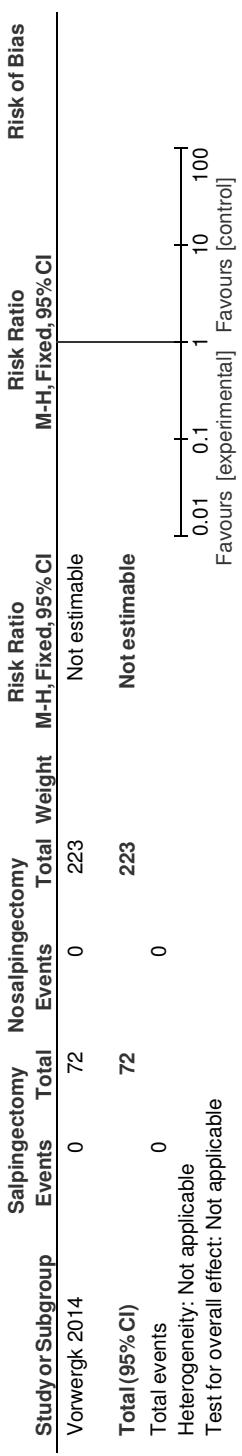
Risk of bias legend

4.3 Tubacancer. Gns. follow up: non-PBS^{**} 92 mdr., PBS[†] 55 mdr. (Tubal cancer, follow up non-PBS^{**} 92 months., PBS[†] 55 months)



Risk of bias legend

4.4 Ovariecancer. Gns. follow up: non-PBS^{**} 92 mdr., PBS[†] 55 mdr. (Ovarian cancer, follow up non-PBS^{**} 92 months., PBS[†] 55 months)

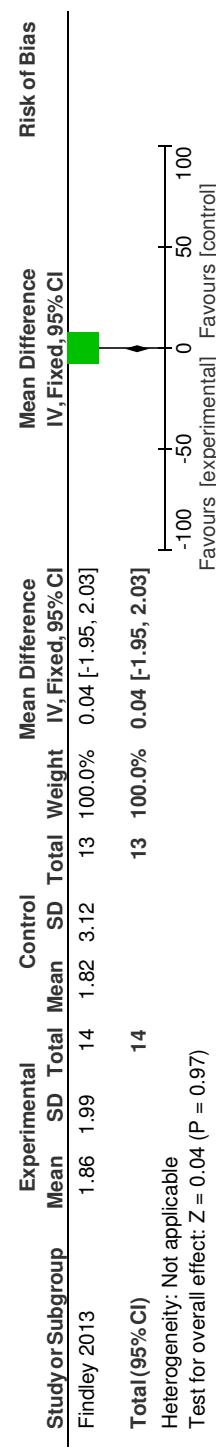


Risk of bias legend

National Klinisk retningslinje om hysterektomi (fjernelse af livmoderen) ved godartet...

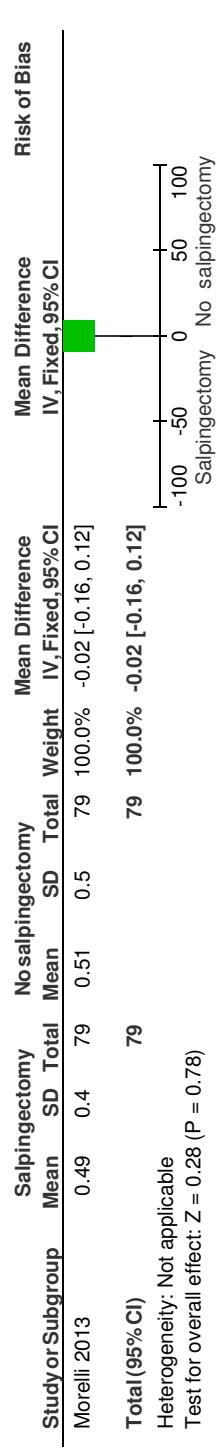
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4.5 Anti Müllerisk Hormon (AMH)ng/ml. 3 mdr. follow up. (Anti-Müllerian Hormone, follow up: 3 months) - RCT



