Ultrasound-Guided Fine-Needle Aspiration Cytology of Solid Pseudopapillary Tumor of The Pancreas: A Tertiary Care Centre Experience

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ABSTRACT

Context Solid pseudopapillary tumours of pancreas is unusual neoplasm with uncertain malignant potential. It is seen predominantly in adolescent girls and young women. Objective We present the clinical, ultrasound-guided fine needle aspiration (US-FNA) cytologic features, differential diagnosis and immunohistochemical findings in solid pseudopapillary tumours. Patients A retrospective 4-year (2007–2010) fine needle aspiration samples of 8 solid pseudopapillary tumours of pancreas were reviewed. Main outcome measures the entire cases were cured with exploratory laparotomy. Results This study includes 8 cases (1 male, 7 females) of solid pseudopapillary tumours of pancreas. All these cases showed characteristic cytomorphological features displaying hypercellular smears with presence of several papillary fragments lined by multilayered anisomorphic atypical cells having fine chromatin with delicate nuclear groove, myxoid stroma and foamy macrophages in a haemorrhagic background. Conclusions Correct preoperative cytological diagnosis of solid pseudopapillary tumours of pancreas may be accurately possible by US-FNA technique and also aids in treatment of the surgically curable cancer in the patients.