

DOSE-RESPONSE RELATIONSHIP OF CADMIUM AND PANCREATIC CANCER RISK: META-ANALYSIS

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Poster

Pancreas

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A meta-analysis finds cadmium exposure significantly associated with increased pancreatic cancer risk, with a pooled relative risk of 1.42 and a dose-response relationship.

KEY POINTS

- Cadmium exposure was associated with a 42% increased risk of pancreatic cancer (pooled RR 1.42, 95% CI 1.16–1.73) in this meta-analysis following PRISMA guidelines.
- Subgroup analysis showed sex-specific variation: men demonstrated significant increased risk while women did not show statistically significant risk.
- Dose-response analysis revealed higher cadmium biomarker levels correlated with greater pancreatic cancer risk ($\beta = 0.610$, $p = 0.035$).
- The authors describe cadmium exposure as a modifiable risk factor for pancreatic cancer meriting further investigation.

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