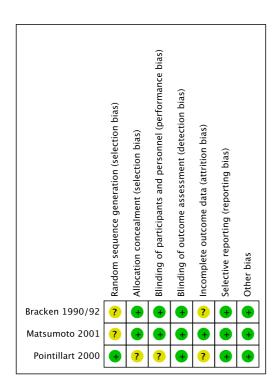
## Supplemental figures and legends



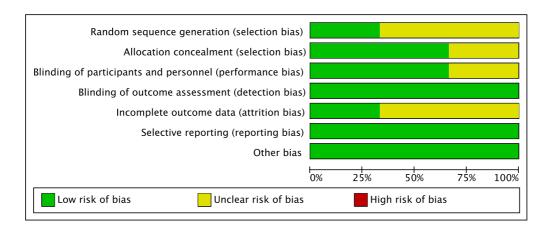


Figure e-1. Risk of bias assessment of the included RCTs

2.1.1 Mortality	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95%
•	7	162	13	171	3 70/	0.63 [0.35, 1.53]	
Bracken 1990 Evaniew 2015	7 0	162 0	12 0	171 0	2.7%	0.62 [0.25, 1.53]	<del>-</del>
Gerndt 1997	7	93	5	47	1.5%	Not estimable 0.71 [0.24, 2.11]	
Levy 1996	0	93 55	1	181	0.2%	1.08 [0.04, 26.22]	
Suberviola 2008	4	59	3	23	1.0%	0.52 [0.13, 2.14]	
Subtotal (95% CI)	7	369	,	422	5.4%	0.64 [0.35, 1.18]	
Total events	18		21			- · ·	-
Heterogeneity: Chi <sup>2</sup> = 0 Test for overall effect:	0.23, df =		= 0.97);	$I^2 = 0\%$			
2.1.2 Gastrointestinal		_					
Bracken 1990	7	162	5	171	1.1%	1.48 [0.48, 4.56]	<del>-   -  </del>
Gerndt 1997	6	93	4	47	1.2%	0.76 [0.22, 2.56]	
Heary 1997	0	31	5	193	0.4%	0.55 [0.03, 9.73]	
Ito 2009 Khan 2014	6 6	38 216	2 0	41 134	0.4%	3.24 [0.70, 15.07] 8.09 [0.46, 142.41]	
Matsumoto 2001	4	23	0	23		9.00 [0.51, 158.17]	
Tsutsumi 2006	2	37	1	33	0.1%	1.78 [0.17, 18.78]	
Subtotal (95% CI)	2	600	1	642	3.7%	1.87 [1.03, 3.42]	
Total events	31		17				•
Heterogeneity: Chi <sup>2</sup> = ! Test for overall effect:	5.63, df =		= 0.47);	$I^2 = 0\%$			
2.1.3 Respiratory trac							
Bracken 1990	46	162	42	171	9.5%	1.16 [0.81, 1.66]	+
Evaniew 2015	7	44	4	44	0.9%	1.75 [0.55, 5.56]	1
Gerndt 1997	40	93	15	47	4.6%	1.35 [0.84, 2.17]	
Ito 2009	19	38	11	41	2.5%	1.86 [1.03, 3.39]	
Levy 1996 Matsumoto 2001	25 8	55 23	81 1	181 23	8.8% 0.2%	1.02 [0.73, 1.42] 8.00 [1.09, 58.93]	<u>T</u>
Suberviola 2008	8 16	59	1	23	0.2%	6.24 [0.88, 44.37]	
Sunshine 2017	27	160	23	151	5.5%	1.11 [0.67, 1.84]	<del></del>
Tsutsumi 2006	1	37	4	33	1.0%	0.22 [0.03, 1.90]	
Subtotal (95% CI)	-	671	•	714	33.3%	1.28 [1.06, 1.54]	<b> </b>
Total events	189		182				ľ
Heterogeneity: Chi <sup>2</sup> = Test for overall effect:  2.1.4 Urinary tract inf	Z = 2.59 ection	(P = 0	.010)				
	7.4	162	79	171	17 00/		-
Bracken 1990	74				17.8%	0.99 [0.78, 1.25]	Ţ
Evaniew 2015	11	44	9	44	2.1%	1.22 [0.56, 2.65]	
Evaniew 2015 Gerndt 1997	11 9	44 93	9 7	44 47	2.1% 2.2%	1.22 [0.56, 2.65] 0.65 [0.26, 1.64]	+
Evaniew 2015 Gerndt 1997 Levy 1996	11 9 45	44 93 55	9 7 144	44 47 181	2.1% 2.2% 15.6%	1.22 [0.56, 2.65] 0.65 [0.26, 1.64] 1.03 [0.89, 1.19]	
Evaniew 2015 Gerndt 1997 Levy 1996 Matsumoto 2001	11 9 45 1	44 93 55 23	9 7 144 1	44 47 181 23	2.1% 2.2% 15.6% 0.2%	1.22 [0.56, 2.65] 0.65 [0.26, 1.64] 1.03 [0.89, 1.19] 1.00 [0.07, 15.04]	
Evaniew 2015 Gerndt 1997 Levy 1996	11 9 45	44 93 55	9 7 144	44 47 181	2.1% 2.2% 15.6%	1.22 [0.56, 2.65] 0.65 [0.26, 1.64] 1.03 [0.89, 1.19]	
