Impact of DSMES-app interventions on Medication Adherence in Type 2 Diabetes Mellitus: Systematic Review & Meta-Analysis

Table S1. Search Strategy used in Cochrane Controlled Register of Trials (CENTRAL)

ID	Search Details	Number
#1	[Diabetes Mellitus, Type 2] explode all trees	17351
#2	[Telemedicine] explode all trees	2438
#3	[Self-Management] explode all trees and with qualifier(s): [education - ED]	39
#4	"self-management education" OR "self-management support" OR "diabetes education" OR "health promotion" OR "patient education" OR "health education"	34078
#5	[Medication Adherence] explode all trees	2189
#6	[Patient Compliance] explode all trees	11739
#7	"cell phone" OR "cellphone" OR "cellular phone" OR "cellular telephone" OR "mobile phone" OR "mobile telephone" OR "mobile applications" OR "mobile apps" OR "text messaging" OR "texting"	5554
#8	#3 OR #4	34087
#9	#7 OR #2	7593
#10	#5 OR #6	11739
#11	#1 AND #8	1285
#12	#11 AND #9	101
#13	#12 AND #10	11

Figure S2. Intervention Effect on Medication Adherence at 0.2 pre/post correlation

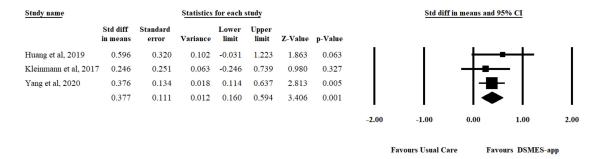


Figure S3. Intervention Effect on Medication Adherence at 0.8 pre/post correlation

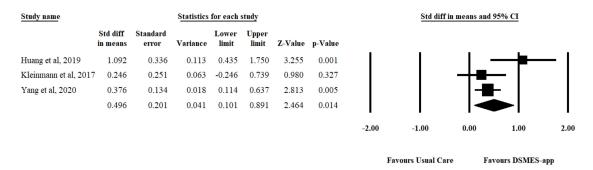
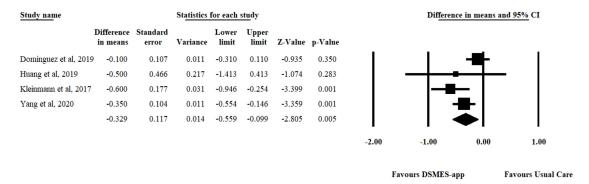


Figure S4. Intervention Effect on HbA1c at 0.2 pre/post correlation

Study name			Statistics f	or each s	tudy			Differen	erence in means and 95% CI			
	Difference in means	Standard error	Variance	Lower limit	Upper limit	Z-Value	p-Value					
Dominguez et al, 201	9 -0.100	0.210	0.044	-0.512	0.312	-0.476	0.634				-	
Huang et al, 2019	-0.500	0.810	0.656	-2.087	1.087	-0.617	0.537	←		-		
Kleinmann et al, 2017	-0.600	0.337	0.114	-1.261	0.061	-1.779	0.075			-		
Yang et al, 2020	-0.350	0.104	0.011	-0.554	-0.146	-3.359	0.001		-	█		
	-0.324	0.089	0.008	-0.499	-0.149	-3.625	0.000			◆		
								-2.00	-1.00	0.00	1.00	2.
								Fa	vours DSMES-	ann	Favours Usual Care	

HbA1c: Glycosylated Hemoglobin

Figure S5. Intervention Effect on HbA1c at 0.8 pre/post correlation



HbA1c: Glycosylated Hemoglobin

Figure S6. Intervention Effect on BMI at 0.2 pre/post correlation

Study name		Statistics for each study							Difference in means and 95% C		
	Difference in means	Standard error	Variance		Upper limit	Z-Value	p-Value				
Dominguez et al, 20	19 -0.300	0.152	0.023	-0.598	-0.002	-1.972	0.049	- 1	1		1
Huang et al, 2019	-3.700	3.182	10.125	-9.936	2.536	-1.163	0.245	<-		_	
Kleinmann et al, 201	-1.100	1.365	1.864	-3.776	1.576	-0.806	0.420	I—		_	— I
Yang et al, 2020	-0.090	0.307	0.095	-0.693	0.513	-0.293	0.770			-	.
	-0.273	0.136	0.018	-0.539	-0.008	-2.016	0.044			•	
								-4.00	-2.00	0.00	2.00
								Fav	ours DSMES-	ann	Favours Usual

Figure S7. Intervention Effect on BMI at 0.8 pre/post correlation

Study name			Statistics	for each	study				Differen	Difference in means
	Difference in means	Standard error	Variance	Lower limit	Upper limit	Z-Value	p-Value			
Dominguez et al, 201	9 -0.300	0.152	0.023	-0.598	-0.002	-1.972	0.049			=
Huang et al, 2019	-3.700	2.307	5.322	-8.221	0.821	-1.604	0.109	k	k-	k
Kleinmann et al, 2017	7 -1.100	0.684	0.468	-2.441	0.241	-1.608	0.108		_ _ _	
Yang et al, 2020	-0.090	0.307	0.095	-0.693	0.513	-0.293	0.770			│
	-0.302	0.133	0.018	-0.564	-0.041	-2.264	0.024			
								-4.00	-4.00 -2.00	-4.00 -2.00 0.00
								F	Favours DSMES-a	Favours DSMES-app

BMI: Body Mass Index