

ACSにおいてプラスグレルはチカグレロルに勝る

ISAR-REACT 5試験: プラスグレルはPCIが予定されている急性冠症候群患者の虚血性イベントを減少させる

ISAR-REACT 5: Prasugrel cuts ischemic events in acute coronary syndrome patients headed to PCI

急性冠症候群を有し侵襲的治療を予定されている患者の虚血イベントを低下させるにあたり、プラスグレルはチカグレロルよりも優れている、とのISAR-REACT 5試験の結果が ESC Congress 2019で発表され、*New England Journal of Medicine* に掲載された。一次複合エンドポイント(12か月以内の死亡、心筋梗塞、脳卒中)は、チカグレロル群で9.3%に発現したのに対し、プラスグレル群では6.9%であった($p=0.006$)。一次エンドポイントそれぞれの発現は、チカグレロル群とプラスグレル群とで、死亡は4.5% vs. 3.7%、心筋梗塞は4.8% vs. 3.0%、脳卒中は1.1% vs. 1.0%であった。

Full Text

Prasugrel is superior to ticagrelor for reducing ischemic events in patients with acute coronary syndrome and a planned invasive strategy. The late breaking results of the ISAR-REACT 5 trial are presented in a Hot Line Session at ESC Congress 2019 together with the World Congress of Cardiology and published in the *New England Journal of Medicine*. There was no increase in the rate of major bleeding with prasugrel.

In acute coronary syndromes, a dual antiplatelet regimen with a P2Y12 receptor antagonist plus aspirin is the cornerstone of treatment. Prasugrel and ticagrelor provide greater, more rapid, and consistent platelet inhibition compared to their predecessor clopidogrel. Both drugs are recommended over clopidogrel for 12 months after percutaneous coronary intervention (PCI) in acute coronary syndrome patients with and without ST-segment elevation (STEMI and NSTEMI-ACS, respectively). Until now, the relative merits of ticagrelor versus prasugrel for the one-year treatment of acute coronary syndrome patients were unknown.

The ISAR-REACT 5 trial tested the hypothesis that ticagrelor is superior to prasugrel in reducing the primary composite endpoint of death, myocardial infarction, or stroke within 12 months in acute coronary syndrome patients intended for an invasive strategy. A total of 4,018 patients were enrolled from 23 centers in Germany and Italy and randomly allocated to prasugrel or ticagrelor.

Patients assigned to ticagrelor received a loading dose as soon as possible after randomization. In other words, the timing of study drug administration was irrespective of clinical presentation and knowledge of coronary anatomy. In the prasugrel group, the timing of study drug initiation depended on clinical presentation. STEMI patients received prasugrel as soon as possible after randomization (i.e. they were pretreated). In patients with NSTEMI-ACS, administration of the prasugrel loading dose required knowledge of the coronary anatomy.

The primary composite endpoint of death, myocardial infarction, or stroke at 12 months occurred in 9.3% of patients in the ticagrelor group and 6.9% in the prasugrel group (hazard ratio [HR] 1.36; 95% confidence interval [CI] 1.09–1.70; $p = 0.006$).

The incidence of the individual components of the primary endpoint in the ticagrelor and prasugrel groups was 4.5% versus 3.7% for death, 4.8% versus 3.0% for myocardial infarction, and 1.1% versus 1.0% for stroke. Definite or probable stent thrombosis occurred in 1.3% of patients assigned to ticagrelor and 1.0% assigned to prasugrel and definite stent thrombosis in 1.1% versus 0.6% of patients, respectively.

The increase in anti-ischemic efficacy with prasugrel was not accompanied by a raised bleeding risk. Bleeding (BARC class 3 to 5) was observed in 5.4% of patients in the ticagrelor group and 4.8% of patients in the prasugrel group (HR 1.1; 95% CI 0.8–1.5; $p = 0.46$).

Principal investigator Professor Stefanie Schuepke of the German Heart Centre Munich said: "In this investigator-initiated, multicenter, randomized clinical trial of invasively treated acute coronary syndrome patients, prasugrel significantly reduced the composite rate of death, myocardial infarction, or stroke compared to ticagrelor with no rise in the rate of major bleeding."

This trial was supported by the DZHK (German Centre for Cardiovascular Research) and the Deutsches Herzzentrum München. Prof. Schuepke reports grants from the DZHK (German Centre for Cardiovascular Research), the Else-Kröner-Memorial Stipendium from the Else Kröner-Fresenius-Stiftung and consulting fees from Bayer Vital GmbH.

Conference News

[News 01]

大気汚染は血管形成術の施行率を上昇させる

[News 02]

糖尿病患者におけるチカグレロルの臨床的有用性

[News 03]

STEMI後の非責任病変におけるPCIで予後を改善

[News 04]

ダバグリフロジンは糖尿病だけでなく心不全も治療する

[News 05]

ACSにおいてプラスグレルはチカグレロルに勝る

[News 06]

駆出率の保たれた心不全は依然として治療が困難である

[News 07]

高感度トロポニンを用いた単回の検査でMIを除外する

[News 08]

16年経過してもPCIは未だ血栓溶解療法に勝る

[News 09]

β 遮断薬は腎機能障害を有する患者であつても死亡率を低下させる

[News 10]

PCIとCABGには10年後の死亡率に差はない

[News 11]

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

[News 12]

コレステロールおよび血圧の穏やかな低下の効果

[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

[News 14]

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

[News 15]

PCI後予防的ICDの長期の有益性

[News 16]

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

[News 17]

心不全および脳卒中患者において白質病変は一般的である

[News 18]

うつ病は介護者の身体的健康と関連がある

[News 19]

MI後の内出血はがんを疑うきっかけとなる