Table 52: Clinical evidence profile: Comparison 3. Azithromycin versus placebo

Quality	y assessmer	No of patien	te	Effect								
No of studi	Design	Risk of bias	Inconsisten cy	Indirectne ss	Imprecisi on	Other consideratio ns	Azithromy cin versus placebo		Relati ve (95% CI)	Absol ute	Quality	Importance
Time t	o next exace	rbation	(follow-up me	an 6 months	; assessed v	vith: time free o	of exacerbatio	n)				
2 (Sai man 2003, Saim an 2010)	d trials	no serio us risk of bias	no serious inconsistenc y	istenc indirectnes serious	serious imprecisio	none	104/218 (47.7%)1	79/22 7 (34.8 %)	HR 0.59 (0.44 to 0.79)	fewer per 1000 (from 61 fewer to 176 fewer)	HIGH	CRITICAL
								34.83 %		125 fewer per 1000 (from 61 fewer to 177 fewer)		
Time t	o next exace	rbation	(follow-up 12	months)						,		
1 (Cle ment 2006)	randomise d trials	no serio us risk of bias	no serious inconsistenc y	no serious indirectnes s	no serious imprecisio n	none	14/40 (35%)1	2/42 (4.8%)	HR 0.37 (0.217 to 0.629 9) ¹	30 fewer per 1000 (from 17 fewer to 37 fewer)	HIGH	CRITICAL

Qualit	y assessmer	nt					No of patients		Effect			
No of studi es	Design	Risk of bias	Inconsisten cy	Indirectne ss	Imprecisi on	Other consideratio ns	Azithromy cin versus placebo		Relati ve (95% CI)	Absol ute	Quality	Importance
								3.6%		fewer per 1000 (from 13 fewer to 28 fewer)		
Mild a	dverse effec	ts of an	tibiotic treatme	ent - Hearing	impairment	(follow-up: 6 m	ionths)					
1 (Sai man 2003)	randomise d trials	no serio us risk of bias	no serious inconsistenc y	no serious indirectnes s	very serious ²	none	1/87 (1.1%)	1/98 (1%)	RR 1.13 (0.07 to 17.74)	1 more per 1000 (from 9 fewer to 171 more)	LOW	CRITICAL
Mild a	dverse effec	ts of an	tibiotic treatme	ent – Tinnitus	(follow-up:	6 months)						
1 (Sai man 2003)	randomise d trials	no serio us risk of bias	no serious inconsistenc y	no serious indirectnes s	very serious ²	none	1/87 (1.1%)	1/98 (1%)	RR 1.13 (0.07 to 17.74)	1 more per 1000 (from 9 fewer to 171 more)	LOW	CRITICAL
Chang	ge in BMI z so	core (fo	llow-up 12 moi	nths; Better i	ndicated by	higher values)						
1 (Cle ment	randomise d trials	no serio us risk	no serious inconsistenc y	no serious indirectnes s	serious ³	none	40	42	-	MD 0.15 higher (0.03	MODERAT E	IMPORTAN T

Quality	y assessmer	nt					No of patients		Effect			
No of studi es	Design	Risk of bias	Inconsisten cy	Indirectne ss	Imprecisi on	Other consideratio ns	Azithromy cin versus placebo		Relati ve (95% CI)	Absol ute	Quality	Importance
2006)		of bias								lower to 0.33 higher)	-	
Chang	e in weight (kg) (Fol	llow-up: 6 mon	ths; Better ir	ndicated by	higher values)						
2 (Sai man 2003, Saim an 2010	randomise d trials	no serio us risk of bias	no serious inconsistenc y	no serious indirectnes s	serious ³	none	216	224	-	MD 0.62 higher (0.26 to 0.98 higher)	MODERAT E	IMPORTAN T
Quality	y of life: cha	nge in C	FQ-R total (fol	low-up 6 mo	nths; range	of scores: 0-10	0; Better indi	cated by	higher v	alues)		
1 (Sai man 2003)	randomise d trials	no serio us risk of bias	no serious inconsistenc y	no serious indirectnes s	no serious imprecisio n	none	85	92	-	MD 1.6 higher (0.61 lower to 3.81 higher)	HIGH	IMPORTAN T
Quality	y of life: cha	nge in C	FQ-R physical	domain sco	re (follow-u	p 6 months; ran	ge of scores:	0-100; E	Better inc	licated by	higher value	es)
1 (Sai man 2003	randomise d trials	no serio us risk of bias	no serious inconsistenc y	no serious indirectnes s	no serious imprecisio n	none	85	92	-	MD 2.7 higher (0.09 to 5.31 higher)	HIGH	IMPORTAN T
Quality	y of life: cha	nge in C	FQ-R psychos	ocial domair	n score (follo	ow-up 6 months	s; range of sc	ores: 0-1	100; Bett	er indicate	ed by higher	values)
1 (Sai	randomise d trials	no serio us	no serious inconsistenc	no serious indirectnes s	no serious	none	85	92	-	MD 0.4 higher (3	HIGH	IMPORTAN T

Quality assessment								No of patients				
No of studi es	Design	Risk of bias	Inconsisten cy	Indirectne ss	Imprecisi on	Other consideratio ns	Azithromy cin versus placebo		Relati ve (95% CI)	Absol ute	Quality	Importance
man 2003		risk of bias			imprecisio n					lower to 3.8 higher)		
Quality	y of life: cha	nge in C	FQ-R body im	age domain	score (follov	v-up 6 months;	range of sco	res: 0-10	0; Better	indicated	d by higher va	alues)
1 (Sai man 2003	randomise d trials	no serio us risk of bias	no serious inconsistenc y	no serious indirectnes s	no serious imprecisio n	none	85	92	-	MD 3.2 higher (0.24 lower to 6.64 higher)	HIGH	IMPORTAN T

Abbreviations: BMI: body mass index; CFQ-R: cystic fibrosis questionnaire revised; CI: confidence interval; MD: mean difference; RR: risk ratio 1 Calculated by the NGA technical team from probability of remaining free from exacerbation.

² The quality of the evidence downgraded by 2 as 95% CI crossed 2 default MIDs. 3 The quality of the evidence downgraded by 1 as 95% CI crossed 1 default MID.