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Running title: Dietrich CF *et al* Serous pancreatic neoplasia

Dietrich CF, Dong Yi, Christian Jenssen, Ciaravino Valentina, Michael Hocke, Wang WP, Eike Burmester, Kathleen Moeller, Nathan S S Atkinson, Paola Capelli, Mirko D'Onofrio

SCIENTIFIC RESEARCH PROGRESS

1 What did this study explore?

Serous pancreatic cystic neoplasms (SPN) are infrequent neoplasms of the pancreas, but their benign nature means they are an important differential to consider when evaluating lesions within the pancreas. The aim of this retrospective study was to describe the imaging features of serous neoplasms of the pancreas using US, EUS, CT and MRI. The frequency of atypical imaging aspects by different imaging modalities will be estimated and the most common atypical features will be reported, particularly of US which is often the initial imaging modality employed.

2 How did the authors perform all experiments?

An international multicenter retrospective data collection of 287 histologically confirmed cases of SPNs was performed. The cohort was not uniform according to the resection criteria. No other exclusion criteria have been defined.

3 How did the authors process all experimental data?

Descriptive statistics were used to analyze and summarize data. The χ^2 test and Fisher's exact test were used to compare categorical parameters between the groups. Continuous parameters were presented as the mean \pm SD, and Student's t test was used.

4 How did the authors deal with the pre-study hypothesis?

We hypothesized that the frequency of atypical imaging aspects by different imaging modalities will be estimated and the most common atypical features of SPN will be reported. We compared our results to the current EFSUMB CEUS guideline in order to describe the US and CEUS imaging features of serous neoplasms of the pancreas.

5 What are the novel findings of this study?

Serous pancreatic cystic neoplasms (SPN) are infrequent neoplasms of the pancreas. Ultrasound features including single cystic or mixed cystic and solid hypoechoic lesions, hypervascular and hyperenhancing profiles as described can aid differentiation from other neoplastic lesions under most circumstances.



Prof. Dr. med. Christoph F. Dietrich

Medizinische Klinik 2, Caritas Krankenhaus Bad Mergentheim

Uhlandstr. 7, D-97980 Bad Mergentheim, Germany

Tel: 49 (0)7931 - 58 - 2201 / 2200

Fax: 49 (0)7931 - 58 - 2290

Christoph.dietrich@ckbm.de