

Name of Journal: *World Journal of Clinical Cases*

Manuscript NO: 63277

Manuscript Type: MINIREVIEWS

Anti-tumor effect of statin on pancreatic adenocarcinoma: From concept to precision medicine (review)

Anti-tumor effect of statin on pancreatic cancer

Abstract

Statin is a cholesterol-lowering agent through the inhibition of HMG-CoA reductase and subsequently reduction of cholesterol precursor, firstly commercial use in 1987. A concept of cholesterol restriction would lead to cancer cell dysfunction was proposed in 1992. Interruption of different signaling pathways had been proved in preclinical experiments to elucidate the anti-tumor mechanism of statin for pancreatic adenocarcinoma. Observational studies showed clinical use of statin is beneficial for patients with pancreatic adenocarcinoma, including chemoprevention effect, not

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It has been suggested that **statins** exert potential **anti-tumor effects**. The relationship between **statin** use and outcomes in **pancreatic cancer** is controversial. We hypothesized that **statin** use at baseline would **impact** survival among patients with early-stage **pancreatic cancer** and that the **effect** might vary by individual **statin** agent.

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Author information: (1)Department of Internal **Medicine**, Liver Research Institute, Seoul National University College of **Medicine**, Seoul, Korea. **BACKGROUND:** Although several studies have suggested that aspirin and **statins** may help prevent **pancreatic** ductal **adenocarcinoma** (PDAC), this **concept** has been controversial.

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Author: Jin Ho Choi, Sang Hyub Lee, Gunn Huh, Ju...

Publish Year: 2019

The association between use of statin or aspirin and ...

<https://pubmed.ncbi.nlm.nih.gov/31637875>

Background: Although several studies have suggested that aspirin and **statins** may help prevent **pancreatic** ductal **adenocarcinoma** (PDAC), this **concept** has been controversial. This study aimed to evaluate the association between use **of statin** or aspirin and PDAC in a nationwide large cohort.

Methods: In this nested case-control study, we used data from a 12-year nationwide longitudinal ...

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