Evaniew 2015 Gerndt 1997 Levy 1996 Matsumoto 2001 Suberviola 2008	11 9 45 1 7	44 93 55 23 59	9 7 144 1 1	44 47 181 23 23	2.1% 2.2% 15.6% 0.2% 0.3%	1.22 [0.56, 2.65] 0.65 [0.26, 1.64] 1.03 [0.89, 1.19] 1.00 [0.07, 15.04] 2.73 [0.36, 20.97]	
Evaniew 2015 Gerndt 1997 Levy 1996 Matsumoto 2001 Suberviola 2008 Sunshine 2017	11 9 45 1 7	44 93 55 23 59 160	9 7 144 1 1	44 47 181 23 23 151	2.1% 2.2% 15.6% 0.2% 0.3% 0.7%	1.22 [0.56, 2.65] 0.65 [0.26, 1.64] 1.03 [0.89, 1.19] 1.00 [0.07, 15.04] 2.73 [0.36, 20.97] 1.26 [0.29, 5.53]	
Evaniew 2015 Gerndt 1997 Levy 1996 Matsumoto 2001 Suberviola 2008 Sunshine 2017 Subtotal (95% CI)	11 9 45 1 7 4 151 2.18, df =	44 93 55 23 59 160 <b>596</b> = 6 (P	9 7 144 1 1 3 244 = 0.90);	44 47 181 23 23 151 <b>640</b>	2.1% 2.2% 15.6% 0.2% 0.3% 0.7% 38.9%	1.22 [0.56, 2.65] 0.65 [0.26, 1.64] 1.03 [0.89, 1.19] 1.00 [0.07, 15.04] 2.73 [0.36, 20.97] 1.26 [0.29, 5.53]	
Evaniew 2015 Gerndt 1997 Levy 1996 Matsumoto 2001 Suberviola 2008 Sunshine 2017 Subtotal (95% CI) Total events Heterogeneity: Chi² = 2 Test for overall effect: 2.1.5 Wound infection	11 9 45 1 7 4 151 2.18, df = Z = 0.25	44 93 55 23 59 160 <b>596</b> = 6 (P = 0	9 7 144 1 1 3 244 = 0.90);	$ 44 47 181 23 23 151 640  I^{2} = 0\% $	2.1% 2.2% 15.6% 0.2% 0.3% 0.7% 38.9%	1.22 [0.56, 2.65] 0.65 [0.26, 1.64] 1.03 [0.89, 1.19] 1.00 [0.07, 15.04] 2.73 [0.36, 20.97] 1.26 [0.29, 5.53] 1.02 [0.88, 1.17]	
Evaniew 2015 Gerndt 1997 Levy 1996 Matsumoto 2001 Suberviola 2008 Sunshine 2017 Subtotal (95% CI) Total events Heterogeneity: Chi² = 1 Test for overall effect: 2.1.5 Wound infection Bracken 1990	11 9 45 1 7 4 151 2.18, df = Z = 0.25	44 93 55 23 59 160 <b>596</b> = 6 (P = 0	9 7 144 1 1 3 244 = 0.90);	$44 47 181 23 23 151 640 1^{2} = 0\% 171$	2.1% 2.2% 15.6% 0.2% 0.3% 0.7% 38.9%	1.22 [0.56, 2.65] 0.65 [0.26, 1.64] 1.03 [0.89, 1.19] 1.00 [0.07, 15.04] 2.73 [0.36, 20.97] 1.26 [0.29, 5.53] 1.02 [0.88, 1.17] 2.11 [0.81, 5.49]	
Evaniew 2015 Gerndt 1997 Levy 1996 Matsumoto 2001 Suberviola 2008 Sunshine 2017 Subtotal (95% CI) Total events Heterogeneity: Chi² = : Test for overall effect:  2.1.5 Wound infection Bracken 1990 Gerndt 1997	11 9 45 1 7 4 151 2.18, df = Z = 0.25	44 93 55 23 59 160 <b>596</b> = 6 (P = 0	9 7 144 1 1 3 3 244 = 0.90);	$44 47 181 23 23 151 640 1^{2} = 0\% 171 47$	2.1% 2.2% 15.6% 0.2% 0.3% 0.7% 38.9%	1.22 [0.56, 2.65] 0.65 [0.26, 1.64] 1.03 [0.89, 1.19] 1.00 [0.07, 15.04] 2.73 [0.36, 20.97] 1.26 [0.29, 5.53] 1.02 [0.88, 1.17] 2.11 [0.81, 5.49] 0.40 [0.17, 0.96]	
Evaniew 2015 Gerndt 1997 Levy 1996 Matsumoto 2001 Suberviola 2008 Sunshine 2017 Subtotal (95% CI) Total events Heterogeneity: Chi² = : Test for overall effect:  2.1.5 Wound infection Bracken 1990 Gerndt 1997 Suberviola 2008	11 9 45 1 7 4 151 2.18, df = Z = 0.25	44 93 55 23 59 160 <b>596</b> = 6 (P = 0	9 7 144 1 1 3 244 = 0.90);	$44$ $47$ $181$ $23$ $23$ $151$ $640$ $1^{2} = 0\%$ $171$ $47$ $23$	2.1% 2.2% 15.6% 0.2% 0.3% 0.7% 38.9%	1.22 [0.56, 2.65] 0.65 [0.26, 1.64] 1.03 [0.89, 1.19] 1.00 [0.07, 15.04] 2.73 [0.36, 20.97] 1.26 [0.29, 5.53] 1.02 [0.88, 1.17] 2.11 [0.81, 5.49] 0.40 [0.17, 0.96] 1.17 [0.13, 10.67]	
