

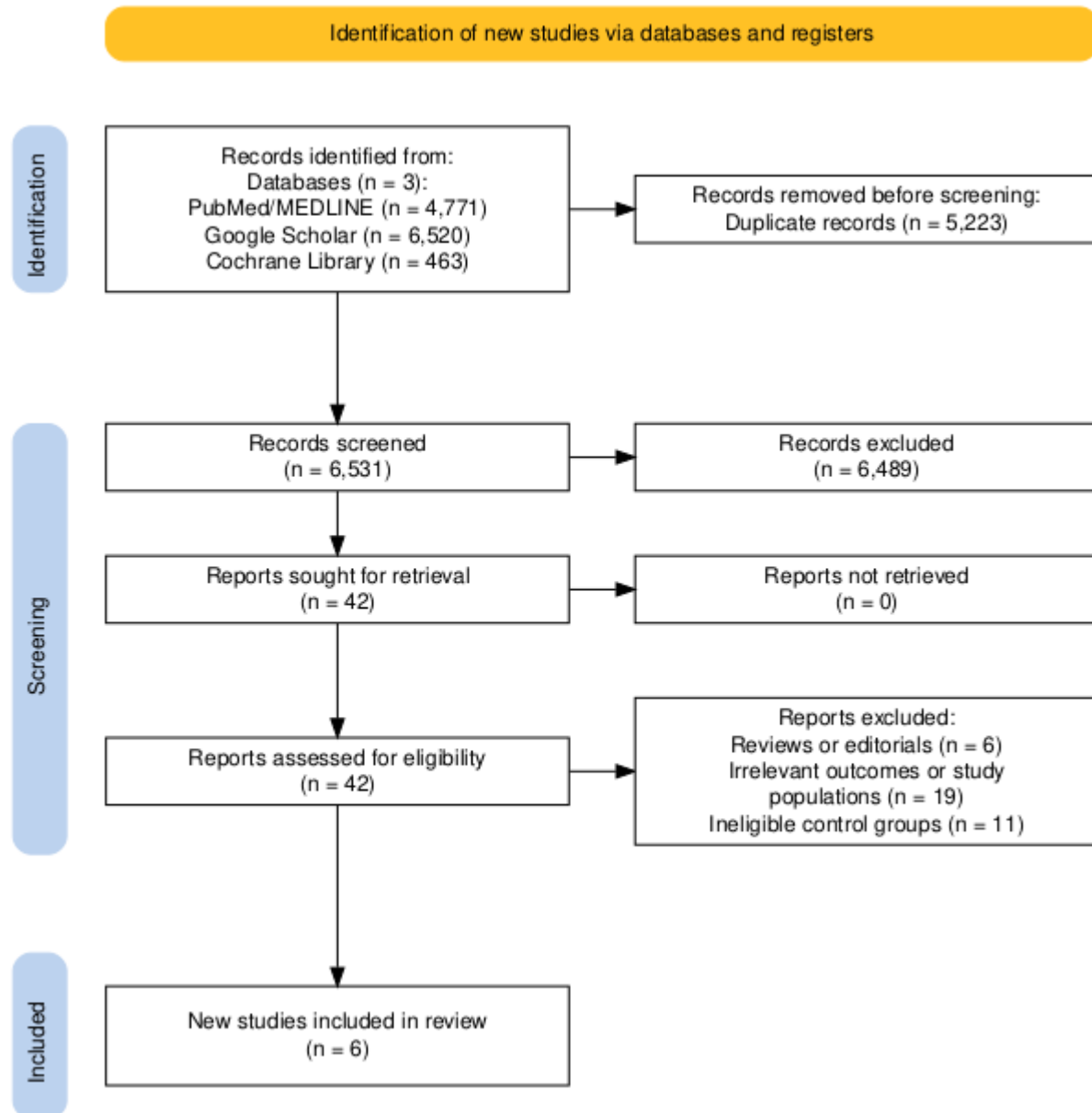
Supplementary Table SI. Search strategy

Database	Search string	Records
PubMed/MEDLINE	<p>(Coronary Artery Disease[MeSH] OR acute coronary syndrome[MeSH] OR myocardial infarction[MeSH] OR coronary artery disease[tiab] OR acute coronary syndrome*[tiab] OR myocardial infarction[tiab] OR ACS[tiab] OR PCI[tiab] OR percutaneous coronary intervention[tiab] OR coronary angioplasty[tiab])</p> <p>AND</p> <p>(dual antiplatelet therapy[tiab] OR DAPT[tiab] OR aspirin[tiab] OR aspirin discontinuation[tiab] OR aspirin withdrawal[tiab] OR aspirin stop*[tiab] OR P2Y12 monotherapy[tiab] OR ticagrelor monotherapy[tiab] OR clopidogrel monotherapy[tiab] OR prasugrel monotherapy[tiab] OR shortened DAPT[tiab] OR short DAPT[tiab] OR DAPT cessation[tiab] OR P2Y12 inhibitor monotherapy[tiab])</p> <p>AND</p> <p>(randomized[tiab] OR randomised[tiab] OR trial[tiab])</p>	4,771
Google Scholar	<p>("aspirin discontinuation" OR "aspirin withdrawal" OR "P2Y12 monotherapy" OR "ticagrelor monotherapy" OR "clopidogrel monotherapy" OR "prasugrel monotherapy") AND (PCI OR "percutaneous coronary intervention" OR "coronary angioplasty") AND ("acute coronary syndrome" OR ACS OR STEMI OR NSTEMI OR "myocardial infarction" OR "coronary artery disease")</p>	6,520
Cochrane Library	<p>aspirin discontinuation OR aspirin withdrawal OR P2Y12 monotherapy OR ticagrelor monotherapy OR clopidogrel monotherapy OR prasugrel monotherapy in Title Abstract Keyword AND percutaneous coronary intervention OR PCI OR coronary angioplasty in Title Abstract Keyword AND acute coronary syndrome OR ACS OR STEMI OR NSTEMI OR myocardial infarction OR coronary artery disease in Title Abstract Keyword</p>	463

