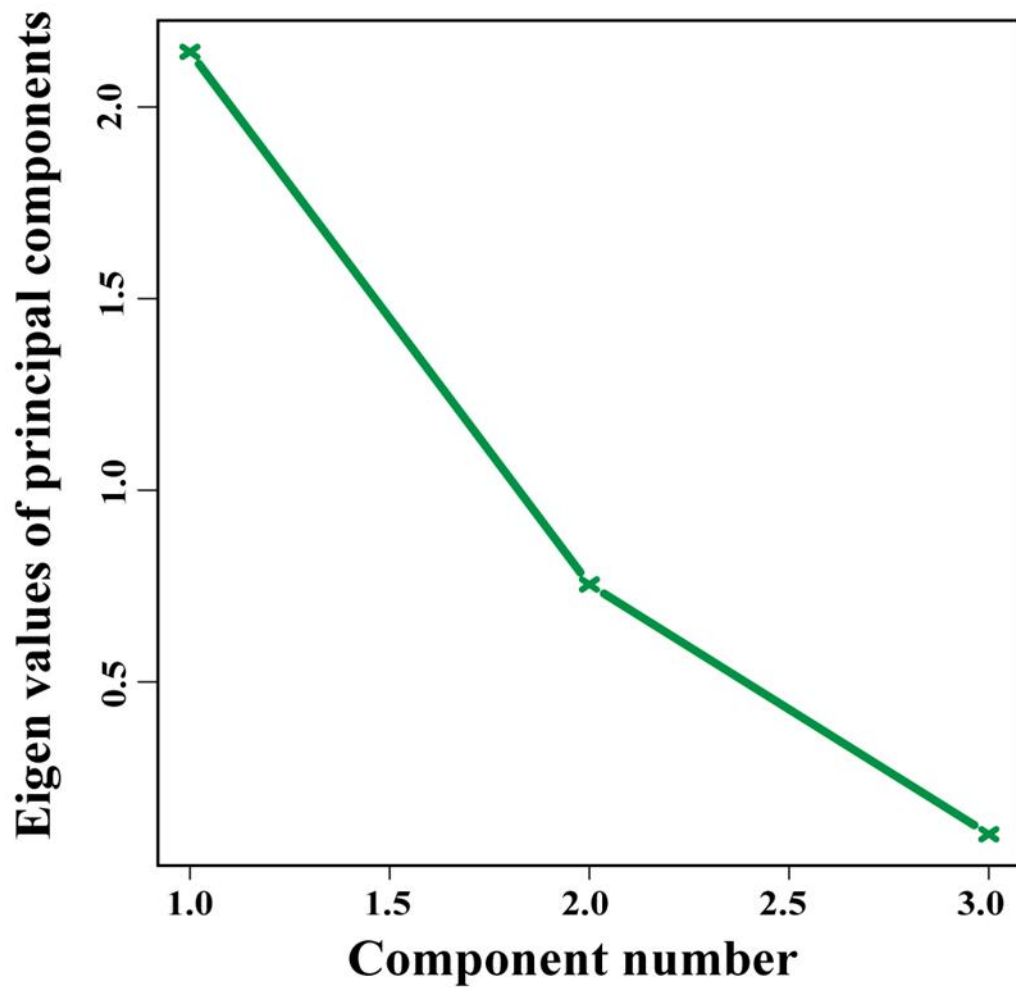


**Supplementary figure 1 images of CT findings.**

**Supplementary figure 1A.** a 49-year-old man with intussusception. Axial CT of the pelvis confirmed concentric circle sign of small bowel (red triangle). **B.**a 62-year-old woman with adhesive small bowel obstruction. Axial CT of the abdomen confirmed the small bowel feces sign(red triangle). **C.**a 49-year-old woman with adhesive small bowel obstruction. Axial CT of the abdomen showed the spiral sign of small bowel (red triangle). **D.**a 51-year-old man with inflammatory small bowel obstruction. Dilated, thickened loops of small bowel (red triangle) could be observed.

## Scree plot with parallel analysis



Supplementary figure 2 Scree plot with parallel analysis.

PCA suggested extracting one principle component is plausible.

**Supplementary table 1 The definitions for CT findings.**

<b>CT characteristics</b>	<b>Definition</b>	<b>Quotation</b>
Mesenteric fluid	hazy mesentery of the involved intestinal segments	[23, 24]
Ascites	free fluid accumulated in physical pouch or between-loops	[24]
Spiral signs	mesenteric vessels and bowel loops twisted together	[17, 24]
Concentric circle signs	pathognomonic bowel-within bowel configuration, appears as a sausage-shaped mass when CT images is obtained parallel to its longitudinal axis of digestive tract but as a target-like mass when CT images is perpendicular to the cross sections of digestive tract	[25]
Small bowel feces signs	the presence of mottled, feculent material, resembling colonic contents, in dilated small bowel immediately proximal to the transition point	[24, 25]
Mural thickening	Increase of thickness of the bowel wall	[24]

Supplementary table 2 Univariate analysis of risk factors for worse outcome of SBO.

