

# 純腭液分析による腭疾患診断法の開発とその臨床的意義に関する研究

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# 1988 Fiscal Year Final Research Report Summary

## ANALYSIS OF PURE PANCREATIC JUICE IN PANCREATIC DISEASES AND ITS CLINICAL SIGNIFICANCE

Research Project

### Project/Area Number

61480188

### Research Category

Grant-in-Aid for General Scientific Research (B)

### Allocation Type

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### Research Field

Gastroenterology

### Research Institution

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PANCREATIC JUICE / CHRONIC PANCREATITIS / PANCREATIC CANCER / LACTOFERRIN / PROTEIN PLUG / CA 19-9 / ST-439 / SLX(Sialyl SSEA-1)

### Research Abstract

We determined lactoferrin (LF) levels by EIA, as well as conventional parameters in endoscopically aspirated pancreatic juice (PJ), and evaluated the protein plug (PP) in PJ. Furthermore, cancer-associated carbohydrate antigens in PJ were measured, and immunohistochemical staining of pancreatic specimens was performed using antibodies. The results are summarized as follows.

Abnormally high levels of LF in PJ were observed in 46% of the patients with chronic pancreatitis (CP), with the prevalence being significantly higher in calcified CP (82%) than in non-calcified CP (37%). Moreover, LF levels in PJ rose with the severity of CP. As PP in PJ was found in 55% of the patients with CP, but not in those with other diseases except for pancreatic cancer (8%), PP was considered to be relatively specific for CP. PP in PJ was observed more frequently in calcified CP (82%) than in non-calcified CP (55%). However, significant differences of abnormalities in pancreatogram and pancreatic function

were not observed between presence and absence of PP. Mean value and prevalence of abnormal LF in PJ in CP were higher in the PP positive group than in the PP-negative group. Concentration of CA 19-9 in PJ was significantly higher not only in pancreatic cancer (PC) but also in CP, and its prevalence was 92% in PC and 85% in CP. CA 19-9 in PJ in pj was considered to be a sensitive marker for non-specific pancreatic injury, but not for tumors. Concentrations of ST-439 and SLX in PJ were significantly increased only in PC, and their prevalences were 57% and 40%, respectively. They have high tumor-specificity, but their incidence was relatively low. CA 19-9 and CA-50, which are the type 1 chain carbohydrate antigens, were strongly expressed in pancreatic cancer, but were low in cancerspecificity. However, type 2 chain carbohydrate antigens such as CSLEX-1 and SLX showed highest tumor-specificity among the antigens, whereas their incidences were lower than other antigens. On the other hand, ST-439 and DU-PAN-2 exhibited high positivity and specificity. CA 19-9 was strongly and widely distributed mainly in the proliferative small pancreatic duct of CP. This may reflect the increased levels of CA 19-9 in PJ of patients with CP.▲ Less

## Research Products (13 results)

	All	Other
	All Publications (13 results)	
[Publications] 竹森康弘 他: 胆と膵. 7. 63-68 (1986)		▼
[Publications] N.Sawabu,et al: Int.J.Cancer. 37. 693-696 (1986)		▼
[Publications] N.Sawabu,et al: Gastroenterol.Jpn. 21. 491-498 (1986)		▼
[Publications] 澤武紀雄 他: 肝胆膵. 15. 347-357 (1987)		▼
[Publications] 澤武紀雄 他: 癌と化学療法. 15. 1091-1101 (1988)		▼
[Publications] N.Sawabu,et al: Int.J.Pancreatol.		▼
[Publications] 澤武紀雄 他: "臨床検査Mook.膵疾患の検査,Tumor marker" 金原出版, 16 (1987)		▼
[Publications] 澤武紀雄 他: "Annual Review消化器消化器疾患の腫瘍マーカー" 中外医学社, 7 (1988)		▼
[Publications] YASUHIRO TAKEMORI,ET AL: "EVALUATION OF CA 19-9 OF PURE PANCREATIC JUICE IN PATIENTS WITH PANCREATIC DISEASES" THE BILIARY TRACT AND PANCREAS. 7. 63-68 (1986)		▼
[Publications] NORIO SAWABU,ET AL: "MEASUREMENT OF A PANCREATIC CANCER-ASSOCIATED ANTIGEN (DU-PAN-2) DETECTED BY A MONOCLONAL ANTIBODY IN SERA OF PATIENTS WITH DIGESTIVE CANCERS" INT. J. CANCER. 37. 693-696 (1986)		▼
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[Publications] NORIO SAWABU,ET AL: "DIAGNOSTIC AVAILABILITY OF CANCER-ASSOCIATED CARBOHYDRATE ANTIGENS" JPN. J. CANCER CHEMOTHER. 15. 1091-1101 (1988)		▼
[Publications] NORIO SAWABU, ET AL: "DIAGNOSTIC SIGNIFICANCE OF LACTOFERRIN ASSAY IN PURE PANCREATIC JUICE FROM PATIENTS WITH PANCREATIC DISEASES"		▼

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