



INTRODUCTION

- It is essential to prioritise patients for metabolic and bariatric surgery (MBS) based on their potential postoperative benefits.
- Quality of life (QoL) is one component of the core outcome set for MBS to inform clinical decision-making.

AIMS AND HYPOTHESIS:

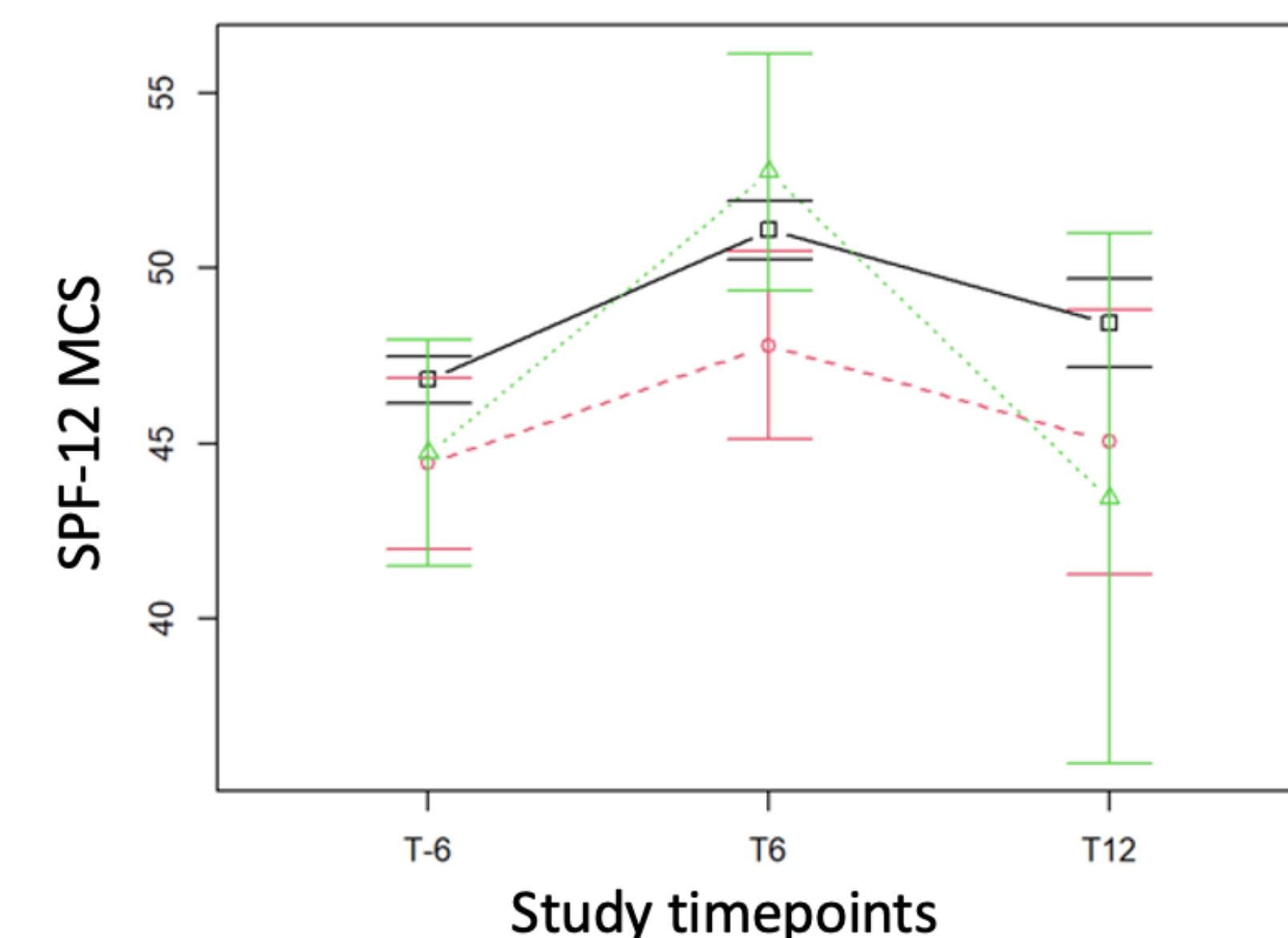
- We aimed to examine changes in QoL during the first postoperative year.
- We hypothesised that patients with varied obesity classes and comorbidity status will experience QoL benefits from MBS.

