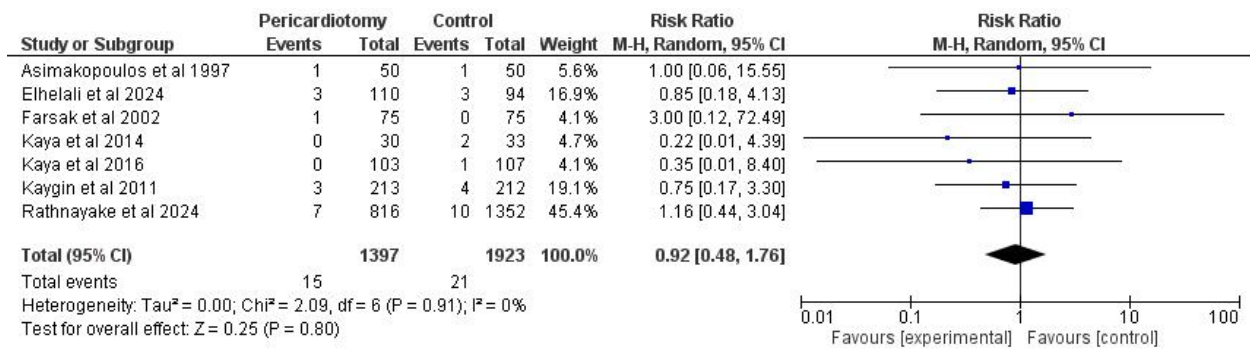
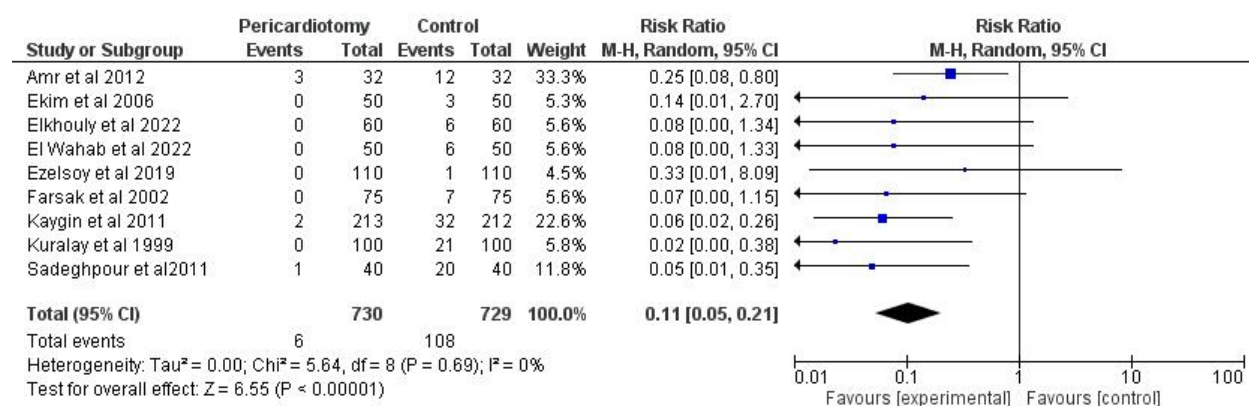
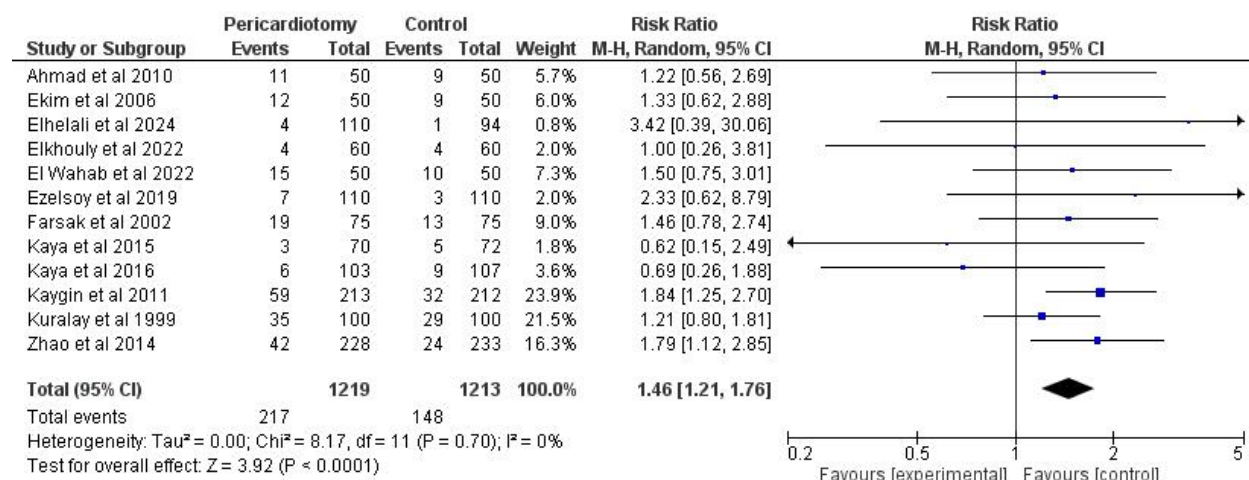




