

13

Congrès national

de médecine vasculaire



SAMEV

Avancées thérapeutiques dans les maladies vasculaires

06 et 07 juin 2024

Hôtel Mercure, Alger

Thèmes :

- La pathologie des artères périphériques :

- L'artériopathie oblitérante des membres inférieurs (AOMI)
- Les accidents vasculaires cérébraux (AVC)
- L'aorte abdominale et ses branches

- Diabète type 2 : Nouveautés thérapeutiques et protection cardiovasculaire.

- Actualités dans la prise en charge de l'hypertension artérielle (HTA)

- Traitement de la maladie thromboembolique veineuse (MTEV) : Comment et combien de temps ?

- Nouveaux anticoagulants : Quoi de neuf en Algérie ?

- Insuffisance veineuse chronique :

- Modalités de prise en charge en 2024.

- Nouvelles connaissances en lymphologie et prise en charge du lymphœdème

- Plaies chroniques d'origine vasculaire.



Abstracts, Information et Inscription

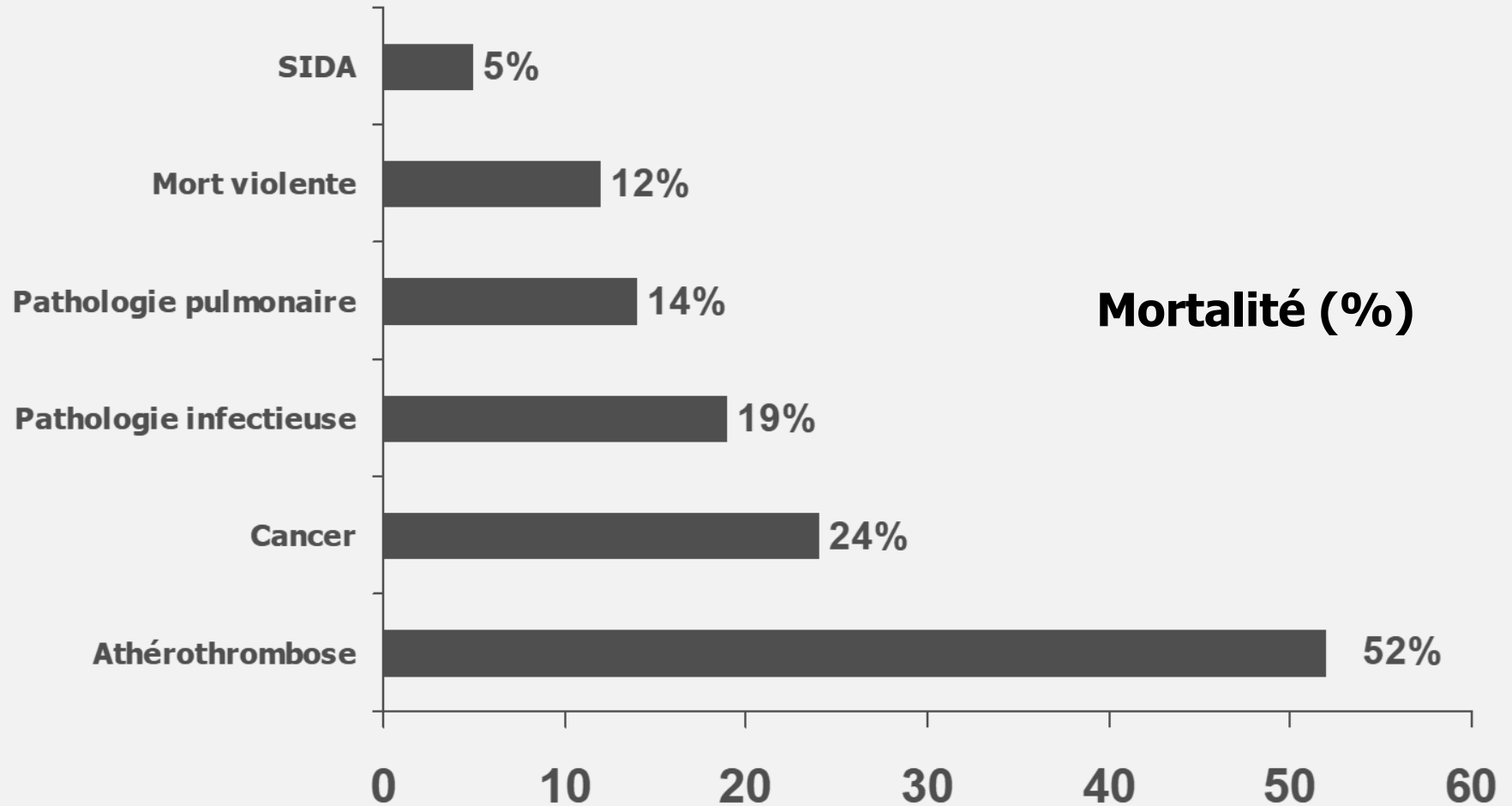
SAMEV-2024

Place des antithrombotiques dans le traitement de l'AOMI

M. BABA AHMED
Libéral-Alger

Ateliers/ Masterclass

L'ATHEROTHROMBOSE* EST UNE CAUSE MAJEURE DE DECES DANS LE MONDE^{1*}

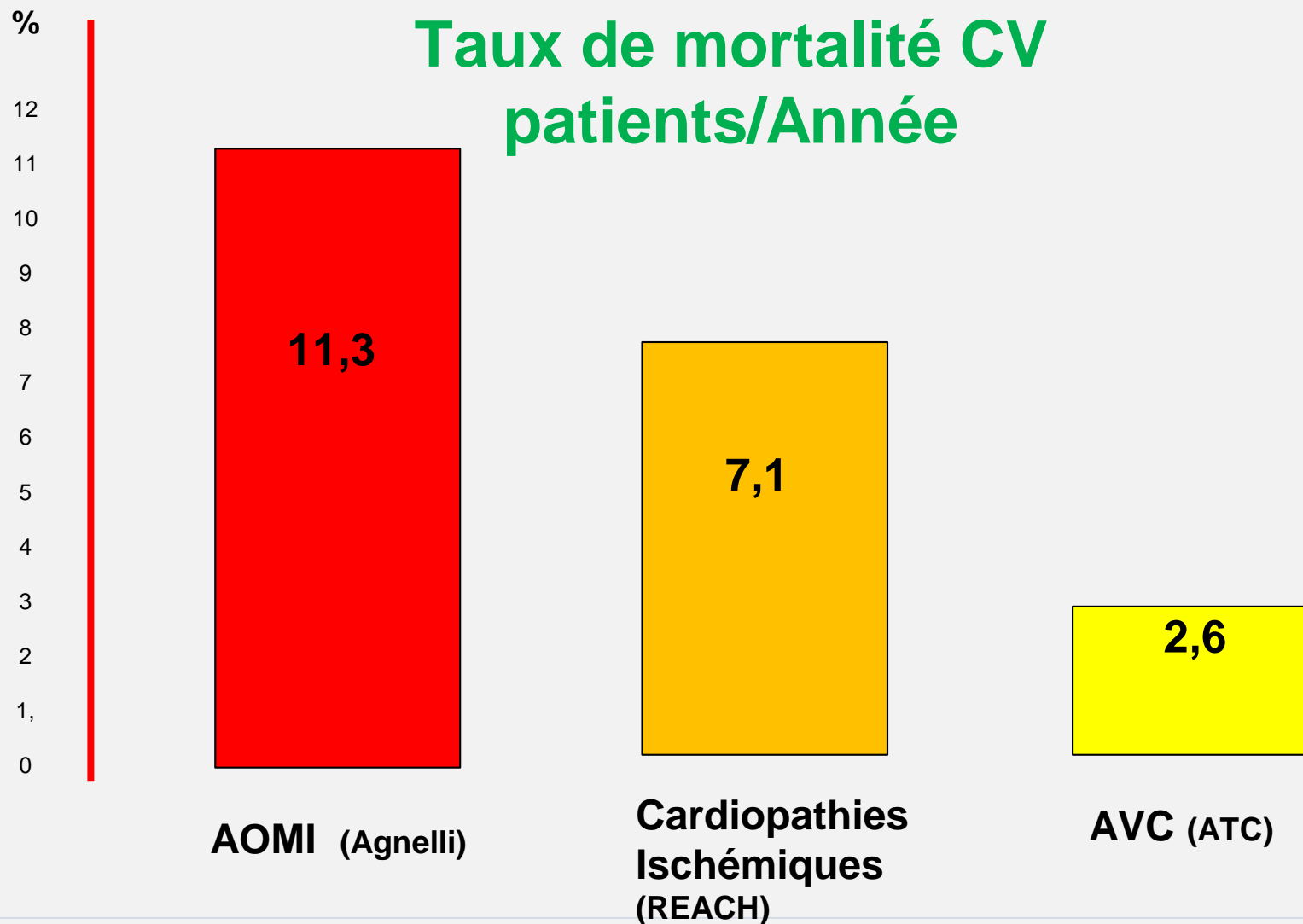


1. The World Health Report, 2000, WHO Geneva, 2000.

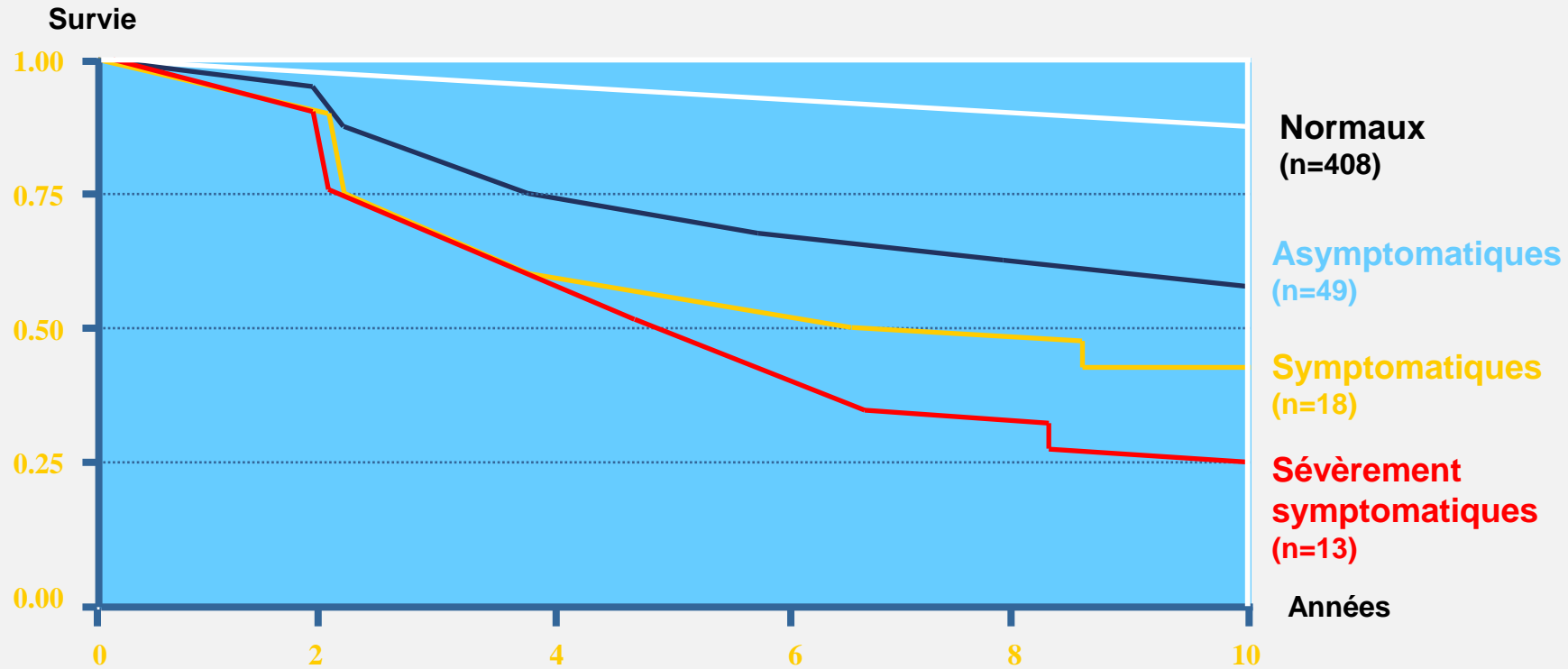
* Pathologie cardiovasculaire, cardiopathie ischémique et pathologie vasculaire cérébrale.

