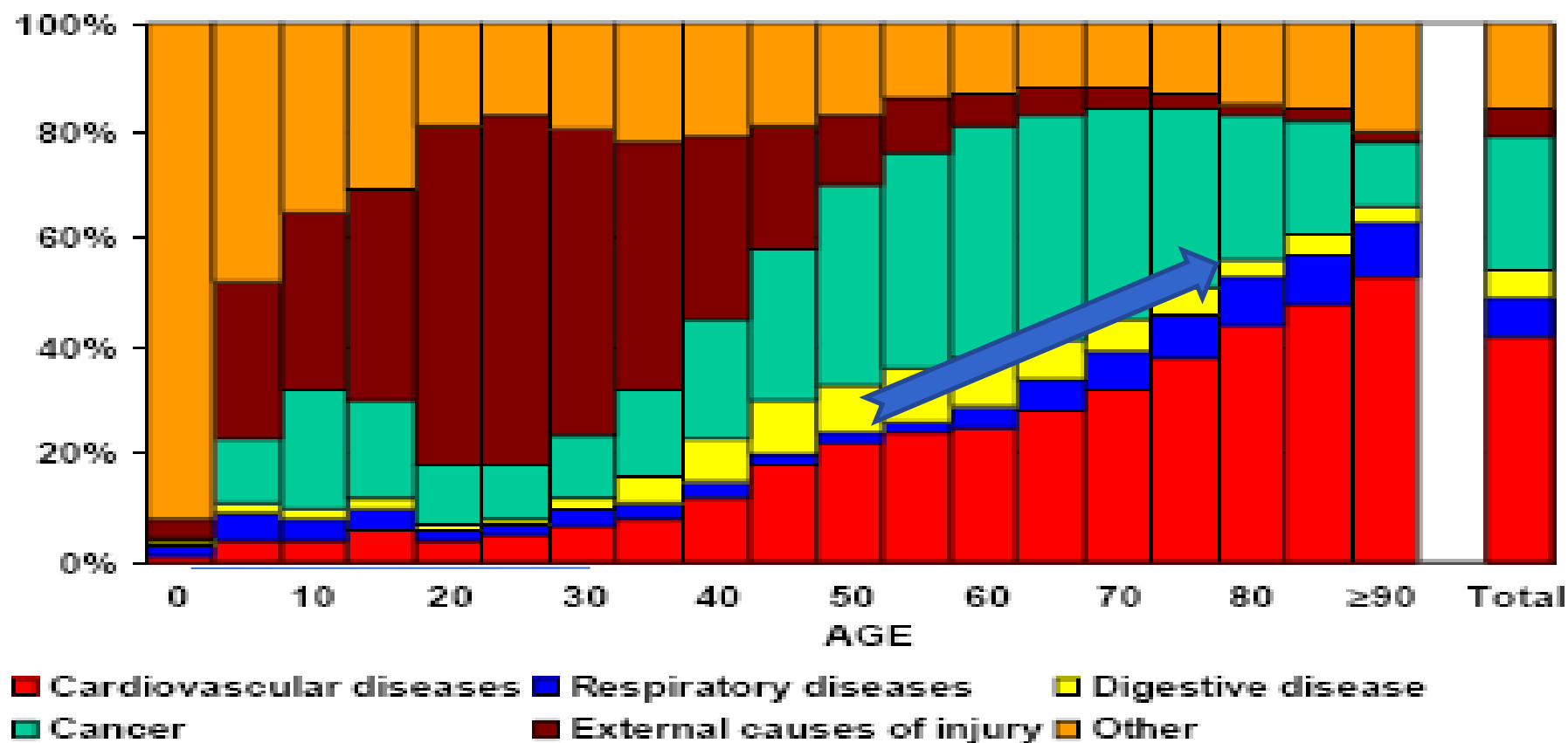


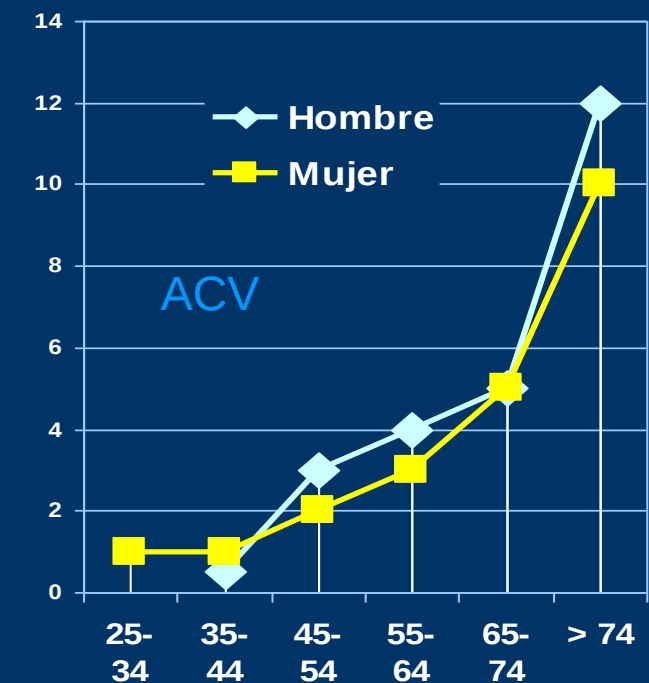
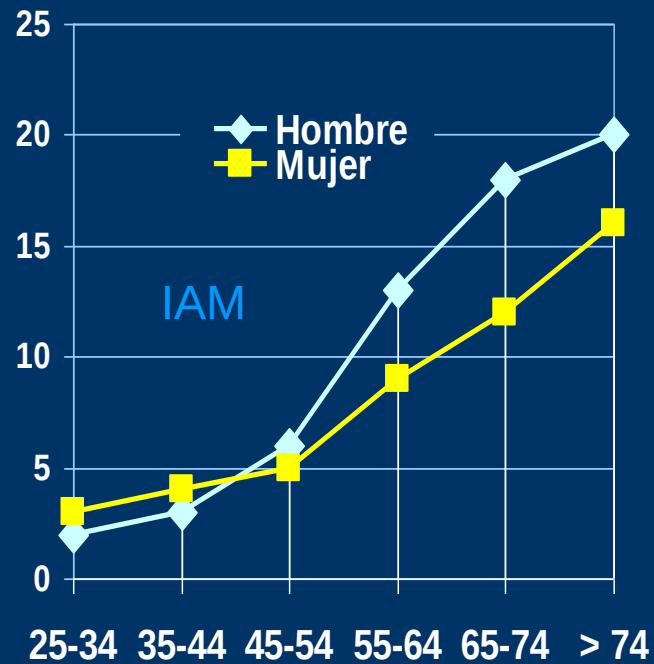
INFARTO AGUDO DE MIOCARDIO IAM -- SCACEST

Dr. A. HIRSCHSON PRADO Mtsac
Prof. Titular y Miembro Académico USAL
Ex Director Asoc. Residencia UBA-SAC
Ex Director de Investigación y Consejo IC SAC
Ex Jefe Dto de Medicina Htal RIVADAVIA

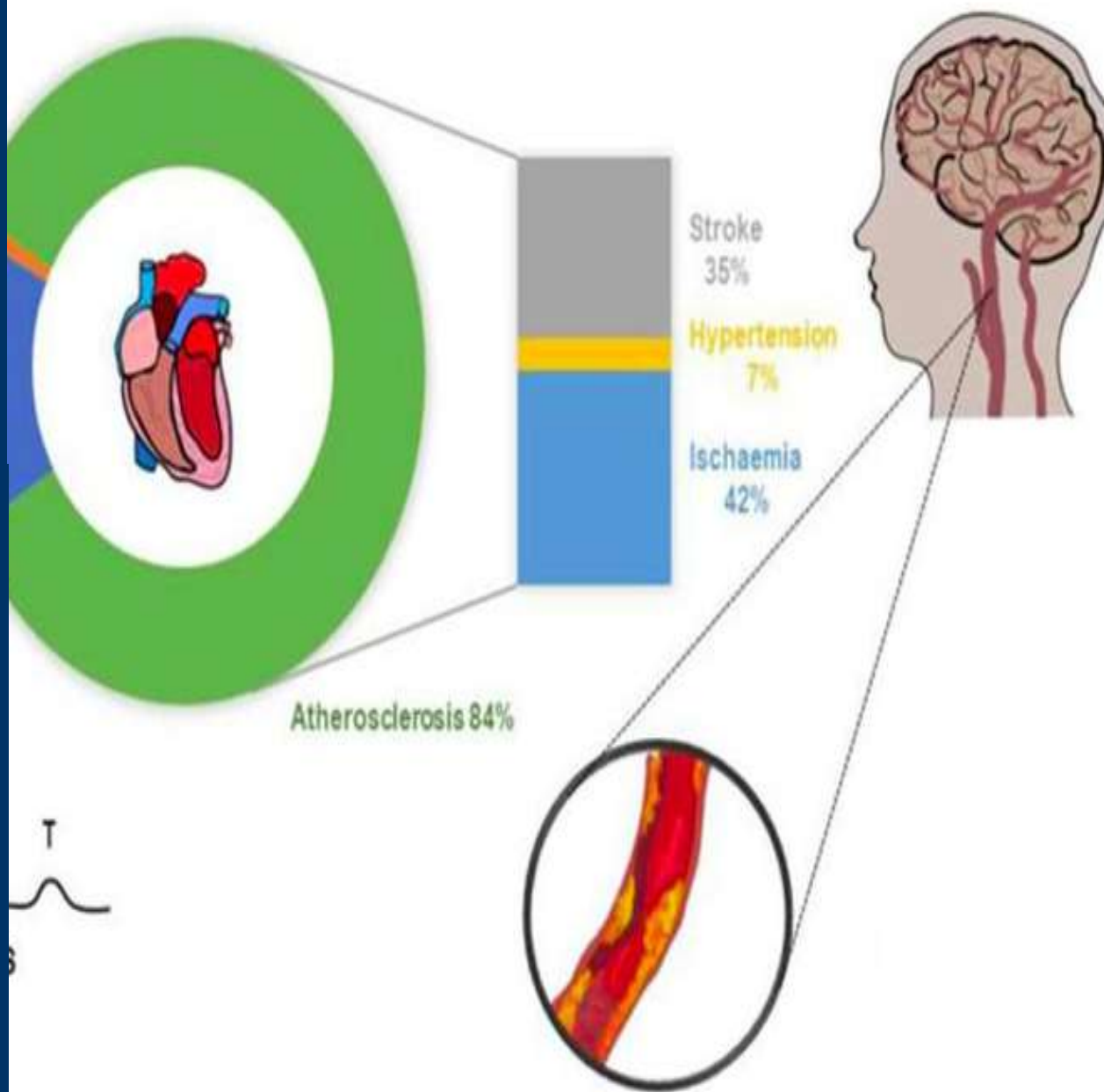
Causas de Muerte /EDAD

Major causes of death by age



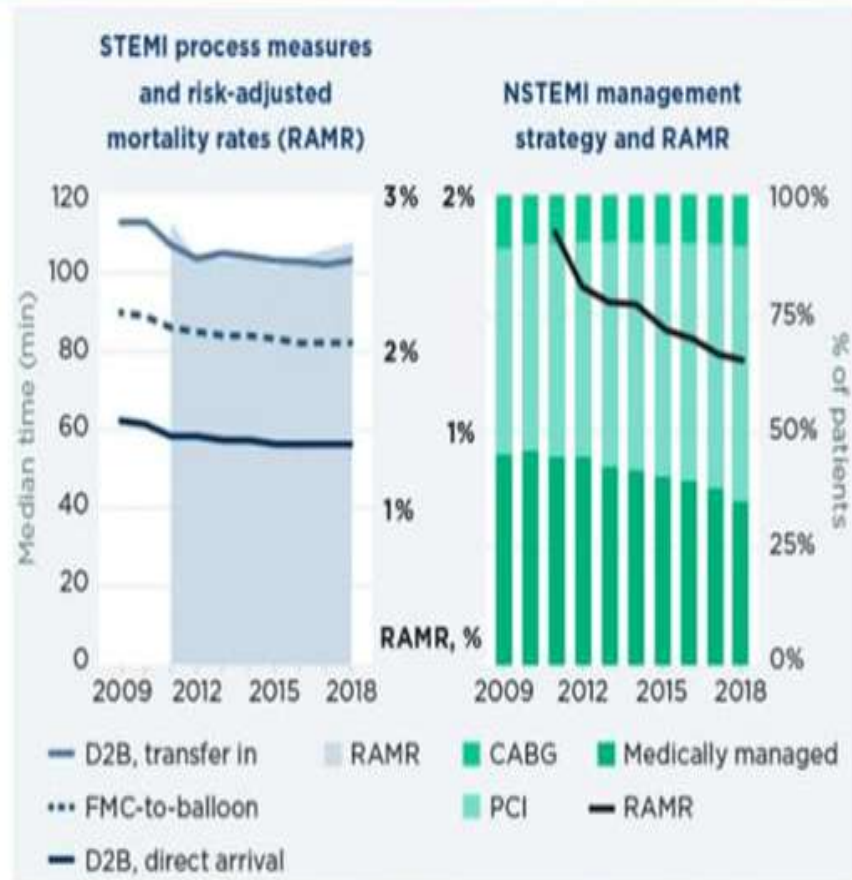


DEATH BY CARDIOVASCULAR DISEASES

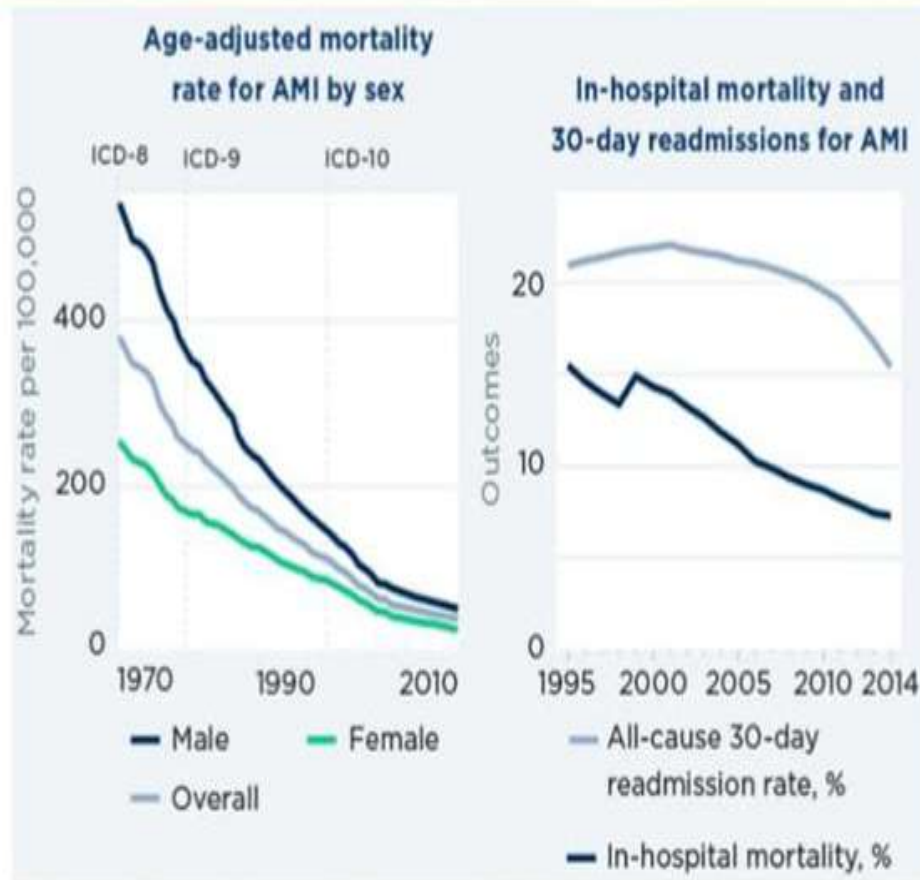


AMI Quality of Care and Mortality in the US

2026 JACC Statistics



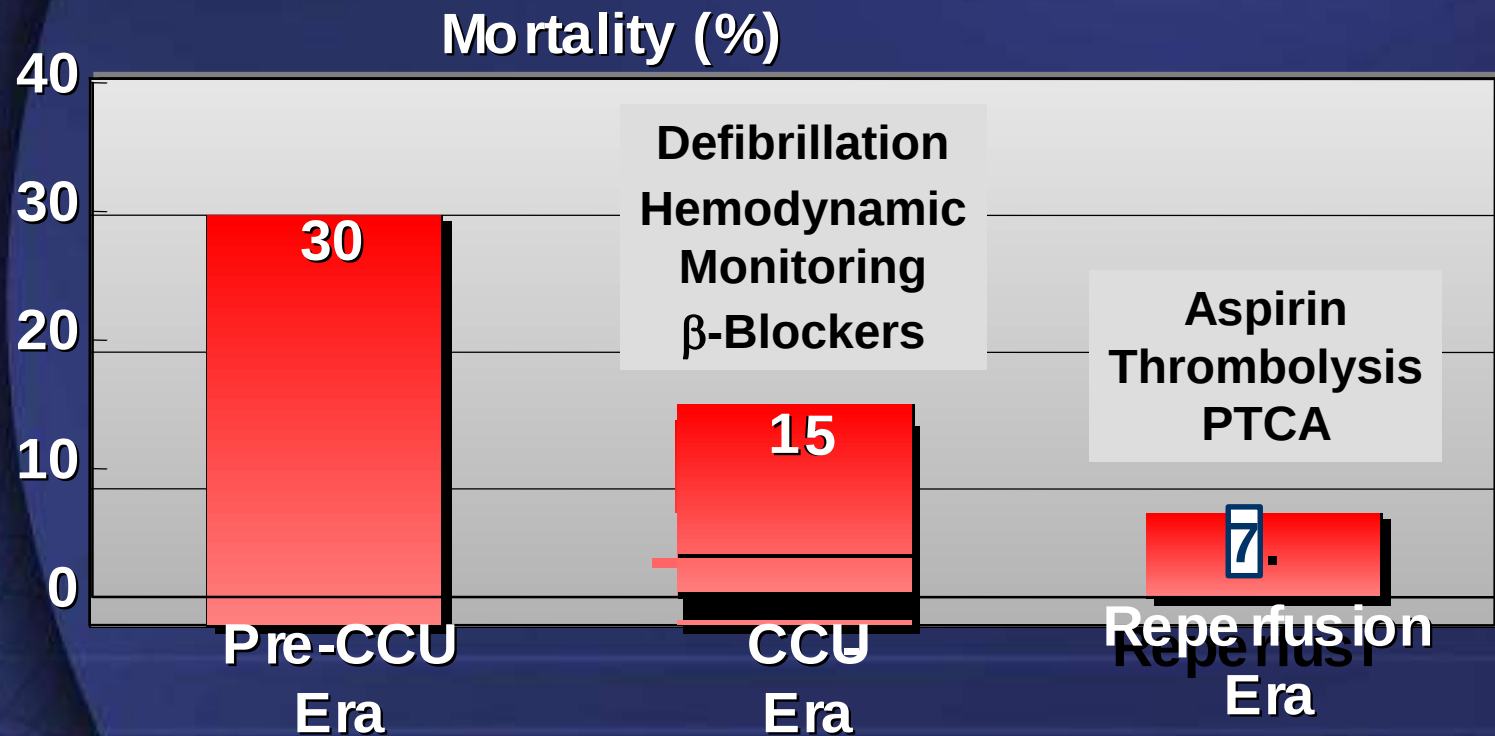
Between 2010 and 2017, the proportion of patients receiving **defect-free AMI care** increased across all sociodemographic groups. But nearly **1 in 4** patients still did not receive optimal comprehensive care by 2017



Age-adjusted mortality rates declined sharply between 1968 and 2019. In-hospital mortality and **30-day readmissions** among Medicare beneficiaries **declined** markedly from 1995 to 2014

INFARTO DE MIOCARDIO

Impacto de la UCO en la mortalidad



Adaptado de Antman, Braunwald In: Braunwald ed. Heart Disease p 1184.

Hospitalizaciones en Argentina SCACEST

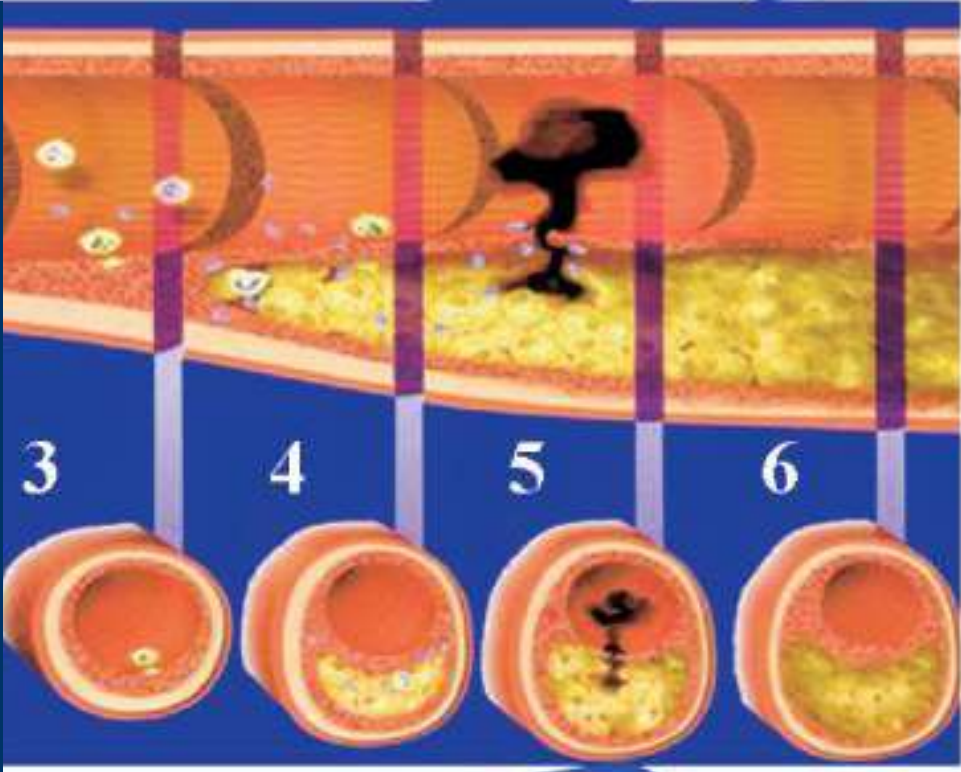
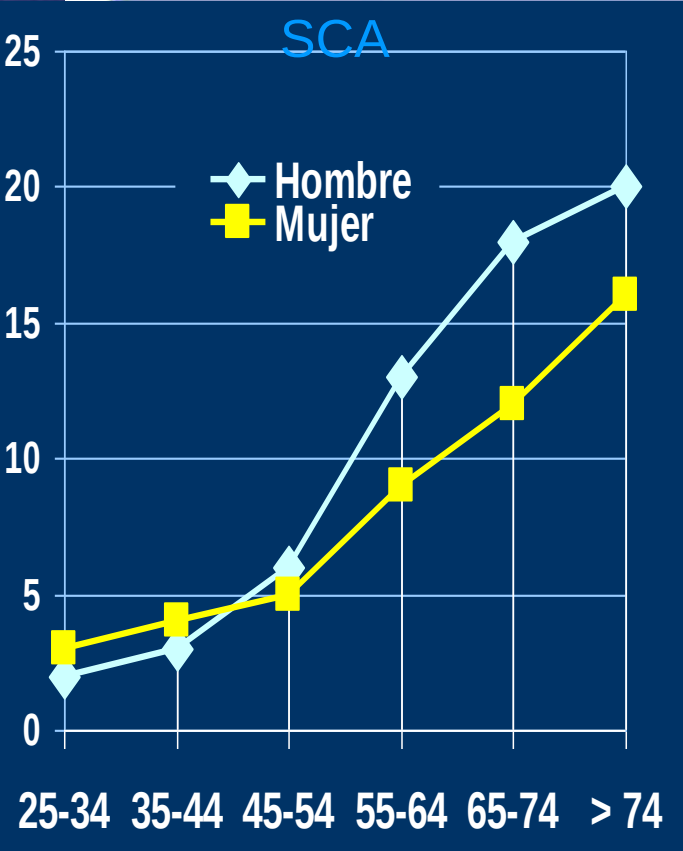
- ➡ 2021 Argentina .Aprox. 40 - 45.000 hospitalizaciones por año por IAM
- 10.8 casos por cada 10.000 habitantes

Acute Coronary Syndromes AMI

Onset of NSTEMI-ACS	Hospital Management
-Initial recognition and management in the ED by first responders or ED personnel -Risk stratification -Immediate management	-Medication -Conservative versus invasive strategy -Special groups -Preparation for discharge

Management Prior to NSTEMI-ACS

Secondary Prevention/ Long-Term Management



Acute Coronary Syndromes

NSTEMI

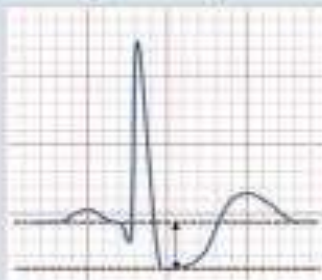
Angiographic Findings



Partially occlusive thrombus

Electrocardiographic Changes

ST-segment depression



T-wave inversion



Nonspecific or no electrocardiographic changes may instead be seen

Biomarker Changes
(cardiac troponin)

Unstable
angina

-

NSTEMI

+

STEMI



Completely occlusive thrombus

ST-segment elevation



ST-elevation in ≥ 2 contiguous leads on standard 12-lead ECG (or ST-elevation on posterior lead ECG)

+

(Might be - if short time from symptom onset)

**Stress Circunferencial
HTA**

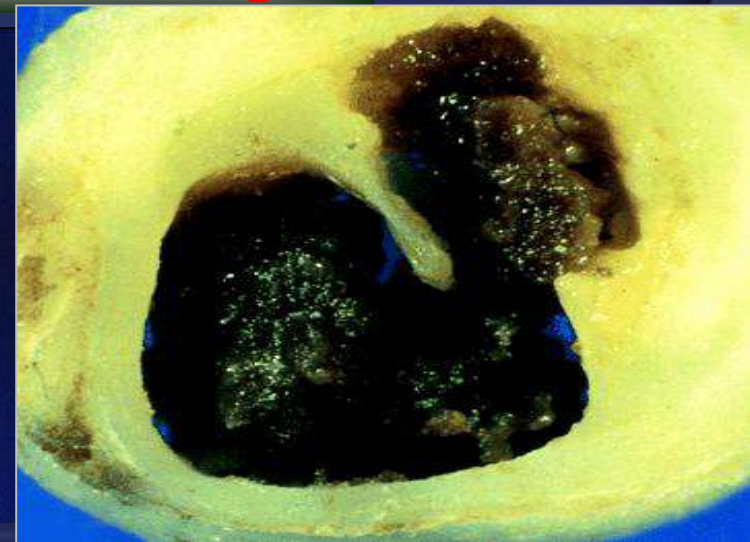
**TBQ
HTA
DBT
↑LDL
Genetica**

**Inmunocompl
Infecciones?
Inflamación**

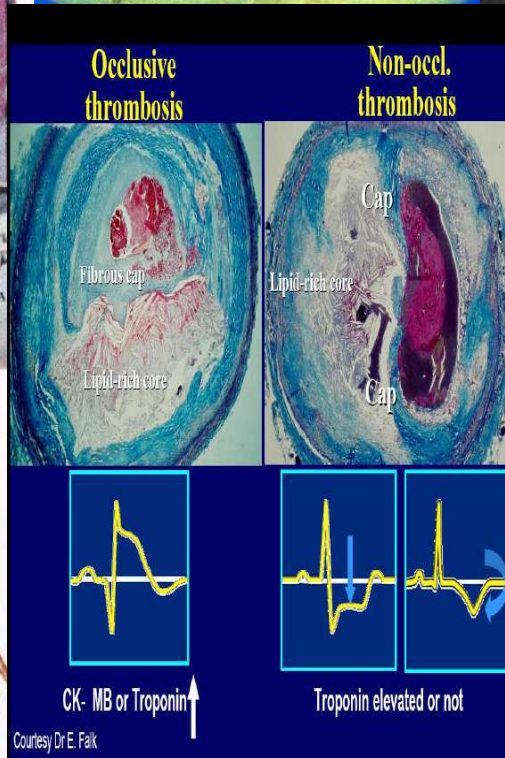
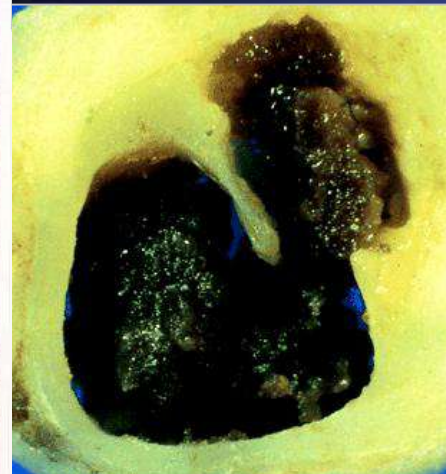
Injuria endotelial mínima

**Acumulación de lípidos
Migración de monocitos/macrófagos**

Placa Vulnerable

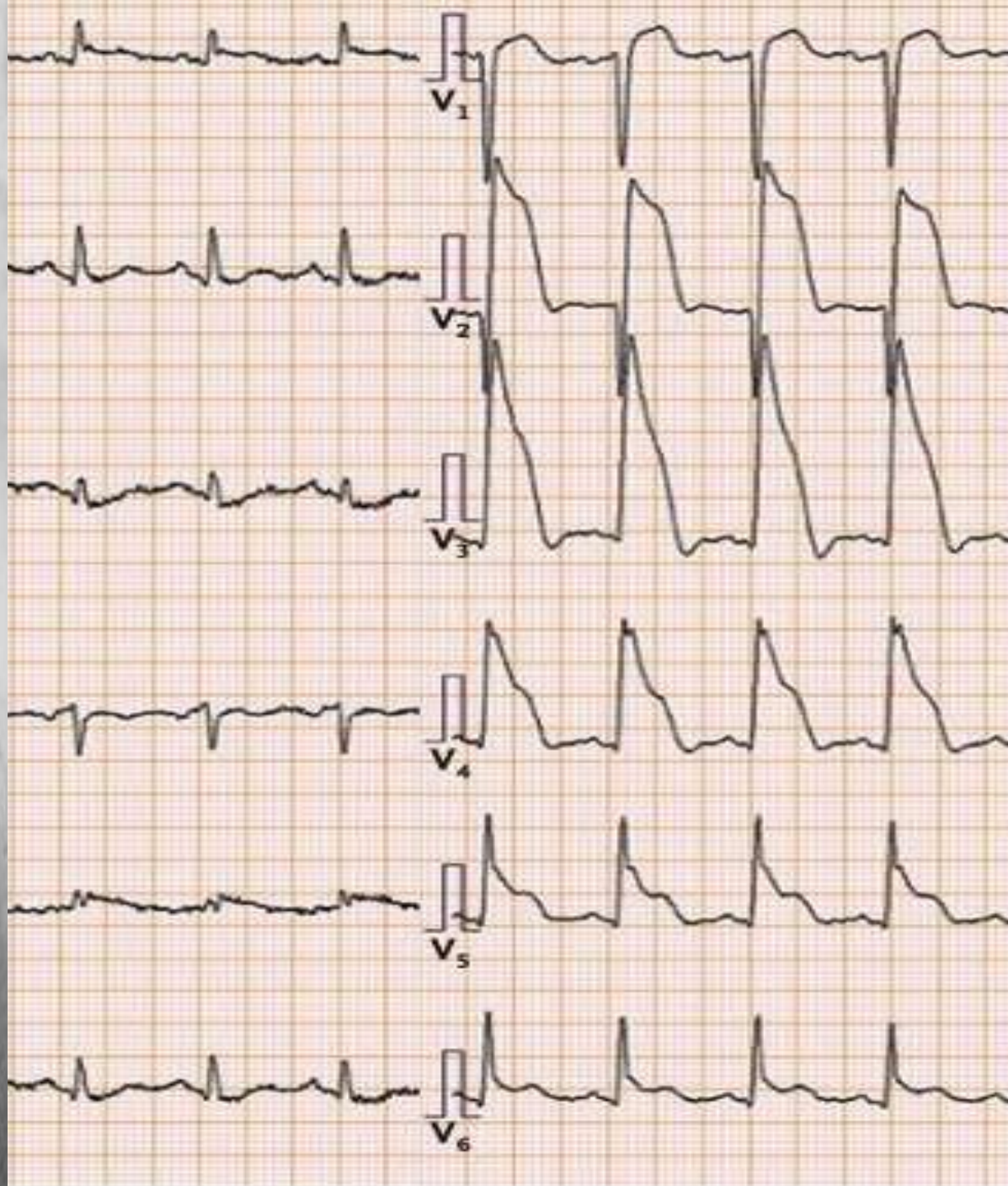


Infarto Agudo de Miocardio

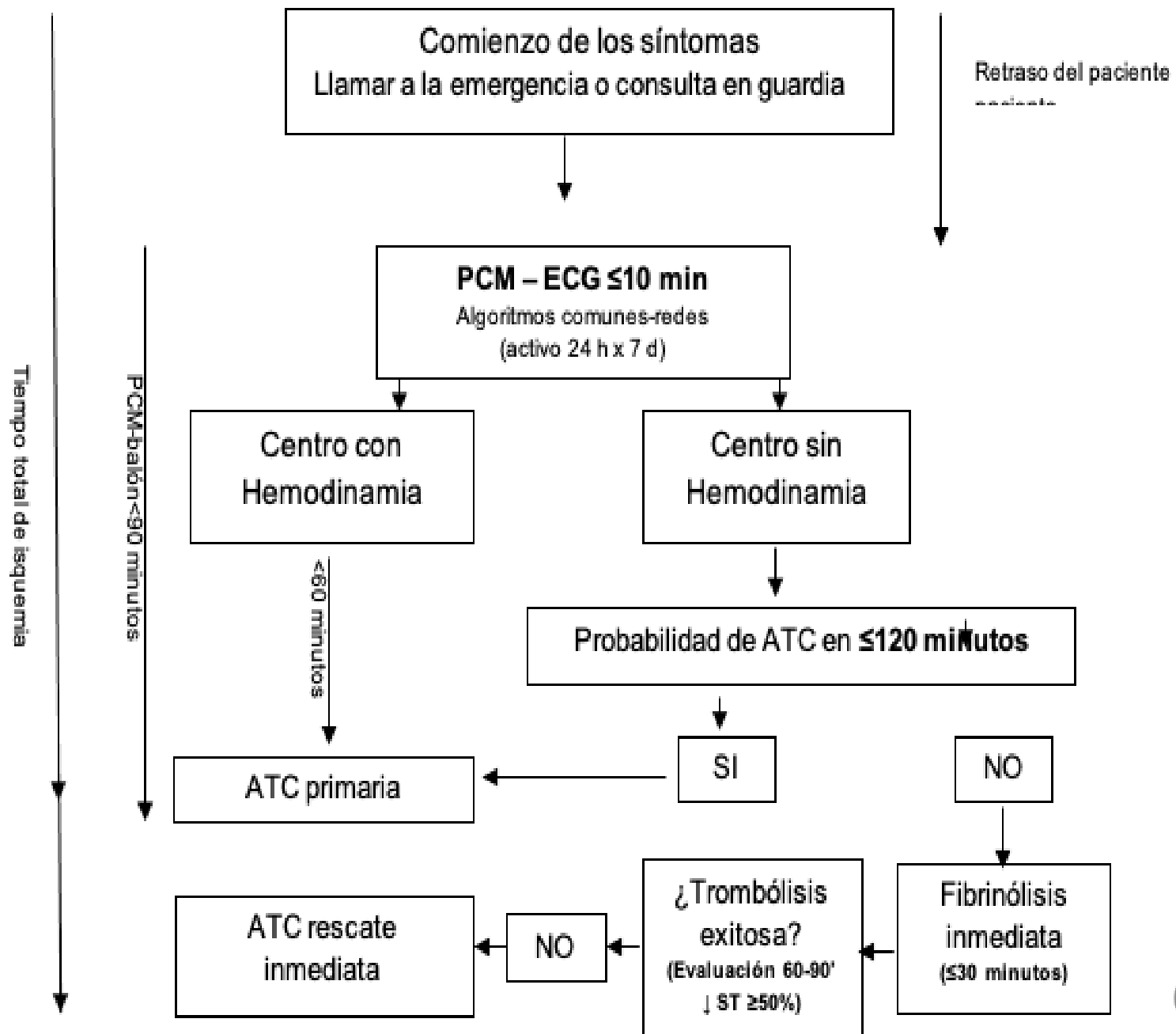


CCG
IAM

DA



ESTRATEGIA DE REPERFUSION



4 - DEFINICION IAM (Tipo1)

Daño miocárdico + evidencia de isquemia

Criterios para diagnosticar IAM

- #Síntomas=> isquemia miocárdica-**Angor Disnea**
- #-Aumento y descenso de cTn con al menos 1 valor > percentil 99 .
- #-Cambios nuevos en el ECG isquémicos: ST, onda T, BRI nuevo ,Ondas Q patológicas nuevas
- #-Imagen con Pérdida de miocardio viable o alteración de la motilidad→causa isquémica
- #-Angiografía: Trombo coronario identificado

**PRO**

Poor operationalization limits clinical uptake and utility.

Type 2 MI - Encompasses heterogeneous entities, significant potential for misdiagnosis, and inaccurate MI categorization - management implications.

No cutoff to discriminate ischaemic/other causes of myocardial injury and necrosis.

Prognostic significance of Type 4a and 5 MI remains uncertain. Arbitrary threshold values for cTn elevation in Type 4a and 5 MI.

**FLAWED**

Should be substantially modified

Myocardial infarction types

Type 1 MI



Occlusive thrombus

Atherothrombotic



Non-occlusive thrombus

Type 2 MI

Supply - demand mismatch

With fixed obstructive CAD



Without fixed obstructive CAD



Coronary embolism



Spontaneous coronary artery dissection



Vasospasm or microvascular dysfunction



Type 3 MI

Cardiac death



Type 4 MI

Post-PCI



Type 5 MI

Post-CABG

**CON**

General acceptance by the clinical community.