Supplementary Table SII. Definitions of MACCE (Major Adverse Cardiovascular and Cerebrovascular Events) across the included studies

Study	Year	MACCE definition
TICO	2020	the composite of death, MI, stent thrombosis, stroke, or target-vessel revascularization
STOPDAPT-2	2022	the composite of cardiovascular death, myocardial infarction, definite stent thrombosis, or ischemic/hemorrhagic stroke
T-PASS	2024	the composite of death, myocardial infarction, stent thrombosis, or stroke
ULTIMATE-DAPT	2024	the composite of cardiac death, myocardial infarction, ischemic stroke, definite stent thrombosis, and clinically driven target vessel revascularization.
NEO-MINDSET	2025	the composite of death from any cause, myocardial infarction, stroke, or urgent target-vessel revascularization
TARGET-FIRST	2025	the composite of death from any cause, myocardial infarction, stent thrombosis, stroke, or major bleeding (BARC as a bleeding event of type 3 or 5).

Supplementary Figure S1. PRISMA Flow Diagram



Supplementary Figure S2. Traffic light plot RoB 2 tool for risk of bias assessment

		Risk of bias domains					
		D1	D2	D3	D4	D5	Overall
Study	TICO						
	STOPDAPT-2						
	T-PASS						
	ULTIMATE-DAPT						
	NEO-MINDSET						
	TARGET-FIRST						

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.

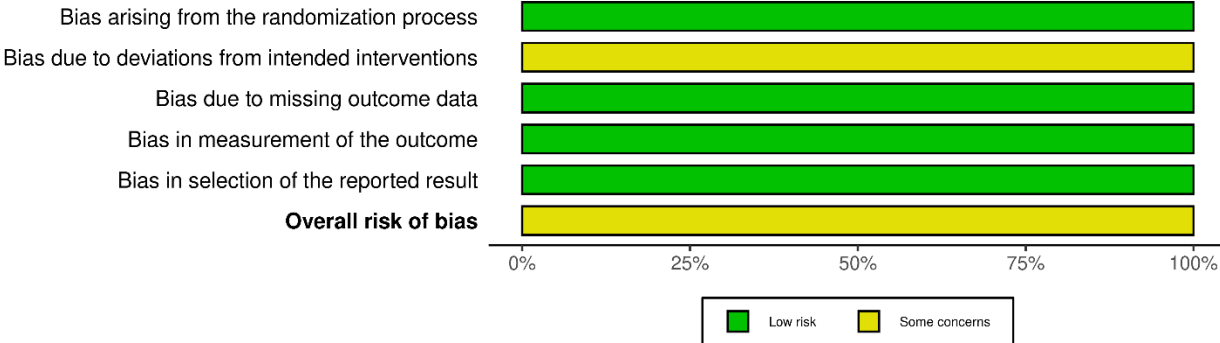
D5: Bias in selection of the reported result.