* états membres de l'OMS (Afrique, Amériques, Bassin Méditerranéen, Europe, Sud-Est Asiatique et Pacifique Ouest)

Risque de mortalité et AOMI



Sévérité de l'AOMI et mortalité



Courbe de survie (Kaplan Meyer) basée sur la mortalité toute cause chez des sujets normaux et des sujets présentant une AOMI symptomatique ou non

Apport des AAP dans les AOMI

Athérombose et APTC *

Br Med J 1994; 308: 81-106.

- APTC * (Antiplatelet Trialist's Collaboration 1994) :
 - Méta-analyse de 142 essais
 - Plus de 73 000 patients à haut risque :
 - IDM,
 - IDM en phase aiguë,
 - AVC,
 - AIT,
 - Autres conditions à risque vasculaire ischémique : angor instable ou stable, post-chirurgie et angioplastie, pathologies artérielles périphériques

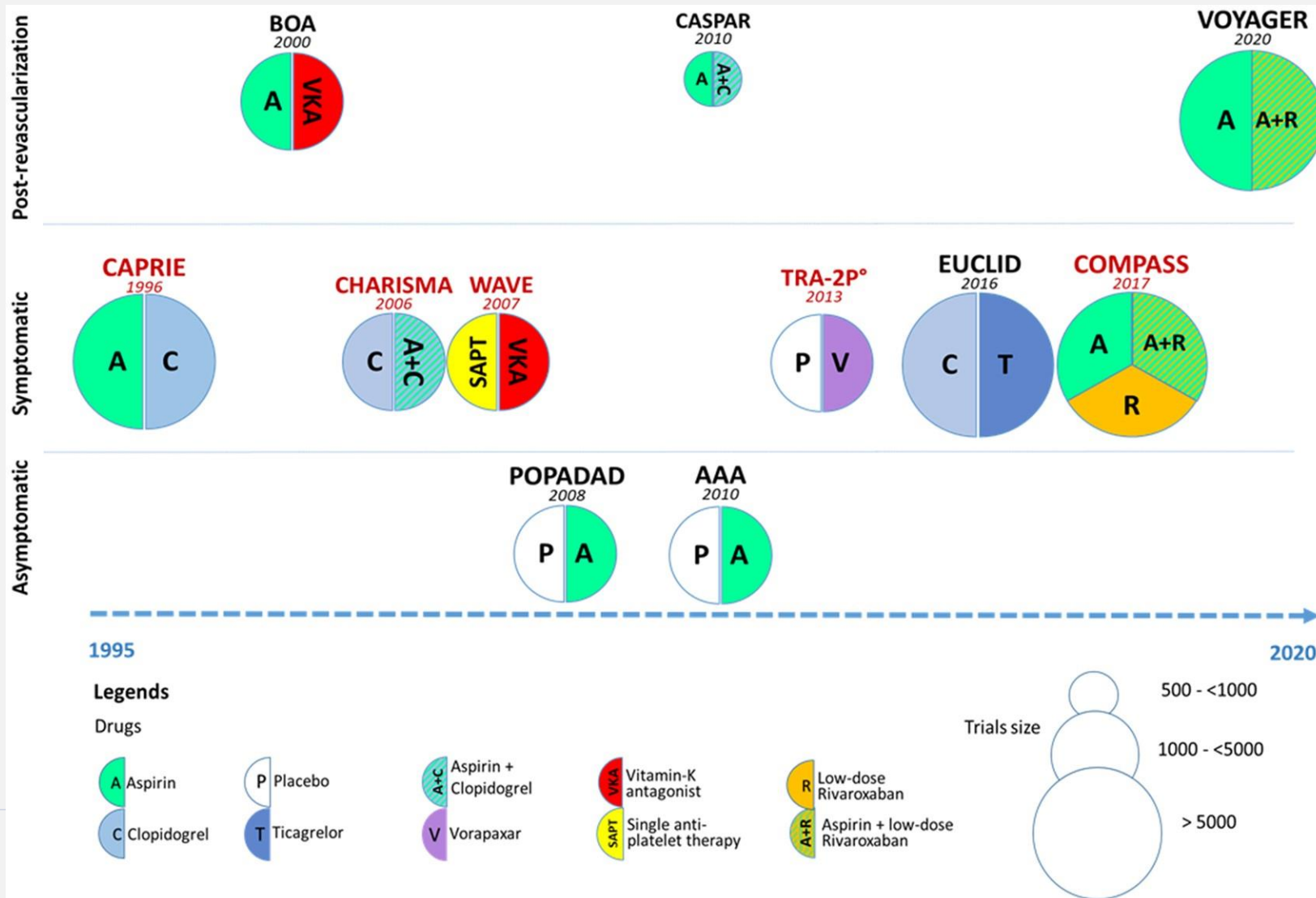


Apport des AAP dans les AOMI

- **Résultats :**

- Les **AAP** en prévention secondaire : ↓ **27 %** des événements ischémiques majeurs versus placebo (critère combiné : IDM, AVC, mort vasculaire)
- **Aspirine** : AAP le plus étudié (46 études, patients à haut risque) : ↓ **25 %** des événements ischémiques majeurs versus placebo
- **Ticlopidine** : ↓ **33 %** des événements ischémiques majeurs versus placebo mais effets iliares ++++

Major trials on antithrombotic therapies in lower-extremities artery disease including >500 patients.



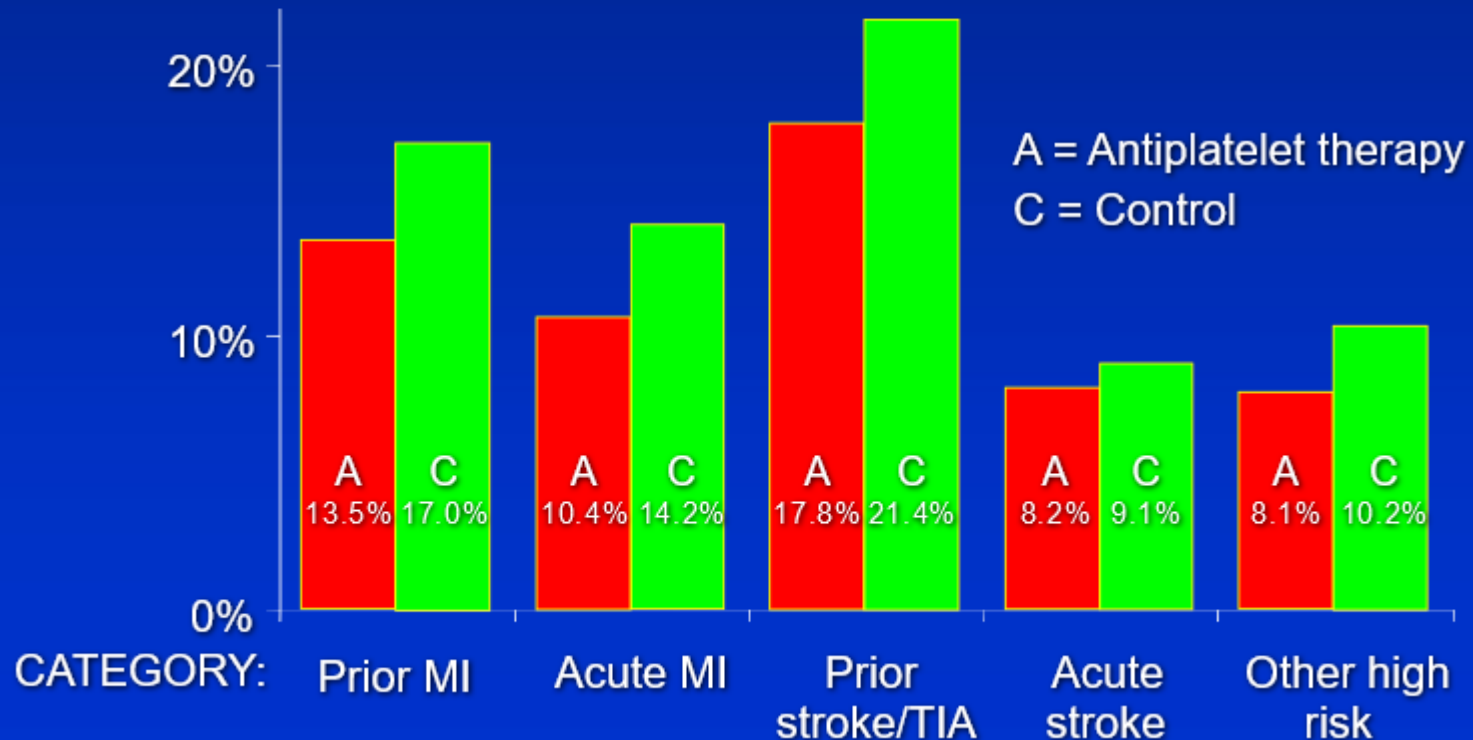
Collaborative meta-analysis of randomised trials of antiplatelet therapy for prevention of death, myocardial infarction, and stroke in high risk patients

Antithrombotic Trialists' Collaboration

(N = 212,000 in 287 trials)

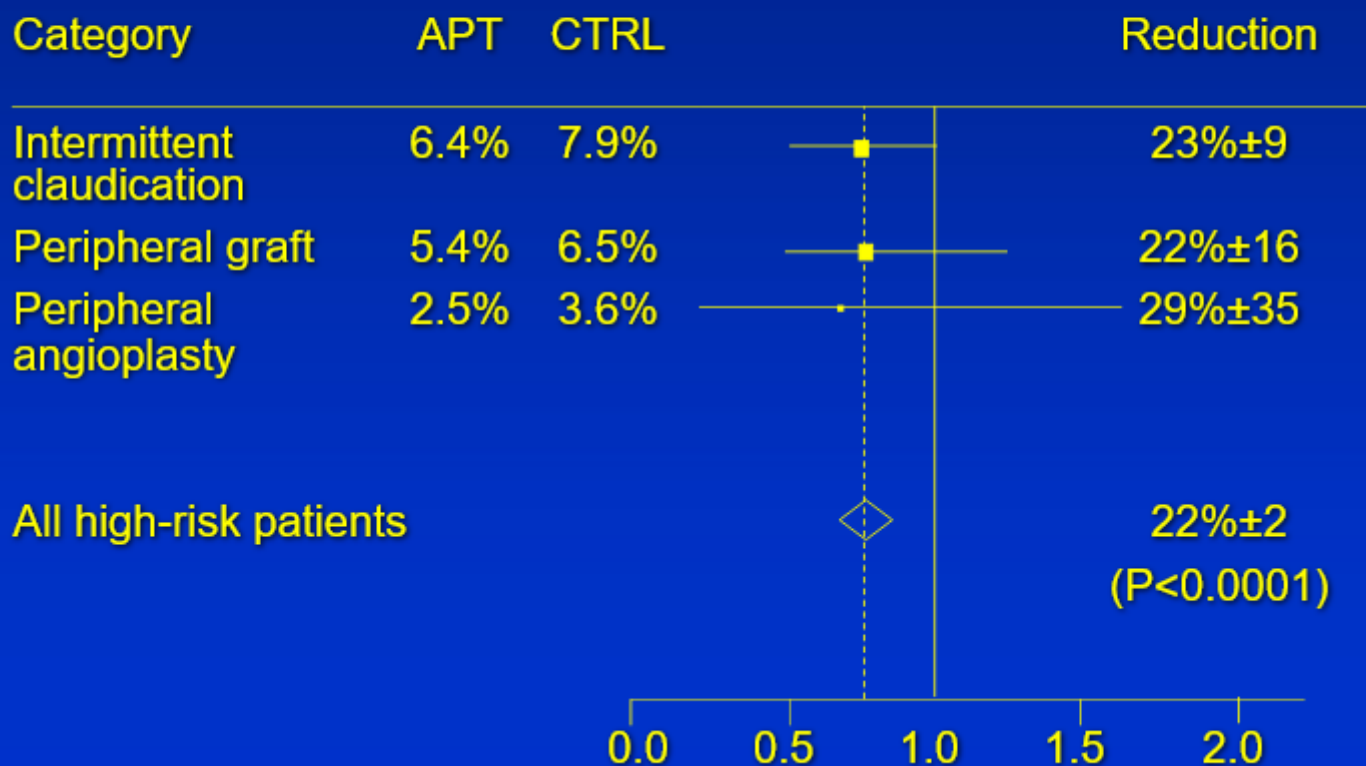
Antithrombotic Trialists' Collaboration: Absolute effects on VASCULAR EVENTS

Benefit per 1000(SE):	36(5)	38(5)	36(6)	9(3)	22(3)
Average duration:	27 m	1m	29 m	0.7 m	22 m
P-value:	<0.0001	<0.0001	<0.0001	0.0009	<0.0001



