

新規抗凝固薬は心房細動に対するアブレーション中の 大出血を軽減する(Abstract 17-LB-16165)

RE-CIRCUIT:非ビタミンK拮抗経口抗凝固薬の継続投与はアブレーション中のワルファリンの 代替薬として優れている

RE-CIRCUIT: Uninterrupted non-vitamin K antagonist oral anticoagulant is good alternative to warfarin during ablation

心房細動治療目的のアブレーション周術期における非ビタミンK拮抗経口抗凝固薬ダビガトラン の継続投与により、ワルファリンの継続投与に比べ大出血発現率が有意に低下した、と American College of Cardiology's 66th Annual Scientific Sessionで発表され、同時にNew England Journal of Medicine に掲載された。このRE-CIRCUITトライアルにおいて、一次エンド ポイントであるアブレーション中または施術後2か月以内の大出血は、ダビガトラン投与患者で 1.6%、ワルファリン投与患者では6.9%であり(相対リスク低下=77.2%)、5.3%減少した $(p=0.0009)_{\circ}$

Full Text

Uninterrupted treatment with dabigatran, a non-vitamin K antagonist oral anticoagulant (NOACs), before, during and after ablation to treat atrial fibrillation significantly reduced the incidence of major bleeding events compared with uninterrupted use of the more established anticoagulant warfarin, according to research presented at the American College of Cardiology's 66th Annual Scientific Session with simultaneous publication in the New England Journal of Medicine

The findings offer evidence that dabigatran is a safe and effective alternative to warfarin in the context of atrial fibrillation ablation. The trial showed a 5.3 percent reduction in its primary endpoint, major bleeding events during ablation or in the first two months after the procedure, with major bleeds occurring in 1.6 percent of study participants who received dabigatran and 6.9 percent of patients receiving warfarin

"I think it's great news for the field," said Hugh Calkins, MD, professor of cardiology at Johns Hopkins Medicine and the study's lead author. "There have been very few randomized studies focused on doing ablation procedures in fully anticoagulated patients, and the use of NOACs has been increasing dramatically. I expect these findings will encourage clinicians to quickly shift to doing this procedure with uninterrupted use of NOACs."

People with atrial fibrillation are five-times more likely to experience a stroke compared with the general population, and many patients take anticoagulants, or anti-clotting medications, to reduce this risk. However, taking anticoagulants during any kind of surgery can increase the risk of uncontrolled bleeding, raising concerns over how to appropriately weigh the risks and benefits of anticoagulants during ablation.

"Anticoagulation management at the time of atrial fibrillation ablation is critically important because stroke and bleeding are both major complications of the procedure." Calkins said

Most physicians advise patients to use warfarin continuously before, during and after ablation to reduce the risk of stroke. However, warfarin has some downsides; for example, it requires dietary changes and frequent monitoring of blood coagulation markers, and ablation procedures must be canceled at the last minute if a patient's blood coagulation levels are off-target, creating logistical challenges. In addition, following this guidance can require patients who normally use NOACs to switch temporarily to warfarin around the time of ablation and then switch back, which is cumbersome and sometimes impractical

The trial is the largest to compare the uninterrupted use of NOACs to uninterrupted use of warfarin in the context of ablation. The researchers prospectively enrolled 704 patients scheduled for atrial fibrillation ablation at 104 sites in 11 countries and randomly assigned patients to receive either dabigatran or warfarin. Patients started anticoagulant therapy four to eight weeks before ablation and used it continuously for up to eight weeks after the procedure

After excluding patients who did not go through with ablation or failed to meet the study protocol for other reasons, the researchers analyzed outcomes from 317 patients receiving dabigatran and 318 patients receiving warfarin. Dabigatran showed significant improvement over warfarin for the study's primary endpoint, major bleeding events, and equaled warfarin with regard to secondary safety and efficacy endpoints, which included minor bleeding events, stroke, a composite of major bleeding and stroke, and a composite of all serious adverse events. Only one stroke occurred during the study, and it occurred in a

Calkins noted that there is an approved reversal agent for dabigatran, which gives clinicians an additional tool to control major bleeding if it should occur during a procedure.

The findings confirm and enhance the results of previous, smaller studies suggesting NOACs present a lower risk of major bleeding events compared with warfarin, though this study contradicts the findings of one previous, smaller study comparing dabigatran to warfarin.

The Uninterrupted Dabigatran Etexilate in Comparison to Uninterrupted Warfarin in Pulmonary Vein Ablation (RE-CIRCUIT) trial was funded by Boehringer Ingelheim.

ACC2017特集

[News01]

エボロクマブは心血管イベントを有意に低下 させた関連付ける

[News02]

自己拡張型経カテーテル的大動脈弁置換術 (TAVR)は中等度リスクの患者に適している

NSAIDに加えてミソプロストールを服用する ことにより心血管系リスクが低下する

手首装着型心拍計は胸部装着型よりも正確さ に欠ける

ホルモン補充療法は死亡率が低いことと関連 がある

[News06] MI後の睡眠時無呼吸スクリーニングに最適な 時期が調査された

運動歴は乳がん後の心疾患予防に役立つ

[News08]

うつ病ばMIまたは狭心症後の死亡リスクを倍 増させる

[News09]

MI直後にすべての閉塞動脈を治療することに よる有益性

リバーロキサバンはアスピリンに比べVTE再 発を軽減する

[News11]

CTスキャンは大動脈弁置換術後の弁尖の動き の低下を可視化する

[News12]

BococizumabによるPCSK9阻害による結果は 様々である

[News13]

TAVRは微小出血および神経学的障害と関連が

スタチン服用患者においてエボロクマブは認 知機能に影響しない

左心耳閉鎖術は脳卒中リスクを低下させる

ペースメーカープログラムは意識消失発作を 減少させる

心房細動患者においてジゴキシンにより死亡 リスクは上昇する

[News18]

新規抗凝固薬は心房細動に対するアブレー ション中の大出血を軽減する

[News19]

[News20] ウェブベースのカウンセリングは血圧を低下 させる