Supplementary Online Content

Bainey KR, Engstrom T, Smits PC, et al. Complete vs culprit-lesion-only revascularization for ST-segment elevation myocardial infarction: a systematic review and meta-analysis. *JAMA Cardiol*. Published online May 20, 2020. doi:10.1001/jamacardio.2020.1251

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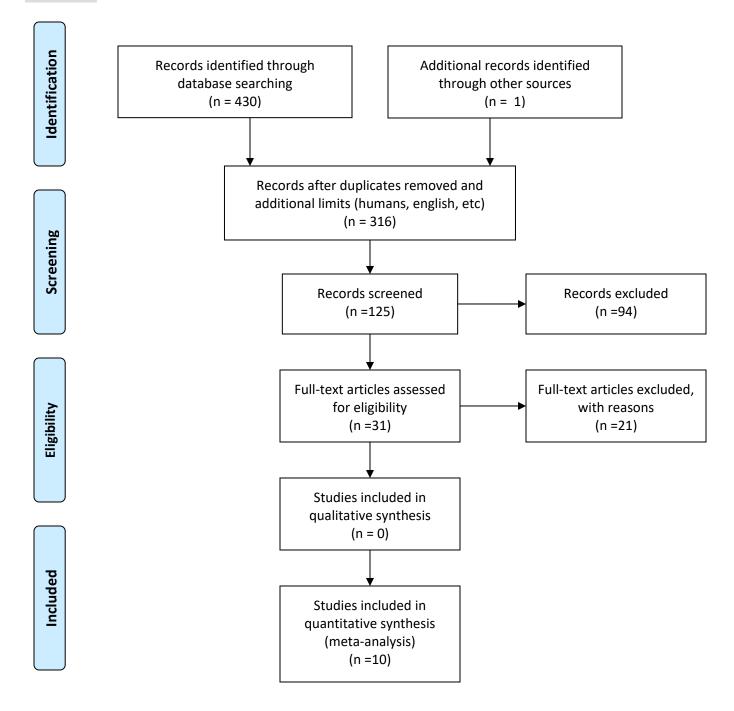
This supplementary material has been provided by the authors to give readers additional information about their work.

eTable. Search Strategy Used for MEDLINE

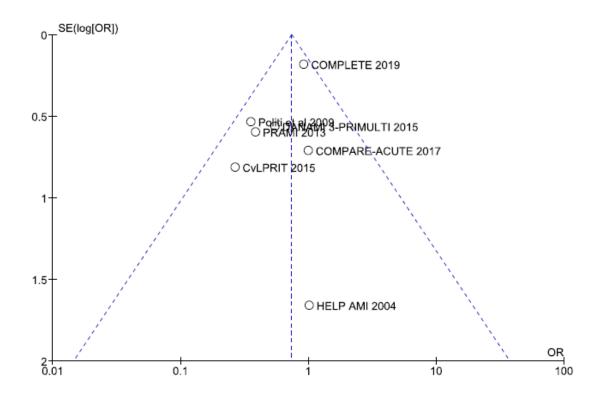
| Database | Search Strategy |
|----------|---|
| 1. | st elevation myocardial infarction.mp. |
| 2. | st-elevation myocardial infarction.mp. |
| 3. | ST segment elevation myocardial infarction.mp. |
| 4. | ST-segment elevation myocardial infarction.mp. |
| 5. | Myocardial Infarction/ |
| 6. | 1 or 2 or 3 or 4 or 5 |
| 7. | complete revascularization.mp. |
| 8. | complete revascularisation.mp. |
| 9. | multi-vessel revascularization.mp. |
| 10. | multi-vessel revascularisation.mp. |
| 11. | multi vessel revascularization.mp. |
| 12. | multi vessel revascularisation.mp. |
| 13. | multivessel revascularization.mp. |
| 14. | multivessel revascularisation.mp. |
| 15. | non culprit coronary artery.mp. |
| 16. | non-culprit coronary artery.mp. |
| 17. | nonculprit coronary artery.mp. |
| 18. | 7 or 8 or 9 or 10 or 11 or 12 or 13 or 14 or 15 or 16 or 17 |
| 19. | 6 and 18 |
| | |