Evaniew 2015 Gerndt 1997 Levy 1996 Matsumoto 2001 Suberviola 2008 Sunshine 2017 Subtotal (95% CI) Total events Heterogeneity: Chi² = 17 Test for overall effect:  2.1.5 Wound infection Bracken 1990 Gerndt 1997 Suberviola 2008 Subtotal (95% CI)	11 9 45 1 7 4 151 2.18, df = Z = 0.25	44 93 55 23 59 160 <b>596</b> = 6 (P = 0	9 7 144 1 1 3 244 = 0.90); 1.80)	$44 47 181 23 23 151 640 1^{2} = 0\% 171 47$	2.1% 2.2% 15.6% 0.2% 0.3% 0.7% 38.9%	1.22 [0.56, 2.65] 0.65 [0.26, 1.64] 1.03 [0.89, 1.19] 1.00 [0.07, 15.04] 2.73 [0.36, 20.97] 1.26 [0.29, 5.53] 1.02 [0.88, 1.17] 2.11 [0.81, 5.49] 0.40 [0.17, 0.96]	
Evaniew 2015 Gerndt 1997 Levy 1996 Matsumoto 2001 Suberviola 2008 Sunshine 2017 Subtotal (95% CI) Total events Heterogeneity: Chi² = : Test for overall effect:  2.1.5 Wound infection Bracken 1990 Gerndt 1997 Suberviola 2008	11 9 45 1 7 4 151 2.18, df = Z = 0.25 1 12 8 3 23 5.48, df =	44 93 55 23 59 160 <b>596</b> = 6 (P = 0 (P = 0 162 93 59 <b>314</b> = 2 (P =	9 7 144 1 3 244 = 0.90); 80) 6 10 1 17 = 0.04);	$44$ $47$ $181$ $23$ $23$ $151$ $640$ $1^{2} = 0\%$ $171$ $47$ $23$ $241$	2.1% 2.2% 15.6% 0.2% 0.3% 3.0.7% 38.9%	1.22 [0.56, 2.65] 0.65 [0.26, 1.64] 1.03 [0.89, 1.19] 1.00 [0.07, 15.04] 2.73 [0.36, 20.97] 1.26 [0.29, 5.53] 1.02 [0.88, 1.17] 2.11 [0.81, 5.49] 0.40 [0.17, 0.96] 1.17 [0.13, 10.67]	
Evaniew 2015 Gerndt 1997 Levy 1996 Matsumoto 2001 Suberviola 2008 Sunshine 2017 Subtotal (95% CI) Total events Heterogeneity: Chi² = 2 2.1.5 Wound infection Bracken 1990 Gerndt 1997 Suberviola 2008 Subtotal (95% CI) Total events Heterogeneity: Chi² = 4	11 9 45 1 7 4 151 2.18, df = Z = 0.25 1 12 8 3 23 5.48, df =	44 93 55 23 59 160 <b>596</b> = 6 (P = 0 (P = 0 162 93 59 <b>314</b> = 2 (P =	9 7 144 1 3 244 = 0.90); 80) 6 10 1 17 = 0.04);	$44$ $47$ $181$ $23$ $23$ $151$ $640$ $1^{2} = 0\%$ $171$ $47$ $23$ $241$	2.1% 2.2% 15.6% 0.2% 0.3% 3.0.7% 38.9%	1.22 [0.56, 2.65] 0.65 [0.26, 1.64] 1.03 [0.89, 1.19] 1.00 [0.07, 15.04] 2.73 [0.36, 20.97] 1.26 [0.29, 5.53] 1.02 [0.88, 1.17] 2.11 [0.81, 5.49] 0.40 [0.17, 0.96] 1.17 [0.13, 10.67]	•
Evaniew 2015 Gerndt 1997 Levy 1996 Matsumoto 2001 Suberviola 2008 Sunshine 2017 Subtotal (95% CI) Total events Heterogeneity: Chi² = i Test for overall effect:  2.1.5 Wound infection Bracken 1990 Gerndt 1997 Suberviola 2008 Subtotal (95% CI) Total events Heterogeneity: Chi² = i Test for overall effect:	11 9 45 1 7 4 151 2.18, df = Z = 0.25 1 12 8 3 23 5.48, df =	44 93 55 23 59 160 <b>596</b> = 6 (P = 0 (P = 0 162 93 59 <b>314</b> = 2 (P =	9 7 144 1 3 244 = 0.90); 80) 6 10 1 17 = 0.04);	$44$ $47$ $181$ $23$ $23$ $151$ $640$ $1^{2} = 0\%$ $171$ $47$ $23$ $241$	2.1% 2.2% 15.6% 0.2% 0.3% 3.0.7% 38.9%	1.22 [0.56, 2.65] 0.65 [0.26, 1.64] 1.03 [0.89, 1.19] 1.00 [0.07, 15.04] 2.73 [0.36, 20.97] 1.26 [0.29, 5.53] 1.02 [0.88, 1.17] 2.11 [0.81, 5.49] 0.40 [0.17, 0.96] 1.17 [0.13, 10.67]	•
