

## Criteria for Acute Myocardial Infarction

- **Detection of a rise and/or fall of cardiac biomarker values (preferably cardiac troponin) with at least one value above the 99<sup>th</sup> percentile upper reference limit (URL) and with at least one of the following:**
  - Ischaemic symptoms;
  - ECG changes of new ischaemia (new ST-T changes or new LBBB);
  - Development of pathologic Q waves in the ECG;
  - Imaging evidence of new loss of viable myocardium or new regional wall motion abnormality;
  - Identification of an intracoronary thrombus by angiography or autopsy.

## Elevations of Cardiac Troponin Values because of Myocardial Injury

### Injury related to primary myocardial ischaemia

- Plaque rupture.
- Intraluminal coronary artery thrombus formation.

### Injury related to supply/demand imbalance of myocardial ischaemia

- Tachy-/brady-arrhythmias.
- Aortic dissection or severe aortic valve disease.
- Hypertrophic cardiomyopathy
- Cardiogenic, hypovolaemic, or septic shock.
- Severe respiratory failure.
- Severe anaemia.
- Hypertension with or without LVH.
- Coronary spasm.
- Coronary embolism or vasculitis.
- Coronary endothelial dysfunction without significant CAD.

### Injury not related to myocardial ischaemia

- Cardiac contusion, surgery, ablation, pacing, or defibrillator shocks.
- Rhabdomyolysis with cardiac involvement.
- Myocarditis.
- Cardiotoxic agents, e.g. anthracyclines, herceptin.

### Multifactorial or indeterminate myocardial injury

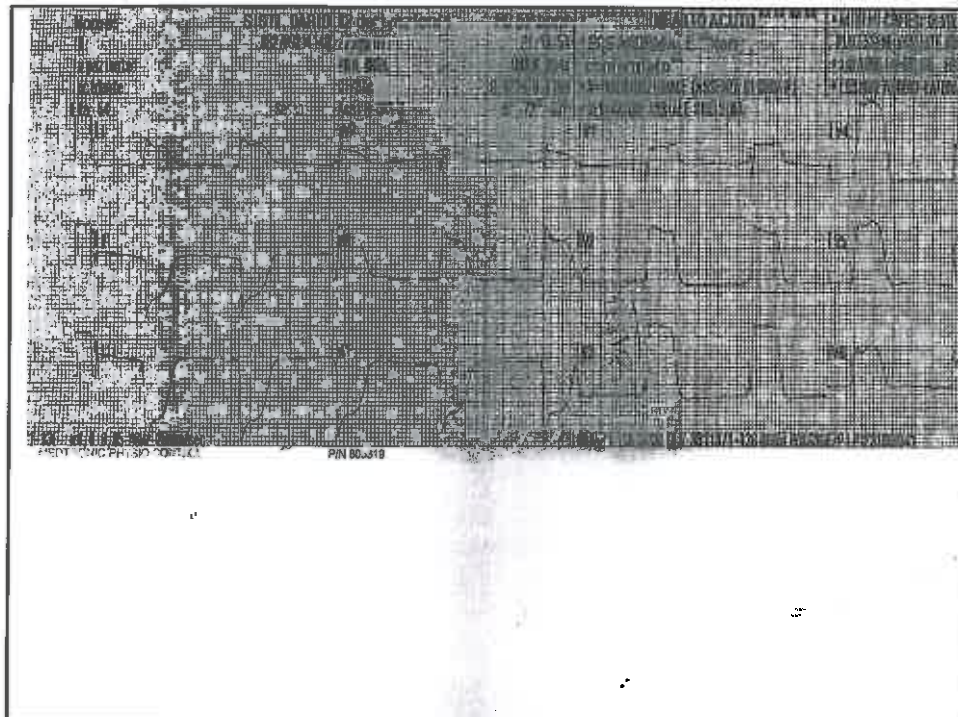
- Heart failure.
- Stress (Takotsubo) cardiomyopathy.
- Severe pulmonary embolism or pulmonary hypertension.
- Sepsis and critically ill patients.
- Renal failure.
- Severe acute neurological diseases, e.g. stroke, subarachnoid haemorrhage.
- Infiltrative diseases, e.g. amyloidosis, sarcoidosis.
- Strenuous exercise.

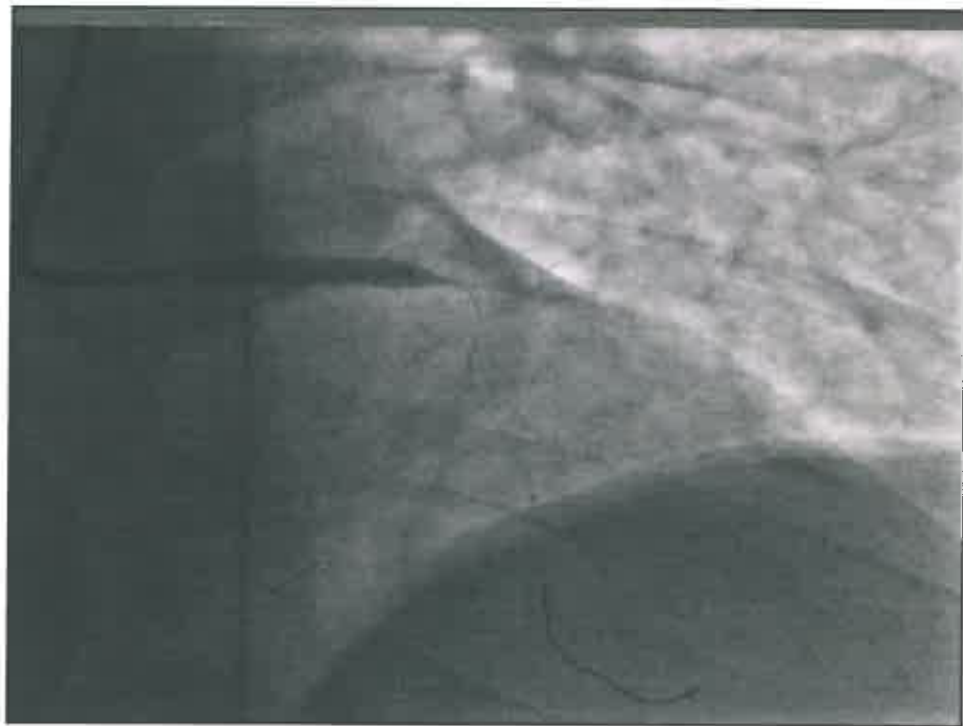
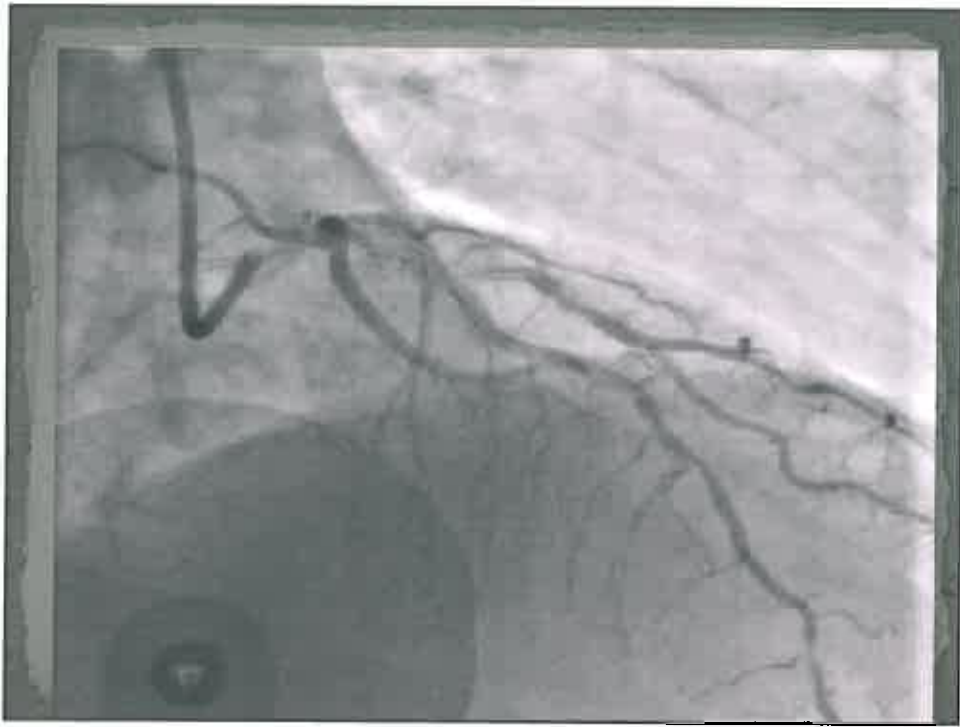
## STEMI

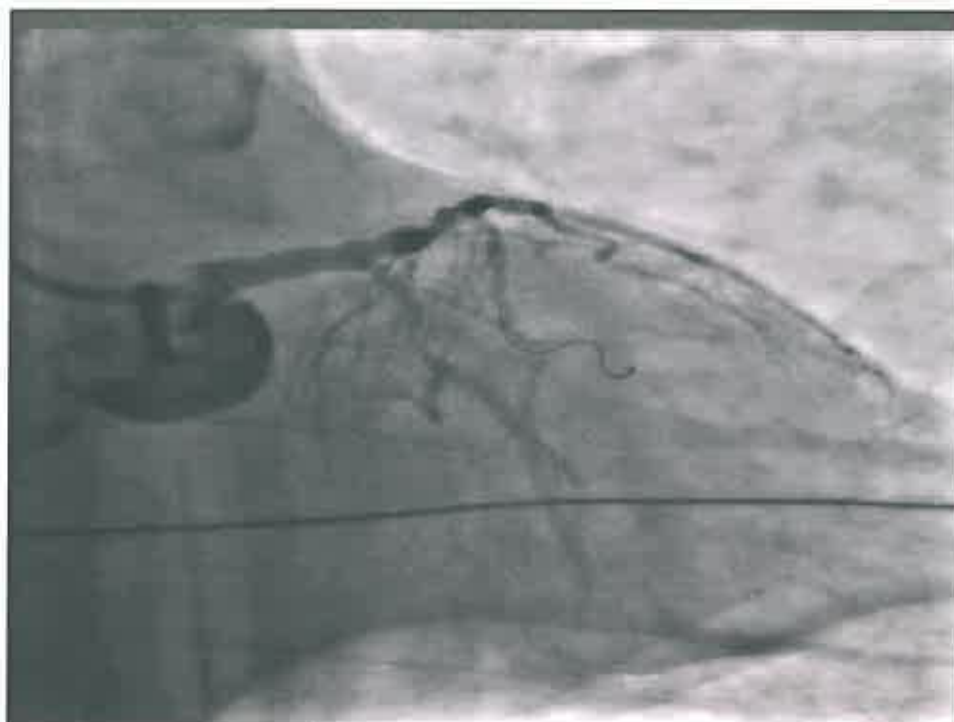
- **occlusione improvvisa** (trombotica, spastica o combinata) di una coronaria
- **circolo non condizionato**
- **soggetto giovane** o al **1° episodio infartuale**, senza circolazione collaterale, o nel **reinarto eterosede**
- **malattia monovasale**
- **cardiopatìa meno avanzata** rispetto alle NSTEMACS

