

アリロクマブは急性冠症候群後の心血管イベントを軽減 する(Abstract 18-LB-18859-ACC)

ODYSSEY: PCSK9阻害薬は特に高コレステロール血症患者においてベネフィットがある ODYSSEY: Benefits of PCSK9 inhibitor especially pronounced in patients with highest cholesterol levels

高強度のスタチン治療にもかかわらず高コレステロール血症が持続する患者群において、 PCSK9阻害薬アリロクマブはプラセボに比べ、主要心血管イベント(MACE)を15%軽減した、 とのODYSSEY Outcomes 試験の結果がAmerican College of Cardiology's 67th Annual Scientific Session で発表された。薬剤の効果は、LDLコレステロール値100mg/dL以上の高り スク群でさらに大きく、プラセボに比べ心筋梗塞、脳卒中などの心血管イベントにおいて24%の 減少を示した。患者は少なくとも2年間追跡され、そのうち44%は3年以上追跡された。

Full Text

Among patients with persistently high cholesterol despite high-intensity statin therapy, the proprotein convertase subtilisin-kexin 9 (PCSK9) inhibitor alirocumab reduced rates of major adverse cardiovascular events (MACE) by 15 percent compared with placebo, in a study presented at the American College of Cardiology's 67th Annual Scientific Session. The drug's effect was even greater for patients at highest risk—those who started the study with LDL of 100 and 100 the proposed of the propo ma/dL or higher who saw a 24 percent reduction in cardiovascular events, including myocardial infarction (MI) and stroke, compared with placebo

called ODYSSEY Outcomes, was conducted in patients who had recently had an acute coronary syndrome (ACS). Such patients face a substantial risk of further cardiovascular problems and related death, particularly if their cholesterol level is not adequately controlled. Alirocumab is a fully human monoclonal antibody that works by blocking PCSK9. This action of the drug allows the liver to remove more LDL from the blood and lowers the concentration of LDL cholesterol in the blood

Previous research has shown that PCSK9 inhibitors reduce LDL levels by about half — but ODYSSEY Outcomes is only the second large, randomized trial to investigate whether this LDL reduction translates into improved cardiovascular outcomes. It's the first study with a PCSK9 inhibitor to show an associated mortality benefit, researchers said.

FOURIER, the first outcomes trial, presented at ACC.17, similarly reported that evolocumab, a different PCSK9 inhibitor, reduced the risk of death, MI, stroke, hospitalization for angina or revascularization procedures to clear blocked arteries by

Compared with FOURIER, the ODYSSEY Outcomes trial enrolled a higher-risk group of patients, had a longer duration of follow-up (ranging from two to five years), involved a different dosing strategy and had a slightly different primary endpoint. In addition to significantly reducing the primary endpoint — a combined rate of MI, stroke, hospitalization for unstable angina or death from coronary heart disease — alirocumab was also associated with a 15 percent reduction in death from any cause among the full patient population and a 29 percent reduction in death from any cause among those who started the trial with LDL cholesterol above 100 mg/dL. The study did not raise any major safety concerns for alirocumab.

"We were really pleased to see the treatment was effective and associated with a reduction in mortality. It is remarkable that such a potent intervention is also so safe," said Philippe Gabriel Steg, MD, chief of cardiology at Hôpital Bichat in Paris and co-chair of the study. "Because the treatment effect was so much more marked in the patients with the highest LDL cholesterol, we believe that these patients are the optimal candidates for therapy.

Researchers enrolled nearly 19,000 patients at more than 1,300 centers in 57 countries. All patients had ACS within one month to one year before enrolling in the study. The trial included those whose LDL cholesterol remained70 mg/dL or above, non-HDL cholesterol 100 mg/dL or above, or apolipoprotein B 80 mg/dL or above despite treatment with a high or maximum-tolerated dose of a high-potency statin (atorvastatin or rosuvastatin).

Patients were randomly assigned to receive injections of either alirocumab or placebo every two weeks. Neither patients nor doctors knew who received the drug. To mimic the adjustments a doctor might make when using the drug, those patients randomized to receive alirocumab had their doses adjusted in a blinded fashion (neither patients nor doctors were aware of the adjustments) in efforts to reach LDL cholesterol levels of 25-50 mg/dL. If LDL cholesterol levels dropped consistently below 15 mg/dL, the patient was switched to placebo, again in a blinded fashion

Patients were tracked for at least two years, with 44 percent tracked for three years or more. Overall, the primary endpoint occurred in 9.5 percent of those receiving alirocumab and 11.1 percent of those receiving placebo, while 3.5 percent of those receiving alirocumab and 4.1 percent of those receiving placebo died.

When researchers looked at causes of death separately, there was no significant difference between the two groups in terms of coronary heart disease and cardiovascular disease deaths. However, Steg noted there may not have been enough events in each subcategory to show a definite difference

Patients starting the trial with LDL cholesterol levels above 100 mg/dL saw improvements in all outcomes that were assessed, including rates of MI, stroke, unstable angina requiring hospitalization, coronary heart disease death, cardiovascular death and death from any cause. Among these patients, the primary endpoint occurred in 11.5 percent of those receiving alirocumab and 14.9 percent of those receiving placebo, while 4.1 percent of those receiving alirocumab and 5.7 percent of those receiving placebo died.

In terms of safety and tolerability, the only significant difference between the two study groups was minor local site reactions (mild itching, redness or swelling) at the injection site, which occurred in 3.1 percent of those receiving alirocumab and 2.1 percent of those receiving placebo.

Researchers will use the trial data to evaluate the cost-effectiveness of alirocumab. PCSK9 inhibitors cost tens of thousands of dollars per year and are often not covered by insurers

"Now that we have two trials that consistently show benefits from PCSK9 inhibitors, and given the mortality benefit that we are reporting here for the first time, I think these results may change the equation for these drugs" Steg said. "We're not just talking about preventing nonfatal events such as MIs but actually preserving life."

Researchers will continue to track patient outcomes for up to 10 years to determine whether the benefits continue after stopping the drug.

The trial was funded by Sanofi and Regeneron Pharmaceuticals

ACC2018特集

[News01]

気候変動は心筋梗塞リスクを上昇させる可能 性がある

[News02]

炎症性腸疾患はMIリスクを上昇させる

[News03]

前向きな態度は狭心症患者の転帰を改善する

[News04]

アリロクマブは急性冠症候群後の心血管イベ ントを軽減する

着用型自動除細動器は全死亡を減らすが突然 死には影響しない

[News06]

心不全患者にとってインフルエンザワクチン は有益である

. 音楽は運動負荷試験中の運動時間を増加させる

[News08]

がん治療は心不全リスクを上昇させる

[News09]

遺伝子型解析はPCI後の薬物選択において有 益である

[News10]

3種の低用量内服は高血圧管理に成功した

ACSにおけるスタチンのローディングドーズ 投与は臨床イベントリスクを減少させない

[News12]

卵円孔開存患者においてデバイスが転帰を 改善する

[News13]

. ダビガトランは非心臓手術後の心筋障害を 軽減する

[News14]

短期抗血小板薬2剤併用療法はMIリスクを上 昇させる

薬剤が第Xa因子阻害効果をリバースする

Canakinumabは糖尿病への進行を予防しない

MI後のチカグレロル使用の安全性はクロピド グレルと同等である

[News18]

積極的なモニタリングはAFibの診断率を3倍 に上昇させる

[News19]

化学療法による心毒性の軽減

[News20]

カルベジロールは乳がん女性の心臓を保護