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Summary

FAVORABLE EFFECT OF HIGH-DENSITY LIPOPROTEIN CHOLESTEROL ON GASTRIC CANCER MORTALITY BY SEX AND TREATMENT MODALITY

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Higher HDL cholesterol levels were associated with reduced mortality in gastric cancer patients across two large Korean cohorts, with effects observed in both sexes and across treatment modalities.

KEY POINTS

- In 22,468 gastric cancer patients from national health insurance data, HDL-C levels showed a dose-dependent inverse association with mortality, with adjusted hazard ratios ranging from 0.90 for HDL-C 40-49 mg/dL to 0.78 for HDL-C ≥70 mg/dL compared to HDL-C <40 mg/dL.
- A validation cohort of 3,379 university hospital patients demonstrated consistent findings, with adjusted hazard ratios of 0.81, 0.64, and 0.46 for HDL-C levels of 40-49, 50-59, and ≥60 mg/dL respectively compared to <40 mg/dL.
- The protective effect of higher HDL-C was consistent across both sexes and was observed in patients treated with both gastrectomy and endoscopic resection, with more pronounced effects in the endoscopic resection group.
- This study provides evidence for considering HDL-C as a prognostic factor in gastric cancer patients who have undergone curative resection.

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