## NSTEMACS

- **stenosi-severe non occlusive**
- **soggetti più anziani** con più **FdR coronarico**
- **storia più lunga di malattia coronarica**, con una > prevalenza di progressi IMA, CABG ed episodi di SC
- **circolazione condizionata** da ripetuti eventi ischemici
- **circoli collaterali**

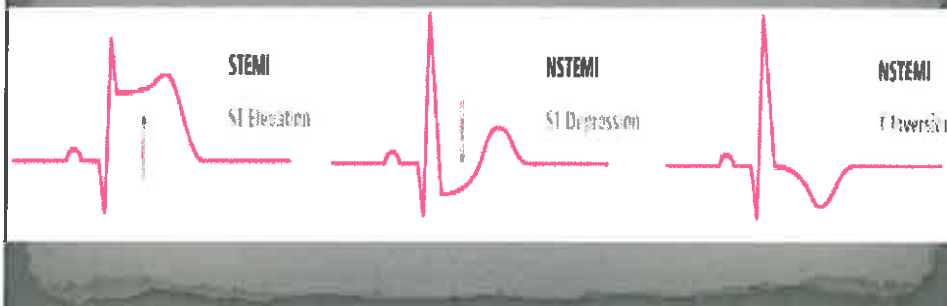




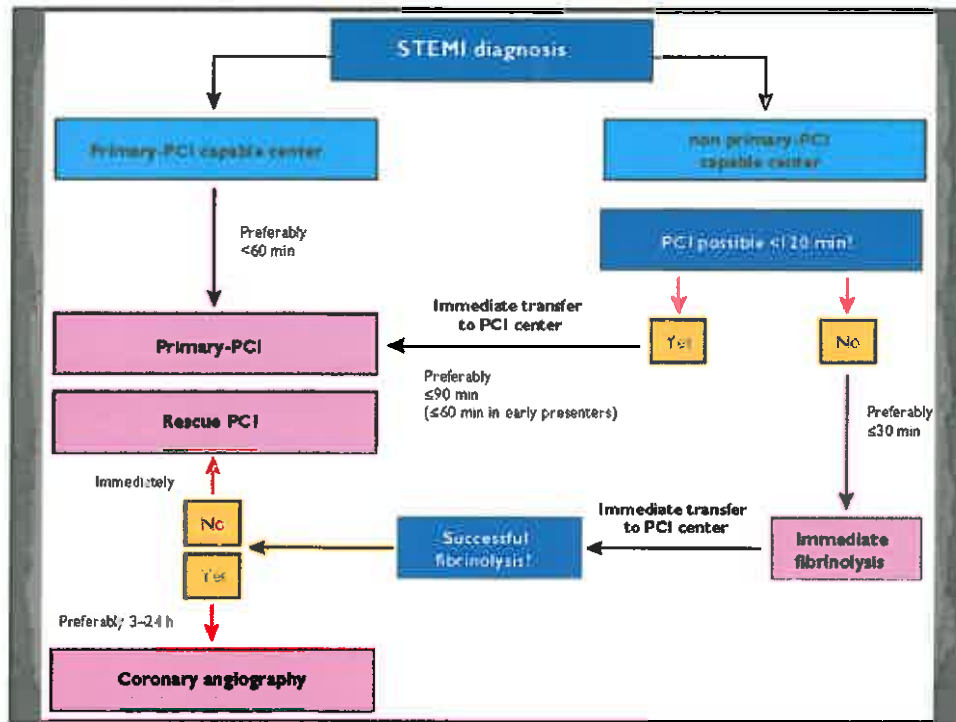


## NSTEMI (IMA NON Q) = INFARTO SUBENDOCARDICO

- ST **esteso**, anche se talvolta è possibile che ci sia solo **negatività** della **onda T**
- manca **comparsa** di **onde Q** di **necrosi**, per cui l'NSTEMI è spesso denominato **IMA non Q**

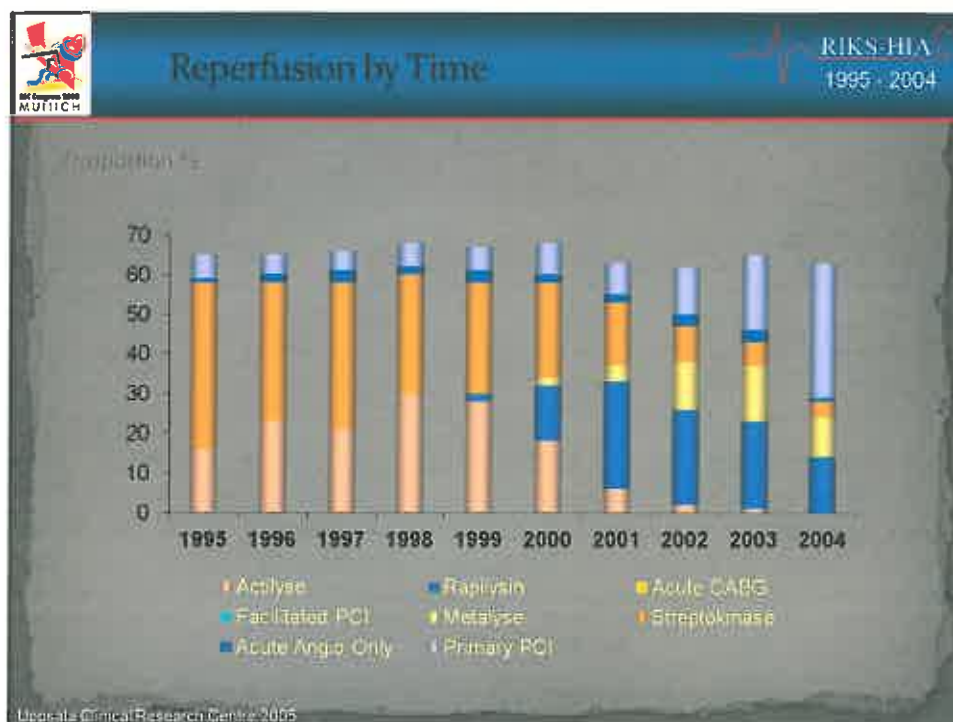
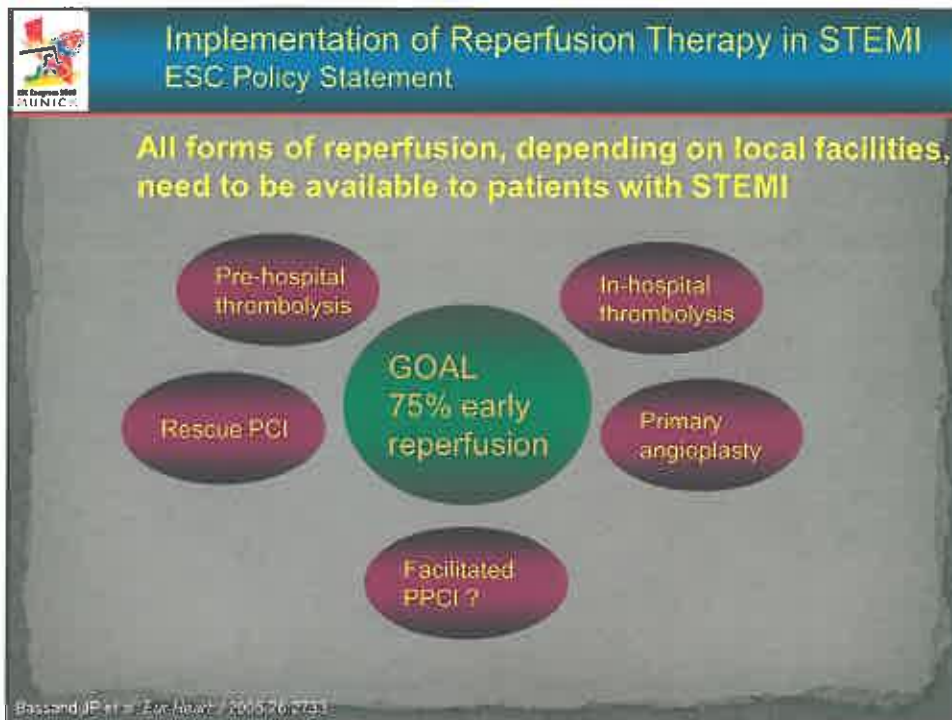