RESULTS:

- We found significant interactions between time and group for weight, BMI and %EWL ($p < 0.001$, for all).
- There were no interactions between time and group for the physical components summary (PCS) and mental components summary (MCS) of QoL.
- There were main effects of time for physical ($p < 0.001$) and mental ($p < 0.001$) component of , indicating that PCS increased consistently across time and MCS increased from pre- to 6 months post-surgery.

RESULTS:

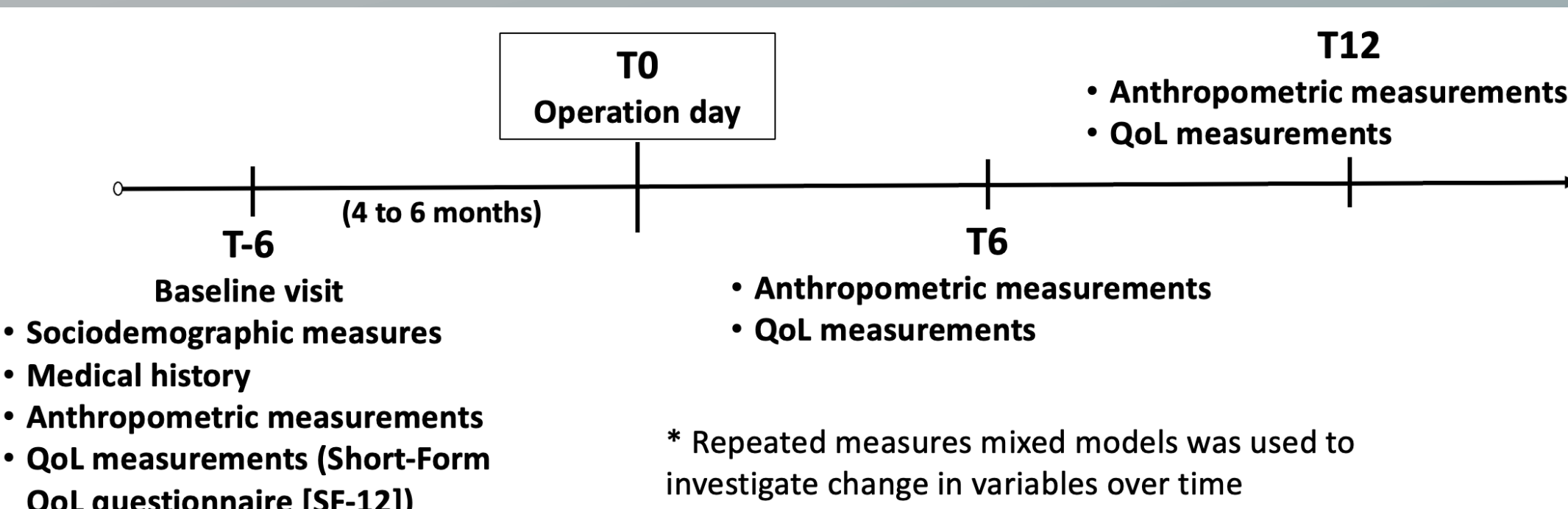
Figure 1. The change trajectory in SF-12 MCS and the time by group interactions



- There was no significant difference in change trajectory between groups over time.

METHODS:

Groups	Conditions	
	Class of obesity	Comorbidity
G1	Class II ($35 \leq \text{BMI} < 40$)	No
	Class II ($30 \leq \text{BMI} < 35$)	Yes
G2	Class II ($35 \leq \text{BMI} < 40$)	Yes
G3	Class III ($\text{BMI} \geq 40$)	Yes/No



RESULTS:

Dependent Variable	Main effect time		Main effect group		Time-group interaction	
	F	P-value	F	P-value	F	P-value
Weight	204.48	<0.001	45.96	<0.001	6.75	<0.001
BMI	259.87	<0.001	69.16	<0.001	10.43	<0.001
EWL%	162.17	<0.001	0.19	0.66	8.4	<0.001
SF-12 PCS	804.17	<0.001	4.16	0.01	1.28	0.27
SF12 MCS	629.33	<0.001	3.32	0.04	0.65	0.63

CONCLUSION:

