

Table S1 VSR data on rupture location and type of surgery

First author, year	Anterior VSR (n)	Posterior VSR (n)	Infarct exclusion (n)	Other techniques (n)
Abu-Omar (13), 2012	32	27	N/A	N/A
Barker (14), 2003	30	35	N/A	N/A
Bisoyi (15), 2020	17	4	N/A	N/A
Cinq-Mars (17), 2016	11	23	N/A	N/A
Dogra (18), 2019	29	36	26	9
Fukushima (20), 2010	35	33	N/A	N/A
Furukawa (21), 2000	10	2	0	12
Huang (22), 2015	36	11	47	0
Jeppsson (24), 2005	92	97	N/A	N/A
Khan (26), 2018	26	5	31	0
Kim (28), 2015	19	4	21	2
Labrousse (29), 2002	50	35	0	85
Malhotra (31), 2017	27	13	4	36
Mantovani (33), 2006	30	20	16	34
Martinelli (34), 2003	5	7	0	12
Okada (36), 2005	8	2	9	1
Ozkara (38), 2005	13	7	0	20
Pang (39), 2013	28	10	35	3
Pojar (40), 2018	21	18	39	0
Sakaguchi (41), 2019	N/A	N/A	N/A	N/A
Takahashi (43), 2015	24	28	5	47
Thiele (44), 2003	N/A	N/A	N/A	N/A
Wiemers (45), 2012	4	6	4	6
Yalçinkaya (46), 2016	46	17	9	54
Yam (47), 2013	34	6	0	40
Total	627	416	246	361

N/A, not-available; VSR, ventricular septal rupture.

Table S2 LVFWR data on type of rupture and type of surgery

First author, year	Oozing LVFWR (n)	Blow-out LVFWR (n)	Sutured (n)	Sutureless (n)
Formica (19), 2018	19	16	19	16
Iemura (23), 2001	14	3	10	7
Kacer (25), 2020	N/A	N/A	14	5
Mantovani (32), 2002	N/A	N/A	16	1
Matteucci (35), 2020	79	61	86	54
Okamura (37), 2019	33	2	0	35
Total	115	83	145	118

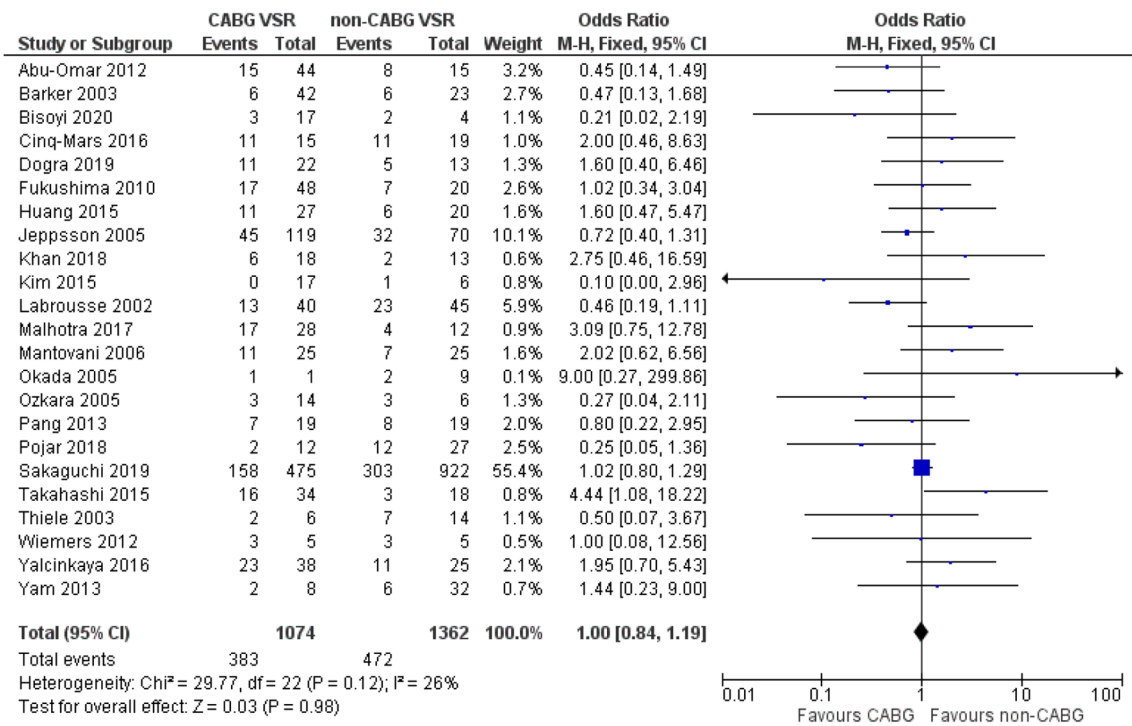
LVFWR, left ventricular free-wall rupture; N/A, not-available.