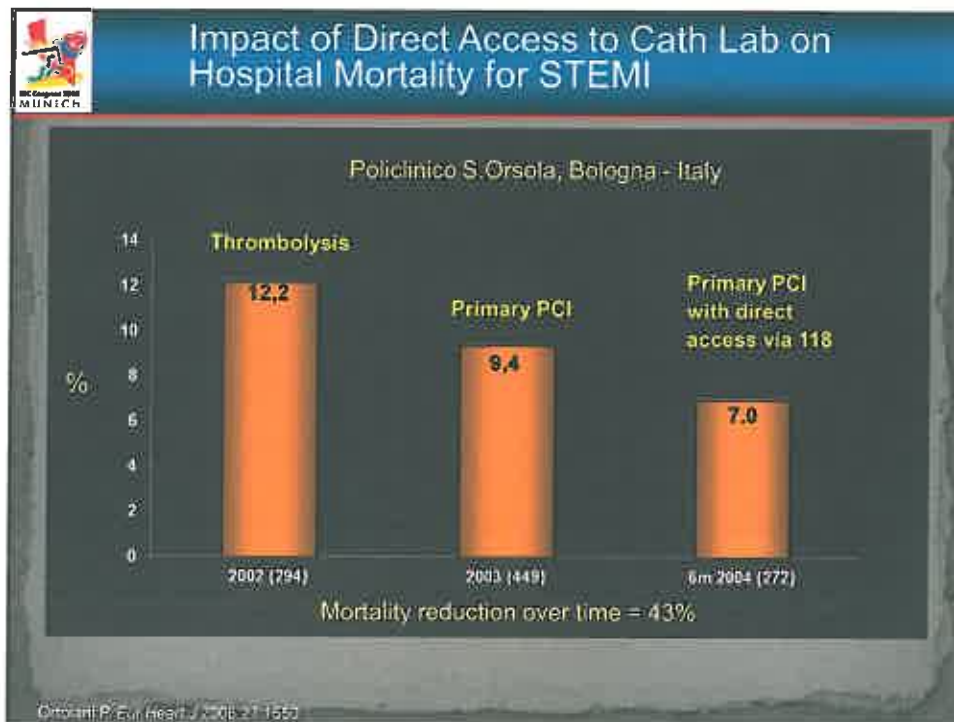
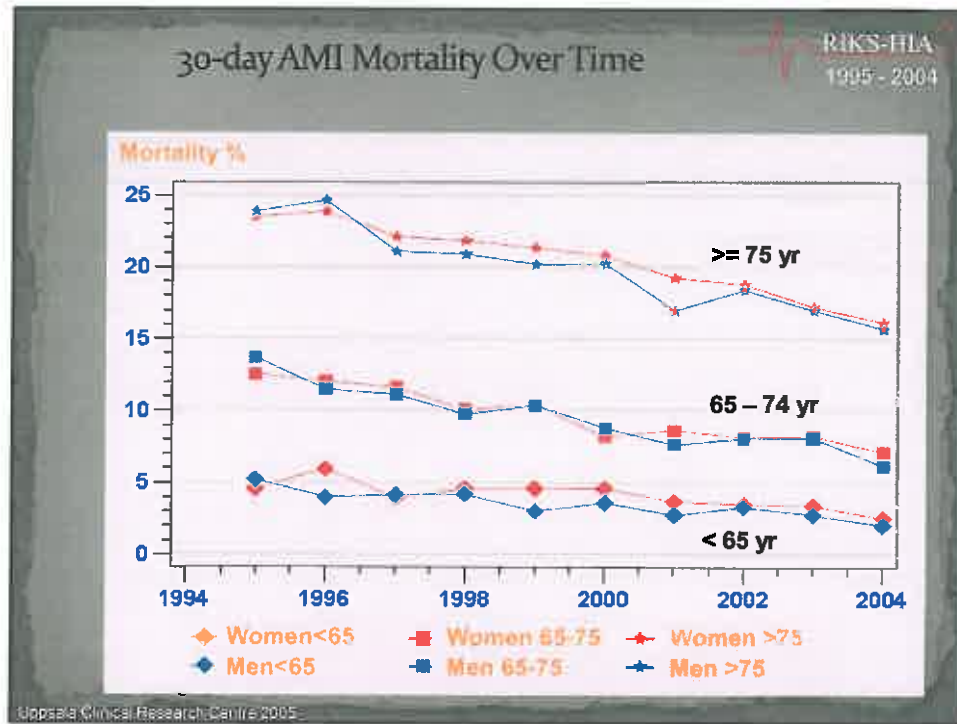


## Reperfusion therapy

Recommendations	Class	Level
Reperfusion therapy is indicated in all patients with symptoms of <12 h duration and persistent ST-segment elevation or (presumed) new LBBB.	I	A
Reperfusion therapy (preferably primary PCI) is indicated if there is evidence of ongoing ischaemia, even if symptoms may have started > 12 h beforehand or if pain and ECG changes have been stuttering.	I	C
Reperfusion therapy with primary PCI may be considered in stable patients presenting 12-24 h after symptom onset.	IIb	B
Routine PCI of a totally occluded artery > 24 h after symptom onset in stable patients without signs of ischaemia (regardless of whether fibrinolysis was given or not) is not recommended.	III	A

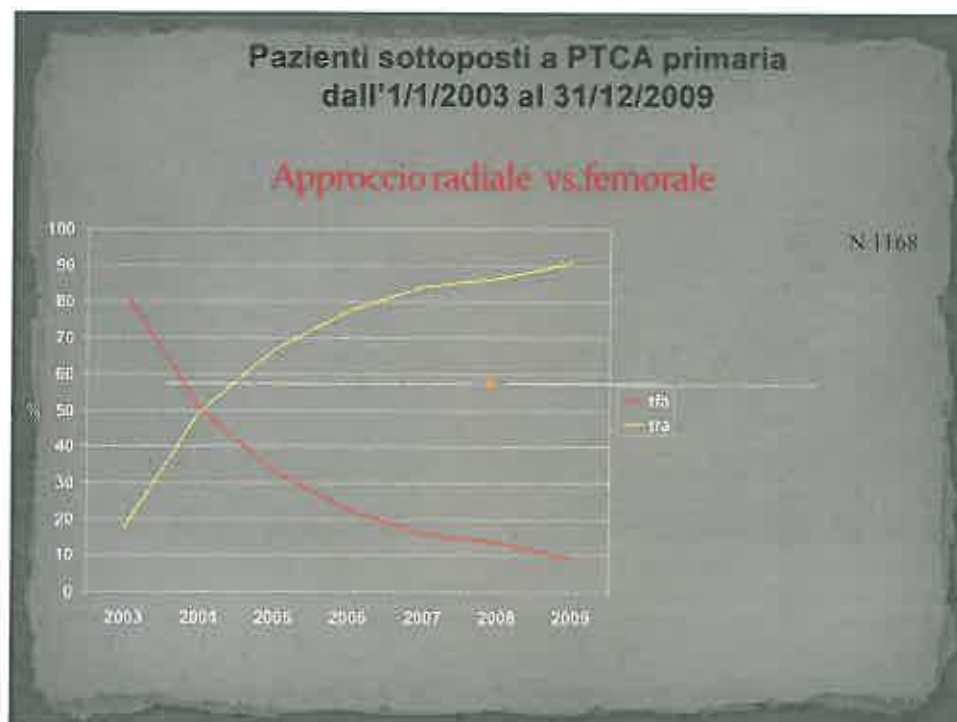


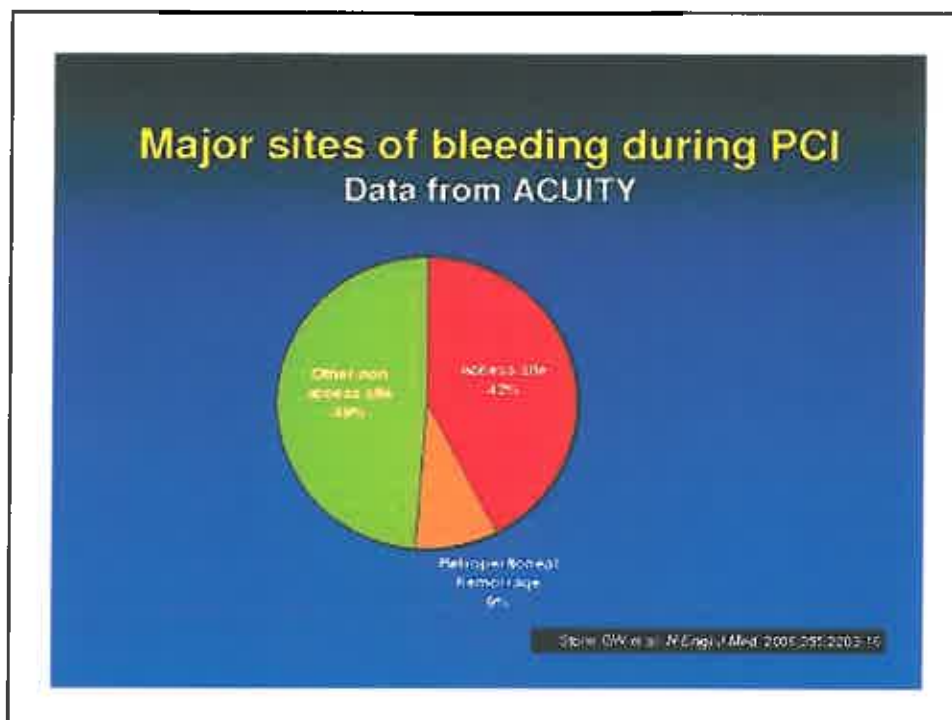
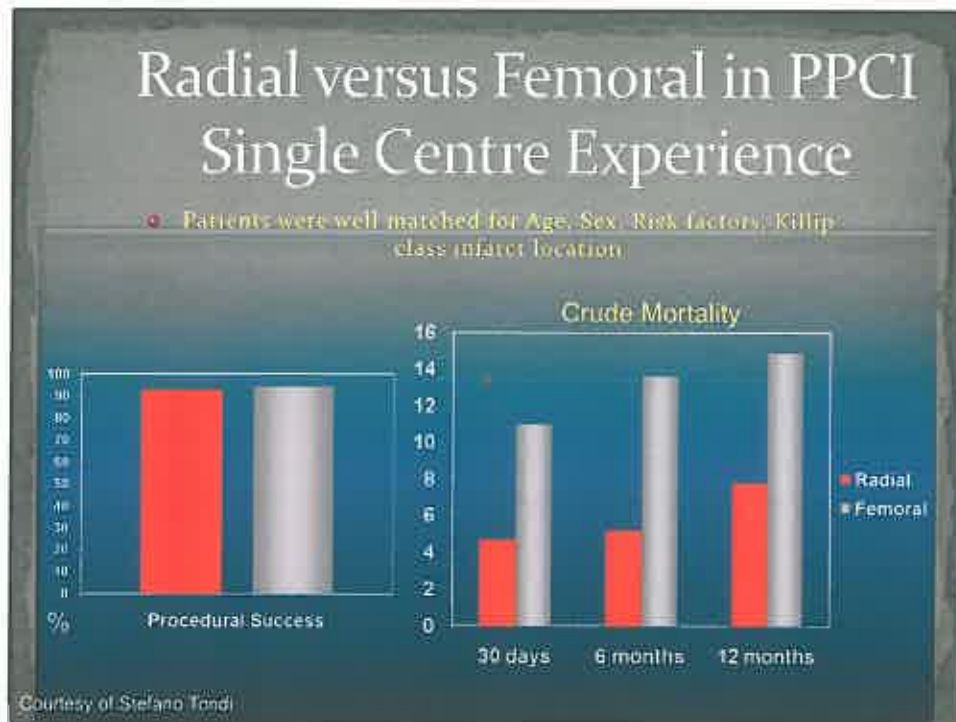


