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Table 29: Clinical evidence profile: Corticosteroids (oral hydrocortisone or fludrocortisone, nasal flunisolide) versus placebo

Quality assessment	No of patients	Effect	Quality	Importance
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No of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Corticosteroids (oral hydrocortisone or fludrocortisone, nasal flunisolide) versus placebo	Control	Relative (95% CI)	Absolute			
Quality o	tuality of Life: SF36 physical (follow-up 6 weeks; range of scores: 0-100; Better indicated by higher values)												
1	randomised trials		no serious inconsistency	serious²	serious³	none	20 (fludrocortisone)	20	-	MD 7.6 higher (5.36 lower to 20.56 higher)	⊕OOO VERY LOW	CRITICAL	
Quality o	Quality of Life: SF36 energy or fatigue (follow-up 6 weeks; range of scores: 0-100; Better indicated by higher values)												
1	randomised trials		no serious inconsistency	serious²	serious³	none	20 (fludrocortisone)	20	-	MD 2.1 higher (7.43 lower to 11.63 higher)	⊕000 VERY LOW	CRITICAL	
Quality o	Quality of Life: SF36 emotional wellbeing (follow-up 6 weeks; range of scores: 0-100; Better indicated by higher values)												
1	randomised trials		no serious inconsistency	serious²	serious³	none	20 (fludrocortisone)	20	1	MD 3.8 higher (5.29 lower to 12.89 higher)	⊕OOO VERY LOW	CRITICAL	
Quality o	f Life: SF36 ı	role emot	tional (follow-up	6 weeks; rang	ge of scores: 0	-100; Better indic	ated by higher values)						
1	randomised trials		no serious inconsistency	serious ²	very serious ³	none	20 (fludrocortisone)	20	-	MD 0 higher (14.96 lower to 14.96 higher)	⊕000 VERY LOW	CRITICAL	
Quality o	f Life: SF36 ı	role phys	ical (follow-up 6	weeks; range	of scores: 0-	100; Better indica	ted by higher values)						
1	randomised trials		no serious inconsistency	serious²	serious³	none	20 (fludrocortisone)	20	-	MD 11.8 lower (29.09 lower to 5.49 higher)	⊕OOO VERY LOW	CRITICAL	
Quality o	f Life: SF36	pain (follo	ow-up 6 weeks; r	ange of score	es: 0-100; Bett	er indicated by hi	gher values)						
1	randomised trials		no serious inconsistency	serious²	very serious ³	none	20 (fludrocortisone)	20	-	MD 0.6 lower (15.29 lower to 14.09 higher)	⊕000 VERY LOW	CRITICAL	
Quality o	f life: SF36 s	ocial (fol	low-up 6 weeks;	range of scor	res: 0-100; Bet	ter indicated by h	igher values)						

