

**Supplementary Table 1 The search strategy**

<b>Database</b>	<b>Search strategy</b>
<b>PubMed</b>	<p>#4: Search: (((((short bowel syndrome[Title/Abstract]) OR (short gut[Title/Abstract])) OR (SBS[Title/Abstract])) OR (intestinal failure[Title/Abstract])) AND (((((child[Title/Abstract]) OR (infant[Title/Abstract])) OR (pediatric[Title/Abstract])) OR (neonat[Title/Abstract])) OR (adolescent[Title/Abstract])))) AND ((((((Teduglutide[Title/Abstract]) OR (Gattex[Title/Abstract])) OR (Revestive[Title/Abstract])) OR (GLP-2[Title/Abstract])) OR (glucagon like peptide-2[Title/Abstract])) OR (intestinal growth factor[Title/Abstract]))</p> <p>#3: Search: (((((Teduglutide[Title/Abstract]) OR (Gattex[Title/Abstract])) OR (Revestive[Title/Abstract])) OR (GLP-2[Title/Abstract])) OR (glucagon like peptide-2[Title/Abstract])) OR (intestinal growth factor[Title/Abstract]))</p> <p>#2: Search: (((((child[Title/Abstract]) OR (infant[Title/Abstract])) OR (pediatric[Title/Abstract])) OR (neonat[Title/Abstract])) OR (adolescent[Title/Abstract]))</p> <p>#1: Search: (((short bowel syndrome[Title/Abstract]) OR (short gut[Title/Abstract])) OR (SBS[Title/Abstract])) OR (intestinal failure[Title/Abstract]))</p>
<b>Web of Science</b>	<p>4: #3 AND #2 AND #1</p> <p>3: (((((TS=(Teduglutide)) OR TS=(Gattex)) OR TS=(Revestive)) OR TS=(GLP-2)) OR TS=(glucagon like peptide-2)) OR TS=(intestinal growth factor)</p> <p>2: (((((TS=(child)) OR TS=(infant)) OR TS=(pediatric)) OR TS=(neonat)) OR TS=(adolescent))</p> <p>1: (((TS=(short bowel syndrome)) OR TS=(short gut)) OR TS=(SBS)) OR TS=(intestinal failure)</p>

**Embase**      #19: #5 AND #11 AND #18  
#18: #12 OR #13 OR #14 OR #15 OR #16 OR #17  
#17: intestinal AND ('growth'/exp OR growth) AND factor  
#16: ('glucagon'/exp OR glucagon) AND like AND ('peptide 2'/exp OR 'peptide 2')  
#15: 'glp 2'/exp OR 'glp 2'  
#14: 'revestive'/exp OR Revestive  
#13: 'gattex'/exp OR gattex  
#12: 'teduglutide'/exp OR Teduglutide  
#11: #6 OR #7 OR #8 OR #9 OR #10  
#10: 'adolescent'/exp OR adolescent  
#9: neonat  
#8: 'pediatric'/exp OR pediatric  
#7: 'infant'/exp OR infant  
#6: 'child'/exp OR child  
#5: #1 OR #2 OR #3 OR #4  
#4: intestinal AND ('failure'/exp OR failure)  
#3: sbs  
#2: short AND ('gut'/exp OR gut)  
#1: short AND ('bowel'/exp OR bowel) AND ('syndrome'/exp OR syndrome)

Supplementary Table 2: The basic characteristics of the included trials

Study	Design	Sample size		Age		Sex (M/F)	
		T	C	T	C	T	V
Carter et al 2017	RCT	15	5	4.0(1, 14)	4.0(1, 14)	8/7	3/2
Kocoshis et al 2020	RCT	26	9	6±4	6±5	19/7	6/3
Cucinotta et al 2024	RCT	30	30	12(10.4–14.7)	11.9(7.2–17)	20/10	18/12

Certainty assessment							Summary of findings				
Participants (studies) Follow-up	Risk of bias	Inconsistency	Indirectness	Imprecision	Publication bias	Overall certainty of evidence	Study event rates (%)		Relative effect (95% CI)	Anticipated absolute effects	
							With [comparison]	With T		Risk with [comparison]	Risk difference with T

55 (2 RCTs)	serious <sup>a</sup>	not serious	not serious	not serious	none	⊕⊕⊕○ Moderate <sup>a</sup>	7/14 (50.0%)	17/41 (41.5%)	<b>RR 0.83</b> (0.44 to 1.56)	7/14 (50.0%)	<b>85 fewer per 1,000</b> (from 280 fewer to 280 more)
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55 (2 RCTs)	serious <sup>a</sup>	not serious	not serious	not serious	none	⊕⊕⊕○ Moderate <sup>a</sup>	6/14 (42.9%)	12/41 (29.3%)	<b>RR 0.68</b> (0.32 to 1.47)	6/14 (42.9%)	<b>137 fewer</b> <b>per 1,000</b> (from 291 fewer to 201 more)
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55 (2 RCTs)	serious <sup>a</sup>	not serious	not serious	not serious	none	⊕⊕⊕○ Moderate <sup>a</sup>	0/14 (0.0%)	4/41 (9.8%)	<b>RR 1.86</b> (0.23 to 14.78)	0/14 (0.0%)	<b>0 fewer per 1,000</b> (from 0 fewer to 0 fewer)
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55 (2 RCTs)	serious <sup>a</sup>	not serious	not serious	not serious	none	⊕⊕⊕○ Moderate <sup>a</sup>	5/14 (35.7%)	15/41 (36.6%)	<b>RR 1.35</b> (0.10 to 18.23)	5/14 (35.7%)	<b>125 more per 1,000</b> (from 321 fewer to 1,000 more)
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55 (2 RCTs)	serious <sup>a</sup>	not serious	not serious	not serious	none	⊕⊕⊕○ Moderate <sup>a</sup>	1/14 (7.1%)	10/41 (24.4%)	<b>RR 2.47</b> (0.50 to 12.16)	1/14 (7.1%)	<b>105 more per 1,000</b> (from 36 fewer to 797 more)
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Certainty assessment							Summary of findings				
55 (2 RCTs)	serious <sup>a</sup>	not serious	not serious	not serious	none	⊕⊕⊕○ Moderate <sup>a</sup>	1/14 (7.1%)	5/41 (12.2%)	<b>RR 1.31</b> (0.24 to 7.22)	1/14 (7.1%)	<b>22 more per 1,000</b> (from 54 fewer to 444 more)

## Diarrhea

55 (2 RCTs)	serious <sup>a</sup>	not serious	not serious	not serious	none	⊕⊕⊕○ Moderate <sup>a</sup>	2/14 (14.3%)	6/41 (14.6%)	<b>RR 1.02</b> (0.23 to 4.43)	2/14 (14.3%)	<b>3 more per 1,000</b> (from 110 fewer to 490 more)
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## Abdominal distension

55 (2 RCTs)	serious <sup>a</sup>	not serious	not serious	not serious	none	⊕⊕⊕○ Moderate <sup>a</sup>	0/14 (0.0%)	3/41 (7.3%)	<b>RR 1.49</b> (0.18 to 12.35)	0/14 (0.0%)	<b>0 fewer per 1,000</b> (from 0 fewer to 0 fewer)
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**CI:** confidence interval; **RR:** risk ratio

**Explanations:** a. Sample size is too small