Evaniew 2015 Gerndt 1997 Levy 1996 Matsumoto 2001 Suberviola 2008 Sunshine 2017 Subtotal (95% CI) Total events Heterogeneity: Chi² = : Test for overall effect:  2.1.5 Wound infection Bracken 1990 Gerndt 1997 Suberviola 2008 Subtotal (95% CI) Total events Heterogeneity: Chi² = : Test for overall effect:  2.1.6 Sepsis Bracken 1990 Evaniew 2015	11 9 45 1 7 4 151 2.18, df = Z = 0.25 1 2 8 3 5.48, df = Z = 0.20	44 93 55 23 59 160 <b>596</b> (P = 0 162 93 314 = 2 (P = 0	9 7 144 1 1 3 244 = 0.90); 880) 6 10 1 1 7 = 0.04); 884)	$\begin{array}{c} 44\\ 47\\ 181\\ 23\\ 23\\ 151\\ 640\\ \end{array}$ $\begin{array}{c} 171\\ 47\\ 23\\ 241\\ \end{array}$ $\begin{array}{c} 171\\ 47\\ 241\\ \end{array}$ $\begin{array}{c} 171\\ 47\\ 44\\ \end{array}$	2.1% 2.2% 15.6% 0.2% 0.3% 0.7% 38.9% 1.4% 3.1% 0.3% 4.8%	1.22 [0.56, 2.65] 0.65 [0.26, 1.64] 1.03 [0.89, 1.19] 1.00 [0.07, 15.04] 2.73 [0.36, 20.97] 1.26 [0.29, 5.53] 1.02 [0.88, 1.17]  2.11 [0.81, 5.49] 0.40 [0.17, 0.96] 1.17 [0.13, 10.67] 0.94 [0.53, 1.67]  0.86 [0.37, 2.03] 1.00 [0.06, 15.49]	
Evaniew 2015 Gerndt 1997 Levy 1996 Matsumoto 2001 Suberviola 2008 Sunshine 2017 Subtotal (95% CI) Total events Heterogeneity: Chi² = : Test for overall effect:  2.1.5 Wound infection Bracken 1990 Gerndt 1997 Suberviola 2008 Subtotal (95% CI) Total events Heterogeneity: Chi² = : Test for overall effect:  2.1.6 Sepsis Bracken 1990 Evaniew 2015 Matsumoto 2001	11 9 45 1 7 4 151 2.18, df = Z = 0.25 1 2 8 3 3 5.48, df = Z = 0.20	44 93 55 23 59 160 <b>596</b> = 6 (P = 0 (P = 0 162 93 314 = 2 (P = 0	9 7 144 1 1 3 244 = 0.90); 8.80) 6 10 1 1 7 = 0.04); 8.84)	$\begin{array}{c} 44\\ 47\\ 181\\ 23\\ 23\\ 151\\ 640\\ \end{array}$ $\begin{array}{c} 171\\ 47\\ 23\\ 241\\ \end{array}$ $\begin{array}{c} 171\\ 47\\ 23\\ 241\\ \end{array}$	2.1% 2.2% 15.6% 0.2% 0.3% 0.7% 38.9% 1.4% 3.1% 0.3% 4.8%	1.22 [0.56, 2.65] 0.65 [0.26, 1.64] 1.03 [0.89, 1.19] 1.00 [0.07, 15.04] 2.73 [0.36, 20.97] 1.26 [0.29, 5.53] 1.02 [0.88, 1.17]  2.11 [0.81, 5.49] 0.40 [0.17, 0.96] 1.17 [0.13, 10.67] 0.94 [0.53, 1.67]  0.86 [0.37, 2.03] 1.00 [0.06, 15.49] 3.00 [0.13, 70.02]	
