

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

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# 1997 Fiscal Year Final Research Report Summary

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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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08670572

### Research Category

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Grant-in-Aid for Scientific Research (C)

### Allocation Type

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Single-year Grants

### Section

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一般

### Research Field

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Gastroenterology

### Research Institution

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Cancer Research Institute, Kanazawa University

### Principal Investigator

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### Project Period (FY)

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1996 – 1997

### Keywords

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

### Research Abstract

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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 suspected 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 assayed 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, assayed 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) ▼
- [Publications] 岡井 高: "肝・胆・膵領域癌における診断と治療の進歩" 日本醫事新報. 3847. 17-22 (1998) ▼
- [Publications] 岡井 高、ほか: "小膵癌(結節型)診断のアルゴリズム(III)、画像検査、膵液K-ras遺伝子" 19. 55-60 (1998) ▼
- [Publications] 澤武 紀雄、ほか: "膵癌へのアプローチ膵癌の診断、早期診断と進展度診断を目指して、4)腫瘍マーカー" 金原出版, 178 (1997) ▼
- [Publications] Watanabe H,Miyagi C,Yamaguchi Y,Satomura Y,Ohta H,Motoo Y,Okai T,Yoshimura T,Tsuji Y,Sawabu N: "Detection of K-ras point mutations at codon 12 in pancreatic juice for the diagnosis of pancreatic cancer by hybridization protection assay (HPA) : a simple method for the determination of types of point mutations." Jap J Cancer Res. 87. 466-474 (1996) ▼
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- [Publications] Okai T: "Progress in the diagnosis and treatment of hepatic, biliary, and pancreatic cancer. (in Japanese)" Nippon Iji Shimpou. 3847. 17-22 (1998) ▼
- [Publications] Okai T,Yamaguchi Y,Watanabe H,Sawabu N: "An algorithm for the evaluation of the patients with suspected pancreatic cancer by endoscopic ultrasonography with K-ras analysis of pure pancreatic juice. (in Japanese)" Tan to Sui. 19. 55-60 (1998) ▼
- [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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