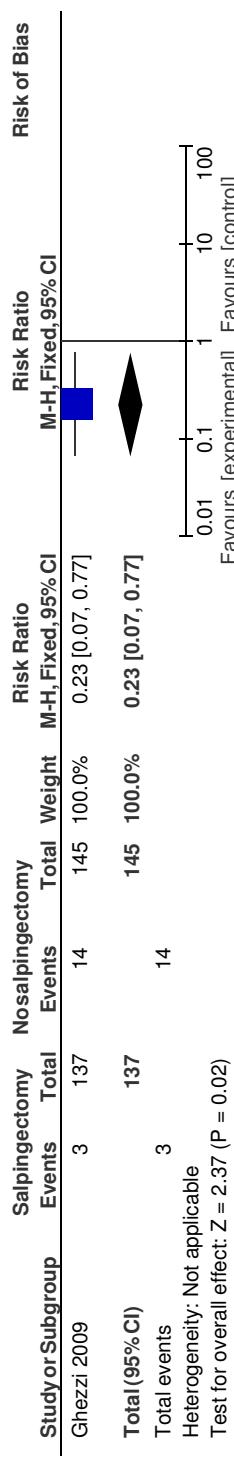
Risk of bias legend

4.6 Anti Müllerisk Hormon (AMH)ng/ml. 3 mdr. follow up. (Anti-Müllerian Hormone, follow up: 3 months) - Observational study



Risk of bias legend

4.7 Infektion (infection)



Risk of bias legend

5 Fokuseret spørgsmål 6 (PICO9). Suspension af vaginaltæppen i forbindelse med fjernelse af en ikke-nedsunket livmoder pga. benign sygdom?

National Klinisk retningslinje om hysterektomi (fremelse af livmoderen) ved godartet...

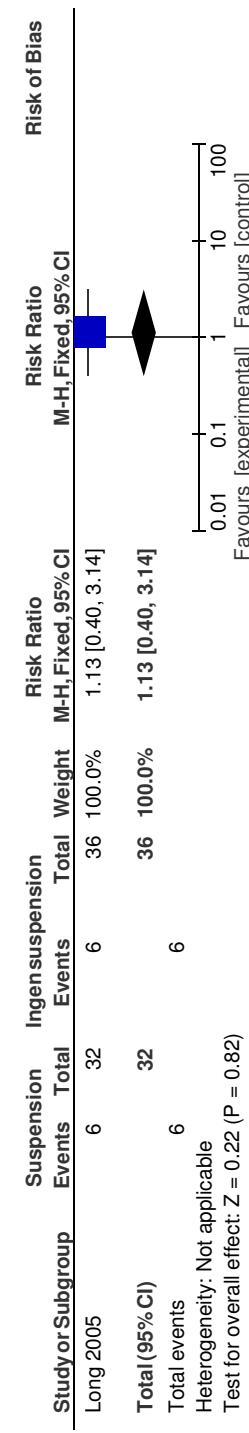
19-May-2015

5.1 Prolaps (POP) (Pelvic prolapse)

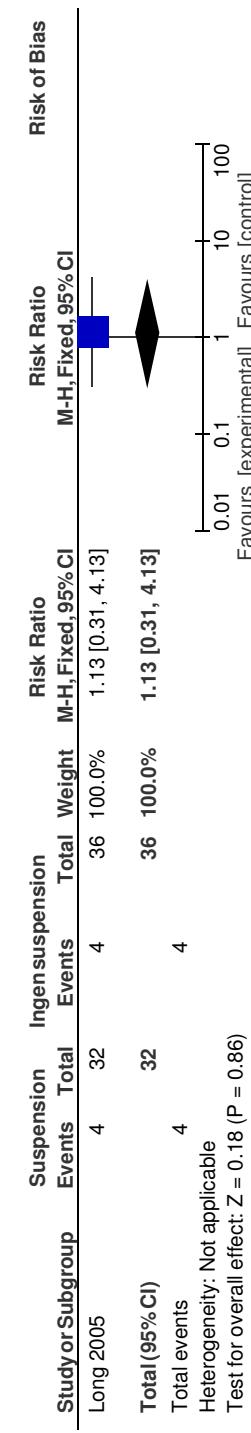
Study or Subgroup	Robot Events	Total Events	Laparoscopy Total Events	Total Weight	Risk Ratio M-H, Fixed, 95% CI	Risk Ratio M-H, Fixed, 95% CI	Risk of Bias
Total (95% CI)	0	0	0	Not estimable			
Total events	0	0					
Heterogeneity: Not applicable							

Test for overall effect: Not applicable

Risk of bias legend
5.2 Stressinkontinens 6 mdr. follow up. (Stress incontinence, follow up: 6 months)



Risk of bias legend
5.3 Læsion af naboorgæner (skader på kar, ureter og blære) (Lesion of organs (vascular, ureter and bladder injury))



Risk of bias legend

National Klinisk retningslinje om hysterektomi (fremelse af livmoderen) ved godartet...

