Ductal adenocarcinoma of the pancreas (PDAC) is one of the leading causes of cancer related death in the western world and Japan. PDAC is the most common malignancy of the pancreas accounting for about 90% of malignant pancreatic neoplasia. In most cases (80–95%) ductal adenocarcinoma are diagnosed at an advanced stage, with locally advanced or metastatic disease requiring palliative treatment. The 5 year survival rate of PDAC (outcome parameter) is less than 5% which has not significantly changed over the last 30 years.

In large cohorts of pancreatic solid lesions, lesions other than ductal adenocarcinoma have been rarely reported in the past. The prevalence of metastases of other primary cancers into the pancreas and the prevalence of neuroendocrine tumors is reported to be approximately 3%, respectively.

Important differential diagnoses of PDAC include
1. Neuroendocrine tumours (benign, malignant, genetically determined),
2. Metastases of renal cell carcinoma (lung, mamma, others),
3. Microcystic (and therefore solid) serous pancreatic adenoma,
4. Mesenchymal neoplasia,
5. Focal pancreatitis,
6. Others.

According to current guidelines and oncological rules all solid pancreatic lesions without contraindications to surgery (metastatic disease, age, comorbidity, locally nonresectable, amongst others) are presumed to be ductal adenocarcinoma if not otherwise proven and should be radically operated without histological or cytological examination prior to surgery. In addition, most guidelines so far have not recommended excluding other pathology before surgery since they are rare under normal circumstances. Not knowing the etiology before radical surgery might result in an unacceptable large proportion of patients exposed to unjustified surgery related mortality and morbidity. Confirmation of the diagnosis can be difficult and usually requires invasive procedures.

Highly sophisticated ultrasound techniques are the methods of choice to detect very small SPL.

The work up on how to differentiate between such lesions include showing that ductal adenocarcinoma are mostly hypovascular (hyperenhancing using contrast enhanced ultrasound [CEUS]) and stiffer than the surrounding pancreatic parenchyma, whereas neuroendocrine tumours (NET, benign, malignant), serous microcystic adenoma, and metastases of RCC are often hypervascular (and, therefore, hyperenhancing) and isoelastic or softer than the surrounding pancreatic parenchyma (if small).

The planned EFSUMB multicentric study focuses on the use of current available ultrasound technology in the characterisation of the histologically proven very small pancreatic lesions ≤ 15 mm in order to optimize the clinical management of such lesions.

We invite you to submit your cases into the EFSUMB Scientific Corner (or excel sheet directly sent to you via Christoph.Dietrich@ckbm.de). Please also prepare and submit images and videos. Would you be interested to submit your histological (cytological) proven lesions ≤ 15 mm (except for MEN) to the Scientific Corner [www.efsumb.org]?