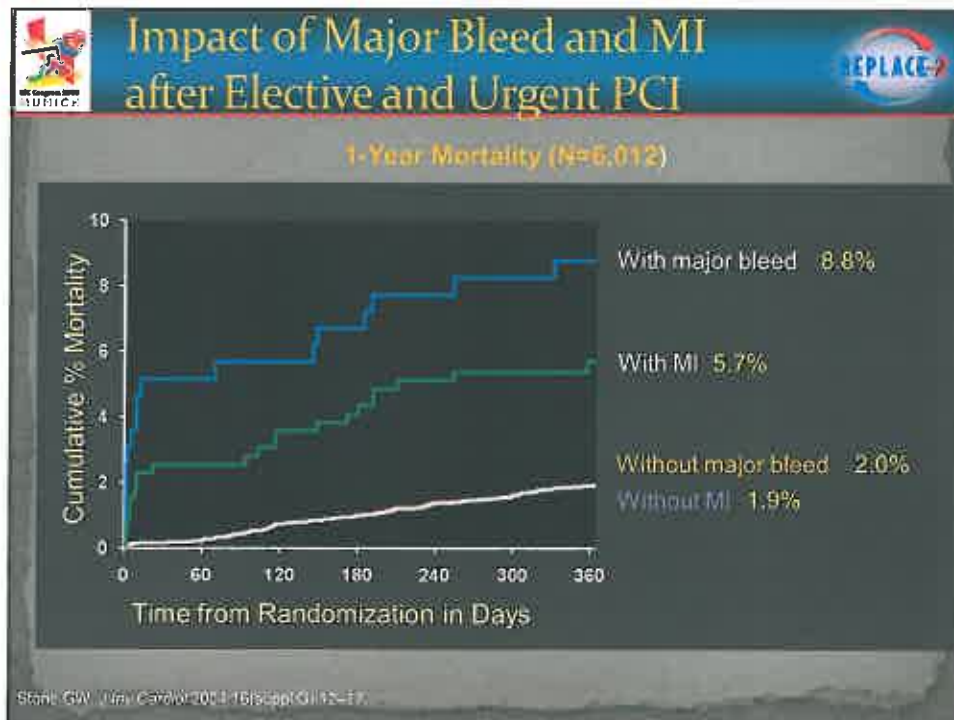


## Procedural aspects of primary PCI

Recommendations	Class	Level
<b>Procedural aspects of primary PCI</b>		
Primary PCI should be limited to the culprit vessel with the exception of cardiogenic shock and persistent ischaemia after FCI of the supposed culprit lesion.	IIa	B
If performed by an experienced radial operator, radial access should be preferred over femoral access.	IIa	B
If the patient has no contraindications to prolonged DAPT (indication for oral anticoagulation, or estimated high long-term bleeding risk) and is likely to be compliant, DES should be preferred over BMS.	IIa	A
Routine thrombus aspiration should be considered.	IIa	B







## Rete modenese per il trattamento dello STEMI

### Modello Hub and Spoke

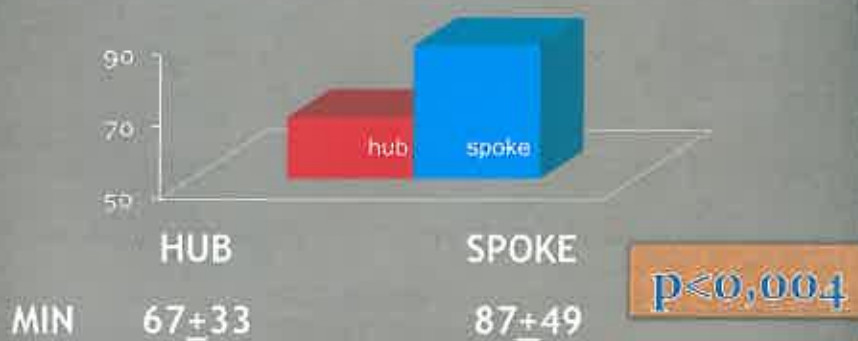
2 ( 1) Hub : Baggiovara ( Policlinico)

6 Spoke : Mirandola, Carpi, Sassuolo, Vignola, Castelfranco, Pavullo + area metropolitana della città di Modena

I pazienti che provengono dai centri periferici e quelli che giungono direttamente al NOCSAE sono risultati comparabili per età, sesso, principali fattori di rischio ecc.

	GROUP A: HUB	GROUP B: SPOKE	P
Age (aa)	66,5	66,5	n.s.
sex (male %)	77,0	75,7	n.s.
diabetes (%)	13,1	14,7	n.s.
active smoker (%)	21,5	20,9	n.s.
hypertension (%)	28,5	25,1	n.s.
shock (%)	5,1	5,9	n.s.
Killip 1-2 (%)	96,3	95,8	n.s.

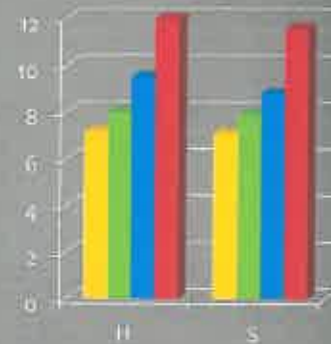
Il tempo intercorso fra la diagnosi ECG di STEMI e l'arrivo nel CathLab era **significativamente maggiore** nel gruppo di pazienti giunti dalla periferia (tempo di trasporto)





## Follow up

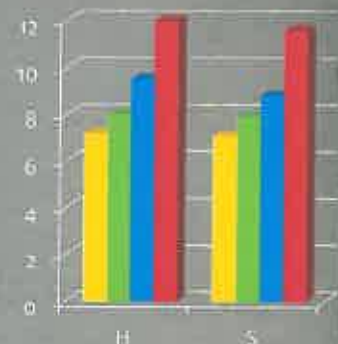
MORTALITA'	HUB	SPOKE
1 mesi	7,2%	7,1%
3 mesi	8,3%	7,8%
6 mesi	9,5%	8,8%
12 mesi	12,0%	11,6%



Mortality rates at 1,3,6,12 month was similar

## Follow up 2

mace	HUB	SPOKE
1 mese	5,2%	5,1%
3 mesi	8,3%	8,2%
6 mesi	11,5%	10,8%
12 mesi	13,0%	12,6%




Mace (reinfarction, angina, TLR) rates at 1,3,6,12 month was similar



### Generation of the Hypothesis ... "Time make the difference"

60 min



6 Hours

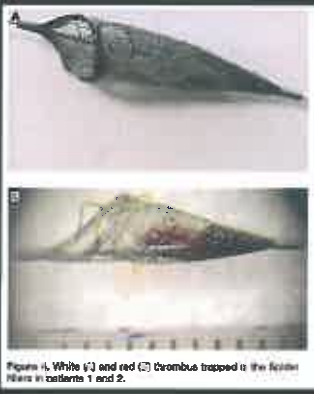
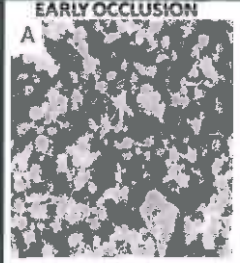
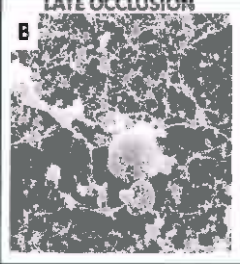


Figure 4. White (\*) and red (□) thrombus trapped in the feeder filars in collaterals 1 and 2.