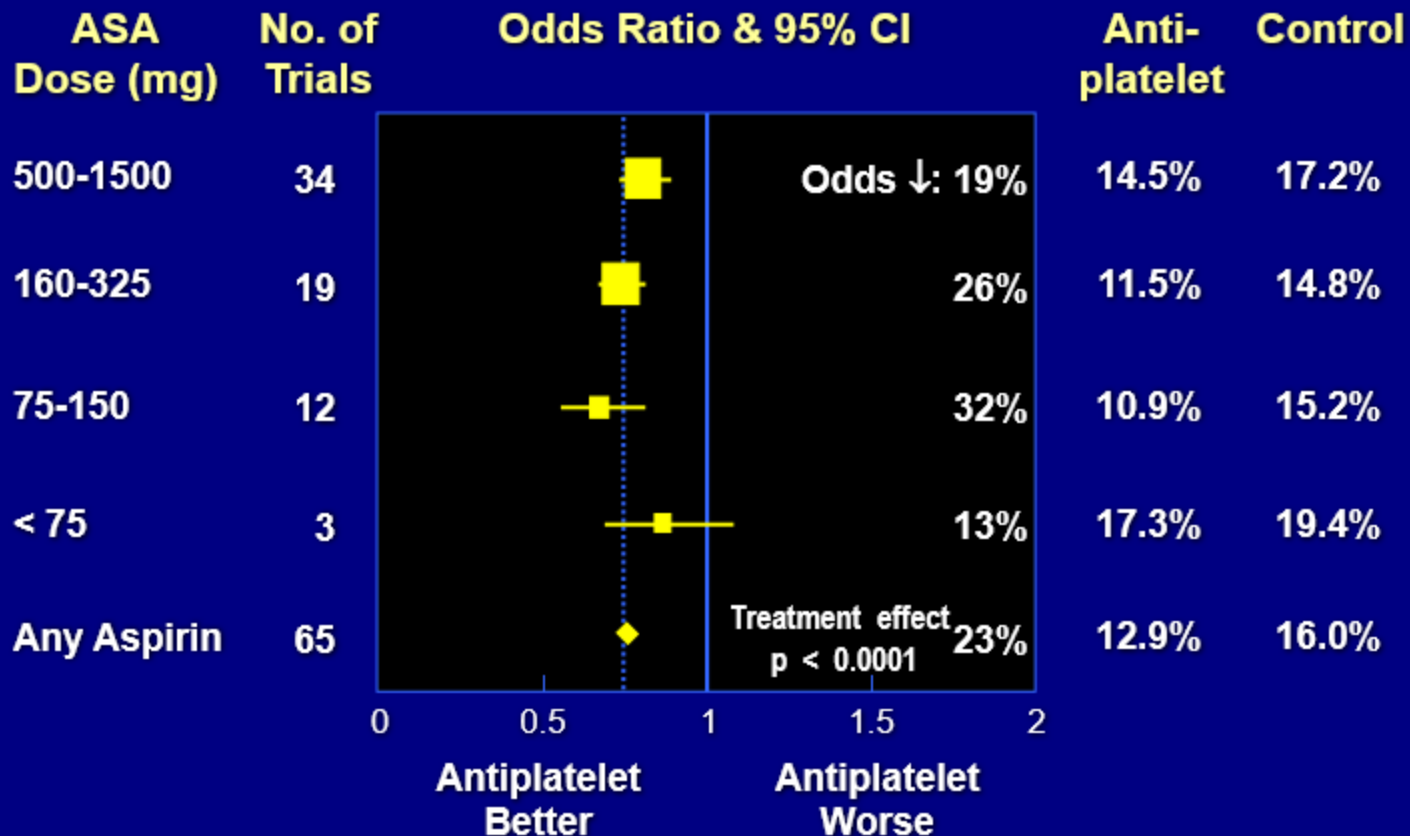
Antithrombotic Trialists' Collaboration

Effects on VASCULAR EVENTS in patients with PERIPHERAL ARTERIAL DISEASE



Antiplatelet Meta-Analysis

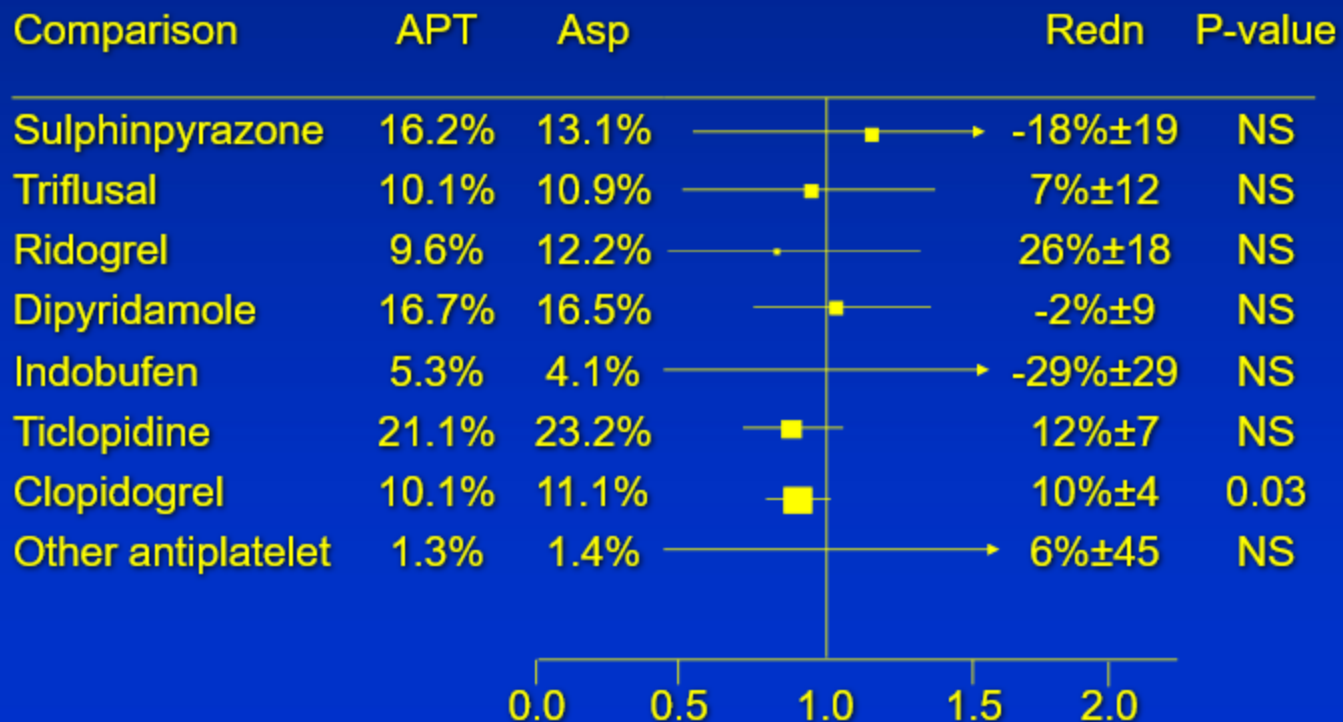
Endpoints: MI, Stroke, Vascular Death



Antithrombotic Trialists Collaboration, BMJ 324:71-86, 2002

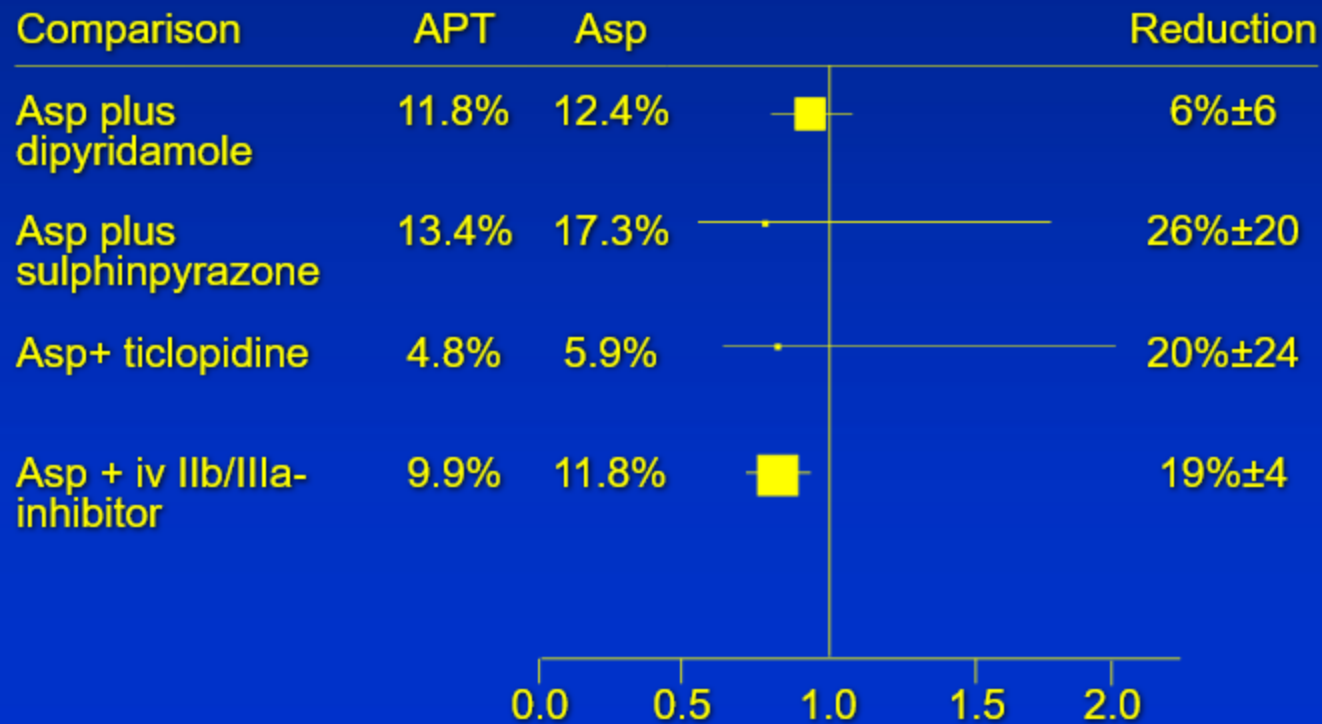
Antithrombotic Trialists' Collaboration

Other antiplatelet drugs vs aspirin



Antithrombotic Trialists' Collaboration

Aspirin plus another antiplatelet vs aspirin



Antithrombotic Trialists' Collaboration Conclusions

- Aspirin (or another antiplatelet drug) prevents serious vascular events in a wide range of high-risk patients, including people with intermittent claudication, stable angina, and—if oral anticoagulants are unsuitable—atrial fibrillation
- Low-dose aspirin (75-150mg daily) is as effective as higher aspirin doses for long-term use
- Clopidogrel is an effective alternative in patients with a contraindication to aspirin
- In some clinical circumstances, adding a second antiplatelet drug (e.g. clopidogrel or a GPIIb/IIIa antagonist) to aspirin may produce additional benefits

Clopidogrel versus Aspirin in Patients at Risk of Ischemic Events



Méthodologie

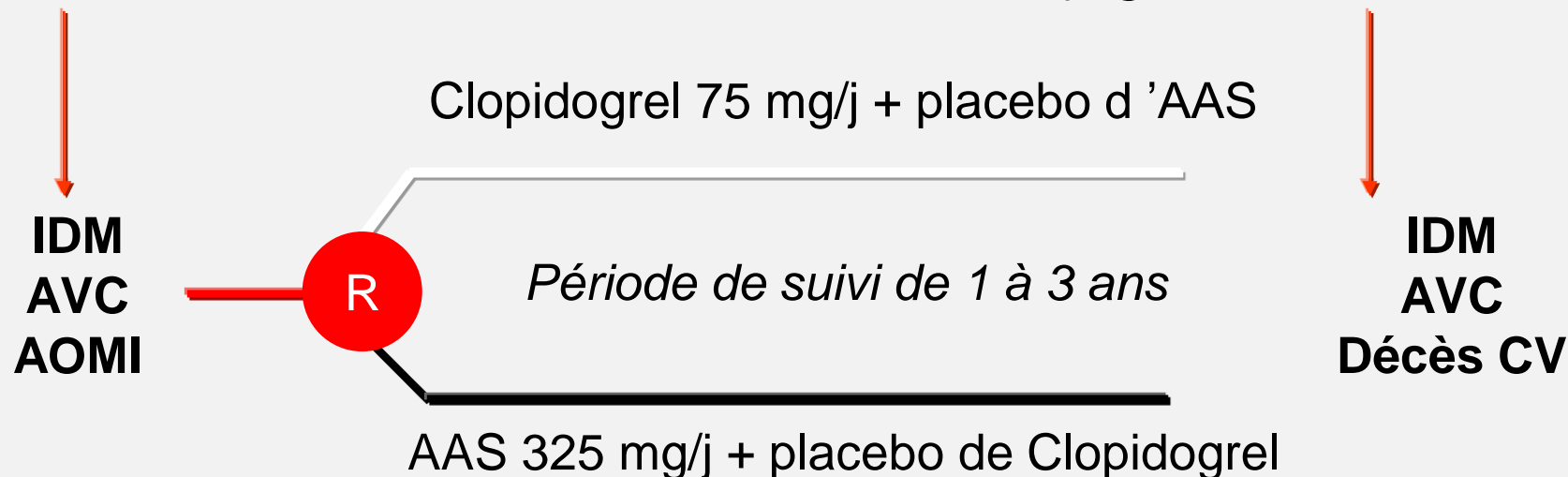
- Étude prospective randomisée en double-aveugle contrôlée comparant *le clopidogrel* à *l'aspirine*.
- **384** centres investigateurs dans 16 pays
- Durée de suivi 1 an minimum, 3 ans maximum

