

Study or Subgroup	TTE		TEE		Weight	RR [95% CI]
	Events	Total	Events	Total		
<b>100% TTE usage</b>						
Gurevich 2018	1	49	1	81	0.5%	1.65 [0.11; 25.83]
Hosoba 2018	6	118	2	118	1.5%	3.00 [0.62; 14.56]
Condado 2017	16	46	21	42	10.2%	0.70 [0.42; 1.14]
Jabbar 2016	20	71	51	145	12.1%	0.80 [0.52; 1.23]
Attizzani 2015	55	116	45	91	18.1%	0.96 [0.72; 1.27]
Abud 2018	8	66	6	55	3.5%	1.11 [0.41; 3.01]
Sengupta 2015	24	47	16	64	9.9%	2.04 [1.23; 3.40]
Hayek 2017	77	234	83	220	19.7%	0.87 [0.68; 1.12]
Sherifi 2018	5	96	0	48	0.5%	5.56 [0.31; 98.46]
Gauthier 2015	9	66	9	51	4.6%	0.77 [0.33; 1.81]
<b>Total (95% CI)</b>		<b>909</b>		<b>915</b>	<b>80.7%</b>	<b>1.00 [0.79; 1.26]</b>

Heterogeneity:  $\tau^2 = 0.0479$ ;  $\chi^2 = 15.3$ ,  $df = 9$  ( $P = 0.08$ );  $I^2 = 41\%$   
 Test for overall effect:  $Z = -0.03$  ( $P = 0.98$ )

**Mixed echocardiography usage**

Kiramijyan 2016	19	352	4	55	3.2%	0.74 [0.26; 2.10]
Oguri 2014	67	403	56	403	16.1%	1.20 [0.86; 1.66]
<b>Total (95% CI)</b>		<b>755</b>		<b>458</b>	<b>19.3%</b>	<b>1.15 [0.84; 1.57]</b>

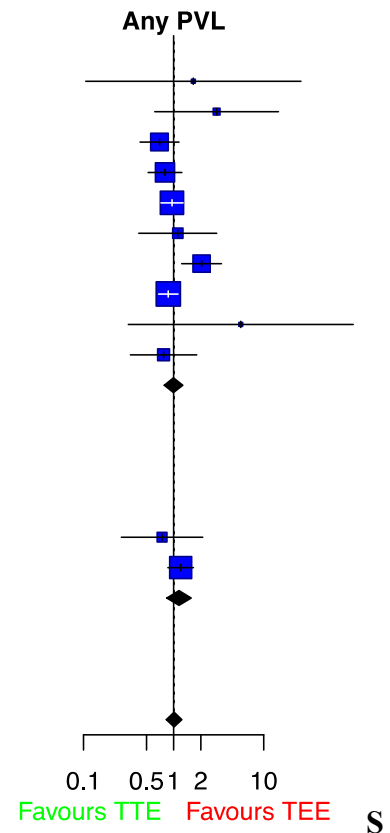
Heterogeneity:  $\tau^2 = 0$ ;  $\chi^2 = 0.74$ ,  $df = 1$  ( $P = 0.39$ );  $I^2 = 0\%$   
 Test for overall effect:  $Z = 0.86$  ( $P = 0.39$ )

**Total (95% CI)**                      **1664**                      **1373** **100.0%** **1.01 [0.83; 1.23]**

Heterogeneity:  $\tau^2 = 0.0358$ ;  $\chi^2 = 17.18$ ,  $df = 11$  ( $P = 0.10$ );  $I^2 = 36\%$

Test for overall effect:  $Z = 0.10$  ( $P = 0.92$ )

Test for subgroup differences:  $\chi^2 = 0.49$ ,  $df = 1$  ( $P = 0.49$ )



**supplementary Figure 13.** Forest plot for relative risk ratios of any PVL for TTE-TAVI in comparison to TEE-TAVI with subgroups based on rate of TTE usage. TTE: transthoracic echocardiography; TEE: transesophageal echocardiography; RR: relative risk; CI: confidence interval; TAVI: transcatheter aortic valve replacement