EARLY OCCLUSION



LATE OCCLUSION




*Bevilacqua L, Collet JP, Nagaswami C, Weisel JW, Mantalescot G, Bevilacqua BJ. Circulation 2006; 113:e21-27*

## Interpretation of previous clinical trials

Symptoms Onset to First Medical Contact

**EARLY <3H**

Platelets ++ Fibrin + Lytic ++




Aspirin	OK
Anti-Thrombin	OK
P2Y12 Inhibitors	OK*

\* Especially fast-acting agent

Fibrinolysis	OK
PCI + Anti IIb/IIIa	OK

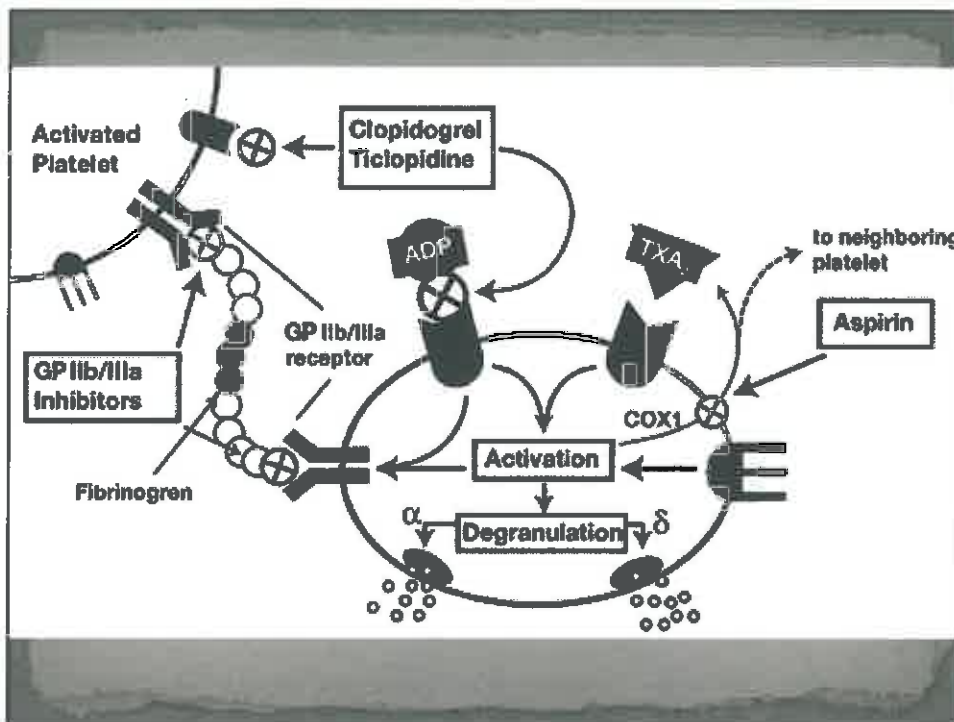
**LATE >6H**

Platelets + Fibrin +++ Turbidity (FXIII)



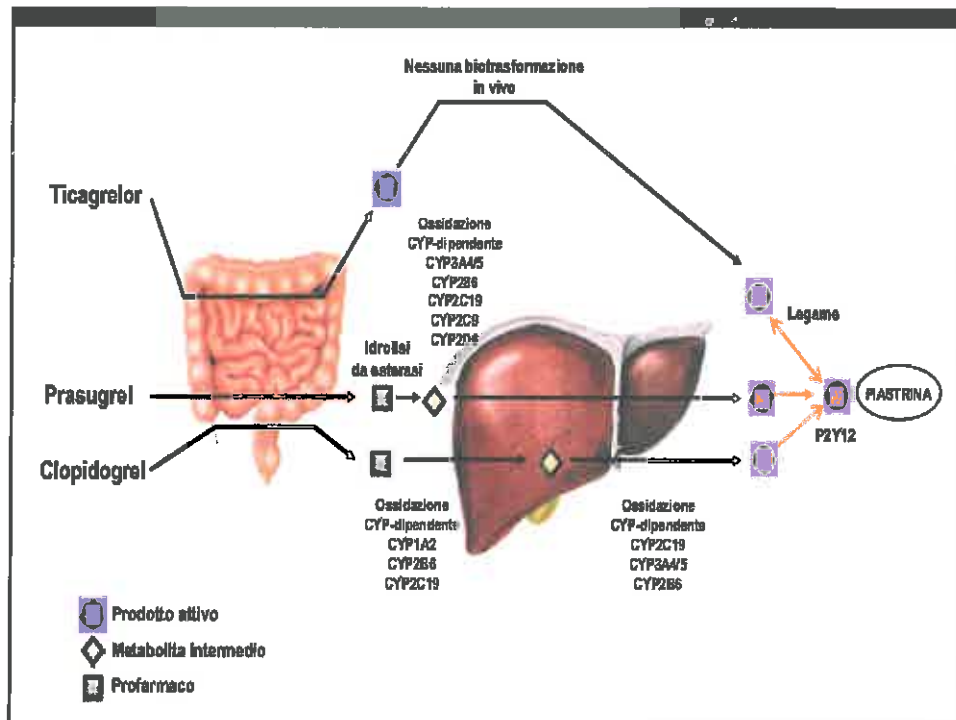
Aspirin	OK
Anti-Thrombin	OK
P2Y12 Inhibitors	OK

Fibrinolysis	OK
PCI	OK
Anti IIb/IIIa	OK



## P2Y<sub>12</sub> Inhibitors

	Clopidogrel	Prasugrel	Ticagrelor
<b>Class</b>	Thienopyridine	Thienopyridine	Triazolopyrimidine
<b>Reversibility</b>	Irreversible	Irreversible	Reversible
<b>Activation</b>	Prodrug, limited by metabolism	Prodrug, not limited by metabolism	Active drug
<b>Onset of effect*</b>	2-4 h	30 min	30 min
<b>Withdrawal before major surgery</b>	5 days	7 days	5 days

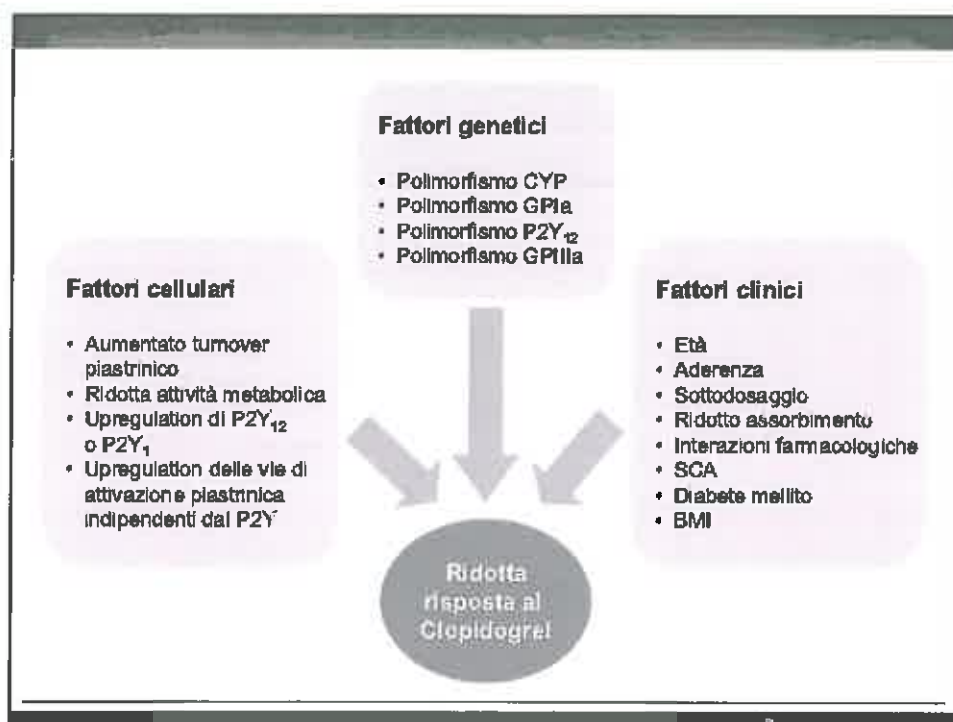


### Clopidogrel (Plavix®) e Ticlopidina (Tiklid®)

- necessitano dell'attivazione epatica (P450)
- *Ticlopidina* può dare piastrinopenia e diarrea, è utilizzata spt dai chirurghi vascolari per curare l'AOCP
- variabilità interindividuale della risposta terapeutica al *Clopidogrel* (spt diabetici, anziani, pz con SCA sottoposti a PCI)

### Prasugrel (Efient®) e Ticagrelor (Brilique®)

- antiaggregazione più rapida con minore variabilità interindividuale dell'efficacia (p.e. meno interazioni farmacologiche (NO attivazione epatica))
- *Prasugrel* è più rapido ma ha > rischio di sanguinamento (*Clopidogrel* e *Ticagrelor* sono più sicuri)



## Fibrinolytic therapy

Recommendations	Class	Level
Fibrinolytic therapy is recommended within 12 h of symptom onset in patients without contraindications if primary PCI cannot be performed by an experienced team within 120 min of FMC.	I	A
In patients presenting early (< 2 h after symptom onset) with a large infarct and low bleeding risk, fibrinolysis should be considered if time from FMC to balloon inflation is > 90 min.	IIa	B
If possible, fibrinolysis should start in the prehospital setting.	IIa	A
A fibrin-specific agent (tenecteplase, alteplase, reteplase) is recommended (over non-fibrin specific agents).	I	B
<b>Interventions following fibrinolysis</b>		
Rescue PCI is indicated immediately when fibrinolysis has failed (< 50 % ST-segment resolution at 60 min).	I	A
Emergency PCI is indicated in the case of recurrent ischaemia or evidence of reocclusion after initial successful fibrinolysis.	I	B

## FIBRINOLISI

- \* entro 2 h dall'inizio dei sintomi (comunque entro 12 h)
- \* se sintomi insorti da non >2 h e PPCI non eseguibile entro 90 min.
- \* senza controindicazioni al trattamento.

### CONTROINDICAZIONI

1. **stroke emorragico o di origine sconosciuta**
2. **stroke ischemico** nei precedenti 6 mesi
3. **tumore-arterioarteriosclerosi SNC**
4. **trauma > / trauma cranico / chirurgia** nelle 3 settimane precedenti
5. **sanguinamento GI** nel mese precedente
6. **patologia emorragica** nota o in atto
7. **diatesi emorragica**
8. **puntura non compatibile <24 h** (biopsia epatica, puntura lombare)

In ogni caso, senza attendere il risultato della fibrinolisi, il pz deve essere trasportato presso un centro Hub per eseguire, in caso di mancata reperfusion, coronarografia.

## Contraindications to fibrinolytic therapy

### Relative

Transient ischaemic attack in the preceding 6 months.

Oral anticoagulant therapy.

Pregnancy or within 1 week postpartum.

Refractory hypertension (systolic blood pressure > 180 mmHg and/or diastolic blood pressure > 110 mmHg).

Advanced liver disease.

Infective endocarditis.

Active peptic ulcer.

Prolonged or traumatic resuscitation.