Schéma de l'étude



*Critères
d'inclusion*

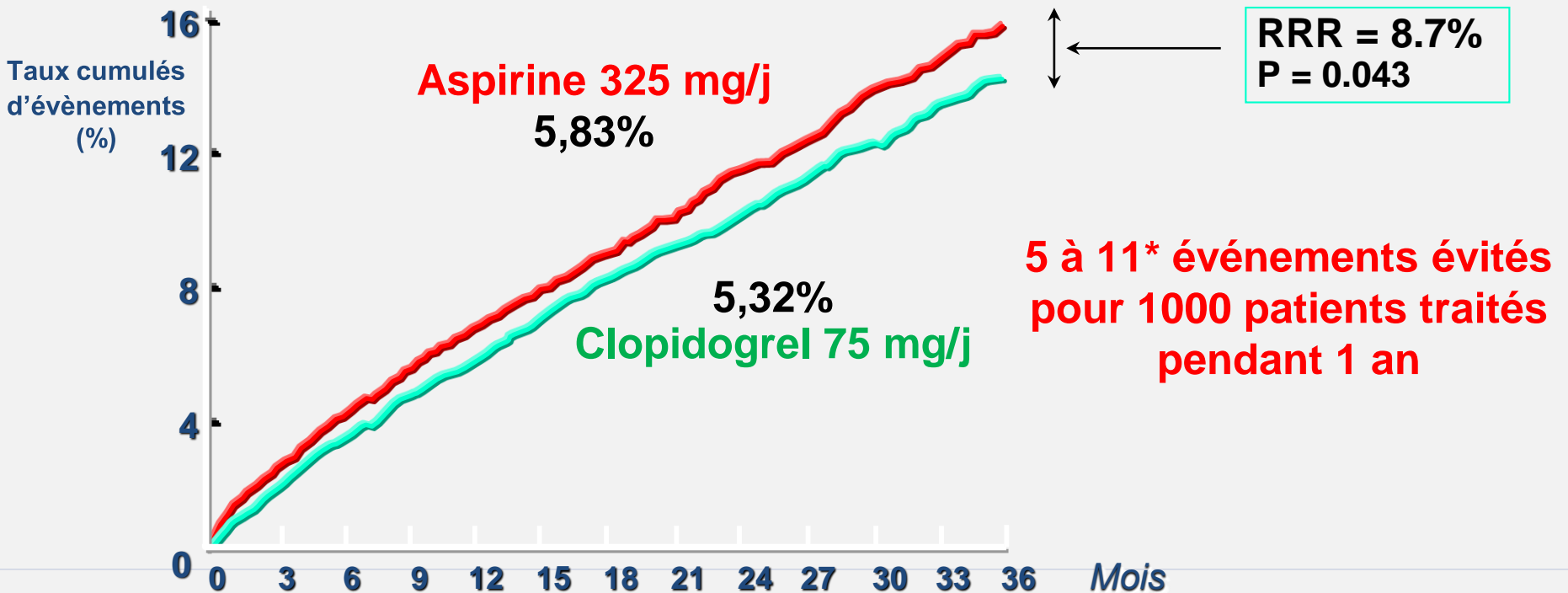
*Critère de
jugement combiné*



N = 19 185

Etude CAPRIE

- n = 19185, IDM < J35 (6302), AVC isch (6431), AOMI \geq II (6452), suivi 1 à 3 ans
- Critère combiné : IDM, AVC, décès vasculaire



*Critère élargi : IDM, AVC, décès vasculaire, hospitalisation pour ischémie ou saignement

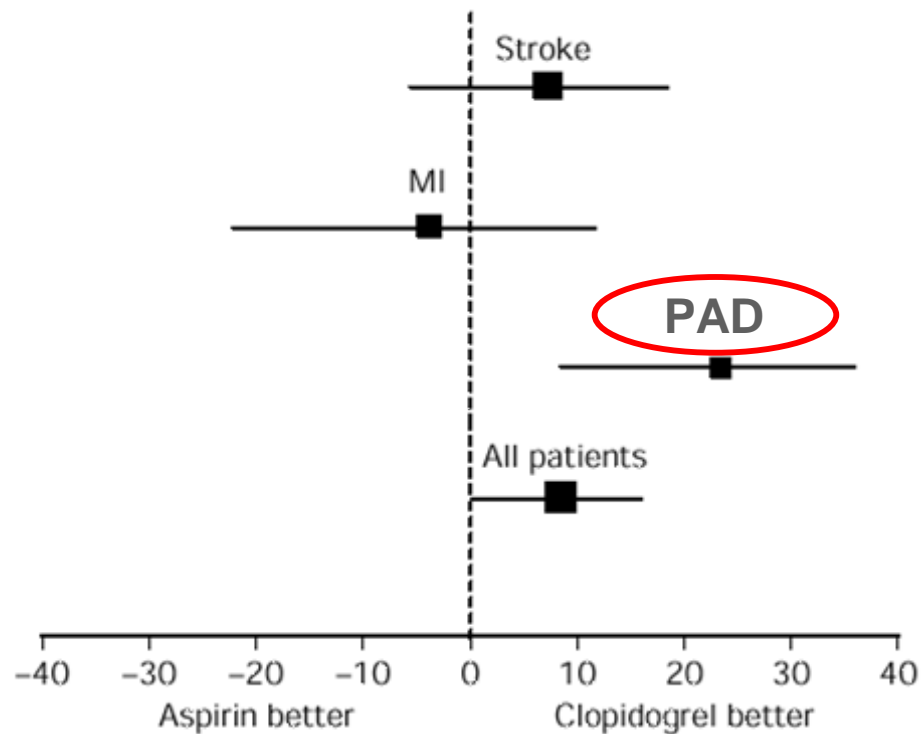
AAP : BENEFICE DANS L'AOMI

Critère principal : IdM, AVC, décès vasculaire

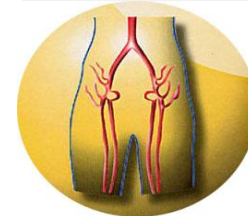
-3,7%
 $p = NS$



Relative-risk reduction (%)



