

FRONTIERS IN MEDICINE

SUPPLEMENTARY DATA

Effects of telemedicine on obese patients with non-alcoholic fatty liver disease: a systematic review and meta-analysis

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TABLE LEGENDS

Table S1 Search algorithms

Table S2 Subgroup analyses

FIGURE LEGENDS

Figure S1 Risk of bias

Table S1 Search algorithms

Database	No	Step search algorithm	Items found
Pubmed	#1	Search communications media	298927
	#2	Search telecommunications	88431
	#3	Search telemedicine	28525
	#4	Search telenursing	328
	#5	Search phone	27062
	#6	Search digital	121795
	#7	Search web	102680
	#8	Search mobile	96534
	#9	Search application	719575
	#10	Search non-alcoholic fatty liver disease	14046
	#11	Search (((((((communications media) OR telecommunications) OR telemedicine) OR telenursing) OR phone) OR digital) OR web) OR mobile) OR application	1299753
	#12	Search (non-alcoholic fatty liver disease) AND (((((((communications media) OR telecommunications) OR telemedicine) OR telenursing) OR phone) OR digital) OR web) OR mobile) OR application)	641
Scopus	#1	Search communications media	6662
	#2	Search telecommunications	496688
	#3	Search telemedicine	33391
	#4	Search telenursing	413
	#5	Search phone	110034
	#6	Search digital	1013250
	#7	Search web	486321
	#8	Search mobile	659779
	#9	Search application	5620186
	#10	Search non-alcoholic fatty liver disease	11977
	#11	Search (((((((communications media) OR telecommunications) OR telemedicine) OR telenursing) OR phone) OR digital) OR web) OR mobile) OR application	7496202
	#12	Search (non-alcoholic fatty liver disease) AND (((((((communications media) OR telecommunications) OR telemedicine) OR telenursing) OR phone) OR digital) OR web) OR mobile) OR application)	329
Cochrane	#1	Search communications media	34
	#2	Search telecommunications	423
	#3	Search telemedicine	2527
	#4	Search telenursing	55
	#5	Search phone	7214
	#6	Search digital	10571
	#7	Search web	6705
	#8	Search mobile	17413
	#9	Search application	44958
	#10	Search non-alcoholic fatty liver disease	988
	#11	Search (((((((communications media) OR telecommunications) OR telemedicine) OR telenursing) OR phone) OR digital) OR web) OR mobile) OR application	81559
	#12	Search (non-alcoholic fatty liver disease) AND (((((((communications media) OR telecommunications) OR telemedicine) OR telenursing) OR phone) OR digital) OR web) OR mobile) OR application)	87

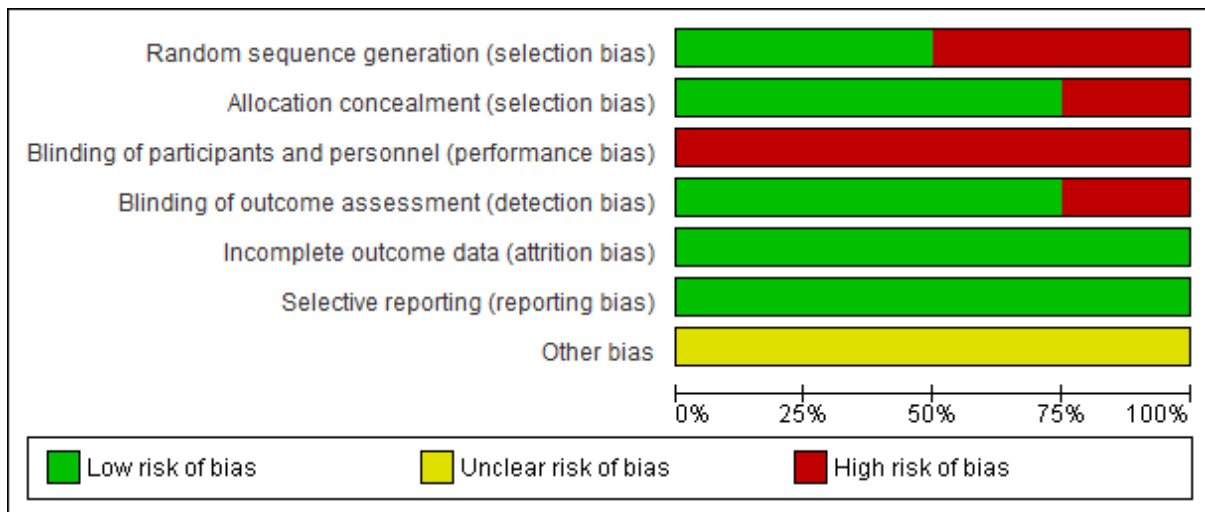
Database	No	Step search algorithm	Items found
		telemedicine) OR telenursing) OR phone) OR digital) OR web) OR mobile) OR application)	
Science direct	#1	Search communications media	1597
	#2	Search telecommunications	91522
	#3	Search telemedicine	12673
	#4	Search telenursing	122
	#5	Search phone	346853
	#6	Search digital	1042030
	#7	Search web	1140794
	#8	Search mobile	733817
	#9	Search application	5540829
	#10	Search non-alcoholic fatty liver disease	10988
	#11	Search (((((((communications media) OR telecommunications) OR telemedicine) OR telenursing) OR phone) OR digital) OR web) OR mobile) OR application	6949220
	#12	Search (non-alcoholic fatty liver disease) AND (((((((communications media) OR telecommunications) OR telemedicine) OR telenursing) OR phone) OR digital) OR web) OR mobile) OR application)	1605