Evaniew 2015 Gerndt 1997 Levy 1996 Matsumoto 2001 Suberviola 2008 Sunshine 2017 Subtotal (95% CI) Total events Heterogeneity: Chi² = 1 Test for overall effect:  2.1.5 Wound infection Bracken 1990 Gerndt 1997 Suberviola 2008 Subtotal (95% CI) Total events Heterogeneity: Chi² = 6 Test for overall effect:  2.1.6 Sepsis Bracken 1990 Evaniew 2015 Matsumoto 2001 Suberviola 2008	11 9 45 1 7 4 151 2.18, df = Z = 0.25 1 2 8 3 5.48, df = Z = 0.20	44 93 55 23 59 160 596 = 6 (P - (P = 0 93 314 = 2 (P = 0 162 94 44 23 59	9 7 144 1 1 3 244 = 0.90); 880) 6 10 1 1 7 = 0.04); 884)	44 47 1811 23 23 151 640 1 <sup>2</sup> = 0% 171 47 23 241 1 <sup>2</sup> = 699	2.1% 2.2% 15.6% 0.2% 0.3% 0.7% 38.9% 1.4% 3.1% 0.3% 4.8%	1.22 [0.56, 2.65] 0.65 [0.26, 1.64] 1.03 [0.89, 1.19] 1.00 [0.07, 15.04] 2.73 [0.36, 20.97] 1.26 [0.29, 5.53] 1.02 [0.88, 1.17]  2.11 [0.81, 5.49] 0.40 [0.17, 0.96] 1.17 [0.13, 10.67] 0.94 [0.53, 1.67]  0.86 [0.37, 2.03] 1.00 [0.06, 15.49] 3.00 [0.13, 70.02] 1.56 [0.36, 6.80]	•
Evaniew 2015 Gerndt 1997 Levy 1996 Matsumoto 2001 Suberviola 2008 Sunshine 2017 Subtotal (95% CI) Total events Heterogeneity: Chi² = 2 Test for overall effect:  2.1.5 Wound infection Bracken 1990 Gerndt 1997 Suberviola 2008 Subtotal (95% CI) Total events Heterogeneity: Chi² = 6 Test for overall effect:  2.1.6 Sepsis Bracken 1990 Evaniew 2015 Matsumoto 2001 Suberviola 2008 Subtotal (95% CI)	11 9 45 1 7 4 151 2.18, df = Z = 0.25 12 8 3 3 5.48, df = Z = 0.20	44 93 55 23 59 160 <b>596</b> = 6 (P = 0 (P = 0 162 93 314 = 2 (P = 0	9 7 144 1 1 3 244 = 0.90);   .80) 6 10 1 17 = 0.04);   .84) 11 1 0 2	$\begin{array}{c} 44\\ 47\\ 181\\ 23\\ 23\\ 151\\ 640\\ \end{array}$ $\begin{array}{c} 171\\ 47\\ 23\\ 241\\ \end{array}$ $\begin{array}{c} 171\\ 47\\ 23\\ 241\\ \end{array}$	2.1% 2.2% 15.6% 0.2% 0.3% 0.7% 38.9% 1.4% 3.1% 0.3% 4.8%	1.22 [0.56, 2.65] 0.65 [0.26, 1.64] 1.03 [0.89, 1.19] 1.00 [0.07, 15.04] 2.73 [0.36, 20.97] 1.26 [0.29, 5.53] 1.02 [0.88, 1.17]  2.11 [0.81, 5.49] 0.40 [0.17, 0.96] 1.17 [0.13, 10.67] 0.94 [0.53, 1.67]  0.86 [0.37, 2.03] 1.00 [0.06, 15.49] 3.00 [0.13, 70.02]	•
Evaniew 2015 Gerndt 1997 Levy 1996 Matsumoto 2001 Suberviola 2008 Sunshine 2017 Subtotal (95% CI) Total events Heterogeneity: Chi² = 1 Test for overall effect:  2.1.5 Wound infection Bracken 1990 Gerndt 1997 Suberviola 2008 Subtotal (95% CI) Total events Heterogeneity: Chi² = 6 Test for overall effect:  2.1.6 Sepsis Bracken 1990 Evaniew 2015 Matsumoto 2001 Suberviola 2008	11 9 45 1 7 4 151 2.18, df = Z = 0.25 12 8 3 3.48, df = 0.20 9 1 1 8 19 191, df = 3 191, df	44 93 55 23 59 160 <b>596</b> (P = 0 162 93 59 <b>314</b> = 2 (P = 0 162 44 23 59 <b>288</b> = 3 (P = 3	9 7 144 1 1 3 244 = 0.90); 80) 6 10 1 1 7 = 0.04); 84) 11 1 0 2 2 14 = 0.82);	$\begin{array}{c} 44 \\ 47 \\ 181 \\ 23 \\ 23 \\ 151 \\ 640 \\ \end{array}$ $\begin{array}{c} 171 \\ 47 \\ 23 \\ 241 \\ \end{array}$ $\begin{array}{c} 171 \\ 44 \\ 23 \\ 23 \\ 261 \\ \end{array}$	2.1% 2.2% 15.6% 0.2% 0.3% 3.0.7% 38.9% 1.4% 3.1% 0.3% 4.8% 8	1.22 [0.56, 2.65] 0.65 [0.26, 1.64] 1.03 [0.89, 1.19] 1.00 [0.07, 15.04] 2.73 [0.36, 20.97] 1.26 [0.29, 5.53] 1.02 [0.88, 1.17]  2.11 [0.81, 5.49] 0.40 [0.17, 0.96] 1.17 [0.13, 10.67] 0.94 [0.53, 1.67]  0.86 [0.37, 2.03] 1.00 [0.06, 15.49] 3.00 [0.13, 70.02] 1.56 [0.36, 6.80]	*