Current Type 1 MI (atherothrombotic) aligns with management with PCI or fibrinolysis.

Type 2 MI category helps focus on causes of supply-demand mismatch. Moving non-atherothrombotic aetiologies out of Type 2 MI may add confusion.

Distinguishing Types 1 and 2 MI informs therapies and clinical trials.

Operationalization - ICD codes based on UDMI.

**USEFUL**

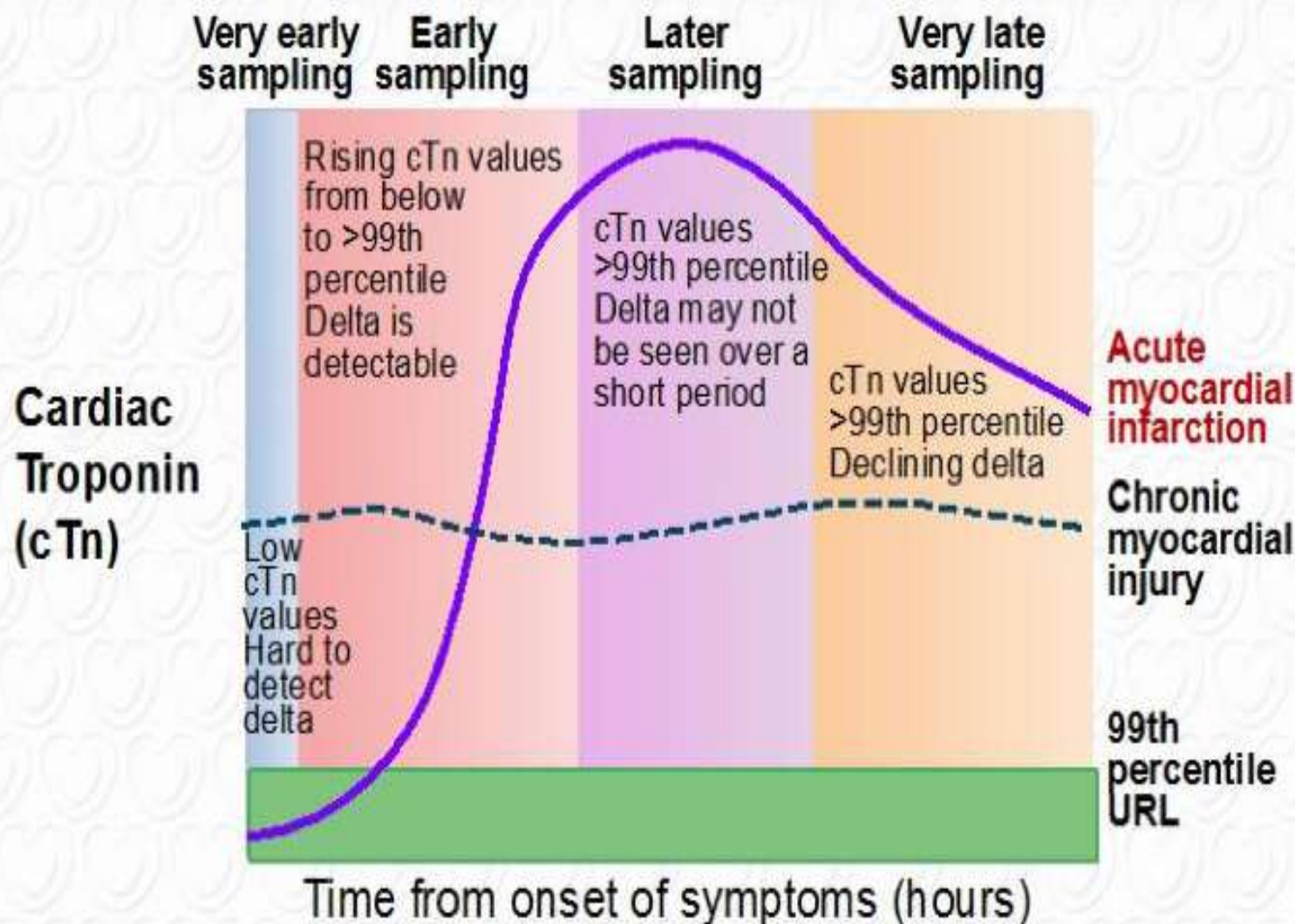
Retain and modify slightly

Conceptual Illustration of Troponin Kinetics after Acute Myocardial Injury and Infarction

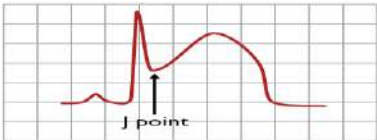
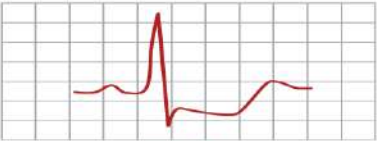
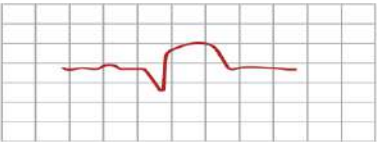
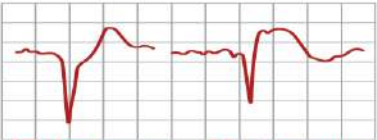
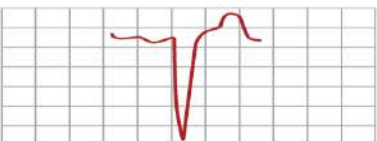
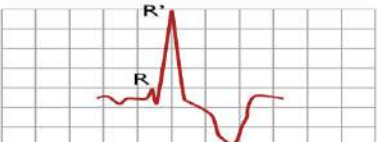


ESC

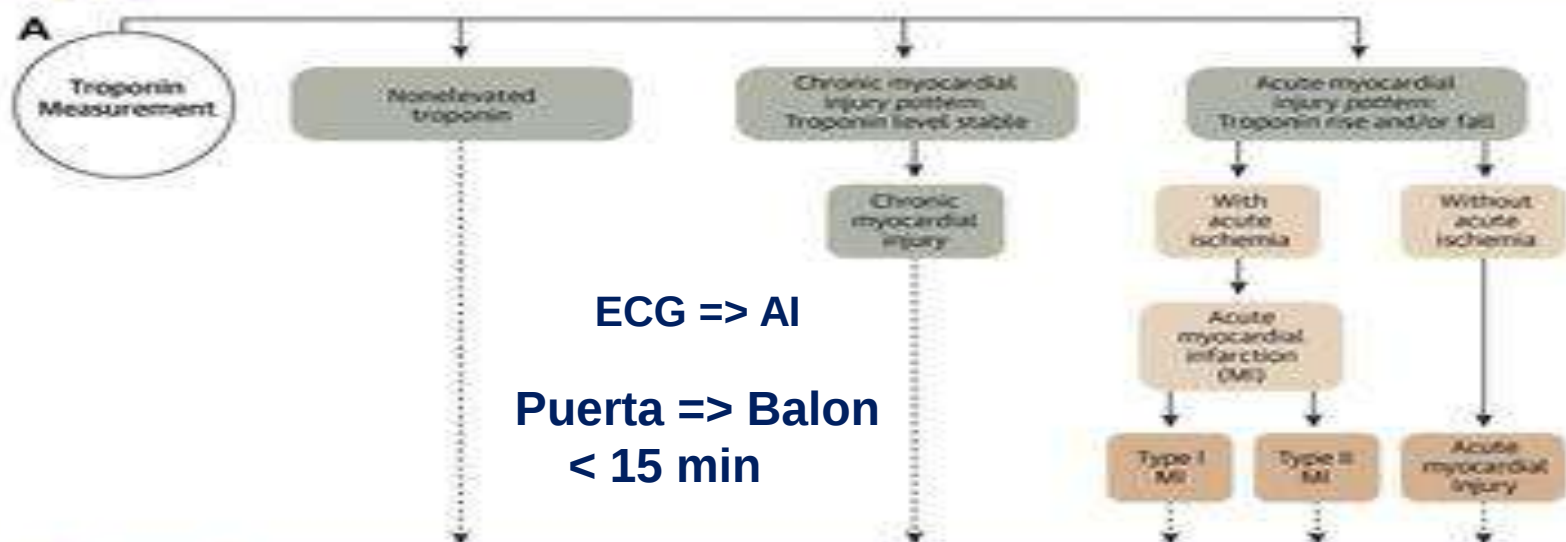
European Society
of Cardiology



ECG IAM REQUIERE RAPIDA REPERFUSION

ECG pattern	Criteria	Signifying	Figure
i STEMI	New ST-elevation at the J-point in ≥ 2 contiguous leads ^a ≥ 2.5 mm in men <40 years, ≥ 2 mm in men ≥ 40 years, or ≥ 1.5 mm in women regardless of age in leads V2–V3 and/or ≥ 1 mm in the other leads (in the absence of LV hypertrophy or left bundle branch block) ^a Including V3R and V4R	Ongoing acute coronary artery occlusion	
ii Posterior STEMI	ST-segment depression in leads V1–V3, especially when the terminal T-wave is positive (ST-segment elevation equivalent), and concomitant ST-segment elevation ≥ 0.5 mm recorded in leads V7–V9	Posterior STEMI	
iii LCx occlusion/ right ventricular MI	ST-segment elevation in V7–V9 and V3R and V4R, respectively	Left circumflex (LCX) artery occlusion or right ventricular MI	
iv Multivessel ischaemia/ left main obstruction	ST depression ≥ 1 mm in six or more surface leads (inferolateral ST depression), coupled with ST-segment elevation in aVR and/or V1	Multivessel ischaemia or left main coronary artery obstruction, particularly if the patient presents with haemodynamic compromise	
v Left bundle branch block/ paced rhythm	QRS duration greater than 120 ms Absence of Q wave in leads I, V5 and V6 Monomorphic R wave in I, V5 and V6 ST and T wave displacement opposite to the major deflection of the QRS complex	Patients with a high clinical suspicion of ongoing myocardial ischaemia should be managed in a similar way to STEMI patients	
vi Right bundle branch block	QRS duration greater than 120 ms rsR' "bunny ear" pattern in the anterior precordial leads (leads V1–V3) Slurred S waves in leads I, aVL and frequently V5 and V6	Patients with a high clinical suspicion of ongoing myocardial ischaemia should be managed in a similar way to STEMI patients	

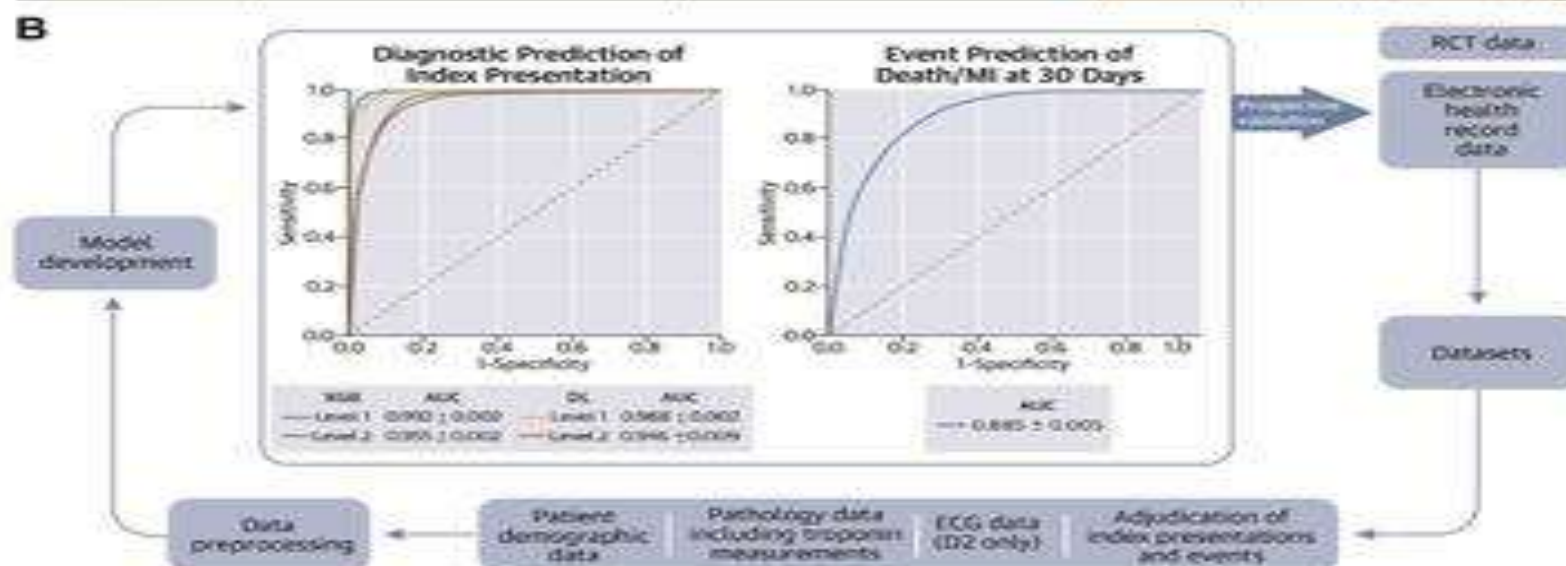
CENTRAL ILLUSTRATION: Machine Learning Models for Phenotyping and Prognostication of Myocardial Infarction and Injury in Suspected Acute Coronary Syndrome



ECG => AI

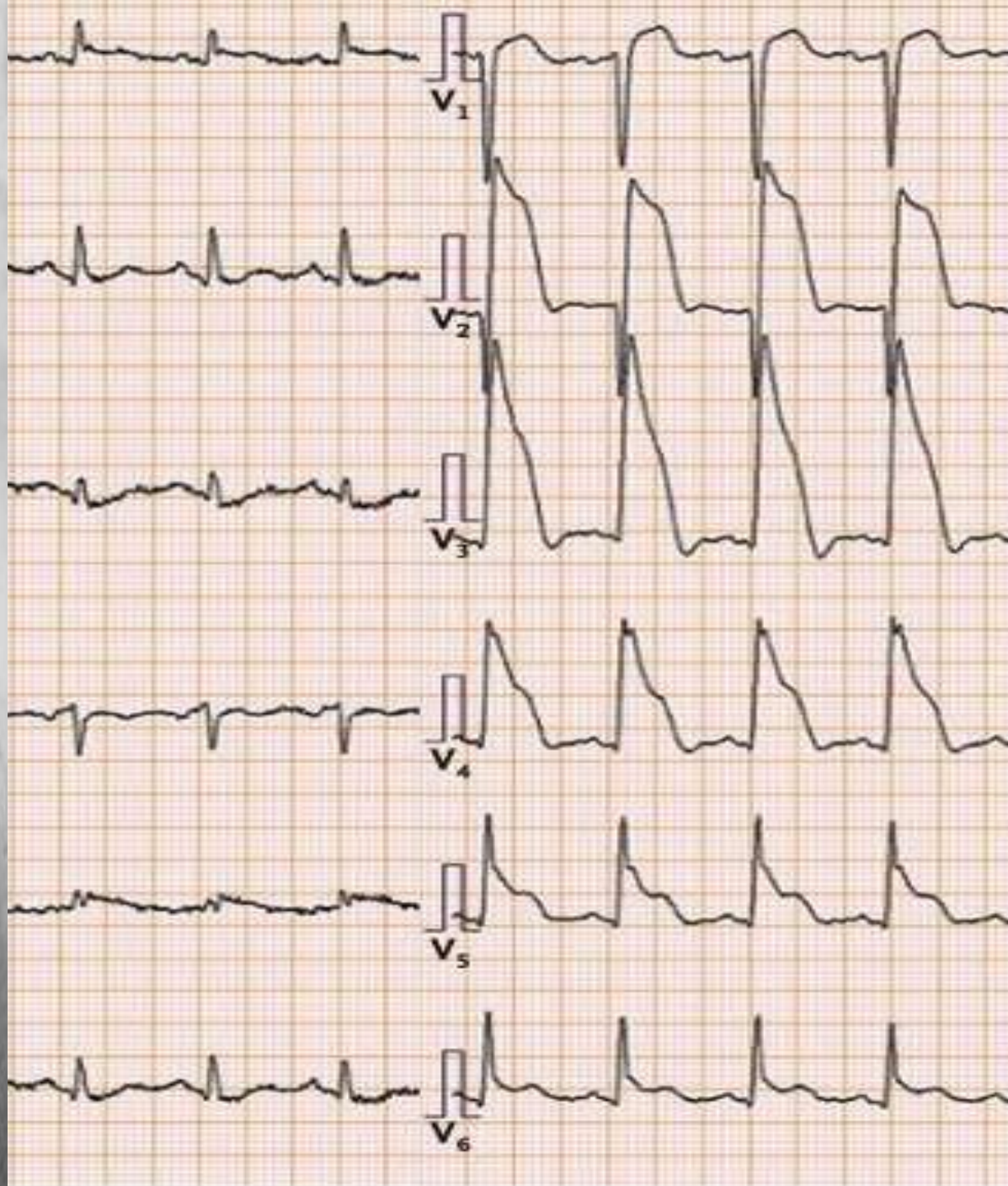
Puerta => Balon
< 15 min

XGB	Level 1	Nonelevated troponin/chronic myocardial injury pattern		Acute myocardial injury pattern		
	Level 2			Type I MI	Type II MI	Acute nonischemic myocardial injury
DL		Nonelevated troponin	Chronic myocardial injury	Type I MI	Type II MI	Acute nonischemic myocardial injury



CCG
IAM

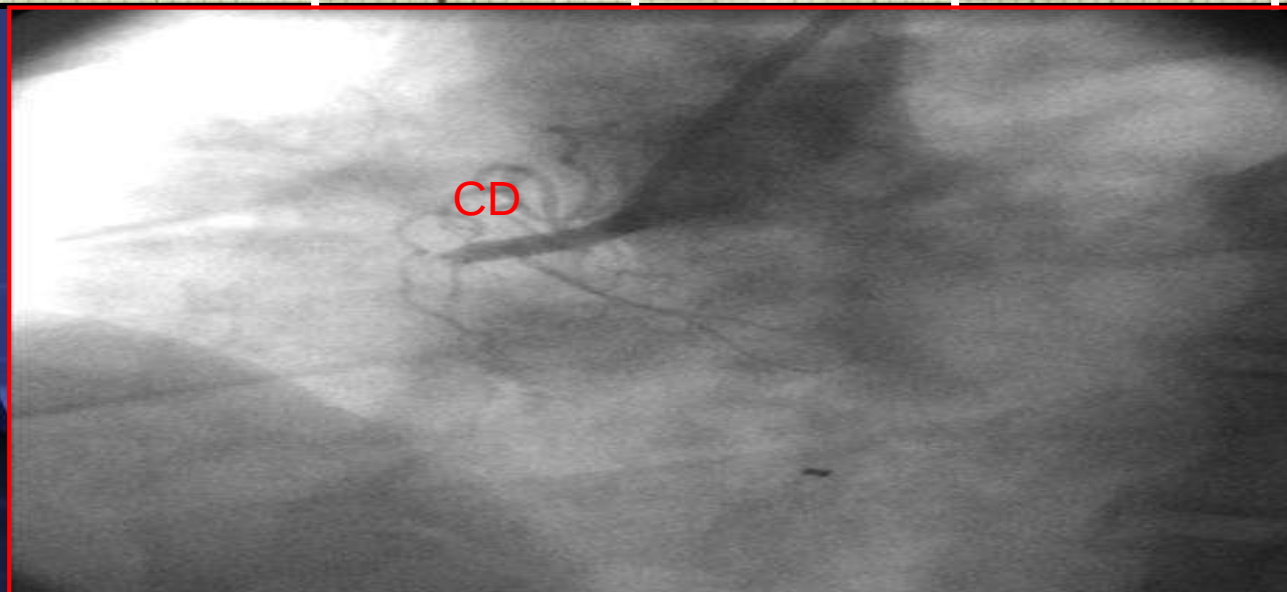
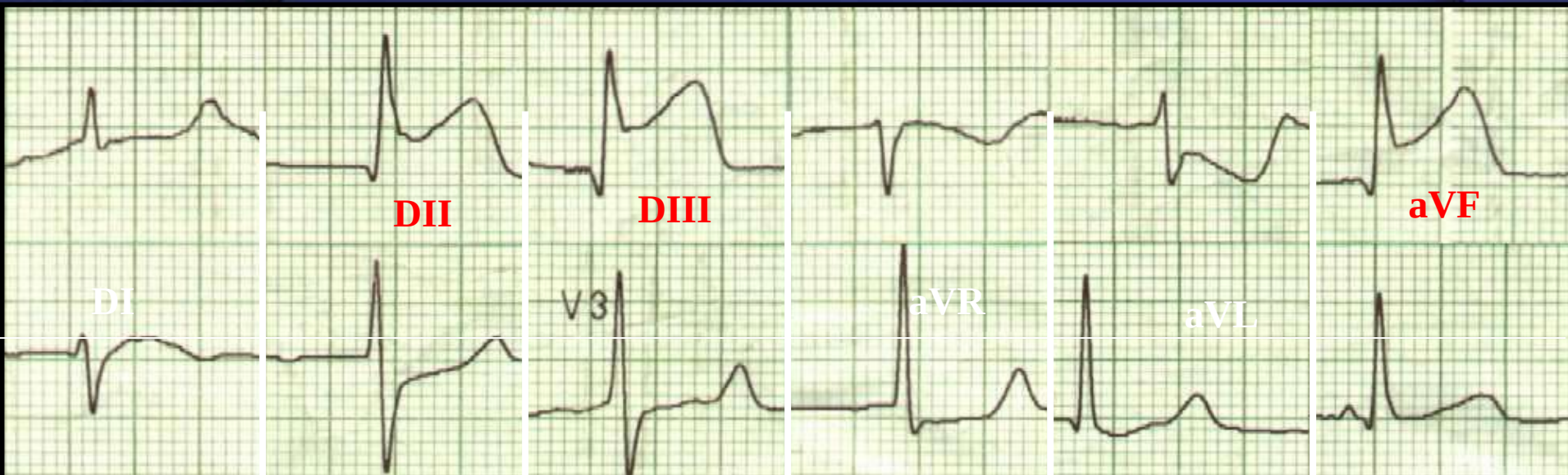
DA



Infarto de Miocardio



IAM Inferior - Inferoposterior



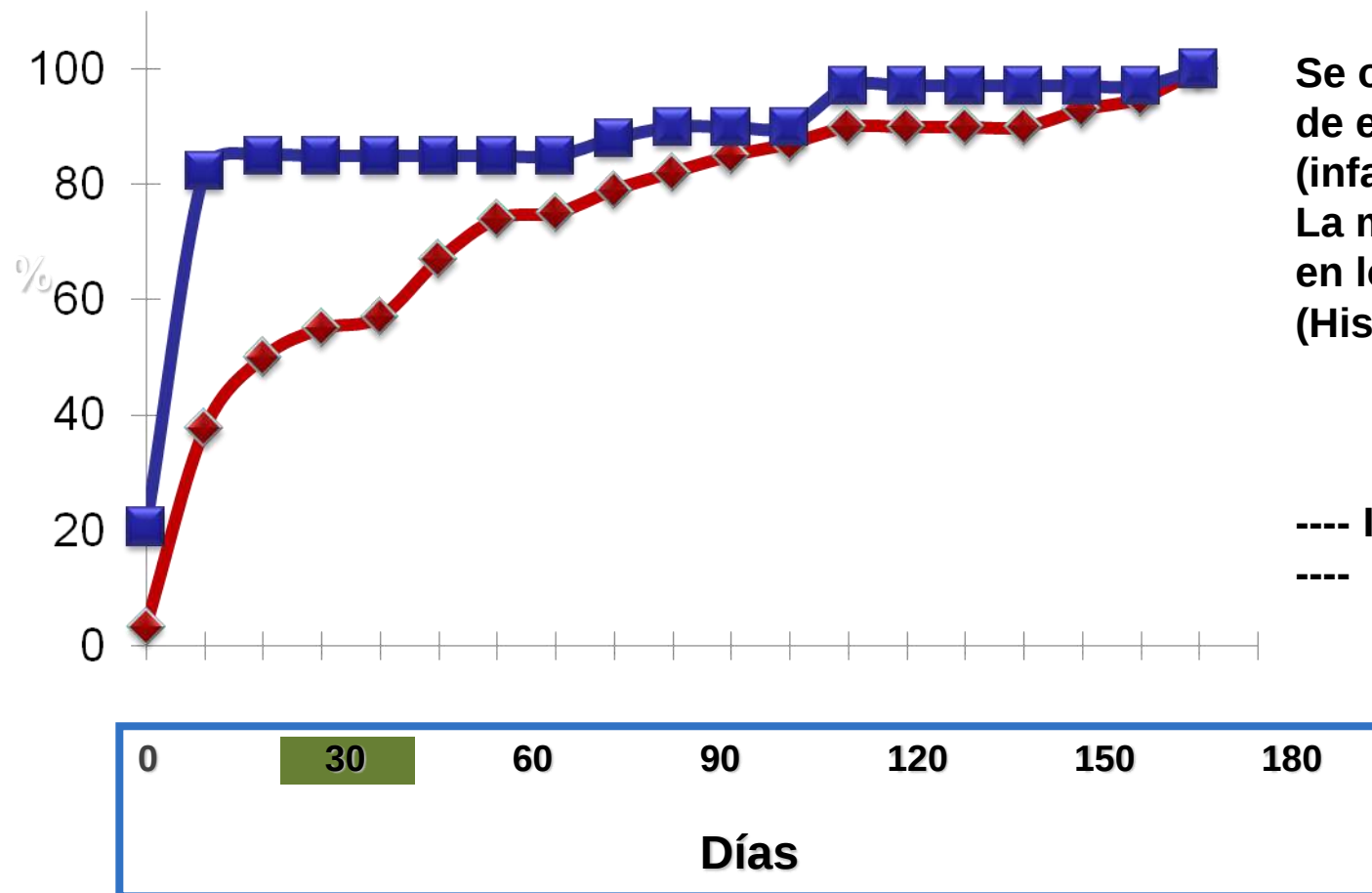
SELECCIÓN DE LOS PACIENTES CANDIDATOS A REPERFUSIÓN

REPERFUSIÓN
PACIENTES CANDIDATOS A
SELECCIÓN DE LOS

Eventos Clínicos Mayores

PACS: 1483 pacientes

IAM / MORT.9.5%



Se observa la curva de eventos mayores (infarto/muerte) . La mayoría se acumulan en los primeros días (Historia Natural)

---- IAM
---- Muerte

Continuo isquemia – sangrado INDIVIDUALIZAR al PACIENTE

Procedimiento (ATC)

Acceso
femoral,
IP2Y12 mas
potentes

EMV, Bif, nº
stents,
longitud de
stents, OTC,
revasc
completa

Clínica del paciente

ACO,
sangrado
previo,
anemia,
plaquetopen
ia, fragilidad,
hepatopatía,
fragilidad

SCA, DM,
IRC, historia
de
trombosis
del stent,
IAM previo,
EVP, IMC>30

Scores

PRECISE-
DAPT, ARC-
HBR, DAPT,
CREDO-
Kyoto,
HASBLED

GRACE,
TIMI,
GUSTO,
SYNTAX I y II

Riesgo
hemorrágico

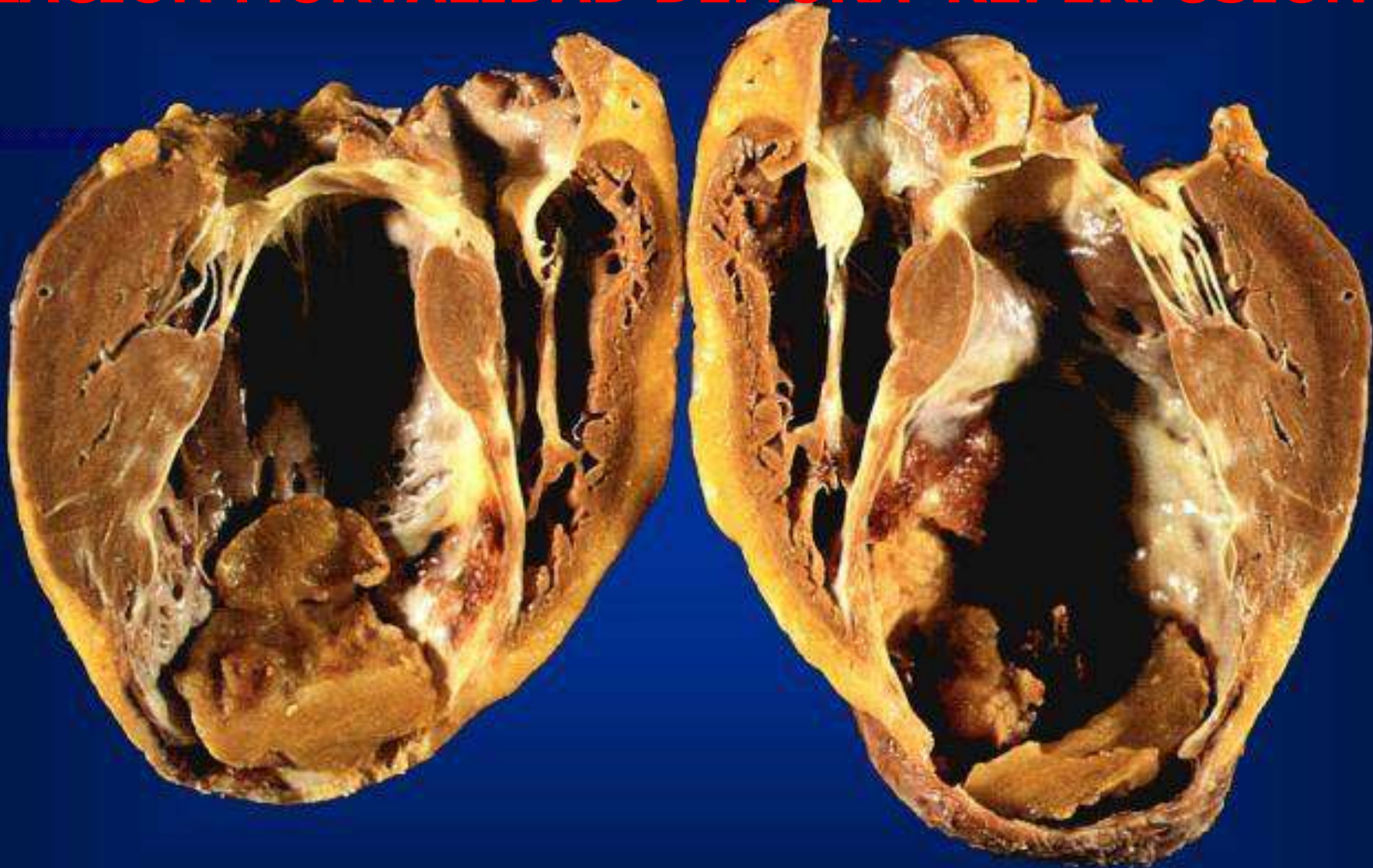
Riesgo isquémico

Evento
(tiempo 0)

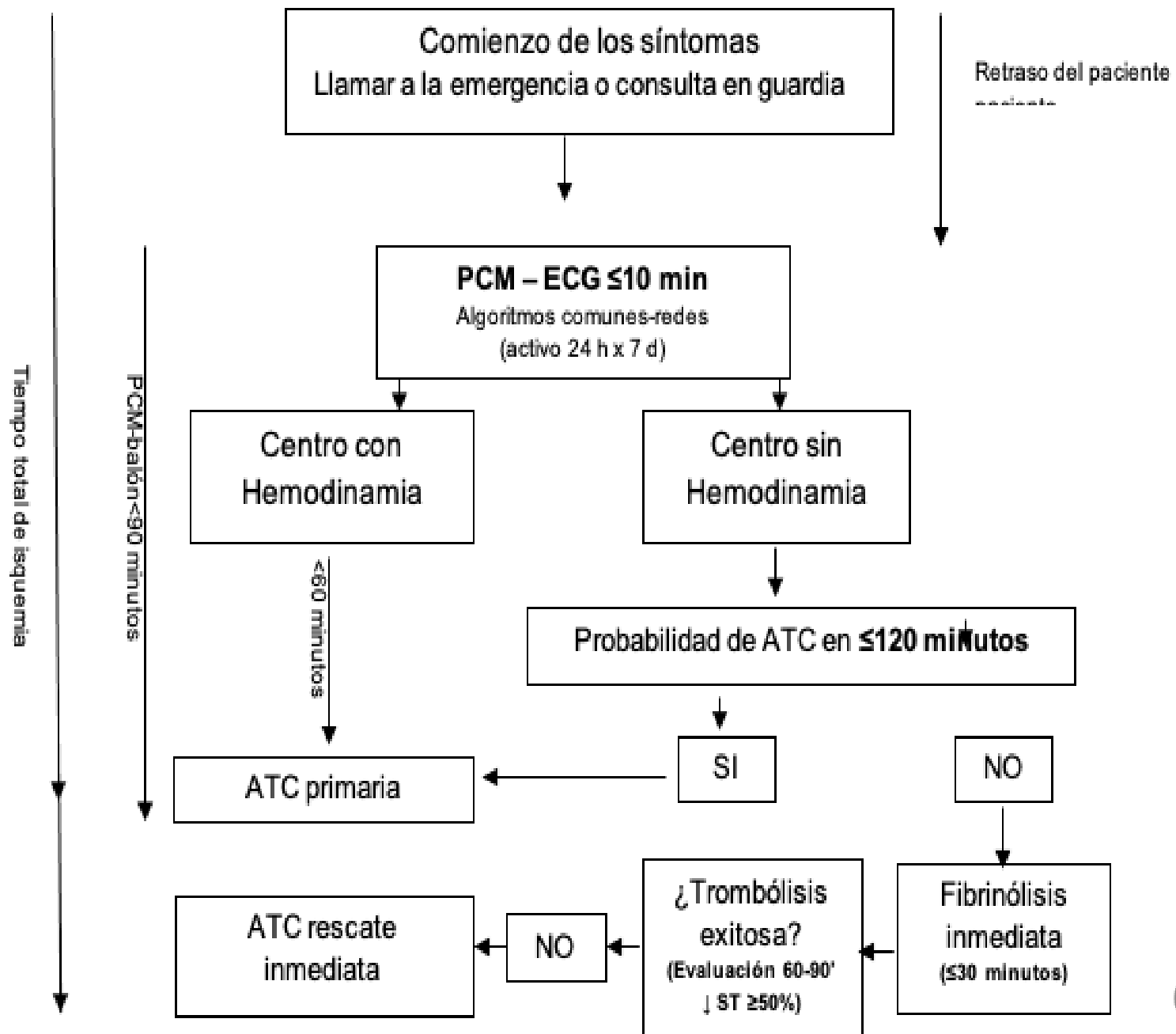
TIEMPO

INFARTO de MIOCARDIO

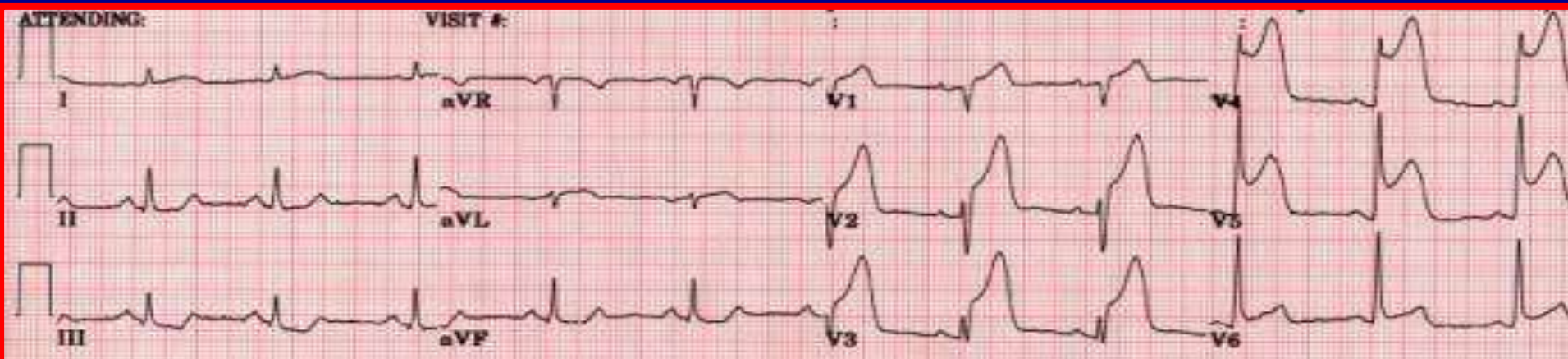
RELACION MORTALIDAD DEMORA REPERFUSION



ESTRATEGIA DE REPERFUSION



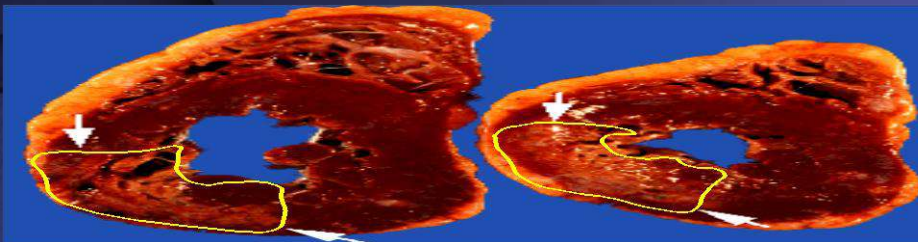
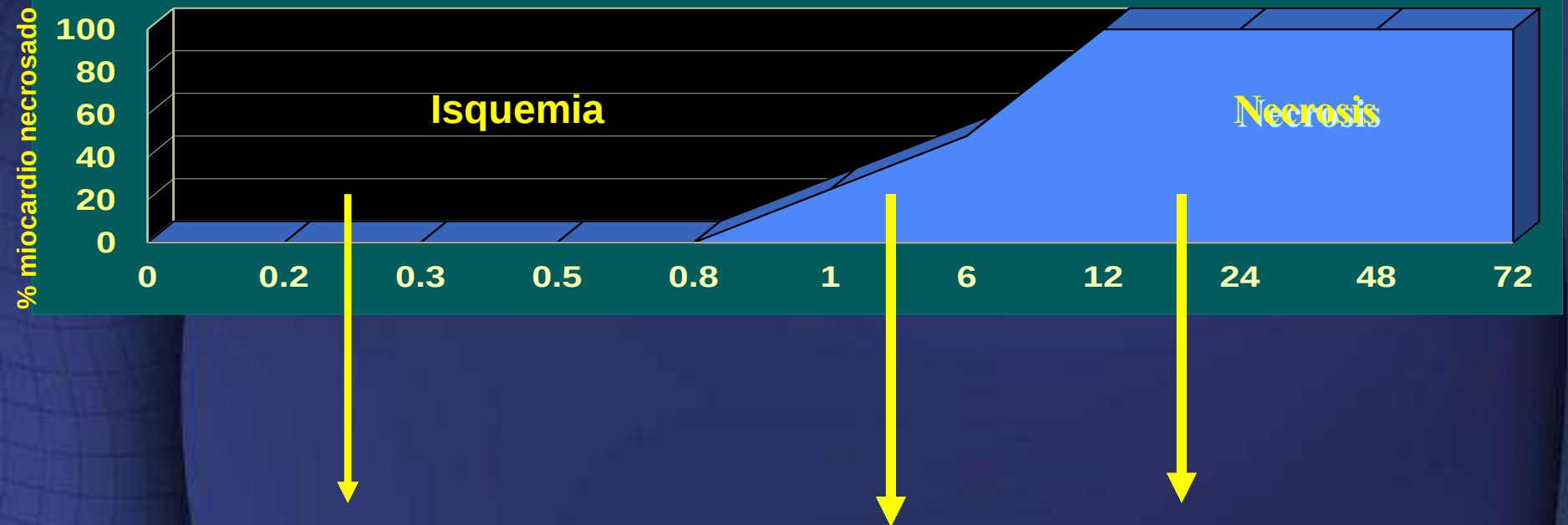
INFARTO AGUDO DE MIOCARDIO



