

Le patient à haut risque post SCA:
l'évolutivité clinique est elle contrôlable?

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CNCH, le 24/11/2017
Symposium Astra Zeneca



Collège
National des
Cardiologues des
Hôpitaux

DÉCLARATION DE RELATIONS PROFESSIONNELLES

Conférencier : Nicolas Delarche

Je déclare les liens d'intérêt potentiel suivants:

Consultant, expertises et recherche clinique:
Astra Zeneca, Bayer, Amgen, Sanofi, Pfizer, BMS, Novartis



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SCA à haut risque définition du risque résiduel

- Risque résiduel de cholestérol
 - LDL-c élevé
 - CRPus basse
- Risque résiduel d'inflammation
 - LDL-c bas
 - CRPus élevée
- **Risque résiduel thrombotique**



SCA à haut risque

définition du risque résiduel

- **Les MACCE:**

- 5% à un an, (décès, infarctus, AVC)

- Décès cardiovasculaires (3% / an)
- Récidives ischémiques, (SCA et revascularisation même territoire ou non)
- Évolution de l'athérome sur d'autres territoires, (AVC, AOMI)
- **Malgré un traitement adapté**

- **2 périodes:**

- **< 12 mois:** courbe non linéaire décroissante d'évènements en rapport avec l'épisode initial
- **> 12 mois:** courbe linéaire d'évènements non nuls



SCA à haut risque définition du risque résiduel

- Au niveau coronaire:

- Risques sur le vaisseau cible du SCA

- Resténose intrastent (18% à 4 ans avec les stents actifs – polymère dégradable – dernière génération)
- Progression de l'athérome à proximité;

- Risques sur les vaisseaux non traités:

- Aggravation de lésions coronaires initialement non critiques

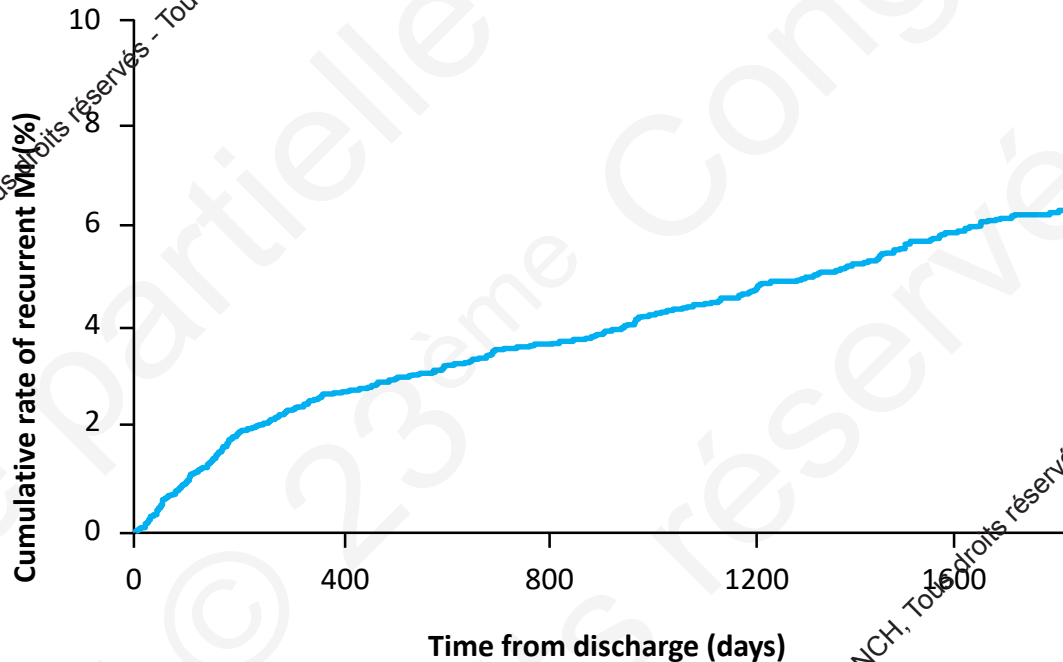


SCA à haut risque le risque résiduel

- **Ce que nous avons appris des études:**
 - **OACIS**
 - **REACH**
 - **GRACE**
 - **APOLLO**
 - **PROTECT**
 - **PEGASUS TIMI 54**

The Highest Risk of Recurrent MI Occurs in the Initial Year Post-Discharge, but the Risk Is Continuous and Linear up to Year 5

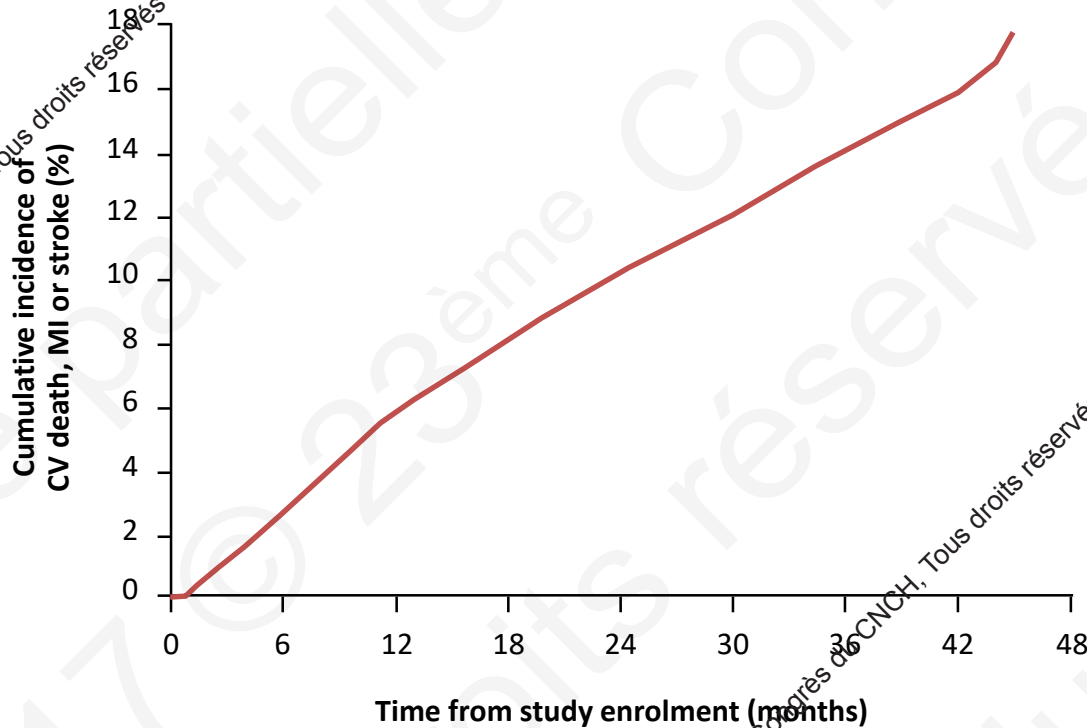
- **OACIS Registry:** Observational study of **recurrent MI** in Japanese patients with acute MI with up to **5 years** of follow-up (n=7870)



Risk for recurrent MI stays constant over 5-year period;
this is consistent with risk data across different registries and countries

Prior MI Patients Both With and Without History of Ischaemic Events Have a Continuous and Linear Risk of **CV Death, MI, or Stroke for >3 Years**

- **REACH Registry***: CV risk in patients with a **history of ischaemic events** (MI or stroke) at baseline (n=21,890)