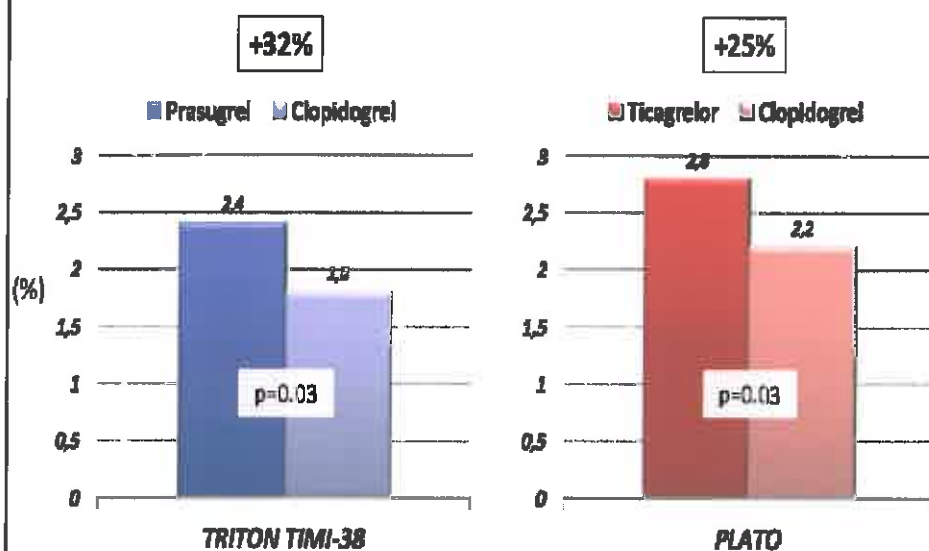
## Routine therapies in the acute, subacute and long term phase of STEMI

Recommendations	Class	Level
In patients with left ventricular thrombus, anticoagulation should be instituted for a minimum of 3 months	IIc	B
In patients with a clear indication for oral anticoagulation (e.g. atrial fibrillation with CHA <sub>2</sub> DS <sub>2</sub> -VASc Score ≥ 2 or mechanical valve prosthesis), oral anticoagulation must be implemented in addition to antiplatelet therapy.	I	C
In patients require triple antithrombotic therapy, combining DAPT and OAC, e.g. because of stent placement and an obligatory indication for OAC, the duration of dual antiplatelet therapy should be minimized to reduce bleeding risk.	I	C
In selected patients who receive aspirin and clopidogrel, low-dose rivaroxaban (2.5 mg twice daily) may be considered if the patient is at low bleeding risk.	IIb	B

Non considerare univocamente a 12 mesi la durata della DAPT dopo STEMI, ma considerare durate minime di:

- BMS: 3-6 mesi
- DES: 1 anno

## Non CABG-related TIMI major bleeding





## NSTEMI

- **GRACE** score ⇒ stratificazione rischio ischemico
- **CRUSADE** score ⇒ stratificazione rischio emorragico

Recommendations	Class	Level
It is recommended to use established risk scores for prognosis and bleeding (e.g. GRACE, CRUSADE).	I	B
Additional ECG leads (V <sub>3</sub> R, V <sub>4</sub> R, V <sub>7</sub> -V <sub>9</sub> ) are recommended when routine leads are inconclusive.	I	C

## Altissimo rischio

instabilità emodinamica, ipotensione o segni di SC

dolore anginoso persistente refrattario alla tp

ST sopra transitorio

aritmie ventricolari maligne (TV, FV)



**coronarografia immediata (<2 h)**

## Alto rischio

Almeno 1 fra i seguenti criteri principali

**ST sotto** transitorio o persistente e/o alterazioni **onda T**  
rialzo significativo **Tn** in assenza di condizioni emodinamiche scatenanti

oppure almeno 1 fra i seguenti criteri secondari:

DM  
IR  
recente PCI  
pregresso CABG  
FE <40%  
angina precoce post-infartuale



coronarografia entro 72 h (meglio 48 h)

All'interno dei pz ad alto rischio è possibile identificare un sottogruppo a

## rischio particolarmente alto

almeno 1 criterio principale

oppure

GRACE score >140




coronarografia entro 24 h

## Basso rischio

I pz che non entrano nelle categorie summenzionate possono essere inviati per coronarografia elettivamente o trattati conservativamente in base alla valutazione clinica individualizzata



coronarografia elettiva o strategia conservativa

 European Heart Journal  
doi:10.1093/eurheartj/ehv320

**ESC GUIDELINES**

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**2015 ESC guidelines for the management of acute coronary syndromes in patients presenting without persistent ST-segment elevation**

**Table 7 Recommended unit and duration of monitoring according to clinical presentation after established NSTEMI-ACS diagnosis**

Clinical Presentation	Unit	Rhythm monitoring
Unstable angina	Regular ward or discharge	None
NSTEMI at low risk for cardiac arrhythmias <sup>a</sup>	Intermediate care unit or coronary care unit	≤24 h
NSTEMI at intermediate to high risk for cardiac arrhythmias <sup>b</sup>	Intensive/coronary care unit or intermediate care unit	>24 h

NSTEMI – Non-ST-elevation myocardial infarction.

<sup>a</sup>If none of the following criteria: haemodynamically unstable, major arrhythmias, left ventricular ejection fraction <40%, failed reperfusion, additional critical coronary stenoses of major vessels or complications related to percutaneous revascularization.

<sup>b</sup>If one or more of the above criteria are present.


**Diagnosis and risk stratification**

It is recommended to base diagnosis and initial short-term **ischaemic and bleeding risk stratification** on a combination of clinical history, symptoms, vital signs, other physical findings, ECG and laboratory results.

It is recommended to obtain a **12-lead ECG** within 10 min after first medical contact and to have it immediately interpreted by an experienced physician. It is recommended to obtain an additional 12-lead ECG in case of recurrent symptoms or diagnostic uncertainty.

**Additional ECG leads** (V<sub>3R</sub>, V<sub>4R</sub>, V<sub>7</sub>–V<sub>9</sub>) are recommended if ongoing ischaemia is suspected when standard leads are inconclusive.

I	A
I	B
I	C



- **GRACE** score  
stratificazione rischio ischemico
- **CRUSADE** score  
stratificazione rischio emorragico

## PCR At Admission Risk Model

### Risk assessment by GRACE score:

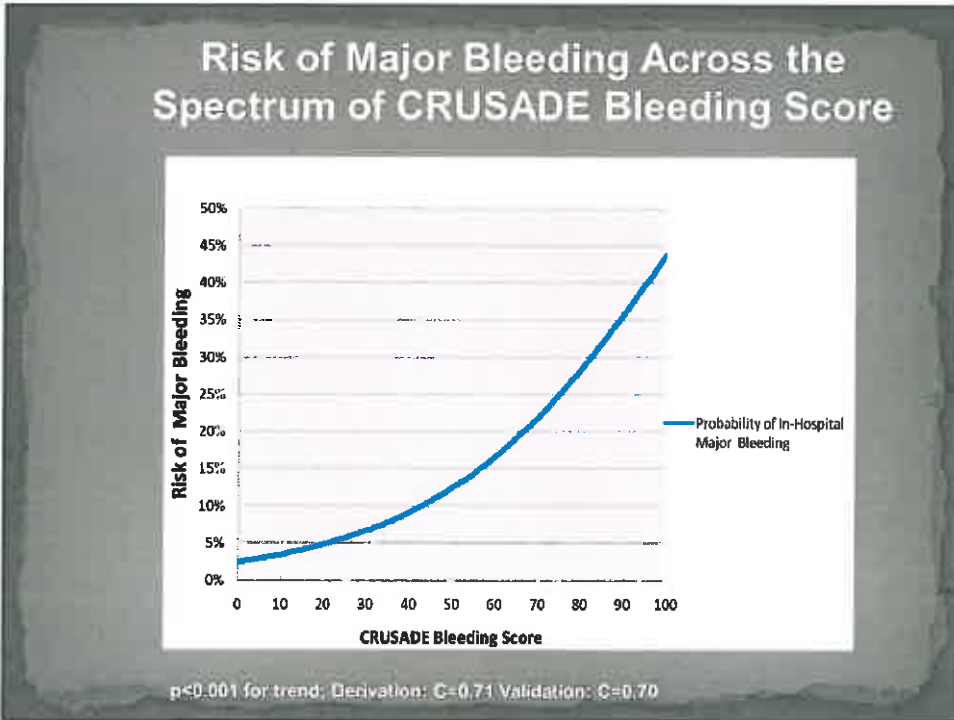
We can assess risk by summation of score for all eight parameters.

Total score	Risk assessment
$\leq 100$	Low risk patients – In-hospital death rate less than 1%
101-170	Medium risk patients – In-hospital death rate 1-9%
$\geq 171$	High risk patients – In-hospital death rate more than 9%

## CRUSADE Bleeding Score Nomogram

Predictor	Range	Score
Baseline Hematocrit (%)	> 41	0
	37-40	1
	34-36	2
	31-33	3
	< 30	4
Creatinine Clearance (ml/min)	> 30	0
	15-30	1
	10-15	2
	5-10	3
	< 5	4
Heart rate (bpm)	< 50	0
	51-60	1
	61-70	2
	71-80	3
	81-90	4
	91-100	5
	> 100	6
Sex	Male	0
	Female	1
Signs of CHF at presentation	No	0
	Yes	1
Prior Vascular Disease	No	0
	Yes	1
Diabetes Mellitus	No	0
	Yes	1
Systolic blood pressure (mm Hg)	< 90	0
	91-100	1
	101-120	2
	> 120	3

Note: Heart rate is truncated at < 70 bpm.  
 CRUSADE = Clopidogrel/Glycyl Linciclinic 30mg/100mg Prior Vascular Disease is defined as prior MI, stroke, or PAD.