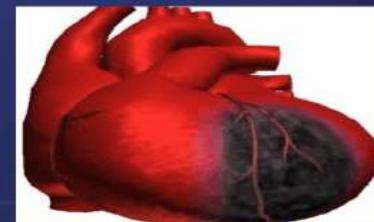
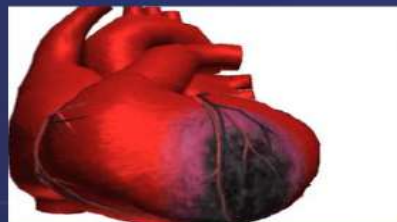
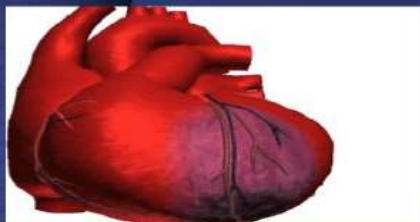
Objetivo del tratamiento de la arteria responsable del IAM

Recanalizar Precoz Completa Sostenida

Compromiso miocárdico en relación al tiempo de oclusión coronaria



9 – 12 horas



Metas de la Reperusión en el IAM

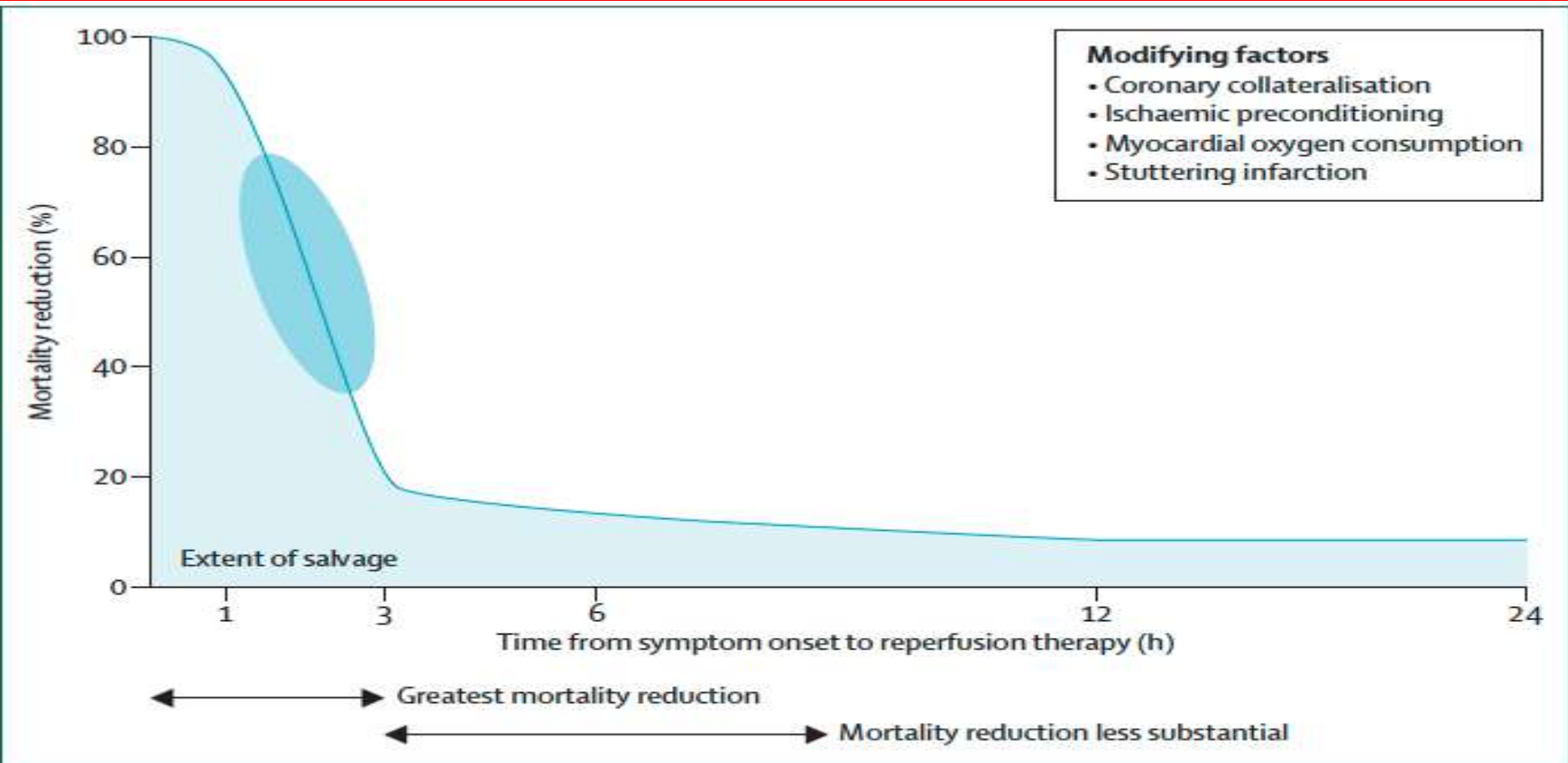
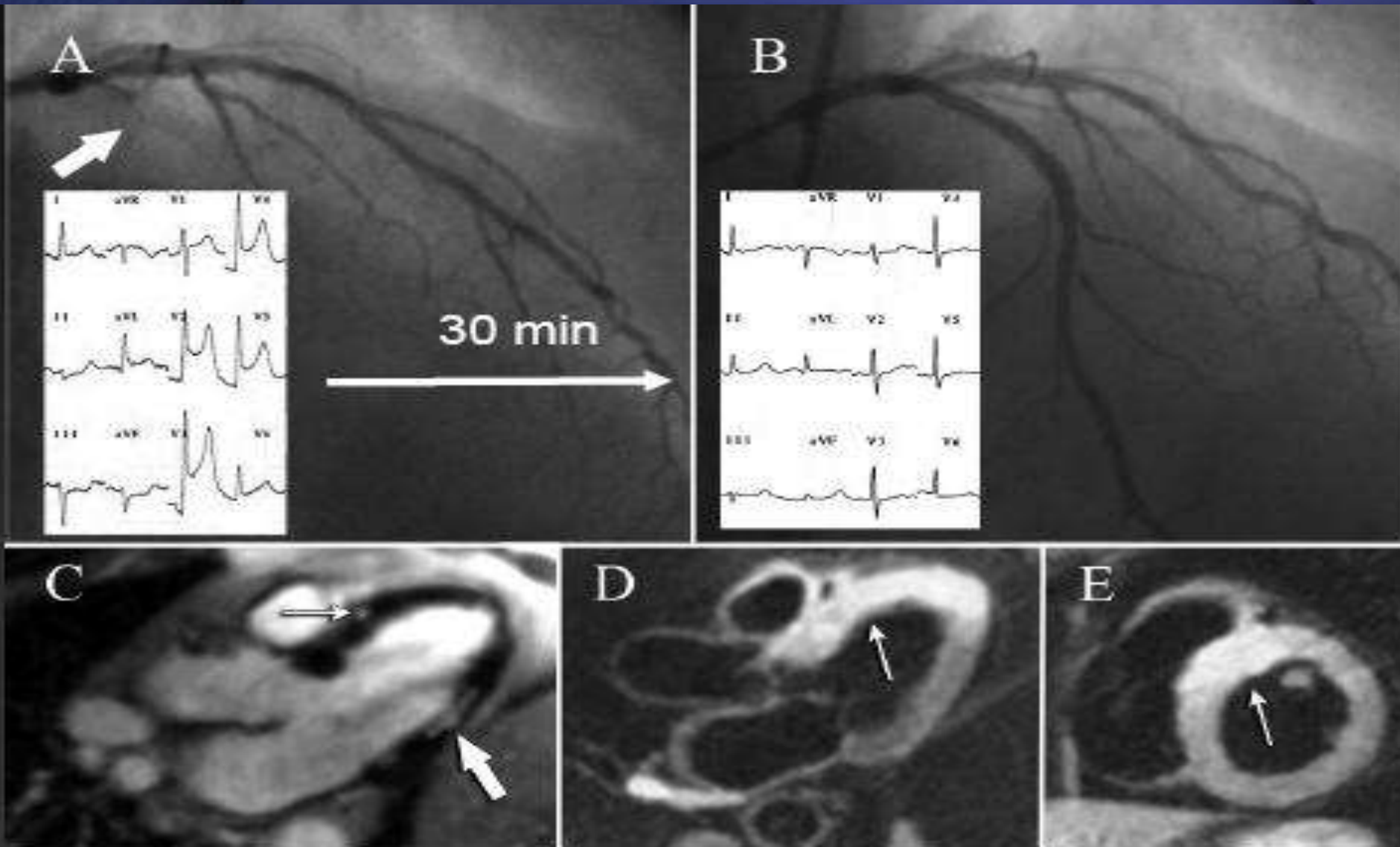


Figure 2: The association between time to treatment, reduction in mortality, and extent of myocardial salvage

❖ Reducir el tiempo total de isquemia

Infarto de Miocardio Abortado

Correlación entre Reperfusión, Angiografía y, RMN



IAM

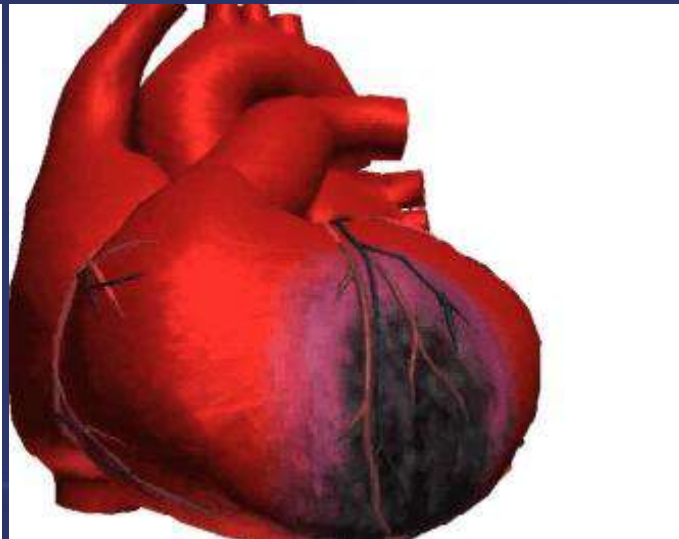
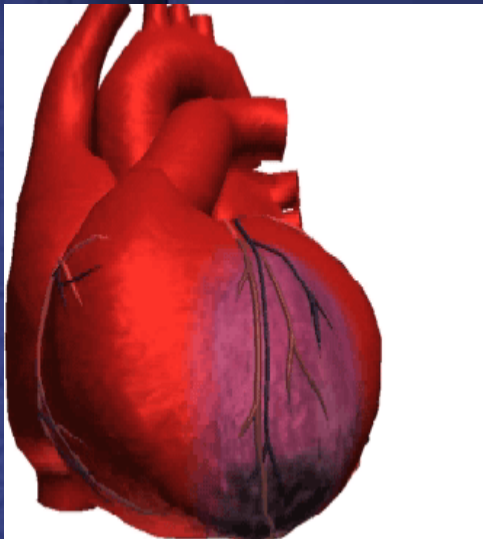
Critico=>tiempo de oclusion

Tiempo desde la oclusión

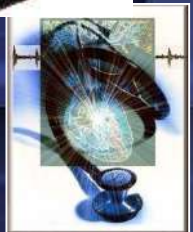
1 – 2 hs

4 -8 hs

CM Gibson



9 – 12 hs



Relación entre grado de flujo TIMI y mortalidad



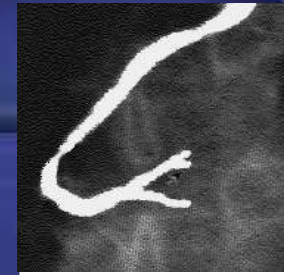
**TIMI 0
Oclusión**



**TIMI 1
Penetración**



**TIMI 2
Slow Flow**



**TIMI 3
Flujo Normal**

% Mortalidad

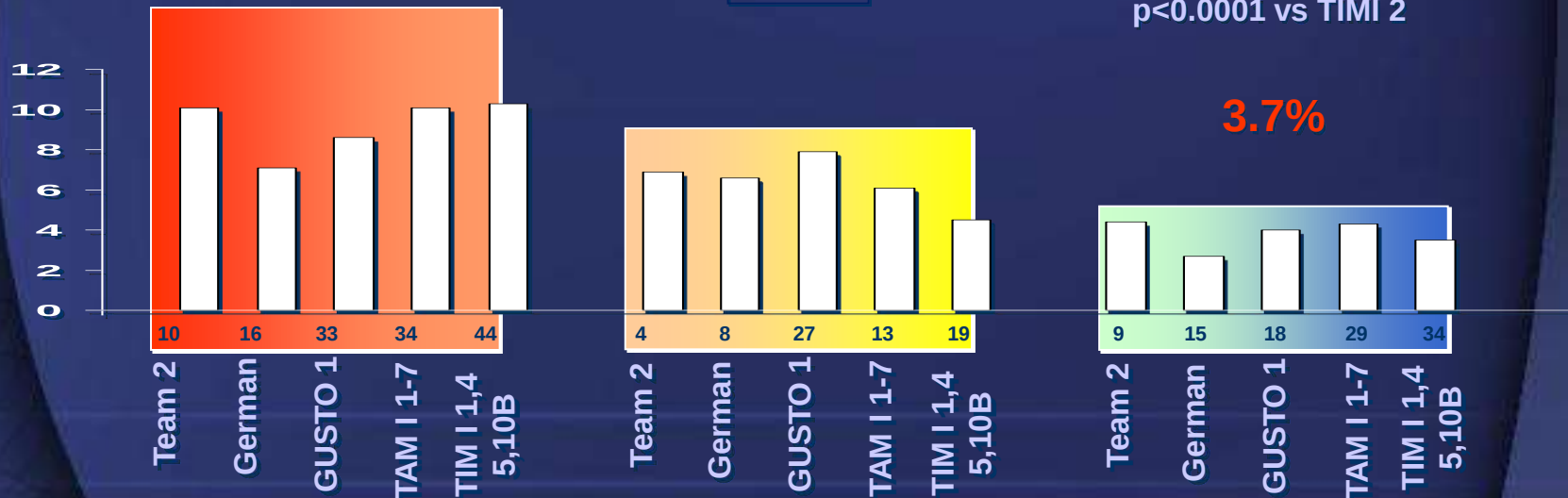
9.3%

P=0.003 vs TIMI 0/1

6.1%

p<0.0001 vs TIMI 0/1
p<0.0001 vs TIMI 2

3.7%



Tamaño de la muestra del análisis combinado: 5,498

Gibson 1998

Tratamiento del IAM

OBJETIVOS

1. Reperusión del vaso Ocluido

Limitación del tamaño del IAM

1. Fibrinolíticos **FARMACOINVASIVA**
2. Angioplastia primaria

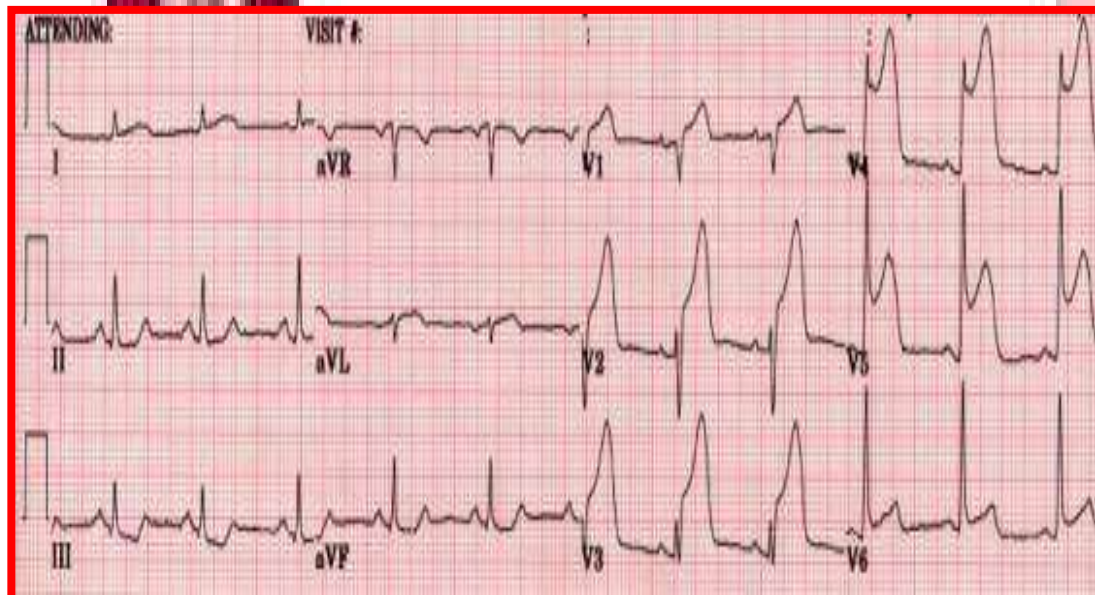
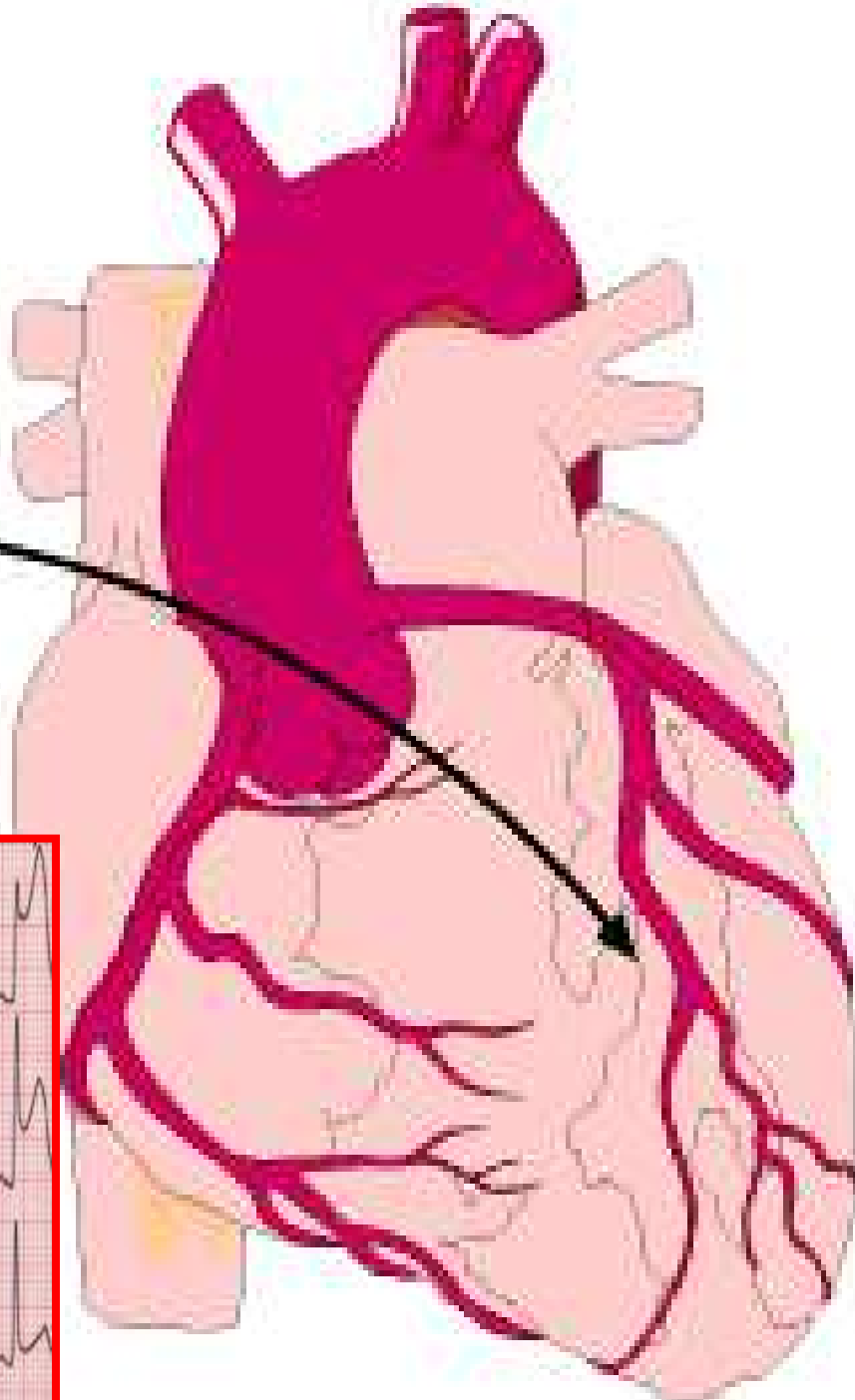
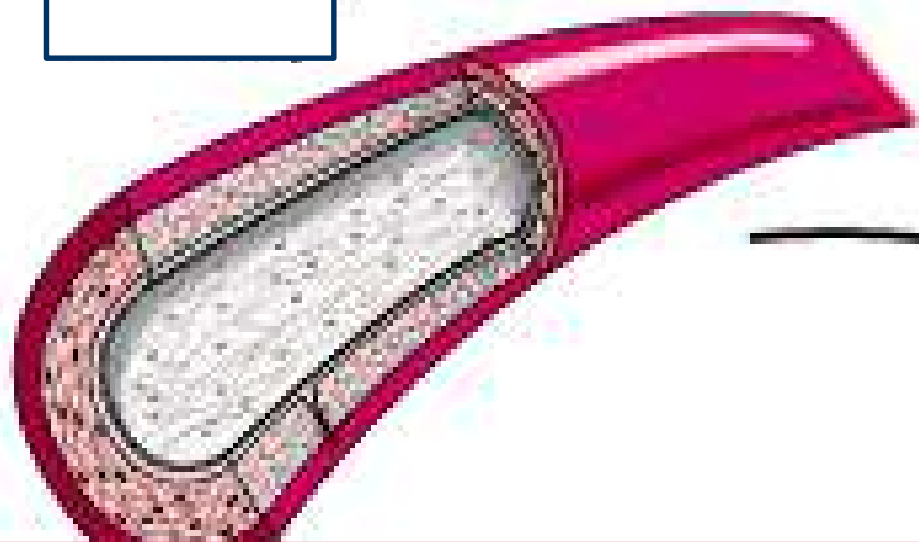
1. Tratamiento coadyuvante

1. Medidas generales (sedo-analgesia, O₂)
2. AAS - (Guardia antes de derivar 500 mg)
3. Nitritos iv
4. β -bloqueantes oral.
5. IECAs=Estatinas (24 hs)
6. Antiplaquetarios, anticoagulantes



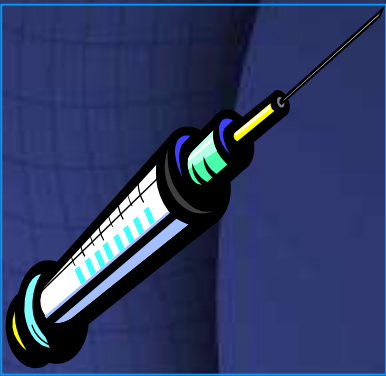
IAM TIEMPO CRITICO

= REPERFUSION =

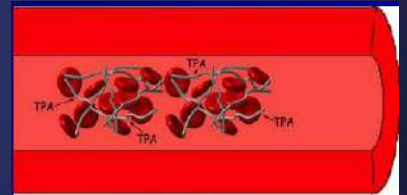


INFARTO AGUDO DE MIOCARDIO

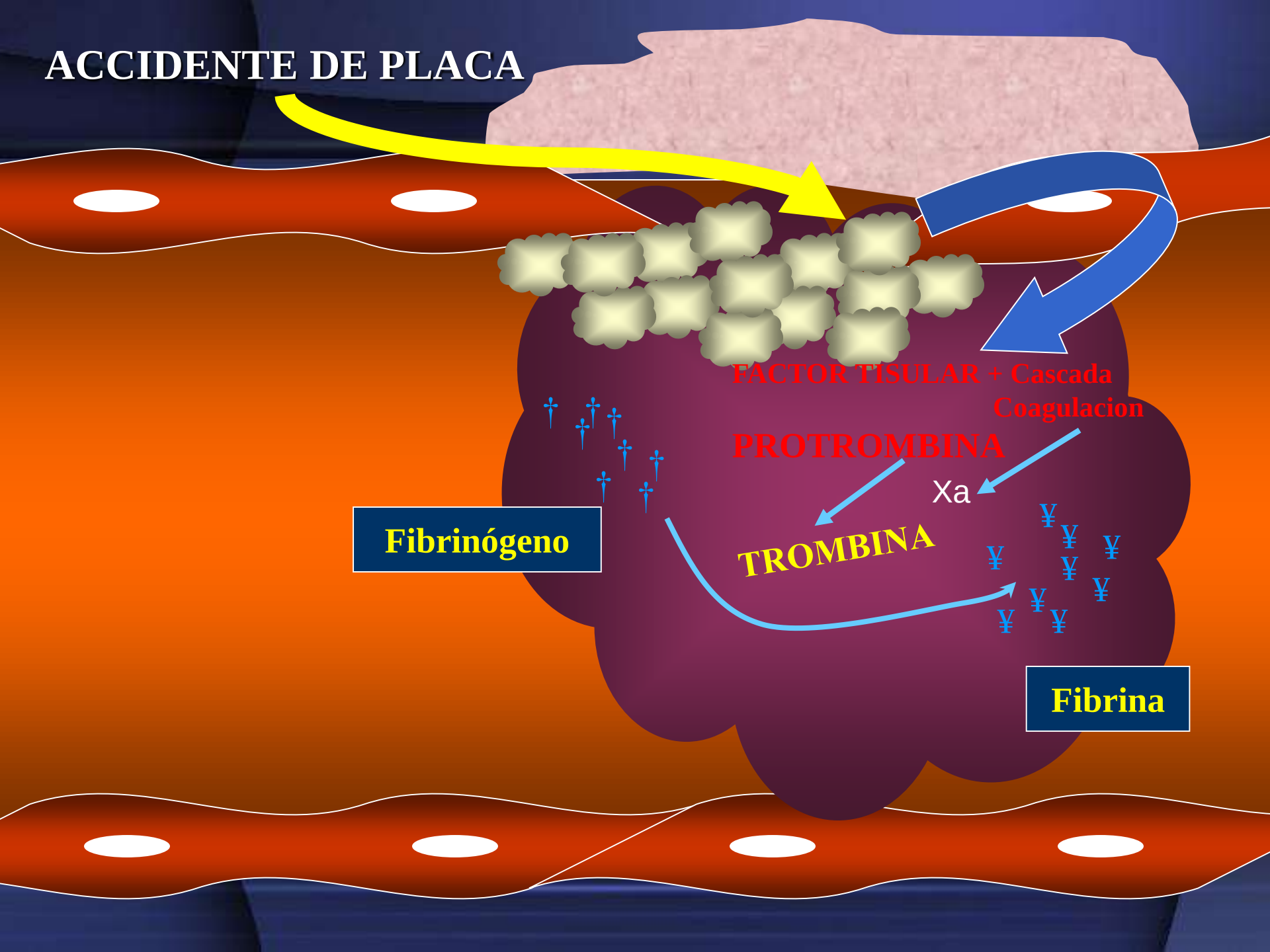
ESTRATEGIAS DE REPERFUSION



FIBRINOLITICOS IV



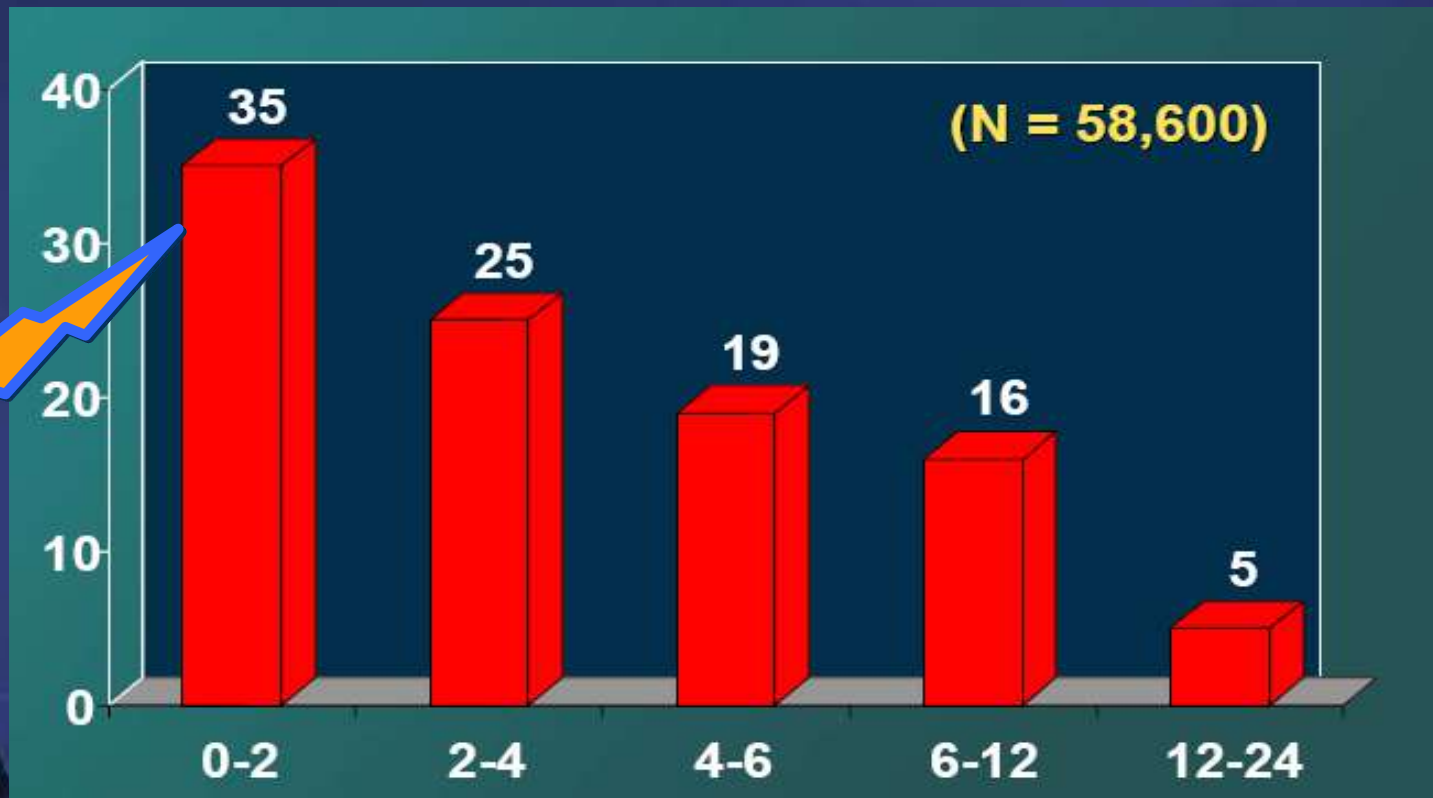
ACCIDENTE DE PLACA



FTT

Variación del número de vidas salvadas según la demora del tratamiento con líticos

9 estudios randomizados



Tiempo total (Hs)

Vidas salvadas por cada 1000 ptes. tratados
(a 35 d)

Lancet 1994;343:311

INFARTO AGUDO DE MIOCARDIO

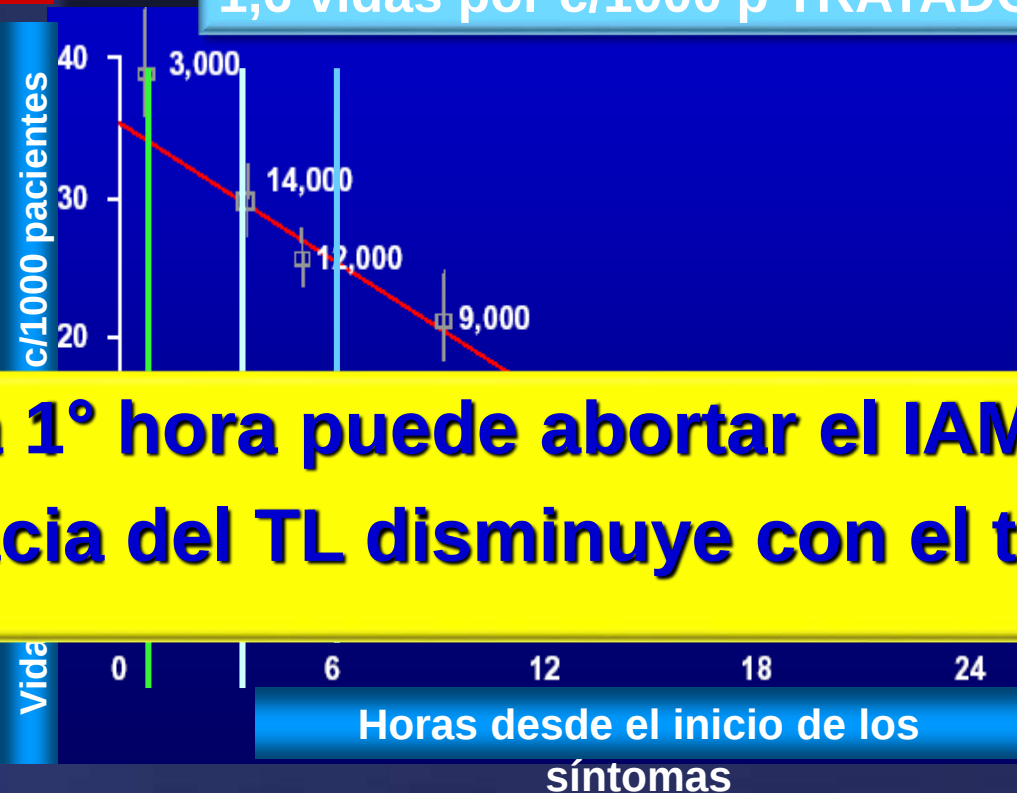
Reducción de la Mortalidad según demora al TL

9 trials-58600p

Perdida de beneficio por cada hora de retraso:
1,6 vidas por c/1000 p TRATADOS

FTT

Beneficio absoluto
por c/1000

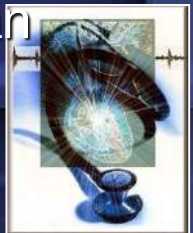


- ❖ TL en la 1ª hora puede abortar el IAM
- ❖ La eficacia del TL disminuye con el tiempo

Trombolíticos

Trombolítico --Beneficios

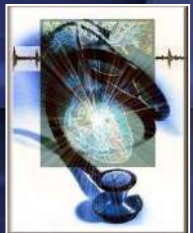
- ❖ Han demostrado una limitación del tamaño del infarto.< 4hs
- ❖ Mejora de la función ventricular izquierda.
- ❖ Reducción de la mortalidad.
- ❖ Fácil y rápida administración.Ampliamente disponibles.
- ❖ No requieren un costoso laboratorio de cateterismo y personal altamente entrenado.
- ❖ Son igual de eficaces en un hospital rural y en un gran centro de referencia.



