Supplemental Table 3 Quality assessment based on laboratory test and clinical indexes of the ω-3 PUFAs support in patients undergoing liver operation.

	Quality assessment							No of patients	Effect		Quality	Importance
Outcomes	Design	No of studies	Risk of	Inconsistency	Indirectness	Imprecision	Other considerations	(I/C)	Relative (95% CI)	Absolute		
Liver function												
AST	RCT	5	serious ^{1,2}	no serious	no serious	serious ³	none	184/186	_	MD 42.72 lower (71.91	⊕⊕OO	Important
[47, 49, 51, 53, 55]										to 13.52 lower)	LOW	
ALT	RCT	6	serious ^{1,2}	no serious	no serious	no serious	none	341/341	_	MD 38.9 lower (65.44	⊕⊕⊕О	Important
[47, 49, 51, 53-55]										to 12.37 lower)	MODERATE	
Tbil	RCT	6	serious ^{1,2}	no serious	no serious	no serious	none	341/341	_	MD 0.97 lower (2.5	⊕⊕⊕О	Important
[47, 49, 51, 53-55]										lower to 0.57 higher)	MODERATE	
Alb	RCT	6	serious ^{1,2}	no serious	no serious	no serious	none	341/341		MD 0.42 higher (0.26	⊕⊕⊕О	Important
[47, 49, 51, 53-55]									_	to 0.57 higher)	MODERATE	•
Makers of inflammat	ion											
WBC	RCT	3	serious ^{1,2}	no serious	no serious	no serious	none	218/216	_	MD 0.93 lower (1.6 to	⊕⊕⊕О	Important
[49, 54, 55]										0.26 lower)	MODERATE	
TNF-α	RCT	3	serious ^{1,2}	no serious	no serious	serious ³	none	64/65	-	MD 0.01 lower (15.08	$\oplus \oplus \mathrm{OO}$	Important
[50, 52, 53]										lower to 15.06 higher)	LOW	
	D.C.T.		. 12					105/106		15.11.05.1 (14.62		
IL-6 [49, 50, 52, 53]	RCT	4	serious ^{1,2}	no serious	no serious	serious ³	none	105/106	=	MD 11.37 lower (14.62 to 8.13 lower)	⊕⊕OO LOW	Important
IL-2	RCT	2	serious ^{1,2,3}	no serious	no serious	no serious	none	59/59		MD 20.72 lower (50.34	⊕⊕OO	Important
49, 50]	KCI	2	scrious	no scrious	no serious	no scrious	none	39139	_	lower to 8.89 higher)	LOW	mportant
Markers of immune s	ystem									2 /		
	RCT	3	serious ^{1,2}	no serious	no serious	serious ³	nana	89/89		MD 0.2 higher (0 to 0.4	0000	Importe+
IgA [47, 49, 52]	KCI	3	serious.,2	no serious	no serious	serious.	none	07/07	-	higher)	⊕⊕OO LOW	Important

Supplemental Table 3 (continued)

Quality assessment									Effect		Quality	Importance
Outcomes	Design	No of studies	Risk of	Inconsistency	Indirectness	Imprecision	Other considerations	patients (I/C)	Relative (95% CI)	Absolute		
IgG [47, 49]	RCT	2	serious ^{1,2}	no serious	no serious	serious ³	none	74/74	-	MD 0.36 lower (1.47 lower to 0.75 higher)	⊕⊕OO LOW	Important
IgM [47, 49, 52]	RCT	3	serious ^{1,2}	no serious	no serious	serious ³	none	89/89	-	MD 0 higher (0.11 lower to 0.1 higher)	⊕⊕OO LOW	Important
CD3 [49, 52]	RCT	2	serious ^{1,2}	no serious	no serious	serious ³	none	56/56	-	MD 0.94 higher (6.76 lower to 8.64 higher)	⊕⊕OO LOW	Important
Clinical indexes												
Infection [47, 49, 51, 53, 54]	RCT	5	serious ^{1,2}	no serious	no serious	no serious	none	321 (36)/ 321 (71)	OR 0.44 (0.28 to	110 fewer per 1000 (from 59 fewer to 148 fewer)/ 98 fewer	⊕⊕⊕O MODERATE	Critical
biliary leakage [51, 54]	RCT	2	serious ^{1,2}	no serious	no serious	no serious	none	216 (11)/ 215 (15)	OR 0.71 (0.32 to 1.59)	19 fewer per 1000 (from 46 fewer to 37 more)/ 18 fewer per 1000 (from 43 fewer to 34 more)	⊕⊕⊕O MODERATE	Critical
Duration of hospital stay [47, 49, 51, 53, 54]	RCT	5	serious ^{1,2}	no serious	no serious	serious ³	none	182/184	-	MD 2.17 lower (3.04 to 1.3 lower)	⊕⊕OO LOW	Important
Mortality [47, 49, 51, 53, 54]	RCT	5	serious ^{1,2,3}	no serious	no serious	serious ⁴	none	321 (2)/ 321 (9)	OR 0.25 (0.06 to 1.03)	21 fewer per 1000 (from 26 fewer to 1 more)/ 13 fewer per 1000 (from 16 fewer to 1 more)	⊕⊕OO LOW	Critical

 $Abbreviations: AST \ aspartate \ aminotransferase; \ ALT \ alanine \ aminotransferase; \ Tbil \ total \ bilirubin; \ Alb \ albumin; \ WBC \ white \ blood \ cell; \ TNF \ tumor \ necrosis \ factor \ alpha; \ IL-6 \ interleukin-6; \ IL-2 \ interleukin-2;$

IgA Immunoglobulin A; IgG Immunoglobulin G; IgM Immunoglobulin M; CD3 CD3 – lymphocytes.

¹ In included studies, at least one element for the risk of bias is considered to have limitations in design. ² Timing and duration of intervention were inconsistent. ³ Low sample size (n < 400). ⁴ The time of follow up was different.