Evaniew 2015 Gerndt 1997 Levy 1996 Matsumoto 2001 Suberviola 2008 Sunshine 2017 Subtotal (95% CI) Total events Heterogeneity: Chi² = 1 Test for overall effect:  2.1.5 Wound infection Bracken 1990 Gerndt 1997 Suberviola 2008 Subtotal (95% CI) Total events Heterogeneity: Chi² = 1 Test for overall effect:  2.1.6 Sepsis Bracken 1990 Evaniew 2015 Matsumoto 2001 Suberviola 2008 Subtotal (95% CI) Total events Heterogeneity: Chi² = 1 Test for overall effect:  2.1.6 Sepsis Bracken 1990 Evaniew 2015 Matsumoto 2001 Suberviola 2008 Subtotal (95% CI) Total events Heterogeneity: Chi² = 1 Test for overall effect:  2.1.7 Decubiti	11 9 45 1 7 4 151 2.18, df = 2 Z = 0.25 12 8 3 3 3.48, df = 2 Z = 0.20 9 1 1 8 19 19 19 19 19 19 19 19 19 19	44 93 55 23 59 160 596 = 6 (P = 0 162 93 314 = 2 (P = 0 44 23 35 288 = 3 (P = 0	9 7 144 1 1 3 3 244 = 0.90);   .80) 6 10 1 17 = 0.04);   .84) 11 1 0 2 2 14 = 0.82);   .83)	$\begin{array}{c} 44\\ 47\\ 181\\ 23\\ 23\\ 151\\ 640\\ \end{array}$ $\begin{array}{c} 171\\ 47\\ 23\\ 241\\ \end{array}$ $\begin{array}{c} 171\\ 47\\ 23\\ 241\\ \end{array}$ $\begin{array}{c} 171\\ 44\\ 23\\ 261\\ \end{array}$ $\begin{array}{c} 171\\ 44\\ 23\\ 261\\ \end{array}$	2.1% 2.2% 15.6% 0.2% 0.3% 0.7% 38.9% 1.4% 3.1% 0.3% 4.8% 8	1.22 [0.56, 2.65] 0.65 [0.26, 1.64] 1.03 [0.89, 1.19] 1.00 [0.07, 15.04] 2.73 [0.36, 20.97] 1.26 [0.29, 5.53] 1.02 [0.88, 1.17]  2.11 [0.81, 5.49] 0.40 [0.17, 0.96] 1.17 [0.13, 10.67] 0.94 [0.53, 1.67]  0.86 [0.37, 2.03] 1.00 [0.06, 15.49] 3.00 [0.13, 70.02] 1.56 [0.36, 6.80] 1.08 [0.54, 2.14]	•
Evaniew 2015 Gerndt 1997 Levy 1996 Matsumoto 2001 Suberviola 2008 Sunshine 2017 Subtotal (95% CI) Total events Heterogeneity: Chi² = : Test for overall effect:  2.1.5 Wound infection Bracken 1990 Gerndt 1997 Suberviola 2008 Subtotal (95% CI) Total events Heterogeneity: Chi² = : Test for overall effect:  2.1.6 Sepsis Bracken 1990 Evaniew 2015 Matsumoto 2001 Subtotal (95% CI) Total events Heterogeneity: Chi² = : Test for overall effect:  2.1.6 Sepsis Bracken 1990 Evaniew 2015 Matsumoto 2001 Subtotal (95% CI) Total events Heterogeneity: Chi² = : Test for overall effect:  2.1.7 Decubiti Bracken 1990	11 9 45 1 7 4 151 2.18, df = Z = 0.25 12 8 3 3 3.48, df = Z = 0.20 9 1 1 8 19 0.91, df = Z = 0.21	44 93 55 23 59 160 <b>596</b> (P = 0 162 93 59 <b>314</b> = 2 (P = 0 162 44 23 59 <b>288</b> = 3 (P = 0	9 7 144 1 1 3 244 = 0.90); 880)  6 10 1 17 = 0.04); 8.84)  11 1 0 2 2 14 = 0.82); 8.83)	$\begin{array}{c} 44\\ 47\\ 181\\ 23\\ 23\\ 151\\ 640\\ \end{array}$ $\begin{array}{c} 171\\ 47\\ 23\\ 241\\ \end{array}$ $\begin{array}{c} 171\\ 