Trombolíticos

Contraindicaciones absolutas

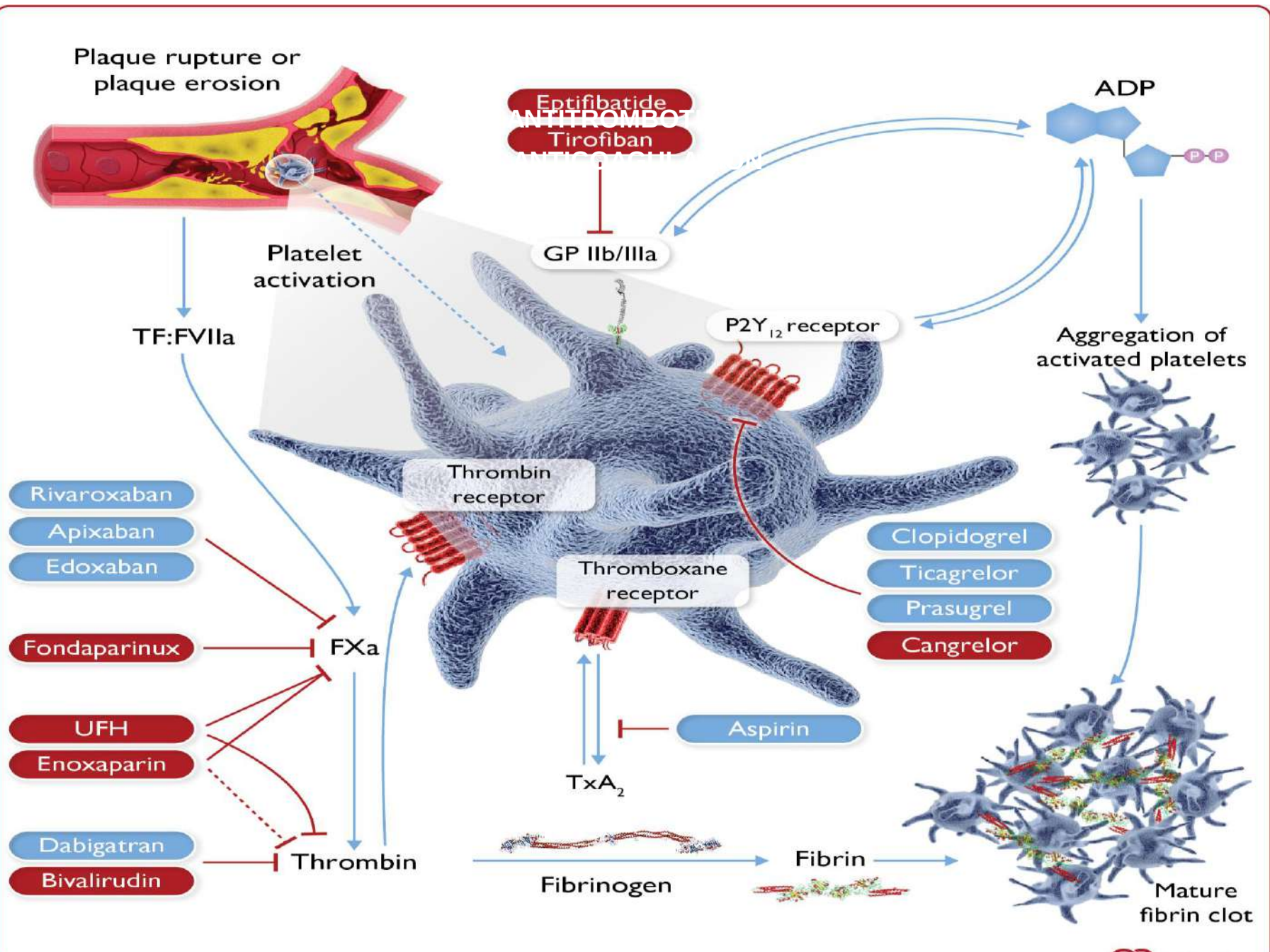
- ACV hemorrágico o ACV de origen desconocido en cualquier momento
- Traumatismo o neoplasia en el sistema nervioso central
- Traumatismo/cirugía/daño encefálico reciente importante (durante las 3 semanas precedentes)
- Sangrado gastrointestinal durante el último mes
- Alteración hemorrágica conocida
- **Diseccción aórtica**



Se recomienda el uso de fibrinolíticos <u>fibrinoespecíficos</u> sobre no <u>fibrinoespecíficos</u> .(98,226)	I	A
Se sugiere preferir <u>tenecteplasa (TNK)</u> por eficacia equivalente a t-PA, menor sangrado no cerebral y administración en bolo único ajustado por peso, lo que simplifica la práctica y reduce tiempos y errores.	I	B
En pacientes ≥ 75 años, si se indica fibrinólisis, usar TNK a mitad de dosis solo dentro de una estrategia <u>farmacoinvasiva</u>	<u>Ia</u>	B
En sistemas sanitarios con capacidad para implementarlos, se recomienda la fibrinólisis prehospitalaria con fibrinolíticos <u>fibrinoespecíficos</u> en bolo sobre la fibrinólisis hospitalaria.(177)	I	B

Doses of fibrinolytic agents and antithrombotic co-therapies

Drug	Initial treatment	Specific contra-indications
Doses of fibrinolytic therapy		
Streptokinase	1.5 million units over 30–60 min i.v.	Previous treatment with streptokinase or anistreplase
Alteplase (tPA)	15 mg i.v. bolus 0.75 mg/kg i.v. over 30 min (up to 50 mg) then 0.5 mg/kg i.v. over 60 min (up to 35 mg)	
Reteplase (rPA)	10 units + 10 units i.v. bolus given 30 min apart	
Tenecteplase (TNK-tPA)	Single i.v. bolus: 30 mg (6000 IU) if <60 kg 35 mg (7000 IU) if 60 to <70 kg 40 mg (8000 IU) if 70 to <80 kg 45 mg (9000 IU) if 80 to <90 kg 50 mg (10000 IU) if ≥90 kg It is recommended to reduce to half-dose in patients ≥75 years of age.	Es el fármaco de elección para iniciar reperfusión . Si ATC > 90 -120 min. Efectividad: 85% flujo TIMI 3 ACV isquémico agudo: aprobado disponible en centros con unidad de Stroke Las ventajas clave la SAC la recomienda: Bolo único IV en <10 segundos. No hace falta bomba de infusión "tiempo es músculo=vida"



ASPIRINA

- *Indicacion Clase I A*
- AAS debe ser administrada masticada en una dosis de 500 mg (GUARDIA) y continuar 100 mg - dia.
- ISIS II (1988) Solo adminitrando AAS se reduce un 23%(RR) + STK(25%) un 42% (Ambas) la mortalidad a 35 dias .

ACCIDENTE DE PLACA

Antiagregantes Plaquetarios

ASPIRINA

Fibrinógeno

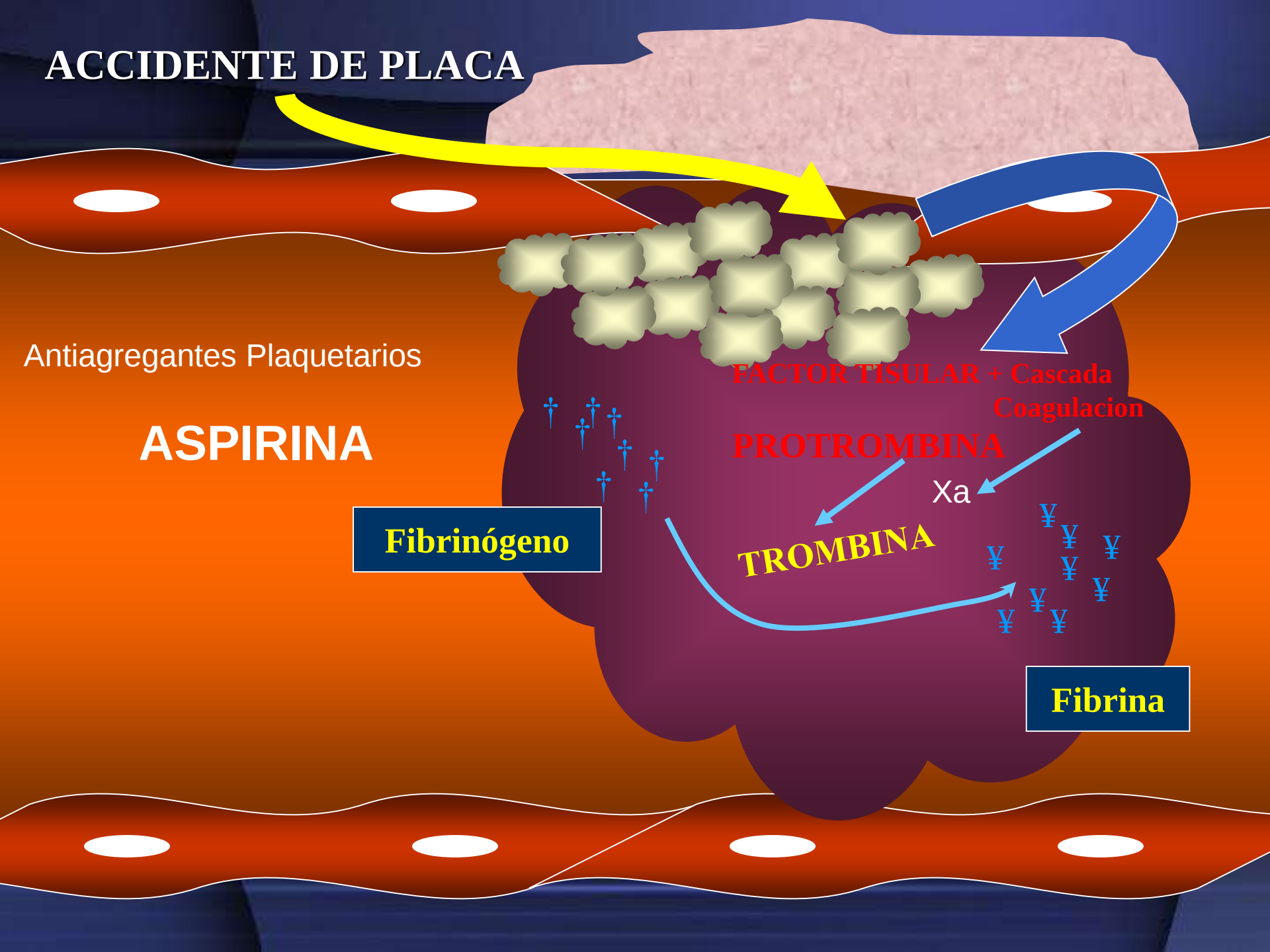
FACTOR TISULAR + Cascada
Coagulación

PROTROMBINA

Xa

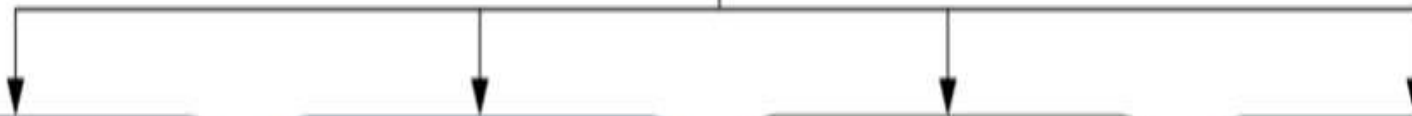
TROMBINA

Fibrina



ACS

Initial selection of oral P2Y12 inhibitor



**PCI
(NSTE-ACS or STEMI)**

**aspirin +
ticagrelor or prasugrel
(Class 1)**

Clopidogrel when
ticagrelor or prasugrel
are not available,
cannot be tolerated or
contraindicated

CABG

**aspirin +
ticagrelor or clopidogrel
(Class 1)**

Continue aspirin during
CABG and start P2Y12
inhibitor when safe
postoperatively

**No planned invasive
evaluation**

**aspirin + ticagrelor
(Class 1)**

Clopidogrel when
ticagrelor is not
available, cannot
be tolerated or
contraindicated

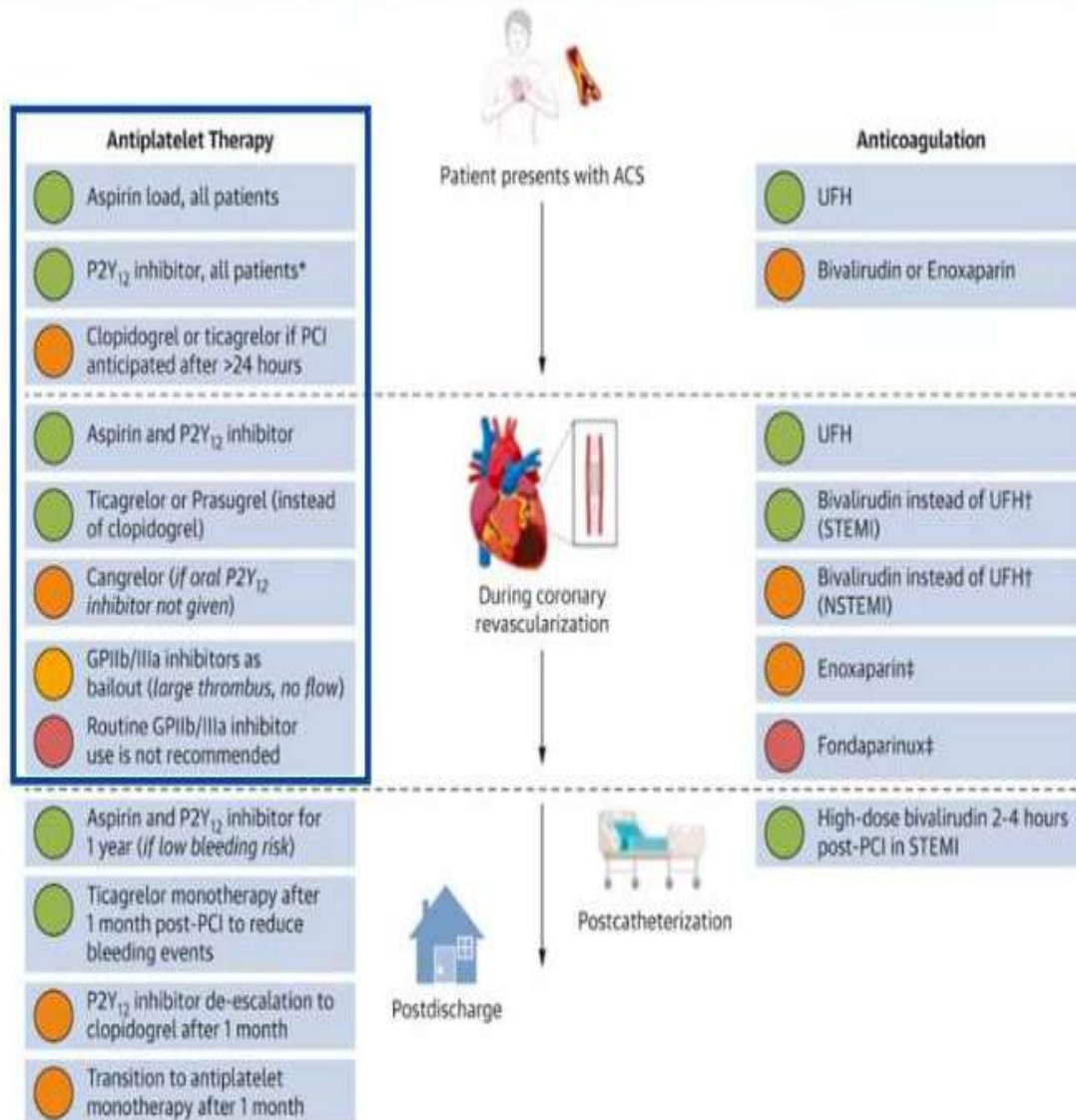
Fibrinolytic in STEMI

**aspirin + clopidogrel
(Class 1)**

Alternate P2Y12
inhibitor can be
considered at PCI
(if applicable)

Antiplatelet and Anticoagulant Therapy for ACS

2025 ACC/AHA Guidelines



UFH, unfractionated heparin.

*If planned for PCI within 24 hours, P2Y₁₂ inhibitor administration can be deferred until coronary anatomy has been defined.

Bikdeli B. et al. J Am Coll Cardiol.

2025;85:2074-2078.

Doses of anti-thrombin co-therapies

Doses of antithrombin co-therapies

ANGIOPLASTIA

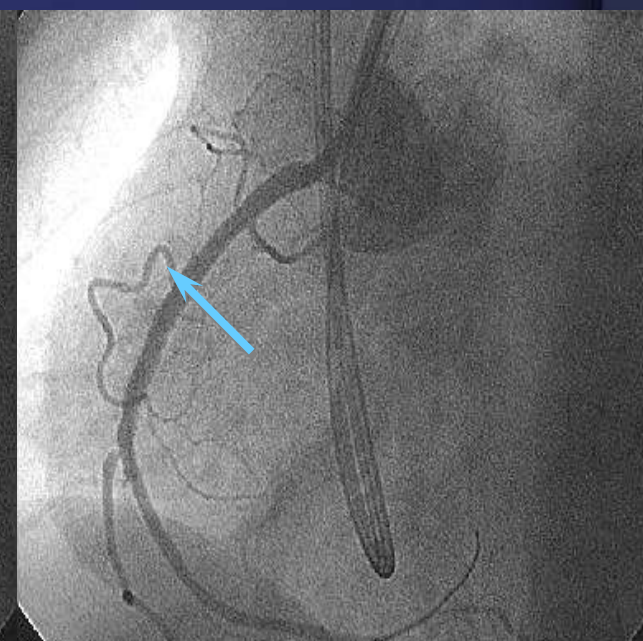
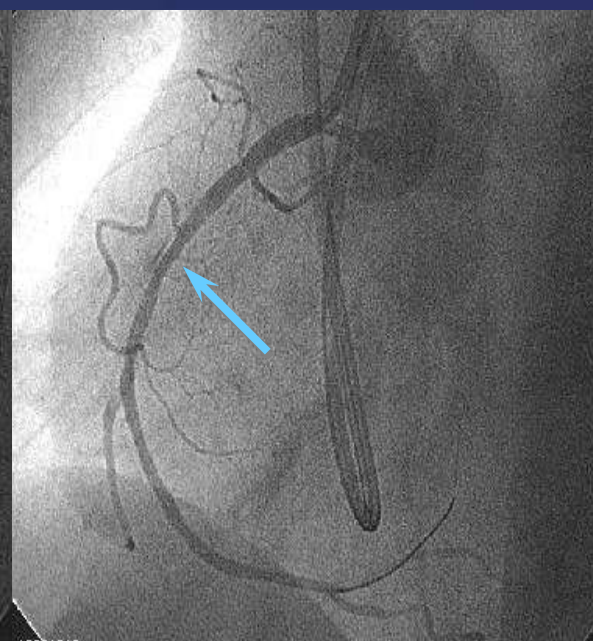
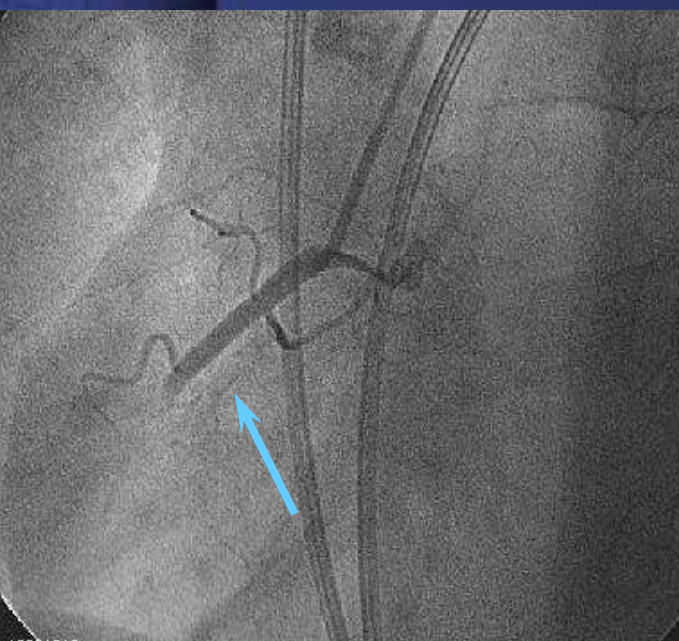
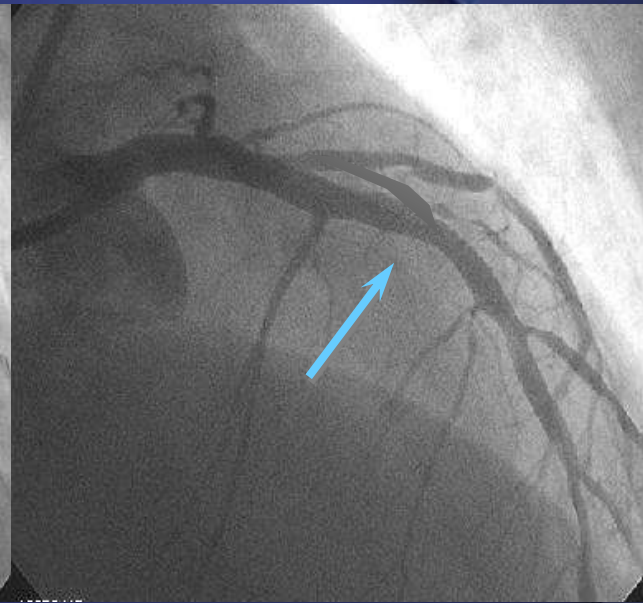
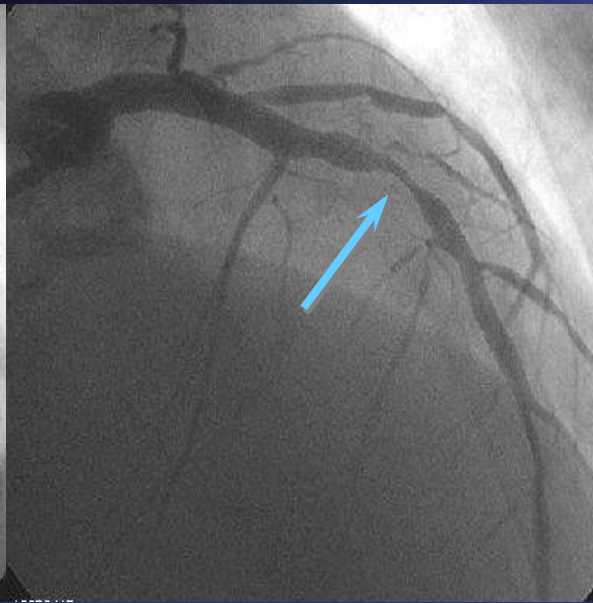
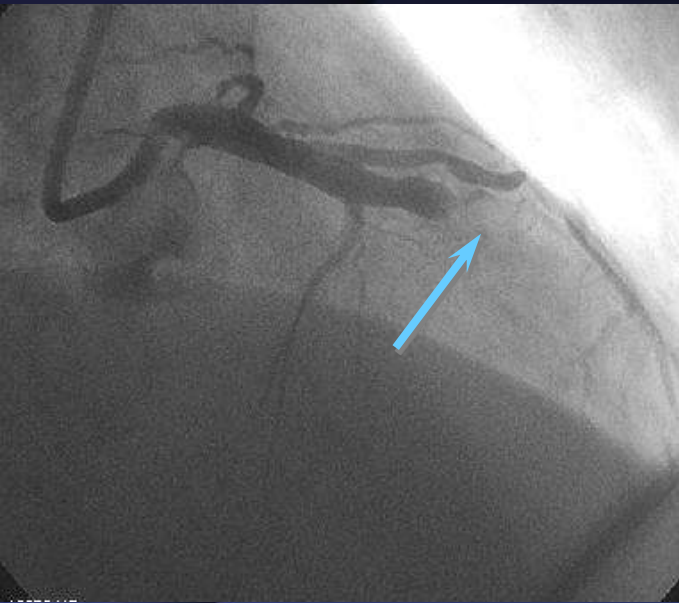
Unfractionated heparin	70-100 U/kg i.v. bolus 50-60 U/kg i.v. bolus	
Enoxaparin	0.5 mg/kg i.v. bolus.	
Bivalirudin	0.75 mg/kg i.v. bolus followed by i.v infusion of 1.75 mg/kg/h for up to 4 h after the procedure as clinically warranted. After cessation of the 1.75 mg/kg/h infusion, a reduced infusion dose of 0.25 mg/kg/h may be continued for 4-12 h as clinically necessary.	

ESTRATEGIA CONSERVADORA

Unfractionated heparin	60 U/kg i.v. bolus with a maximum of 4000 U followed by an i.v. infusion of 12 U/kg with a maximum of 1000 U/h for 24-48 h. Target aPTT: 50-70 s or 1.5 to 2.0 times that of control to be monitored at 3, 6, 12 and 24 h.	
Enoxaparin	In patients < 75 years of age: 30 mg i.v. bolus followed 15 min later by 1 mg/kg s.c. every 12 h until hospital discharge for a maximum of 8 days. The first two doses should not exceed 100 mg. In patients > 75 years of age: no i.v. bolus; start with first s.c. dose of 0.75 mg/kg with a maximum of 75 mg for the first two s.c. doses. In patients with creatinine clearance of < 30 mL/min, regardless of age, the s.c. doses are given once every 24 h.	
Fondaparinux	2.5 mg i.v. bolus followed by a s.c. dose of 2.5 mg once daily up to 8 days or hospital discharge.	

Anticoagulación parenteral asociado al uso de fibrinolíticos.(99,244)	I	A
En pacientes sin estrategia invasiva (angioplastia de rescate o <u>farmacoinvasiva</u>) se recomienda enoxaparina durante 8 días o hasta el alta.	I	A
<u>Fondaparinux</u> como alternativa a la enoxaparina	<u>IIb</u>	C
En pacientes con estrategia invasiva que requieren régimen corto de anticoagulación se recomienda enoxaparina o HNF.	I	C
En pacientes en los que se realiza una angioplastia, suspender anticoagulantes luego del procedimiento.	I	C

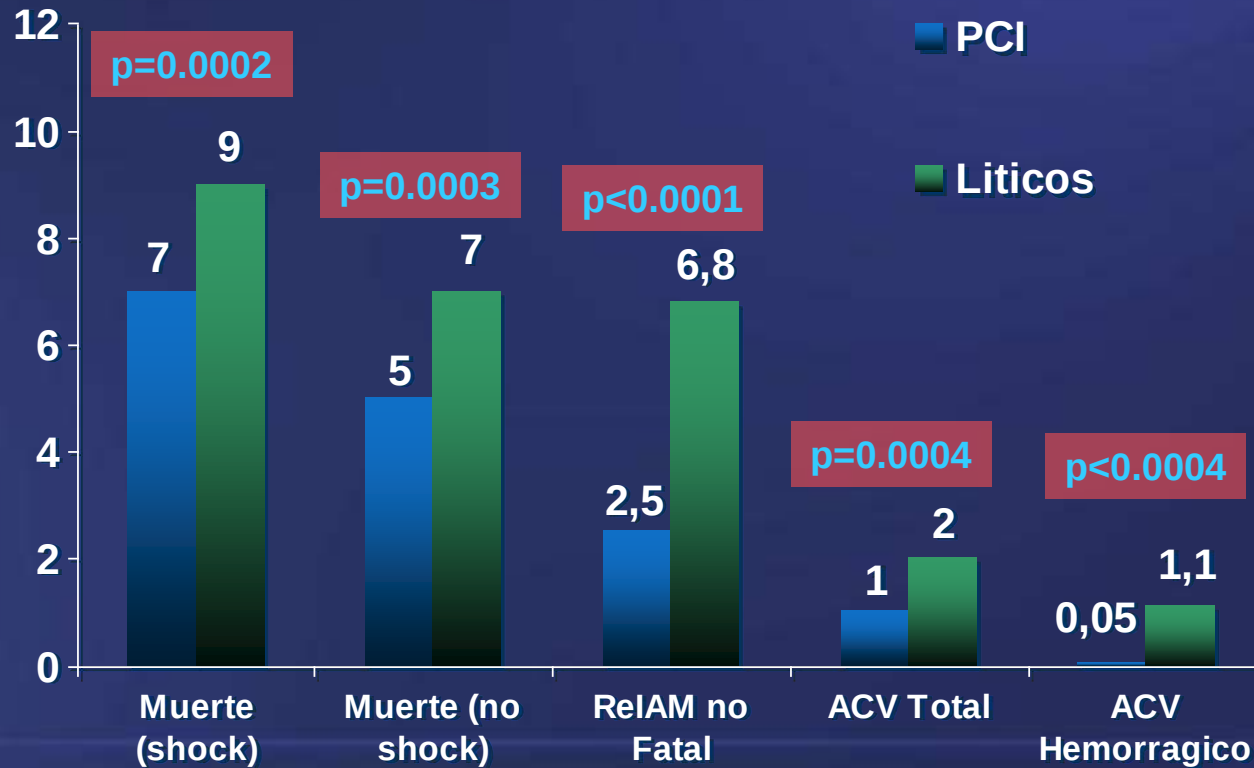
ANGIOPLASTIA 1RIA



ATC - STENT



Metanálisis de 23 Ensayos Randomizados sobre PCI vs Líticos (n=7739 p).



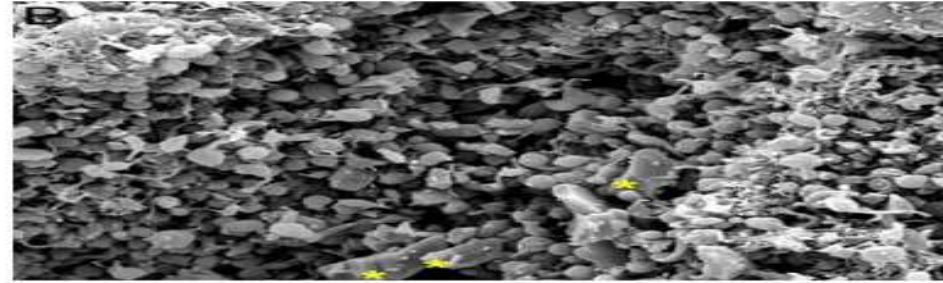
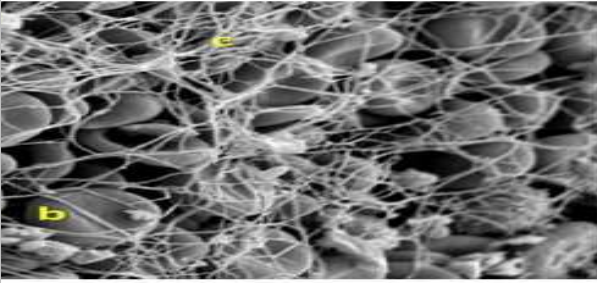
Keeley EC, Boura JA, Grines CL. Primary angioplasty versus intravenous thrombolytic therapy for acute myocardial infarction: a quantitative review of 23 randomised trials. *Lancet*. 2003 Jan 4;361(9351):13-20

Se recomienda la revascularización por angioplastia sobre los fibrinolíticos en pacientes que se presentan dentro de las 12hs, siempre que pueda realizarse dentro de los 120 minutos desde el diagnóstico.	I	A
Pacientes que se presentan con una ventana >12hs y persistencia de los síntomas, inestabilidad hemodinámica o arritmias graves deben ser considerados para revascularización por angioplastia	I	C
Se sugiere la revascularización por angioplastia en pacientes que se presentan entre las 12 y 24 del comienzo de los síntomas.	<u>Ila</u>	B
En pacientes que se presentan entre la 24 y 72hs que se encuentran asintomáticos, sin insuficiencia cardíaca o arritmias ventriculares se podría realizar angioplastia.	<u>Ilb</u>	C

Eficacia Liticos depende del Tiempo vs. ATC

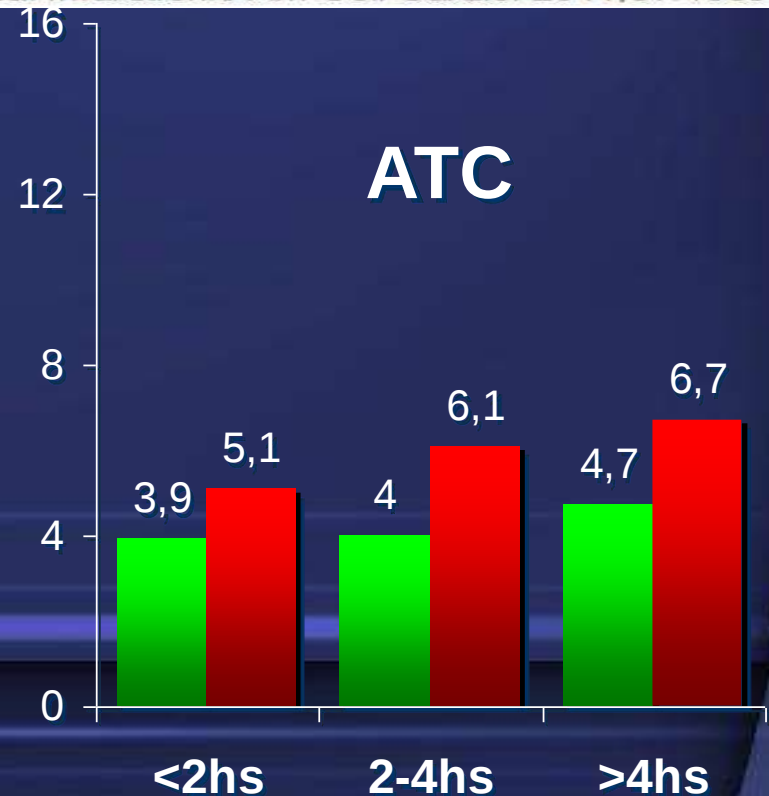
> 3 horas

< 3 horas

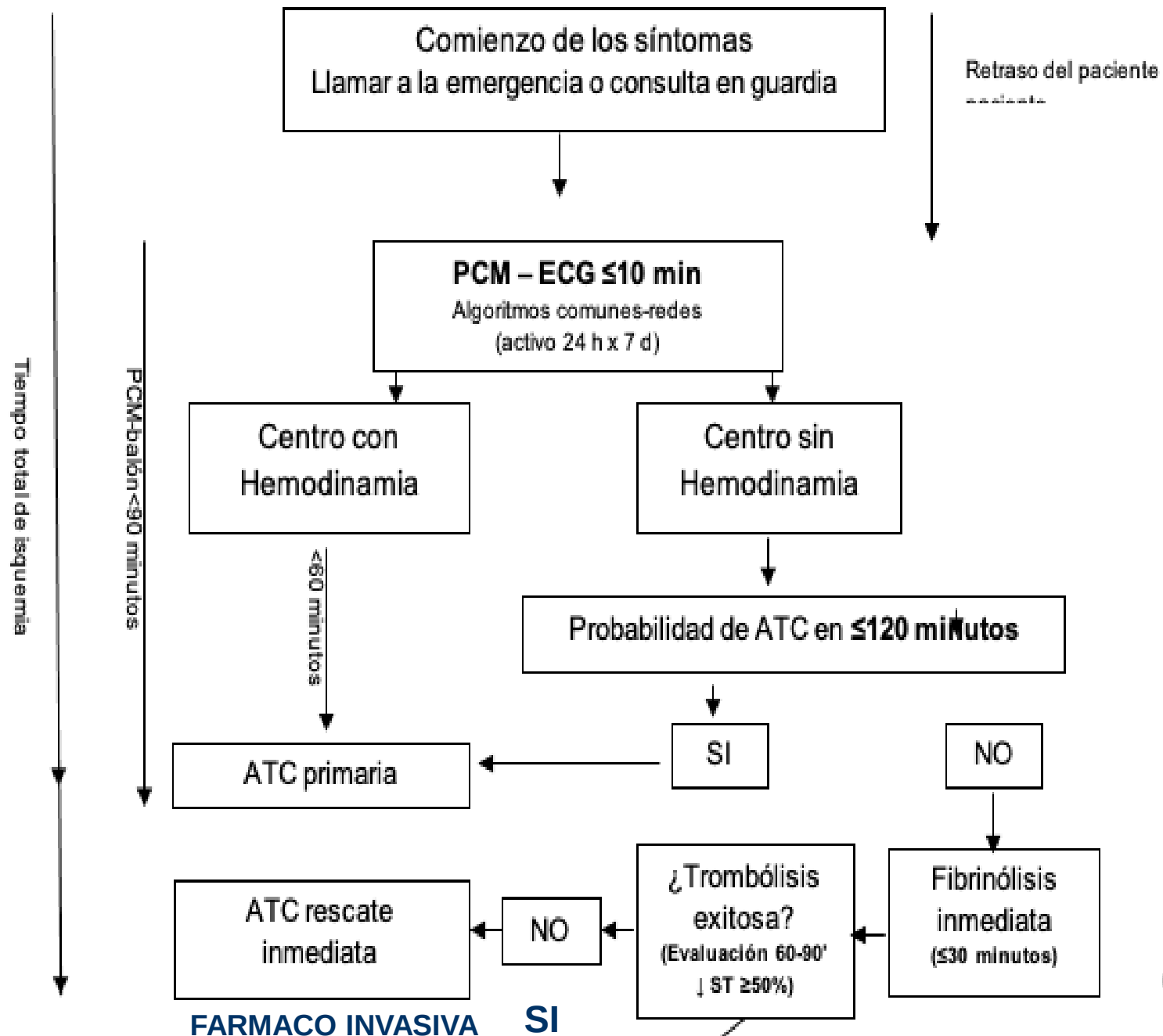


Scanning Electron Micrograph at 3,000x Magnification

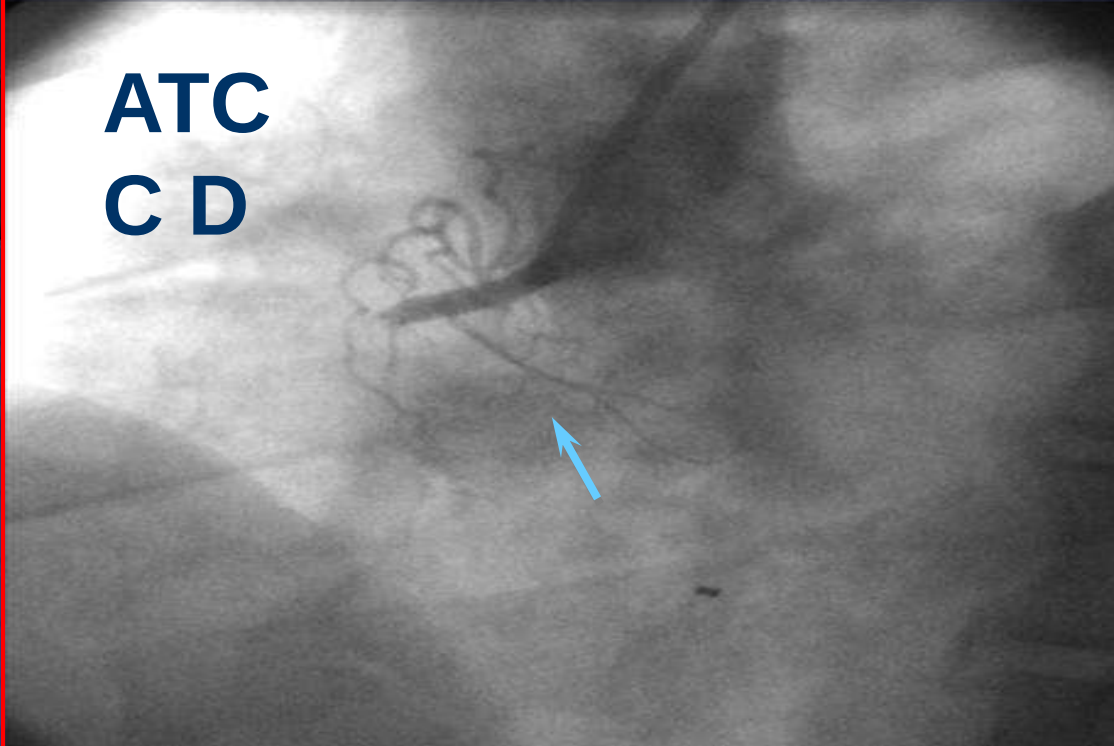
Composition of Coronary Thrombus in Acute Myocardial Infarction. J Am Coll Cardiol 2011;57:1359-67