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5.4 Reoperation (Repeat surgery)

Study or Subgroup	Robot Events	Robot Total	Laparoscopy Events	Laparoscopy Total	Weight	Risk Ratio M-H, Fixed, 95% CI	Risk Ratio M-H, Fixed, 95% CI	Risk of Bias
Total (95% CI)	0	0	0	0	Not estimable			
Total events	0	0						
Heterogeneity: Not applicable								

Test for overall effect: Not applicable

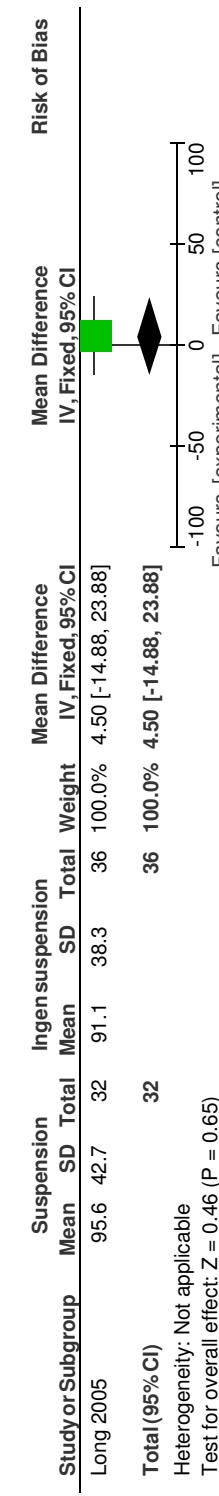
Risk of bias legend

Study or Subgroup	Robot Events	Robot Total	Laparoscopy Events	Laparoscopy Total	Weight	Risk Ratio M-H, Fixed, 95% CI	Risk Ratio M-H, Fixed, 95% CI	Risk of Bias
Total (95% CI)	0	0	0	0	Not estimable			
Total events	0	0						
Heterogeneity: Not applicable								

Test for overall effect: Not applicable

Risk of bias legend

5.6 Operationsstid (min.) (Operating time (mins))



Heterogeneity: Not applicable

Test for overall effect: Z = 0.46 (P = 0.65)

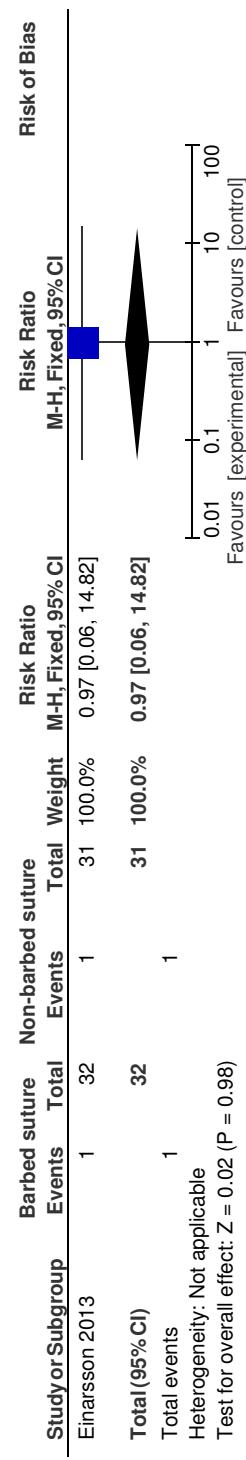
Risk of bias legend

6 Fokuseret spørgsmål 9 (PICOT). Sutur med eller uden modhager til suturering af vaginaltuppen i forbindelse med total laparoskopisk hysterektomi pga. benign sygdom?

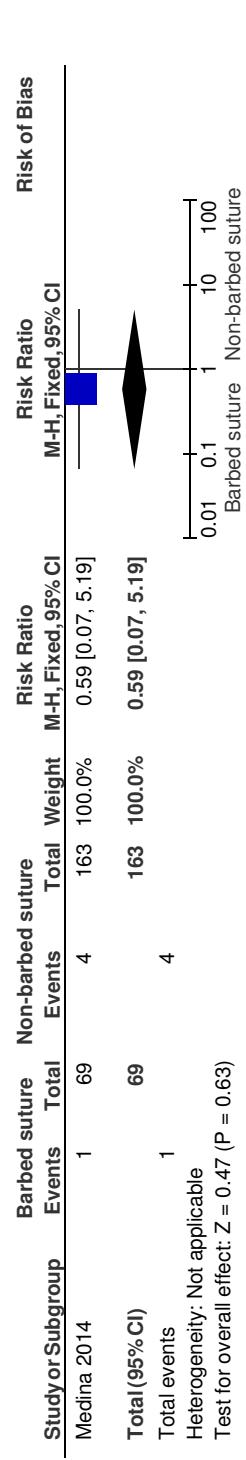
National Klinisk retningslinje om hysterektomi (fjernelse af livmoderen) ved godartet...

