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Proton pump inhibitor: The dual role in gastric cancer

Joo MK *et al.* PPI and gastric cancer

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Abstract

Proton pump inhibitors (PPIs) are one of the most frequently used medications for upper gastrointestinal diseases. However, a number of physicians have raised concern about the serious side effects of long-term use of PPIs, including the development of gastric cancer. Recent epidemiological studies have reported a significant association between long-term PPI intake and the risk of gastric cancer, even after successful *Helicobacter pylori* eradication. However, the effects of PPIs on the development of pre-malignant conditions such as atrophic gastritis or intestinal metaplasia are not fully known, suggesting the need for comprehensive and confirmative studies are needed in the future. Meanwhile, several experimental studies have demonstrated the effects of PPIs in reducing chemoresistance in gastric cancer cells by modulating the acidic microenvironment, cancer stemness and signal transducer and activator of transcription 3 (STAT3) signaling pathway. The inhibitory effects of PPIs on STAT3 activity may overcome drug resistance and enhance the efficacy of

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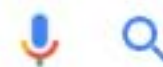
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Side effects with respect to function and morphology of the gastric mucosa are common. ...

Keywords: proton pump inhibitors, gastric neoplasia The conclusion that PPI treatment increases the risk for gastric cancer development is Sanduleanu S, Jonkers D, De Bruine A. et al Double gastric infection with Helicobacter ...