ESTRATEGIA DE REPERFUSION

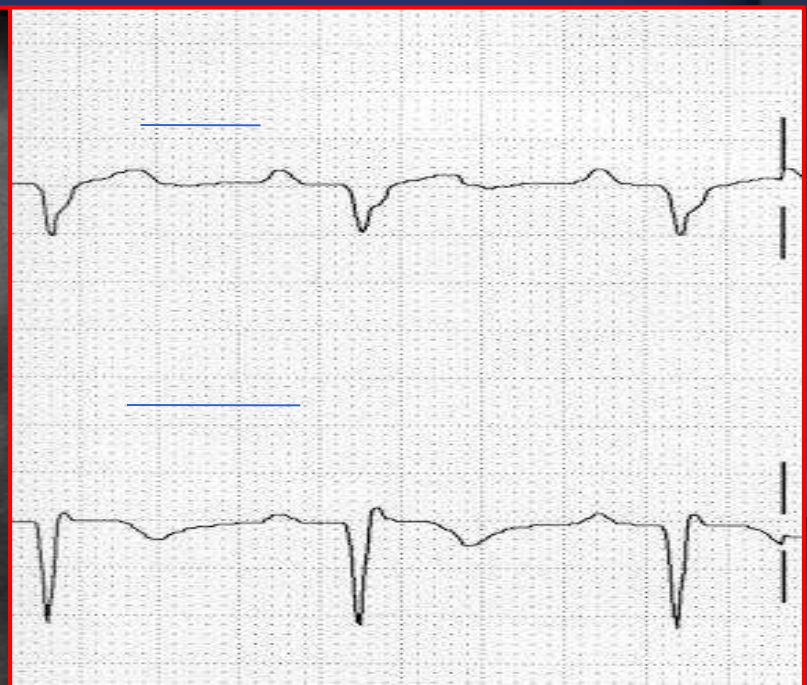
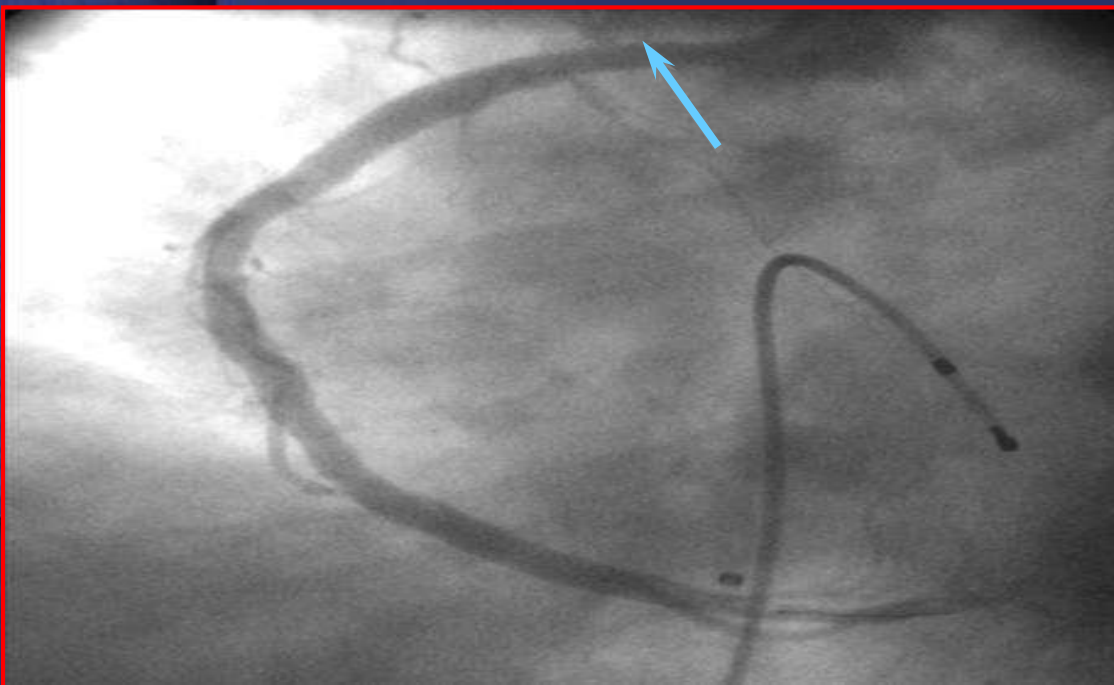
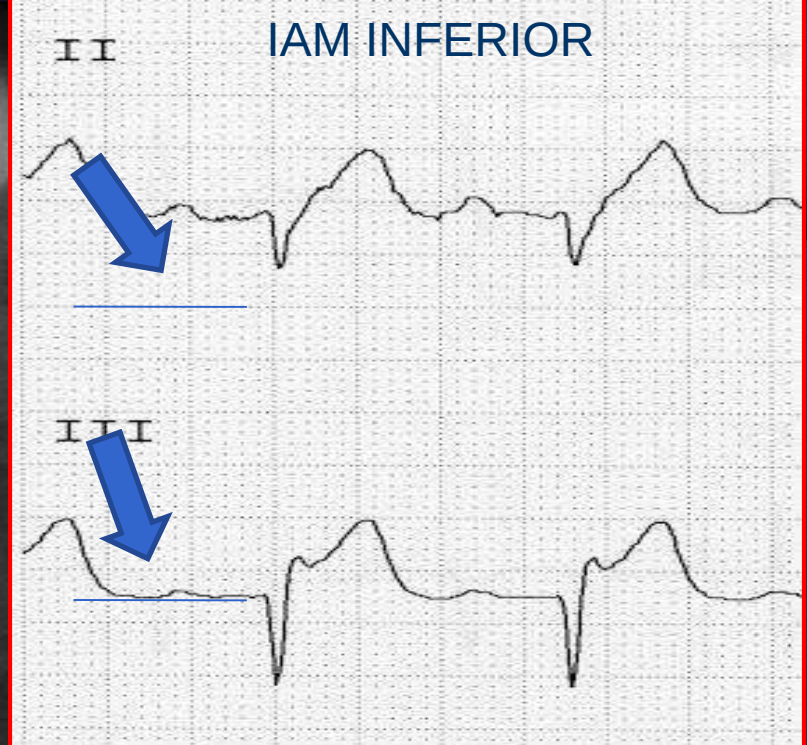


ATC
C D

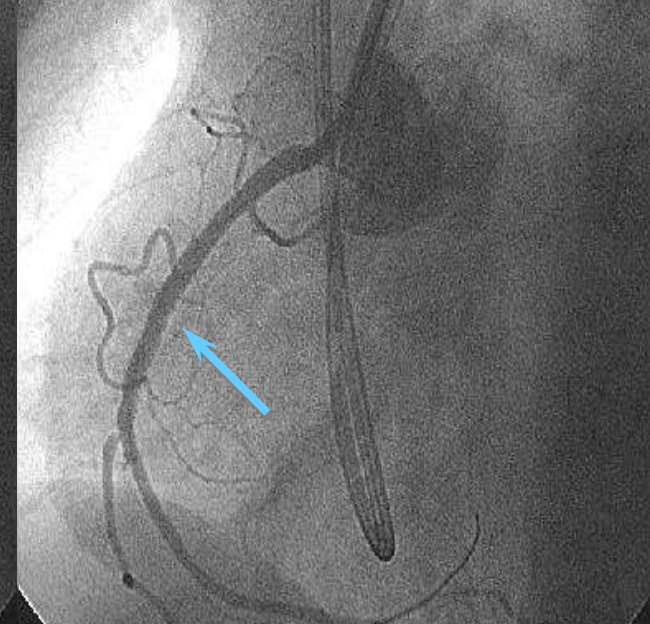
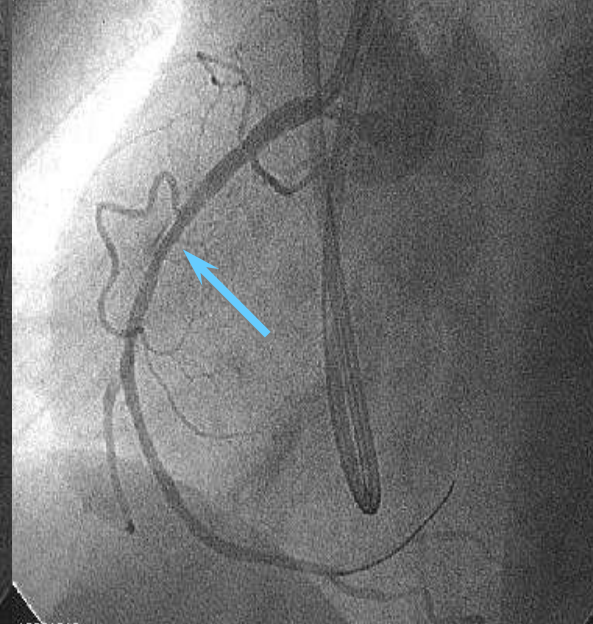
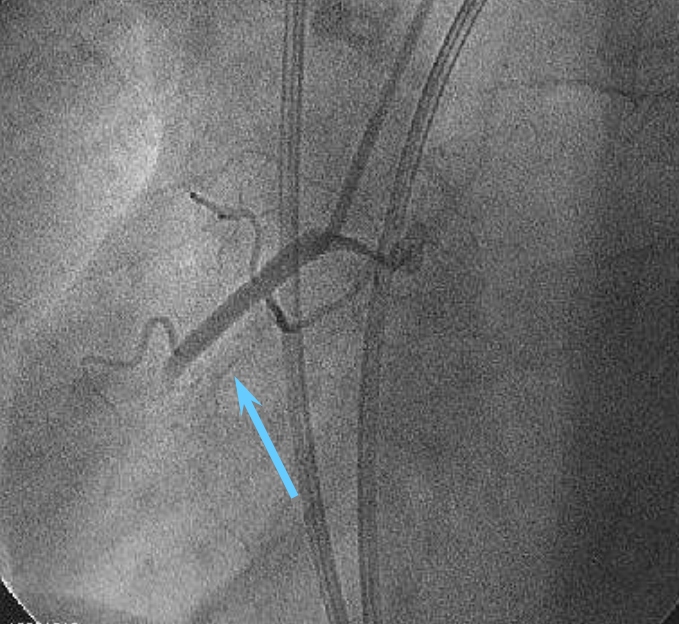
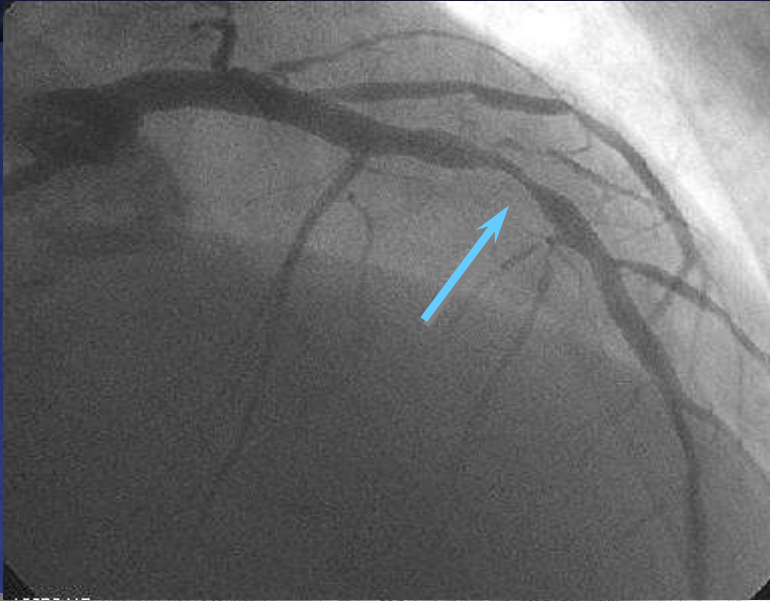


II

IAM INFERIOR

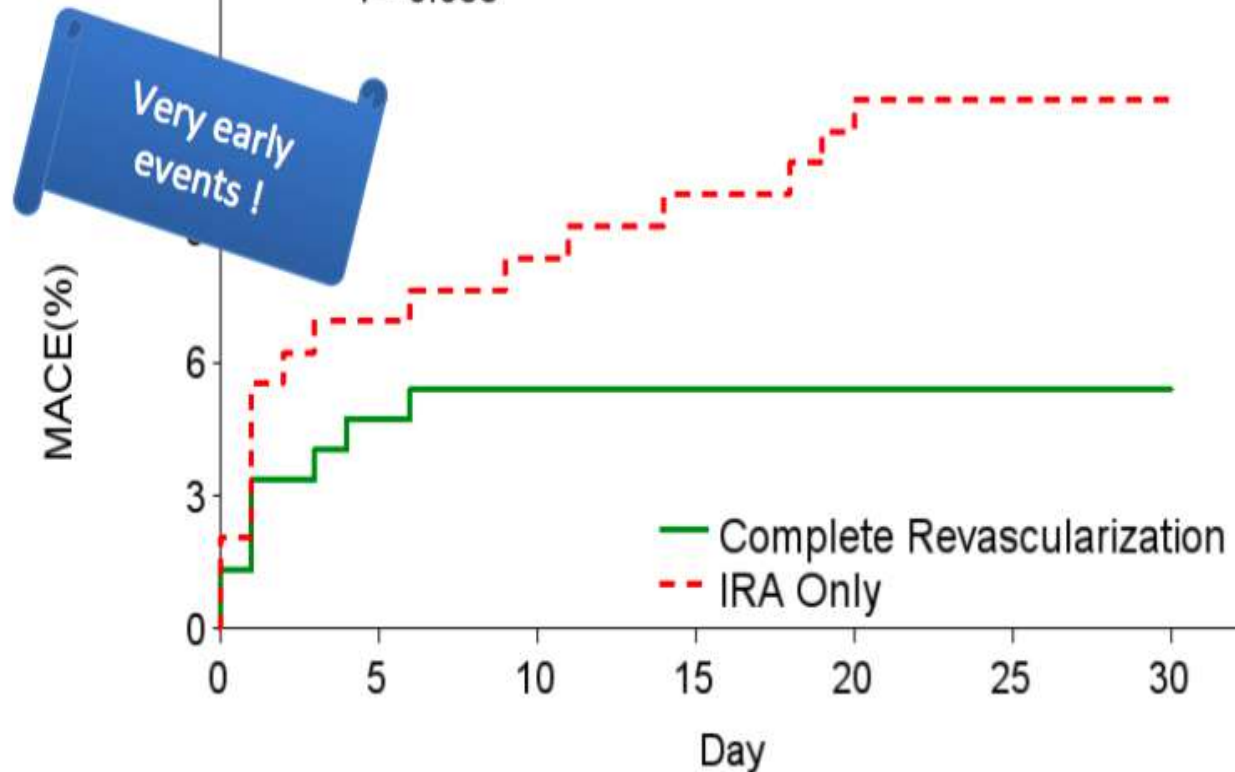


ENFERMEDAD de MULTIPLES VASOS



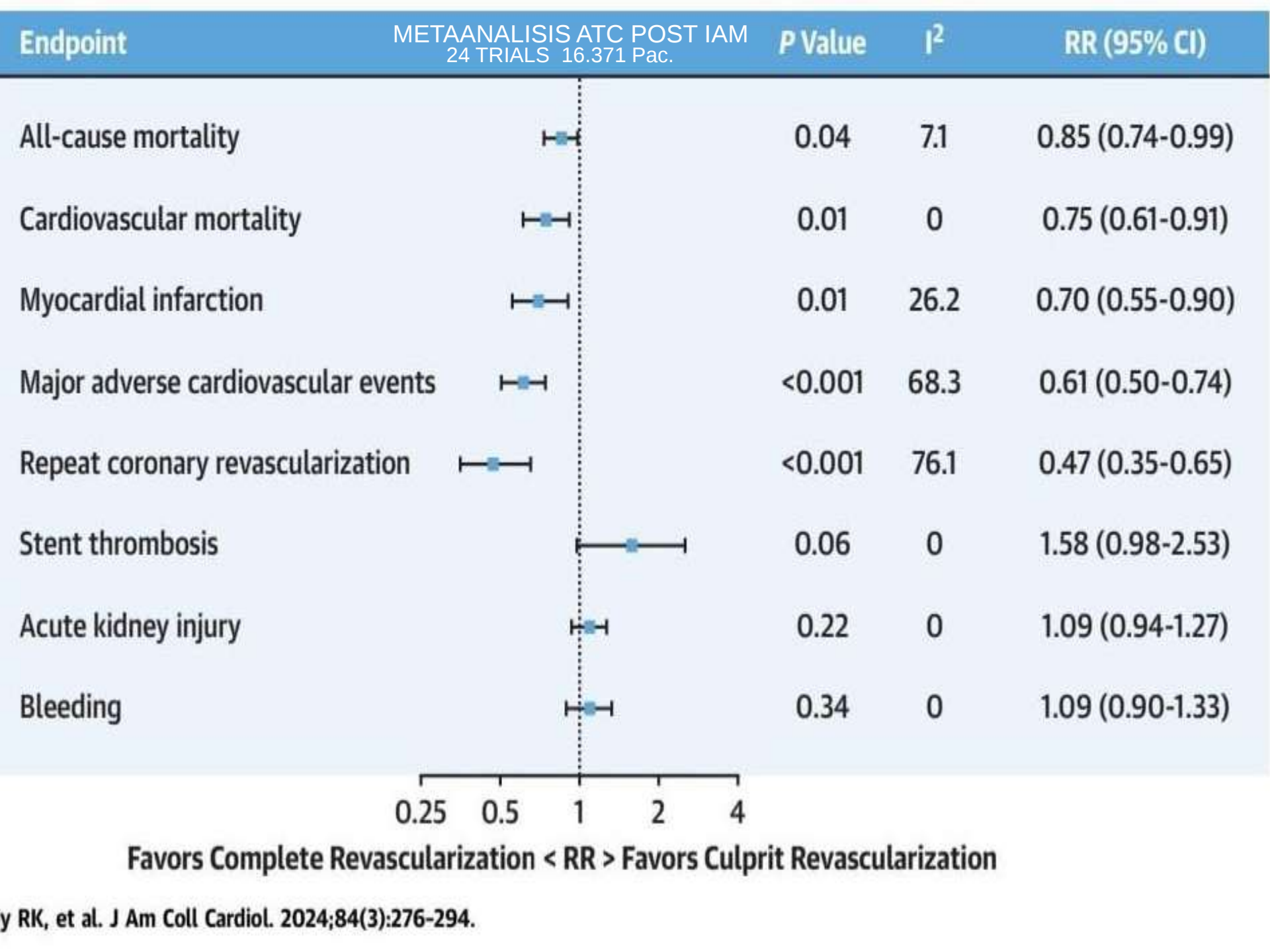
MACE to 30 days

Hazard Ratio(95% CI):0.45(0.19,1.04)
P=0.055



Number at risk:

Complete:150	136	133	133	133	133	133
IRA Only:146	131	128	126	124	123	123



Recomendación MULTIPLES VASOS SAC 2025	Clase	Nivel de Evidencia
Se recomienda la revascularización completa luego de un IAMCEST en pacientes hemodinámicamente estables.	I	A
El momento de tratar las lesiones no culpables puede ser en el mismo procedimiento o diferido (durante la internación o hasta 45 días), sin diferencias en mortalidad o reinfarto; decidir según estabilidad, anatomía, función renal y carga de contraste.	IIa	B

Guías ACC/AHA

ATC post Trombolíticos

(Farmacoinvasiva)

Clase I
A

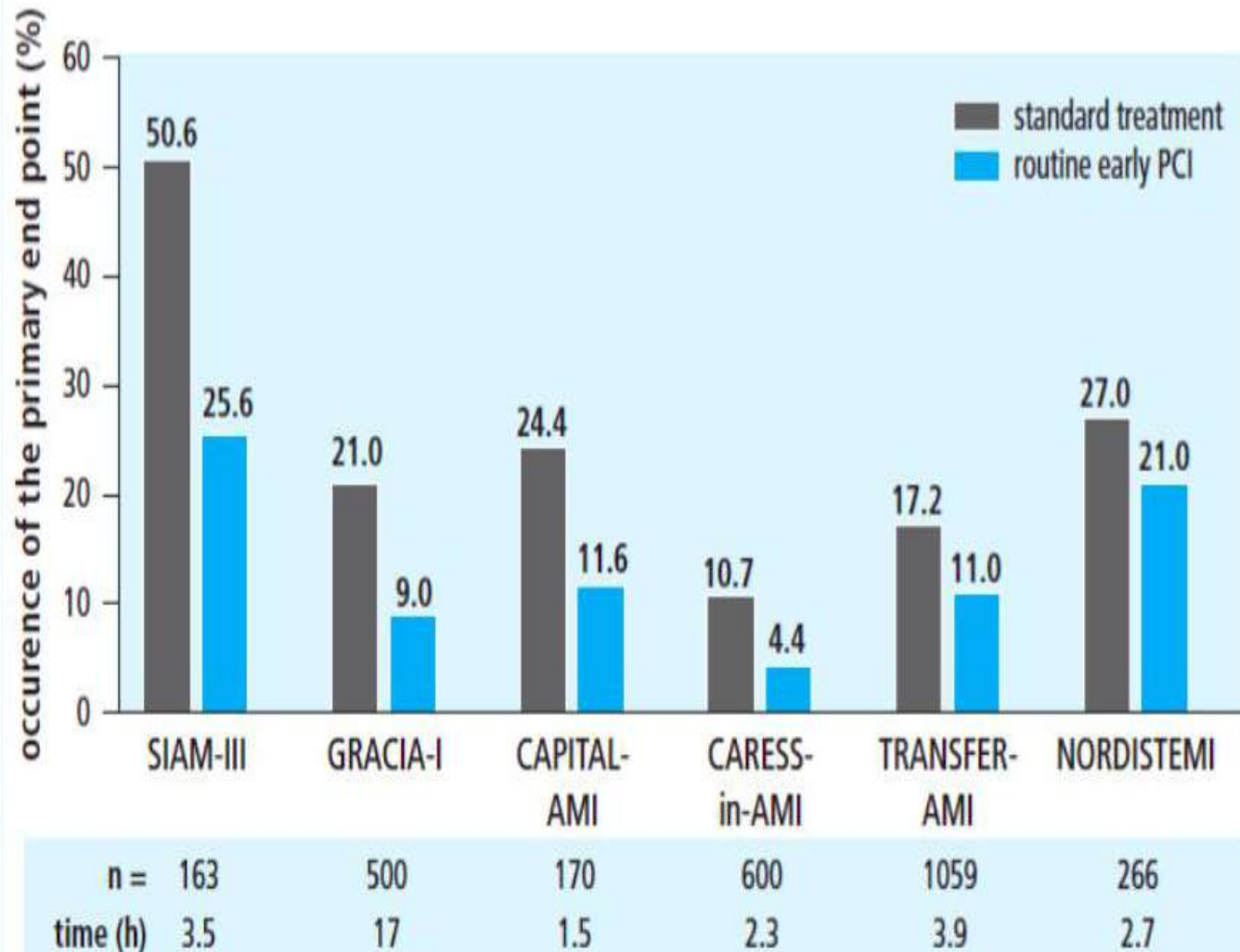
■ En pacientes con anatomía favorable

■ Evidencia de Lesion severa post TL

Isquemia miocárdica espontánea o provocada durante la evolución de un IAM.

ATC de RESCATE

Fibrinolytic therapy (continued)



Class	Level
I	A
I	A
I	A
I	A

From 3-24 h to 2-24 h

INFARTO AGUDO DE MIOCARDIO

Estrategia Fármaco Invasiva

Combinación de los trombolíticos seguida por CCG de rutina y ATC en las lesiones severas, entre las 2 y las 24 hs., en pacientes con trombolisis exitosa.

CLASE I A

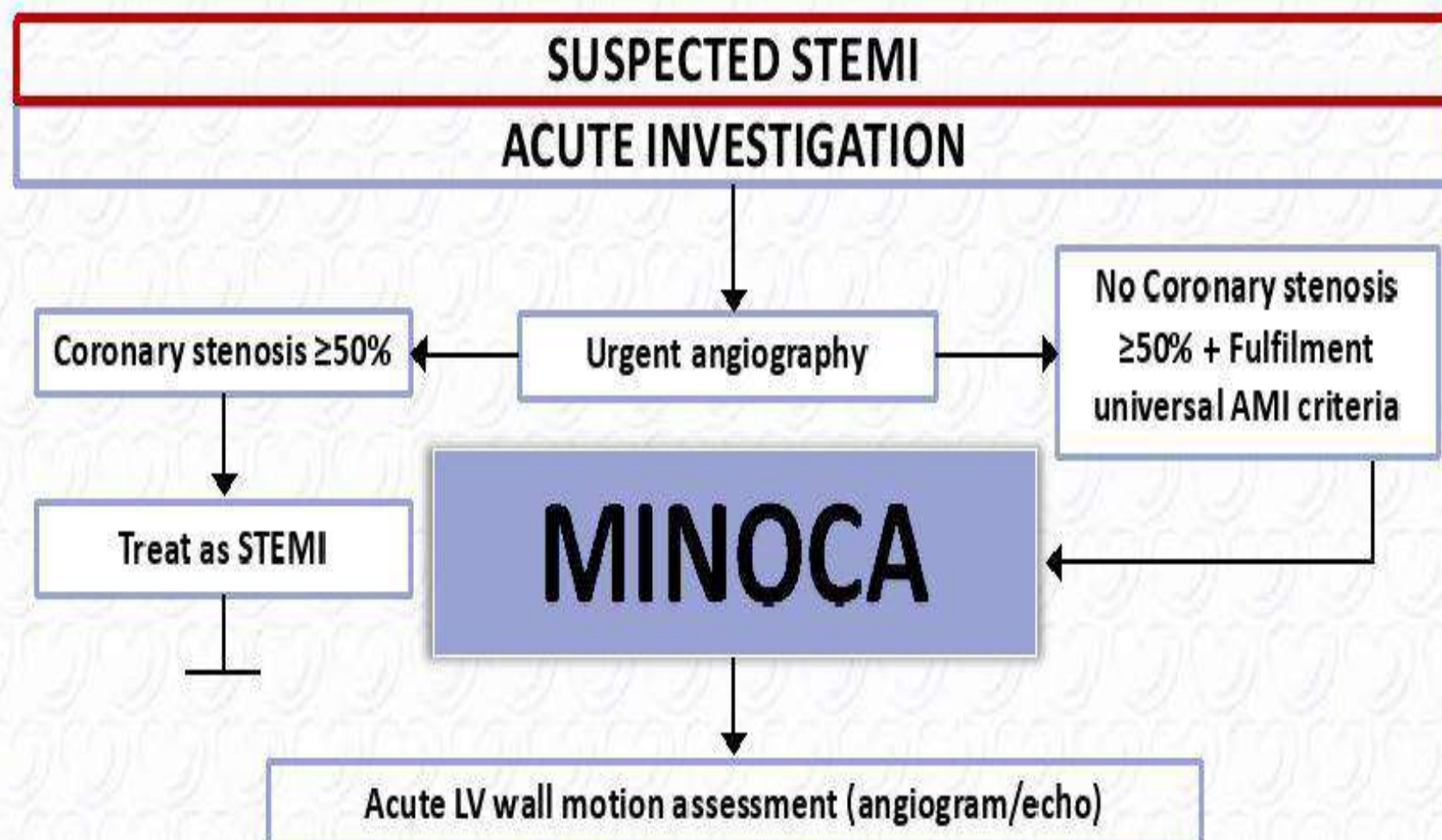
Estrategia Fármaco Invasiva

Conclusiones



**Comparada con Angioplastia
Primaria: IGUAL EFICACIA**

Diagnostic test flow chart in MINOCA



MINOCA



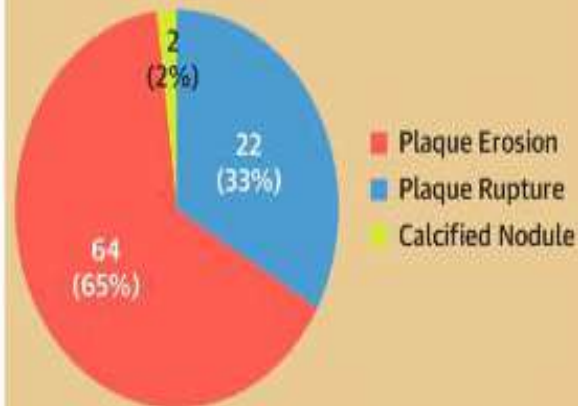
MINOCA

Ath-MINOCA
(n = 99, 52.1%)



- Male > female
- STEMI
- Smoking

Mechanisms



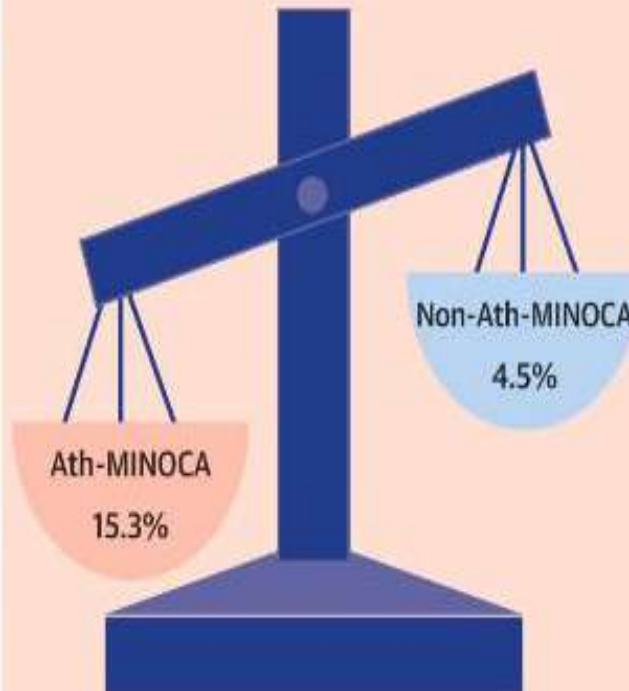
Plaque Erosion

Plaque Rupture

Calcified Nodule

MACE at 12 Months

(Death/MI/TLR/stroke/
rehospitalization)



HR (MACE)

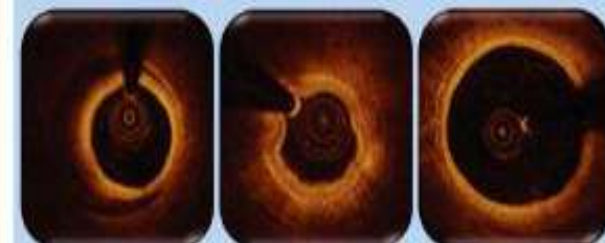
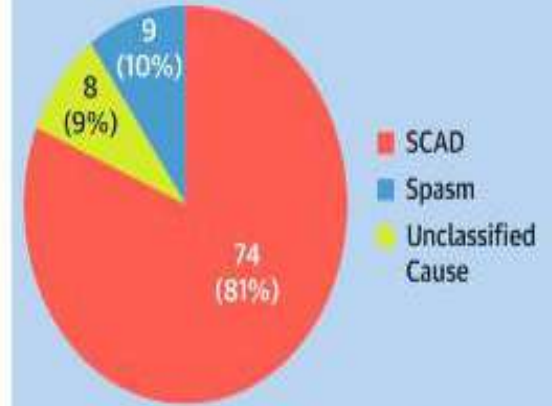
5.36 (95% CI: 1.08-26.55)

Non-Ath-MINOCA
(n = 91, 47.9%)



- Female > male
- NSTEMI
- Hypertension

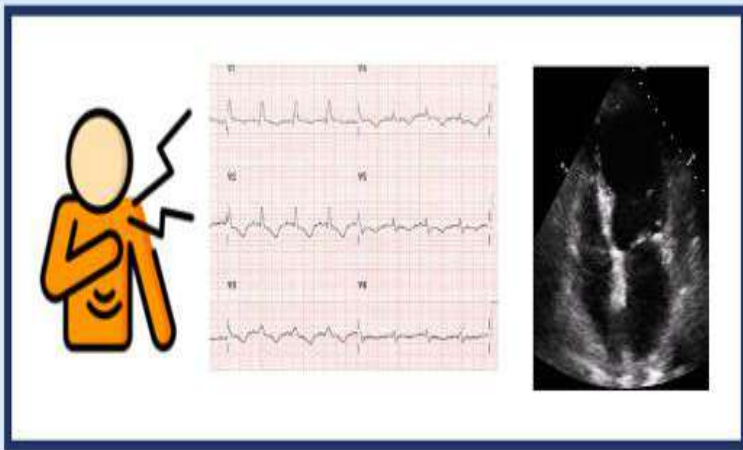
Mechanisms



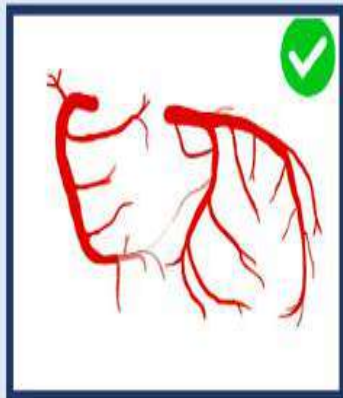
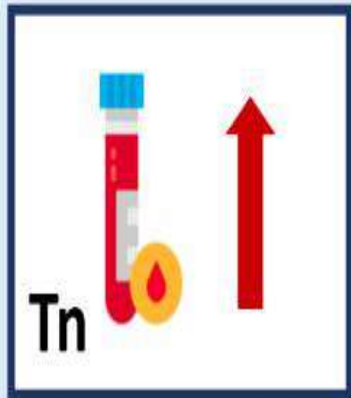
SCAD

Spasm

Unclassified Cause

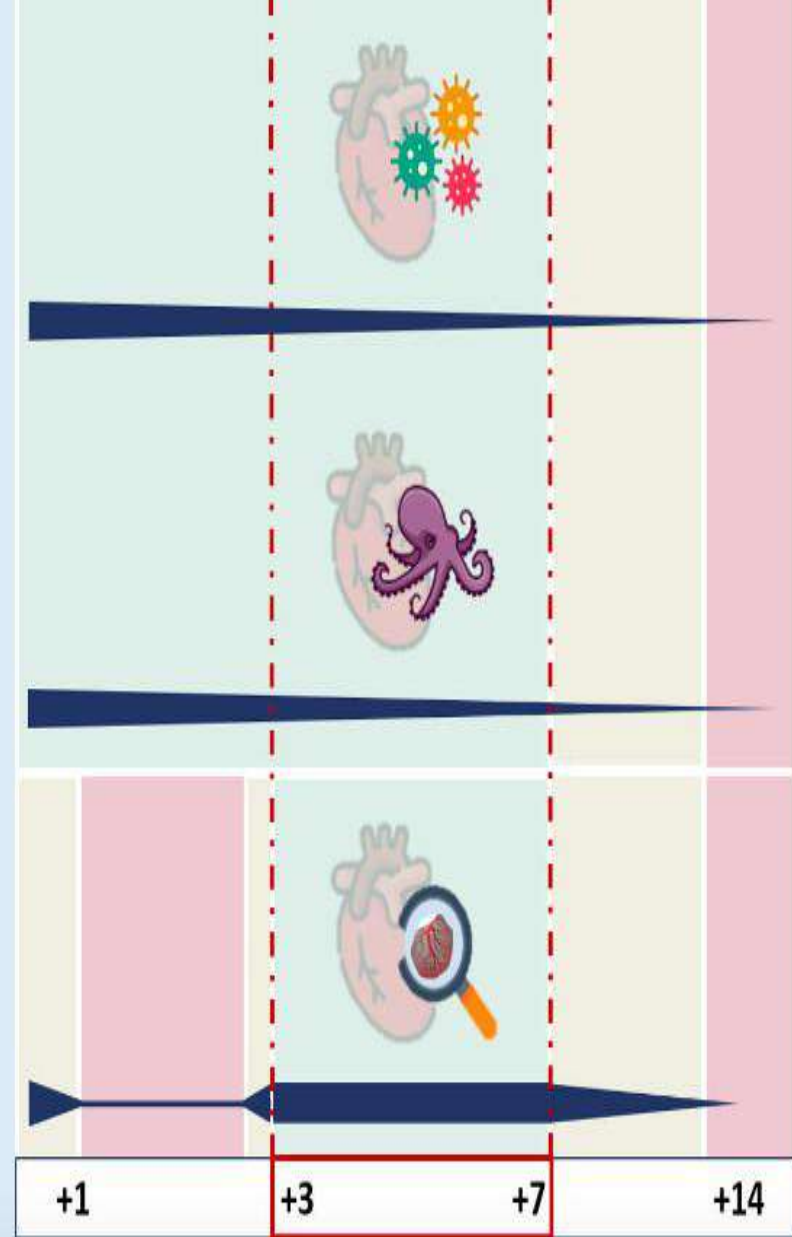


+ IAM 10%



=

MINOCA



Días desde el diagnóstico

Figura 1 En la parte izquierda de la figura se resumen los criterios para el diagnóstico inicial de infarto de miocardio con enfermedad coronaria no obstructiva (MINOCA): a) síntomas de isquemia miocárdica, alteraciones electrocardiográficas compatibles con isquemia y/o alteraciones en la contractilidad segmentaria en el ecocardiograma; b) aumento y/o disminución del valor de troponina con al

Realizar IVUS u OCT en pacientes con sospecha de MINOCA en el cateterismo diagnóstico inicial para identificar rotura, erosión de placa o trombosis.(338,339)(centro con disponibilidad).	<u>Ila</u>	B
Realizar IVUS u OCT para identificar rotura o erosión de placa en pacientes en los que la RMC sugiere infarto por compromiso de vaso <u>epicárdico</u> . (338-340)	<u>Ila</u>	B
Por su mayor definición, la OCT es preferible al IVUS en la caracterización del endotelio coronario. (341)	<u>Ilb</u>	B
Realizar prueba de <u>vasorreactividad</u> intracoronaria en pacientes con sospecha de vasoespasmo coronario, descartando otras causas de MINOCA (DCE, trombosis o embolias) luego de 48 h	<u>Ila</u>	B

