**Association of pyogenic liver abscess and pancreatitis**

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**Abstract:**

**Background:** Pancreatitis and PLA are global health issues associated with severe morbidity and mortality. Both conditions have similar risk factors including diabetes mellitus and biliary stones/obstruction. The aim of this study was to investigate if there is an association between pancreatitis and PLA, as it is not well delineated and there is limited research available.

**Method:** This is a systematic review. Articles were identified using electronic searches of EMBASE, Medline, Cochrane and Scopus databases. Inclusion criteria were observational studies reporting an association between PLA and pancreatitis (chronic and/or acute). Case reports, literature reviews, letters/correspondence and abstracts were excluded.

**Results:** Of the 184 articles sourced, only 2 cohort studies were included in the study. PLA is associated with a higher overall incidence of acute pancreatitis compared to the control group. Furthermore, patients with PLA and comorbidities such as biliary stones, alcoholism, hepatitis C and hypertriglyceridemia had an increased risk of acute pancreatitis than the PLA group without comorbidities. Patients with chronic pancreatitis had a higher incidence of PLA and this risk was increased with the presence of five or more comorbidities.

**Conclusion:** Chronic pancreatitis is associated with an increased risk of PLA. PLA is associated with an increased incidence of acute pancreatitis. Co-morbidities worsen the risk in both situations. Given the limited number of studies available, more research is required to substantiate this finding.

**Biography of presenting author** (should not exceed 100 words)

Dr. Carlaw has a Doctor of Medicine (MD) degree from University of Sydney in 2019 and a Bachelor of Biomedical Sciences degree (BBiomedSc) from Monash University in 2015. She is currently studying for a Master of Surgery at the University of Sydney. She is interested in General Surgery and is a General Surgery Senior Resident at Westmead Hospital. She has published research internationally in a variety of surgical fields and has presented at national conferences.

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