Table S1 SPIRIT diagram for the trial

		Study Period										
Allocation	Allered		Intervention 1									
	Allocation	Intervention2							Follow-up			
Time point	Preoperative Clinic	Waiting for Surgery (1-3 weeks)		erative ny 1	Day of Surgery	POD1	POD2	POD3		POI (or the d	ay before	POD30
Enrollment						•			•			
Screen for eligibility	0											
Informed consent	0											
Basic history taking (height, weight, PMH, comorbidities)	0											
Randomization and allocation	0											
Intervention	l	,	•		1					•		
Immunonutrition supplement	0	0	0									
Oral decontamination			0		0	0	0	0				
Assessment												
Fried phenotype scale	0		0							0		

NRS 2002	0							0	
MMSE	0							0	
Grip strength	0	0						0	
SPPB	0	0						0	
Daily METs	0								
Muscle ultrasound		0				0			
Oral health assessment	l l	I	1			I		1	1
ROAG	0								
Swallowing function (TOR-BSST)	0								
Respiratory assessment									
SpO2	0	0	0	0		0		0	
Pulmonary ultrasound		0		0		0			
Peripheral blood test	0	0				0		0	
Postoperative recovery assessment		l	1			1			I
QoR15		0		0	0	0		0	
WHODAS-II	0								0
Functional recovery		0		0	0	0	0	0	

Ward visit for follow-up			0	0	0	0	0	
Telephone for follow-up								0