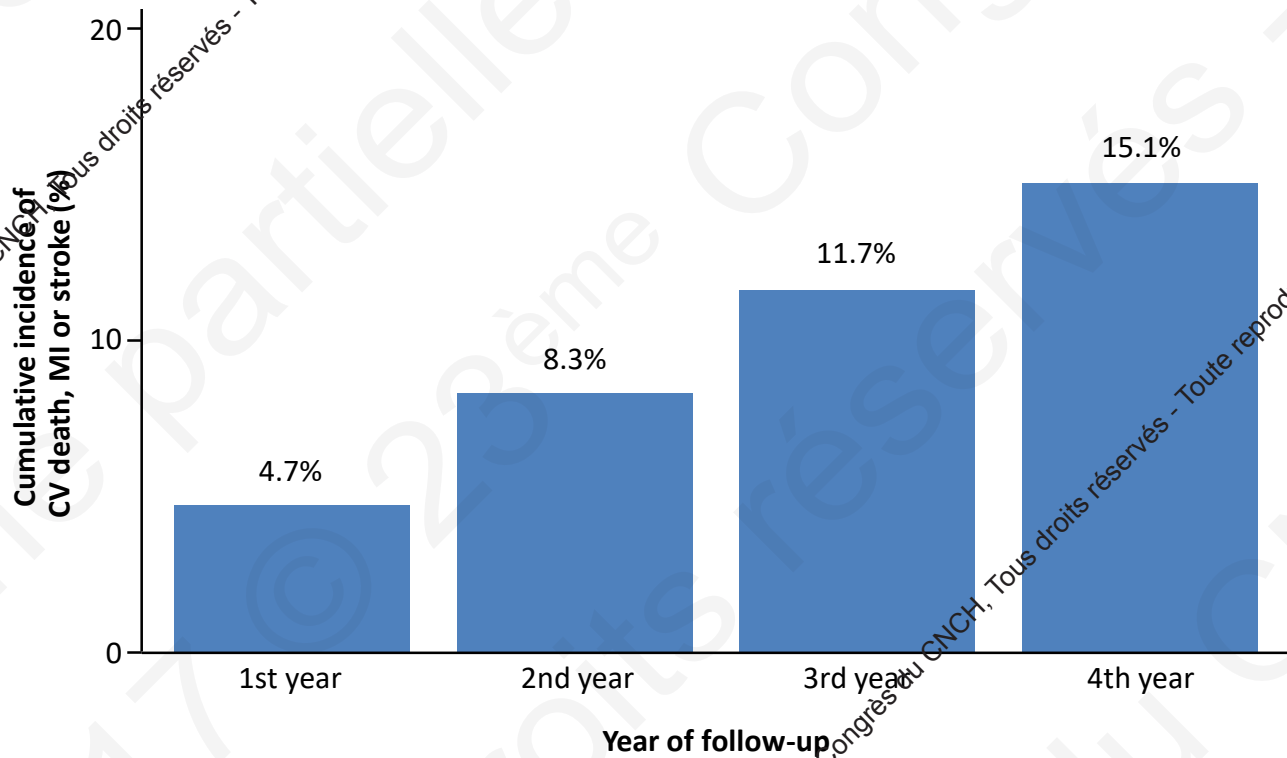


*A prospective, observational registry of outpatients ≥ 45 years of age with established history of CAD, CVD, PAD, or ≥ 3 atherosclerosis risk factors were followed up to 48 months. CAD, coronary artery disease; CV, cardiovascular; CVD, CV disease; MI, myocardial infarction; PAD, peripheral artery disease; REACH, Reduction of Atherothrombosis for Continued Health.

Bhatt DL *et al.* JAMA 2010;304:1350–1357

Prior MI Patients Both With and Without History of Ischaemic Events Have a Continuous and Linear Risk of CV Death, MI, or Stroke for >3 Years

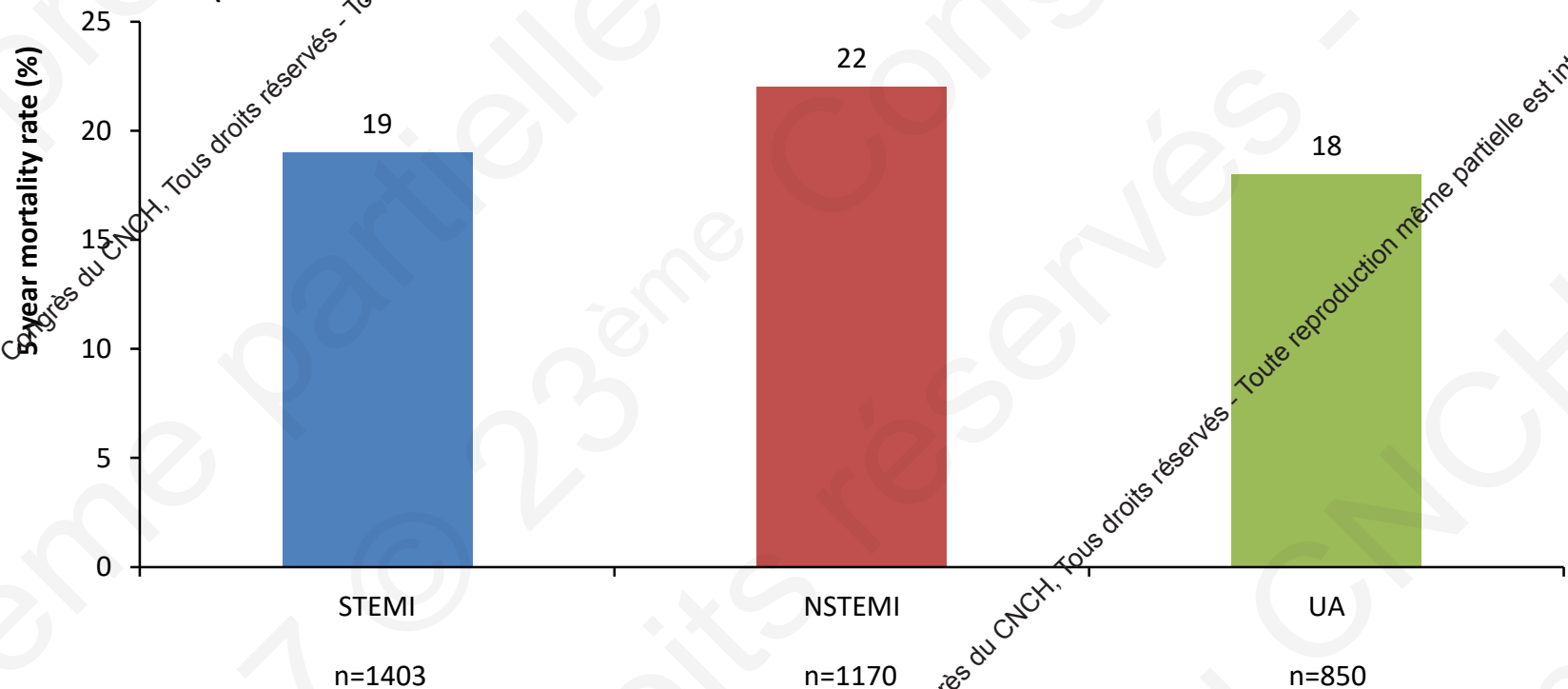
- REACH Registry: 4-year event rate in patients with prior MI and no history of stroke or TIA (n=32,307*)**



*Out of 65,531 initially enrolled in the study, 49.3% (n=32,307) were eligible for 4-year follow-up
 CV, cardiovascular; MI, myocardial infarction; REACH, REduction of Atherothrombosis for Continued Health; TIA, transient ischemic attack
 Abtan J et al. Clin Cardiol 2016;39:670–677

1/5 Patients With ACS Will Have Died Within 5 Years of Their Index Event

- GRACE Registry:** Long term 5-year prospective analysis of UK and Belgian patients with ACS (n>3000)



Post-discharge deaths occurred in 68%, 86% and 97% of STEMI, NSTEMI and UA patients, respectively

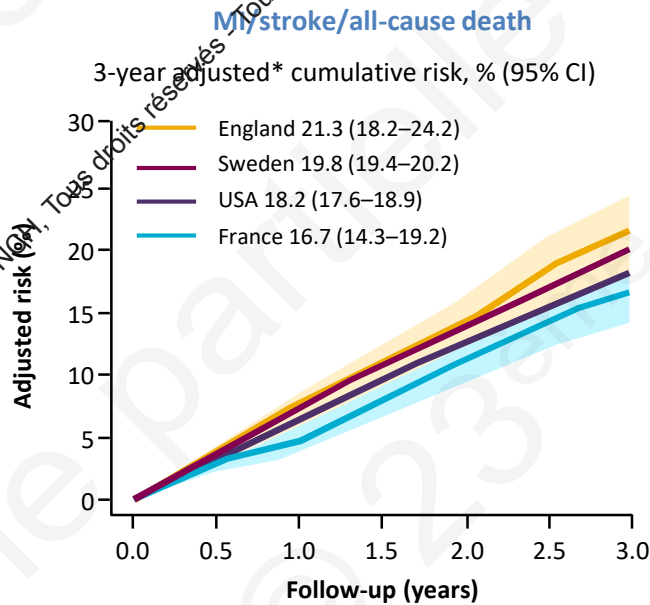
ACS, acute coronary syndromes; GRACE, Global Registry of Acute Coronary Events; NSTEMI, non-ST-segment elevation myocardial infarction; STEMI, ST-segment elevation myocardial infarction; UA, unstable angina

