

Evacetrapibトライアルは早期中断された(LBCT 404-08)

ACCELERATE: Evacetrapibはコレステロールには影響したものの主要有害心血管イベントは軽減しなかった

ACCELERATE: Evacetrapib fails to reduce major adverse cardiovascular events despite impacts on cholesterol

低比重リポ蛋白 (LDL) を低下させ高比重リポ蛋白 (HDL) を著明に増加させたにもかかわらず、コレステロール治療薬evacetrapibを調べる大規模臨床試験は予備的解析において、この薬剤が重大な有害心血管イベントを軽減させないことが示された後に早期中断された、と第65回 American College of Cardiology年次集会で発表された。第3相ACCELERATEトライアルにおいて、コレステロールに対する好ましい効果はスタディの主要エンドポイント(心血管死までの時間、心筋梗塞、脳卒中、冠動脈バイパス手術または不安定狭心症による胸痛のための入院)を低下させることには少しもつながらなかった。

Full Text

Despite lowering low-density lipoprotein (LDL) while markedly increasing levels of high-density lipoprotein (HDL), a large clinical trial to investigate the cholesterol drug evacetrapib was discontinued early after a preliminary analysis showed it did not reduce rates of major adverse cardiovascular events, according to research presented at the American College of Cardiology's 65th Annual Scientific Session.

The favorable effects on cholesterol did not translate into any reduction in the study's primary endpoint: the amount of time until cardiovascular death, myocardial infarction, stroke, coronary artery bypass surgery or hospitalization for chest pain due to unstable angina.

"Here we've got an agent that more than doubles the levels of good cholesterol and lowers bad cholesterol and yet has no effect on clinical events," said Stephen Nicholls, M.B.B.S, Ph.D., a professor at Australia's University of Adelaide, cardiologist at Royal Adelaide Hospital and the study's lead author. "We were disappointed and surprised by the results."

The ACCELERATE trial was a phase 3, randomized, double-blind trial conducted in approximately 540 global health centers involving more than 12,000 patients at high risk for serious cardiovascular problems. Participants were randomized to receive either 130 milligrams of evacetrapib or a placebo daily for at least 18 months. All patients also received standard medical therapy throughout the trial, which in a vast majority of cases included treatment with statins or other cholesterol-lowering drugs.

On average, patients taking evacetrapib lowered their LDL cholesterol by 37 percent and increased their HDL cholesterol by 130 percent compared with patients taking a placebo. However, there was no difference between the two groups in terms of the study's primary endpoint.

The findings make evacetrapib the third failure in a class of drugs known as cholesteryl ester transfer protein (CETP) inhibitors, which are designed to disrupt the natural process by which HDL cholesterol is converted into LDL cholesterol in the body. The first such drug, torcetrapib, was abandoned after a phase 3 clinical trial revealed it increased the risk of cardiovascular events and death. Development of a second CETP inhibitor, dalcetrapib, was stopped when a phase 2 clinical trial found the drug to be ineffective.

"There has been, and continues to be, a lot of confusion about what's going on with this class of drugs, since we don't yet have one that can be brought to the clinic to prevent heart attack and stroke in our patients," Nicholls said. "As we close out the trial, we're trying to understand how a drug that seems to do all the right things in terms of blood cholesterol levels doesn't then translate into reducing clinical events."

The results raised no safety concerns for evacetrapib and did not reveal any major side effects. Nicholls said the findings could offer evidence challenging conventional thinking regarding the benefits of HDL cholesterol in protecting against cardiovascular problems. Another possible explanation is that existing treatments, such as statins, are already so effective at improving cardiovascular outcomes that it has become more difficult to further improve outcomes in high-risk patients. Alternatively, the results could indicate that evacetrapib's active ingredient or the biological pathway it is designed to affect simply has no effect on cardiovascular risk.

All study participants either had an acute coronary syndrome such as an MI or unstable angina 30 days to one year before enrolling; had cerebrovascular atherosclerotic disease; had peripheral vascular disease; or had both diabetes and coronary artery disease.

"We tested the drug in high-risk patients because they are the patients with the greatest need for new drugs above and beyond what we already use in our clinics," Nicholls said. "Low risk patients could be another group of patients that could potentially benefit from this drug, but we didn't test that and to do so would require an extraordinarily large study that asks a different question from the one our study was designed to address."

The study was funded by Eli Lilly, a company for which Nicholls has served as a consultant. Nicholls has received research support or consulting fees from other pharmaceutical companies including AstraZeneca, Amgen, Novartis, Cerenis and others.

ACC2016特集

[News01]

脳画像が扁桃体の活性と心臓発作のリスクを関連付ける

[News02]

心疾患患者においてうつ病は予後不良と関連している

[News03]

心疾患疑いの症状は男女で差がない

[News04]

午睡はメタボリック症候群のリスクを上昇させる

[News05]

バイスタンダーによるCPRは生存率向上および神経学的転帰が良好であることと関連がある

[News06]

マンモグラムは心疾患の新たなスクリーニング法となり得る

[News07]

スタチンの広範な使用がスタディにより支持された

[News08]

中等度リスクの患者においてTAVRは手術に代わる妥当な代替療法である

[News09]

PCSK9阻害薬はスタチン不耐性患者のコレステロール値を低下させる

[News10]

心臓検査における性差

[News11]

Evacetrapibトライアルは早期中断された

[News12]

肥満手術の血糖値に対する効果は時間が経過しても持続する

[News13]

幹細胞治療は心不全の転帰を改善する

[News14]

院外心停止に対する抗不整脈薬投与が疑問視される

[News15]

ステント留置を遅らせても臨床的有益性は示さなかった

[News16]

心筋梗塞後のlosmapimod投与により改善は認めなかった

[News17]

クライオアブレーションは高周波アブレーションに匹敵する

[News18]

CABGは心不全患者の寿命を延長させる