

Table S1 Treatment strategies for different patients after critical status events

Groups	Patient number	Critical status events	Treatment measure
SLC	11	Pleural effusion	Thoracentesis and catheter drainage
SLC	3	Pericardial effusion	Pericardiocentesis and catheter drainage
SLC	39	Pleural effusion	Thoracentesis and catheter drainage
SLC	35	Pulmonary infection	Anti-infective treatment
SLC	38	Deep venous thromboembolism	Interventional and anticoagulant treatments
SLC	16	Pulmonary infection	Anti-infective treatment
SLC	1	Airway stenosis	Tracheal stent placement
SLC	4	Bronchiectasis with infection	Anti-infective and anti-inflammatory treatments
SLC	10	Cerebral radiation necrosis	Anti-inflammatory treatment
SLC	18	Leukopenia induced by chemotreatment	Promoting hematopoiesis, anti-infective and nutritional support treatment
SLC	24	Heart failure	Radiofrequency ablation
SLC	6	Postoperative lung injury	Ventilator support and expectorant treatments
SLC	30	AECOPD	Anti-inflammatory treatment
SLC	23	Airway stenosis	Tracheal stent placement
SLC	2	Pleural effusion	Thoracentesis and catheter drainage
SLC	40	Interstitial pneumonitis	Ventilator support and immunotherapy
SLC	31	Heart failure	Cardiotonic, diuretic, and vasodilator treatments
SLC	15	Interstitial pneumonitis	Anti-inflammatory and antifibrotic treatments
SLC	37	Pulmonary infection	Anti-inflammatory, oxygen inhalation, expectorant and nutritional support treatment
SLC	33	CIP	Anti-inflammatory treatment
SLC	9	Immune thrombocytopenia	Anti-inflammatory and immunosuppressive treatment
SLC	34	Severe airway stenosis	Tracheal stent placement
SLC	28	Pleural effusion	Catheter drainage
SLC	13	Pulmonary infection	Anti-infective treatment
SLC	32	Radiation pneumonitis	Antifibrotic treatment
SLC	19	Leukopenia induced by chemotreatment	Promoting hematopoiesis and anti-infective treatment
SLC	8	Pulmonary infection	Anti-infective treatment
SLC	29	Interstitial pneumonitis	Anti-inflammatory treatment
SLC	27	CIP	Anti-inflammatory treatment
SLC	17	Severe airway stenosis	Tracheal stent placement
SLC	5	CIP	Anti-inflammatory treatment
SLC	26	Pulmonary infection	Anti-infective treatment
SLC	25	Haemoptysis	Bronchial artery embolization
SLC	20	Haemoptysis	Bronchial artery embolization
SLC	41	Pulmonary infection, Malignant pericardial effusion	Anti-infective treatment, pericardiocentesis and catheter drainage
SLC	21	Pulmonary infection	Anti-infective and anti-inflammatory treatments
SLC	36	Pleural effusion	Thoracentesis and catheter drainage
SLC	12	Pleural effusion	Thoracentesis and catheter drainage
SLC	7	Heart failure	Anti-heart failure treatment
SLC	22	AECOPD	Anti-infective and anti-inflammatory treatments
SLC	14	Haemoptysis	Bronchial artery embolization
Non-SLC	56	Pleural effusion	Thoracentesis and catheter drainage
Non-SLC	49	Pulmonary infection	Anti-infective and anti-inflammatory treatments
Non-SLC	45	Haemoptysis	Pharmacologic hemostasis
Non-SLC	46	Pleural effusion	Anti-infective treatment
Non-SLC	43	Bilateral pleural effusion complicated with pulmonary infection	Anti-infective treatment
Non-SLC	52	Cerebral radiation necrosis	Anti-inflammatory treatment
Non-SLC	47	Heart failure	Cardiotonic, diuretic, and vasodilator treatments
Non-SLC	44	Haemoptysis	Bronchial artery embolization
Non-SLC	54	Pulmonary infection	Anti-infective treatment
Non-SLC	48	AECOPD	Anti-inflammatory treatment
Non-SLC	60	Heart failure	Cardiotonic, diuretics, and vasodilator treatment
Non-SLC	58	Cerebral radiation necrosis	Anti-inflammatory treatment
Non-SLC	55	Deep venous thromboembolism	Thrombectomy
Non-SLC	51	Pulmonary infection	Anti-infective treatment
Non-SLC	61	Pulmonary infection	Anti-infective and anti-inflammatory treatments
Non-SLC	50	Heart failure	Cardiotonic, diuretics, and Vasodilator treatment
Non-SLC	59	CIP	Anti-inflammatory treatment
Non-SLC	57	Pulmonary infection	Anti-infective treatment
Non-SLC	53	Haemoptysis	Bronchial artery embolization
Non-SLC	42	Airway stenosis	Tracheal stent placement

SLC: severe lung cancer; Non-SLC: non-severe lung cancer; AECOPD: acute exacerbation of chronic obstructive pulmonary disease; CIP: checkpoint inhibitor pneumonitis.