Fox KA et al. *Eur Heart J* 2010;31:2755–2764

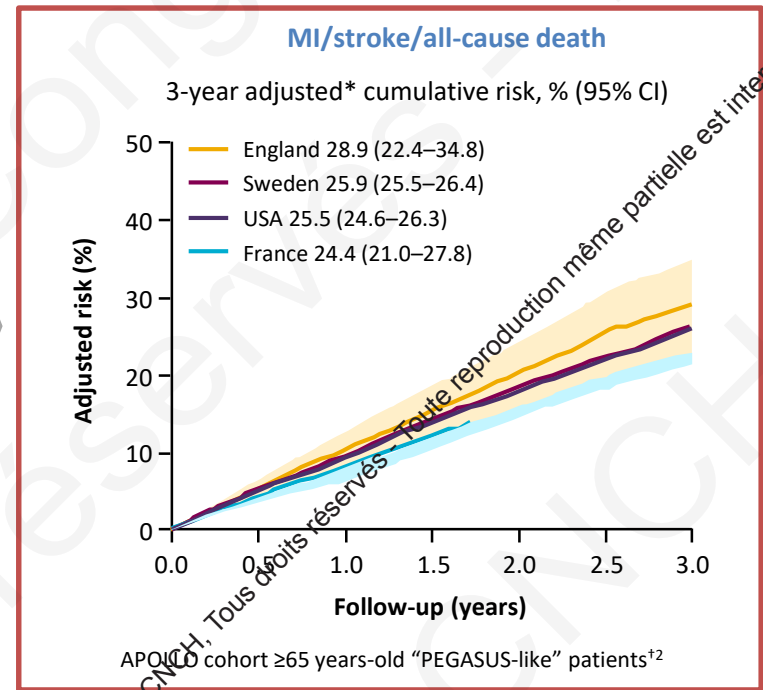


The “PEGASUS-Like” Cohort Showed an Elevated Cumulative Risk for MI, Stroke, and All-Cause Death Versus the Total Cohort

- APOLLO 4-country analysis* prospectively followed post-MI patients, event-free for 1 year, long-term over **3 years** (n>150,000)¹



APOLLO 4-country total cohort (n>150,000)¹



APOLLO cohort ≥65 years-old “PEGASUS-like” patients¹²

Data are consistent across different registries and countries

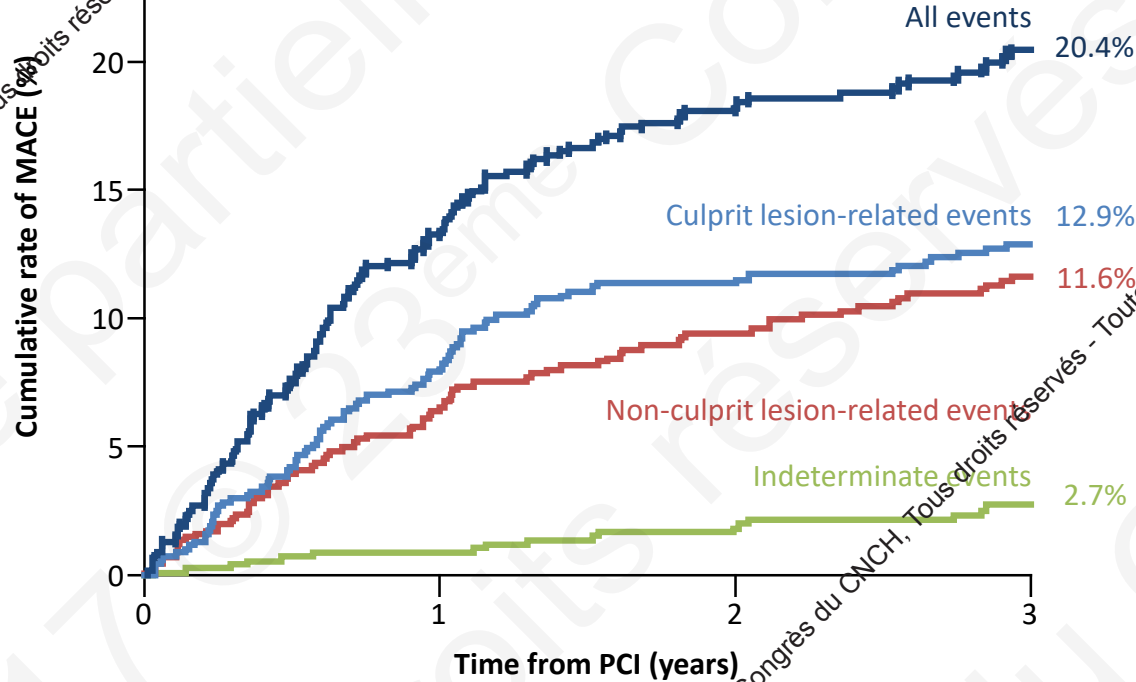
*Adjusted for differences in study populations; ¹²PEGASUS trial inclusion criteria included age ≥65 years-old as an additional risk factor
Shaded areas / figures in brackets [95%CI]

CI, confidence interval; MI, myocardial infarction; PEGASUS, Prevention of Cardiovascular Events in Patients with Prior Heart Attack Using Ticagrelor Compared to Placebo on a Background of Aspirin

1. Rapsomaniki E *et al.* ESC Oral presentation 2014; 2. Rapsomaniki E *et al.* *Eur Heart J Qual Care Clin Outcomes* 2016;2:172–183

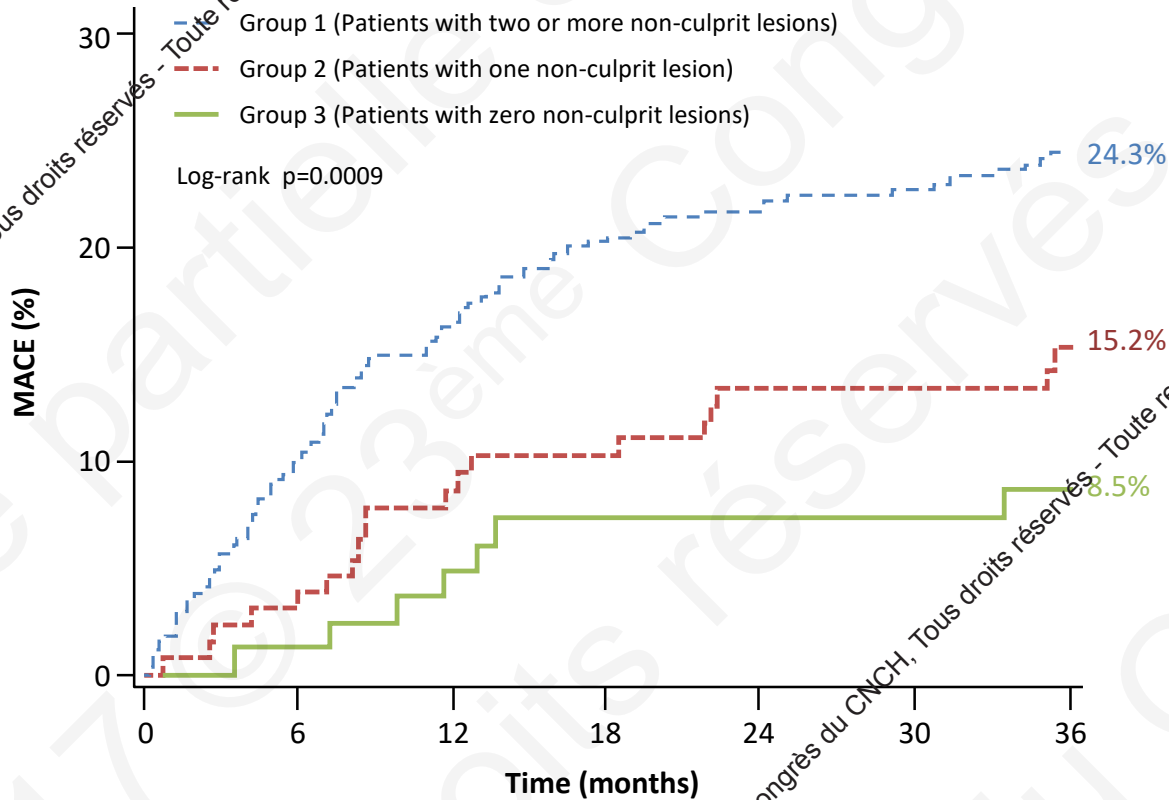
Anatomical Risk Factors: Non-Culprit Lesion Versus Initial Culprit Lesion

- Recurrent events in ACS patients are as likely to originate from a non-culprit lesion as they are from the initial culprit lesion



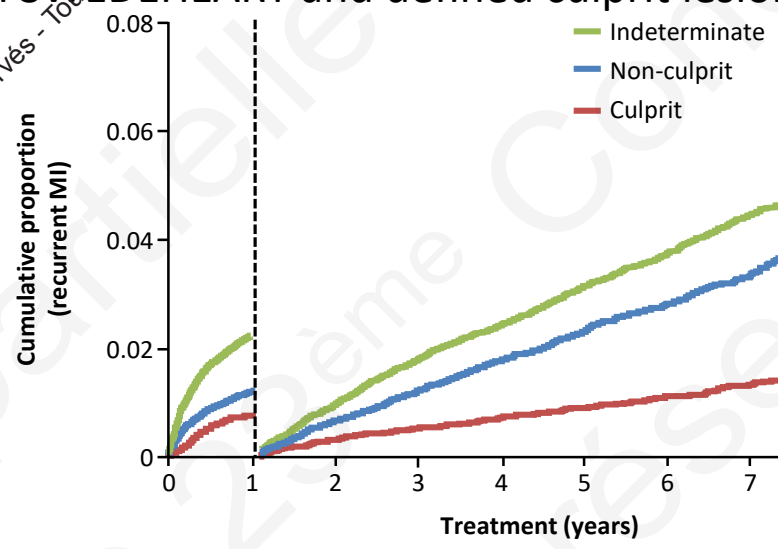


The Cumulative Incidence of MACE Increases Over Time With the Number of Non-Culprit Lesions in Patients With ACS



The Risk of Non-Culprit-Related **Recurrent MI** Is Twice That of Culprit-Related Recurrent MI

- SWEDEHEART (PRECLUDE): A prospective study with **8 years'** follow-up using data from SWEDEHEART and defined culprit lesion at index MI (n=41,789)



| | Recurrent MI related to non-culprit (n=1193) | Recurrent MI related to culprit (n=597) | Indeterminate recurrent MI (n=1813) |
|--|--|---|-------------------------------------|
| Cumulative event probability at 8 years (95% CI) | 0.06 (0.05–0.06) | 0.03 (0.02–0.03) | 0.07 (0.07–0.08) |

SCA à haut risque définition du risque résiduel

Objectifs prioritaires

- Identification des patients à haut risque

- Assurer un suivi plus rapproché ?

