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Using telehealth makes it possible to reinvent lifestyle program models to improve patient access.

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Purpose

- Face-to-face lifestyle programs may be inaccessible due to residence, illness or mobility limitations.
- Telehealth offers potential to remove these barriers.1
- Aim: effectiveness of telehealth delivered multidisciplinary behaviour change Healthy Eating and Lifestyle Program (HELP).

Methods

- Prospective cohort study comparing telehealth, face to face individual and face to face group 2017-2019.
- Inclusion for telehealth: Spinal/Orthopaedic. Physiotherapy Screening Clinic referral, initial HELP session; Inclusion for face to face: BMI > 25kg/m². Data used from a historical cohort.
- Compared changes from pre to post intervention between groups for weight, Quality of Life (SF12), Intuitive Eating Scale (IES) and Pain using ANOVA with Bonferroni corrections for multiple comparisons.

Results

- Baseline demographics (table 1) reveal lower mental QOL scores in the telehealth and F2F group compared with F2F individual.
- For the telehealth cohort (N=44), 95.5% were from regional/rural locations.
- In all three cohorts (table 2), there were improvements in weight, intuitive eating and pain.
- Mental Health domain QOL improved in the telehealth group only.

Table 1 Baseline participant characteristics (mean + SD)

	Telehealth	Face to Face Individual	Face to Face Group
Age (years)	N=103	N=201	N=370
Mean <u>+</u> SD	53 <u>+</u> 13	51 <u>+</u> 15	58 <u>+</u> 13
Weight (kg)	N=94	N=196	N=312
Mean <u>+</u> SD	107.6 <u>+</u> 21.8	101.7 <u>+</u> 21.1	108.8 <u>+</u> 24.9
BMI (kg/m²)	N=94	N=196	N=312
Mean <u>+</u> SD	38 <u>+</u> 8.5	36.1 <u>+</u> 6.7	39.6 <u>+</u> 8.2
QOL-Mental	N=75	N=51	N=120
Mean <u>+</u> SD	42.6 <u>+</u> 12.9	46.7 <u>+</u> 12.6	40.1 <u>+</u> 12.2
Pain	N=74	N=60	N=53
Mean <u>+</u> SD	25.8 <u>+</u> 13.3	33.4 <u>+</u> 13.6	32 <u>+</u> 14.9

Table 2 Change pre to post intervention for weight, quality of Life, intuitive eating and pain

	Telehealth	Face to Face Individual	Face to Face Group	P
Weight (kg)	N=44	N=114	N=94179	0.283
Mean change	-2.21	-2.13	-1.52	
(95%CI)	(-3.39, -1.03)	(-2.98, -1.29)	(1.95, -1.10)	
QOL-Mental	N=23	N=26	N=61	0.001
Mean change	5.44	-8.95	-8.16	
(95%CI)	(-1.87,12.76)	(-15.11, -2.78)	(-11.94, -4.38)	
IES total	N=21	N=57	N=124	0.258
Mean change	0.37	0.20	0.25	
(95%CI)	(0.16, 0.59)	(0.11, 0.3)	(0.18, 0.33)	
Pain	N=25	N=31	N=21	0.365
Mean change	3.4	7.26	3.43	
(95%CI)	(-1.81, 8.61)	(3.42, 11.1)	(-1.97, 8.83)	

Conclusion

Telehealth is as effective as face to face delivery models in providing patient self management lifestyle intervention programs and may be superior in relation to mental health. Telehealth enables equitable access for more patients who choose to receive treatment from their home.

















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