16年経過してもPCIは未だ血栓溶解療法に勝る

DANAMI-2試験: 冠動脈ステント留置により死亡または再梗塞を1年以上遅らせるこ とができる

DANAMI-2: Death or reinfarction delayed by more than one year with coronary stenting

転院を含むプライマリ経皮的冠動脈インターベンション(PCI)治療により、血栓溶解療法に比 べ死亡または再梗塞を1年以上遅らせることができる、との DANAMI-2試験の結果が ESC Congress 2019 の Hot Line Session で発表され、European Heart Journal に掲載された。ブ ライマリPCIを施行された患者は、16年間の総死亡または再梗塞からなる複合エンドポイント発 現率が持続的かつ有意に低かった。これはコホート全体(PCI 58.7% vs. 血栓溶解療法 62.3%、ハザード比 [HR] 0.87) および紹介病院からPCI可能な高度医療センターに転送され た患者(PCI 58.7% vs. 血栓溶解療法 64.1%、HR 0.84)、いずれにおいても明らかであった。

Full Text

Death or reinfarction is delayed by more than one year with a primary percutaneous coronary intervention (PCI) strategy that includes hospital transfer, compared to fibrinolysis, to late breaking results from the DANAMI-2 trial presented in a Hot Line Session at ESC Congress 2019 together with the World Congress of Cardiology and published in European Heart Journal.

"In the longest follow-up to date, the analysis confirms that primary PCI should be offered to ST-segment elevation myocardial infarction (STEMI) patients if transfer to a PCI center can be achieved within 120 minutes," said first author Pernille Thrane of Aarhus University, Denmark

The DANish Acute Myocardial Infarction 2 (DANAMI-2) trial was the first to show that a reperfusion strategy with interhospital transport for primary PCI is superior to fibrinolysis at the local hospital in patients with STEMI at 30 days. Follow-up studies found sustained benefit at three and eight years.

"Very long-term outcomes are important to understand the full clinical impact of primary PCI versus fibrinolysis in STEMI patients," said principal investigator Dr. Michael Maeng of Aarhus University Hospital and Aarhus University. "But high costs and logistical challenges often limit the follow-up

This analysis of the trial investigated cardiovascular outcomes and mortality after 16 years of follow-up. A total of 1,572 STEMI patients were enrolled at 24 referral hospitals and five invasive centers in Denmark. Patients were randomly allocated to primary PCI or fibrinolysis. Patients randomized to primary PCI at referral hospitals were immediately transported to the nearest invasive center. For the first three years patients were followed- up with visits at the randomizing hospital. Afterwards, outcome data was obtained from Danish registries. The primary endpoint for this analysis was a composite of all-cause death or reinfarction

Patients treated with primary PCI had a sustained and significantly lower rate of the composite endpoint of all- cause mortality or reinfarction at 16 years compared to patients treated with fibrinolysis. This was evident in both the entire cohort (PCI 58.7% versus fibrinolysis 62.3%) and in patients transported from a referral hospital to a PCI-capable tertiary hospital (PCI 58.7% versus fibrinolysis 64.1%)

Hazard ratios (HRs) for the benefit of primary PCI over fibrinolysis were 0.87 for the entire cohort and 0.84 for the transferred subgroup. The difference was primarily driven by a consistently reduced rate of reinfarction with primary PCI compared to fibrinolysis (PCI 17.5% versus fibrinolysis 21.8%; HR 0.78).

The average time to the composite endpoint was 10.6 years in the primary PCI group, leading to an average event postponement of 12.3 months compared to fibrinolysis. Furthermore, primary PCI reduced cardiac mortality by an absolute 4.4% (PCI 18.3% versus fibrinolysis 22.7%; HR 0.78), which is the first time that a single study has been able to demonstrate this benefit.

ESC guidelines recommend that STEMI patients are immediately transferred for primary PCI if the time from first medical contact to reperfusion is within 120 minutes. "This timeframe is based on the initial DANAMI-2 results and the long-term benefits are confirmed by this 16-year follow-up," said

Funding for the study was received from Novo Nordic Foundation and Cardiology Research Unit at Aarhus University Hospital, Denmark. Ms. Thrane is the recipient of a research scholarship from Novo Nordic Foundation. Dr. Maeng reports lecture and advisory board fees from Astra-Zeneca, Bayer, Boehringer-Ingelheim, Boston Scientific, Bristol-Myers Squibb, and Novo Nordisk

Conference News

大気汚染は血管形成術の施行率を上昇させる

糖尿病患者におけるチカグレロルの<u>臨床的有</u>

STEMI後の非責任病変におけるPCIで予後を

[News 04] ダパグリフロジンは糖尿病だけでなく心不全 も治療する

に勝る

駆出率の保たれた心不全は依然として治療が

高感度トロポニンを用いた単回の検査でMI を除外する

16年経過してもPCIは未だ血栓溶解療法に勝

β 遮断薬は腎機能障害を有する患者であって . も死亡率を低下させる

PCIとCABGには10年後の死亡率に差はない

2年後の時点で経皮的僧帽弁修復術の有益性 は認められなかった

コレステロールおよび血圧の穏やかな低下の

[News 13] 地域住民を対象とした塩分置換プログラムは 血圧を低下させる

心不全における一次予防としてのICDは死亡 リスクを低下させる

PCI後予防的ICDの長期の有益性

末梢動脈疾患に対してスタチンを開始するの に遅すぎることはない

心不全および脳卒中患者において白質病変は -般的である

うつ病は介護者の身体的健康と関連がある

MI後の内出血はがんを疑うきっかけとなる