+7,3%
 $p = NS$



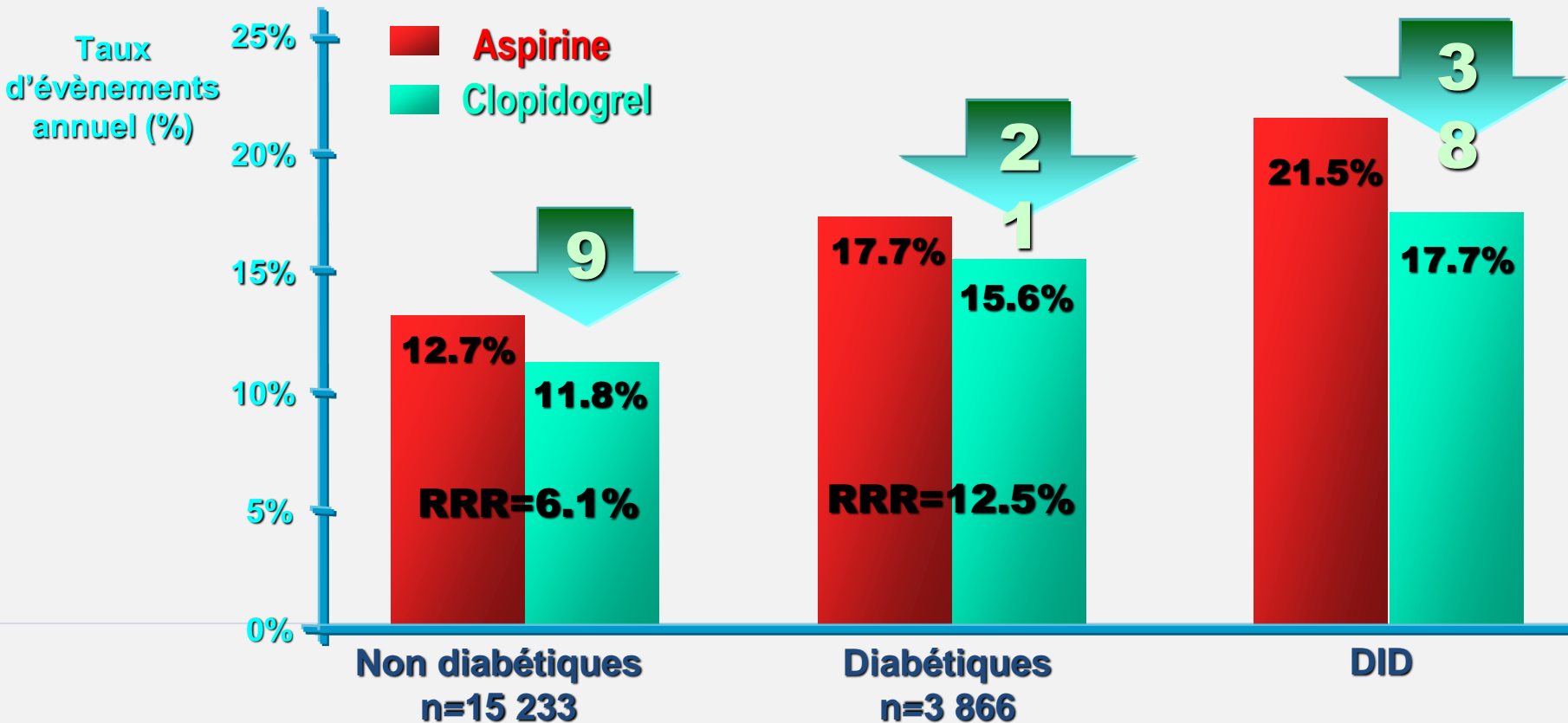
+23,8%
 $p = 0,0028$

Figure 4: Relative-risk reduction and 95% CI by disease subgroup

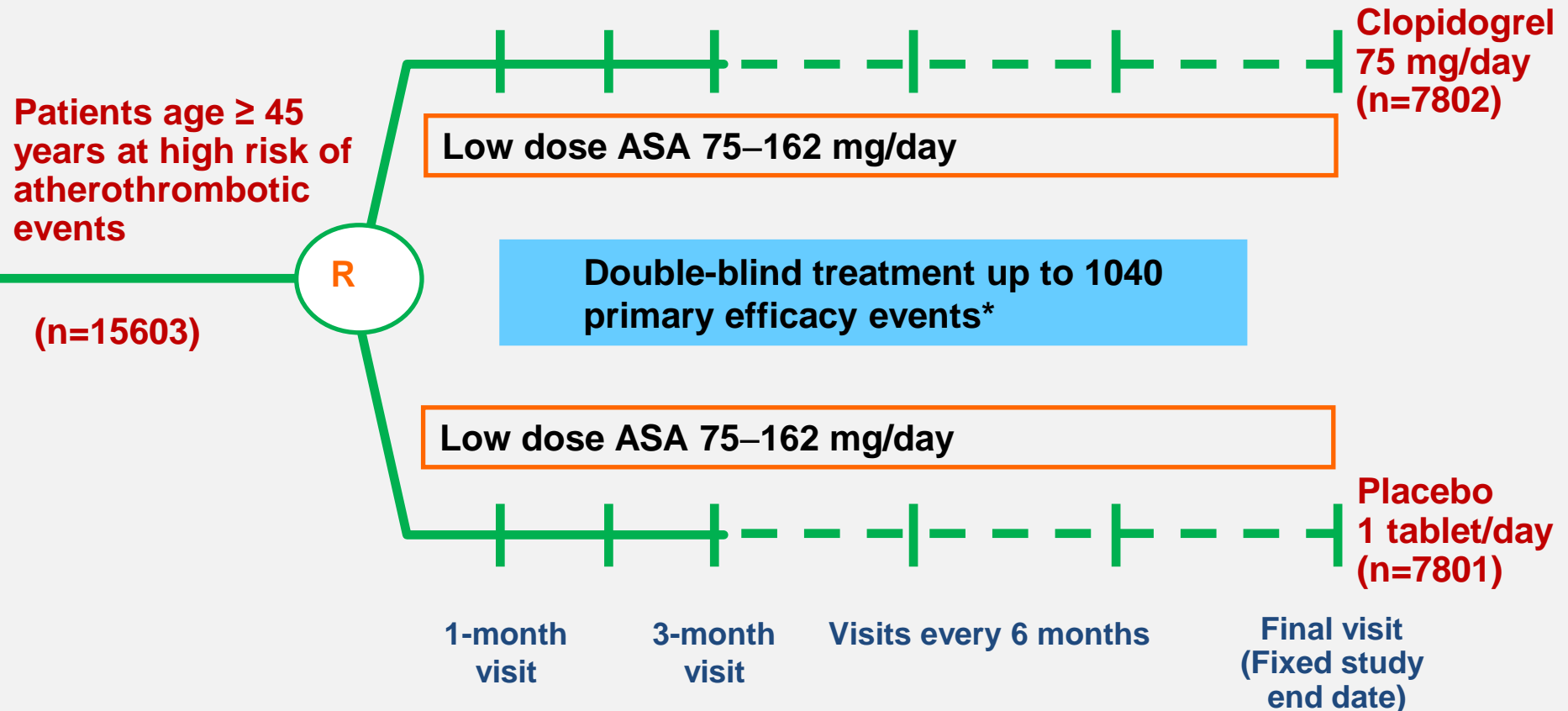
AAP : BENEFICE CHEZ LES PATIENTS DIABETIQUES

Evénements : Mortalité CV, IDM, AVC, Hosp pour ischémie ou saignements

Evénements prévenus / 1000 patients par an versus aspirine

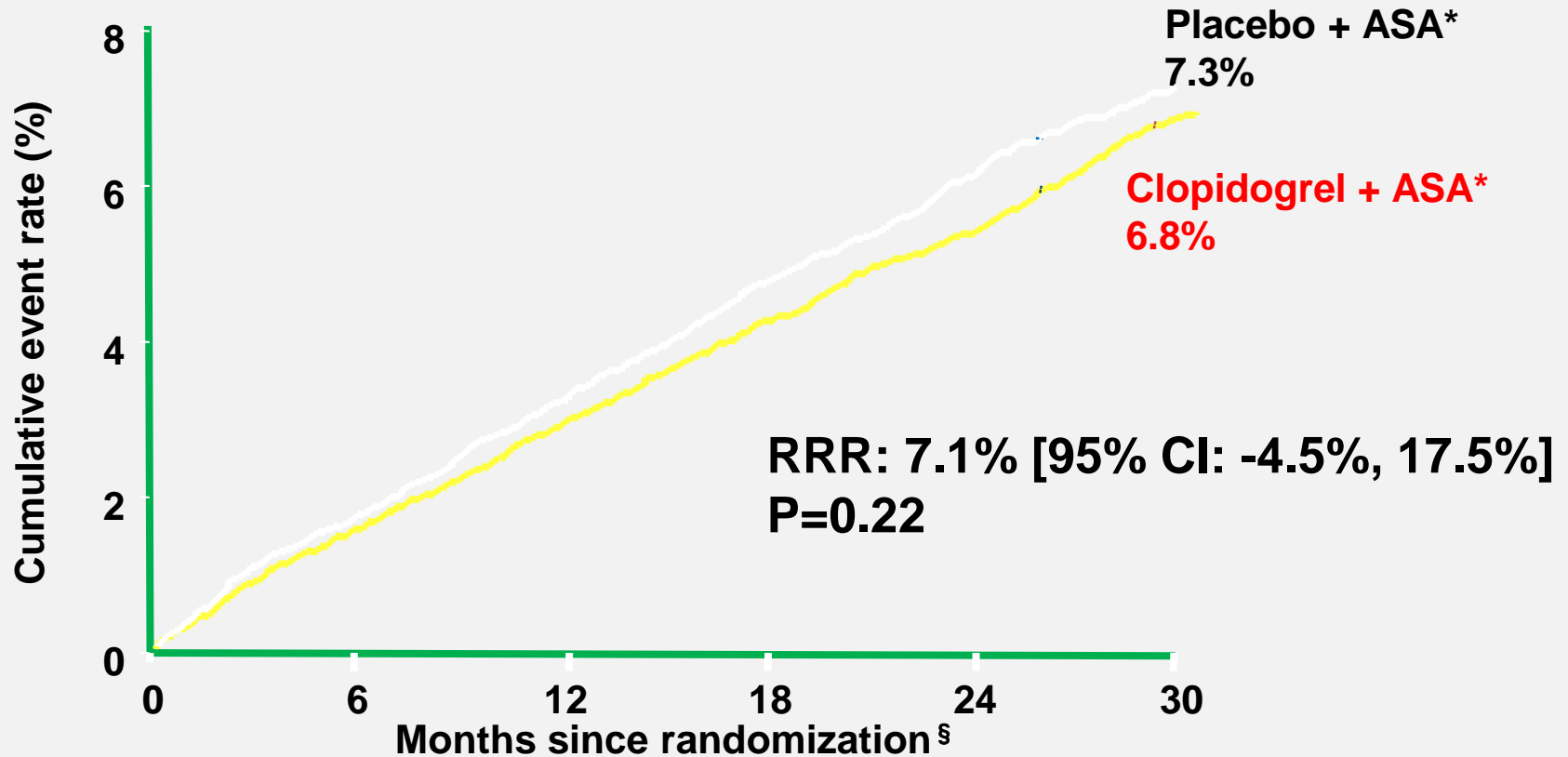


CHARISMA Trial Design



* MI (fatal or non-fatal), stroke (fatal or non-fatal), or cardiovascular death; event-driven trial

Overall Population: Primary Efficacy Outcome (MI, Stroke, or CV Death)[†]

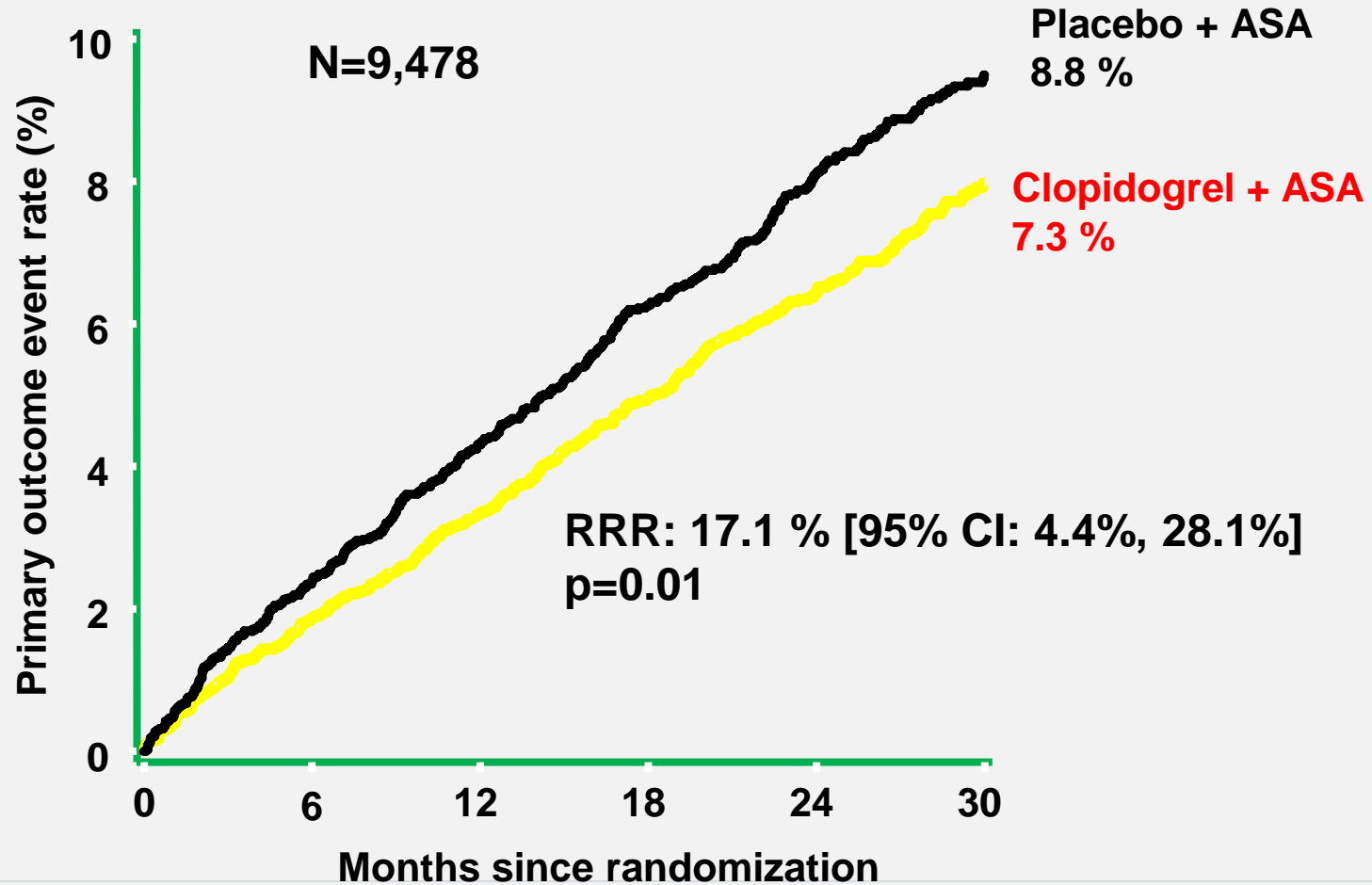


[†] First Occurrence of MI (fatal or non-fatal), stroke (fatal or non-fatal), or cardiovascular death

*All patients received ASA 75-162 mg/day

[§] The number of patients followed beyond 30 months decreases rapidly to zero and there are only 21 primary efficacy events that occurred beyond this time (13 clopidogrel and 8 placebo)

Primary Endpoint (MI/Stroke/CV Death) in Patients with Previous MI, IS, or PAD “CAPRIE-like Cohort”



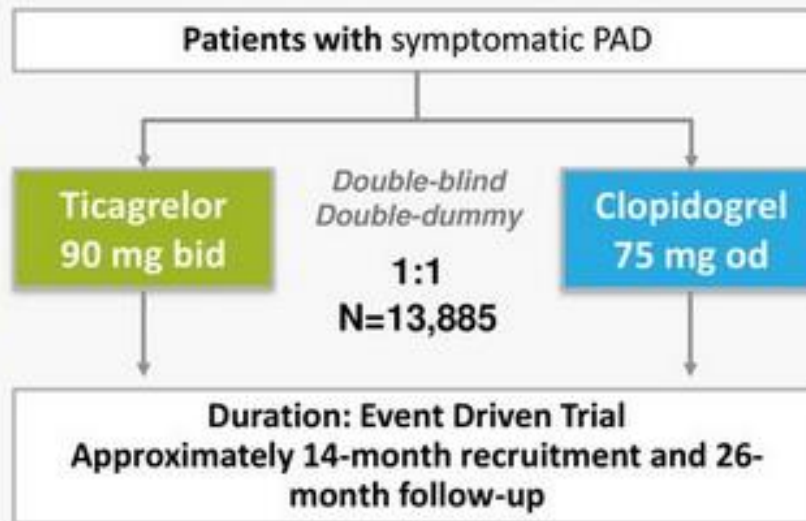
Conclusions

- In patients with multiple risk factors only, without clearly established CV disease, dual antiplatelet was not beneficial - excess in CV mortality as well as an increase in bleeding
 - In patients with documented CV disease (CAD, CVD, or PAD) long-term clopidogrel plus ASA resulted in a significant 12.5% RRR in MI/Stroke/CV Death with no significant increase in severe bleeding compared to ASA alone
-

EUCLID Study Design

Key exclusion criteria:

- Poor metabolizer for CYP2C19
- Patients requiring dual anti-platelet therapy



Inclusion criteria:

