

Abstract

Solid pseudopapillary neoplasms (SPN) are rare low-grade pancreatic tumors with low potential for local recurrence and metastasis; however, despite its rarity, SPN recurrence has been described in several case reports. Herein we present a case series of metastatic SPN and a historical literature review of recurrence and metastasis.

A retrospective review of all patients who were diagnosed with SPN and underwent a second operation for recurrence was performed. For the scoping review, PRISMA guidelines were followed to review published cases of SPN between 1970 and 2022. Seven keywords commonly used to describe SPN were used to search PubMed, Ovid, and Web of Science. Duplicate articles and cases were filtered out, and cases that met inclusion criteria based on the number of demographic and clinical features documented were included for analysis.

A total of 33 patients with SPN were included. Among these, 4 had recurrence or metastasis (mSPN). Most of these patients were men, with an average age of 54. Local recurrence occurred in 2 patients and distant liver metastasis in the other two. Median time to recurrence was 72 months (range 48-120) among our series. All mSPN patients were alive, with no major complications described at the time of this report. Interestingly, one patient has undergone 6 tumor resections over the last 10 years. The characteristics of our patients are in agreement with previously published data on mSPN, including a higher incidence in older men and a similar time to recurrence (60 months). However, the incidence in our center was slightly higher than previous reports (12.1% vs. 9.5%).

SPNs recur in 12% of patients after surgical resection. Surgical resection offers favorable long-term outcomes for patients with metastatic SPN and is the treatment of choice.