- Administrer une thérapeutique plus adaptée et agressive ?

- Prolongation de la DAPT

- Traitement hypocholestérolémiant plus intense



SCA à haut risque

Facteurs influençant le risque résiduel

- **SCA – 1^{ère} année:**
 - Complexité de la lésion coupable, (Yeh, JACC 2017, 18: 2213-2223)
 - Implantation d'un stent nu
 - Patient pluritronculaire
- **SCA - > 1^{ère} année:**
 - NSTEMI
 - **Coronaropathie pluritronculaire**
 - **Patient âgé**
 - **Diabétique**
 - Antécédents cérébrovasculaires
 - Artériopathie périphérique
 - Antécédents de **cardiopathie ischémique** et d'insuffisance cardiaque
 - **Antécédents d'insuffisance rénale**

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SCA à haut risque: identification des patients à haut risque: quels examens pour quels patients?

Une illusion...

- Détection de la **plaque vulnérable** (écho-endo ou OCT)
 - Corps néotique important
 - Chape fibreuse fine
 - Corps lipidique important
 - Dénudation de l'endothélium ou adhésion plaquettaire
 - Inflammation active
- Étude **PROSPECT**:
 - Plaques à chape fine: risque accru de complication (*3,5)
 - Possibilité de stabilisation spontanée
 - Présence: valeur prédictive négative élevée, mais valeur prédictive positive faible < 25%
- Prévention de la **thrombose de stents**: multifactorielle
 - Précoce: défaut d'endothélialisation
 - Tardive: inflammation, néoprolifération, malapposition
 - Variables associées: arrêt prématuré de la DAPT, contexte de SCA, diabète, insuffisance rénale, dysfonction VG et critères anatomiques lésionnels (lésions type C, longueur > 20 mm et diamètre 3 mms, nombre de stents, diamètre luminal minimal en fin de procédure, dissection, thrombus résiduel ou malapposition)
- Détection de **l'ischémie résiduelle**:
 - place des explorations non invasives de stress
 - À quelle fréquence les répéter?

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SCA à haut risque: identification des patients à haut risque Les outils d'identification

- **Période instable**, < 12 mois (décès, infarctus, thrombose de stent)
 - Score **GRACE**, (prédiction du risque de décès)
 - Score **CRUSADE**, (risque hémorragique)
 - Score **PRECISE-DAPT**
- **Période stable**, > 12 mois
 - Score **DAPT**: (intégration des risques ischémiques et hémorragiques)
 - Score **SYNTAX** (évaluation de la complexité et diffusion des lésions coronaires initiales)
 - **Score angiographique** (3 vx, 2 stents /bif, cto, lg stent > 60 mm)
 - **Score calcique** coronaire (> 400: risque *3)
 - Atteinte artérielle périphérique (*2,5 le risque de survenue d'un évènement ischémique)
 - **Critères PEGASUS ++**

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RISK scores validated for dual antiplatelet therapy duration decision-making

| | PRECISE-DAPT score | DAPT score |
|-----------------------------------|---|---|
| Time of use | At the time of coronary stenting | After 12 months of an eventful DAPT |
| DAPT duration strategies assessed | Short DAPT (3–6 months) vs. Standard/long DAPT (12–24 months) | Standard DAPT (12 months) vs. Long DAPT (30 months) |
| Score calculation | <p>HB ≥ 2 11-5 11 10-5 ≤ 10</p> <p>WBC ≤ 5 8 10 12 14 16 18 ≥ 20</p> <p>Age ≤ 50 60 70 80 ≥ 90</p> <p>CrCl ≥ 100 80 60 40 20 0</p> <p>Prior Bleeding No Yes</p> <p>Score Points 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30</p> | <p>Age</p> <p>≥ 75 -2 pt</p> <p>65 to <75 -1 pt</p> <p><65 0 pt</p> <p>Cigarette smoking 1 pt</p> <p>Diabetes mellitus +1 pt</p> <p>MI at presentation +1 pt</p> <p>Prior PCI or prior MI +1 pt</p> <p>Paclitaxel-eluting stent +1 pt</p> <p>Stent diameter <3 mm +1 pt</p> <p>CHF or LVEF <30% +2 pt</p> <p>Vein graft stent +2 pt</p> |
| Score range | 0 to 100 points | -2 to 10 points |
| Decision making cut-off suggested | Score ≥ 25 → Short DAPT Score <25 → Standard/long DAPT | Score ≥ 2 → Long DAPT Score <2 → Standard DAPT |
| Calculator | www.precisedaptscore.com | www.daptstudy.org |

Prise en compte du risque hémorragique (≥ 25 ou ≤ 2)



Objectifs de la DAPT prolongée

- En termes d'ischémie: Réduction:
 - De survenue de nouveaux événements ischémiques
 - Du risque de thromboses de stents
 - De la mortalité cardiovasculaire
- Pas d'augmentation:
 - Des hémorragies
 - De la mortalité non cardiovasculaire

Données de vraie vie: prolongation de la DAPT

- Registre FAST-MI:
 - 75% des patients poursuivent la DAPT à un an et 43% à 2 ans
- Registre CRAC
 - > 50% des patients poursuivent la DAPT au-delà d'un an

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la DAPT prolongée

Les études

| Etude | n | %sca | Effet isch. | Effets saignants |
|----------------|-------|------|-------------|-------------------|
| DES LATE 2010 | 2117 | 60% | 12m = >12m | Pas de diff |
| EXCELLENT 2012 | 1443 | 50% | 6m = 12m | Pas de diff |
| PRODIGY 2012 | 2013 | 75% | 6m = 24m | Plus de saignants |
| RESET 2012 | 2117 | 55% | 3m = 12m | Pas de diff |
| OPTIMIZE 2013 | 3119 | 30% | 3m = 12m | Plus de saignants |
| ARTIC 2013 | 1259 | 25% | 12m = >12m | Plus de saignants |
| ISAR SAFE 2014 | 4005 | 40% | 6m = 12m | Plus de saignants |
| ITALIC 2014 | 2031 | 25% | 6m = 24m | Pas de diff |
| DAPT 2014 | 9961 | 26% | 30m > 12m | Plus de saignants |
| PEGASUS 2015 | 21162 | 100% | 33m > 12m | Plus de saignants |

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PEGASUS-TIMI 54: Study Design

Patients aged ≥ 50 years with a history of spontaneous MI 1–3 years prior to enrolment AND
at least one additional atherothrombosis risk factor*
(N=21,162)