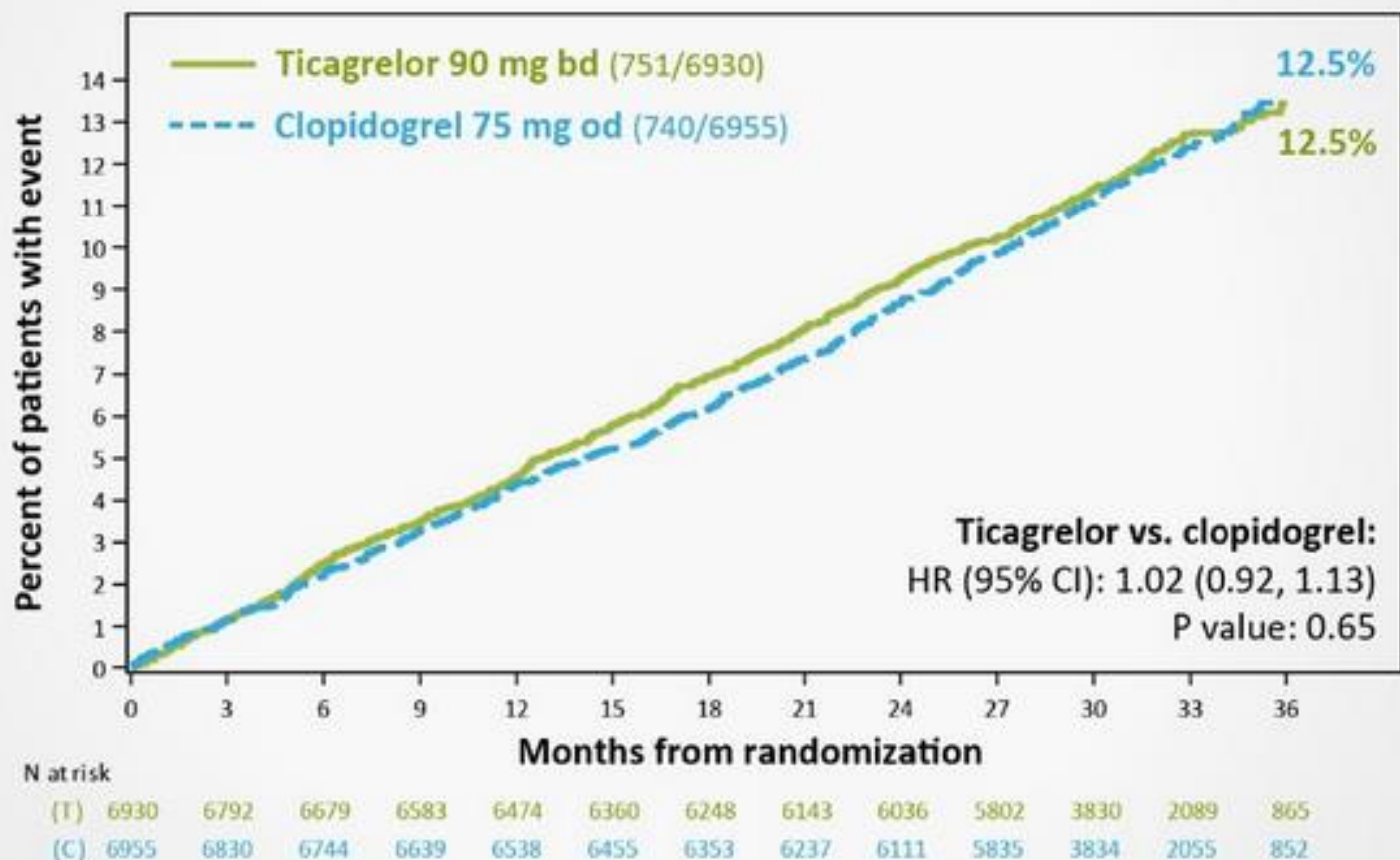
Symptomatic PAD AND one of the following:

- A. ABI ≤ 0.80 at Visit 1 ≤ 0.85 at Visit 2
- OR
- B. Prior lower extremity revascularization > 30 days

Primary Endpoint: cardiovascular death, myocardial infarction, or ischemic stroke

Primary Safety Endpoint: TIMI major bleeding

Primary Efficacy Endpoint (CV Death, MI, or Ischemic Stroke)



Conclusions

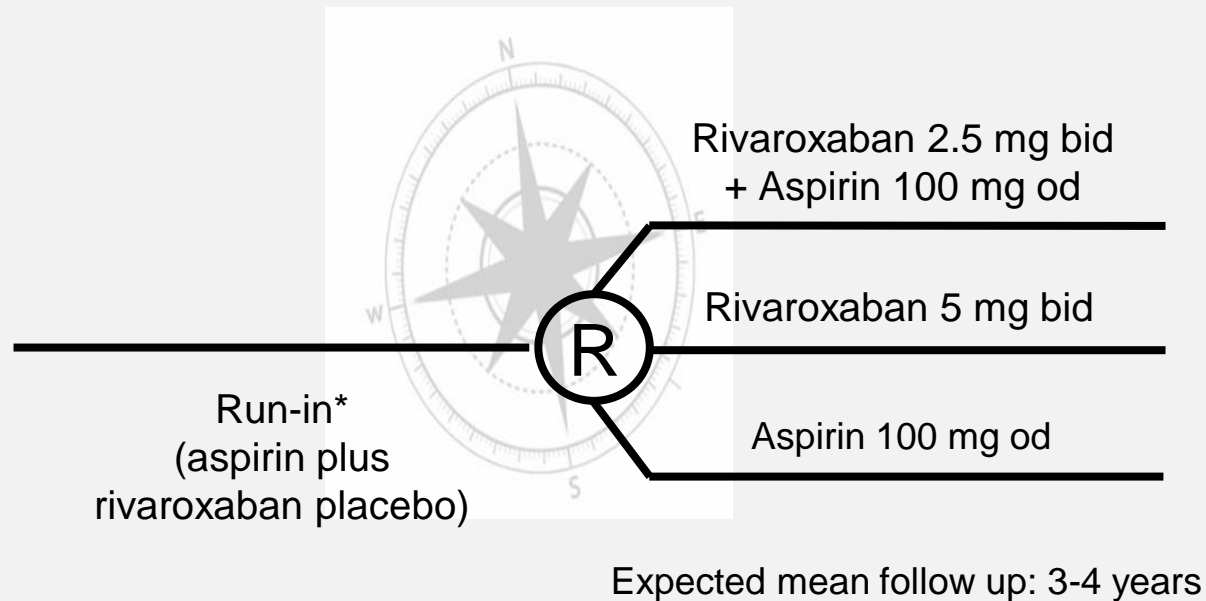
In patients with symptomatic peripheral artery disease:

- Ticagrelor was not superior to clopidogrel for the reduction of cardiovascular events;
- Major bleeding occurred at similar rates in patients treated with ticagrelor and clopidogrel.

COMPASS Study Design

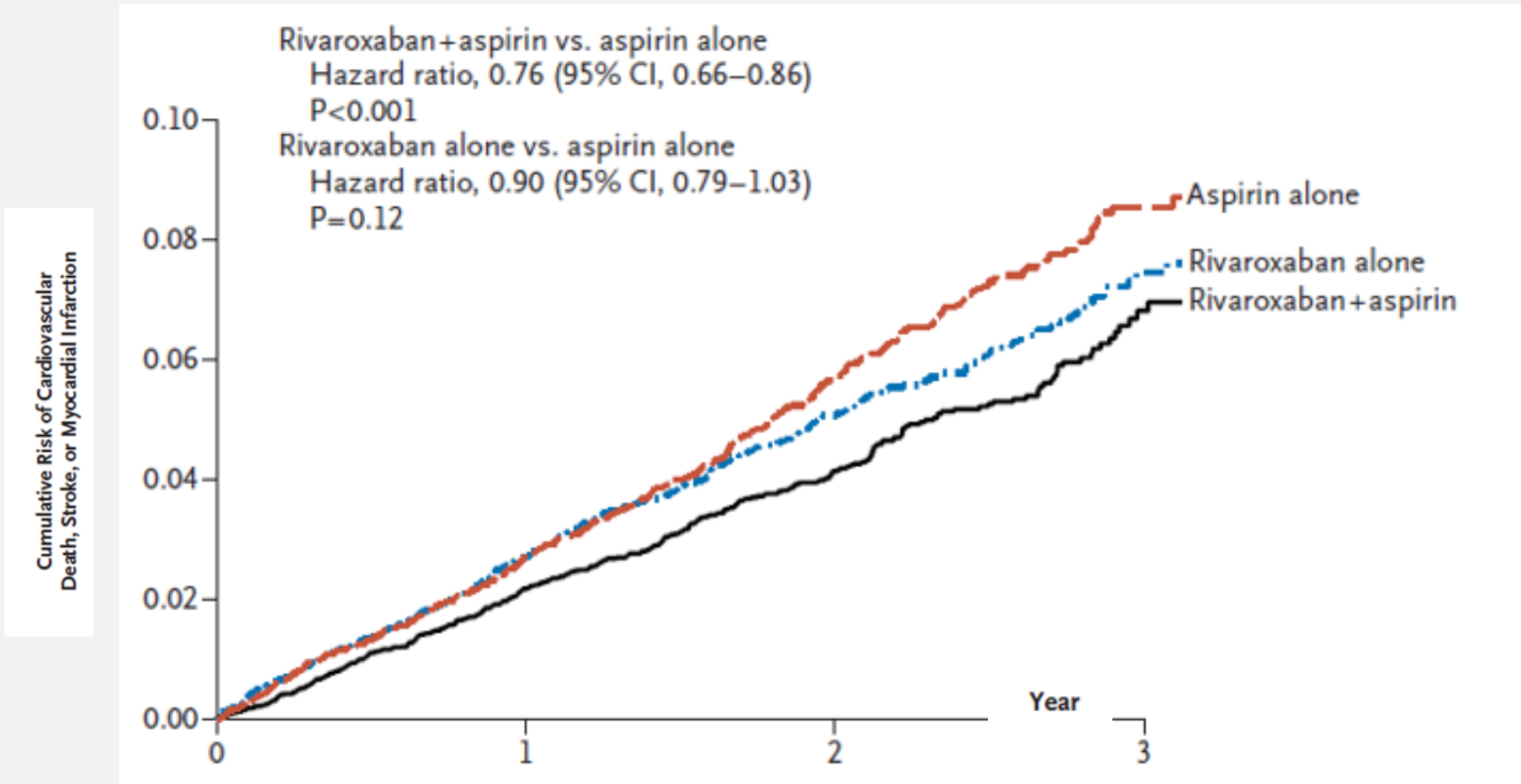
n=27,395 Chronic CAD or PAD

2,200 participants with a primary outcome event



*excluding patients enrolled 4-14 days post CABG

COMPASS: patients with chronic CAD or PAD (n=27,395)



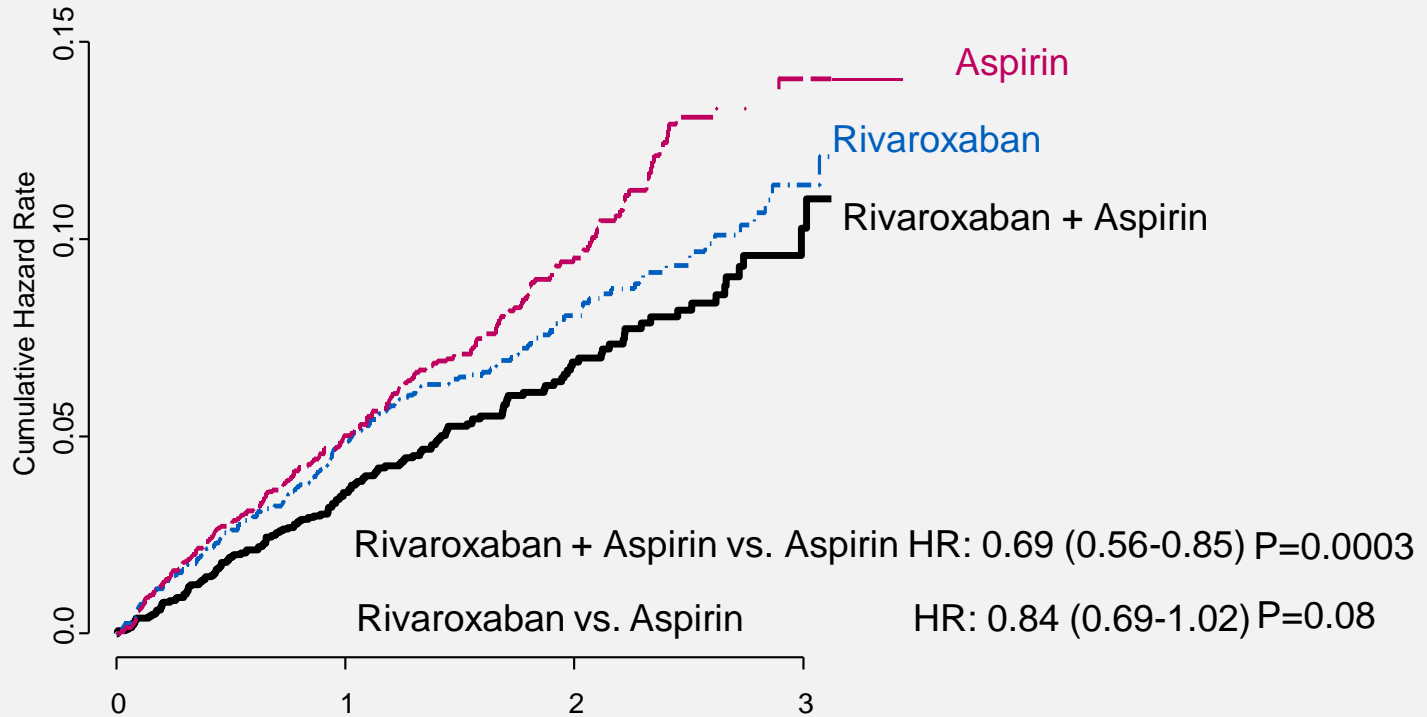
PAD Patients in COMPASS

PAD Groups	Number of patients
All Patients	7,470
Symptomatic PAD Limbs	4,129
Carotid Disease	1,919
CAD + Low ABI (<0.90) only	1,422