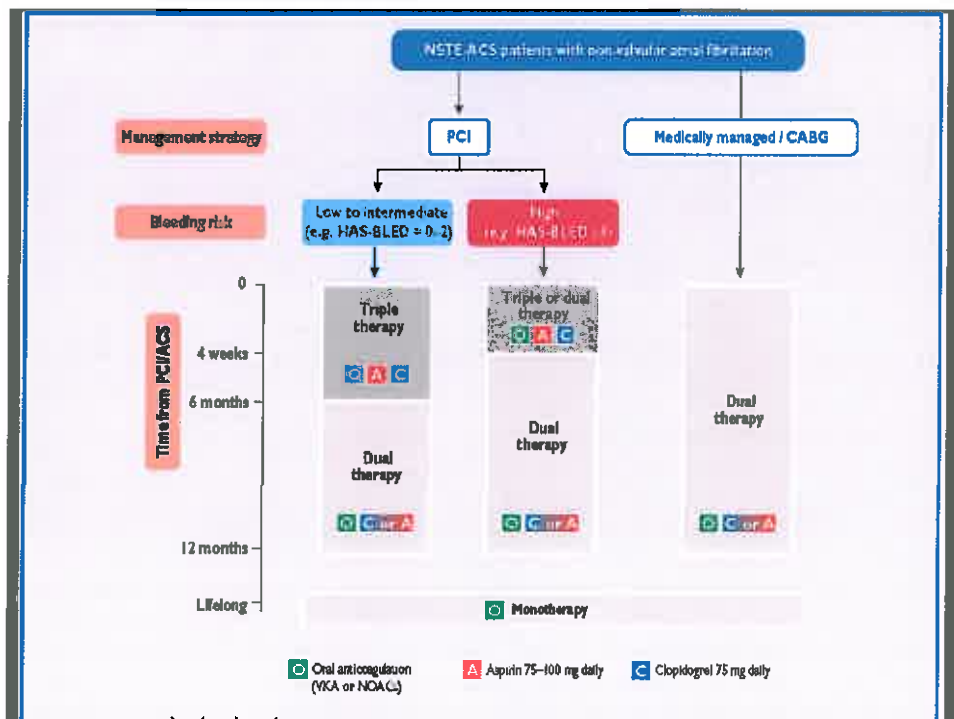
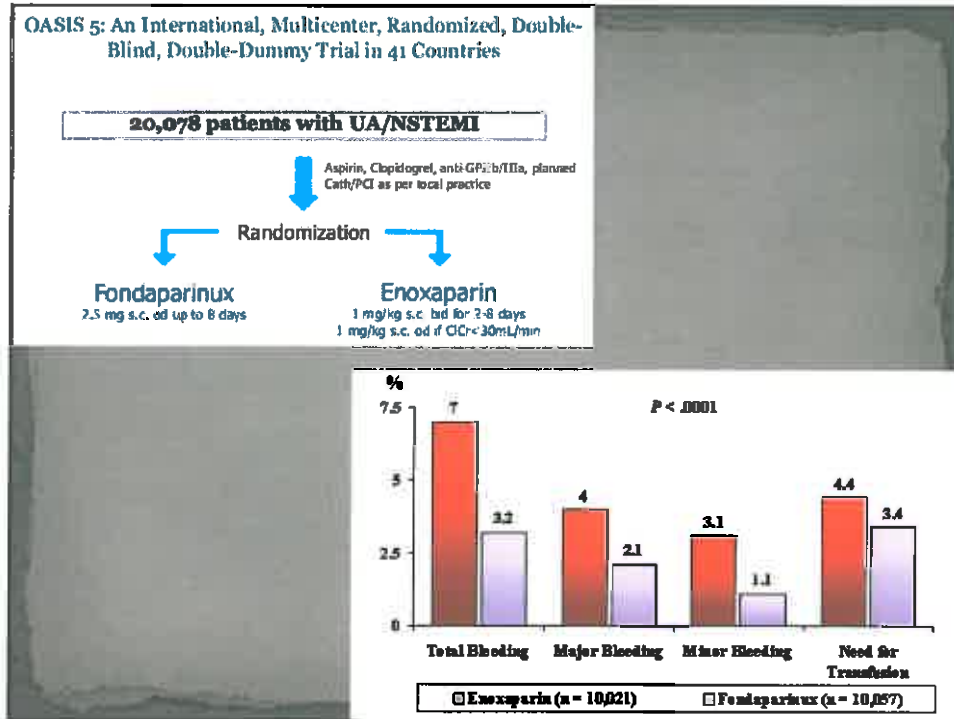


**Recommendations for platelet inhibition in non-ST-elevation acute coronary syndromes**

Recommendations	Class <sup>a</sup>	Level <sup>b</sup>
<b>Oral antiplatelet therapy</b>		
Aspirin is recommended for all patients without contraindications at an initial oral loading dose <sup>c</sup> of 150–300 mg (in aspirin-naïve patients) and a maintenance dose of 75–100 mg/day long-term regardless of treatment strategy.	I	A
A P2Y <sub>12</sub> inhibitor is recommended, in addition to aspirin, for 12 months unless there are contraindications such as excessive risk of bleed:	I	A
• Ticagrelor (180 mg loading dose, 90 mg twice daily) is recommended, in the absence of contraindications <sup>d</sup> for all patients at moderate-to-high risk of ischaemic events (e.g. elevated cardiac troponins), regardless of initial treatment strategy and including those pre-treated with clopidogrel (which should be discontinued when ticagrelor is started).	I	B
• Prasugrel (60 mg loading dose, 10 mg daily thereafter) is recommended in patients who are proceeding to PCI if no contraindication <sup>e</sup> .	I	II
• Clopidogrel (300–600 mg loading dose, 75 mg daily dose) is recommended for patients who cannot receive ticagrelor or prasugrel or who require oral anticoagulation.	I	III
P2Y <sub>12</sub> inhibitor administration for a shorter duration of 3–6 months after DES implantation may be considered in patients deemed at high bleeding risk.	IIIb	A
<b>Intravenous antiplatelet therapy</b>		
It is not recommended to administer prasugrel in patients in whom coronary anatomy is not known.	III	B
<b>GP1Ib/IIIa inhibitors during PCI should be considered for bailout situations or thrombotic complications.</b>	IIIa	C
It is not recommended to administer GP1Ib/IIIa inhibitors in patients in whom coronary anatomy is not known.	III	A
<b>Long-term P2Y<sub>12</sub> inhibition</b>		
P2Y <sub>12</sub> inhibitor administration in addition to aspirin beyond 1 year may be considered after careful assessment of the ischaemic and bleeding risks of the patient.	IIIb	A
<b>General recommendations</b>		
A proton pump inhibitor in combination with DAPT is recommended in patients at higher than average risk of gastrointestinal bleeds (i.e. history of gastrointestinal ulcer/haemorrhage, anticoagulant therapy, chronic NSAID/corticosteroid use or two or more of the following: age ≥ 65 years, dyspepsia, gastro-oesophageal reflux disease, <i>Helicobacter pylori</i> infection, chronic alcohol use).	I	II

### P2Y<sub>12</sub> Inhibitors

	Clopidogrel	Prasugrel	Ticagrelor
<b>Class</b>	Thienopyridine	Thienopyridine	Triazolopyrimidine
<b>Reversibility</b>	Irreversible	Irreversible	Reversible
<b>Activation</b>	Prodrug, limited by metabolism	Prodrug, not limited by metabolism	Active drug
<b>Onset of effect<sup>a</sup></b>	2–4 h	30 min	30 min
<b>Withdrawal before major surgery</b>	5 days	7 days	5 days



### Risk criteria mandating invasive strategy in NSTEMI-ACS

<b>Very high-risk criteria</b>	<b>Immediate invasive strategy (&lt;2 h)</b>
<ul style="list-style-type: none"> <li>• Haemodynamic instability or cardiogenic shock</li> <li>• Recurrent or ongoing chest pain refractory to medical treatment</li> <li>• Life-threatening arrhythmias or cardiac arrest</li> <li>• Mechanical complications of MI</li> <li>• Acute heart failure</li> <li>• Recurrent dynamic ST-T wave changes, particularly with intermittent ST-elevation</li> </ul>	
<b>High-risk criteria</b>	<b>Early invasive strategy (&lt;24 h)</b>
<ul style="list-style-type: none"> <li>• Rise or fall in cardiac troponin compatible with MI</li> <li>• Dynamic ST- or T-wave changes (symptomatic or silent)</li> <li>• GRACE score &gt; 140</li> </ul>	
<b>Intermediate-risk criteria</b>	<b>Invasive strategy (&lt;72 h)</b>
<ul style="list-style-type: none"> <li>• Diabetes mellitus</li> <li>• Renal insufficiency (eGFR &lt;60 mL/min/1.73 m<sup>2</sup>)</li> <li>• LVEF &lt;40% or congestive heart failure</li> <li>• Early post-infarction angina</li> <li>• Prior PCI</li> <li>• Prior CABG</li> <li>• GRACE risk score &gt; 109 and &lt; 140</li> </ul>	
<b>Low-risk criteria</b>	<b>Selective invasive strategy</b>
<ul style="list-style-type: none"> <li>• Any characteristics not mentioned above</li> </ul>	

## GESTIONE DELLA TERAPIA ANTIAGGREGANTE

### Condizioni ad alto rischio di trombosi

- nei primi 12 mesi dopo PTCA + stent medicato
- prima di 6 settimane da PTCA + stent non medicato
- prima di 2 settimane da PTCA senza stent
- infarto miocardico acuto (<7 gg) o recente (<30 gg)
- sindrome coronarica acuta
- anatomia coronarica ad alto rischio

## ANGIOPLASTICA CORONARICA E STENT

Oltre il 90% delle procedure interventistiche coronariche comprende l'impianto di almeno uno stent endocoronarico