44\\ 23\\ 23\\ 261\\ \end{array}$ $\begin{array}{c} 171\\ 44\\ 23\\ 23\\ \end{array}$ $\begin{array}{c} 261\\ 171\\ \end{array}$	2.1% 2.2% 15.6% 0.2% 0.3% 0.7% 38.9% 1.4% 3.1% 0.3% 4.8% %	1.22 [0.56, 2.65] 0.65 [0.26, 1.64] 1.03 [0.89, 1.19] 1.00 [0.07, 15.04] 2.73 [0.36, 20.97] 1.26 [0.29, 5.53] 1.02 [0.88, 1.17]  2.11 [0.81, 5.49] 0.40 [0.17, 0.96] 1.17 [0.13, 10.67] 0.94 [0.53, 1.67]  0.86 [0.37, 2.03] 1.00 [0.06, 15.49] 3.00 [0.13, 70.02] 1.56 [0.36, 6.80] 1.08 [0.54, 2.14]	**************************************
Evaniew 2015 Gerndt 1997 Levy 1996 Matsumoto 2001 Suberviola 2008 Sunshine 2017 Subtotal (95% CI) Total events Heterogeneity: Chi² = : Test for overall effect:  2.1.5 Wound infection Bracken 1990 Gerndt 1997 Suberviola 2008 Subtotal (95% CI) Total events Heterogeneity: Chi² = : Test for overall effect:  2.1.6 Sepsis Bracken 1990 Evaniew 2015 Matsumoto 2001 Suberviola 2008 Subtotal (95% CI) Total events Heterogeneity: Chi² = : Test for overall effect:  2.1.6 Sepsis Bracken 1990 Evaniew 2015 Total events Heterogeneity: Chi² = : Test for overall effect:  2.1.7 Decubiti Bracken 1990 Evaniew 2015	11 9 45 1 7 4 151 2.18, df = Z = 0.25 12 8 3 3.48, df = 0.20 9 1 1 8 19 2.91, df = Z = 0.21 30 6	44 93 55 23 59 160 <b>596</b> 6 (P = 0 162 93 314 = 2 (P = 0 162 44 23 59 <b>288</b> = 3 (P = 0	9 7 144 1 1 3 244 = 0.90); 1.80) 6 10 1 1 7 = 0.04); 1.84) 11 1 0 2 2 14 = 0.82); 1.83) 33 2	$\begin{array}{c} 44\\ 47\\ 181\\ 23\\ 23\\ 151\\ 640\\ \end{array}$ $\begin{array}{c} 171\\ 47\\ 23\\ 241\\ \end{array}$ $\begin{array}{c} 171\\ 44\\ 23\\ 23\\ 261\\ \end{array}$ $\begin{array}{c} 171\\ 44\\ 23\\ 23\\ \end{array}$ $\begin{array}{c} 261\\ 171\\ 44\\ \end{array}$	2.1% 2.2% 15.6% 0.2% 0.3% 0.7% 38.9% 1.4% 3.1% 0.3% 4.8% %	1.22 [0.56, 2.65] 0.65 [0.26, 1.64] 1.03 [0.89, 1.19] 1.00 [0.07, 15.04] 2.73 [0.36, 20.97] 1.26 [0.29, 5.53] 1.02 [0.88, 1.17]  2.11 [0.81, 5.49] 0.40 [0.17, 0.96] 1.17 [0.13, 10.67] 0.94 [0.53, 1.67]  0.86 [0.37, 2.03] 1.00 [0.06, 15.49] 3.00 [0.13, 70.02] 1.56 [0.36, 6.80] 1.08 [0.54, 2.14]  0.96 [0.61, 1.50] 3.00 [0.64, 14.06]	*
Evaniew 2015 Gerndt 1997 Levy 1996 Matsumoto 2001 Suberviola 2008 Sunshine 2017 Subtotal (95% CI) Total events Heterogeneity: Chi² = : 2.1.5 Wound infection Bracken 1990 Gerndt 1997 Suberviola 2008 Subtotal (95% CI) Total events Heterogeneity: Chi² = : Test for overall effect:  2.1.6 Sepsis Bracken 1990 Evaniew 2015 Matsumoto 2001 Suberviola 2008 Subtotal (95% CI) Total events Heterogeneity: Chi² = : Test for overall effect:  2.1.6 Sepsis Bracken 1990 Evaniew 2015 Total events Heterogeneity: Chi² = : Test for overall effect:  2.1.7 Decubiti Bracken 1990 Evaniew 2015 Matsumoto 2001 Subarviola 2008 Subtotal (95% CI) Total events Heterogeneity: Chi² = : Test for