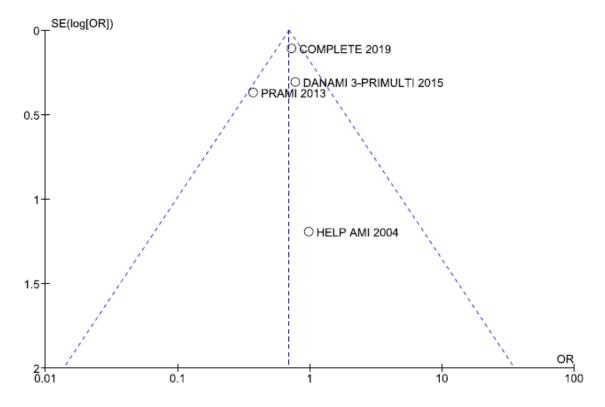
eFigure 1. PRISMA 2009 Flow Diagram



eFigure 2. Funnel Plot for CV Death



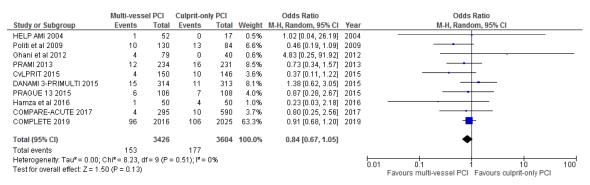
A scatter plot of the intervention effect estimates on the horizontal scale and the measure of study size on the vertical scale show a plot resembling a symmetrical (inverted) funnel indicating the absence of publication bias (Egger plot).



eFigure 3. Funnel Plot for CV Death or New Myocardial Infarction

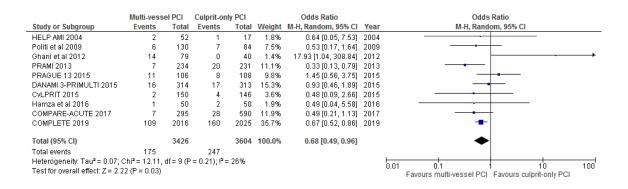
A scatter plot of the intervention effect estimates on the horizontal scale and the measure of study size on the vertical scale show a plot resembling a symmetrical (inverted) funnel indicating the absence of publication bias (Egger plot).

eFigure 4. Forest Plot of Long-term All-Cause Mortality With Multivessel or Culprit-Lesion-Only Percutaneous Coronary Intervention



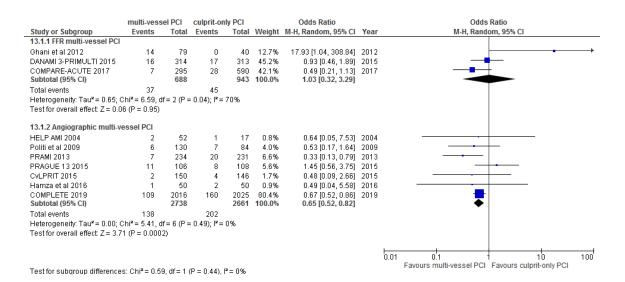
Squares and diamonds=odds ratios. Lines=95% confidence intervals.

eFigure 5. Forest Plot of Long-term Recurrent Myocardial Infarction With Multivessel or Culprit-Lesion-Only Percutaneous Coronary Intervention



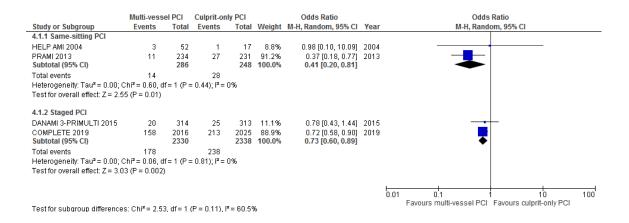
Squares and diamonds=odds ratios. Lines=95% confidence intervals.

eFigure 6. Forest Plot of Long-term Recurrent Myocardial Infarction With Multivessel or Culprit-Lesion-Only Percutaneous Coronary Intervention Stratified by Multivessel Strategy



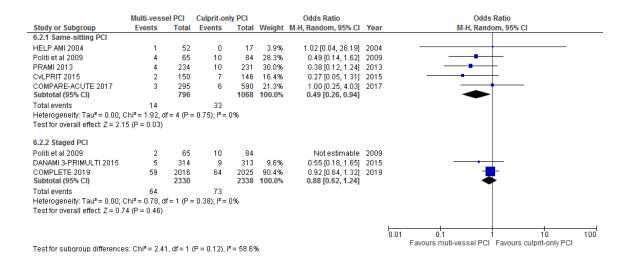
Squares and diamonds=odds ratios. Lines=95% confidence intervals.

