

Strong Role Remains for Primary Lytics Early in MI

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SNOWMASS, COLO. — The demonstrated superiority of primary percutaneous coronary intervention over fibrinolytics for acute MI in randomized trials has led to a “transfer mania” that is at times counterproductive, Dr. Bernard J. Gersh said at a conference sponsored by the Society for Cardiovascular Angiography and Interventions.

There is solid evidence that the first 2 hours after MI symptom onset represents a golden window of opportunity. Achievement of reperfusion during this window provides far greater myocardial salvage and mortality benefits than at any later time. And the best way to accomplish this in patients who present to community hospitals during this early time period is by urgent administration of intravenous thrombolytic agents, he said.

The delay inherent in transferring such

patients to a facility capable of primary PCI shuts the window of opportunity and moves them into the flatter part of the survival curve. “I find that intellectually indefensible,” said Dr. Gersh, professor of medicine at the Mayo Medical School, Rochester, Minn.

He added that it has been known for at least 13 years that thrombolytic therapy is “extraordinarily effective” when given early after symptom onset. The Myocardial Infarction Triage Intervention (MITI) tri-

al showed that 30-day mortality in patients treated within 70 minutes after symptom onset was 1.2%, compared with 8.7% in patients treated later, and that left ventricular infarct size following treatment within 70 minutes of symptom onset was only 4.9%, compared with 11.2% in patients treated later.

More recently, in the Assessment of the Safety and Efficacy of a New Thrombolytic Regimen-3 (ASSENT-3) trial, 25% of aborted MIs as defined by ECG and car-

Important prescribing and safety considerations

Indications for INTEGRILIN Injection:

- For the treatment of patients with acute coronary syndrome (UA/NSTEMI), including patients who are to be managed medically and those undergoing percutaneous coronary intervention (PCI)
- For the treatment of patients undergoing PCI, including those undergoing intracoronary stenting

Contraindicated in Patients With:

- A history of bleeding diathesis or evidence of active abnormal bleeding within the previous 30 days
- Severe hypertension (systolic blood pressure >200 mm Hg or diastolic blood pressure >110 mm Hg) not adequately controlled on antihypertensive therapy
- Major surgery within the preceding 6 weeks
- History of stroke within 30 days, or any history of hemorrhagic stroke
- Current or planned administration of another parenteral GP IIb/IIIa inhibitor
- Dependency on renal dialysis
- Known hypersensitivity to any component of the product

Precautions and Warnings:

- In patients undergoing PCI, INTEGRILIN is associated with an increase in major and minor bleeding at the site of arterial sheath placement. Special care should be employed to minimize the risk of bleeding among these patients

- If bleeding cannot be controlled with pressure, infusion of INTEGRILIN and concomitant heparin should be stopped immediately
- Because INTEGRILIN inhibits platelet aggregation, caution should be employed when it is used with other drugs that affect hemostasis, including thrombolytics, oral anticoagulants, NSAIDs, and dipyridamole
- Use with other GP IIb/IIIa inhibitors should be avoided
- INTEGRILIN is cleared in part by the kidney and its plasma concentrations are doubled in patients with renal disease (creatinine clearance <50 mL/min). Therefore, the infusion dose of INTEGRILIN needs to be reduced to 1 mcg/kg/min in these patients. INTEGRILIN is contraindicated in patients who are dependent upon renal dialysis (please see dosing guidelines)
- Caution should be exercised when administering INTEGRILIN to patients with a platelet count <100,000/mm³
- Bleeding is the most common complication encountered during INTEGRILIN therapy. The majority of excess major bleeding events were localized at the femoral artery access site. Oropharyngeal, genitourinary, gastrointestinal, and retroperitoneal bleeding were also seen more commonly with INTEGRILIN compared to placebo


PURSUIT was a multicenter, double-blind, randomized, placebo-controlled study in 10,948 patients presenting with UA or NSTEMI. The primary endpoint was death from any cause or new MI within 30 days of randomization.

ESPRIT was a multicenter, double-blind, randomized, placebo-controlled study that enrolled 2064 patients undergoing elective or urgent PCI with intended intracoronary stent placement. The primary endpoint was the composite of death, MI, urgent target vessel revascularization and “bailout” to open-label INTEGRILIN at 48 hours.

PROTECT TIMI 30 was a randomized trial to evaluate the relative protection against post-PCI microvascular dysfunction and post-PCI ischemia among antiplatelet and antithrombotic agents. Patients were randomized to receive INTEGRILIN plus UFH or enoxaparin or bivalirudin alone. All patients received aspirin plus clopidogrel (300 mg before stenting).

References: 1. The EPIC Investigators. Use of a monoclonal antibody directed against the platelet glycoprotein IIb/IIIa receptor in high-risk coronary angioplasty. *N Engl J Med.* 1994;330:956-961. 2. Fintel DJ, Ledley GS. Management of patients with non-ST-segment elevation acute coronary syndromes: insights from the PURSUIT trial. *Clin Cardiol.* 2000;23(suppl V):V-1-V-12. 3. ESPRIT Investigators. Novel dosing regimen of eptifibatide in planned coronary stent implantation (ESPRIT): a randomised, placebo-controlled trial. *Lancet.* 2000;356:2037-2044. 4. Horwitz PA, Kimmel SE. Bleeding due to glycoprotein IIb/IIIa receptor inhibition during percutaneous coronary intervention: risk factors and management. *Cardiovasc Rev Rep.* 2004;25:249-255. 5. The EPILOG Investigators. Platelet glycoprotein IIb/IIIa receptor blockade and low-dose heparin during percutaneous coronary revascularization. *N Engl J Med.* 1997;336:1689-1696. 6. Data on file, Schering Corporation, 2005.

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