Table S3 PMR data on rupture location and type of surgery

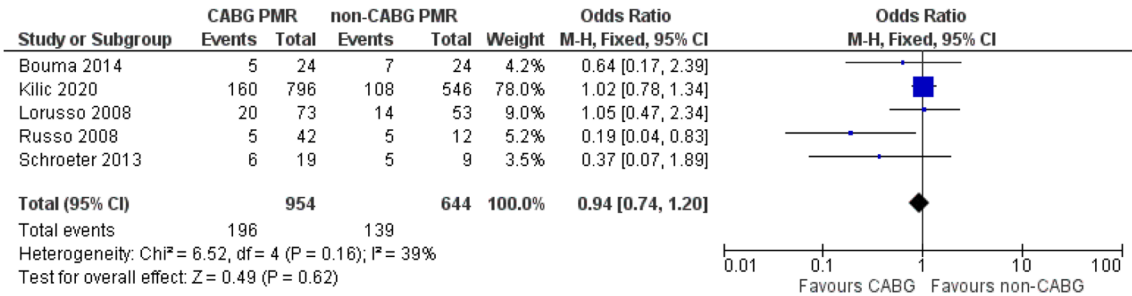
First author, year	Anterolateral PMR (n)	Posteromedial PMR (n)	MVR (n)	MVr (n)
Bouma (16), 2014	5	43	38	10
Lorusso (30), 2007	N/A	N/A	96	30
Kilic (27), 2020	N/A	N/A	1,071	271
Russo (6), 2008	5	49	41	13
Schroeter (42), 2013	11	17	25	3
Total	21	109	1,271	327

MVR, mitral valve replacement; MVr, mitral valve repair; N/A, not-available; PMR, papillary muscle rupture.

