Supplementary Table 1 Pedro Quality Analysis Results:

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1st author last name +/-et al. (year)	Random	Allocation concealed		-	Therapists blinded	Asessors blinded		Intention to treat' analysis	group' statistical	Provides point measures and measures of variability	Total score
Alanzi 2018		0	0						1	•	Total score
Arora 2014	1	0						1	1		3
Bujnowska-Fedak	1	U	U	U	U	U	0	1	1	1	4
2011	1	0	1	0	0	0	1	0	1	1	5
Cho 2017	1	0	1		0			1	1		6
Crowley 2016	1	0							1		6
Dafoulas 2014	1	0	0				1	0	1		5
Dario 2016	1	0	1						1		5
Fortmann 2017	1	0	1		0			1	1		6
Fountoulakis 2015	1	0						0	1		5
Holmen 2014	1	0	1	0	0				1		5
Jeong 2018	1	0	1					1	1		6
Kempf 2017	1	0	1	1	1	0	1	1	1	1	8
Kim 2007	1	0	1	0	0	0	1	0	1	1	5
Kim 2008	1	0	1	0	0	0	1	0	1	1	5
Kim 2016	1	0	1	0	0	0	0	0	1	1	4
Kim 2019	1	0	1	0	0	0	1	0	1	1	5
Kleinman 2017	1	1	1	0	0	1	0	1	1	1	7
Lee 2019	1	0	1	0	0	1	1	1	1	1	7
Lim 2016	1	0	1	0	0	0	1	0	1	1	5
Liou 2014	1	0	1	0	0	0	1	0	1	1	5
Luley 2011	1	0	1	0	0	0	1	0	1	1	5
Nicolucci 2015	1	0	1	0	0	0	0	0	1	1	4
Or 2020	1	1	1	0	0	0	1	1	1	1	7
Orsama 2013	1	0	1	0	0	0	1	0	1	1	5
Pacaud 2012	1	0	0	0	0	0	1	1	1	1	5
Pressman 2014	1	0	1	0	0	1	1	0	1	1	6
Quinn 2016	1	0	0	0	0	0	1	0	1	1	4
Ramadas 2018	1	0	1	0	1	0	1	1	1	1	7
Rodriguez-Idigoras											
2009	1	1	1	0	0	0	1	1	1	1	7
Shea 2009	1	0	0	0	0	1	0	1	1	1	5
Stone 2009	1	0	1	0	0	1	1	1	1	1	7
Sun 2019	1	0	1	0	0	0	1	0	1	1	5
Tang 2013	1	0	1		0	1	1	1	1	1	7
Vinitha 2019	1	0						1	1		6
Wang 2017	1	0	1						1		4
Wang 2018	1	0	0	0	0			1	1	1	5
Wayne 2015	1	0							1		5
Welch 2011	1	0	1	0				0	1	1	4
Whittemore 2020	1	0						1	1		7
Wild 2016	1	0						1	1		7
Williams 2012	1	0							1		
Xu 2019	1	0							1		5
Yip 2002	1	0	1	1	0	0	0	0	1	1	5

Mode of Telemedicine Intervention	Definition			
Text message	Short-message-service via mobile phone. Live or automated messages.			
Mobile Application	Interactive application used on a smartphone.			
Interactive Telephone System	Automated interactive telephone system that is not simply a traditional telephone call.			
Online Server	Transmission of data to clinicians via internet server (may involve Bluetooth).			
Website	Online content in the form of web pages accessed under a common domain name.			
Videoconference	Use of live video and audio to communicate with others.			
Tablet/device	Interactive use of a tablet or similar portable device.			
Duration of Intervention				
< 6 months	Length of time of intervention, from first interaction to final interaction. (Not necessarily follow-up time, which may be shorter or longer than the intervention duration)			
6 months				
> 6 months < 12 months				
\geq 12 months				
Focus of the intervention	Definition			
Biomedical Parameters	Focus on monitoring or modifying clinical measurements (eg. blood glucose, weight, blood pressure)			
Self-management Behaviours	Focus on monitoring or modifying patient activities and behaviours (eg. Exercise, diet, self-monitoring of glucose, education, disease knowledge, self-care behaviours)			
Biomedical parameters + Self-management Behaviours	Combination of both			
Model of Intervention	Definition			
Behaviour Change	Aim to improve patient activities and behaviours (eg. Exercise, diet, self-monitoring glucose)			
Clinical Treatment	Aim to monitor and treat patients (eg. monitor blood glucose for out of range, adjust medications, monitor for complications)			