PREVENCIÓN SECUNDARIA

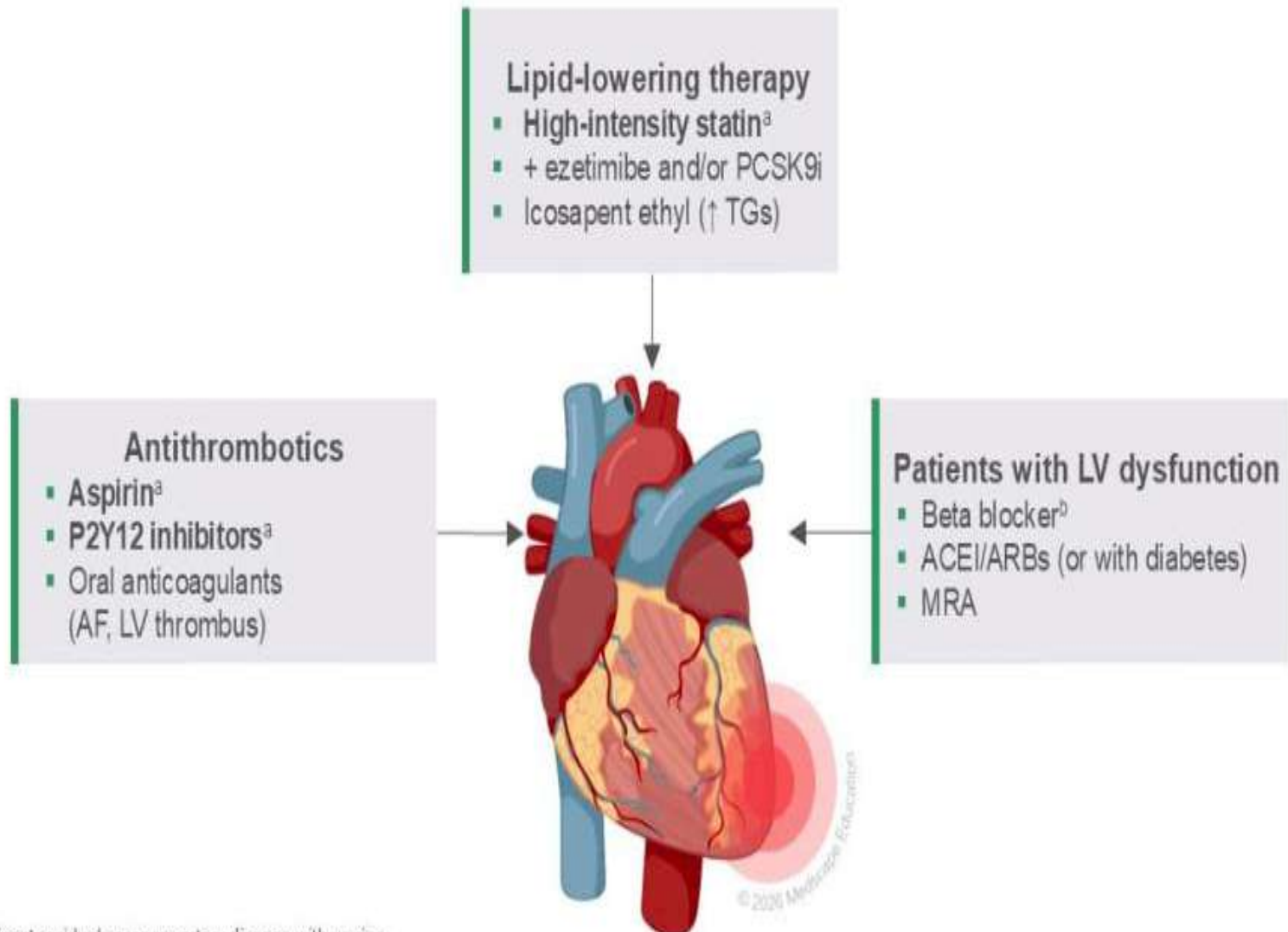
FACTORES DE RIESGO MODIFICABLES

- Evitar el tabaco
- Colesterol total <200 mg/ dl (**LDL <60**)
- Presión arterial <120/80 mmHg
- Glucosa sérica <100 mg/dl
- IMC < 25 kg/m²
- Dieta baja en grasas saturadas y carbohidratos refinados
- Actividad física regular
- Dormir adecuadamente

Menos del 5% de la población mantiene una salud cardiovascular ideal



Recommended Medical Therapies for ACS



ROUTINE MAINTENANCE THERAPIES:

Antiplatelet therapy

Lipid lowering therapy

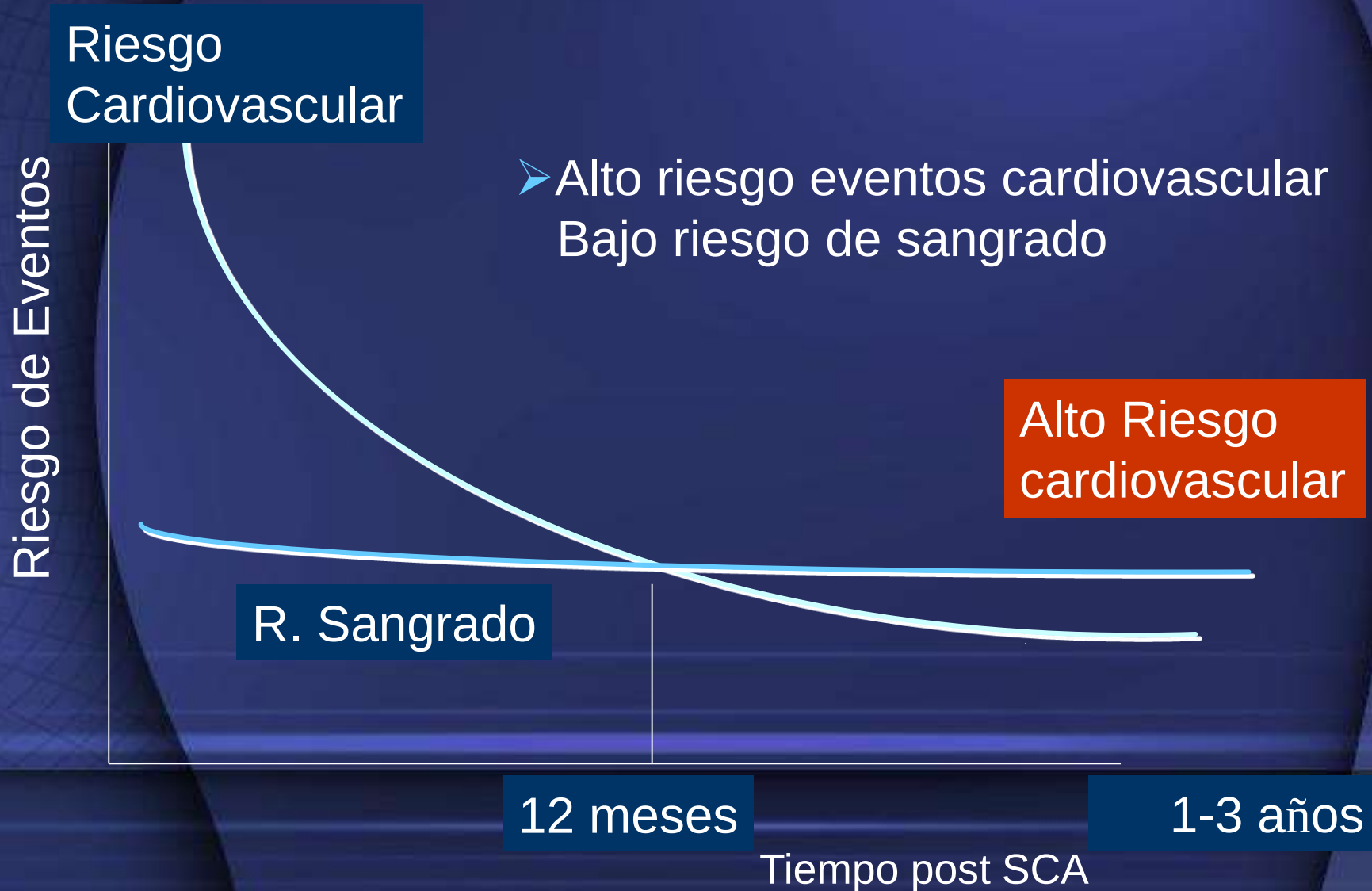
Beta-blockers

ACE inhibitors/ARBs

MRA



Toma de Decisiones de acuerdo a Riesgos despues de un SCA



Antiplatelet and Anticoagulant Therapy for ACS

Guideline Comparisons (cont)



ACS: Antiplatelet and Anticoagulant Therapy

ACC/AHA
2025

ACC/AHA
2013-2014

ESC
2023

Evidence Summary

After PCI	Antiplatelet	DAPT with aspirin and P2Y ₁₂ inhibitors for 12 months in patients without high bleeding risk	✓	✓	✓	Supported by the CLARITY-TIMI 28, COMMIT, and CURE trials
		Preference of ticagrelor and prasugrel over clopidogrel in patients proceeding to PCI	✓ ¹	? [#]	✓ ¹	TRITON-TIMI 38 & PLATO trials: ↓ MACE but ↑ major bleeding with prasugrel or ticagrelor vs clopidogrel
		Preference of prasugrel over ticagrelor in patients who proceed to PCI	?	?	✓	ISAR-REACT-5 trial: ↓ MACE without increased major bleeding with prasugrel vs ticagrelor
		Clopidogrel when prasugrel/ticagrelor are unavailable, cannot be tolerated, or are contraindicated	✓	?	✓	Supported by the CLARITY-TIMI 28, COMMIT, and CURE trials
		De-escalation from DAPT to SAPT with ticagrelor after 1 month in patients at high bleeding risk post PCI	✓	?	✓ ^{**}	TWILIGHT-ACS, ULTIMATE-DAPT, T-PASS, TICO trials: ↓ bleeding without excess in MACE with ticagrelor alone (vs continued DAPT) after 1-3 months



Recommended
as Class 1



Suggested
as Class 2a



Considered
as Class 2b



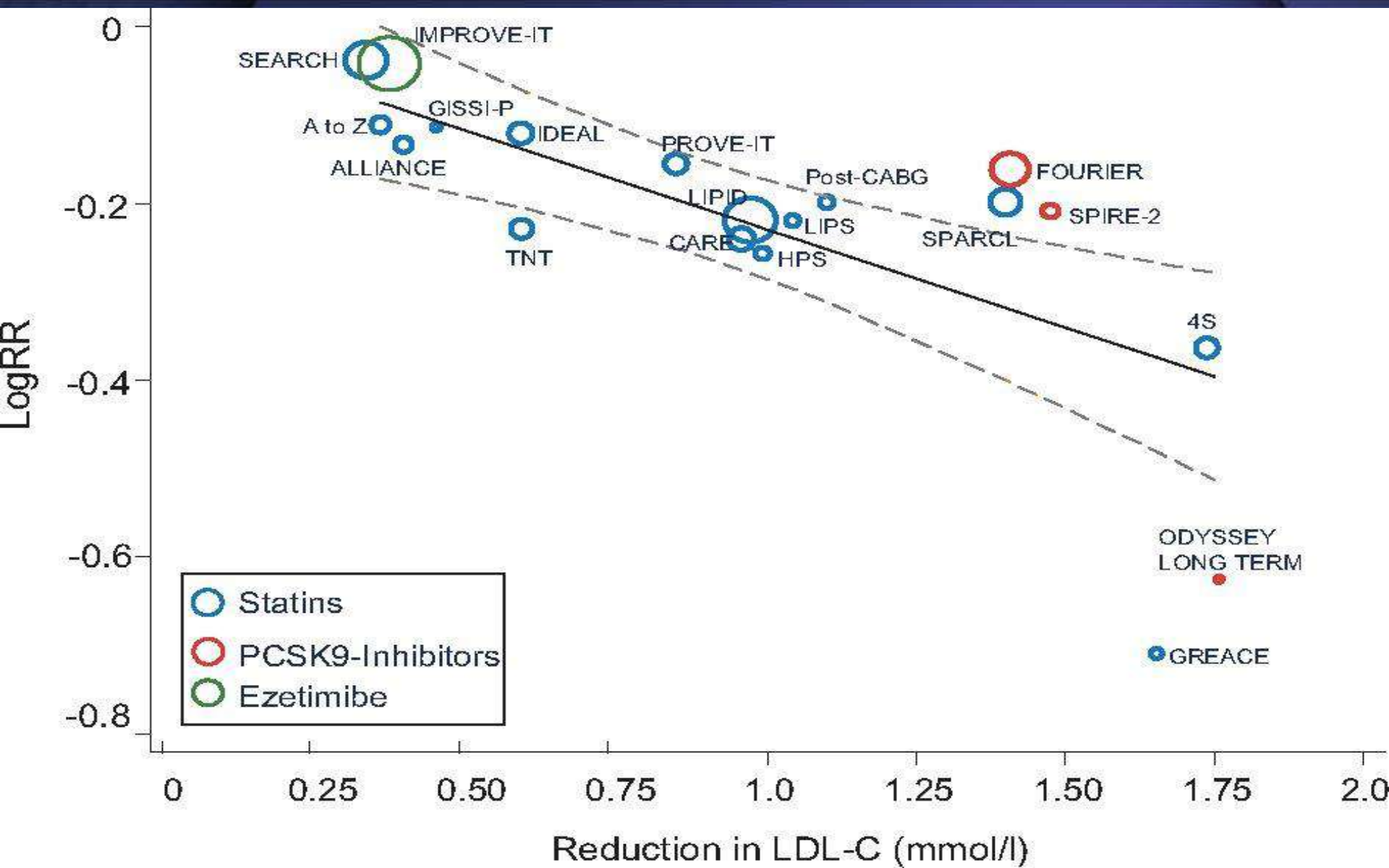
Not Recommended
(Class 3)



Not Addressed

Prevencion 2ria

Niveles LDL



Endothelial function

Oxidative stress

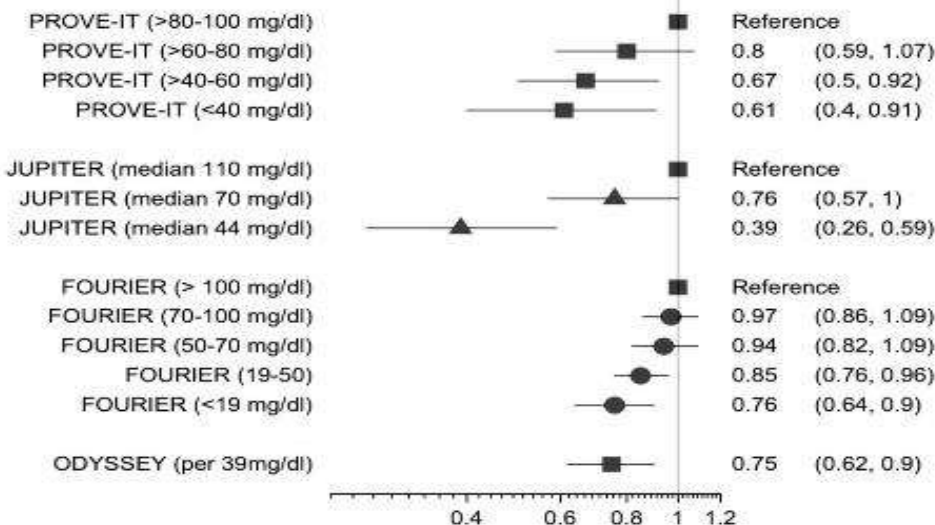
Inflammation

LDL-C reduction

The earlier the better, the lower the better for longer

Study

Relative Risk



- Stroke/TIA
- Myocardial infarction
- Mesenteric ischemia
- Lower extremity
- Amputation
- Erectile dysfunction
- Ischemic cardiomyopathy
- Renal ischemia

- Neurodegenerative disorders
- Vascular dementia
- Alzheimer's disease
- Parkinson's disease

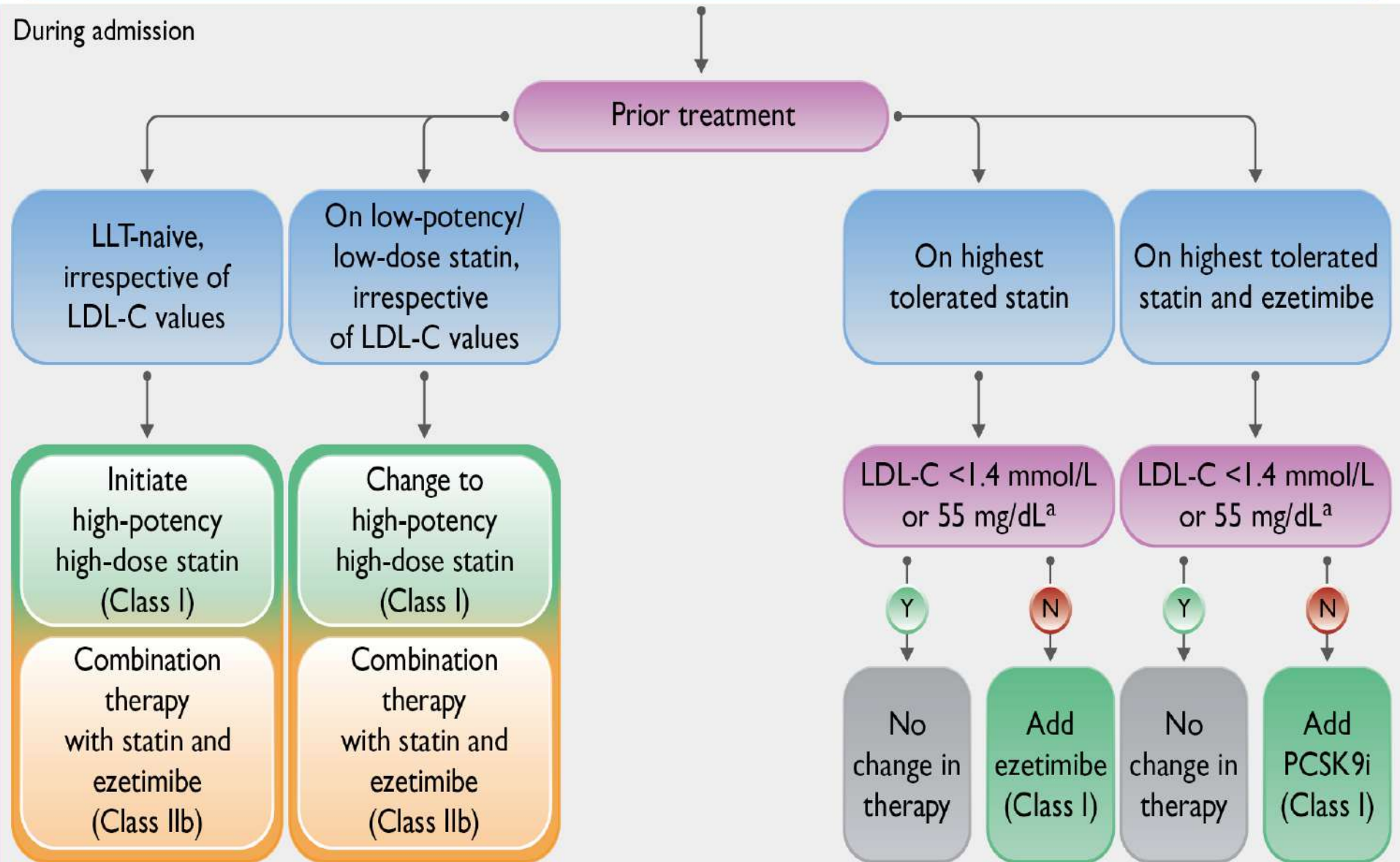
ATHEROSCLEROSIS
(coronary artery diseases; peripheral vascular disease;
renal artery disease; mesenteric artery disease;
cerebrovascular disease)

Aortic aneurysms, aortic valve sclerosis

HIPOLIPEMIANTES 2026

HIPOLIPEMIANTES 2026			Antisense Therapy		
	Small molecules	Monoclonal antibody	ASO	siRNA	Macrocyclic Peptides
Example	Statins	Evo/Alirocumab	Pelacarsen	Inclisiran	MK-0616
Structure	Organic compound	Protein (mAb)	RNA simple chain	RNA double chain	Protein (Macrocytic Peptide)
Mechanism	Block enzyme	Block protein	Block RNAm translation		Block interaction protein-protein
“Off target” AE	Yes	No			
Immunogenicity	No	Low			
Efficacy	50% LDLc	60% LDLc	90% Lp(a)	50% LDLc	60% LDLc
Response variability	High	Low			Medium
Administration	Oral	Subcutaneous			Oral
Frequency	Daily	Every 2 weeks	Every 4 weeks	Every 6 months	Daily

Lipid lowering therapy in ACS patients

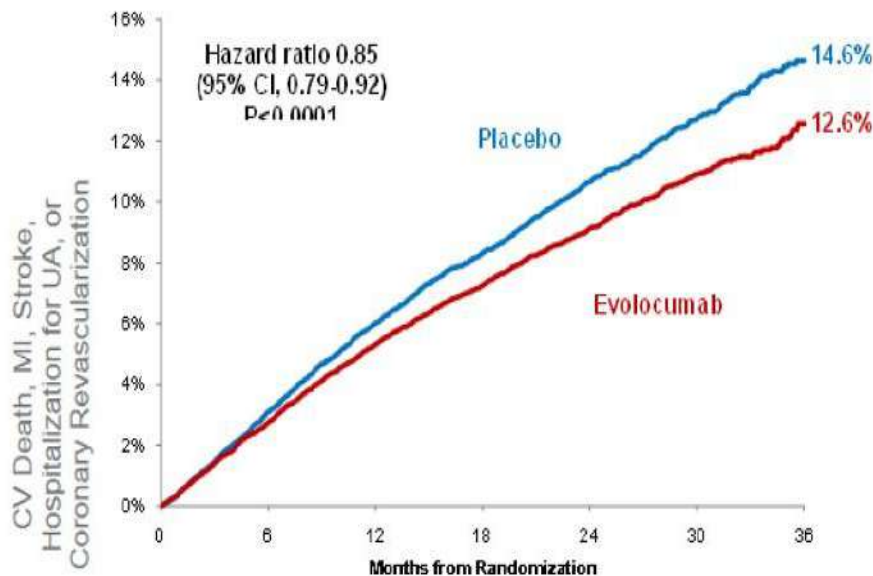


FOURIER and ODYSSEY Outcomes

CV Risk Reduction With PCSK9 Inhibitors

FOURIER: Benefit of evolocumab in patients with stable ASCVD + moderate- or high-intensity statin (N = 27,564)^[a]

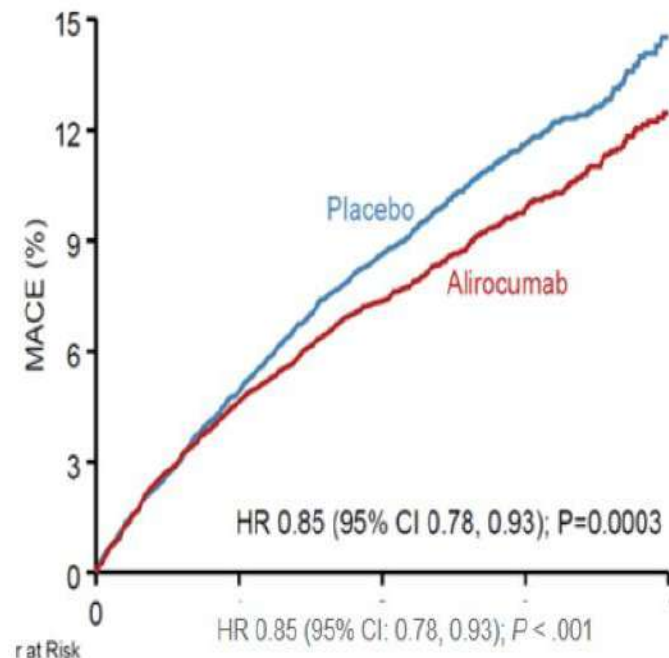
Primary endpoints: CV death, MI, stroke, coronary revascularization, or hospital admission for UA



Limitation: Short duration of follow-up (median 2.2 y); infrequent use of ezetimibe for CV efficacy

ODYSSEY OUTCOMES: Benefit of alirocumab in patients with recent ACS + maximal statin therapy (N = 18,924)^[b]

Primary endpoint: MACE



Limitation: Infrequent use of ezetimibe for CV efficacy

a. Sabatine MS, et al; for the FOURIER Steering Committee and Investigators. N Engl J Med. 2017;376:1713-1722; b. Schwartz GG, et al; for the ODYSSEY OUTCOMES Committees and Investigators. N Engl J Med. 2018;379:2097-2107



Comprehensive Review of Statin-intolerance and the practical application of Bempedoic Acid



Bempedoic acid, an ATP citrate lyase inhibitor plays a crucial role in lowering LDL-c levels.

Bempedoic Acid significantly reduced the risk of major cardiovascular events.

Bempedoic acid should be explored as an additional therapy to achieve required LDL-C levels in statin-intolerant patients.

Heart disease is leading cause of death in the United States

- Elevated LDL-C have been consistently associated with increased risk of CVD
- Statins are most commonly prescribed medication for LDL-C reduction and have shown significant efficacy in reducing LDL-C Levels
- 7-29% patients reported adverse effects due to statins



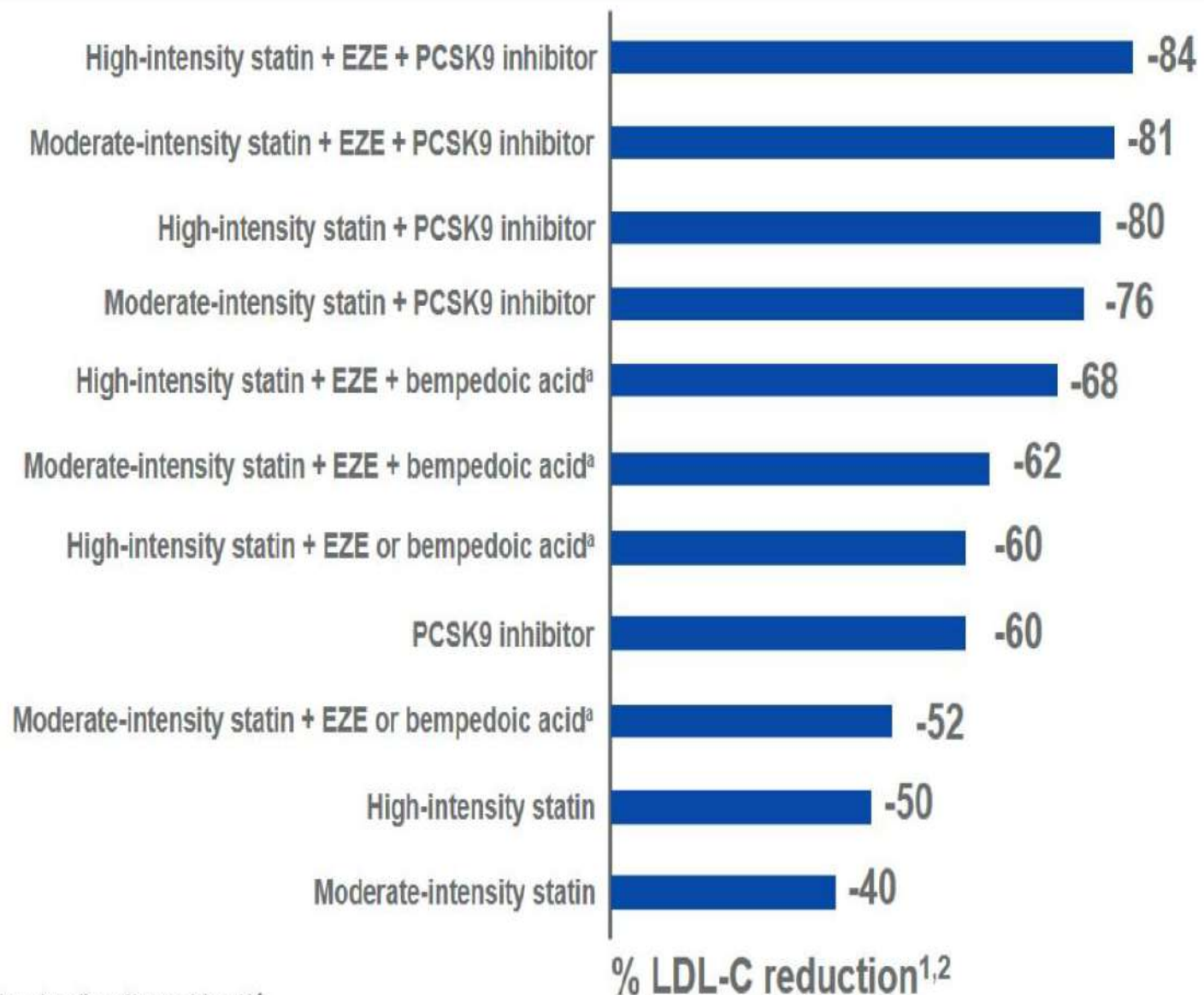
FDA approved Bempedoic Acid (BA), reduces hepatic cholesterol, raises LDL receptor expression and increases LDL cholesterol clearance from circulation

- Bempedoic acid (ETC-1002), is an oral agent with:
- newer first-in-class mechanism inhibits adenosine triphosphate (ATP)-citrate lyase inhibitor leading to lower LDL-C
- Due to similarity in the mechanism of action, like statins, BA decreases hepatic generation of cholesterol, upregulates the LDL receptor expression on liver and clears the circulating LDL-C from the blood

Due to absence of ACSVL1 in skeletal muscle, bempedoic acid potentially avoids the most common side effect encountered with statin, which is myotoxicity.

- Bempedoic acid significantly lowered LDL-C in 4 phase 3 placebo RCTs.
- Bempedoic acid is associated with increase in uric acid and of Gout.
- New-onset diabetes was lower with bempedoic acid than placebo

Combination Therapy to Reach Guideline-Recommended Goals



^aBased on estimation of 20% lowering effect of bempedoic acid.²

1. Masana L, et al. Curr Cardiol Rep. 2020;320:122-128; 2. Nissen SE, et al. N Engl J Med. 2023;388:1353-1364.

2024 ESC Guideline Recommendations for Lipid-Lowering Drugs in Patients With CCS

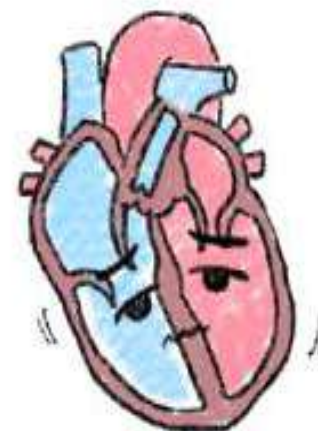
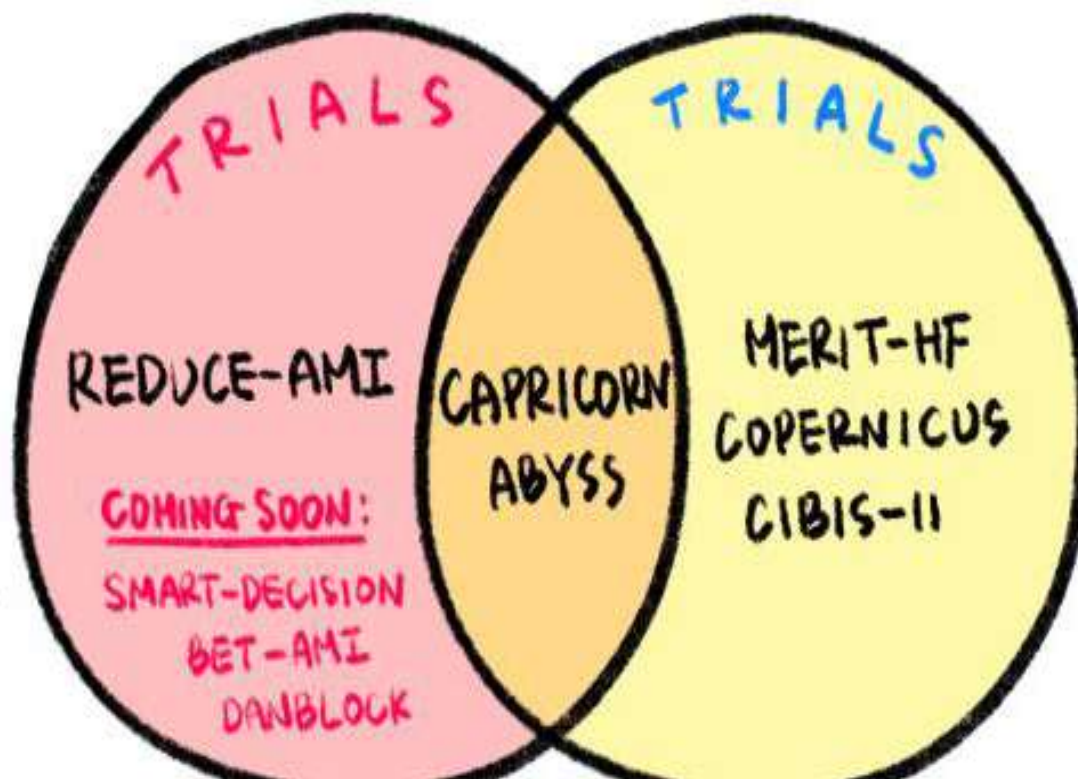
2024 ESC Guideline Recommendations for Lipid-Lowering Drugs in Patients With CCS		
Lipid-lowering treatment with an LDL-C goal of < 1.4 mmol/L (55 mg/dL) and a ≥ 50% reduction in LDL-C vs baseline is recommended	Class I	Level A
A high-intensity statin up to the highest tolerated dose to reach the LDL-C goals is recommended for all patients with CCS	Class I	Level A
If a patient's goal is not achieved with maximum tolerated dose of statin, combination with ezetimibe is recommended	Class I	Level B
For patients who are statin intolerant and do not achieve their goal on ezetimibe, combination with bempedoic acid is recommended	Class I	Level B
For patients who do not achieve their goal on a maximum tolerated dose of statin and ezetimibe, combination with a PCSK9 inhibitor is recommended	Class I	Level A
For patients who do not achieve their goal on a maximum tolerated dose of statin and ezetimibe, combination with bempedoic acid should be considered	Class IIa	Level C

Recomendaciones DISFUNCION DE VI POST IAM SAC 2025	Clase	Nivel de evidencia
En pacientes con fracción de eyección $\leq 40\%$, insuficiencia cardíaca, hipertensión, diabetes mellitus se recomienda el uso de IECA o BRA (129,130,134,135) B. Bloqueantes	I	A
En pacientes con síndromes coronarios agudos y una fracción de eyección $\leq 40\%$ con síntomas de insuficiencia cardíaca y/o diabetes mellitus, se recomiendan los antagonistas de la aldosterona (138,139)	I	A

DOES THIS PATIENT NEED BETA BLOCKERS?