A



B



C

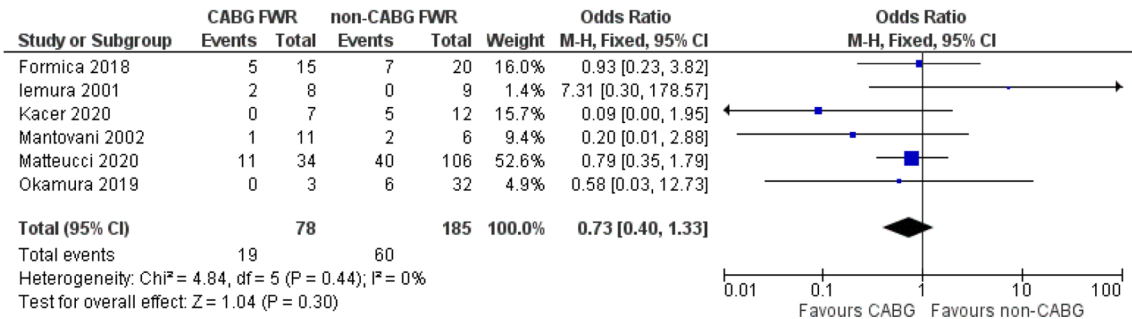
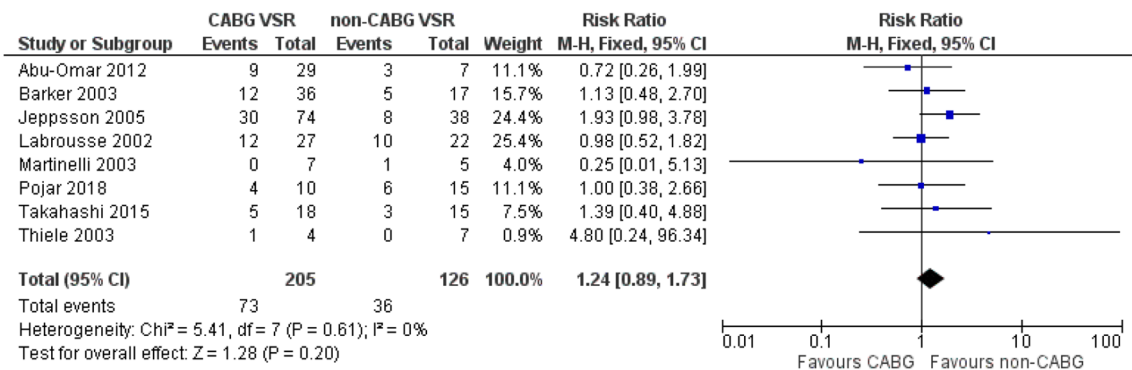
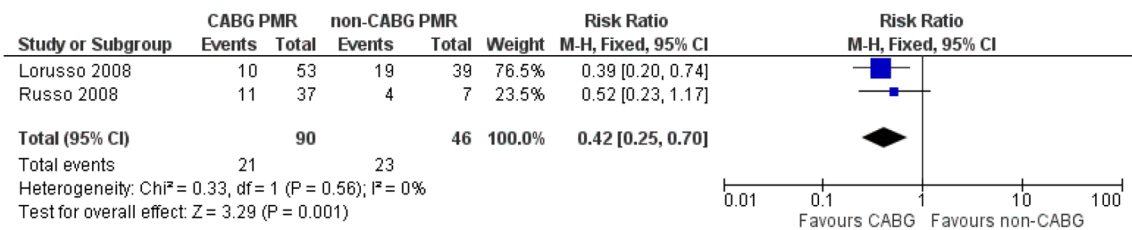


Figure S1 Subgroup analysis of early mortality for VSR (A), PMR (B) and LVFWR (C). CABG, coronary artery bypass grafting; CI, confidence interval; LVFWR, left ventricular free-wall rupture; M-H, Mantel-Haenszel; PMR, papillary muscle rupture; VSR, ventricular septal rupture.

A



B



C

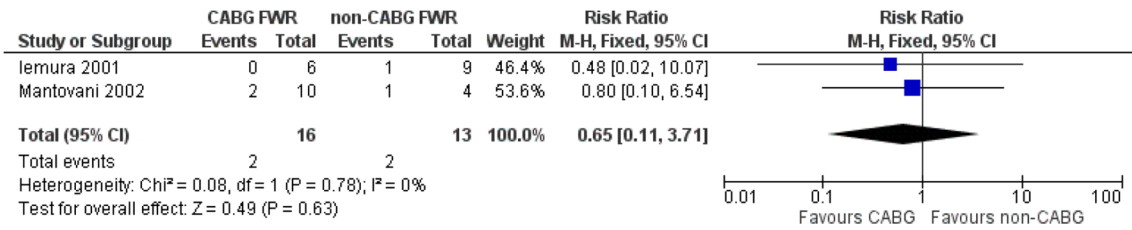


Figure S2 Subgroup analysis of late mortality for VSR (A), PMR (B), and LVFWR (C). CABG, coronary artery bypass grafting; CI, confidence interval; LVFWR, left ventricular free-wall rupture; M-H, Mantel-Haenszel; PMR, papillary muscle rupture; VSR, ventricular septal rupture.