小膵腫瘤性病変の鑑別診断能の向上に関する内視鏡的ならびに分子生物学的研究

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Differentiation of small pancreatic mass lesions by the combination of endosonography and genetic analysis of purepancreatic juice

Research Project

Project/Area Number

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Research Category

Grant-in-Aid for Scientific Research (C)

Allocation Type

Single-year Grants

Section

一般

Research Field

Gastroenterology

Research Institution

Cancer Research Institute, Kanazawa University

Principal Investigator

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Keywords

endoscopic ultrasonography / K-ras analysis / pure pancreatic juice / pancreatic cancer / inflammatory pancreatic mass / early diagnosis / PCR

Research Abstract

Background & Aims : The early diagnosis of pancreatic cancer is still difficult. The purpose of this prospective study was to assess the utility of a combination of endosonography and genetic analysis of pure pancreatic juice for the early recognition of pancreatic cancer. Methods : One hundred and seventy-six patients with syspected pancreatic injury were enrolled and underwent endosonography. Pure pancreatic juice was collected endoscopically in patients with solid pancreatic masses. K-ras point mutations at codon 12 in the juice were assayd by polymerase chain reaction-restriction fragment length polymorphism. Results : Thirty-six patients (20%) were found to have solid pancreatic masses. They consisted of 19 patients with pancreatic cancer (7 patients, <less than or equal> 2cm) and 17 patients with an inflammatory pancreatic mass (13 patients, <less than or equal> 2cm). Although endoscopic retrograde cholangiopancreatography showed high accuracy for cancer diagnosis, ultrasonography and computed tomography were less sensitive, particularly in small pancreatic masses, and 65% of them were not disclosed until endosonography. In contrast, endosonography showed high sensitivity (100%) and specificity (92%) even in small masses. Together with K-ras analysis, assayd safely using small samples, the endosonographic diagnosis became more definitive. Conclusions : Both endosonography and K-ras analysis was safely performed. The combination of endosonography and K-ras analysis of pure pancreatic juice may be useful for the early diagnosis of pancre

Research Products (14 results)

All Other

All Publications (14 results)

[Publications] Watanabe H, et al: "Detection of K-ras point mutations at codon 12 in pure pancreatic juice for the diagnosis of pancreatic cancer by hybridization protection assay." Jap J Cancer Res. 87. 466-474 (1996)

[Publications] Sawabu N, et al: "Clinical evaluation of cases with small pancreatic cancer and approaches to its early diagnosis." Recent advances in gastroenterological carcinogenesis I. 605-609 (1996)

[Publications] 澤武 紀雄、ほか: "小膵癌" Molecular Medicine. 33. 476-479 (1996)

[Publications] Hu YH, et al: "Frequent loss of p16 expression and its correlation with clinicopathological parameters in pancreatic carcinoma." Clin Cancer Res. 3. 1473-1477 (1997)

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[Publications] Sawabu N,Watanabe H,Motoo Y,Okai T: "For early diagnosis of pancreatic cancer 4) Tumor marker (in Japanese)" Approach for pancreatic cancer. Kanehara, Tokyo. (1997)

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