Behaviour Change + Treatment Combination	Combination of both			
Type of Telemedicine	Definition			
Telemonitoring	Remote monitoring of clinical measurements			
Tele-education	Remote provision of education or advice for patients.			
Telemonitoring + Tele-education	Combination of both (eg monitoring of clinical measurements and feedback provided to improve.)			
Intervention-lead	Definition			
Doctor	Doctor, physician.			
Nurse	Nurse, nurse practitioner.			
Multi-disciplinary Team	2 or more different leads, team-led.			
Allied health	Diabetes educator, dietician or councillor			
Drop-out Rate	Definition			
0-9.9%	Intervention group drop-out rate			
10%-19.9%	(not combined drop out rate)			
≥20%				
Frequency of Intervention	Definition			
Daily	Daily interaction			
> Daily < weekly	eg. twice weekly			
Weekly	Weekly interaction			
> Weekly	eg. fortnightly, monthly.			
Intervention Engagement	Definition			
≤ 70%	Proportion of patients that engage/participate in the intervention to			
>70%	the level intended, or the average rate of engagement/participation across all patients in the intervention group.			

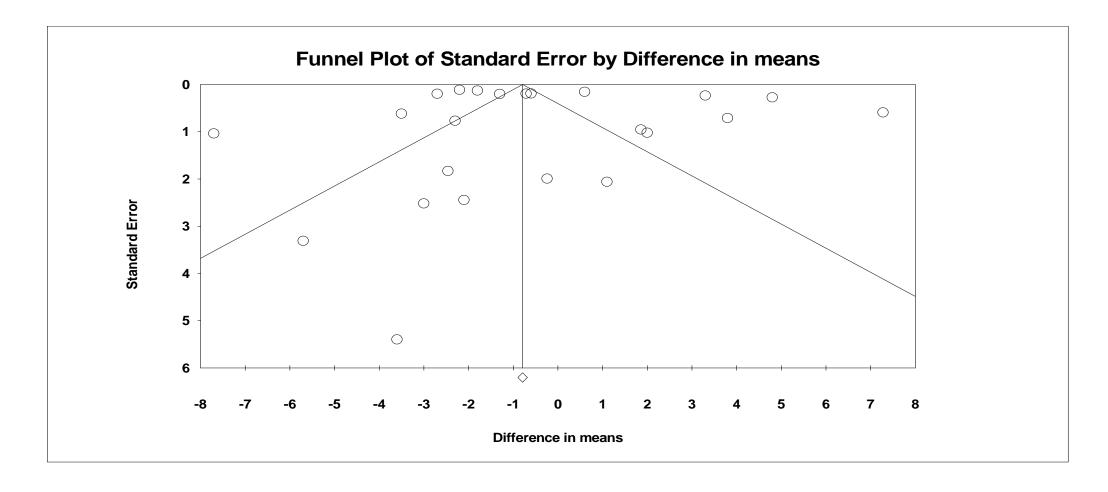
<u>Supplementary Table 3 Self-care Outcome Subgroups</u>