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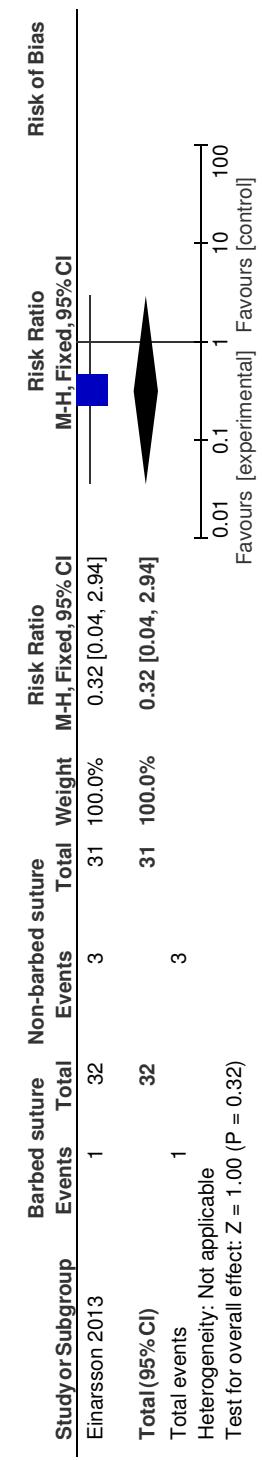
6.1 Reoperation for vaginaltørsruptur (Repeat surgery because of vaginal cuff dehiscence)



6.2 Vaginaltørsruptur (min. follow up > 1 mdr.) (Vaginal cuff dehiscence (min. follow up > 1 month))



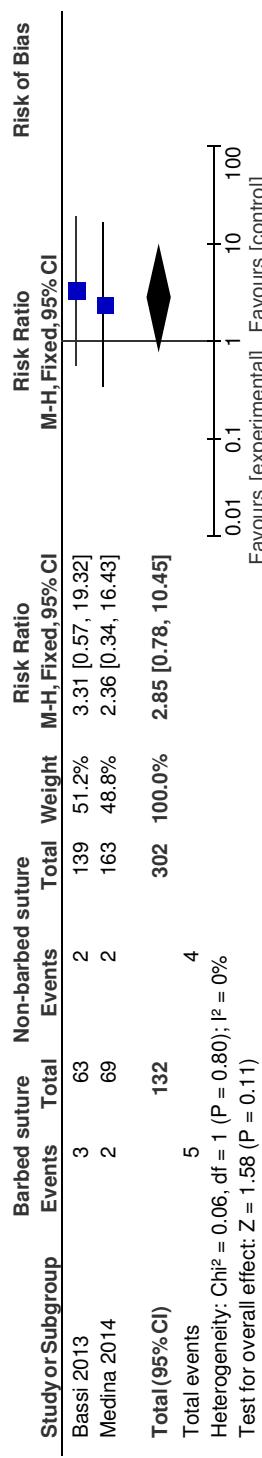
6.3 Infektion i vaginaltøppen, follow up: 3 uger (Infection of the vaginal cuff, follow up: 3 weeks) (follow up: 3 weeks)



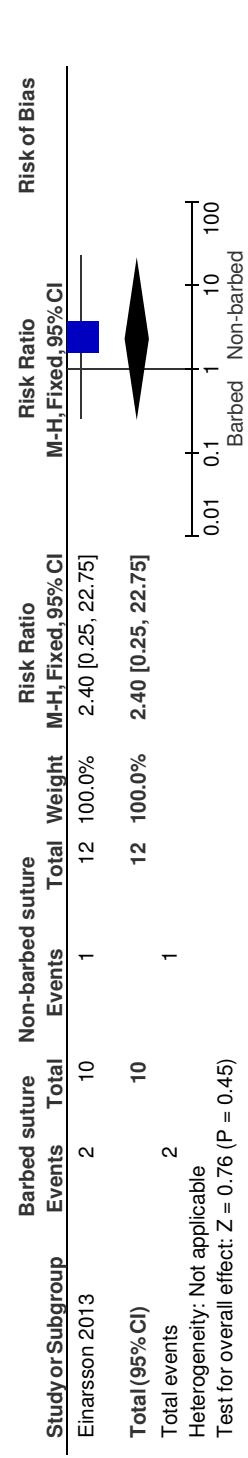
National Klinisk retningslinje om hysterektomi (fremelse af livmoderen) ved godartet...

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6.4 Postoperative infektionskomplikationer (infektioner med kendt fokus) (Postoperative infectious complications (known focus))



6.5 Seksuel funktion - dyspareunia follow up: 3 mdr. (Sexual function - dyspareunia follow up: 3 months) (follow up: 3 months)



6.6 Operationstid (min.) (Operating time (mins)) (assessed with: min.)