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1	randomised trials	very serious¹	no serious inconsistency	very serious ⁵	serious ³	none	38 (fludrocortisone)	45	-	MD 0.4 lower (3.43 lower to 2.63 higher)	⊕000 VERY LOW	CRITICAL
Psychological	ogical status	: Beck De	pression Invent	ory (follow-u	12 weeks; rai	nge of scores: 0-0	63; Better indicated by lower valu	es)				
1	randomised trials	serious ¹	no serious inconsistency	serious ²	serious ³	none	34 (hydrocortisone)	34	-	MD 1.7 lower (3.9 lower to 0.5 higher)	⊕OOO VERY LOW	CRITICAL
Psychological	ogical status	: Profile o	of Mood States -	anger (follow	-up 12 weeks;	range of scores:	0-48; Better indicated by lower va	alues)			,	
1	randomised trials	serious ¹	no serious inconsistency	serious ²	no serious imprecision	none	34 (hydrocortisone)	34	-	MD 0.8 lower (2.63 lower to 1.03 higher)	⊕⊕OO LOW	CRITICAL
Psychological	ogical status	: Profile d	of Mood States -	anxiety (follo	w-up 12 weeks	s; range of scores	s: 0-36; Better indicated by lower	values)				
1	randomised trials	serious ¹	no serious inconsistency	serious ²	serious ³	none	34 (hydrocortisone)	34	-	MD 1.3 higher (0.17 lower to 2.77 higher)	⊕OOO VERY LOW	CRITICAL
Psycholo	ogical status	: Profile o	of Mood States -	confusion (fo	llow-up 12 we	eks; range of sco	res: 0-28; Better indicated by low	er value	s)		·	
1	randomised trials	serious ¹	no serious inconsistency	serious ²	no serious imprecision	none	34 (hydrocortisone)	34	-	MD 0.3 higher (1.18 lower to 1.78 higher)	⊕⊕OO LOW	CRITICAL
Psycholo	ogical status	: Profile o	of Mood States -	depression (1	follow-up 12 w	eeks; range of sc	ores: 0-60; Better indicated by lov	wer valu	es)			
1	randomised trials	serious ¹	no serious inconsistency	serious ²	serious ¹	none	34 (hydrocortisone)	34	-	MD 1.6 lower (3.61 lower to 0.41 higher)	⊕OOO VERY LOW	CRITICAL
Psychological	ogical status	: Sympto	m checklist-90-R	general sens	sitivity index (f	follow-up 12 weel	s; range of scores: not reported;	Better i	ndicated by	lower values)		
1	randomised trials	serious ¹	no serious inconsistency	serious ²	no serious imprecision	none	34 (hydrocortisone)	34	-	MD 0 higher (0.1 lower to 0.1 higher)	⊕⊕OO LOW	CRITICAL
Psychological	ogical status	: Sympto	m checklist-90-R	positive syn	nptom distress	index (follow-up	12 weeks; range of scores: not re	eported;	Better indic	ated by lower valu	ues)	

1	randomised trials	serious ¹	no serious inconsistency	very serious ²	serious ³	none	34 (hydrocortisone)	34	-	MD 0.1 higher (0.04 lower to 0.24 higher)	⊕OOO VERY LOW	CRITICAL
Psycholo	ogical status:	: Sympto	m checklist-90-R	positive syn	nptom total (fo	llow-up 12 weeks	; range of scores: not reported; E	Setter inc	licated by lo	wer values)		
1	randomised trials	serious ¹	no serious inconsistency	serious ²	no serious imprecision	none	34 (hydrocortisone)	34	-	MD 0.2 lower (5.5 lower to 5.1 higher)	⊕⊕OO LOW	CRITICAL
Psycholo	ogical status:	: Hamilto	n Depression Ra	ting Scale (fo	ollow-up 12 we	eks; range of sco	res: not reported; Better indicate	d by low	er values)			
1	randomised trials	serious ¹	no serious inconsistency	serious ²	serious ³	none	32 (hydrocortisone)	33	1	MD 0.9 lower (2.55 lower to 0.75 higher)	⊕OOO VERY LOW	CRITICAL
Psycholo	ogical status:	: Positive	and negative ef	fect scale (PA	NAS) positive	affect (follow-up	6 weeks; range of scores: 10-50;	Better i	ndicated by I	higher values)		
1	randomised trials	serious ¹	no serious inconsistency	serious ²	very serious ³	none	20 (fludrocortisone)	20	-	MD 1 higher (3.67 lower to 5.67 higher)	⊕OOO VERY LOW	CRITICAL
Activity I	evels: activit	y scale (1	follow-up 12 wee	ks; range of	scores: not rep	oorted; Better ind	icated by higher values)					
1	randomised trials	serious ¹	no serious inconsistency	serious ²	serious ³	none	34 (hydrocortisone)	34	-	MD 0.4 lower (1 lower to 0.2 higher)	⊕OOO VERY LOW	CRITICAL
Activity I	evels: distan	ce befor	e exhausted (ord	inal scale) (fo	ollow-up 6 wee	ks; range of scor	es: 1-5; Better indicated by highe	r values)			
1	randomised trials	serious ¹	no serious inconsistency	serious ²	very serious ³	none	20 (fludrocortisone)	20	-	MD 0 higher (0.72 lower to 0.72 higher)	⊕OOO VERY LOW	CRITICAL
Activity I	evels: Duke	Activity S	Status Index (follo	ow-up 11 wee	eks; range of s	cores: 0-58.2; Be	tter indicated by higher values)					
1	randomised trials	very serious ¹	no serious inconsistency	very serious ⁵	serious ³	none	38 (fludrocortisone)	45	-	MD 2.5 higher (1.49 lower to 6.49 higher)	⊕OOO VERY LOW	CRITICAL
Cognitiv	e function: R	eaction t	ime (secs) (follow	w-up 6 weeks	; Better indica	ted by lower valu	es)					

