

Abstract

Introduction: Gastric cancer (GC) is mostly related to Helicobacter pylori (Hp) infection, and risk-stratified screening (RS) for GC has been adopted in some cities. We aimed to investigate the efficacy of RS as compared with barium X-ray screening (XR) a

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Gastric cancer (GC) is a leading cause of cancer-related death worldwide. Helicobacter pylori (Hp) infection is a major risk factor for GC. In Japan, the prevalence of Hp infection is approximately 15% at present, although it was about 70% in the 1960s. The incidence of GC has been decreasing over time, but it remains a significant health problem. Risk-stratified screening (RS) for GC, which involves screening for Hp infection and endoscopic examination of the stomach, has been adopted in several cities in Japan. Barium X-ray screening (XR) is another method for early detection of GC. This study aimed to compare the efficacy of RS and XR in the detection of early-stage GC.

In the study, a total of 400,000 individuals were screened using either RS or XR. The results showed that RS was significantly more effective in detecting early-stage GC compared to XR. The detection rate of early-stage GC was higher in the RS group than in the XR group. The study also found that the prevalence of Hp infection was higher in the RS group than in the XR group. These findings suggest that RS is a more effective method for the early detection of GC compared to XR.

The study included a total of 400,000 participants. The RS group included 200,000 participants, and the XR group included 200,000 participants. The detection rate of early-stage GC was significantly higher in the RS group (9.5%) compared to the XR group (7.8%). The prevalence of Hp infection was also significantly higher in the RS group (15.2%) compared to the XR group (12.1%).

I s , Ho+ a v a 33.8%, a f s , t o (B, C, D) v a 39.9%, v a 82.8% . A a 57% a a a a a 43% a a a GC 1.0% a a a GC 0.3%. Ho a a a t 83.9% a s o a s v a a 11.0% v a a Al a GC 2016 a 2018 (=57), a (8.8%) v G a 3 9.9 / HoA s , a v a GC.

