Forest plots for review question: What intraoperative or postoperative interventions are effective at preventing otorrhoea (ear discharge) after surgery for OME-related hearing loss in children under 12 years?

This section includes forest plots only for outcomes that are meta-analysed. Outcomes from single studies are not presented here; the quality assessment for such outcomes is provided in the GRADE profiles in appendix F.

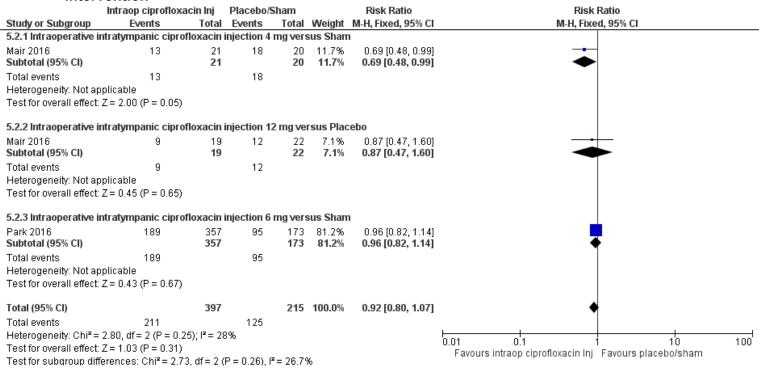
Figure 2: Intraoperative intratympanic ciprofloxacin injection versus placebo/sham: Otorrhoea

Intra	aop ciproflox	acin Inj	Placebo/	Sham		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
5.1.1 Intraoperative intraty	mpanic cipro	ofloxacin	injection 4	mg ver	sus Shan	n	
Mair 2016 Subtotal (95% CI)	2	21 21	5	20 20	7.6% 7.6 %	0.38 [0.08, 1.74] 0.38 [0.08, 1.74]	
Total events	2		5				
Heterogeneity: Not applical Test for overall effect: Z = 1							
5.1.2 Intraoperative intraty	mpanic cipro	ofloxacin	injection 1	2 mg ve	rsus Pla	cebo	
Mair 2016 Subtotal (95% CI)	2	19 19	8	22 22		0.29 [0.07, 1.20] 0.29 [0.07, 1.20]	
Total events Heterogeneity: Not applical Test for overall effect: Z= 1			8				
5.1.3 Intraoperative intraty	mpanic cipro	ofloxacin	injection 6	mg ver	sus Shan	n	
Park 2016 Subtotal (95% CI)	37	352 352	41	_	81.4%	0.45 [0.30, 0.67]	*
Total events Heterogeneity: Not applical	37 ble		41				
Test for overall effect: Z = 3		01)					
Total (95% CI)		392		216	100.0%	0.42 [0.29, 0.62]	•
Total events	41		54				
Heterogeneity: Chi² = 0.36, Test for overall effect: Z = 4	,		%				0.01 0.1 10
Test for subgroup differenc	•	,	P = 0.84), I	l² = 0%			Favours intraop ciprofloxacin Inj Favours placebo/sham

Mair 2016 was a 4-arm trial. In the analyses we paired the 2 active treatment groups randomly with the placebo/sham groups, and we then conducted sensitivity analyses swapping the Sham/Placebo pairings with the 4 and 12 mg active treatment groups over to assess the impact of the original pairing. These analyses showed for the following comparisons: Intraoperative intratympanic ciprofloxacin injection 4 mg versus Placebo: 0.26 [0.06, 1.09]; Intraoperative intratympanic ciprofloxacin injection 12 mg versus Sham: 0.42 [0.09, 1.92]; Intraoperative intratympanic ciprofloxacin injection 6 mg versus Sham: 0.45 [0.30, 0.67]; Overall effect: 0.42 [0.29, 0.62]. Cl: confidence interval; Inj: injection; Intraope: intraoperative; M-H: Mantel-Haenszel

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Figure 3: Intraoperative intratympanic ciprofloxacin injection versus placebo/sham: Adverse effects of intervention



Mair 2016 was a 4-arm trial. In the analyses we paired the 2 active treatment groups randomly with the placebo/sham groups, and we then conducted sensitivity analyses swapping the Sham/Placebo pairings with the 4 and 12 mg active treatment groups over to assess the impact of the original pairing. These analyses showed for the following comparisons: Intraoperative intratympanic ciprofloxacin injection 4 mg versus Placebo: 1.13 [0.68, 1.89]; Intraoperative intratympanic ciprofloxacin injection 12 mg versus Sham: 0.53 [0.32, 0.86]; Intraoperative intratympanic ciprofloxacin injection 6 mg versus Sham: 0.96 [0.82, 1.14]; Overall effect: 0.85 [0.59, 1.25]. CI: confidence interval; Inj: injection; Intraope: intraoperative; M-H: Mantel-Haenszel