

糖尿病における一次予防に対しアスピリンは必要 ない(Abstract 2315)

ASCEND:糖尿病患者においてアスピリンによる出血と有益性は拮抗しており、がん に対しては効果がない

PRAMI: Preventive PCI results in better outcomes than culprit artery PCI alone in STEMI

心血管疾患の既往のない糖尿病患者においてアスピリンは重篤な血管イベントを予防した が、ほぼ同等の大出血を引き起こし、がんには効果がなかった。これらはESC Congress 2018のレイトブレイキングで発表され、New England Journal of Medicine に掲載された。 ASCENDトライアルは、アスピリンは心筋梗塞、脳卒中、および微小脳出血などの血管イベ ントを減少させたが、主に消化管出血による大出血のリスクも上昇させることを示した。アスピ リン群において、いずれのがんも減少しなかった。糖尿病患者においてアスピリンを内服する ことによる有益性はなかった、と筆者らは結論付けている。

Full Text

Aspirin prevented serious vascular events in patients with diabetes who did not already have cardiovascular disease, but it caused almost as many major bleeds and there was no effect on cancers. These are the late breaking findings presented in a Hot Line Session at ESC Congress 2018 and published in the New England Journal of Medicine.

Patients with diabetes are, on average, at increased risk of cardiovascular disease. Aspirin reduces the risk of second cardiovascular events and is recommended for patients who have evidence of cardiovascular disease. However, its role in primary prevention is less clear because of the increase in bleeding. It has therefore been unclear whether aspirin should be recommended for cardiovascular prevention in diabetic patients without existing cardiovascular disease

Professor Jane Armitage, principal investigator, Nuffield Department of Population Health, University of Oxford, UK, said: "Even though we showed clearly that aspirin reduces the risk of vascular events, including myocardial infarction, strokes, and mini-strokes, it also increased the risk of major bleeds, mainly from the gastrointestinal tract, so overall there was no clear benefit. It had been suggested that low-dose aspirin might protect against cancer, but we saw no reduction in any cancers; we are continuing to follow the participants to see whether any benefits appear later."

The ASCEND trial (A Study of Cardiovascular Events iN Diabetes) examined whether aspirin reduced the risk of a first cardiovascular event in patients with diabetes. Between 2005 and 2011, 15,480 patients with diabetes but no history of cardiovascular disease were randomly assigned to aspirin (100 mg daily) or matching placebo.

Serious health outcomes that occurred to participants during follow-up were then recorded, including in particular:

•First serious vascular event (the primary efficacy endpoint), which included non-fatal myocardial infarctions, non-fatal strokes or transient ischemic attacks, or death from a cardiovascular cause (but excluding any intracranial hemorrhage; i.e. bleeding in the head or brain); and •First major bleed (the primary safety endpoint), which included bleeding in the head or brain, from the gut or from elsewhere in the body that was serious enough to result in hospitalization or be fatal.

During an average of 7.4 years of follow-up, a first serious vascular event occurred in 685 (8.5%) participants allocated aspirin and 743 (9.6%) allocated placebo, which meant 11 of every 1,000 participants avoided a serious vascular event during the trial as a result of allocation to aspirin. This represented a 12% (95% confidence interval [CI] 3–21%, p=0.01) proportional reduction in the risk of serious vascular events.

However, a first major bleed occurred in 314 (4.1%) participants allocated aspirin and 245 (3.2%) participants allocated placebo, which meant that 9 of every 1,000 participants suffered a first major bleed during the trial as a result of allocation to aspirin. This represented a 29% (95% CI 9–52%, p=0.003) proportional increase in the risk of major bleeding.

Consequently, overall, the numbers of participants who avoided a serious vascular event were counterbalanced by the numbers who suffered a major bleed. Even among the participants in the trial at highest vascular risk (over 2% per year), there were similar numbers of serious vascular events avoided as major bleeds caused. It was not possible to identify a group of patients in the trial in whom the benefits clearly outweighed the risks.

Previous studies had suggested that aspirin might produce a reduction in cancers in the gut (especially in the bowel), with the effects increasing over time. A large number of cancers were observed during 7.4 years of follow-up in the ASCEND trial. However, no effect of aspirin on incident gastrointestinal cancer was observed: 157 (2.0%) participants allocated aspirin and 158 (2.0%) participants allocated placebo (p=0.95) reported these cancers. Nor was there any apparent effect of aspirin on the overall risk of cancer (11.6% of those allocated aspirin versus 11.5% of those allocated placebo; p=0.81). Longer-term follow-up is ongoing to see if any effects on cancer emerge later.

Professor Armitage said: "We have shown conclusively in ASCEND that aspirin reduces the risk of vascular events in primary prevention, as it does in people who already have cardiovascular disease, but these benefits are counter-balanced by the number of major bleeds caused by aspirin. This is an important finding with implications for many millions of people who have diabetes but have not yet had cardiovascular events. Current clinical guidelines vary in their recommendations about the use of aspirin for primary prevention because of a previous lack of clear evidence. The results of ASCEND now provide much needed clarity."

"The trial participants were well-managed both for their diabetes and their cardiovascular risk," she added. "Most participants were taking proven safe treatments, such as statins and blood pressure reducing medicines which will be protecting them from heart attacks and strokes. For them, we have shown that there is no added benefit of taking aspirin."

SOURCES OF FUNDING: British Heart Foundation, Medical Research Council Population Health Research Unit (MRC-PHRU), Bayer AG, Solvay, Abbott and Mylan.

DISCLOSURES: The study was designed and run independently of the funders by the Clinical Trial Service Unit & Epidemiological Studies Unit (CTSU) in the Nuffield Department of Population Health (NDPH). The lead investigators abide by the CTSU guidelines not to accept payment or honoraria from drug companies.

Conference News

-次予防に対するアスピリンの価値に関する 様々なメッセーシ

糖尿病における一次予防に対しアスピリンは 必要ない

HDLコレステロール値が非常に高いことは

降圧薬により長期生存率が改善する

魚油は糖尿病患者における心血管イベントを 予防しない

持久系アスリートにおいて左房線維化増加が 認められた

左心系心内膜炎において経口抗菌薬への切り 替えは安全である

[News 08] 心房細動における併用療法に疑念が生じた

。 タファミジスは心アミロイドーシスの死亡率 を低下させる

心房細動患者において未知の脳障害が認め

小径冠動脈病変に対するバルーンとステント

[News 12] フェブキソスタットは高尿酸血症患者の有害 事象を減少させる

悪化する心不全においてトロンビン阻害薬は

認知機能検査で認知症リスクの高い高血圧 患者を同定できる

就寝時にヨガ音楽を聴くことは心臓によい

たこつぼ心筋症患者においてがんは予後不良 と関連がある

リスクを上昇させる