DO ADIPOKINES PLAY A ROLE IN CHRONIC PANCREATITIS? A SYSTEMATIC REVIEW AND META-ANALYSIS

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A systematic review and meta-analysis of 14 studies found that chronic pancreatitis patients have significantly decreased leptin and increased resistin levels compared to controls, while adiponectin levels did not differ significantly between chronic pancreatitis patients and controls or pancreatic cancer patients.

KEY POINTS

- Leptin levels were significantly decreased in chronic pancreatitis patients compared to controls with a mean difference of -1.299 (95% CI -2.493 to 0.105)
- Resistin levels were significantly increased in chronic pancreatitis patients compared to controls with a mean difference of 10.129 (95% CI 6.735 to 13.524)
- Adiponectin levels were significantly elevated in pancreatic cancer patients compared to controls with a mean difference of 11.240 (95% CI 5.872 to 16.60)
- No significant differences were found in adiponectin levels between chronic pancreatitis patients and controls or between chronic pancreatitis and pancreatic cancer patients
- The analysis included 14 observational studies published through November 2022, with 9 contributing to quantitative synthesis

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