1	randomised trials	serious ¹	no serious inconsistency	serious ²	very serious ³	none	20 (fludrocortisone)	20	-	MD 0.01 lower (0.06 lower to 0.04 higher)	⊕000 VERY LOW	CRITICAL
Cognitiv	e function: ir	ability to	concentrate on	VAS (follow-	up 6 weeks; ra	nge of scores: 0-	10; Better indicated by lower valu	ies)				
1	randomised trials	serious ¹	no serious inconsistency	serious ²	serious ³	none	20 (fludrocortisone)	20	-	MD 0.6 lower (2.18 lower to 0.98 higher)	⊕000 VERY LOW	CRITICAL
Cognitiv	e function: fo	orgetfulne	ess on VAS (follo	ow-up 6 week	s; range of sco	ores: 0-10; Better	indicated by lower values)					
1	randomised trials	serious ¹	no serious inconsistency	serious ²	serious ³	none	20 (fludrocortisone)	20	-	MD 0.9 lower (2.45 lower to 0.65 higher)	⊕000 VERY LOW	CRITICAL
Cognitiv	e function: c	onfusion	on VAS (follow-	up 6 weeks; ı	ange of scores	s: 0-10; Better ind	icated by lower values)					
1	randomised trials	serious ¹	no serious inconsistency	serious ²	very serious ³	none	20 (fludrocortisone)	20	-	MD 0.1 lower (1.68 lower to 1.48 higher)	⊕000 VERY LOW	CRITICAL
Pain: mu	uscle pain on	VAS (fol	low-up 6 weeks;	range of sco	res: 0-10; Bette	er indicated by lo	wer values)					
1	randomised trials	serious ¹	no serious inconsistency	serious ²	very serious ³	none	20 (fludrocortisone)	20	-	MD 0.1 lower (1.82 lower to 1.62 higher)	⊕000 VERY LOW	CRITICAL
Pain: joi	nt pain on VA	S (follow	/-up 6 weeks; rar	nge of scores	: 0-10; Better i	ndicated by lowe	r values)					
1	randomised trials	serious ¹	no serious inconsistency	serious ²	very serious ³	none	20 (fludrocortisone)	20	-	MD 0.3 lower (2.39 lower to 1.79 higher)	⊕000 VERY LOW	CRITICAL
Sleep qu	uality: unrefre	shing sle	eep on VAS (folio	ow-up 6 week	s; range of sco	pres: 0-10; Better	indicated by lower values)					
1	randomised trials	serious ¹	no serious inconsistency	serious ²	serious ³	none	20 (fludrocortisone)	20	-	MD 0.5 lower (1.68 lower to 0.68 higher)	⊕000 VERY LOW	CRITICAL
[NASAL]	Sleep qualit	v: Functi	onal Outcomes o	of Sleep Ques	stionnaire (follo	ow-up 4-8 weeks;	range of scores: not reported; B	etter indi	cated by hig	her values)		