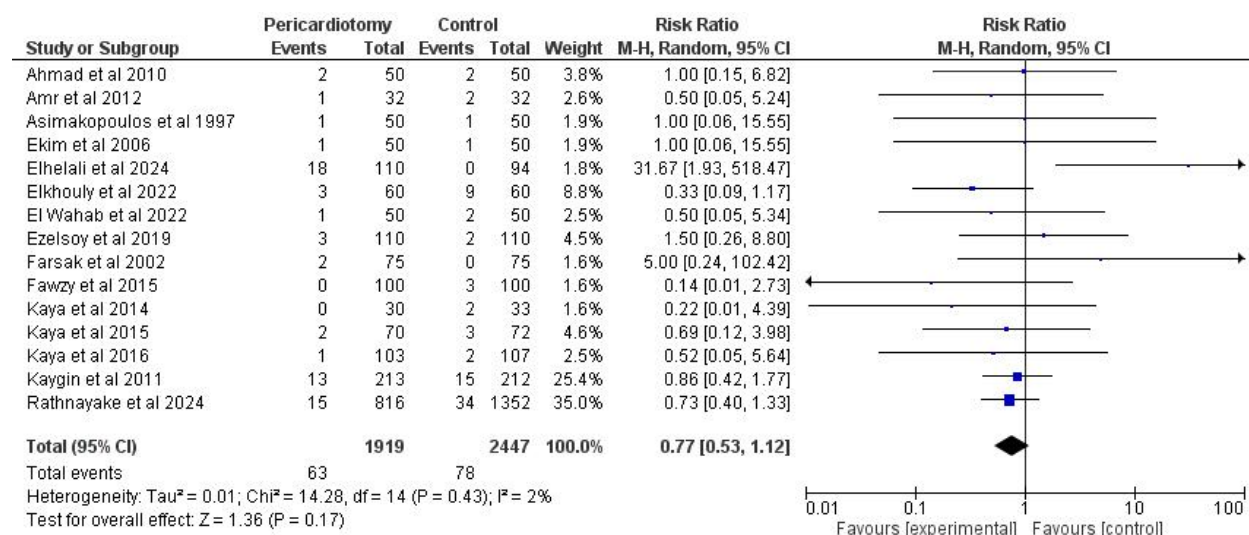
Supplementary Figure 1 Forest comparing mortality between post-pericardiotomy after CABG and no PP.



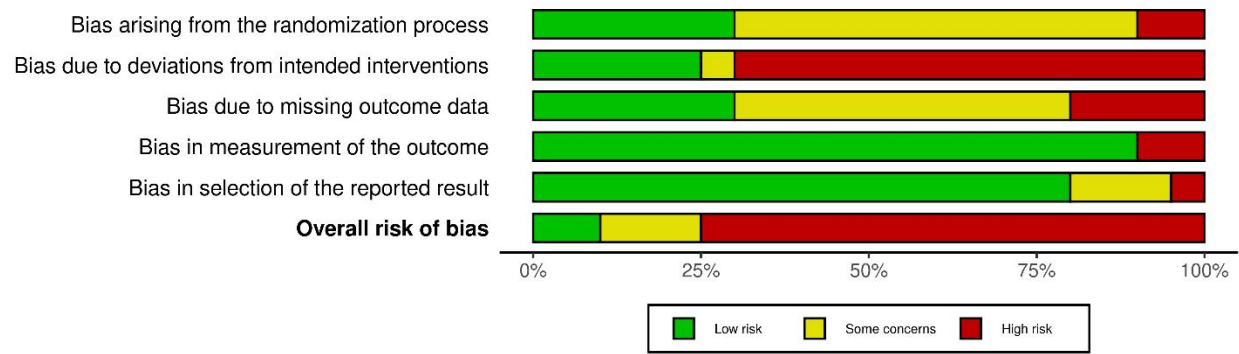
Supplementary Figure 2 Forest comparing late pericardial effusion between post-pericardiotomy after CABG and no PP.



