

Supplement Table 18. Summary of randomized controlled trials comparing post-pyloric versus gastric enteral nutrition in critically ill adult patients (KQ8)

Author, year	Country	Study design	ICU type	Patients, n (G/P)	Age, yr (G/P)	Male/female (G/P)	APACHE II (G/P)	Feeding start, hr	Feeding route	Outcomes reported
Acosta-Escribano, 2010 [89]	Spain	RCT	Trauma	54/50	41.0±20.0/ 35.0±17.0	G: 46/8, P: 44/6	18.0±5.0/ 16.0±4.0	≤24 hr of ICU admission	Gastric vs. transpyloric	VAP, EN-related GI complications, duration of MV, length of ICU stay and hospital stay
Davies, 2012 [90]	Australia	RCT	Mixed	89/91	54.0±18.0/ 51.0±19.0	G: 71/18, P: 62/29	20.0±8.0/ 20.0±7.0	Likely ≤48 hr of ICU admission	NG vs. NJ	VAP, duration of MV, length of hospital stay, in-hospital mortality
Huang, 2012 [91]	Taiwan	RCT	Medical	51/50	68.3±6.2/ 70.9±13.2	G: 35/16, P: 37/13	19.6±6.2/ 21.0±6.8	NR	NG vs. ND	Length of ICU stay, hospital mortality, feeding complications (gastric retention, diarrhea, vomiting, GI bleeding)
Friedman, 2015 [92]	Brazil	RCT	Mixed	61/54	60.0±14.0/ 63.0±17.0	G: 26/35, P: 30/24	22.0±6.0/ 22.0±7.0	≤48 hr of ICU admission	NG vs. NJ	Pneumonia, 28-day mortality, length of ICU stay, duration of MV, diarrhea, vomiting, constipation
Wan, 2015 [93]	China	RCT	Mixed	35/35	52.0±3.7/ 52.7±3.6	G: 25/10, P: 23/12	NR	≤24 hr of ICU admission	NG vs. NI	EN complications including bloating, diarrhea, reflux, upper GI bleeding, liver damage, pneumonia, length of ICU stay, duration of MV
Taylor, 2016 [94]	UK	RCT	Mixed	25/25	51.0(36.0-59.0)/ 53.0(42.0-61.0) ^a	G: 18/7, P: 20/5	20.0(13.0-19.0)/ 18.0(12.0-24.0) ^a	≤24-48 hr of ICU admission	NG vs. NI	VAP, VFDs, ICU-free day, mortality
Zhu, 2018 [95]	China	RCT	Medical	71/70	82.0(75.0-92.0)/ 82.0(75.0-99.0) ^b	G: 45/26, P: 43/27	27.8±7.6/ 28.09±6.75	Likely ≤48 hr of ICU admission	Gastric vs. postpyloric	VAP, vomiting, diarrhea, abdominal pain, abdominal distension, duration of MV, length of ICU and hospital stay, mortality in the ICU and hospital
O'Keefe, 2023 [96]	USA	RCT	Medical	11/14	52.9(35.4)/ 57.0(25.8) [†]	G: 6/5, P: 8/6	11.0(9.0)/ 12.0(12.0) ^c	NR	NG vs. distal jejunal	feeding failure, nausea, vomiting, death, length of ICU and hospital stay

ICU, intensive care unit; G, gastric group; P, post-pyloric group; APACHE II, Acute Physiology and Chronic Health Evaluation II; RCT, randomized controlled trial; VAP, ventilator-associated pneumonia; EN, enteral nutrition; GI, gastrointestinal; MV, mechanical ventilation; NG, nasogastric; NJ, nasojejunal; ND, nasoduodenal; NI, nasointestinal; NR, not reported; VFDs, ventilator-free days.

^aMedian (interquartile range); converted to mean (SD) using Wan et al. (2014); ^bResults are presented as median (range); ^cResult is presented as Median (IQR width), not as

Median (Q1–Q3).

<https://www.e-acnm.org>