Ticagrelor 90 mg bid
+ ASA 75–150 mg/day

Ticagrelor 60 mg bid
+ ASA 75–150 mg/day

Placebo
+ ASA 75–150 mg/day

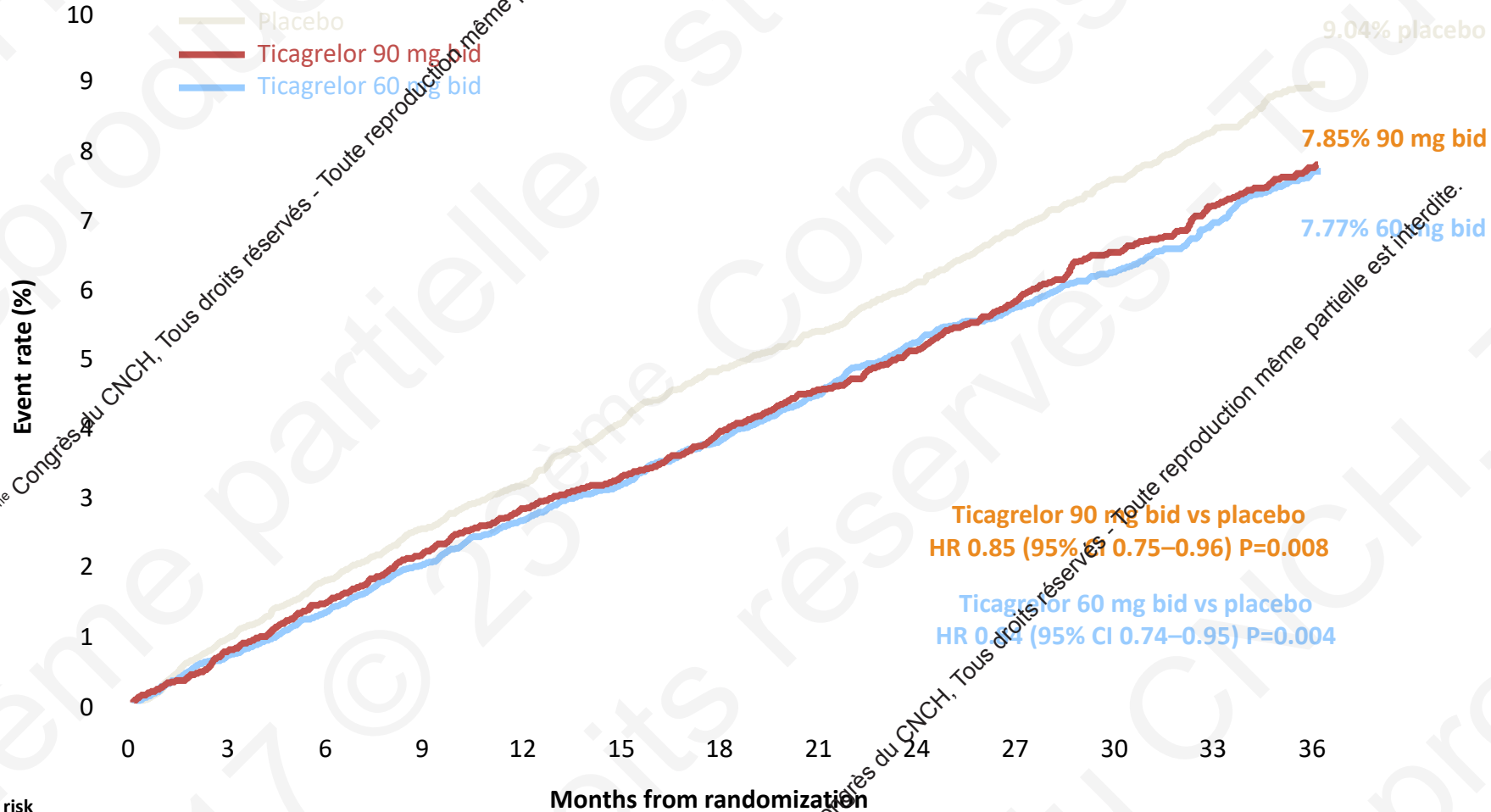
Minimum of 12 months' follow up:
Every 4 months in Year 1,
then semi-annually

Primary efficacy endpoint: CV death, MI or stroke
Primary safety endpoint: TIMI-defined major bleeding

PEGASUS-TIMI 54: Inclusion Criteria

- Age ≥ 50 years old
- History of a spontaneous MI 1–3 years prior to enrolment and one additional high-risk feature
 - Age ≥ 65 years old
 - Diabetes mellitus requiring medication
 - A second prior spontaneous MI
 - Angiographic evidence of multivessel CAD
 - Chronic, non-end-stage renal dysfunction (CrCl < 60 mL/min)
- Prescribed and tolerating ASA at the time of enrolment

PEGASUS-TIMI 54: Primary Endpoint

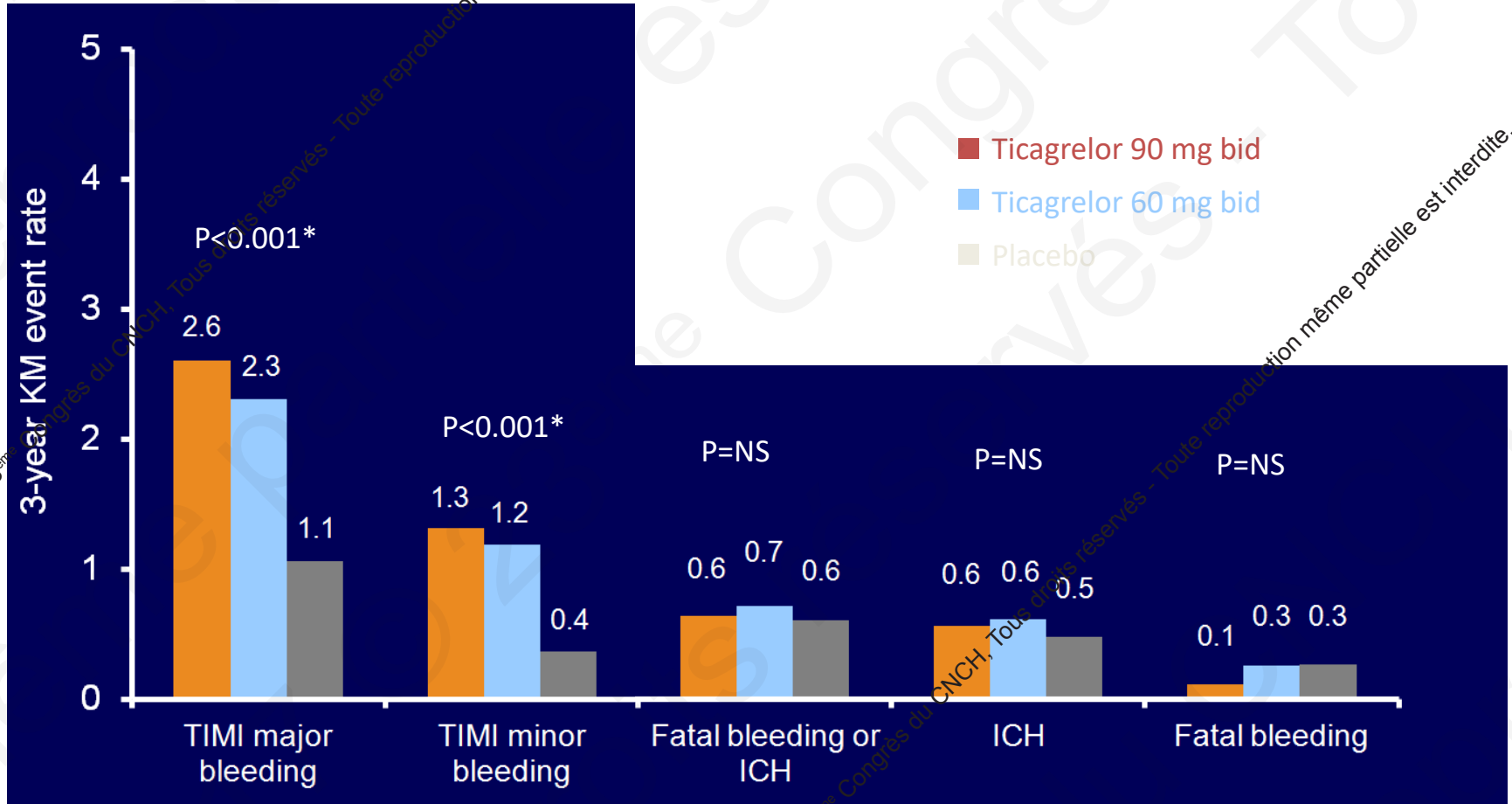


No. at risk

| | 0 | 3 | 6 | 9 | 12 | 15 | 18 | 21 | 24 | 27 | 30 | 33 | 36 |
|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Placebo | 7067 | 6979 | 6892 | 6823 | 6761 | 6681 | 6508 | 6236 | 5876 | 5157 | 4343 | 3360 | 2028 |
| 90 mg bid | 7050 | 6973 | 6899 | 6827 | 6769 | 6719 | 6550 | 6272 | 5921 | 5243 | 4401 | 3368 | 2038 |
| 60 mg bid | 7045 | 6969 | 6905 | 6842 | 6784 | 6733 | 6557 | 6270 | 5904 | 5222 | 4424 | 3392 | 2055 |

P<0.026 indicates statistical significance; CI, confidence interval; HR, hazard ratio
Bonaca MP et al. N Engl J Med 2015;372:1791-1800