Supplementary Figure 3 Forest comparing pleural effusion between post-pericardiotomy after CABG and no PP.



Supplementary Figure 4 Forest comparing bleeding between post-pericardiotomy after CABG and no PP.



Supplementary Figure 5 Summary plot of quality assessment.

	Risk of bias domains					
	D1	D2	D3	D4	D5	Overall
Ahmad et al 2010						
Amr et al 2012						
Asimakopoulos et al 1997						
Ehlali et al 2024						
El Wahab et al 2022						
Eikhouly et al 2022						
Ekim et al 2006						
Ezelsoy et al 2019						
Farsak et al 2002						
Fawzy et al 2015						
Haddadzadeh et al 2015						
Kaya et al 2014						
Kaya et al 2015						
Kaya et al 2016						
Kaygin et al 2011						
Kongmalai et al 2014						
Kuralay et al 1999						
Rathnayake et al 2024						
Sadeghpour et al 2011						
Zhao et al 2014						

Domains:
 D1: Bias arising from the randomization process.
 D2: Bias due to deviations from intended intervention.
 D3: Bias due to missing outcome data.
 D4: Bias in measurement of the outcome.
 D5: Bias in selection of the reported result.

Judgement
 High
 Some concerns
 Low

Supplementary Figure 6 Traffic plot of quality assessment.

Supplementary Table 1 Study Characteristics of included studies

Author-year	Study design	Country	Mean Age	Column 1	Male (%)		Diabetes (%)		Hypertension (%)	
			PP	Control	PP	Control	PP	Control	PP	Control
Ahmad et al 2010	RCT	Pakistan	54.3±8.4	54.3±8.8	36	34	NA	NA	NA	NA
Amr et al 2012	RCT	Egypt	62.3 ± 4.5	63.2 ± 3.5	63	59.37	40.62	43.75	56.25	53.12
Asimakopoulos et al 1997	RCT	United Kingdom	61	61	NA	NA	10	5	10	19
Ekim et al 2006	RCT	Turkey	59.1±8.9	60.1±3.2	33	32	20	22	52	48
Elhelali et al 2024	RCT	Egypt	61.07±10.4	61.4±11.6	N/A	N/A	40.9	30.9	54.5	43.6
Elkhouly et al 2022	RCT	Egypt	56.3 ± 6.8	52.6 ± 5.9	96.6	90	56.6	56.6	48.33	66.6
El Wahab et al 2022	RCT	Egypt	58.34 ± 8.73	53.80 ± 8.56	66	80	50	36	60	42
Ezelsoy et al 2019	RCT	Turkey	67.51±7.35	66.84±6.92	64.5	61.8	40.9	47.2	60.9	57.2
Farsak et al 2002	RCT	Turkey	64.2 ±8.9	62.8 ±5.4	36	32	17.3	14.66	41.33	36
Fawzy et al 2015	RCT	Egypt	54.3 ± 8.6	56 ± 9.7	36	32	48	46	56	54
Haddadzadeh et al 2015	RCT	Iran	61/07±10/4	61/4±11/6	NA	NA	40	30	54	43
Kaya et al 2014	RCT	Turkey	56.9 ± 10.13	58.91 ± 10.90	76.67	87.88	53.33	36.36	50	54.55
Kaya et al 2015	RCT	Turkey	57.85 ± 9.35	55.86 ± 9.32	85.71	80.56	55.71	56.94	44.29	40.28
Kaya et al 2016	RCT	Turkey	58.39 9.24	57.46± 9.13	77.67	78.5	46.6	52.83	47.06	38.32
Kaygin et al 2011	RCT	Turkey	58.8±11.3	59.0±11.3	50.2	49.5	54.9	55.6	35.2	37.7
Kongmalai et al 2014	RCT	Thailand	NA	NA	NA	NA	NA	NA	NA	NA
Kuralay et al 1999	RCT	Turkey	57±12	61±8	77	73	NA	NA	NA	NA
Rathnayake et al 2024	RCT	Australia	65.93±10	66.16±10	81.4	82.5	29.2	30.84	77.7	79.44
Sadeghpour et al2011	RCT	Iran	60.68±8.49	60.3±12.6	77.5	80	65	37.5	NA	NA
Zhao et al 2014	RCT	China	54±16	56±18	60.5	54.3	43	47.4	40.8	38.7