Study or Subgroup	Events	Total	Weight	IV, Random, 95% CI
GS + Flu				
Tay 2013	109	196	3.1%	0.556 [0.484; 0.627]
Sánchez-Font 2014	39	50	1.9%	0.780 [0.640; 0.885]
Asano 2015	64	95	2.6%	0.674 [0.570; 0.766]
Boonsarngsuk 2015	90	112	2.5%	0.804 [0.718; 0.873]
Chan 2015	83	120	2.7%	0.692 [0.601; 0.773]
Kunimasa 2016	72	88	2.3%	0.818 [0.722; 0.892]
Wang 2016	44	54	1.9%	0.815 [0.686; 0.907]
Eom 2018	146	200	3.0%	0.730 [0.663; 0.790]
Tanner 2018	34	67	2.5%	0.507 [0.382; 0.632]
Kho 2019	77	114	2.7%	0.675 [0.581; 0.760]
Boonsarngsu 2020	74	90	2.3%	0.822 [0.727; 0.895]
Samaranayake 2020	42	54	2.0%	0.778 [0.644; 0.880]
Lee 2022	719	954	3.4%	0.754 [0.725; 0.781]
Total (95% CI)	**1,593**	**2,194**	**32.8%**	**0.726 [0.671; 0.775]**
Heterogeneity: Tau^2 = 0.1770; Chi^2 = 63.63, df = 12 (P < 0.001); I^2 = 81%				
GS+Flu+VBN				
Tamiya 2013	53	68	2.2%	0.779 [0.662; 0.871]
Asano 2015	80	99	2.4%	0.808 [0.717; 0.880]
Oki 2015	203	305	3.2%	0.666 [0.610; 0.718]
Asano 2017	105	129	2.6%	0.814 [0.736; 0.877]
Oki 2019	229	356	3.2%	0.643 [0.591; 0.693]
Jiang 2021	41	59	2.2%	0.695 [0.561; 0.808]
Ito 2022	1,138	1,634	3.4%	0.696 [0.674; 0.719]
Kim 2023	87	110	2.5%	0.791 [0.703; 0.863]
Oki 2022	166	300	3.2%	0.553 [0.495; 0.610]
Zheng 2023	181	214	2.8%	0.846 [0.790; 0.891]
Total (95% CI)	**2,283**	**3,274**	**27.7%**	**0.732 [0.668; 0.787]**
Heterogeneity: Tau^2 = 0.2031; Chi^2 = 75.68, df = 9 (P < 0.001); I^2 = 88%				
GS				
Chen 2014	203	283	3.1%	0.717 [0.661; 0.769]
Evison 2014	81	117	2.7%	0.692 [0.600; 0.774]
Minezawa 2015	108	149	2.8%	0.725 [0.646; 0.795]
Good 2018	38	68	2.5%	0.559 [0.433; 0.679]
Bo 2019	243	336	3.2%	0.723 [0.672; 0.770]
Zhu 2019	187	239	3.0%	0.782 [0.725; 0.833]
Hong 2021	462	607	3.3%	0.761 [0.725; 0.795]
Total (95% CI)	**1,322**	**1,799**	**20.6%**	**0.721 [0.680; 0.760]**
Heterogeneity: Tau^2 = 0.0471; Chi^2 = 17, df = 6 (P = 0.009); I^2 = 65%				
None				
Fuso 2013	343	447	3.2%	0.767 [0.725; 0.806]
Kuo 2014	198	271	3.1%	0.731 [0.674; 0.783]
Guvenc 2015	471	760	3.4%	0.620 [0.584; 0.654]
Huang 2017	1,547	2,144	3.4%	0.722 [0.702; 0.740]
Zhang 2018	180	328	3.2%	0.549 [0.493; 0.604]
Goel 2021	99	126	2.6%	0.786 [0.704; 0.854]
Total (95% CI)	**2,838**	**4,076**	**18.9%**	**0.698 [0.623; 0.764]**
Heterogeneity: Tau^2 = 0.1623; Chi^2 = 76.53, df = 5 (P < 0.001); I^2 = 93%				
Total (95% CI)	**8,036**	**11,343**	**100.0%**	**0.720 [0.691; 0.747]**
Heterogeneity: Tau^2 = 0.1438; Chi^2 = 247.53, df = 35 (P < 0.001); I^2 = 86%				
Test for subgroup differences: Chi^2 = 0.57, df = 3 (P = 0.903)				

S4 Fig. Diagnostic yield of radial probe endobronchial ultrasound based on technologies [1-13,15,17-26,28-33,35-37,39,41]. CI, confidence interval; Flu, fluoroscopy; GS, guide sheath; IV, inverse variance; VBN, virtual bronchoscopic navigation.