eFigure 7. Forest Plot of Long-term Cardiovascular Death or New Myocardial Infarction Stratified by Timing of Nonculprit Percutaneous Coronary Intervention



Squares and diamonds=odds ratios. Lines=95% confidence intervals.

eFigure 8. Forest Plot of Long-term Cardiovascular Death Stratified by Timing of Nonculprit Percutaneous Coronary Intervention



Squares and diamonds=odds ratios. Lines=95% confidence intervals.

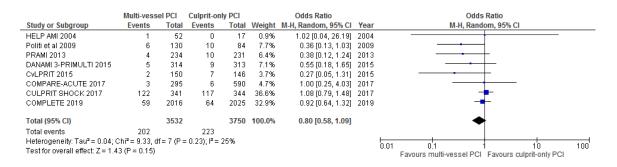
eFigure 9. Forest Plot of Long-term Myocardial Infarction Stratified by Timing of Nonculprit Percutaneous Coronary Intervention

| | Multi-vess | el PCI | Culprit-only PCI Odds Ratio | | Odds Ratio | | Odds Ratio | |
|--|-----------------|-------------------|----------------------------------|------------------|-----------------|--|------------|---|
| Study or Subgroup | Events | Total | Events | Total | Weight | M-H, Random, 95% CI | Year | M-H, Random, 95% Cl |
| 8.1.1 Same-sitting PCI | | | | | | | | |
| HELP AMI 2004 | 2 | 52 | 1 | 17 | 4.6% | 0.64 [0.05, 7.53] | 2004 | • |
| Politi et al 2009 | 2 | 65 | 7 | 84 | 10.8% | 0.35 [0.07, 1.74] | 2009 | |
| PRAMI 2013 | 7 | 234 | 20 | 231 | 35.8% | 0.33 [0.13, 0.79] | 2013 | _ |
| CvLPRIT 2015 | 2 | 150 | 4 | 416 | 9.5% | 1.39 [0.25, 7.68] | 2015 | |
| COMPARE-ACUTE 2017 Subtotal (95% CI) | 7 | 295 796 | 28 | 590 1338 | 39.3% 100.0% | 0.49 [0.21, 1.13] 0.46 [0.27, 0.77] | 2017 | • |
| Total events | 20 | | 60 | | | | | |
| Test for overall effect: Z = 2. 8.1.2 Staged PCI | | , , | | | | | | |
| Politi et al 2009 | 4 | 65 | 7 | 84 | 12.3% | 0.72 [0.20, 2.58] | 2000 | |
| Ghani et al 2003 | 14 | 79 | Ó | 40 | 3.1% | 17.93 [1.04, 308.84] | | |
| PRAGUE 13 2015 | 11 | 106 | 8 | 108 | 18.1% | 1.45 [0.56, 3.75] | | |
| DANAMI 3-PRIMULTI 2015 | 16 | 314 | 17 | 313 | 25.1% | 0.93 [0.46, 1.89] | | |
| COMPLETE 2019 Subtotal (95% CI) | 109 | 2016 2580 | 160 | 2025 | 41.3% 100.0% | 0.67 [0.52, 0.86] 0.93 [0.55, 1.58] | | * |
| Total events | 154 | | 192 | | | | | |
| Heterogeneity: Tau ² = 0.16; Test for overall effect: Z = 0. | | lf = 4 (P = | = 0.09); I ² = | 50% | | | | |
| | | | | | | | | |
| | | | | | | | | |
| Test for subgroup difference | no: Chi≅ – 2 6: | 1 df - 1 | (P = 0.06) | Z = 70.00 | ĸ. | | | Favours multi-vessel PCI Favours culprit-only PCI |

Test for subgroup differences: $Chi^2 = 3.61$, df = 1 (P = 0.06), $i^2 = 72.3\%$

Squares and diamonds=odds ratios. Lines=95% confidence intervals.

eFigure 10. Forest Plot of Cardiovascular Death in Patients With Multivessel or Culprit-Lesion-Only Percutaneous Coronary Intervention Including the CULPRIT SHOCK Trial



Squares and diamonds=odds ratios. Lines=95% confidence intervals