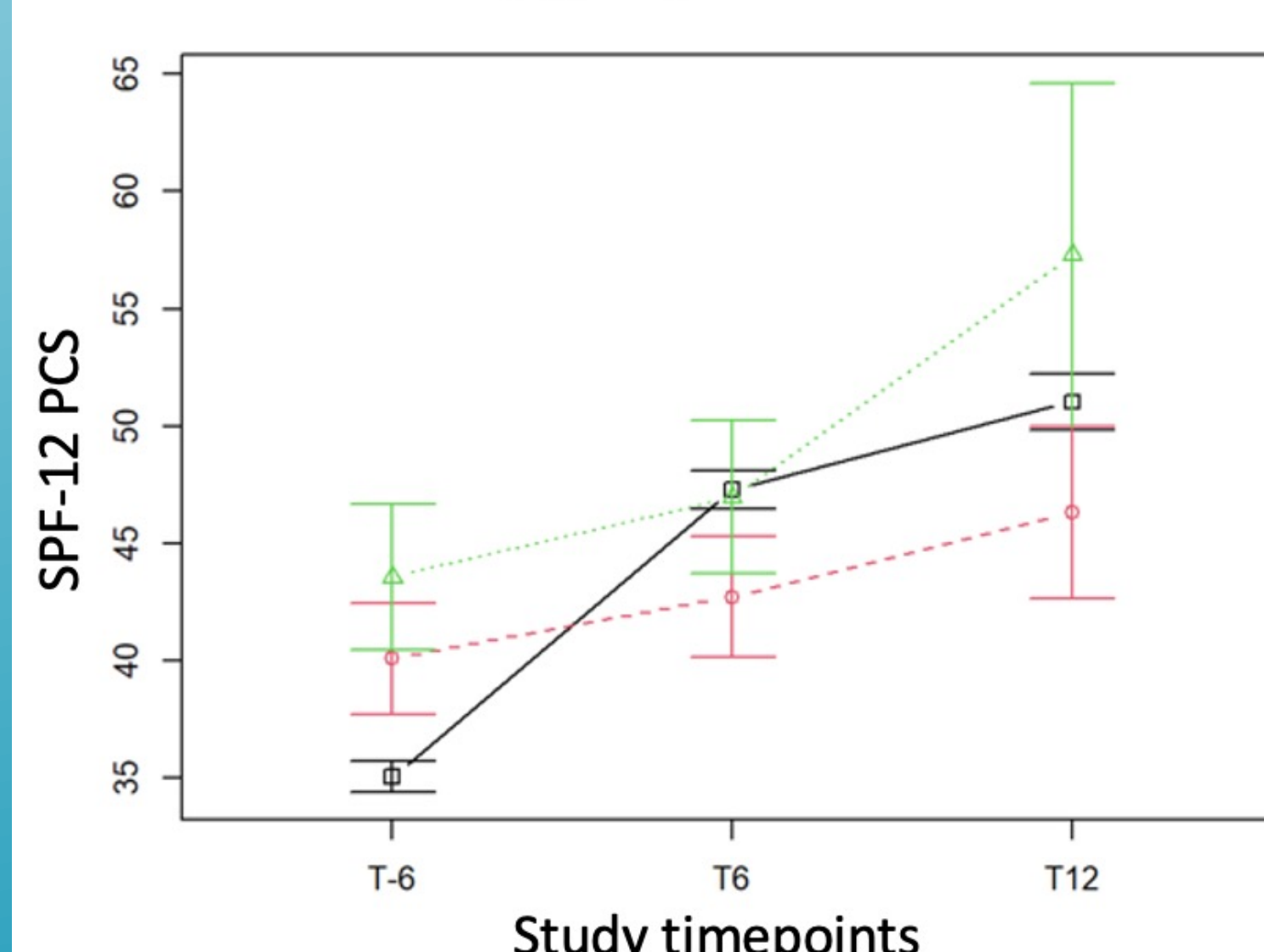
- All patients had similar patterns of changes in QoL despite different weight trajectories
- This suggests not excluding patients due to their initial weight and comorbidity status
- Eligibility criteria should encompass all patients who might benefit from surgery

PARTICIPANT CHARACTERISTICS:

Variable		Group 1 (n=28)	Group 2 (n=36)	Group 3 (n=460)
Mean (SD) or % (N)				
Age		42.6(99.9)	47.5(10.1)	44.2(11.4)
Female		92.9(26)	72.2(26)	77.2(355)
Weight		102.8(7.8)	109.9(13.1)	139.1(27.2)
BMI		37.2(2.5)	38.2(1.4)	50.2(7.8)
MBS	Sleeves	82.1(23)	75(27)	91.3(420)
	Gastric bypass	17.9(5)	25(9)	8.7(40)

RESULTS:

Figure 1. The change trajectory in SF-12 PCS and the time by group interactions



- There was no significant difference in change trajectory between groups over time.

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