一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ジ(Abstract 2072)

ARRIVE：心血管イベントに対する一次予防目的でアスピリンを毎日服用することの価値は依然として不明である

ARRIVE: Value of an aspirin a day as primary prevention of cardiovascular events still unclear

初発心筋梗塞（MI）や脳卒中の中等度リスクを有する人々が、リスク軽減目的でアスピリンを毎日内服するべきか否かに関しては依然として不明である、とのARRIVE試験のレイトブレイキングの結果が ESC Congress 2018 で発表され、同時に*Lancet* に掲載された。アスピリンを内服したスタディ参加者は、特に50～59歳においてMIが少ない傾向にあったが、脳卒中に関しては効果がなかった。予想通り、消化管出血およびいくつかの他の小出血はアスピリン群において多かったが、致死的出血は2群間で差はなかった。

Full Text

It is still unclear whether people at moderate risk of a first myocardial infarction (MI) or stroke should take daily aspirin to lower their risk, according to late-breaking results from the ARRIVE study presented in a Hot Line Session at ESC Congress 2018 and with simultaneous publication in the *Lancet*.

Professor J. Michael Gaziano, principal investigator, of the Brigham and Women's Hospital, Boston, US, said: "Aspirin did not reduce the occurrence of major cardiovascular events in this study. However, there were fewer events than expected, suggesting that this was, in fact, a low-risk population. This may have been because some participants were taking medications to lower blood pressure and lipids, which protected them from disease."

The benefit of aspirin for preventing second events in patients with a previous MI or stroke is well established. Its use for preventing first events is controversial, with conflicting results in previous studies and recommendations for and against its use in international guidelines. Recommendations against its use cite the increased risk of major bleeding.

The ARRIVE study assessed the impact of daily aspirin on MIs, strokes, and bleeding in a population at moderate risk of a first cardiovascular event. Moderate risk was defined as a 20–30% risk of a cardiovascular event in ten years. The study enrolled individuals with no prior history of a vascular event, such as stroke or MI. Men were at least 55 years old and had two to four cardiovascular risk factors, while women were at least 60 years old with three or more risk factors. Risk factors included smoking, elevated lipids, and high blood pressure.

A total of 12,546 participants were enrolled from primary care settings in the UK, Poland, Germany, Italy, Ireland, Spain, and the US. Participants were randomly allocated to receive a 100 mg enteric-coated aspirin tablet daily or placebo. The median follow-up was 60 months. The primary endpoint was time to first occurrence of a composite of cardiovascular death, MI, unstable angina, stroke, and transient ischemic attack.

The average age of participants was 63.9 years and 29.7% were female. In the intention-to-treat analysis, which examines events according to the allocated treatment, the primary endpoint occurred in 269 (4.29%) individuals in the aspirin group versus 281 (4.48%) in the placebo group (hazard ratio [HR] 0.96, 95% confidence interval [CI] 0.81–1.13, p=0.60). In the per-protocol analysis, which assesses events only in a compliant subset of the study population, the primary endpoint occurred in 129 (3.40%) participants of the aspirin group versus 164 (4.19%) in the placebo group (HR 0.81, 95% CI 0.64–1.02, p=0.0756).

In the per-protocol analysis, aspirin reduced the risk of total and nonfatal myocardial infarction (HR 0.53, 95% CI 0.36–0.79, p=0.0014; HR 0.55, 95% CI 0.36–0.84, p=0.0056, respectively). The relative risk reduction of myocardial infarction in the aspirin group was 82.1%, and 54.3% in the 50–59 and 59–69 age groups, respectively.

All safety analyses were conducted according to intention-to-treat. Gastrointestinal bleedings, which were mostly mild, occurred in 61 (0.97%) individuals in the aspirin group versus 29 (0.46%) in the placebo group (HR 2.11, 95% CI 1.36–3.28, p=0.0007). The overall incidence of adverse events was similar between treatment groups. Drug-related adverse events were more frequent in the aspirin (16.75%) compared to placebo (13.54%) group (p<0.0001), the most common being indigestion, nosebleeds, gastro-esophageal reflux disease, and upper abdominal pain.

Professor Gaziano said: "Participants who took aspirin tended to have fewer heart attacks, particularly those aged 50–59 years, but there was no effect on stroke. As expected, rates of gastrointestinal bleeding and some other minor bleedings were higher in the aspirin group, but there was no difference in fatal bleeding events between groups."

He concluded: "The decision on whether to use aspirin for protection against cardiovascular disease should be made in consultation with a doctor, considering all the potential risks and benefits."

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