Status on admission	Risk estimate for higher hospital cost[OR (95%CI)]	<i>p</i> value	Risk estimate for SAE[OR (95%CI)]	<i>p</i> value	Risk estimate for longer LOS[OR (95%CI)]	<i>p</i> value
BMI, (kg/ m2)	1.009(0.98,1.04)	0.36	0.703(0.520,0.906)	0.012	1.007(0.988,1.036)	0.410
Pain duration, (days)	0.999(0.979,1.015)	0.952	0.950(0.802,1.015)	0.407	1.016(1.000,1.035)	0.065
WBC, (10 <sup>9</sup> /L)	1.000(0.939,1.064)	0.931	0.679(0.818,1.097)	0.681	0.981(0.916,1.043)	0.569
NE%	1.010(0.989,1.032)	0.361	1.030(0.982,1.091)	0.267	1.002(0.982,1.024)	0.806
NLR, (ratio)	1.005(0.972,1.036)	0.716	1.027(0.970,1.071)	0.229	1.000(0.965,1.030)	0.991
LMR, (ratio)	0.741(0.590,0.903)	<b>0.005</b>	0.634(0.333,1.021)	0.113	0.724(0.574,0.887)	<b>0.003</b>
Lymphocyte, (10 <sup>9</sup> /L)	0.627(0.351,1.078)	0.101	0.055(0.006,0.318)	<b>0.003</b>	0.491(0.267,0.864)	0.017
Monocyte, (10 <sup>9</sup> /L)	0.443(0.842,3.532)	0.194	1.017(0.124,2.401)	0.980	4.612(1.720,13.116)	<b>0.003</b>
Hb, (g/L)	0.991(0.978,1.004)	0.180	0.983(0.957,1.010)	0.216	0.986(0.973,0.999)	<b>0.038</b>
PLT, (10 <sup>9</sup> /L)	1.001(0.998,1.004)	0.371	0.998(0.990,1.004)	0.737	1.001(0.997,1.004)	0.485
ALT, (U/L)	0.982(0.957,1.001)	0.106	1.012(0.985,1.031)	0.256	0.998(0.980,1.014)	0.873
AST, (U/L)	0.997(0.977,1.011)	0.716	1.019(1.002,1.040)	<b>0.027</b>	0.998(0.980,1.012)	0.835
Albumin, (g/L)	0.972(0.928,1.017)	0.224	0.958(0.873,1.053)	0.390	0.957(0.913,1.002)	0.064
Ca, (mmol/L)	0.532(0.131,2.088)	0.370	0.080(0.003,1.657)	0.113	0.229(0.053,0.929)	<b>0.042</b>
Cl, (mmol/L)	0.953(0.898,1.011)	0.110	1.044(0.919,1.203)	0.524	0.914(0.860,0.970)	<b>0.003</b>
K, (mmol/L)	1.135(0.698,1.836)	0.604	5.099(2.056,13.417)	<b>&lt;0.000</b>	0.836(0.507,1.358)	0.476
Na, (mmol/L)	0.948(0.883,1.018)	0.144	0.903(0.788,1.044)	0.153	0.929(0.864,0.997)	<b>0.043</b>
BUN, (mmol/L)	1.087(1.011,1.169)	<b>0.022</b>	1.316(1.167,1.503)	<b>&lt;0.000</b>	1.047(0.972,1.126)	0.207
Creatinine, (umol/L)	1.003(0.997,1.009)	0.294	1.019(1.009,1.003)	<b>&lt;0.000</b>	0.999(0.991,1.005)	0.836
Glu, (mmol/L)	1.119(1.031,1.219)	<b>0.007</b>	1.105(0.941,1.26)	0.174	1.084(0.999,1.178)	<b>0.049</b>

PT, (s)	1.162(0.978,1.372)	0.068	6) 1.464(1.154,1.87	<b>0.001</b>	1.084(0.914,1.277)	0.333
APTT, (s)	1.022(0.969,1.076)	0.408	1) 1.122(1.022,1.23	<b>0.012</b>	1.037(0.984,1.094)	0.165
DDI, (mg/L)	1.150(1.058,1.259)	<b>0.001</b>	3) 1.214(1.080,1.36	<b>&lt;0.000</b>	1.130(1.041,1.235)	<b>0.004</b>
Fib, (g/L)	1.127(0.938,1.349)	0.190	3) 1.255(0.892,1.67	0.144	1.080(0.896,1.293)	0.400
			2)			

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**Supplementary table 3 Previous studies on outcomes of SBO.**

<b>Author</b>	<b>Year</b>	<b>Outcomes Indicators</b>
Urgessa Soressa	2016	Postoperative complication, death
Whitney S Brandt	2018	time to tolerance of diet, length of stay, total parenteral nutrition use, and intensive care unit admission
Matthew James Lee	2019	in-hospital mortality, major complications complications arising from surgery, infection, cardiac complications, venous thromboembolism and delirium
M J Lee	2019	in-hospital mortality, complications, unplanned intensive care admission and readmission within 30 days of discharge
Dong-Kyu Lee	2020	postoperative complications, hospital cost
Christian J J Paul	2022	30-day mortality rates, in-hospital mortality, length of stay (LOS) and complication rates
This article	2022	PC score (combined severe adverse event, length of stay and total hospital cost)