Judgement

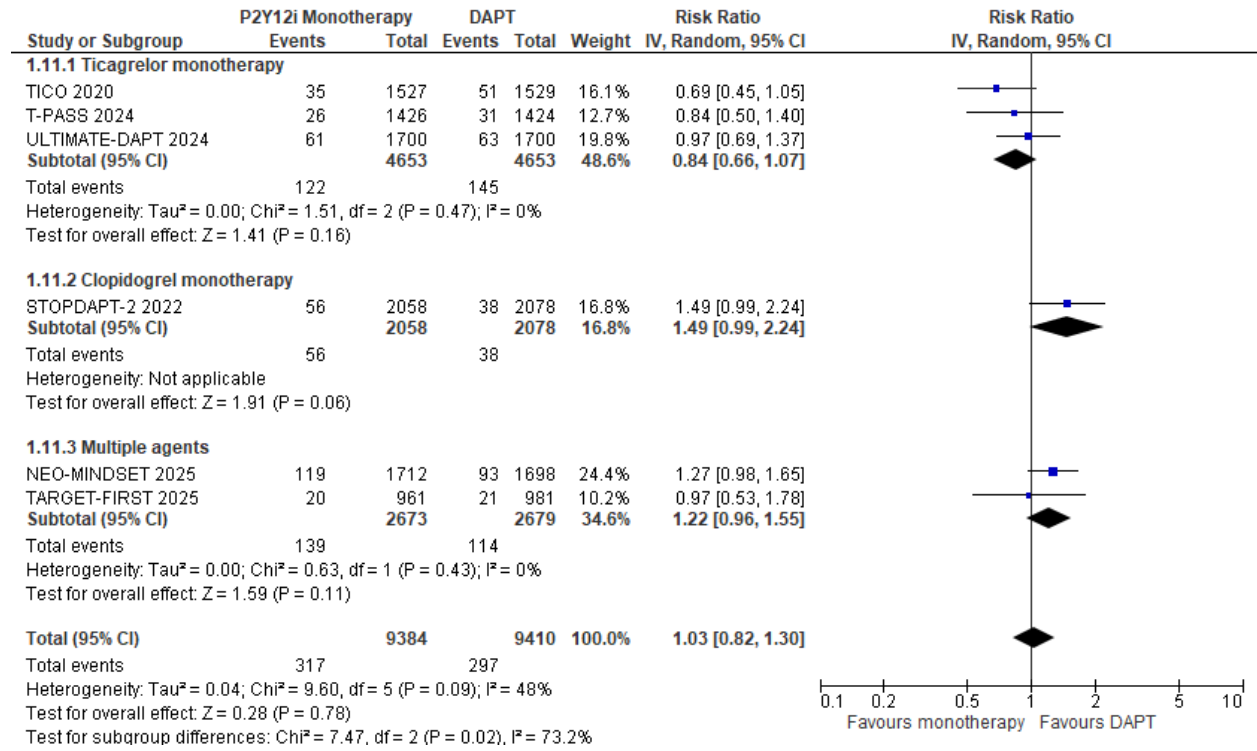
Some concerns

Low

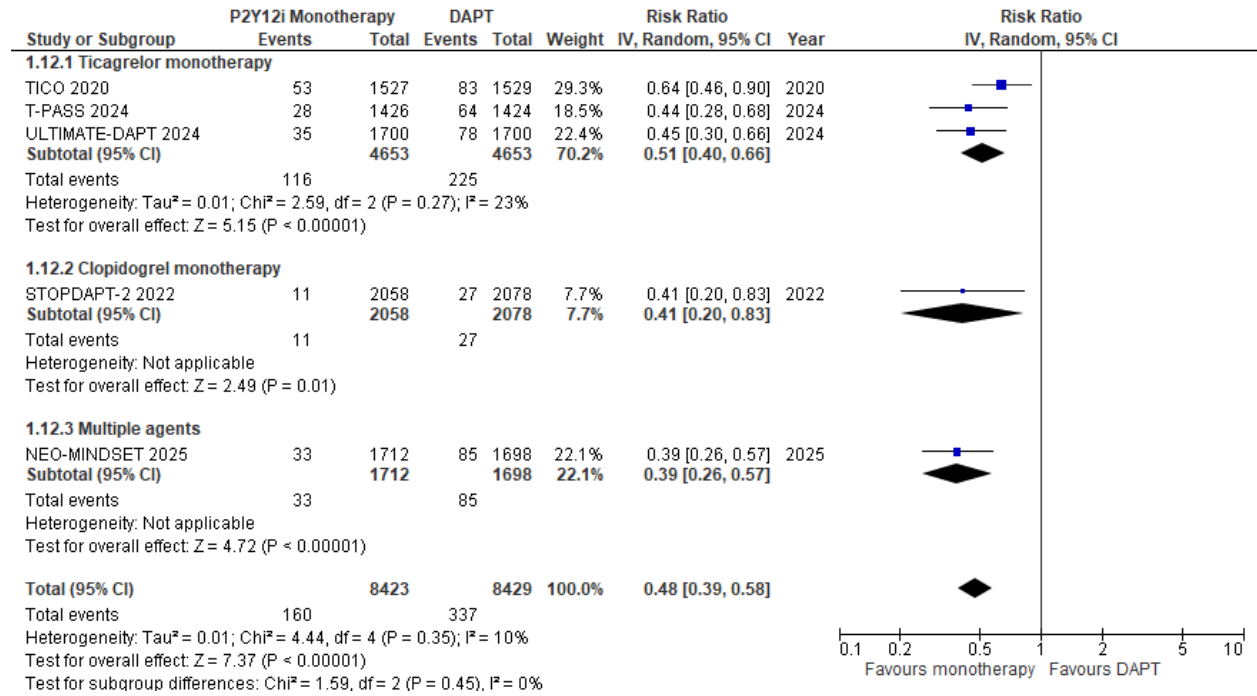
Supplementary Figure S3. Summary plot RoB 2 tool for risk of bias assessment



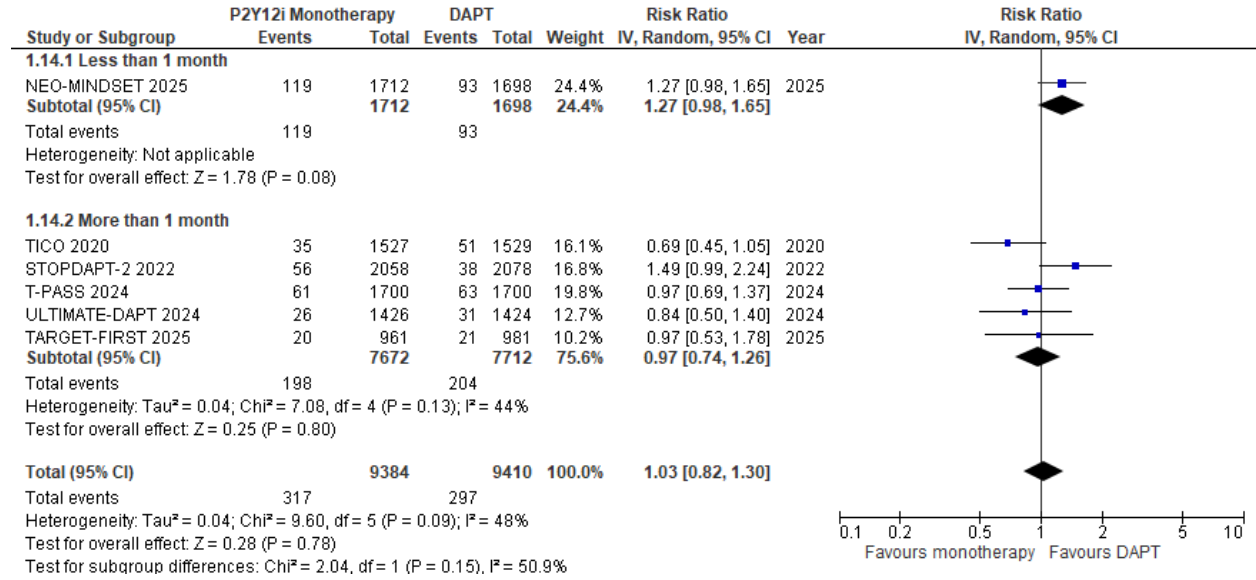
Supplementary Figure S4. Subgroup-analysis based on agent type for the outcome of MACCE



Supplementary Figure S5. Subgroup-analysis based on agent type for the outcome of clinically relevant bleeding



Supplementary Figure S6. Subgroup-analysis based on aspirin withdrawal timing for the outcome of MACCE



Supplementary Figure S7. Subgroup-analysis based on aspirin withdrawal timing for the outcome of clinically relevant bleeding