overall effect:  2.1.7 Decubiti Bracken 1990 Evaniew 2015 Matsumoto 2001	11 9 45 1 7 4 151 2.18, df = Z = 0.25 12 8 3 3 3.48, df = Z = 0.20 9 1 1 8 19 0.91, df = Z = 0.21	444 93 55 23 59 1600 596   6 (P = 0 0 162 93 59 314   162 44 23 59 288   8 3 (P = 0 0 0 162 44 23 59 288 64 24 23 59 288 64 24 23 64 23 64 23 64 23 64 23 65 66 66 66 66 66 66 66 66 66 66 66 66	9 7 144 1 1 3 244 = 0.90); 880)  6 10 1 17 = 0.04); 8.84)  11 1 0 2 2 14 = 0.82); 8.83)	44 47 1811 23 23 151 640 171 47 23 241 1 <sup>2</sup> = 699 171 44 23 23 261 171 44 23 241 261	2.1% 2.2% 15.6% 0.2% 0.3% 0.7% 38.9% 1.4% 3.1% 0.3% 4.8% 6 2.5% 0.2% 0.1% 0.7% 3.5%	1.22 [0.56, 2.65] 0.65 [0.26, 1.64] 1.03 [0.89, 1.19] 1.00 [0.07, 15.04] 2.73 [0.36, 20.97] 1.26 [0.29, 5.53] 1.02 [0.88, 1.17]  2.11 [0.81, 5.49] 0.40 [0.17, 0.96] 1.17 [0.13, 10.67] 0.94 [0.53, 1.67]  0.86 [0.37, 2.03] 1.00 [0.06, 15.49] 3.00 [0.13, 70.02] 1.56 [0.36, 6.80] 1.08 [0.54, 2.14]  0.96 [0.61, 1.50] 3.00 [0.64, 14.06] 0.33 [0.01, 7.78]	•
Evaniew 2015 Gerndt 1997 Levy 1996 Matsumoto 2001 Suberviola 2008 Sunshine 2017 Subtotal (95% CI) Total events Heterogeneity: Chi² = : Test for overall effect:  2.1.5 Wound infection Bracken 1990 Gerndt 1997 Suberviola 2008 Subtotal (95% CI) Total events Heterogeneity: Chi² = : Test for overall effect:  2.1.6 Sepsis Bracken 1990 Evaniew 2015 Matsumoto 2001 Suberviola 2008 Subtotal (95% CI) Total events Heterogeneity: Chi² = : Test for overall effect:  2.1.6 Sepsis Bracken 1990 Evaniew 2015 Total events Heterogeneity: Chi² = : Test for overall effect:  2.1.7 Decubiti Bracken 1990 Evaniew 2015	11 9 45 1 7 4 151 2.18, df = Z = 0.25 12 8 3 3.48, df = 0.20 9 1 1 8 19 2.91, df = Z = 0.21 30 6	44 93 55 23 59 160 <b>596</b> 6 (P = 0 162 93 314 = 2 (P = 0 162 44 23 59 <b>288</b> = 3 (P = 0	9 7 144 1 1 3 244 = 0.90); 1.80) 6 10 1 1 7 = 0.04); 1.84) 11 1 0 2 2 14 = 0.82); 1.83) 33 2	$\begin{array}{c} 44\\ 47\\ 181\\ 23\\ 23\\ 151\\ 640\\ \end{array}$ $\begin{array}{c} 171\\ 47\\ 23\\ 241\\ \end{array}$ $\begin{array}{c} 171\\ 44\\ 23\\ 23\\ 261\\ \end{array}$ $\begin{array}{c} 171\\ 44\\ 23\\ 23\\ \end{array}$ $\begin{array}{c} 261\\ 171\\ 44\\ \end{array}$	2.1% 2.2% 15.6% 0.2% 0.3% 0.7% 38.9% 1.4% 3.1% 0.3% 4.8% %	1.22 [0.56, 2.65] 0.65 [0.26, 1.64] 1.03 [0.89, 1.19] 1.00 [0.07, 15.04] 2.73 [0.36, 20.97] 1.26 [0.29, 5.53] 1.02 [0.88, 1.17]  2.11 [0.81, 5.49] 0.40 [0.17, 0.96] 1.17 [0.13, 10.67] 0.94 [0.53, 1.67]  0.86 [0.37, 2.03] 1.00 [0.06, 15.49] 3.00 [0.13, 70.02] 1.56 [0.36, 6.80] 1.08 [0.54, 2.14]  0.96 [0.61, 1.50] 3.00 [0.64, 14.06]	*

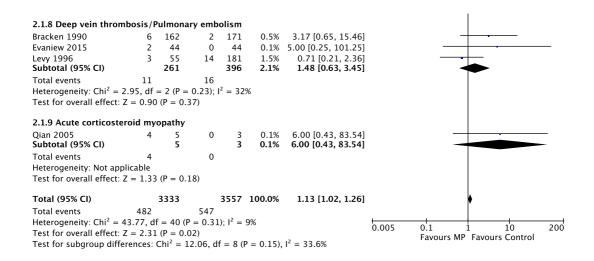


Figure e-2. Incidence of adverse events in MP versus control groups

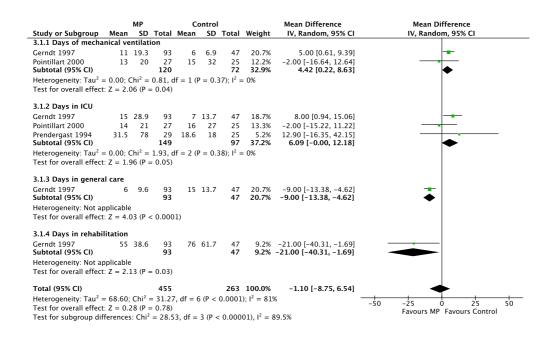


Figure e-3. In-hospital costs in MP versus control groups