### Bare Metal Stent (BMS)

- endotelizzazione: 30 gg
- restenosi: 10-30%

### Drug Eluting Stent (DES)

- endotelizzazione: 180-300 gg
- restenosi: 5-10%

## Premature Discontinuation of Thienopyridine Therapy After DES Implantation

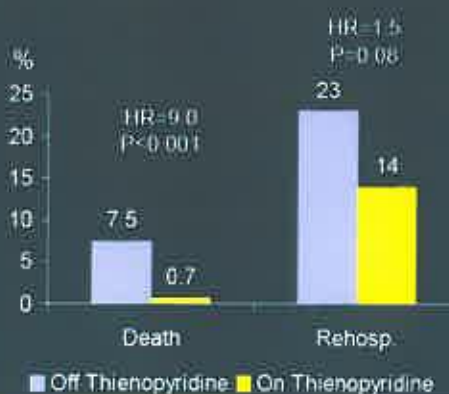
Spertus JA et al. *Circulation* 2006; 113:2803-9

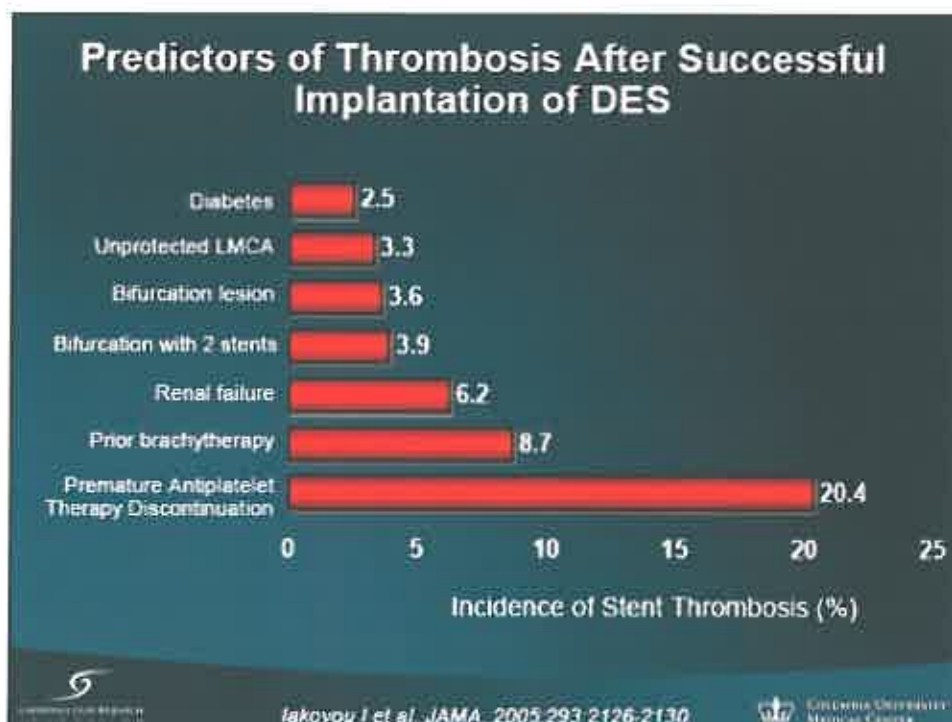
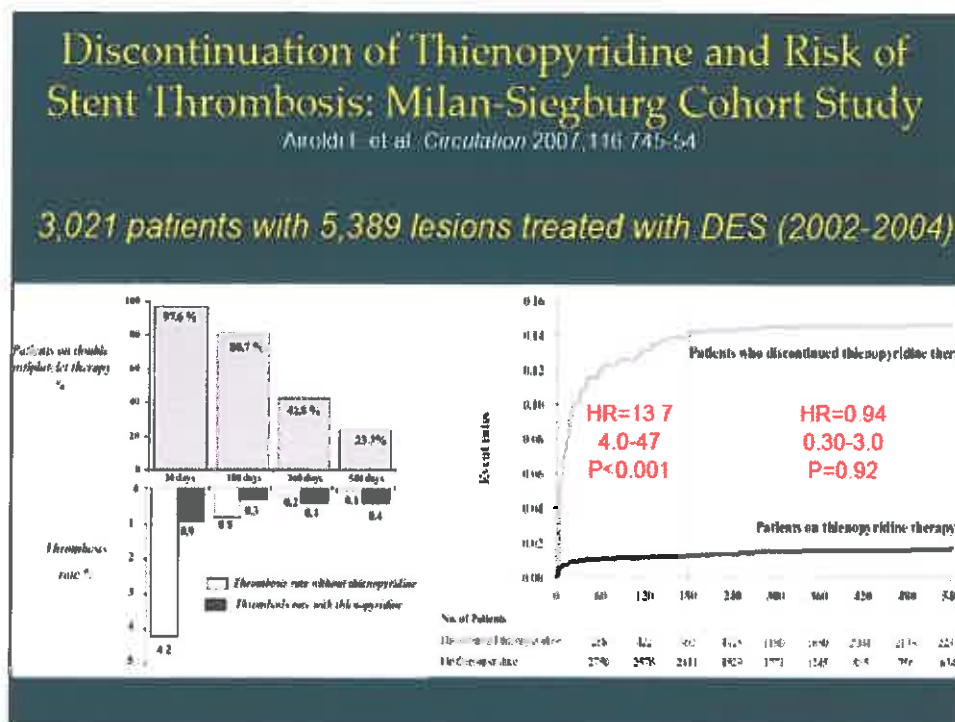
Multicenter, prospective PREMIER registry in patients admitted with myocardial infarction  
 -500 DES patients enrolled at 19 sites  
 -68 (14%) patients d/c thienopyridine

Factors associated with premature Thienopyridine discontinuation

- older age
- lower socioeconomic status
- preexisting cardiovascular disease
- inadequate discharge instructions
- lack of referral to cardiac rehab

### Mortality Between 30 Days and 1 Year







## Mortality rate associated with in-DES late thrombosis

**45%** Milan register  
**44.4%** ERACI III register

Iakovou JAMA

### RISCHIO EMORRAGICO CHIRURGIA ORALE

		RISCHIO EMORRAGICO
Chirurgia Dentale (uso di tecniche di emostasi adeguate e acido tranexamico)	Estrazioni singole o multiple Protesi Endodonzia Igiene dentale Terapia periodontale	Basso
Chirurgia orale estesa		Intermedio

Telecru W. *Qual Anestez* 2016; 58: 205-113-22  
 F. *Acta Odontol* *Journal of Surgery* 2008; 116: 1457-1466



## GESTIONE ANTIAGGREGANTI IN CHIRURGIA ORALE

La maggior parte delle pubblicazioni che ha considerato il rischio di sospendere vs. continuare la terapia antiaggregante nelle procedure dentali ha concluso che la maggior parte dei pazienti può essere sottoposto a tali procedure senza interrompere la terapia antiaggregante, assicurandosi che metodi di emostasi locale vengano usati per controllare eventuali sanguinamenti.

Dati su aspirina

**Non dati su clopidogrel o  
doppia antiaggregazione**

Per ogni articolo, l'articolo originale si può trovare come link all'indirizzo: <http://www.dentalupdate.com>

### **Rischio emorragico basso (+++ frequente)**

- Rischio trombotico basso : che fare?
- ASA: PROSEGUIRE
- INIBITORI RECETTORE P<sub>2</sub>Y<sub>12</sub>:  
sospendere 5 giorni prima, riprendere  
entro 24-72 ore con dose di carico

## Rischio emorragico intermedio : implantologia e chirurgia orale

Rischio trombotico basso: che fare?

**ASA** :proseguire

**Inibitori recettori P<sub>2</sub>Y<sub>12</sub>**: sospendere  
5 giorni prima, riprendere entro 24-  
72 ore con dose carico

Rischio trombotico intermedio: che  
fare?

• **Chirurgia elettiva : differire**

• **Chirurgia non differibile:**

**ASA**: proseguire

**Inibitori recettori P<sub>2</sub>Y<sub>12</sub>**: sospendere 5  
giorni prima, riprendere entro 24-72 ore  
con dose carico

## Rischio trombotico basso: quando?

- > 6 mesi dopo impianto di BMS
- > 12 mesi dopo impianto di DES

## Rischio trombotico intermedio: quando?

- > 1 mese < 6 mesi dopo PCI + BMS
- > 6 mesi < 12 mesi dopo PCI + DES
- > 12 mesi dopo DES a rischio elevato (stent lunghi, multipli, in overlapping, piccoli vasi, biforcazioni, tronco comune, last remaining vessel)

## Rischio trombotico alto

- < 1 mese dopo BMS
- < 6 mesi dopo DES
- < 12 mesi dopo DES a rischio elevato

14

- Clinical benefit of a drug or intervention
  - reduces mortality



- Bleeding complications
  - increases mortality

- Careful patient selection and evaluation
  - age, gender, past history of bleeding, low weight, renal insufficiency

## Diapositiva 72

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- U4** Pertanto il trattamento del paziente con UA/NSTEMI passa attraverso un equilibrio molto delicato che deve prevedere una attenta selezione del paziente e delle sue caratteristiche cliniche al fine di valutare le caratteristiche potenzialmente positive dei farmaci e delle procedure invasive, tenendo conto di quella temibile variabile come il bleeding risk che può contribuire ad aumentare la mortalità

User; 20/09/2011

## TAKE HOME MESSAGE

- **NSTEACS** >> **fondamentale la stratificazione del rischio**, riconoscendo l'opportunità di un intervento precoce **solamente nei pz a > rischio**. L'entità del vantaggio derivante dall'aggressività angiografica immediata è minore, anche perché i **pz con NSTEACS sono più complessi** e l'entità della **coronaropatia può essere maggiore che nello STEMI**, tant'è vero che alla **coronarografia segue un'angioplastica solo in 50-70% casi**. Anche la scelta della procedura di rivascularizzazione (PCI vs CABG) pone maggiori dubbi rispetto allo STEMI, e le linee guida raccomandano una valutazione della scelta da parte dell'*Heart Team* (cardiologo clinico, cardiologo interventista e cardiocirurgo)
- **STEMI** >> **riperfusione sistematica**, pressoché non basata sulla stratificazione del rischio, che viene raccomandata successivamente, più che altro al fine di valutare l'ischemia residua a carico dei territori non infartuati e ai fini di prevenzione secondaria

