

ACC Latin America Conference 2017



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GLOBAL EXPERTS, LOCAL LEARNING



Decision making and timing in Reperfusion for Stemi

Alexandra Arias MD



- Men 55 years
- History
 - DM2 3 years treatment with metformin 850 mg, good control
 - Hiperlypidimea without treament 1 year
 - Smoking 4 years 10 cigarrets a day



 Presented at the ER with progressive, stabbing chest pain that began 2.5 hours prior

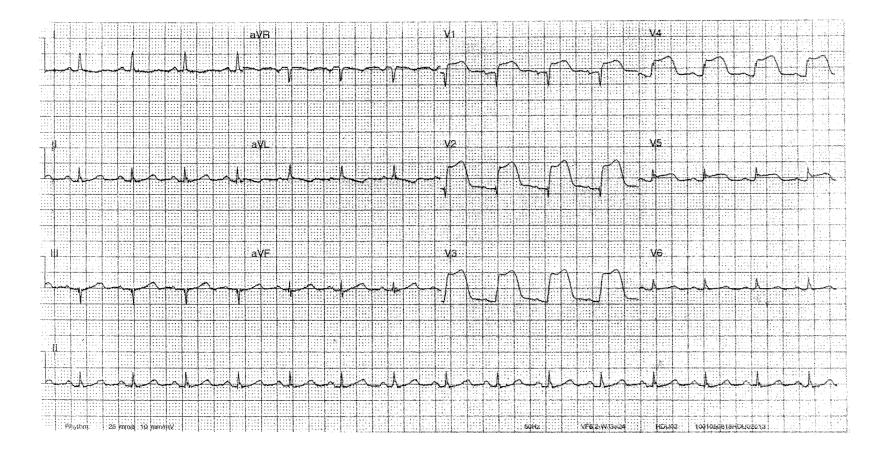


BP 123/75 HR 93 RR 12

No rales, no murmurs, no extra sounds

Normal physical exam









Anterior STEMI – 2hs , Killip Kimball 1 The hospital is non PCI hospital Transfer for PCI hospital > 60 min





Treatment Asprin Clopidogrel

Reperfusion – Which is the best for this patient?





What if the hospitals do not have P-PCI readily available ?

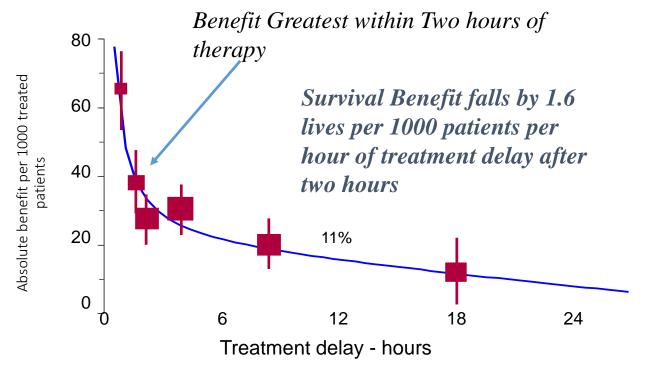




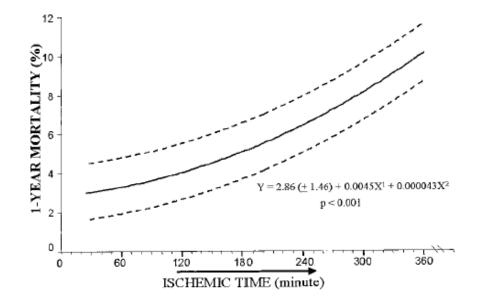
Indications for Fibrinolytic Therapy When There Is a >120-Minute Delay From FMC to Primary PCI

	COR	LOE
lschemic symptoms <12 h	- I	Α
Evidence of ongoing ischemia 12 to 24 h after symptom onset and a large area of myocardium at risk or hemodynamic instability	lla	С
ST depression, except if true posterior (inferobasal) MI is suspected or when associated with ST elevation in lead aVR	III: Harm	В

Thrombolytic Therapy: Importance of Early Therapy



BOERSMA, E. et al Early thrombolytic in acute myocardial treatment infarction : reappraisal of the golden hour - Lancet 1996 ; 771 - 775 Time from Symptom Onset to Treatment Predicts 1-year Mortality after Primary PCI



The relative risk of 1-year mortality increases by 7.5% for each 30-minutes delay