Mean Follow-up: 21 months

COMPASS PAD

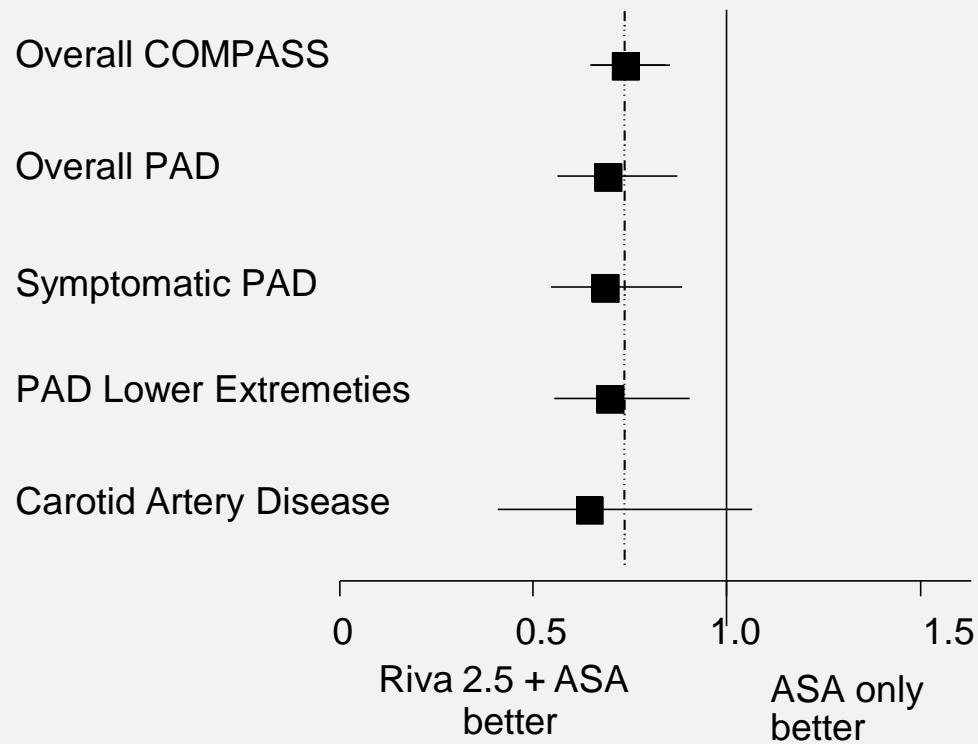
MACE or MALE or Major Amputation



No. at Risk	0	1	2	3
Riva + ASA	2492	2069	893	124
Riva	2474	2023	864	147
ASA	2504	2034	911	113

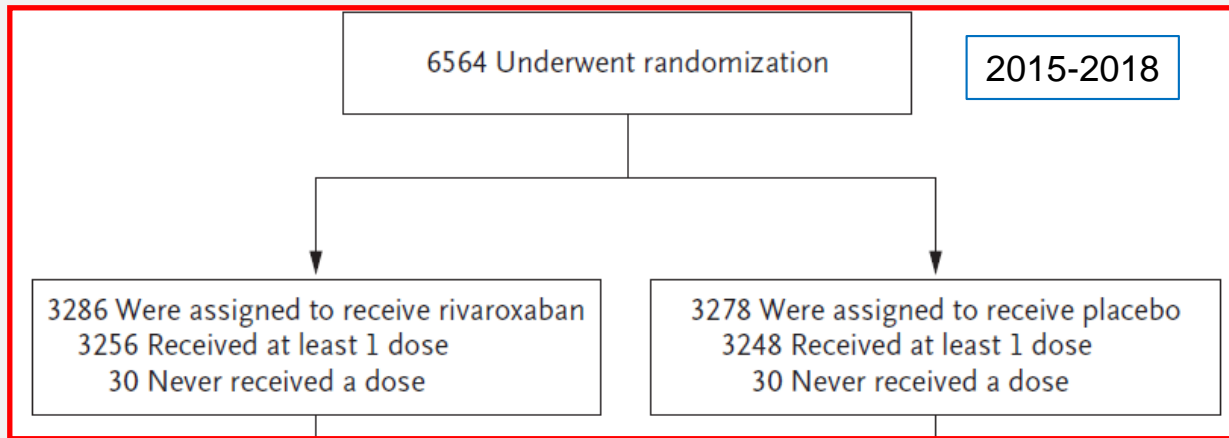
COMPASS PAD

MACE, MALE or Major Amputation



After PAD Revascularization: VOYAGER-PAD

ASA + Rivaroxaban 2.5mg BID vs ASA alone



Qualifying revascularization (within 10 days):

- Endovascular: 65%
- Surgical: 35%

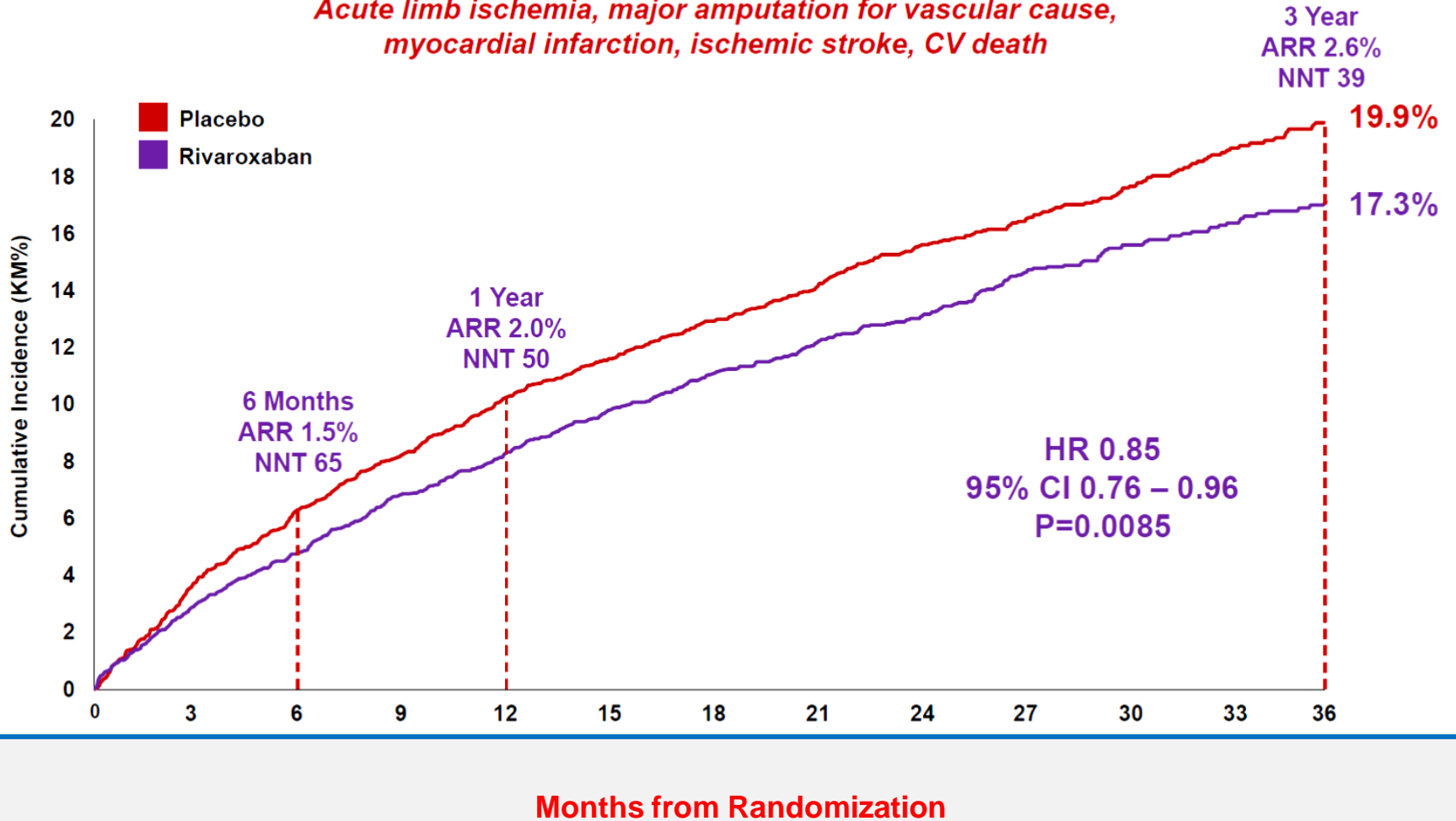
Indication:

- Claudication: 77%
- CLI: 23%

Primary outcome: Composite of ALI, major amputation (vascular), MI, ischemic stroke, CV death

Primary Endpoint

Acute limb ischemia, major amputation for vascular cause, myocardial infarction, ischemic stroke, CV death



VOYAGER PAD : Bleeding Outcomes

	ASA + Riva 2.5mg	ASA alone	HR (95% CI)	P-value
TIMI major bleeding	62	44	1.43 (0.97-2.10)	0.07
Fatal	6	6	1.02 (0.33-3.15)	-
Intracranial	13	17	0.78 (0.38-1.61)	-
ISTH major bleeding	140	100	1.42 (1.10-1.84)	0.007

ESC 2017

Recommendations	Class ^a	Level ^b
Smoking cessation is recommended in all patients with PADs. ^{27,28}	I	B
Healthy diet and physical activity are recommended for all patients with PADs.	I	C
Statins are recommended in all patients with PADs. ^{31,32}	I	A
In patients with PADs, it is recommended to reduce LDL-C to <1.8 mmol/L (70 mg/dL) or decrease it by $\geq 50\%$ if baseline values are 1.8–3.5 mmol/L (70–135 mg/dL). ²⁵	I	C
In diabetic patients with PADs, strict glycaemic control is recommended.	I	C
Antiplatelet therapy is recommended in patients with symptomatic PADs. ⁵¹	I	C ^d
In patients with PADs and hypertension, it is recommended to control blood pressure at <140/90 mmHg. ^{41,42,52}	I	A
ACEIs or ARBs should be considered as first-line therapy ^f in patients with PADs and hypertension. ^{47,53}	Ila	B

Lower extremities artery disease

Long-term SAPT is recommended in symptomatic patients.^{51,54,68}

I

A

Long-term SAPT is recommended in all patients who have undergone revascularization.⁷²

I

C

SAPT is recommended after infra-inguinal bypass surgery.^{72,88,89}

I

A

In patients requiring antiplatelet therapy, clopidogrel may be preferred over aspirin.^{51,69}

IIb

B

Vitamin K antagonists may be considered after autologous vein infra-inguinal bypass.⁷³

IIb

B

DAPT with aspirin and clopidogrel for at least 1 month should be considered after infra-inguinal stent implantation.

