

Supplementary Table 2. Summary of evidence for prophylactic antibiotics

Study	Publication year	Country	Study period	Population (adults vs. children)	Major indications for PEG	No. of participants	PEG method	IV antibiotics	Control	Follow-up (day)	Antibiotics-related adverse event (n)
Jonas et al. ³⁷	1985	USA	1982–1984	N/A	Swallowing dysfunction, head and neck cancer	33	Pull	Cefoxitin	Placebo	≥4	N/A
Jain et al. ³⁸	1987	USA	1984–1986	N/A	Swallowing dysfunction, oropharyngeal cancer	55	Pull	Cefazolin	Placebo	2–7	N/A
Akkersdijk et al. ³⁹	1995	The Netherlands	N/A	N/A	Swallowing dysfunction, oropharyngeal cancer	69	Pull	Amoxicillin/clavulanic acid	No antibiotics	30	N/A
Sturgis et al. ⁴⁰	1996	USA	1994–1995	N/A	Neurological diseases, malignancy	61	Pull	Cefazolin	Placebo	7	N/A
Gossner et al. ⁴¹	1999	Germany	1993–1995	N/A	Swallowing dysfunction, obstruction	307	Pull	Cefotaxime or piperacillin/tazobactam	No antibiotics	7	N/A
Preclik et al. ⁴²	1999	Germany	N/A	Adults	Swallowing dysfunction, oropharyngeal or esophageal cancer	84	Pull	Amoxicillin/clavulanic acid	Placebo	≥7	Antibiotics group: nausea (1), seizure (1) Placebo group: vomiting (1), suspected allergic exanthema (1)
Dormann et al. ⁴³	2000	Germany	N/A	Adults	Swallowing dysfunction, malignancy	216	Pull	Ceftriaxone	No antibiotics	10	N/A
Panigrahi et al. ⁴⁴	2002	UK	N/A	Adults	Swallowing dysfunction, malignancy	58	Pull	Amoxicillin/clavulanic acid	Placebo	7, 28	N/A
Ahmad et al. ⁴⁵	2003	UK	N/A	Adults	Swallowing dysfunction, oropharyngeal cancer	66	Pull	Cefuroxime	Placebo	7	Antibiotics group: Clostridium difficile-associated diarrhea (3) Placebo group: C. difficile-associated diarrhea (0)
Saadeddin et al. ⁴⁶	2005	UK	2001–2003	Adults	Swallowing dysfunction	83	Pull	Amoxicillin/clavulanic acid	Placebo	≥7	N/A
Radhakrishnan et al. ⁴⁷	2006	UK	1999–2004	N/A	Swallowing dysfunction	62	Pull	Cefuroxime	No antibiotics	7	N/A
Shastri et al. ⁴⁹	2008	Germany	2003–2007	N/A	Malignancy	93	Push	Ceftriaxone	Placebo	7	N/A
Adachi et al. ⁵⁰	2016	Japan	2009–2013	N/A	Swallowing dysfunction	90	Push	Ampicillin/sulbactam	Placebo	7	N/A
Alessandri et al. ⁴⁸	2021	Italy	2014–2019	Children	Swallowing dysfunction	49	Pull	Amoxicillin/clavulanic acid	Placebo	14	Antibiotics group: none Placebo group: none

PEG, percutaneous endoscopic gastrostomy; IV, intravenous; N/A, not applicable.