Table 85: Clinical evidence profile: Comparison 3. High-intensity interval training versus standard aerobic and anaerobic exercise programme

	programme	<del>-</del>										
Quality	y assessment						No of patie	nte	Effect			
No of studi es	Design	Risk of bias	Inconsistenc y	Indirectnes s	Imprecisio n	Other consideration s	High intensity interval training programm e	Standard combined aerobic and anaerobic exercise programm e	Relati ve (95% CI)	Absolu te	Qual ity	Importance
Chang	e in FEV <sub>1</sub> - <i>Un</i>	supervis	ed programme	)								
No evid	dence available	;										
Chang	e in FEV₁% pr	edicted -	Supervised pr	ogramme (fo	ollow-up 6 w	eeks; range of	scores: 0-100	); Better ind	icated by	higher v	alues)	
1 (Gru ber 2014 )	observation al studies	very seriou s <sup>1</sup>	no serious inconsistenc y	no serious indirectnes s	serious <sup>2</sup>	none	20	23	-	MD 3.9 lower (7.61 to 0.19 lower) 5	VER Y LOW	CRITICAL
Chang	e in vital capa	city (VC)	% predicted -	Unsupervise	d programm	ie						
No evid	dence available	;										
Chang	e in vital capa	city (VC)	% predicted -	Supervised	orogramme (	(follow-up 6 we	eks; range o	f scores 0-10	00; Bette	r indicate	d by hig	gher values)
1 (Gru ber 2014 )	observation al studies	very seriou s <sup>1</sup>	no serious inconsistenc y	no serious indirectnes s	serious <sup>3</sup>	none	20	23	-	MD 5.1 lower (11.05 lower to 0.85 higher) 5	VER Y LOW	IMPORTAN T
Chang	e in FEV₁ peal	k										
No evid	dence available	)										

Quality assessment							No of patients		Effect			
No of studi es	Design	Risk of bias	Inconsistenc y	Indirectnes s	Imprecisio n	Other consideration s	High intensity interval training programm e	Standard combined aerobic and anaerobic exercise programm e	Relati ve (95% CI)	Absolu te	Qual ity	Importance
Chang	je in FEV₁ pea	k - Super	vised program	me (follow-u	p 6 weeks; E	Better indicated	by higher va	alues)				
1 (Gru ber 2014 )	observation al studies	very seriou s <sup>1</sup>	no serious inconsistenc y	no serious indirectnes s	serious <sup>3</sup>	none	20	23	-	MD 0.8 lower (4.59 lower to 2.99 higher) 5	VER Y LOW	IMPORTAN T
	o next exacer dence available											
			d programme									
	dence available	_	u programme									
			orogramme (fo	llow-up 6 we	eks: Retter i	ndicated by hig	ther values)					
1 (Gru ber 2014	observation al studies	very seriou s <sup>1</sup>	no serious inconsistenc y	no serious indirectnes s	very serious <sup>4</sup>	none	21	23	-	MD 0 higher (1.34 lower to 1.34 higher) 5	VER Y LOW	IMPORTAN T
)										_		
) Qualit	y of life											
	<b>y of life</b> dence available	е										

Qualit	y assessment						No of patie	nts	Effect			
No of studi	Design	Risk of bias	Inconsistenc y	Indirectnes s	Imprecisio n	Other consideration s	High intensity interval training programm e	Standard combined aerobic and anaerobic exercise programm e	Relati ve (95% CI)	Absolu te	Qual ity	

## **Adverse events**

No evidence available

Abbreviations: BMI: body mass index; CI: confidence interval; CF: cystic fibrosis; FEV<sub>1</sub>: forced expiratory volume in 1 second; VC: vital capacity; kg: kilogrammes MD: mean difference; min: minute; ml: millilitres; FEV<sub>1</sub> max/ peak: maximal oxygen consumption

- 1 The quality of the evidence was downgraded by 2 because of high risk of bias in relation to the selection of the participants for each group and the comparability of the groups
- 2 The quality of the evidence was downgraded by 1 because the 95% CI crossed 1 clinical MID
- 3 The quality of the evidence was downgraded by 1 because the 95% CI crossed 1 default MID
- 4 The quality of the evidence was downgraded by 2 because the 95% CI crossed 2 default MIDs
- 5 Calculated by the NGA technical team