IIa

C

DAPT with aspirin and clopidogrel may be considered in below-the-knee bypass with a prosthetic graft.⁶⁴

IIb

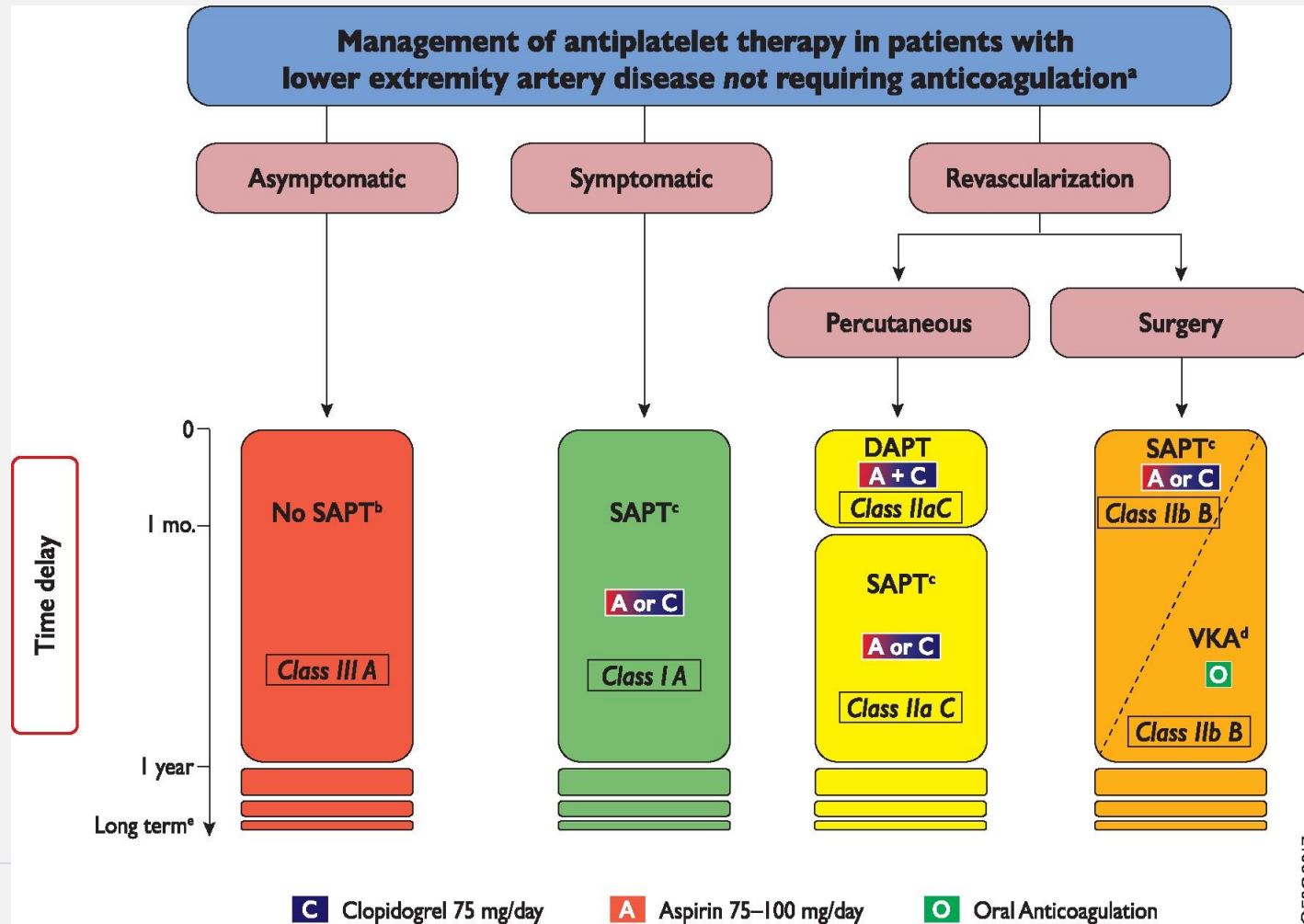
B

Because of a lack of proven benefit, antiplatelet therapy is not routinely indicated in patients with isolated^d asymptomatic LEAD.^{66, 67}

III

A

Antiplatelet therapy in patients with lower extremity artery disease.



CLINICAL PRACTICE GUIDELINE

2024 ACC/AHA/AACVPR/APMA/ ABC/SCAI/SVM/SVN/SVS/SIR/VESS Guideline for the Management of Lower Extremity Peripheral Artery Disease

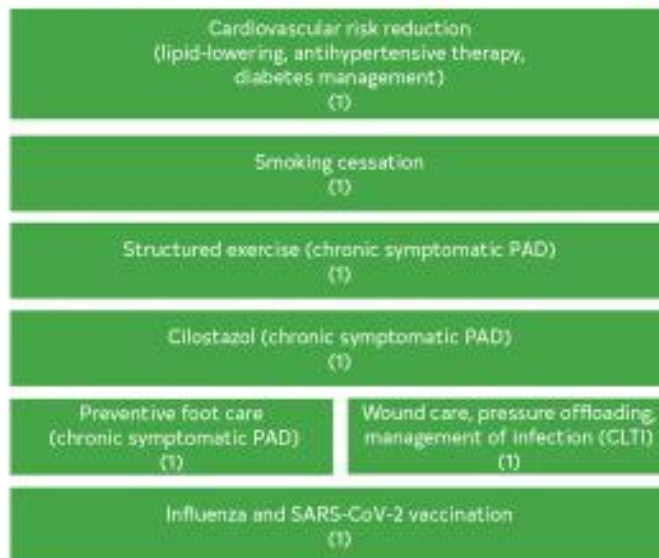
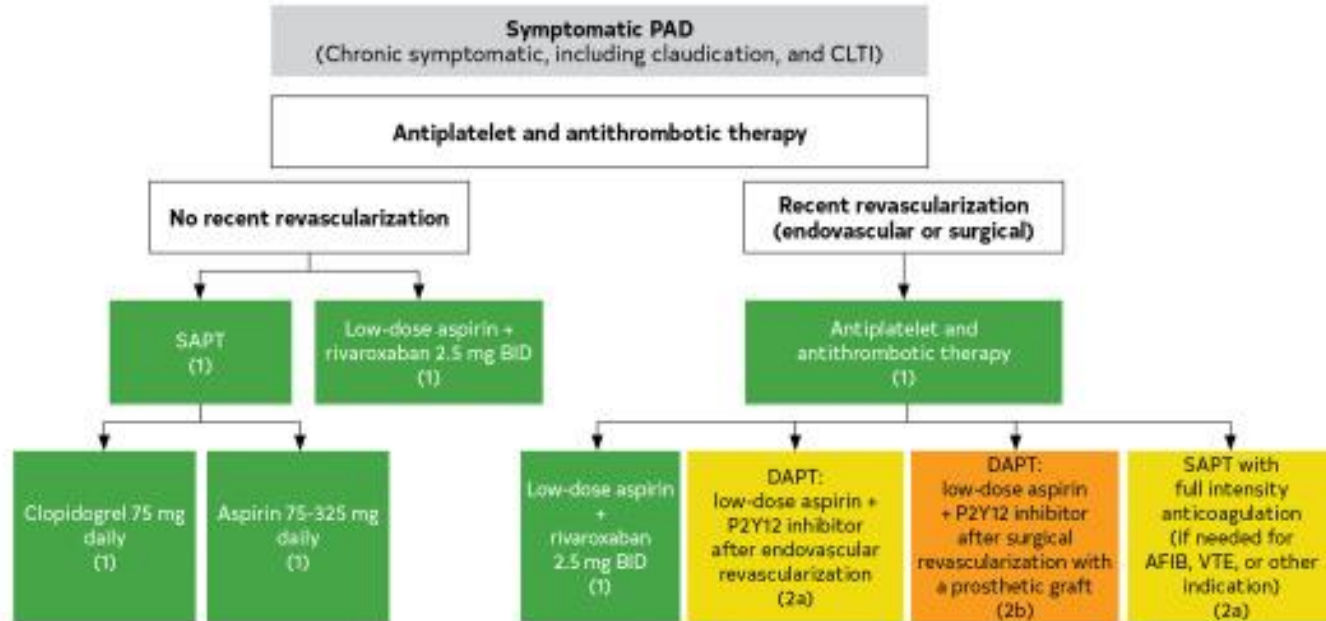
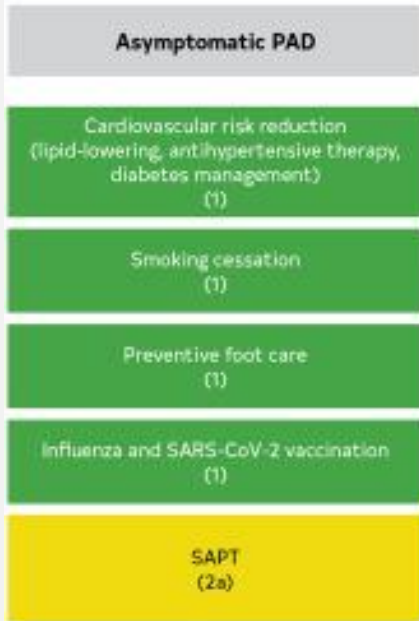
A Report of the American College of Cardiology/American Heart Association
Joint Committee on Clinical Practice Guidelines

*Developed in Collaboration With and Endorsed by the American Association of Cardiovascular and
Pulmonary Rehabilitation, American Podiatric Medical Association, Association of Black Cardiologists,
Society for Cardiovascular Angiography and Interventions, Society for Vascular Medicine,
Society for Vascular Nursing, Society for Vascular Surgery, Society of Interventional Radiology, and
Vascular & Endovascular Surgery Society*


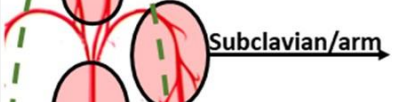


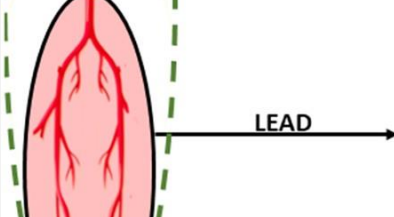
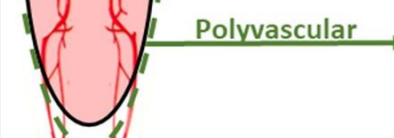
2024 ACC/AHA/AACVPR/APMA/ ABC/SCAI/SVM/SVN/SVS/SIR/VESS Guideline for the Management of Lower Extremity Peripheral Artery Disease

COR	LOE	RECOMMENDATIONS
1	A	1. In patients with symptomatic PAD, single antiplatelet therapy is recommended to reduce the risk of MACE. ¹⁻⁴
1	B-R	2. In patients with symptomatic PAD, single antiplatelet therapy with clopidogrel alone (75 mg daily) is recommended to reduce the risk of MACE. ⁴
1	C-LD	3. In patients with symptomatic PAD, single antiplatelet therapy with aspirin alone (range, 75-325 mg daily) is recommended to reduce the risk of MACE. ¹⁻³
1	A	4. In patients with symptomatic PAD, low-dose rivaroxaban (2.5 mg twice daily) combined with low-dose aspirin is effective to reduce the risk of MACE and MALE. ^{5,6}
1	B-R	5. After endovascular or surgical revascularization for PAD, antiplatelet therapy is recommended. ^{1,7-9}
1	A	6. After endovascular or surgical revascularization for PAD, low-dose rivaroxaban (2.5 mg twice daily) combined with low-dose aspirin is recommended to reduce the risk of MACE and MALE. ⁷

2024 ACC/AHA/AACVPR/APMA/ABC/SCAI/SVM/SVN/SVS/SIR/VESS Guideline for the Management of Lower Extremity Peripheral Artery Disease



Summary of optimal and alternative antithrombotic strategies in patients with peripheral arterial disease. ...

	Chronic disease (long-term)		Post-revascularization Period (1-3 months)	
	Default strategy (or alternative) <i>(or if high bleeding risk)</i>		<u>Surgery</u>	<u>Endovascular</u>
	<u>Symptomatic</u>	<u>Asymptomatic</u>		
 Carotid stenosis	A (or C) <i>A</i>	A (or C) <i>N</i>	A (or C)	A+C
 Subclavian/arm	A (or C) <i>A</i>	A (or C) <i>N</i>	A	A+C
 Aorta	A (or C) <i>N</i>	A (or N) <i>N</i>	A	A+C
 Renal stenosis	A (or C) <i>N</i>	A (or N) <i>N</i>	A	A+C
 LEAD	R+A <i>C (or A)</i>	N ^a	R+A <i>C (or A)</i>	R+A±C* (or A+C) <i>C (or A)</i>
 Polyvascular	R+A <i>C (or A)</i>			

^aonly if isolated

Abbreviations: A: aspirin; C: Clopidogrel; N: no antithrombotic therapy; R: low-dose rivaroxaban (2.5 mg bid)

Merci pour votre attention
