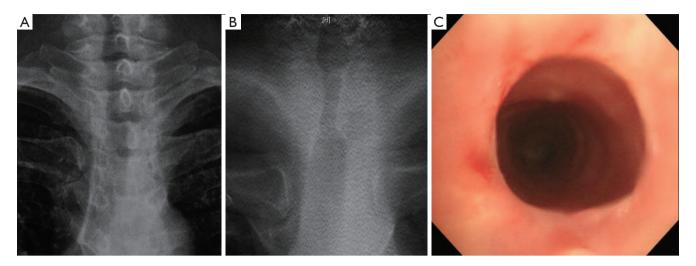


Figure S1 Principle of CXR and DTS image acquisition. CXR, chest radiography; DTS, digital tomosynthesis.

 $\textbf{Table S1} \ \ \text{Diagnostic performance of CXR and DTS in visualizing silicone stent angulation (N=213)}$ 

Ma dalala		CXR		Danilar	
Variables	n/N	% (95% CI)	n/N	% (95% CI)	<ul><li>P value</li></ul>
Stent angulation					
Sensitivity%	10/39	25.6 (13.0-42.1)	26/39	66.7 (49.8-80.9)	<0.001
Specificity%	173/174	99.4 (96.8-100.0)	167/174	96.0 (91.9-98.4)	0.035
Accuracy%	183/213	85.9 (80.5-90.3)	193/213	90.6 (85.9-94.2)	0.133
PPV%	10/11	90.9 (56.9-98.7)	26/33	78.8 (63.5-88.8)	0.373
NPV%	173/202	85.6 (93.2-87.8)	167/180	92.8 (85.9-94.2)	0.025

<sup>\*,</sup> CXR and DTS images were evaluated using the bronchoscopic view as the reference, and all cases were evaluated as "Yes (Detected)" or "No (Not detected)". CXR, chest radiography; DTS, digital tomosynthesis; CI, confidence interval; PPV, positive predictive value; NPV, negative predictive value.



**Figure S2** This is a case where the stent appears to be inserted into the trachea where the stent was previously present even though there is no actual airway stent. (A) Chest radiograph. (B) Digital tomosynthesis image. (C) The actual appearance in the bronchoscopic view.

Table S2 A  $2\times2$  contingency table according to each evaluation item (N=213)

	Detection in rigid bronchoscopy									
Presence of silicone	stent									
Detection on CXR		Yes	No	Total	Detection on DTS		Yes	No	Total	
	Yes	119	0	119		Yes	155	1	156	
	No	48	46	94		No	12	45	57	
	Total	167	46	213		Total	167	46	213	
Presence of silicone	stent at trac	hea								
Detection on CXR		Yes	No	Total	Detection on DTS		Yes	No	Total	
	Yes	41	0	41		Yes	55	1	56	
	No	23	147	170		No	9	146	155	
	Total	64	147	211		Total	64	147	211	
Presence of silicone	stent at RMI	B & RBI								
Detection on CXR		Yes	No	Total	Detection on DTS		Yes	No	Total	
	Yes	10	0	10		Yes	21	0	21	
	No	13	188	201		No	2	188	190	
	Total	23	188	211		Total	23	188	211	
Presence of silicone	stent at LME	3								
Detection on CXR		Yes	No	Total	Detection on DTS		Yes	No	Total	
	Yes	66	0	66		Yes	77	0	77	
	No	12	133	145		No	1	133	134	
	Total	78	133	211		Total	78	133	211	
Stent migration										
Detection on CXR		Yes	No	Total	Detection on DTS		Yes	No	Total	
	Yes	13	1	14		Yes	24	5	29	
	No	40	159	199		No	29	155	184	
	Total	53	160	213		Total	53	160	213	
Stent obstruction										
Detection on CXR		Yes	No	Total	Detection on DTS		Yes	No	Total	
	Yes	23	0	23		Yes	78	13	91	
	No	98	92	190		No	43	79	122	
	Total	121	92	213		Total	121	92	213	
Stent angulation										
Detection on CXR		Yes	No	Total	Detection on DTS		Yes	No	Total	
	Yes	10	1	11		Yes	26	7	33	
	No	29	173	202		No	13	167	180	
	Total	39	174	213		Total	39	174	213	

CXR, chest radiography; DTS, digital tomosynthesis; RMB, right main bronchus; RBI, right bronchus intermedius; LMB, left main bronchus.