Table S2 Subgroup analyses

Characteristics	ALT (U/L)			AST (U/L)			Triglyceride levels (mg/dL)			HDL-C levels (mg/dL)			BMI (kg/m ²)		
	WMD (95% CI)	Heterogeneity		WMD (95% CI)	Heterogeneity		WMD (95% CI)	Heterogeneity		WMD (95% CI)	Heterogeneity		WMD (95% CI)	Heterogeneity	
		I ² value (%)	p-value		I ² value (%)	p-value		I ² value (%)	p-value		I ² value (%)	p-value		I ² value (%)	p-value
Study design															
RCT	-22.02 (-30.64, -13.40)	46.5	0.172	-10.31 (-13.94, -6.67)	0.0	0.805	14.00 (-8.43, 36.43)	NA	NA	-2.00 (-4.60, 0.60)	NA	NA	0.25 (-2.75, 2.26)	69.0	0.073
Non-RCT	-12.80 (-21.08, -4.52)	NA	NA	-10.00 (-16.65, -3.35)	NA	NA	-61.40 (-113.22, -9.58)	NA	NA	12.70 (8.25, 17.15)	NA	NA	-3.90 (-6.70, -1.10)	NA	NA
Communication															
One-way	-19.00 (-24.48, -13.52)	NA	NA	-10.00 (-14.38, -5.62)	NA	NA	14.00 (-8.43, 36.43)	NA	NA	-2.00 (-4.60, 0.60)	NA	NA	1.00 (-0.89, 2.89)	NA	NA
Two-way	-19.91 (-35.17, -4.66)	76.4	0.039	-10.50 (-15.16, -5.85)	0.0	0.835	-61.40 (-113.22, -9.58)	NA	NA	12.70 (8.25, 17.15)	NA	NA	-2.53 (-4.79, -0.27)	42.6	0.187

ALT, alanine aminotransferase; AST, aspartate aminotransferase; BMI, body mass index; CI, confidence interval; HDL-C, high-density lipoprotein cholesterol; NA, not available; WMD, weighted mean difference

(A)



(B)

	Random sequence generation (selection bias)	Allocation concealment (selection bias)	Blinding of participants and personnel (performance bias)	Blinding of outcome assessment (detection bias)	Incomplete outcome data (attrition bias)	Selective reporting (reporting bias)	Other bias
Axley P, 2018	+	+	-	+	+	+	?
Fard SJ, 2016	+	+	-	+	+	+	?
Mazzotti A, 2018	-	-	-	-	+	+	?
Vilar-Gomez E, 2018	-	+	-	+	+	+	?

Figure S1 Risk of bias. (A) Risk of bias graph: review authors' judgements on each risk of bias item, presented as percentages across all included studies. (B) Risk of bias summary: review authors' judgements on each risk of bias item for each included study