Quality as	sessmen	t					No of patie	nts	Effect		Qual ity	
No of studies	Design	Risk of bias	Inconsisten cy	Indirectne ss	Imprecisi on	Other consideratio ns	Tobramyc in inhalation powder (TOBI DPI)	Tobramyc in inhalation solution (TOBI neb)	Relati ve (95% Cl)	Absolu te		Importance
Lung fund	ction: % n	nean ch	ange in FEV₁%	predicted (fo	ollow-up: 4 w	veeks; range of	scores: 0-10	0; Better indi	cated by	higher va	lues)	
1 (Konsta n 2011a/E AGER trial)	random ised trials	serio us ¹	no serious inconsistenc y	no serious indirectnes s	serious ²	none	308	209	-	MD 0.8 lower (3.90 lower to 2.30 higher)	LOW	IMPORTAN T
Lung fund	ction: % n	nean ch	ange in FEV₁%	predicted (fo	ollow-up: 20	weeks; range o	f scores: 0-1	00; Better inc	licated b	y higher v	alues)	
1 (Konsta n 2011a/E AGER trial)	random ised trials	serio us ¹	no serious inconsistenc y	no serious indirectnes s	serious ²	none	308	209	-	MD 1.10 higher (2.33 lower to 4.53 higher)	LOW	IMPORTAN T
Lung fund	ction: % n	nean ch	ange in FEV₁%	predicted (fo	ollow-up: 24	weeks; range o	f scores: 0-1	00; Better inc	licated b	y higher v	alues)	
1	random ised	serio us¹	no serious inconsistenc y	no serious indirectnes s	serious ²	none	308	209	-	MD 2.20 lower (1.11 to	LOW	IMPORTAN T

Table 44: Clinical evidence profile: Comparison 4.2. Tobramycin inhalation powder versus Tobramycin inhalation solution

Quality a	Quality assessment						No of patients		Effect			
No of studies	Design	Risk of bias	Inconsisten cy	Indirectne ss	Imprecisi on	Other consideratio ns	Tobramyc in inhalation powder (TOBI DPI)	Tobramyc in inhalation solution (TOBI neb)	Relati ve (95% Cl)	Absolu te	Qual ity	Importance
1 (Konsta n 2011a/E AGER trial)	random ised trials	serio us ¹	no serious inconsistenc y	no serious indirectnes s	no serious imprecisio n	none	308	209	-	MD 0.44 lower (0.79 to 0.09 lower)	MOD ERA TE	IMPORTAN T
Suppress	sion of the	organis	sm: mean char	ige in <i>P aeru</i> g	ginosa sputu	im density log1	0 CFU (follow	v-up 20 week	s; Better	[·] indicated	l by higł	ner values)
1 (Konsta n 2011a/E AGER trial)	random ised trials	serio us ¹	no serious inconsistenc y	no serious indirectnes s	serious ³	none	308	209	-	MD 0.84 lower (1.17 to 0.51 lower)	LOW	IMPORTAN T
Adverse	events: ar	ny mild o	or moderate ad	verse (follow	v-up 24 week	s)						
1 (Konsta n 2011a/E AGER trial)	random ised trials	serio us ¹	no serious inconsistenc y	no serious indirectnes s	no serious imprecisio n	none	226/308 (73.4%)	143/209 (68.4%)	RR 1.07 (0.96 to 1.2)	48 more per 1000 (from 27 fewer to 137 more)	MOD ERA TE	IMPORTAN T
Adverse	events: ar	ny serio	us adverse (fol	low-up 24 we	eks)							
1 (Konsta n 2011a/E	random ised trials	serio us ¹	no serious inconsistenc y	no serious indirectnes s	serious ³	none	84/308 (27.3%)	61/209 (29.2%)	RR 0.93 (0.71	20 fewer per 1000	LOW	IMPORTAN T

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Quality a	uality assessment						No of patients		Effect			
No of studies	Design	Risk of bias	Inconsisten cy	Indirectne ss	Imprecisi on	Other consideratio ns	Tobramyc in inhalation powder (TOBI DPI)	Tobramyc in inhalation solution (TOBI neb)	Relati ve (95% Cl)	Absolu te	Qual ity	Importance
AGER trial)									to 1.24)	(from 85 fewer to 70 more)		
Mild adve	erse event	s: produ	uctive cough (f	ollow-up 24 v	veeks)							
1 (Konsta n 2011a/E AGER trial)	random ised trials	serio us ¹	no serious inconsistenc y	no serious indirectnes s	very serious ⁴	none	56/308 (18.2%)	41/209 (19.6%)	RR 0.93 (0.64 to 1.33)	14 fewer per 1000 (from 71 fewer to 65 more)	VER Y LOW	IMPORTAN T
Mild adve	erse event	s: head	ache (follow-uj	o 24 weeks)								
1 (Konsta n 2011a/E AGER trial)	random ised trials	serio us ¹	no serious inconsistenc y	no serious indirectnes s	very serious ⁴	none	35/308 (11.4%)	25/209 (12%)	RR 0.95 (0.59 to 1.54)	6 fewer per 1000 (from 49 fewer to 65 more)	VER Y LOW	IMPORTAN T
Mild adve	erse event	s: vomi	ting (follow-up	24 weeks)								
1 (Konsta n 2011a/E	random ised trials	serio us¹	no serious inconsistenc y	no serious indirectnes s	very serious ⁴	none	19/308 (6.2%)	12/209 (5.7%)	RR 1.07 (0.53	4 more per 1000 (from	VER Y LOW	IMPORTAN T

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Quality a	ssessmer	it					No of patie	nts	Effect			Importance
No of studies	Design	Risk of bias	Inconsisten cy	Indirectne ss	Imprecisi on	Other consideratio ns	Tobramyc in inhalation powder (TOBI DPI)	Tobramyc in inhalation solution (TOBI neb)	Relati ve (95% Cl)	Absolu te	Qual ity	
AGER trial)	_								to 2.17)	27 fewer to 67 more)		
Serious a	adverse ev	vents: d	yspnoea (follov	w-up 24 week	s)							
1 (Konsta n 2011a/E AGER trial)	random ised trials	serio us ¹	no serious inconsistenc y	no serious indirectnes s	very serious ⁴	none	48/308 (15.6%)	26/209 (12.4%)	RR 1.25 (0.8 to 1.95)	31 more per 1000 (from 25 fewer to 118 more)	VER Y LOW	IMPORTAN T
Serious a	adverse ev	vents: h	aemoptysis (fo	llow-up 24 w	eeks)							
1 (Konsta n 2011a/E AGER trial)	random ised trials	serio us ¹	no serious inconsistenc y	no serious indirectnes s	very serious ⁴	none	40/308 (13%)	26/209 (12.4%)	RR 1.04 (0.66 to 1.66)	5 more per 1000 (from 42 fewer to 82 more)	VER Y LOW	IMPORTAN T

Abbreviations: CFU: colony forming units; CI: confidence interval; FEV1: forced expiratory volume in 1 second; MD: mean difference; RR: risk ratio

1 The quality of the evidence was downgraded by 1 as this was an open trial, and randomisations was unclear 2 The quality of the evidence was downgraded by 1 as the 95% CI crossed 1 clinical MID

3 The quality of the evidence was downgraded by 1 as the 95% CI crossed 1 default MID 4 The quality of the evidence was downgraded by 2 as the 95% CI crossed 2 default MIDs