PEGASUS-TIMI 54: Bleeding

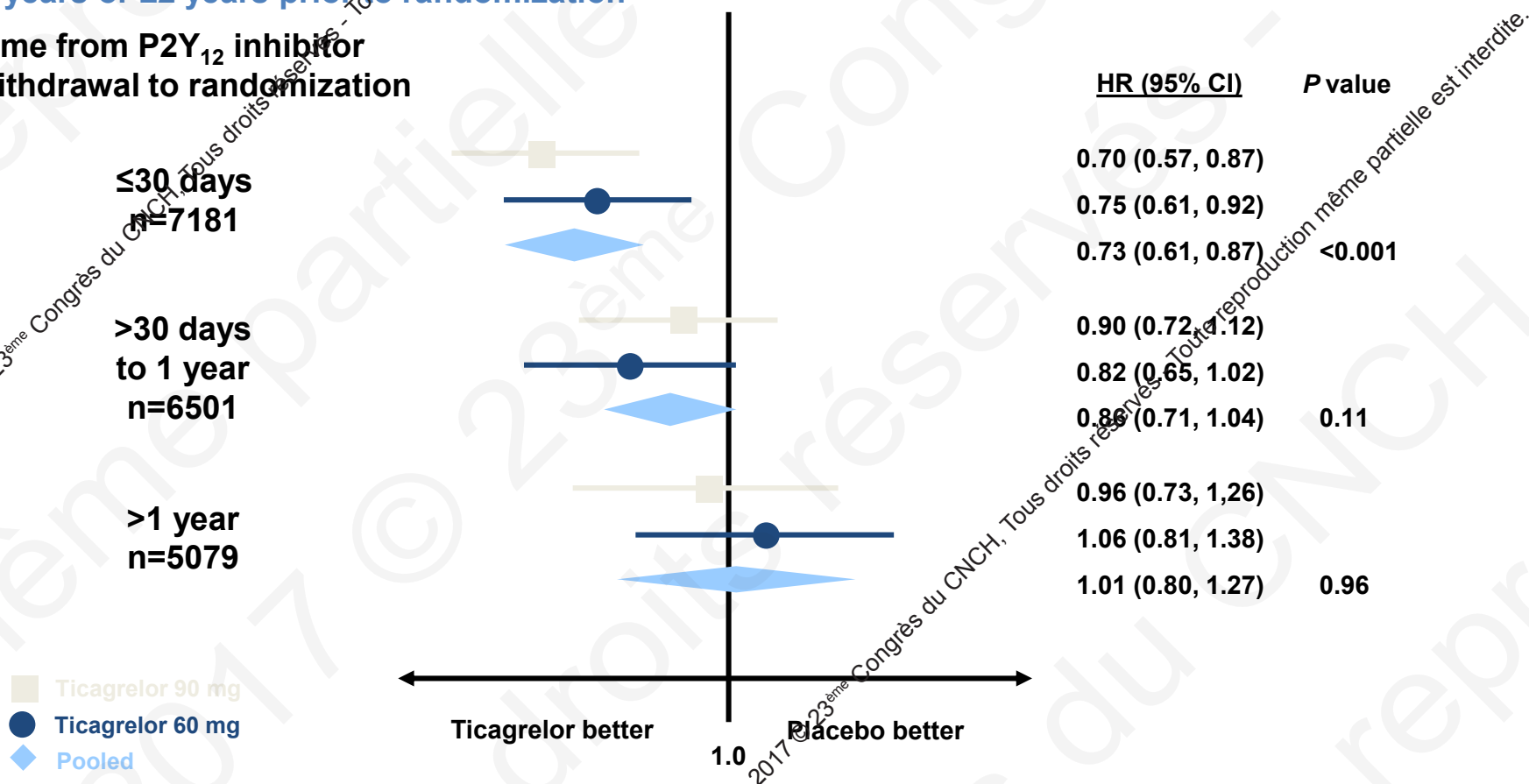


Indicates nominal P value
 Rates are presented as 3-year Kaplan-Meier estimates
 ICH, intracranial bleeding
 Bonaca MP et al. N Engl J Med 2015;372:1791-1800

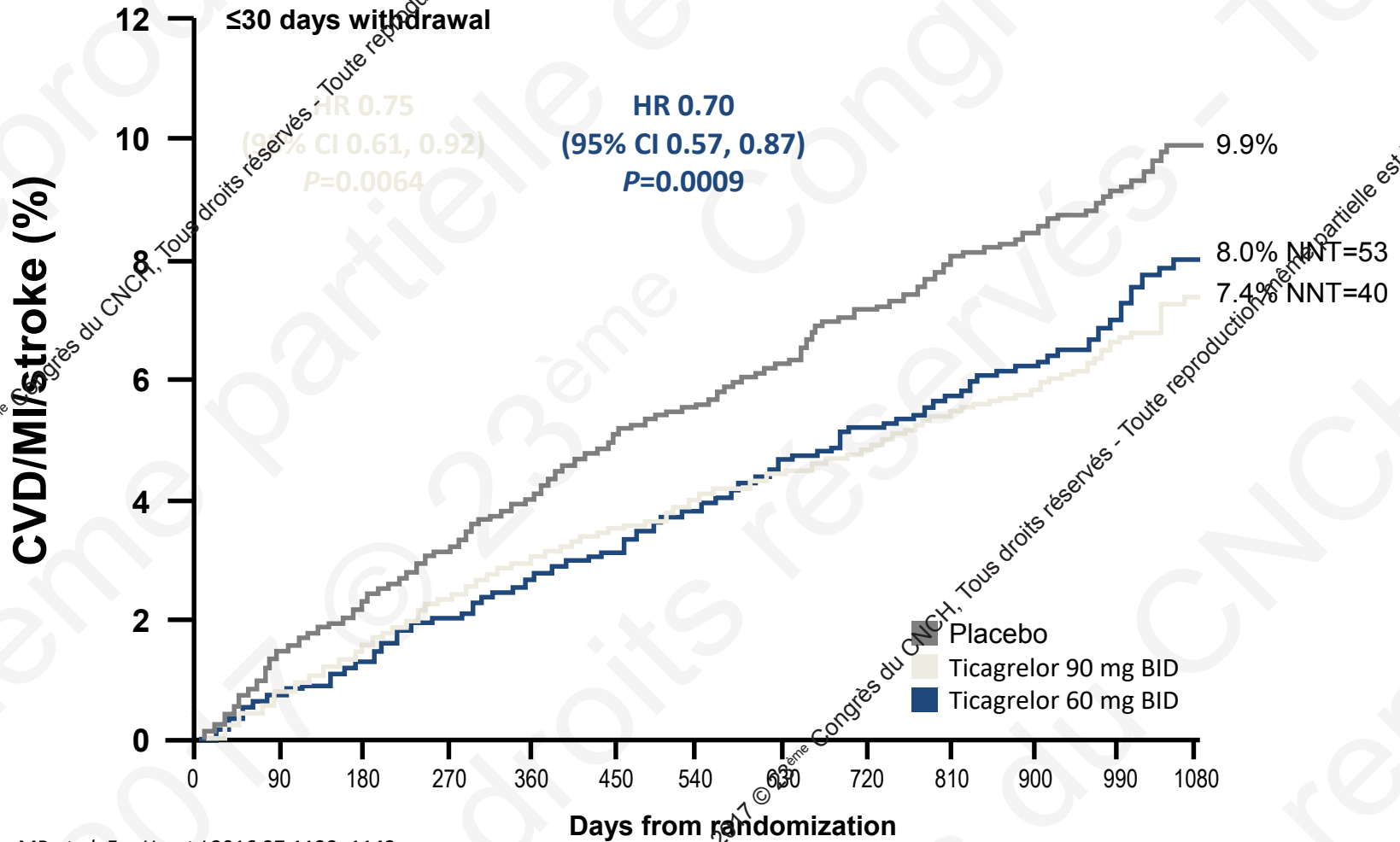
Efficacy of ticagrelor in reducing risk of atherothrombotic events declines with increasing duration of P2Y₁₂ inhibitor withdrawal

The greatest benefit was seen in patients who had discontinued P2Y₁₂ inhibition within 30 days, and the magnitude of this benefit was similar regardless whether the patient's qualifying MI was <2 years or ≥2 years prior to randomization