A delay in undergoing primary PCI reduces the benefits of the invasive approach

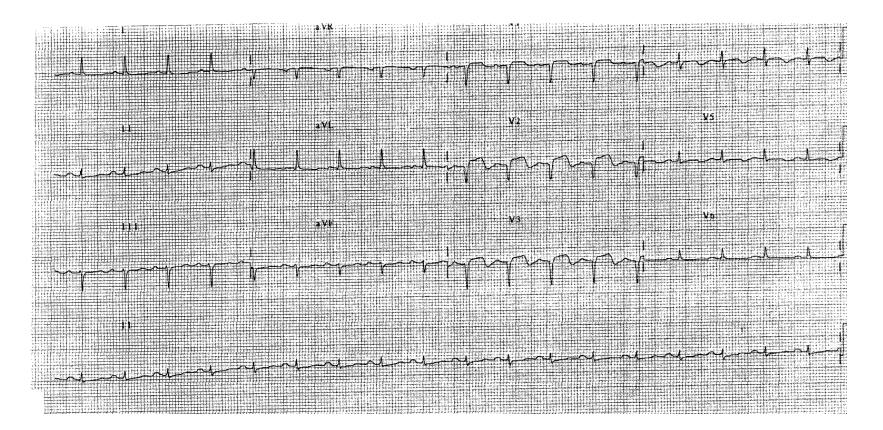
De Luca et al, *Circulation 2004*;109:1223-1225



Treatment Asprin Clopidogrel Tenecteplase New ECG in 60 min - > 50% ST resolution



Case presentation ECG after TNK





Transfer to PCI hospital 12 hours later Angiography LAD lesion 80% Echocardiogram EF 55%, anterior hipocinesia

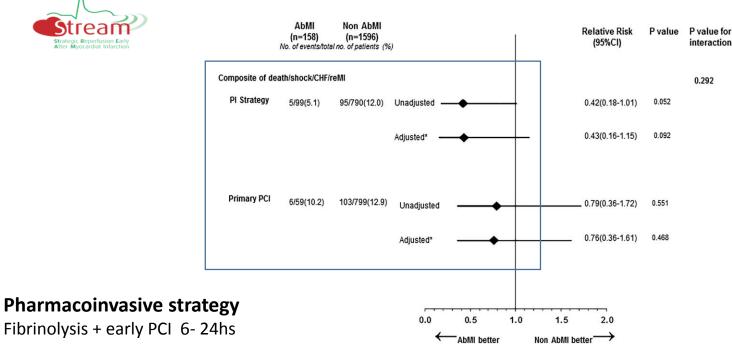




Anterior STEMI



Aborted myocardial infarction in ST-elevation myocardial infarction: insights from the STrategic Reperfusion Early After Myocardial infarction trial



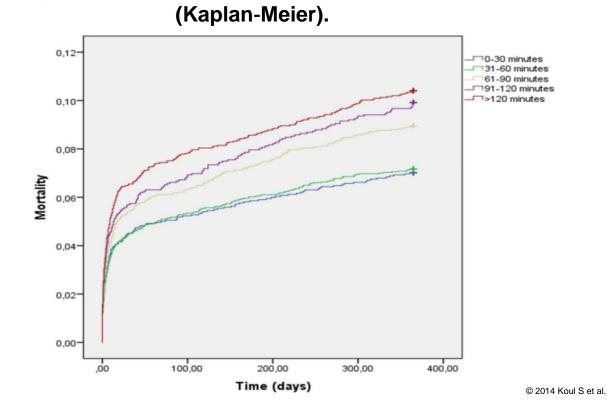
Relative risk plot of the primary composite outcome and its components.

AbMI was defined as ST-elevation resolution ≥50% (90 min

Post tenecteplase (TNK) in the PI arm or 30 min post primary PCI) with minimal biomarker rise.

Heart

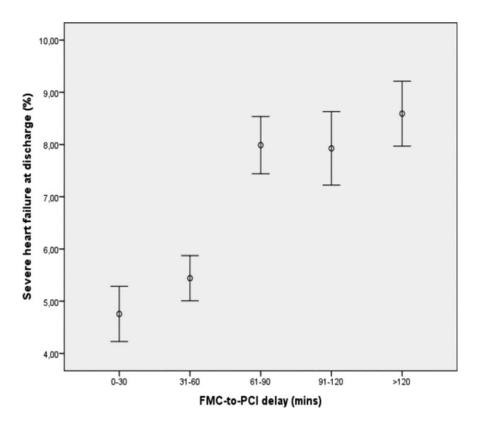
Neda Dianati Maleki et al. Heart 2014;100:1543-1549



Mortality FMC-to-PCI delays in the overall patient cohort (Kaplan-Meier).

Koul S et al. J Am Heart Assoc 2014;3:e000486

Association between FMC-to-PCI delay and severe heart failure at discharge (error bars denote mean with standard error of the mean).





Sasha Koul et al. J Am Heart Assoc 2014;3:e000486



Conclusion

- Pharmaco-invasive t(hrombolysis + angioplasty)
 approach is a safe and effective to improve reperfusion
 rates and decrease mortality/morbidity for STEMI
 patients
- It is the best option in regions or hospital without PCI