

Supplement Table 23. Summary of clinical outcomes from randomized controlled trials evaluating indirect calorimetry-guided versus predictive equation-guided energy provision in critically ill adult patients (KQ9)

Author (year)	Group	No	Delivered energy (kcal/d) (mean±SD)	Cumulative energy balance (kcal) (mean±SD)	Daily energy balance (kcal/d) (mean±SD)	Mortality (n) ICU / H / 28/30 d	Infection (n)	Pneumonia (n)	LOS (day) ICU / H (Mean±SD)	MV days (Mean±SD)
Jeerangsapasuk et al. 2025 [106]	Inter.	40	1,510±305		−185±239	7	29	17	13.2±2.96 24.82±3.11	12.92±2.98
	Con.	40	1,333±422		−76±567	16	30	17	14.2±1.69 22.65±3.38	11.77±1.51
Elizabeth et al., 2024 [107]	Inter.	10				3			12.5±13.75 82.5±89.58	
	Con.	11				3			6.67±11 42.33±27.5	
Singer et al., 2021 [108]	Inter.	209	1,746±755		−282±896	45	31	22	13.1±12.5 26.8±28.9	10.2±9.3
	Con.	208	1,301±535		−885±535	46	42	23	12.2±8.9 25±16	9.8±8
Farah Hanim et al., 2021 [109]	Inter.	73	1,507.1±172.7	46.5±369.5	−4.99±44				9.7±7.8	8.2±7.9
	Con.	73	1,519.3±200.9	−1,165±958.1	−148.8±105.1				9.4±5.6	8.3±5.3
Gonzalez-Granda et al. 2019 [110]	Inter.	20	20.4 (%)±5.7			3 5	19	4	13±8 31±24	9±8
	Con.	20	20(%)±7.5			3 3	12	4	24±20 40±23	10±5
Allingstrup et al. 2017 [111]	Inter.	100	1,877±171.75		−66±37.75	20			11.33±12.59 31.67±30.37	
	Con.	99	1,061±181.3		−787±222.5	21			7.33±5.19 33.67±28.89	
Landes et al. 2016 [112]	Inter.	15		86.50%±12.4						48.6±21.7
	Con.	12		77.00%±17.6						46±31.2
Singer et al. 2011 [113]	Inter.	65	2,086±460	2,008±2,117		16 16	37	18	17.2±14.6 33.8±22.9	16.1±14.6
	Con.	65	1,480±356	−3,550±4,591		17 27	20	9	11.7±8.4 31.8±27.3	11.7±8.4

SD, standard deviation; ICU, intensive care unit; H, hospital; LOS, length of stay; MV, mechanical ventilation.