Time from P2Y₁₂ inhibitor withdrawal to randomization



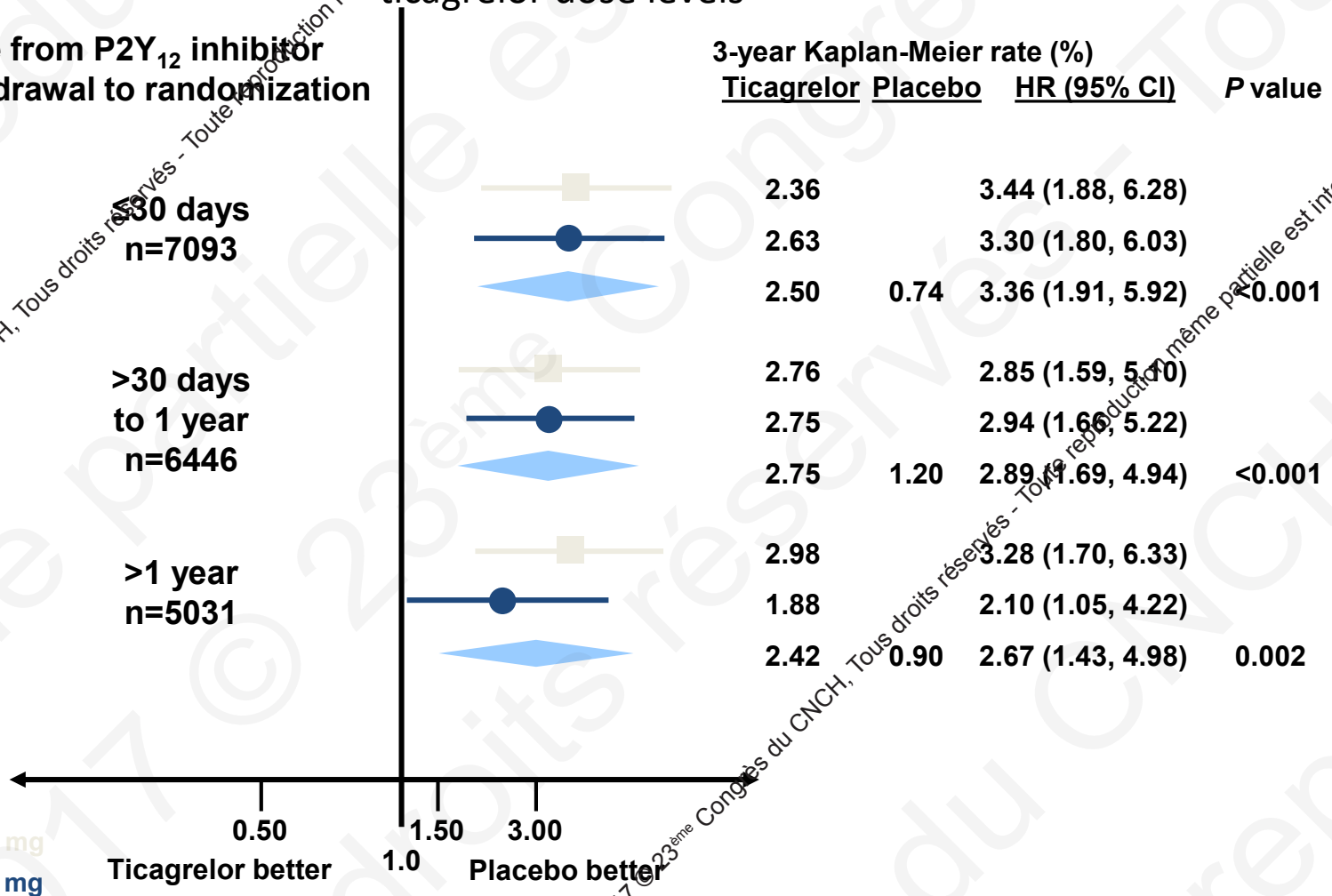
The greatest benefit with ticagrelor was seen in patients who had discontinued P2Y₁₂ inhibition within 30 days of randomization



The increases (versus placebo) in **TIMI major bleeding** were similar for the two ticagrelor dose levels

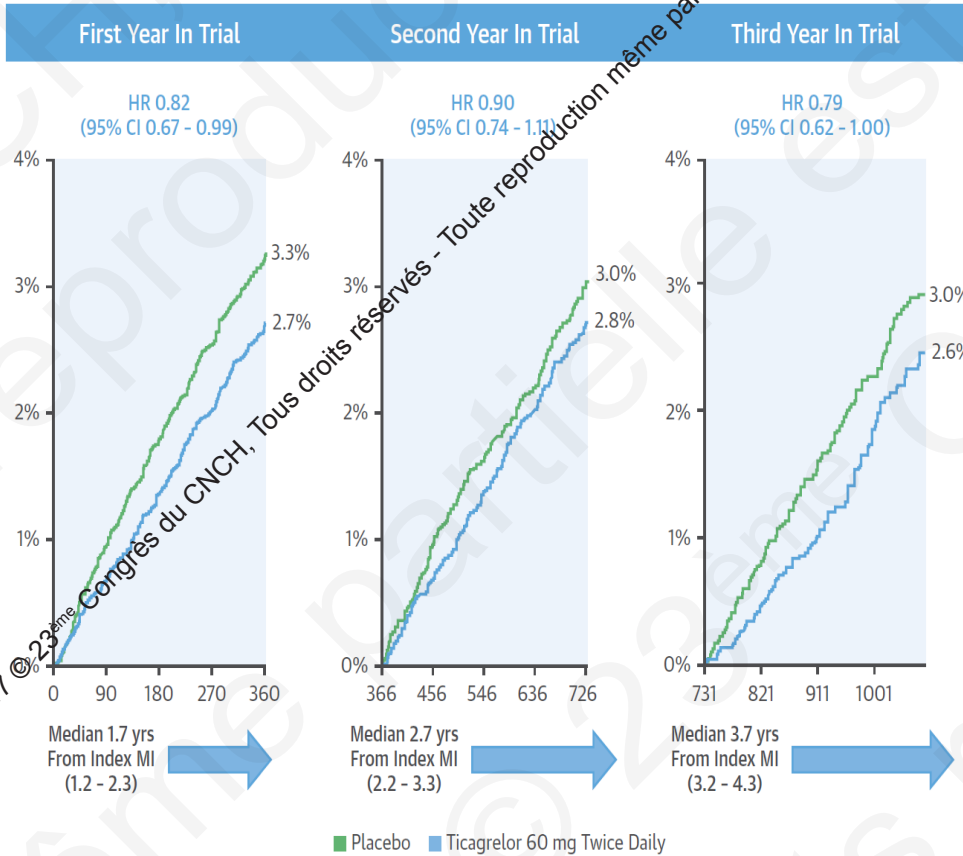
Time from P2Y₁₂ inhibitor withdrawal to randomization

3-year Kaplan-Meier rate (%)
Ticagrelor Placebo HR (95% CI) P value



■ Ticagrelor 90 mg
 ● Ticagrelor 60 mg
 ◆ Pooled

0.50 1.00 1.50 3.00
 Ticagrelor better Placebo better



Bonaca, M.P. et al. J Am Coll Cardiol. 2017;70(11):1368-75.

Although ticagrelor reduced ischemic risk in patients with prior myocardial infarction (MI), the consistency of its longer-term effects is unknown. In analyzing the rates of cardiovascular death, MI, and stroke (the primary endpoint) at yearly landmarks in the PEGASUS-TIMI 54 (Prevention of Cardiovascular Events in Patients with Prior Heart Attack Using Ticagrelor Compared to Placebo on a Background of Aspirin-Thrombolysis In Myocardial Infarction 54) trial, efficacy of ticagrelor 60 mg remained consistent over time with a trend toward less excess bleeding (safety endpoint). CI = confidence interval; HR = hazard ratio.

TABLE 2 Safety Outcomes

| Year From Randomization | Placebo | Ticagrelor 60 mg | HR (95% CI) |
|-------------------------|---------|------------------|-------------------|
| First year | 6,996 | 6,958 | |
| TIMI major | 0.27 | 0.86 | 3.22 (1.86-5.57) |
| TIMI major or minor | 0.38 | 1.30 | 3.48 (2.20-5.50) |
| TIMI minor | 0.11 | 0.44 | 4.10 (1.79-9.42) |
| Intracranial hemorrhage | 0.10 | 0.15 | 1.61 (0.57-4.45) |
| Fatal bleeding | 0.03 | 0.11 | 3.24 (0.67-16.06) |
| Second year | 5,987 | 5,461 | |
| TIMI major | 0.42 | 0.86 | 2.07 (1.25-3.43) |
| TIMI major or minor | 0.55 | 1.13 | 2.10 (1.35-3.27) |
| TIMI minor | 0.13 | 0.29 | 2.36 (0.96-5.78) |
| Intracranial hemorrhage | 0.18 | 0.18 | 0.99 (0.40-2.44) |
| Fatal bleeding | 0.13 | 0.04 | 0.31 (0.07-1.51) |
| Third year | 4,938 | 4,447 | |
| TIMI major | 0.37 | 0.60 | 1.65 (0.84-3.24) |
| TIMI major or minor | 0.50 | 1.03 | 2.02 (1.14-3.58) |
| TIMI minor | 0.13 | 0.45 | 3.56 (1.16-10.92) |
| Intracranial hemorrhage | 0.20 | 0.28 | 1.57 (0.60-4.11) |
| Fatal bleeding | 0.11 | 0.11 | 1.09 (0.22-5.40) |

Values are n or Kaplan-Meier %, unless otherwise indicated.

TIMI = Thrombolysis In Myocardial Infarction; other abbreviations as in Table 1.

Bonaca, M.P. et al. J Am Coll Cardiol. 2017;70(11):1368-75.

RECOMMANDATIONS ESC 2017

What is new in the 2017 ESC focussed update on DAPT?

