Table 81: Clinical evide	nce profile:	Comparison '	1. UDCA	versus place	bo or control
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Quality assessment								No of patients				
No of studi es	Design	Risk of bias	Inconsisten cy	Indirectne ss	Imprecisi on	Other consideration s	UDC A	Placebo/contr ol	Relati ve (95% CI)	Absolu te	Quality	Importan ce
Lack o	of normalisa	tion of AS	ST (follow-up 6	6 months)								
2 (Merl i 1994 , O'Bri en	randomis ed trials ¹	no seriou s risk of bias	no serious inconsistenc y	no serious indirectne ss	serious ²	none	6/6 (100 %)	5/8 (62.5%)	RR 1.51 (0.83 to 2.78)	319 more per 1000 (from 106 fewer to	MODERAT E	CRITICA L

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Quality No of studi	y assessme Design	nt Risk of bias	Inconsisten cy	Indirectne ss	Imprecisi on	Other consideration	No of patientsUDCPlacebo/contrAol		Effect Relati Absolu ve te			
es						S			(95% CI)		Quality	Importan ce
1992)										1000 more)		
								75%		382 more per 1000 (from 128 fewer to 1000 more)		
Lack o	of normalisa	tion of AL	T (follow-up 6	6 months)								
2 (Merl i 1994 , O'Bri en 1992)	randomis ed trials ¹	no seriou s risk of bias	no serious inconsistenc y	no serious seriou c indirectne ss	serious ²	none	4/8 (50%)	3/4 (75%)	RR 0.69 (0.27 to 1.74)	233 fewer per 1000 (from 548 fewer to 555 more)	MODERAT E	CRITICA L
						83.3%		258 fewer per 1000 (from 608 fewer to 616				

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Quality No of studi es	/ assessme i Design	nt Risk of bias	Inconsisten cy	Indirectne ss	Imprecisi on	Other consideration s	No of p UDC A	oatients Placebo/contr ol	Effect Relati ve (95% CI)	Absolu te	Quality	Importan ce
Lack o	of normalisat	tion of G	GT (follow-up	6 months)								
2 (Merl i 1994 , O'Bri en 1992)	randomis ed trials1	no seriou s risk of bias	no serious inconsistenc y	no serious indirectne ss	very serious ³	none	2/6 (33.3 %)	2/4 (50%)	RR 0.6 (0.16 to 2.29)	200 fewer per 1000 (from 420 fewer to 645 more)	LOW	CRITICA L
								33.3%		133 fewer per 1000 (from 280 fewer to 430 more)		
Final b	oilirubin valu	ie (umol/l	l) (follow-up 6	months; Bet	ter indicated	l by lower value	es)					
1 (O'Br ien 1992)	randomis ed trials	no seriou s risk of bias	no serious inconsistenc y	no serious indirectne ss	very serious ³	none	6	6	-	MD 4 higher (3.72 lower to 11.72 higher)	LOW	CRITICA L
Percer	ntage chang	e in AST	(follow-up 12)	months: Bett	er indicated	by lower value	es)					

Quality assessment								No of patients				
No of studi es	Design	Risk of bias	Inconsisten cy	Indirectne ss	Imprecisi on	Other consideration s	UDC A	Placebo/contr ol	Relati ve (95% CI)	Absolu te	Quality	Importan ce
1 (Colo mbo 1996)	randomis ed trials	seriou s ⁷	no serious inconsistenc y	no serious indirectne ss	serious ²	none	15	12	-	MD - 14 (- 39.93 to 11.93)	LOW	CRITICA L
Percer	ntage chang	e in ALT	(follow-up 12 ເ	months; Bett	er indicated	by lower value	es)					
1 (Colo mbo 1996)	randomis ed trials	seriou s ⁴	no serious inconsistenc y	no serious indirectne ss	serious ²	none	15	12	-	MD - 13 (- 29.35 to 3.35)	LOW	CRITICA L
Percer	ntage chang	e in GGT	(follow-up 12	months; Bet	ter indicated	d by lower valu	es)					
1 (Colo mbo 1996)	randomis ed trials	seriou s ⁴	no serious inconsistenc y	no serious indirectne ss	serious ²	none	15	12	-	MD - 11.00 (-36.74 to 14.74)	LOW	
No dev	velopment o	f liver dis	ease (follow-u	ip 6 months)								
1 (Merl i 1994)	randomis ed trials1	no seriou s risk of bias	no serious inconsistenc y	no serious indirectne ss	no serious imprecisio n	none	11/11 (100 %)	11/11 (100%)	Not calcul able⁵	-	HIGH	CRITICA L
Liver f	ailure (jaund	lice) (foll	ow-up 12 mon	ths)								
1 (Colo mbo 1996)	randomis ed trials	seriou s ⁴	no serious inconsistenc y	no serious indirectne ss	no serious imprecisio n	none	1/15	0/13	RR 2.62 (0.12 to 59.40)	Not calcula ble ⁶	MODERAT E	CRITICA L

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Quality assessment							No of patients		Effect			
No of studi es	Design	Risk of bias	Inconsisten cy	Indirectne ss	Imprecisi on	Other consideration s	UDC A	Placebo/contr ol	Relati ve (95% CI)	Absolu te	Quality	Importan ce
Liver t	ransplantati	ion (follow	w-up 12 month	ıs)								
1 (Colo mbo 1996)	randomis ed trials	seriou s ⁴	no serious inconsistenc y	no serious indirectne ss	Not applicable		15 1 patien t in the treat ment group was withdr awn to receiv e transp lantati on	13	Not applic able	Not applica ble	MODERAT	CRITICA

Abbreviations: CFLD: ALT: alanine aminotransferase; AST: aminotransferase; cystic fibrosis liver disease; CI: confidence interval; GGT: gamma glutamyltransferase; MD: mean difference; RR: risk ratio

1 Merli (1994) used a cross-over study design

2 The quality of the evidence was downgraded by 1 because the 95% CI crossed 1 default MID.

3 The quality of the evidence was downgraded by 2 because the 95% CI crossed 2 default MIDs.

4 The quality of the evidence was downgraded by 1 due to lack of allocation concealment reporting.

5 RR not calculable - no development of liver disease in 11/11 participants who did not have CF related liver disease at entry in this cross-over trial.

6 Not calculable - 0 events in placebo arm.