Self-care: Medication Adherence	Definition		
No significant difference	Post-intervention medication adherence.		
Intervention significantly better than control			
Self-care: Disease Knowledge	Definition		
No significant difference	Post-intervention disease knowledge.		
Intervention significantly better than control			
Self-care: Behaviour change	Definition		
No significant difference	Post-intervention behaviour change.		
Intervention significantly better than control			
Self-care: Self-Glucose Monitoring	Definition		
No significant difference	Post-intervention self-glucose monitoring.		
Intervention significantly better than control			
Hospital Visits	Definition		
No significant difference	Post-intervention total hospital visits over the measure period.		
No significant difference Intervention significantly better than control	Post-intervention total hospital visits over the measure period.		
	Post-intervention total hospital visits over the measure period. Definition		
Intervention significantly better than control			
Intervention significantly better than control Self-care: Self-efficacy	Definition		
Intervention significantly better than control Self-care: Self-efficacy No significant difference	Definition		
Intervention significantly better than control Self-care: Self-efficacy No significant difference Intervention significantly better than control	Definition Post-intervention self-efficacy.		
Intervention significantly better than control Self-care: Self-efficacy No significant difference Intervention significantly better than control Self-care: Nutrition/Diet	Definition Post-intervention self-efficacy. Definition		
Intervention significantly better than control Self-care: Self-efficacy No significant difference Intervention significantly better than control Self-care: Nutrition/Diet No significant difference	Definition Post-intervention self-efficacy. Definition		
Intervention significantly better than control Self-care: Self-efficacy No significant difference Intervention significantly better than control Self-care: Nutrition/Diet No significant difference Intervention significantly better than control	Definition Post-intervention self-efficacy. Definition Post-intervention eating habits.		

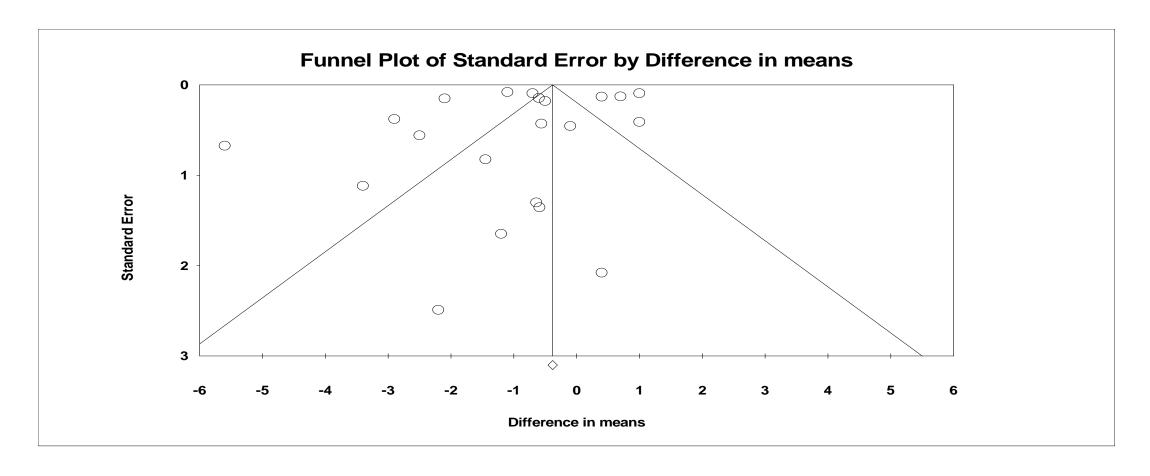
Supplementary Table 4 Patient Characteristics Subgroups

Racial Group	Definition
Hispanic	Explicitly recruited only Hispanic patients.
Chinese	Explicitly recruited only Chinese patients.
Comorbid Disease	Definition
Overweight/obese	BMI ≤ 25
Hypertension	Physician diagnosed hypertension

Supplementary Figure 1



Supplementary Figure 1 (A) Funnel plot for systolic blood pressure (SBP)



Supplementary Figure 1 (B) Funnel plot for diastolic blood pressure (DBP)