POST-ACUTE
CORONARY SYNDROME

HEART FAILURE WITH
REDUCED EJECTION FRACTION

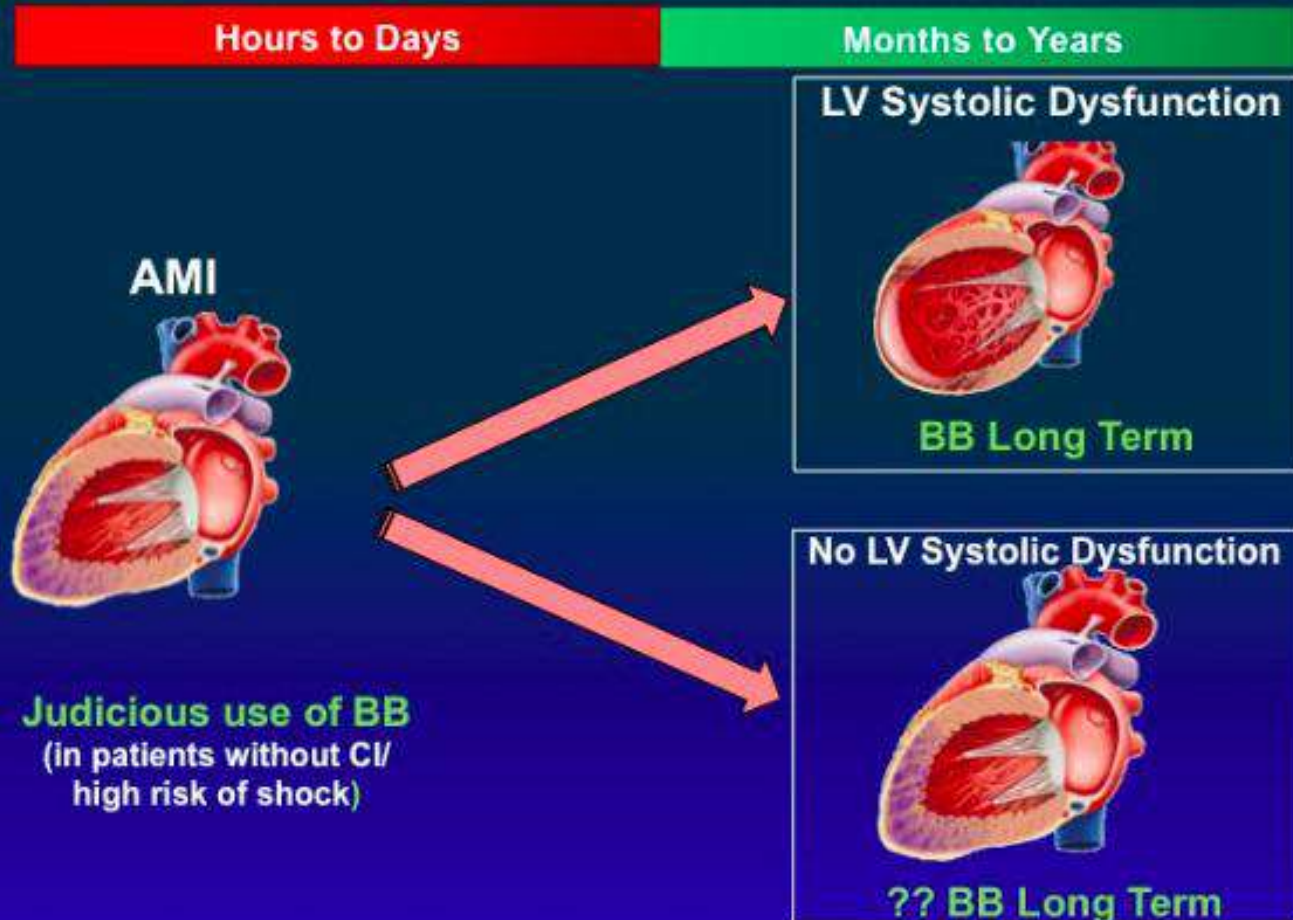


<40%

Beneficio de la adherencia a largo plazo

Betabloqueantes

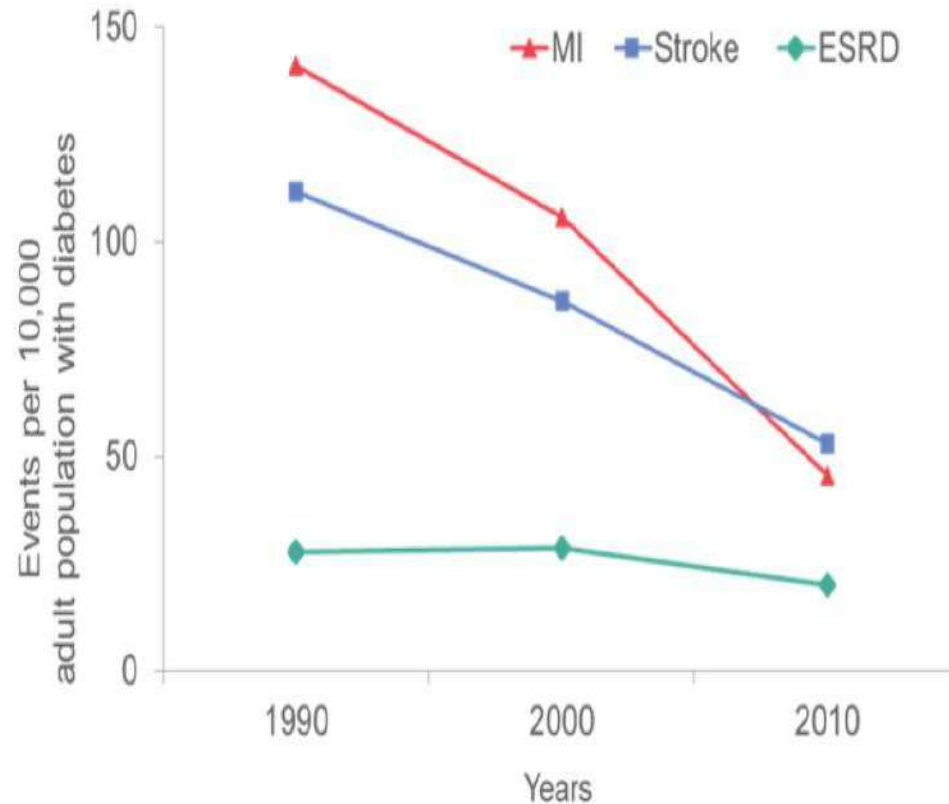
Evidence Based Use of Beta-Blockers



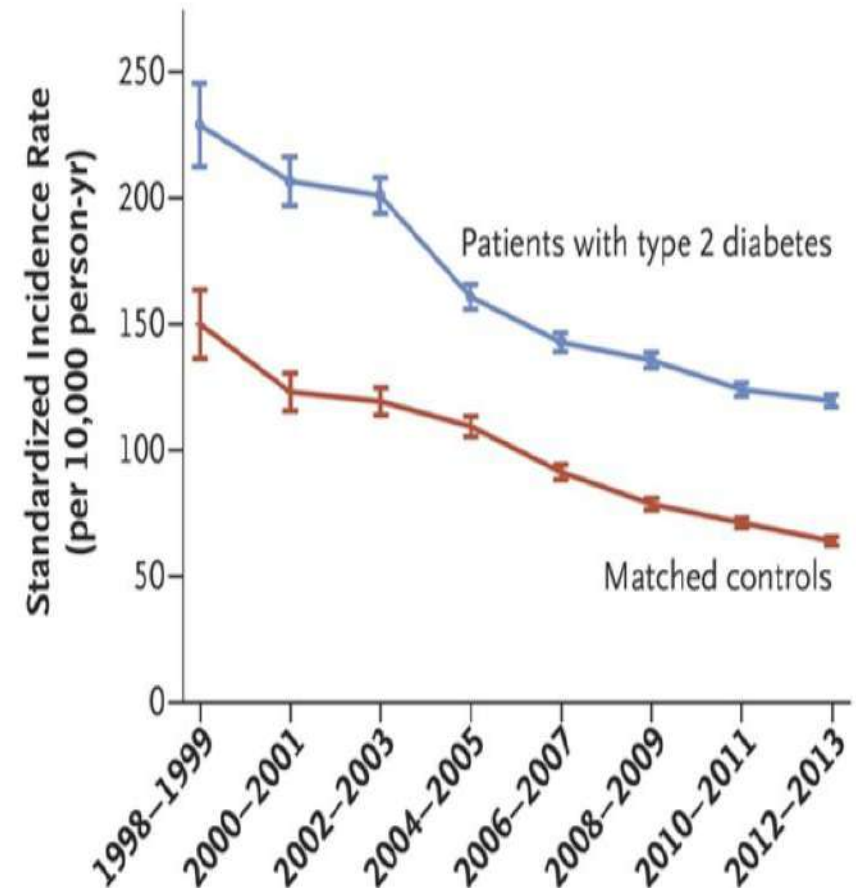
Fey < 40% -- Isquemia Residual

CV Risk in Type 2 Diabetes

Reduction of MI and Stroke in Diabetes¹



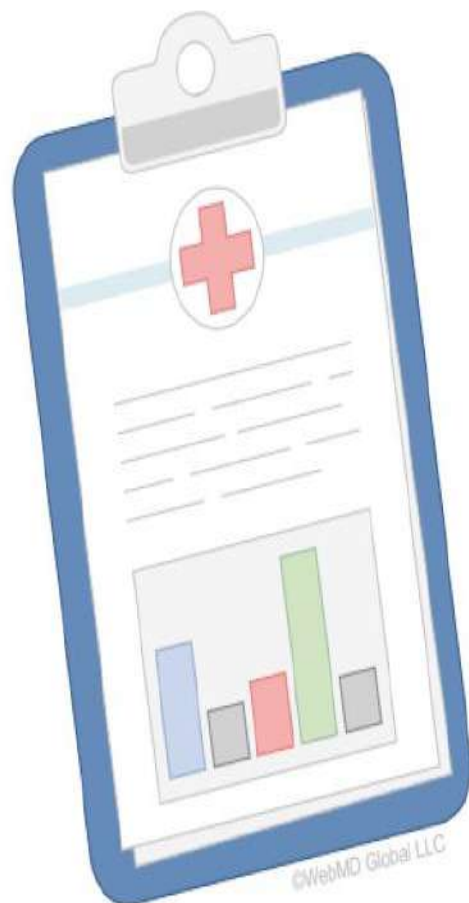
CV Death in Diabetes²



ESRD, end-stage renal disease; MI, myocardial infarction.

1. Adapted from Gregg, et al. N Engl J Med. 2014;370:1514-1523; 2. Rawshani A, et al. N Engl J Med. 2017;376:1407-1418.

Glucose-Lowering Medications for Patients With Type 2 Diabetes to Reduce CV Risk



Risk assessment for patients with Type 2 Diabetes based on the presence of ASCVD/Severe TOD and 10-year CVD risk estimation via SCORE2-Diabetes

Metformin (Class IIa)		Metformin SGLT2 inhibitor GLP-1 RA (Class IIb)	GLP-1 RA ^a SGLT2 inhibitor ^b (Class 1)
Low risk	Moderate risk	High risk	Very high risk
No ASCVD or severe TOD SCORE2-Diabetes < 10%		No ASCVD or severe TOD SCORE2-Diabetes ≥ 10%	
		ASCVD	

GLP-1 RA, glucagon-like peptide-1 receptor agonist; SGLT2, sodium-glucose cotransporter 2.

^a GLP-1 RAs with proven CV benefit: liraglutide, semaglutide (subcutaneous), dulaglutide, efpeglenatide; ^b SGLT2 inhibitors with proven CV benefit: empagliflozin, canagliflozin, dapagliflozin.

GLIFLOZINS: MECHANISTIC INSIGHTS

Pleiotropic effects

Systemic levels

- ↓ Inflammation
- ↓ Oxidative stress
- ↑ Autophagy
- ↑ Mitochondrial function
- ↓ Insulin resistance
- ↓ NHE activity
- ↓ Fibrosis
- ↓ Ferritin
- ↓ Hepcidin

Vasculature

- ↓ Endothelial dysfunction
- ↓ Arterial stiffness
- ↓ Blood pressure
- ↓ Atherogenesis



Liver

- ↑ SIRT1
- ↑ HIF-2 α
- ↑ Erythropoietin



Heart

- ↑ Energetics
- ↓ Epicardial fat
- ↓ Pre- and afterload
- ↑ Ca²⁺ homeostasis
- ↑ Myocardial contractility
- ↑ Ketone body utilization
- ↑ Left-ventricular function

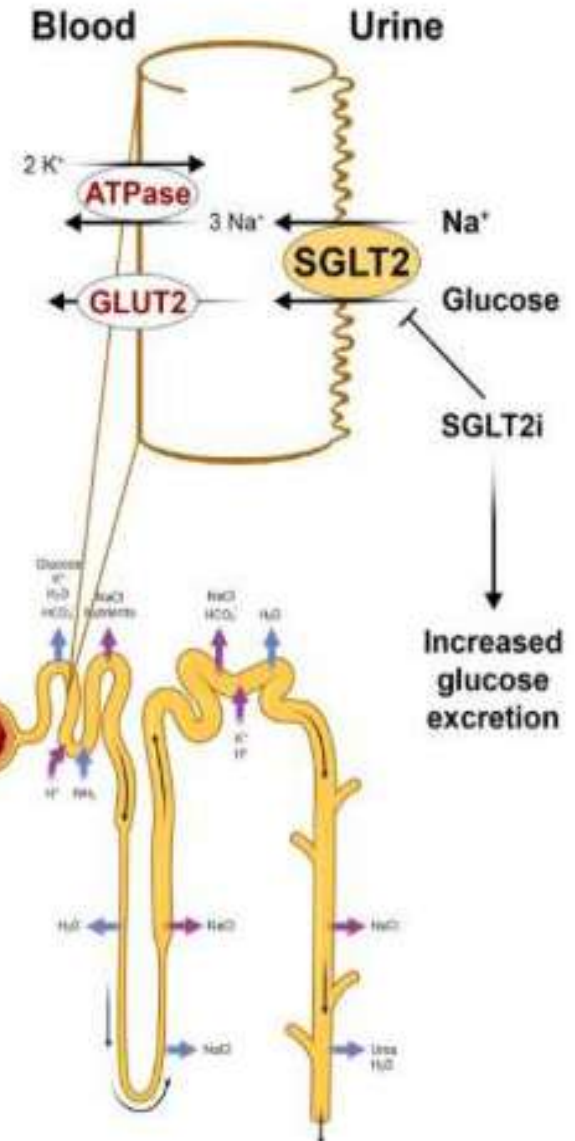


Kidney

- ↑ Glycosuria
- ↑ Natriuresis
- ↑ Diuresis
- ↓ Albuminuria
- ↓ Glomerular pressure
- ↑ Tubuloglomerular feedback
- ↓ Intrarenal RAAS activation



Glucose-lowering effects

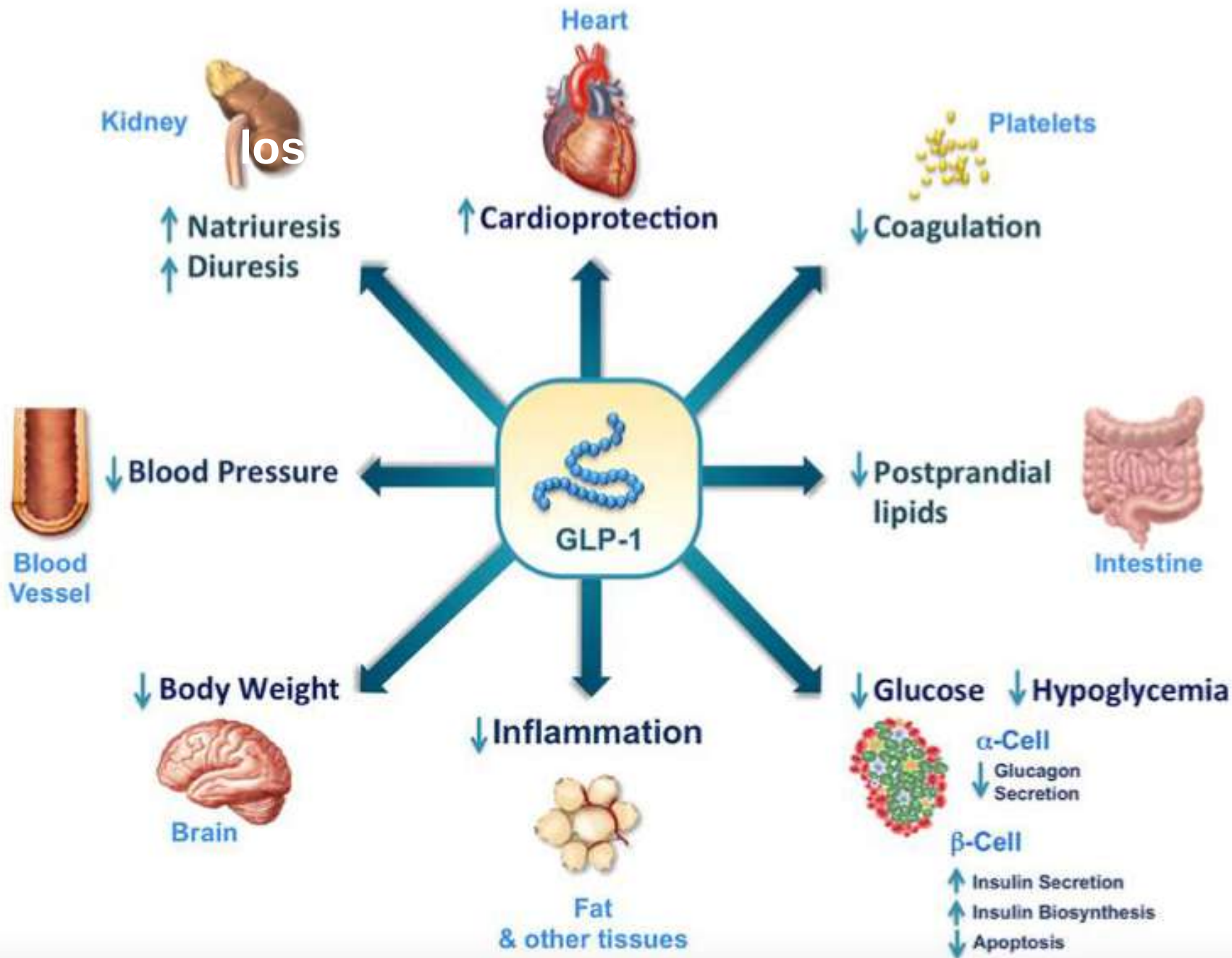


Trials in Heart Failure and a Reduced Ejection Fraction (With or Without Diabetes)

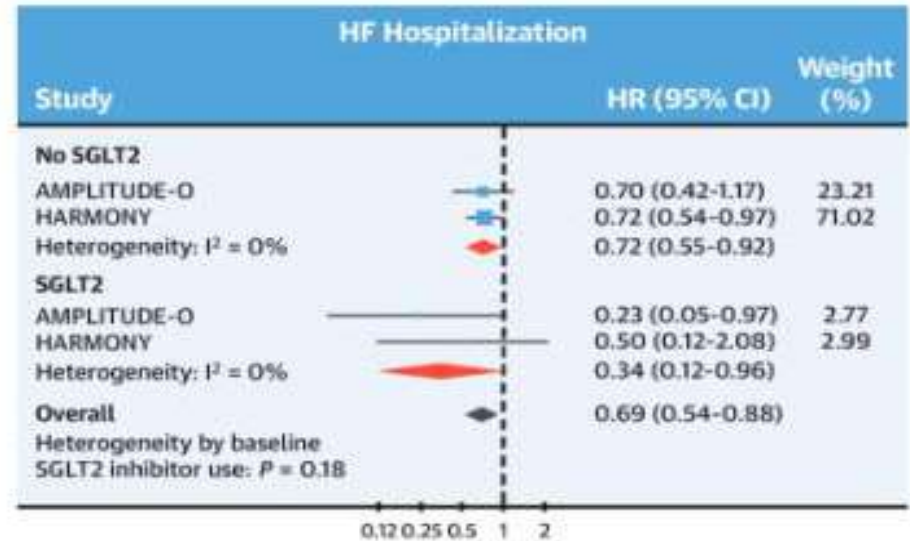
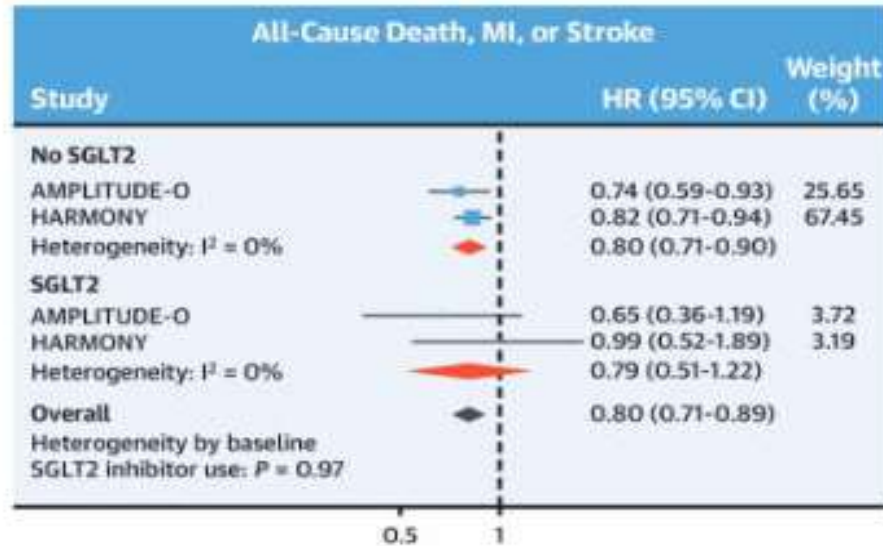
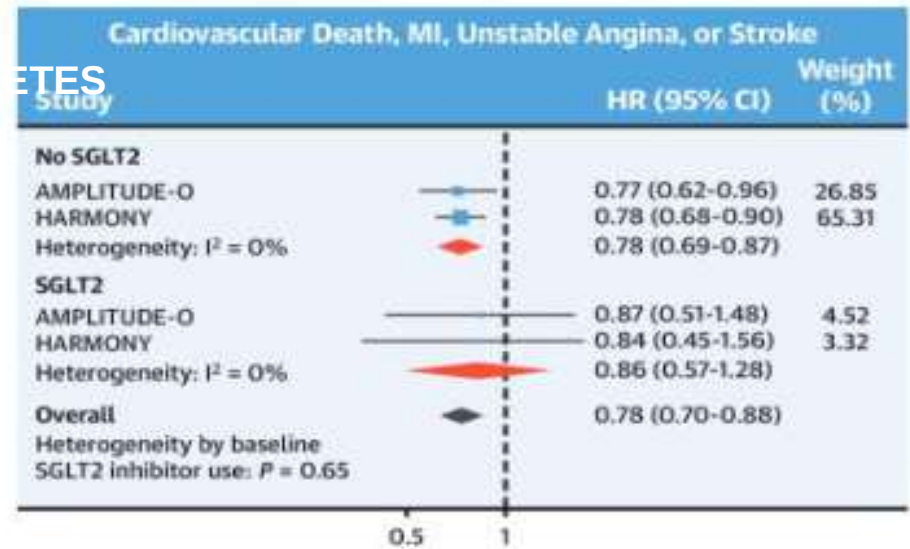
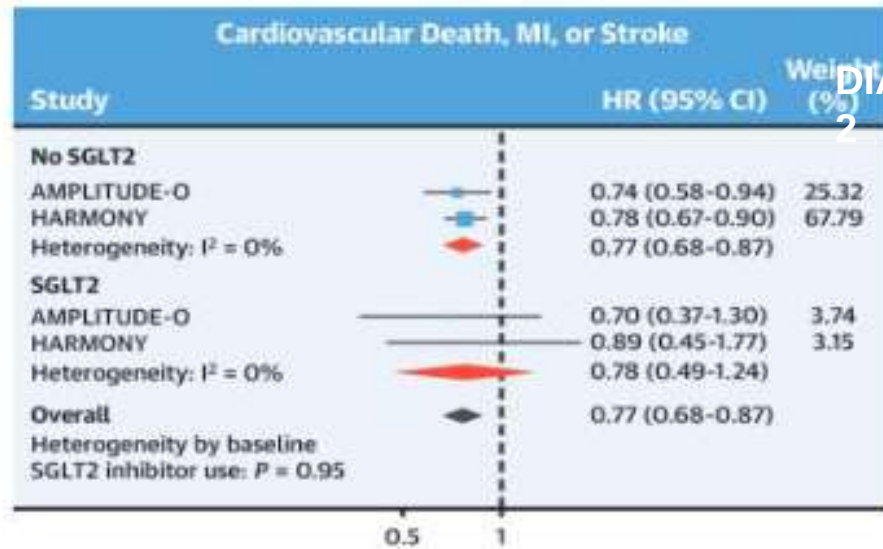
	DAPA-HF (dapagliflozin)	EMPEROR-Reduced (empagliflozin)
Cardiovascular death or hospitalization for heart failure	0.75 (0.65 – 0.85) [877 events]	0.75 (0.65 – 0.86) [823 events]
First hospitalization for heart failure	0.70 (0.59 – 0.83) [549 events]	0.69 (0.59 – 0.81) [588 events]
Renal composite endpoint	0.71 (0.44 – 1.16) [67 events]	0.50 (0.32 – 0.77) [88 events]
Cardiovascular death	0.82 (0.69 – 0.98) [500 events]	0.92 (0.75 – 1.12) [389 events]

Trials in Type 2 Diabetes (With or Without Heart Failure)

GLIFOZINAS EFECTO CV	DECLARE-TIMI58 (dapagliflozin)	EMPA-REG OUTCOME (empagliflozin)
Cardiovascular death or hospitalization for heart failure	0.83 (0.73 – 0.95) [913 events]	0.66 (0.55 – 0.79) [463 events]
First hospitalization for heart failure	0.73 (0.61 – 0.88) [498 events]	0.65 (0.50 – 0.85) [221 events]
Renal composite endpoint	0.53 (0.43 – 0.66) [365 events]	0.54 (0.40 – 0.75) [152 events]
Cardiovascular death in patients with prior myocardial infarction	0.92 (0.61 – 1.23) [183 events]	0.59 (0.44 – 0.79) [183 events]



CENTRAL ILLUSTRATION: Meta-analysis of Cardiovascular Outcomes of Glucagon-Like Peptide 1 Receptor Agonist by Baseline Sodium-Glucose Cotransporter 2 Inhibitor Use



RESUMEN PREVENCIÓN 2^{ra}

Long term treatment after ACS



Discharge on cardio-protective medications, start lifestyle management and refer to cardiac rehab



Arrange OPD review to manage co-morbidities and discuss patient goals and preferences

Treatment goals



Support healthy lifestyle choices



Smoking cessation



Healthy diet



Regular exercise



Healthy weight



Psychosocial management



Continue optimal pharmacological and cardio-protective treatment



Antithrombotic therapy



Lipid-lowering therapy



Annual influenza vaccination



Promote drug adherence and persistence + other treatments as appropriate^a



Reach and sustain risk factor treatment targets



Systolic BP <130 mmHg and diastolic BP <80 mmHg (if tolerated)^b

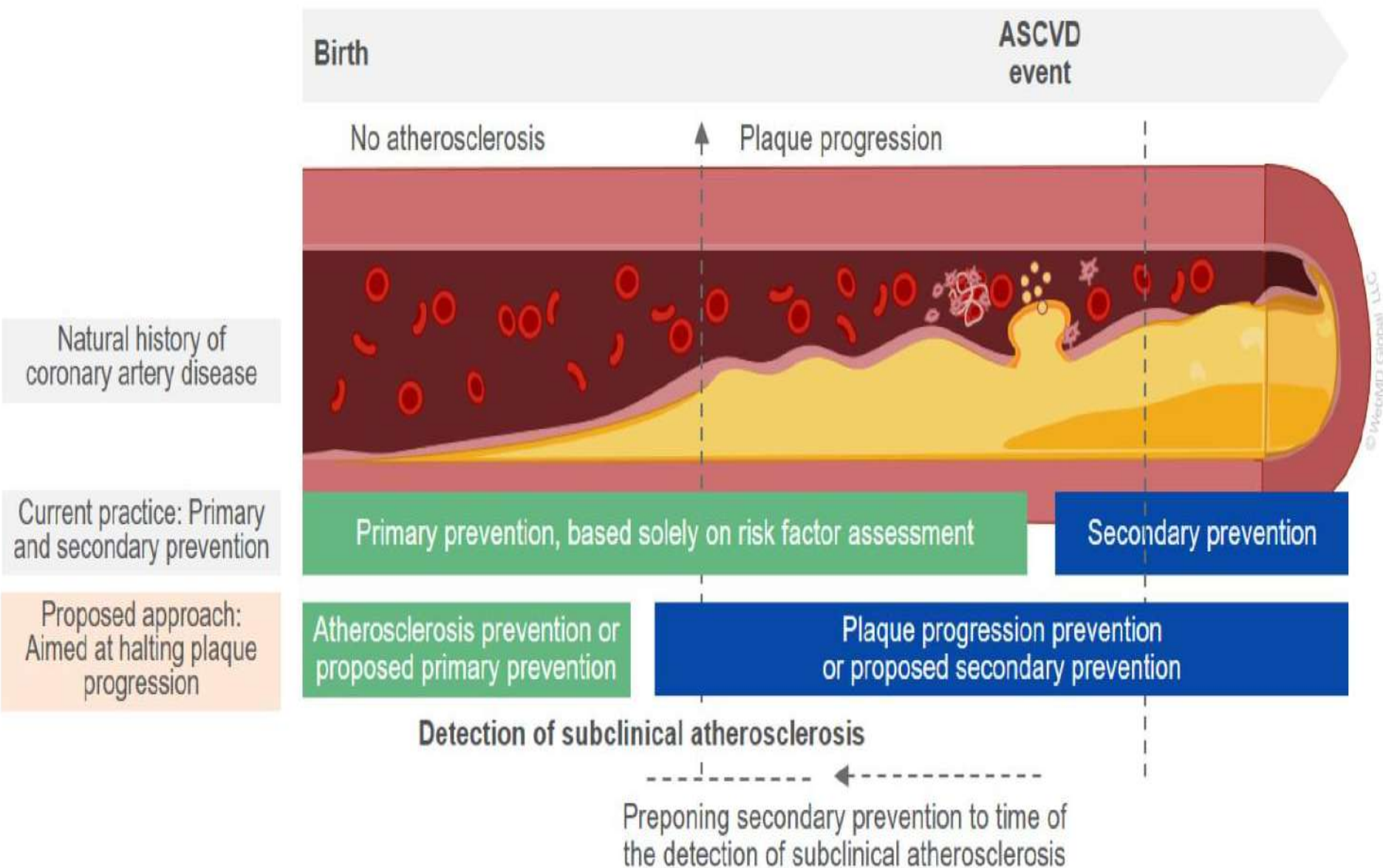


LDL-C <1.4 mmol/L (<55 mg/dL)



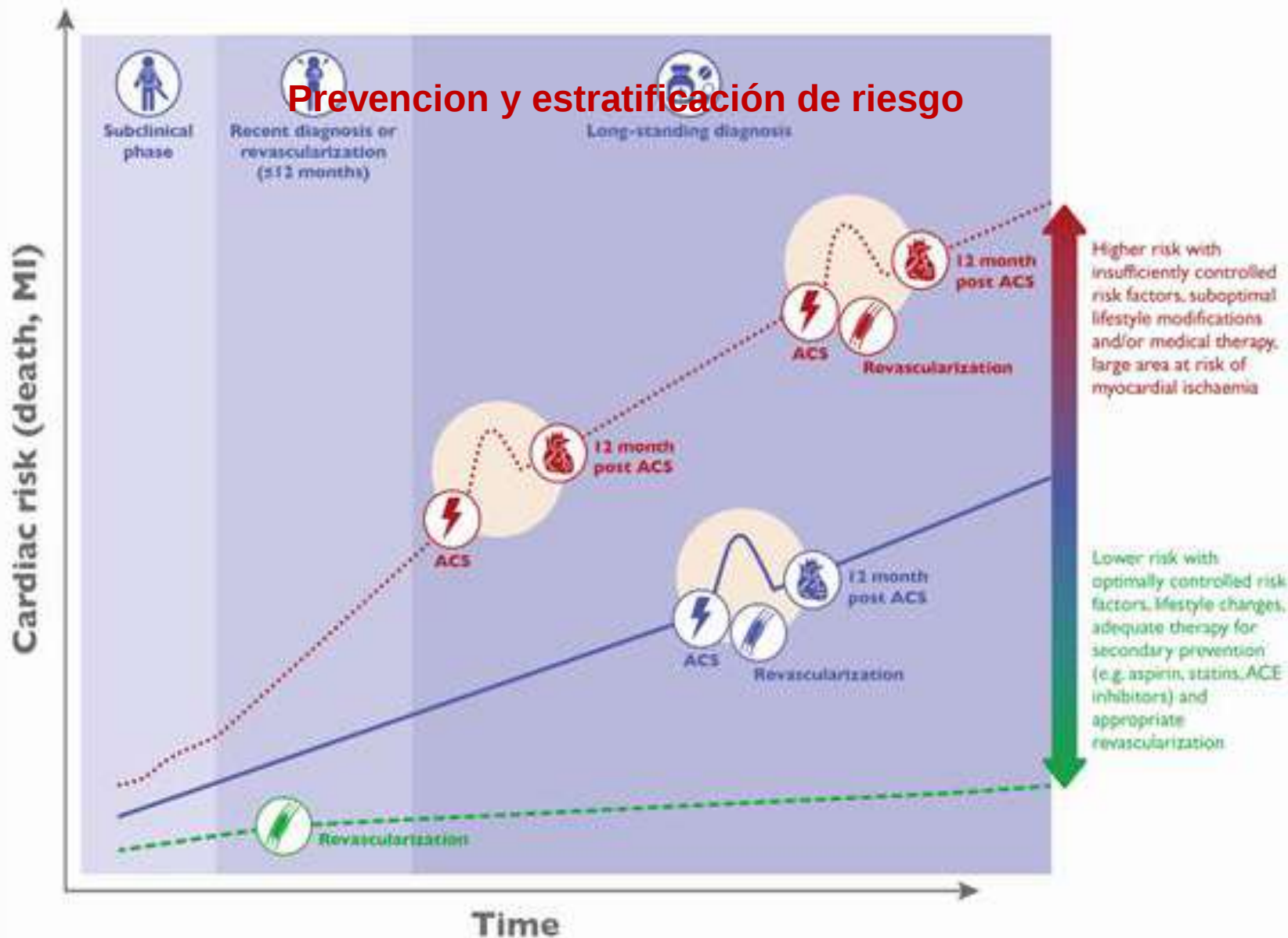
HbA1c <53 mmol/mol (<7%)^c

Prevention Based on Detection of Subclinical Atherosclerosis Should Result in Reduced Coronary Events



Natural history of chronic coronary syndromes

A dynamic process

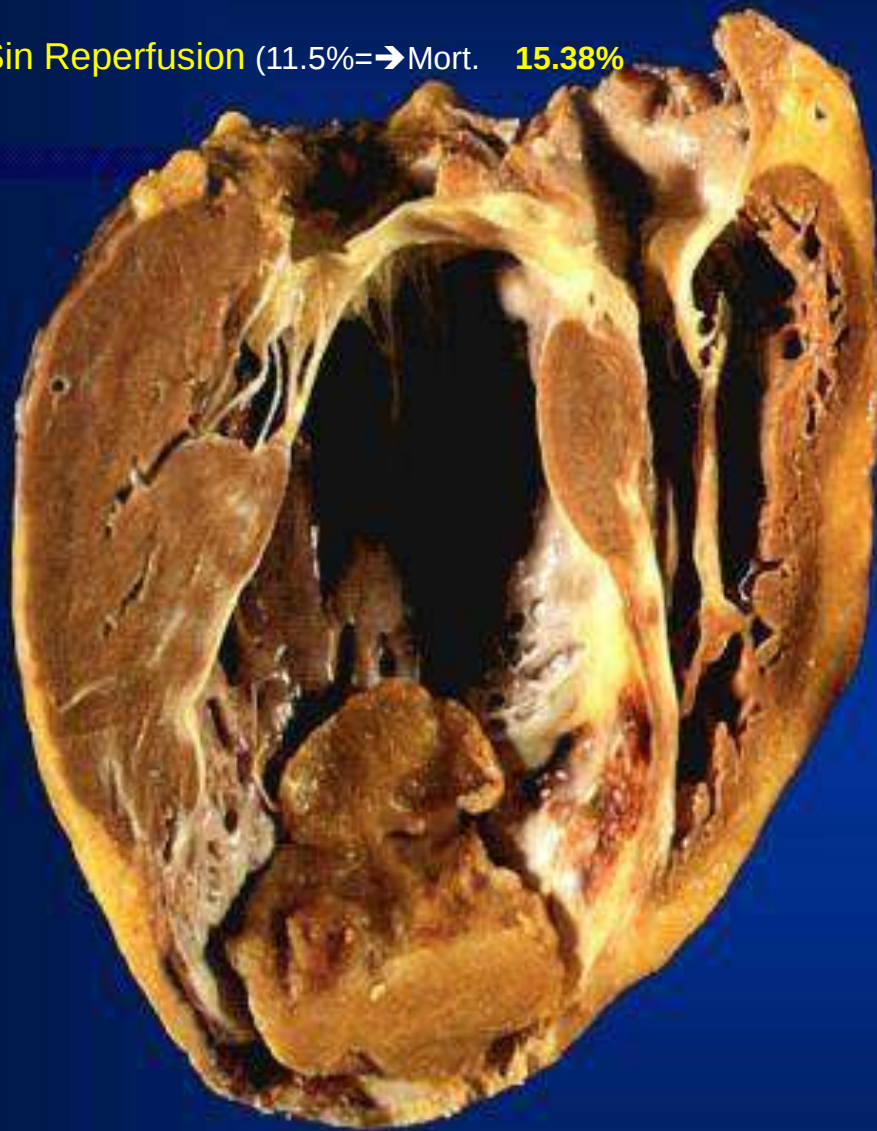


#Trombolíticos	165 min Isquemia → Mort	5.2%
(21%)		
#Farmaco Invasiva	191 min. Isquemia → Mort	4.9%
(79%)		
# ATC 1 ria	280 min. Isquemia → Mort.	7.8%
#Sin Reperfusion	(11.5% ⇒ Mort.	15.38%

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4.788 pac.Mort Hospital (8.7 %)

ARGEN IAM SAC



CONCLUSIONES

(SCACEST IAM)

OBJETIVOS

REPERFUSION PRECOZ

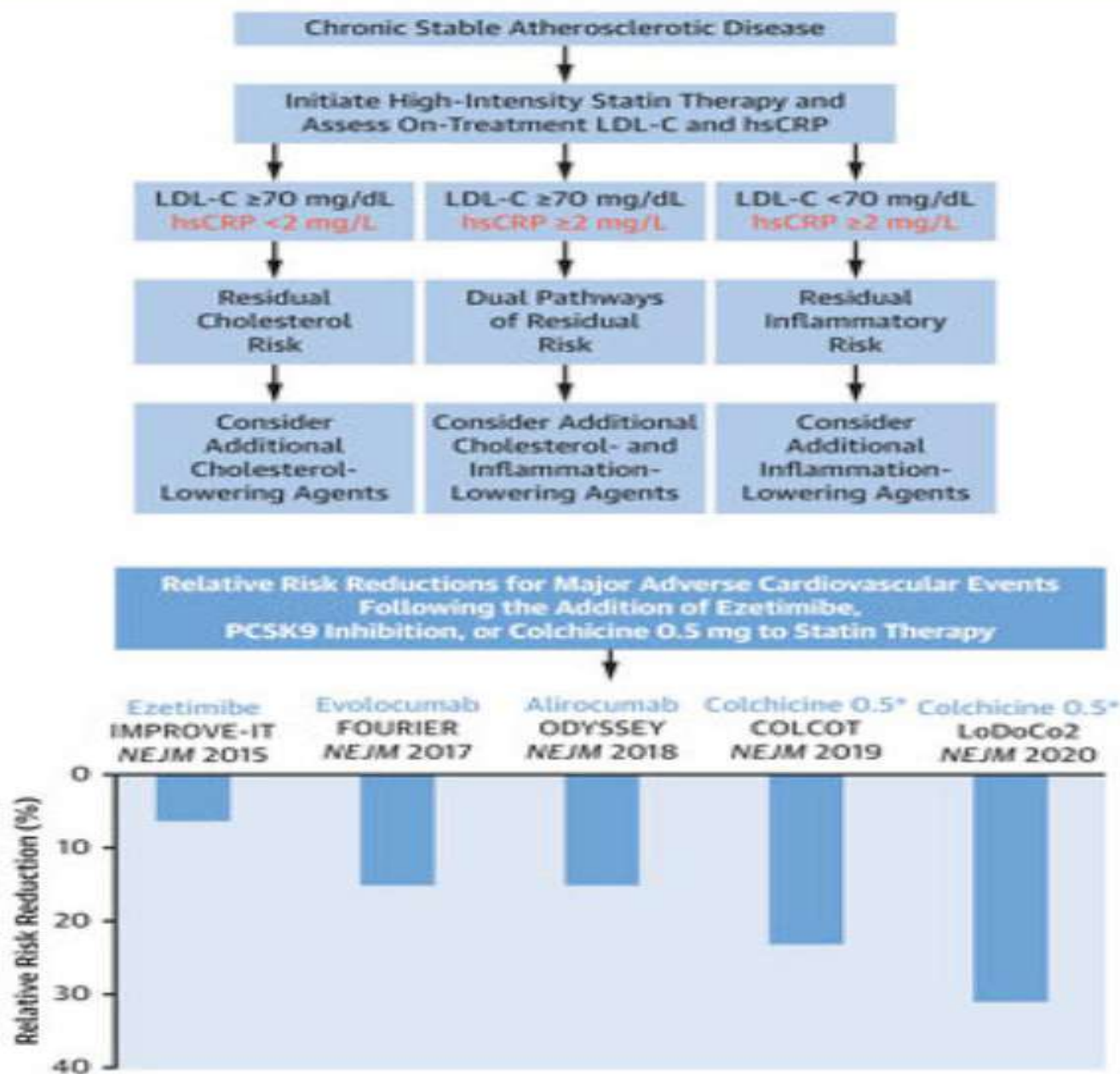
(Fibrinolíticos, **FARMACO INVASIVA** o ATC)

(REDUCCION DE MORBIMORTALIDAD)

PREVENCION SECUNDARIA =>MEJORA PRONOSTICO
(ATEROTROMBOSIS Y DISFUNCION VI)



CENTRAL ILLUSTRATION: Managing Residual Inflammatory Risk and Residual Cholesterol Risk in Stable Coronary Disease



WHY COLCHICINE?