Change in recommendations

Before → 2017

- Pretreatment with P2Y₁₂ inhibitors when PCI is planned
- Liberal use of PPI to mitigate GI bleeding risk
- Elective surgery requiring discontinuation of the P2Y₁₂ inhibitor after 1 month
- Ticagrelor interruption of 3 days prior elective surgery
- Dual therapy as an alternative to triple therapy when bleeding risk outweighs the ischaemic risk
- Discontinuation of antiplatelet treatment in patients treated with OAC should be considered at 12 months.
- Routine platelet function testing to adjust therapy

New recommendations 2017

- The occurrence of actionable bleeding while on DAPT should prompt reconsideration of type and duration of DAPT regimen.
 - The decision for DAPT duration should be dynamic and reassessed during the course of the initially selected DAPT regimen.
 - Discontinuation of P2Y₁₂ inhibitor therapy after 6 months when stenting ACS patients with PRECISE-DAPT ≥ 25
 - 6-month DAPT regimen in patients with SCAD treated with drug-coated balloon
 - Early administration of ticagrelor/ clopidogrel in NSTEMI-ACS with invasive approach
 - Ticagrelor 60 mg b.i.d preferred over other oral P2Y₁₂ inhibitors for DAPT continuation >12 months in post-MI
- I ■ IIA ■ IIB ■ III

New/ revised concepts

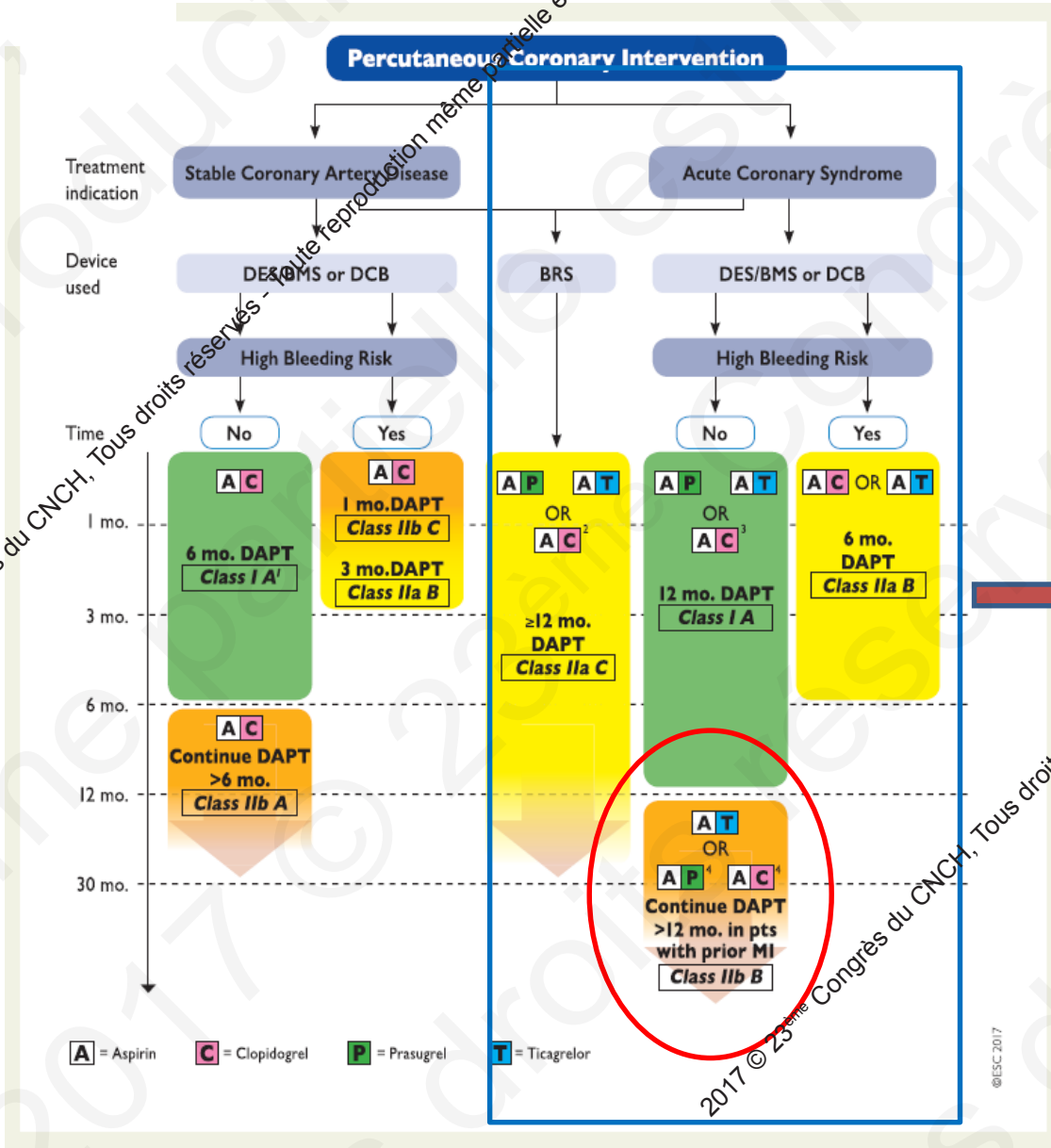
- Metallic stent and DAPT duration
- Switch between P2Y₁₂ inhibitors
 - Risk scores to guide DAPT duration**
 - PRECISE DAPT score
 - DAPT score
- Specific profiling
 - Definition of complex PCI
 - Unfavourable profile for OAC and APT
 - Gender considerations and special populations
- DAPT duration without stenting
 - Medical management
 - CABG or cardiac surgery
- Anticoagulation and DAPT
 - Acute and chronic setting
 - Dosing regimen

ACS = acute coronary syndrome; APT = anti-platelet therapy; CABG = coronary artery bypass graft; DAPT = dual antiplatelet therapy; MI = myocardial infarction; NSTEMI = Non-ST-segment elevation; OAC = oral anti-coagulant; PCI = percutaneous coronary intervention; PRECISE-DAPT = PREDicting bleeding Complications in patients undergoing Stent implantation and subsequent Dual Anti Platelet Therapy; Stable CAD = stable coronary artery disease.

Use of risk scores as guidance for the duration of dual antiplatelet therapy

| Recommendations | Class | Level |
|---|------------|----------|
| The use of risk scores designed to evaluate the benefits and risks of different DAPT durations may be considered. | IIb | A |

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Risque hémorragique

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What is new in 2017 Guidelines on AMI-STEMI (continued)

2017 NEW RECOMMENDATIONS

- Additional lipid lowering therapy if LDL >1.8 mmol/L (70 mg/dL) despite on maximum tolerated statins. **IMPROVE-IT, FOURIER**
- Complete revascularization during index primary PCI in STEMI patients in shock. Expert opinion

- Cangrelor if P2Y₁₂ inhibitors have not been given. **CHAMPION**
- Switch to potent P2Y₁₂ inhibitors 48 hours after fibrinolysis. Expert opinion
- Extend Ticagrelor up to 36 months in high-risk patients. **PEGASUS-TIMI 54**
- Use of polypill to increase adherence. **FOCUS**

- Routine use of deferred stenting. **DANAMI3-DEFER**



Dual antiplatelet therapy duration in patients with acute coronary syndrome treated with percutaneous coronary intervention (continued)

In patients with ACS who have tolerated DAPT without a bleeding complication, continuation of DAPT for longer than 12 months may be considered.^{26,139}

IIb

A

In patients with MI and high ischaemic risk^c who have tolerated DAPT without a bleeding complication, ticagrelor 60 mg *b.i.d.* for longer than 12 months on top of aspirin may be preferred over clopidogrel or prasugrel.^{29,115,142}

IIb

B

ACS = acute coronary syndrome; *b.i.d.* = *bis in die*; DAPT = dual antiplatelet therapy; MI = myocardial infarction; PRECISE-DAPT = Predicting bleeding Complications In patients undergoing Stent implantation and subsequent Dual Anti Platelet Therapy.

^aClass of recommendation.

^bLevel of evidence.

^cDefined as ≥ 50 years of age, and one or more of the following additional high-risk features: age of 65 years or older, diabetes mellitus requiring medication, a second prior spontaneous myocardial infarction, multivessel coronary artery disease, or chronic renal dysfunction, defined as an estimated creatinine clearance < 60 mL/min.

These recommendations refer to stents that are supported by large-scale randomized trials with clinical endpoint evaluation leading to unconditional CE mark, as detailed in Byrne *et al.*¹³⁴

conclusion

- Évaluation du **risque résiduel**:

- Point critique de prise en charge
- Place des scores de risque : PRECISE-DAPT (< 12 mois) et DAPT (> 12 mois)
- Intégration des critères PEGASUS pour évaluer la durée de la DAPT++
- Lutter contre le mauvais contrôle des facteurs de risque, le niveau de prévention secondaire insuffisant et la diffusion de la maladie athéromateuse

- Stratégie thérapeutique plus agressive:

- statines à fortes doses,
- DAPT prolongée

- Questions en suspens: monothérapie plus puissante que l'aspirine (à quelles doses?)

Tous droits réservés - Toute reproduction même partielle est interdite.

Merci pour votre attention



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