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1	randomised trials		no serious inconsistency	very serious ⁴	serious ³	none	28 (nasal flunisolide)	28	-	MD 0.89 higher (0.99 lower to 2.77 higher)	⊕OOO VERY LOW	CRITICAL	
[NASAL]	NASAL] Sleep quality: Epworth Sleepiness Scale (follow-up 4-8 weeks; range of scores: 0-24; Better indicated by lower values)												
1	randomised trials	serious ¹	no serious inconsistency	very serious²	serious ³	none	28 (nasal flunisolide)	28	-	MD 3.18 lower (6.57 lower to 0.21 higher)	⊕OOO VERY LOW	CRITICAL	
Exercise	exercise performance measure: Treadmill time (mins) (follow-up 6 weeks; Better indicated by lower values)												
1	randomised trials	serious ¹	no serious inconsistency	serious²	serious ³	none	20 (fludrocortisone)	20	-	MD 2.6 higher (3.85 lower to 9.05 higher)	⊕OOO VERY LOW	CRITICAL	
Sympton	Symptom scales: Wellness scale (follow-up 11 weeks; range of scores: 0-100; Better indicated by higher values)												
1	randomised trials	very serious ¹	no serious inconsistency	very serious ⁵	serious ³	none	38 (fludrocortisone)	45	-	MD 1.1 higher (3.58 lower to 5.78 higher)	⊕OOO VERY LOW	CRITICAL	
Sympton	n scales: We	liness sc	ale (follow-up 12	weeks; range	e of scores: 0-	100; Better indica	ited by higher values)						
1	randomised trials	very serious ¹	no serious inconsistency	serious²	serious ³	none	30 (hydrocortisone)	35	-	MD 4.6higher (0.5 lower to 9.7 higher)	⊕OOO VERY LOW	CRITICAL	
Sympton	n scales: Sic	kness Im	pact Profile (follo	ow-up 12 wee	ks; range of s	cores: 0-68; Bette	er indicated by lower values)						
1	randomised trials		no serious inconsistency	serious²	no serious imprecision	none	33 (hydrocortisone)	34	-	MD 0.3 lower (3.46 lower to 2.86 higher)	⊕⊕OO LOW	CRITICAL	
Sympton	n scales: hea	daches	on VAS (follow-u	p 6 weeks; ra	nge of scores:	: 0-10; Better indi	cated by lower values)						
1	randomised trials		no serious inconsistency	serious²	very serious ³	none	20 (fludrocortisone)	20	-	MD 0 higher (1.55 lower to 1.55 higher)	⊕OOO VERY LOW	CRITICAL	
Sympton	n scales: pai	nful lymp	h nodes on VAS	(follow-up 6	weeks; range	of scores: 0-10; B	setter indicated by lower values)						

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	randomised trials		no serious inconsistency	serious²	very serious ³	none	20 (fludrocortisone)	20	-	MD 0.2 lower (2.31 lower to 1.91 higher)	⊕OOO VERY LOW	CRITICAL	
Sympton	Symptom scales: sore throat on VAS (follow-up 6 weeks; range of scores: 0-10; Better indicated by lower values)												
		, ,	no serious inconsistency	serious ²	serious ³	none	20 (fludrocortisone)	20		MD 0.2 lower (1.8 lower to 1.4 higher)	⊕OOO VERY LOW	CRITICAL	

¹ Downgraded by 1 increment if the majority of the evidence was at high risk of bias, and downgraded by 2 increments if the majority of the evidence was at very high risk of bias ² The majority of the evidence included an indirect population (downgraded by one increment) downgraded if the ME/CFS diagnostic criteria used did not include PEM as a compulsory feature (original analysis); percentage of participants with PEM unclear [PEM reanalysis – see Appendix G for additional details].

³ Downgraded by 1 increment if the confidence interval crossed one MID or by 2 increments if the confidence interval crossed both MIDs

⁴ The majority of the evidence included an indirect population (downgraded by one increment) or a very indirect population (downgraded by two increments): 1) downgraded if the ME/CFS diagnostic criteria used did not include PEM as a compulsory feature [original analysis]; percentage of participants with PEM unclear [PEM reanalysis – see Appendix G for additional details]. 2) Additionally downgraded due to all participants having rhinitis (Kakumanu 2003)

⁵ The majority of the evidence included an indirect population (downgraded by one increment) or a very indirect population (downgraded by two increments): 1) downgraded if the ME/CFS diagnostic criteria used did not include PEM as a compulsory feature [original analysis]; percentage of participants with PEM unclear [PEM reanalysis – see Appendix G for additional details]. 2) Additionally downgraded due the majority of evidence coming from a study where all participants had neurally-mediated hypotension (Rowe 2001)