Inflammation has been associated with increased cardiovascular event risk (CVE), regardless of LDL-C Level.

The CANTOS Trial evaluated the use of canakinumab (Interleukin-1b inhibitor) vs. placebo in 10,061 atherosclerosis patients with residual inflammatory risk (hsCRP >2 mg/L) despite statin therapy. CANTOS found a reduction in the composite endpoint of MI, stroke, or CV death. Limitations of canakinumab therapy include cost of agent, lack of mortality benefit, and increase in mortality due to infection seen in CANTOS trial.

Colchicine is a cheaper alternative to canakinumab. In patients with coronary artery disease, colchicine reduces inflammation and low-attenuation plaque volume.

DOSING AND FORMULATIONS

Dosing for Secondary Prevention: Colchicine 0.5 mg PO daily

Branded Formulation
Colchicine 0.5 mg tablet

AWP \$19.80/tablet

Generic Formulation
Colchicine 0.6 mg tablet

AWP \$5.76-8.20/tablet



20% increase in dose when using generic formulation vs. branded formulation

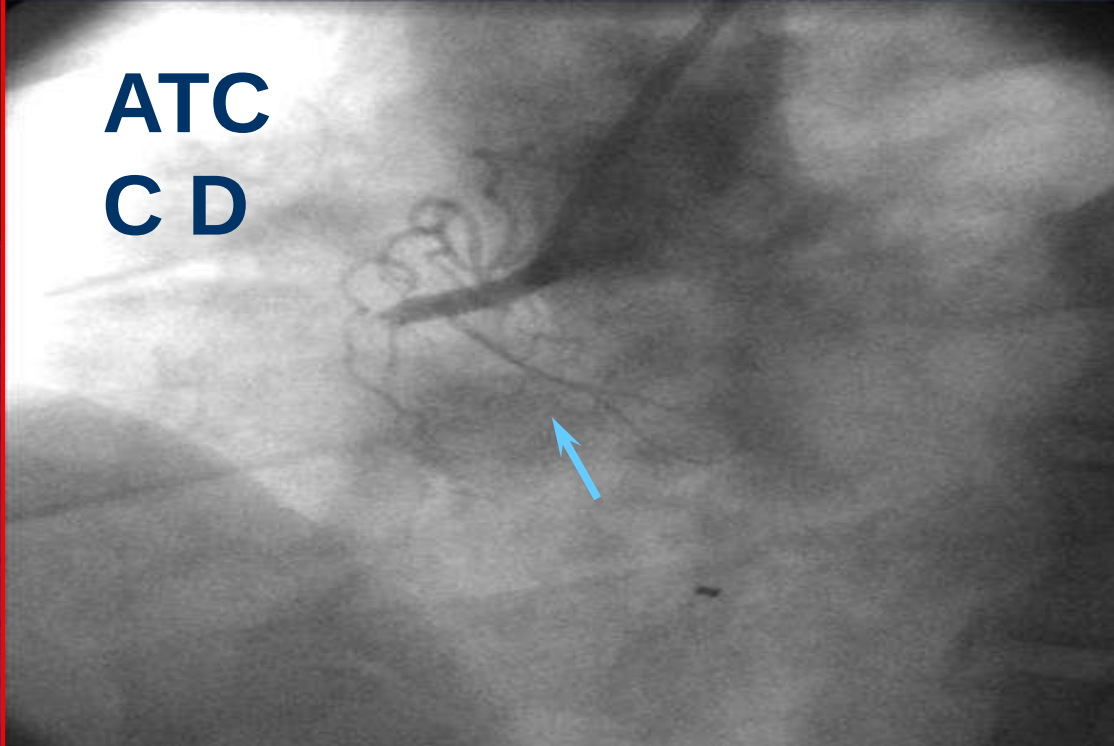
SUMMARY OF TRIALS

Trial	Population	Key Exclusion Criteria	Intervention	Primary Outcomes	Endpoints	
					Primary Efficacy	Safety
LoDoCo 2013	Clinically stable CAD for > 6 months	CABG < 10 years prior, PCI after CABG	Colchicine 0.5 mg daily (n=282) vs. placebo (n=250)	Composite of ACS, cardiac arrest, or ischemic stroke	5.3% vs. 16% p < 0.0001	
COLCOT 2019	Patients with MI within the last 30 days and completion of all intended coronary revascularization	CABG < 3 years prior, Severe HF, LVEF < 35%, Severe renal or hepatic disease	Colchicine 0.5 mg daily (n=2,366) vs. placebo (n=2,379)	CV death, MI, stroke, resuscitated cardiac arrest, or urgent hospitalization for unstable angina leading to revascularization	5.5% vs. 7.1% P = 0.02	All Cause Mortality 1.8% vs. 1.8% HR 0.98 [0.64–1.49]
LoDoCo2 2020	Clinically stable CAD for > 6 months	Severe heart failure, Moderate-to-severe renal impairment	Colchicine 0.5 mg daily (n=2,762) vs. placebo (n=2,760)	Composite of CV death, spontaneous MI, ischemic stroke, or ischemia-driven coronary revascularization	6.8% vs. 9.6% p < 0.001	Non-CV Mortality 1.9% vs. 1.3% HR 1.51 [0.99–2.31]
COPS 2020	Patients with acute coronary syndromes (ACS) during index hospitalization	CAD requiring CABG, Severe renal or hepatic insufficiency	Colchicine 0.5 mg BID x1 month then 0.5 mg daily (n=396) vs. placebo (n=399)	Composite of death, ACS, ischemia-driven urgent revascularization and non-cardioembolic ischemic stroke	6.1% vs. 9.5% P=0.10	GI symptoms

Recommendations for reperfusion therapy and timing of invasive strategy (1)

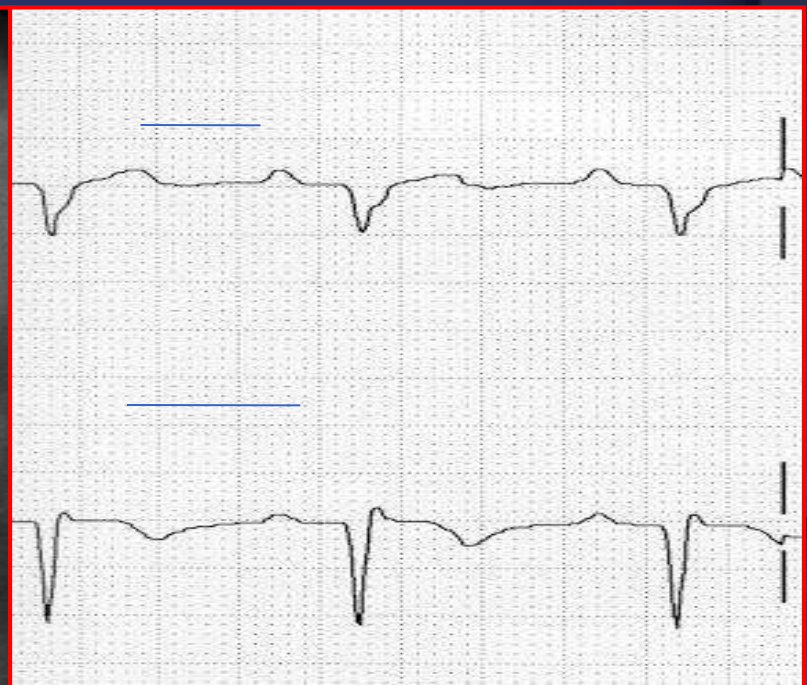
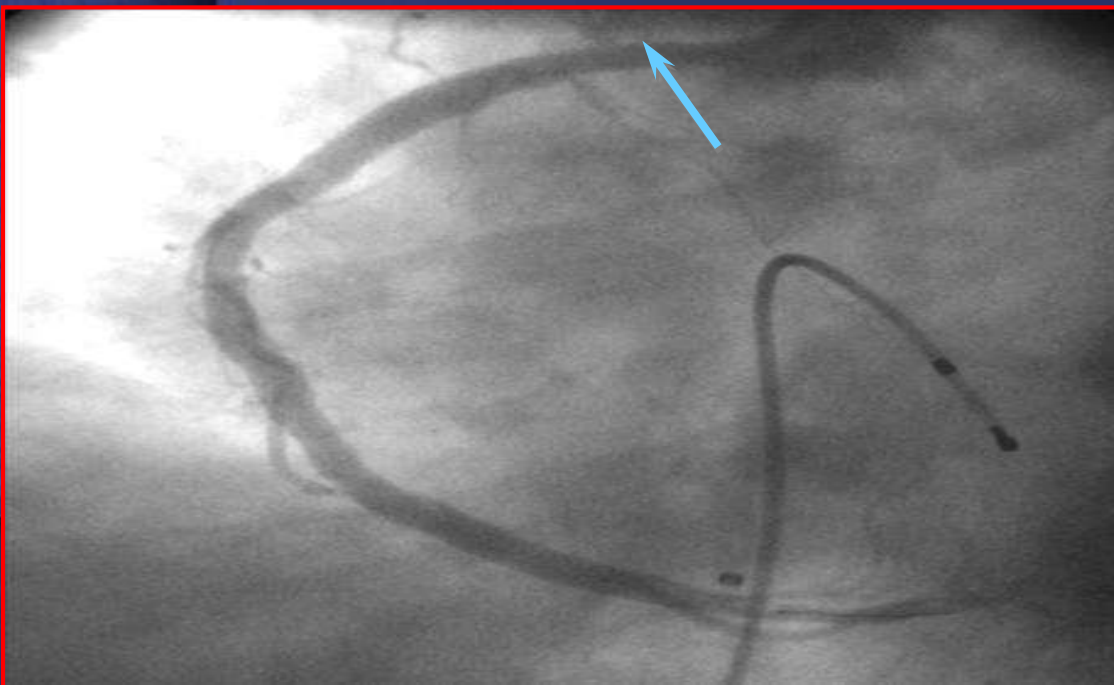
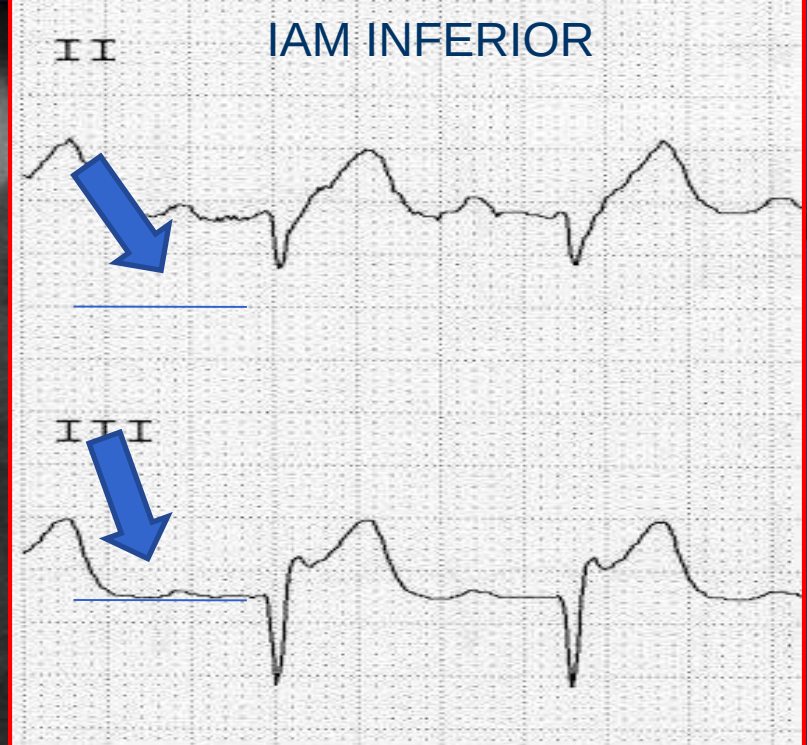
Recommendations	Class	Level
<i>Recommendations for reperfusion therapy for patients with STEMI</i>		
Reperfusion therapy is recommended in all patients with a working diagnosis of STEMI (persistent ST-segment elevation or equivalents) and symptoms of ischaemia of ≤ 12 h duration.	I	A
A PPCI strategy is recommended over fibrinolysis if the anticipated time from diagnosis to PCI is <120 min	I	A
If timely PPCI (<120m) cannot be performed in patients with a working diagnosis of STEMI, fibrinolytic therapy is recommended within 12 h of symptom onset in patients without contraindications.	I	A
Rescue PCI is recommended for failed fibrinolysis (i.e. ST-segment resolution $< 50\%$ within 60–90 min of fibrinolytic administration) or in the presence of haemodynamic or electrical instability, worsening ischaemia, or persistent chest pain.	I	A

ATC
C D

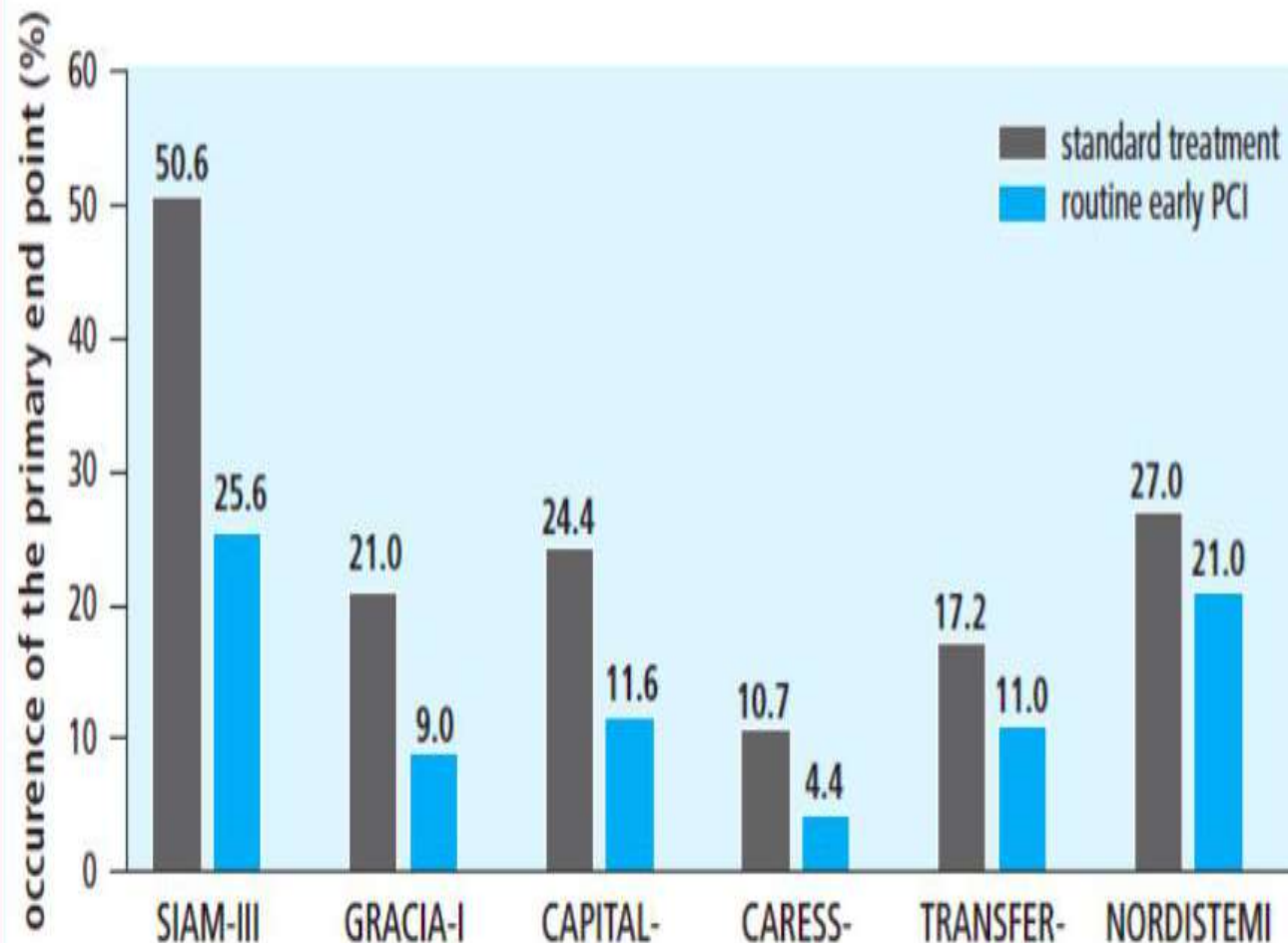


II

IAM INFERIOR



Fibrinolytic therapy (continued)



Class	Level
I	A
I	A
I	A
I	A

**From 3-
24 h
to
2-24 h**

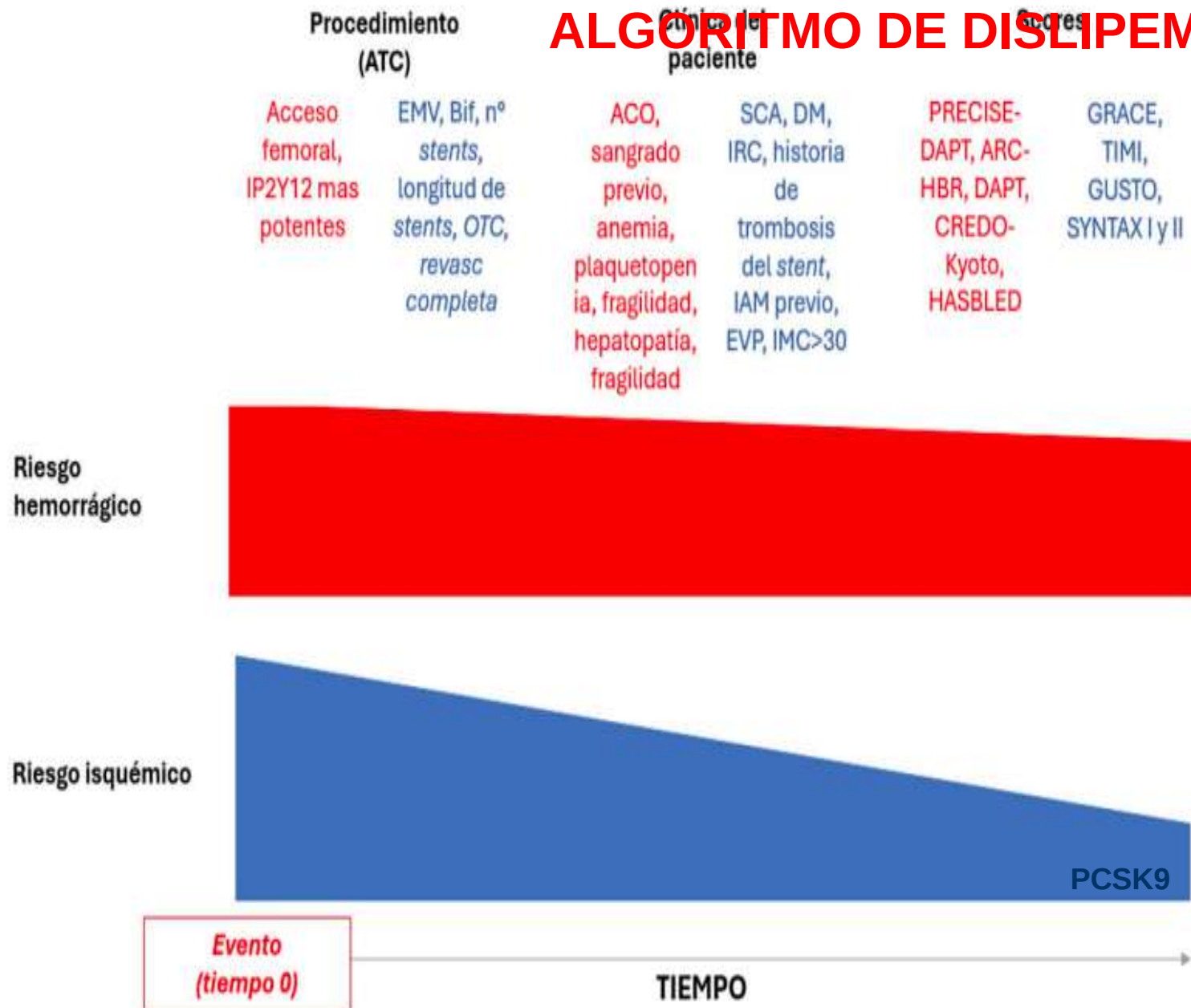
Metaanálisis de Revascularización Completa

Además, en comparación con la revascularización completa por etapas, la revascularización completa en un solo ajuste redujo lo siguiente:

- Mortalidad cardiovascular/IM: OR 0,70, IC del 95 % 0,55-0,91
- Mortalidad por todas las causas/IM: OR 0,67, IC del 95 % 0,52-0,85
- IM solo: OR 0,53, IC del 95% 0,36-0,77
- MACE: OR 0,67, IC del 95 % 0,50-0,91

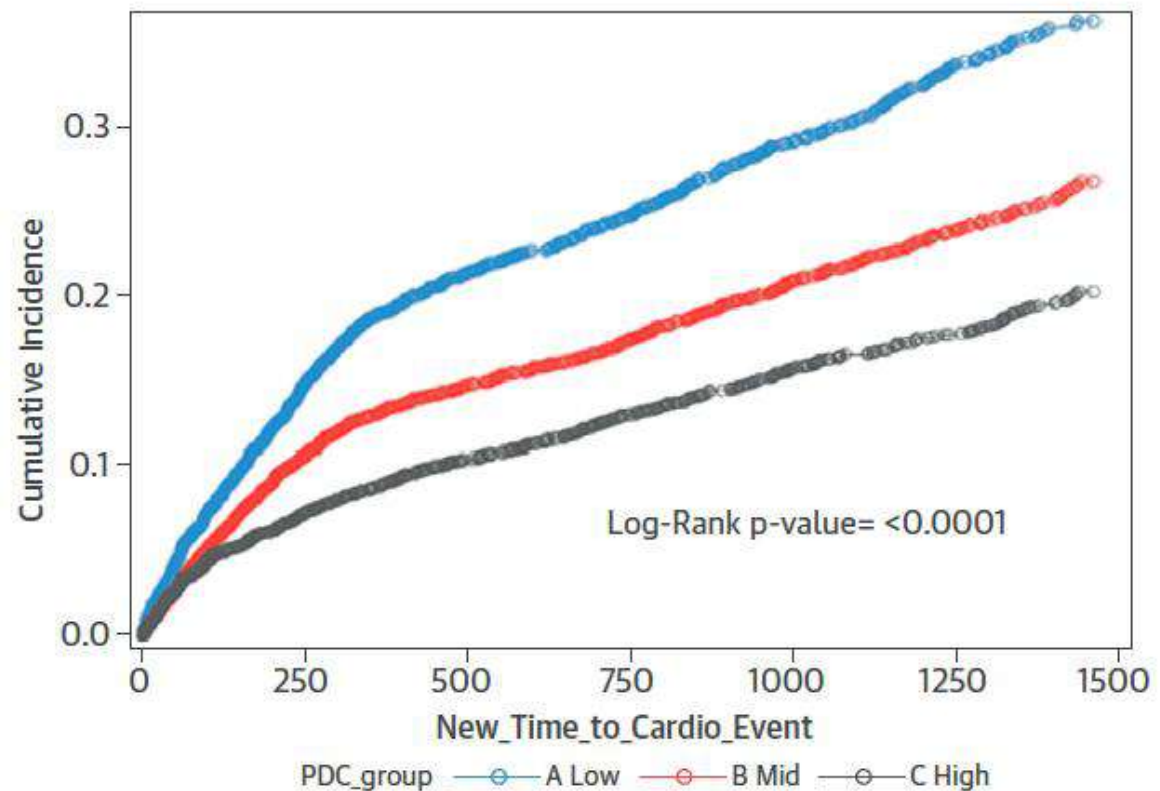
El Dr. Sripal Bangalore, MHA, de la Facultad de Medicina Grossman de la Universidad de Nueva York en la ciudad de Nueva York, y sus colegas descubrieron que la revascularización completa en un solo entorno era la mejor opción para todos los resultados, seguida de la revascularización completa en etapas y, en tercer lugar, la revascularización de la arteria culpable. Su informe se publicó en *Circulation: Cardiovascular Interventions*.

ALGORITMO DE DISLIPEMIA



Beneficio de la adherencia a largo plazo

	No. of Studies	No. of Participants	No. of Deaths	Proportion (95% CI)
Adherence to statins	11	291,864	29,605	0.55 (0.46, 0.67)
Adherence to antihypertensive agents				
Adherence to aspirin				
Adherence to any CVD medication				



Chronic coronary syndromes in specific circumstances

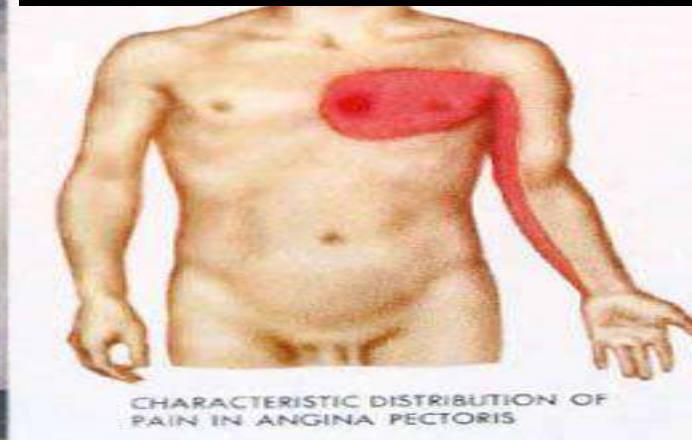
Diabetes mellitus

Recommendations	Class	Level
Risk factor (BP, LDL-C, and HbA1c) control to targets is recommended in patients with CAD and diabetes mellitus.	I	A
In asymptomatic patients with diabetes mellitus, a periodic resting ECG is recommended for cardiovascular detection of conduction abnormalities, AF, and silent MI.	I	C
ACE inhibitor treatment is recommended in CCS patients with diabetes for event prevention.	I	B
The sodium-glucose co-transporter 2 inhibitors empagliflozin, canagliflozin, or dapagliflozin are recommended in patients with diabetes and CVD.	I	A
A glucagon-like peptide-1 receptor agonist (liraglutide or semaglutide) is recommended in patients with diabetes and CVD.	I	A
In asymptomatic adults (age >40 years) with diabetes, functional imaging or coronary CTA may be considered for advanced cardiovascular risk assessment.	IIb	B



Occlusive thrombosis	Non-occl. thrombosis
CK- MB or Troponin ↑	Troponin elevated or not

Courtesy Dr E. Falk



SCA y MULTIPLES VASOS

Patient with ACS undergoing PCI of IRA with an angiographically significant stenosis in ≥ 1 non-IRA

Cardiogenic shock

Immediate PCI of IRA only
(Class I)

Staged complete
revascularization
(Class III)

STEMI

Complete revascularization,
either during the index
procedure or within
45 days^a
(Class I)

NSTE-ACS

Complete revascularization^b
(Class IIa)

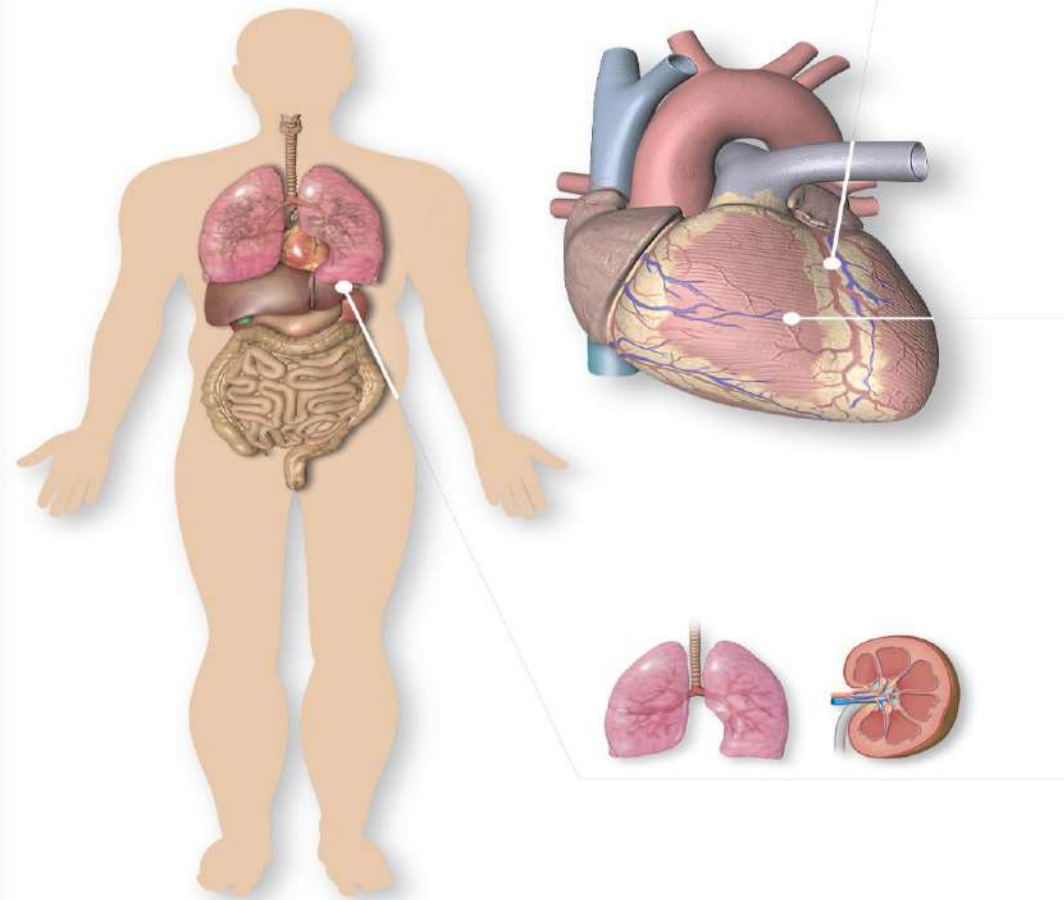
Functional invasive
evaluation of the non-IRA
during the index procedure
(Class IIb)

IAM RESUMEN DATOS DE ARGENTINA SAC ARGEN IAM ST (2015-2024)

4.788 pac.Mort Hospital 8.7 %

#Tromboliticos	(8.5%)	165 min Isquemia	➔ Mort	5.2%
#Farmaco Invasiva	(2.98%)	191 min. Isquemia	➔ Mort	4.9%
# ATC 1 ria	(88.5%)	280 min. Isquemia	➔ Mort.	7.8%
#Sin Reperfusion	(11.5%)		=➔ Mort.	15.38%

CAUSAS DE IAM SIN OBSTRUCCION CORONARIA



Coronary causes

- Coronary embolism
- Coronary microvascular dysfunction
- Coronary spasm
- Coronary thrombosis
- Myocardial bridging
- Plaque rupture/erosion
- Spontaneous coronary artery dissection

Non-coronary, cardiac causes

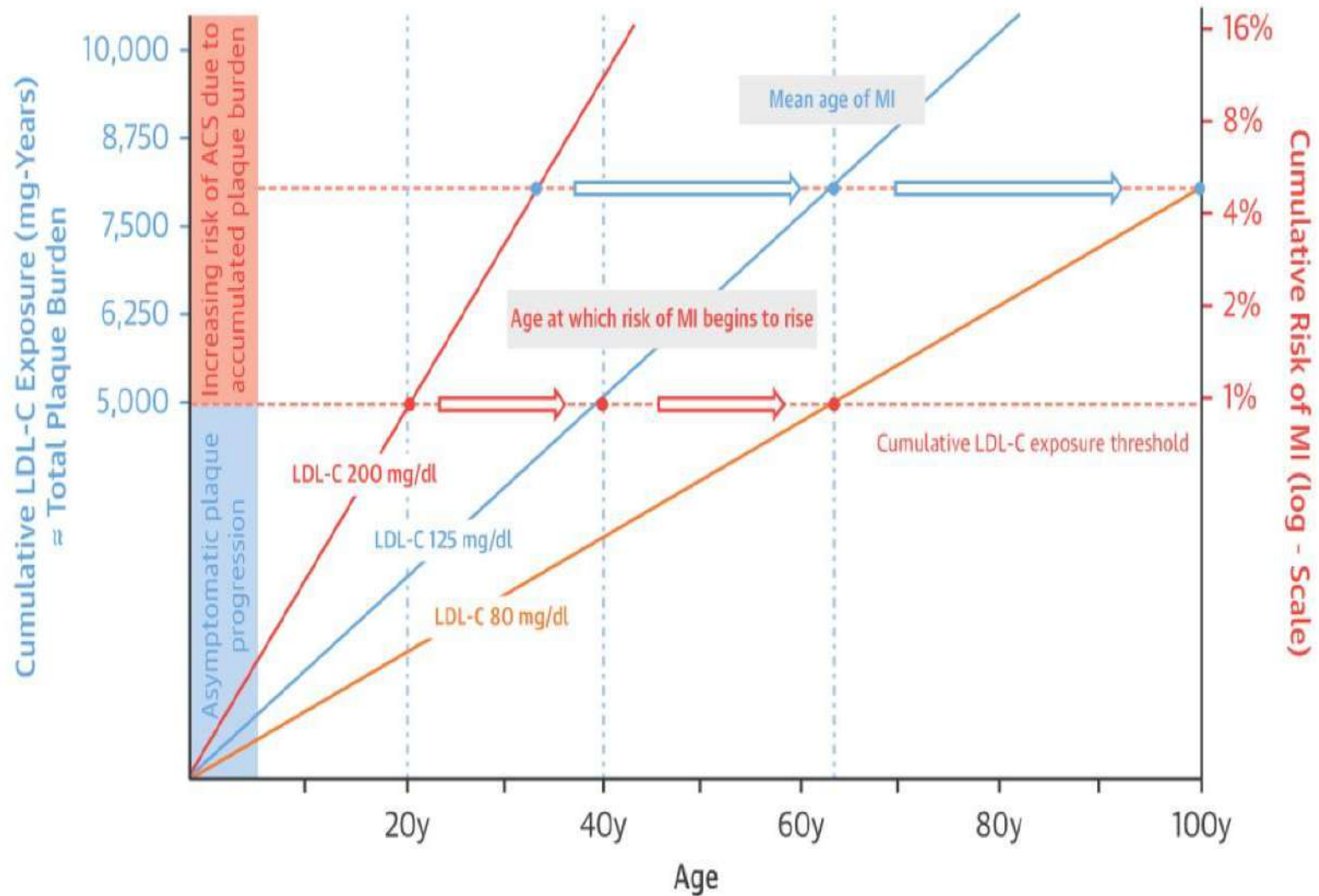
- Cardiac trauma
- Cardiomyopathy
- Cardiotoxins
- Myocarditis
- Strenuous exercise
- Takotsubo cardiomyopathy
- Transplant rejection

Non-cardiac causes

- Acute respiratory distress syndrome
- Allergic/hypersensitivity reactions
- End-stage renal failure
- Inflammation
- Pulmonary embolism
- Sepsis
- Stroke

Recomendación MINOCA SAC 2025	Clase	Nivel de evidencia
Sospecha o evidencia de accidentes de placa o erosión: comenzar con antiagregantes de acuerdo con las guías nacionales de síndromes coronarios agudos. (76,345)	I	C
Estatinas a dosis intensiva en todos los pacientes con MINOCA. (346,347)	I	B
En los casos de evidencia o alta sospecha de vasoespasmo de arterias coronarias <u>epicárdicas</u> o espasmo microvascular, se recomienda el uso de bloqueantes cálcicos (<u>diltiazem</u> , verapamilo) y nitratos (endovenosos y orales). (348-350)	I	B
En los casos de evidencia o alta sospecha de disfunción microvascular, se recomienda el uso de betabloqueantes (<u>nebivolol</u>), bloqueantes cálcicos, estatinas y IECA y ARA II, salvo contraindicaciones o intolerancia.	<u>Ila</u>	C

Modifying Disease Course by Slowing Atherosclerosis Progression



ACS encompasses a spectrum

Unstable angina

NSTEMI

STEMI

1 Think 'A.C.S.' at initial assessment



2 Think invasive management

STEMI

Very high-risk NSTEMI-ACS

High-risk NSTEMI-ACS



3 Think antithrombotic therapy

Antiplatelet therapy

AND

Anticoagulant therapy



4 Think revascularization

Based on clinical status, co-morbidities, and disease complexity

Aim for complete revascularization

Consider adjunctive tests to guide revascularization



5 Think secondary prevention

