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Original article

Treatment outcome for systemic chemotherapy for recurrent pancreatic cancer after postoperative adjuvant chemotherapy

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ABSTRACT

Objectives: A global consensus on how to treat recurrent pancreatic cancer after adjuvant chemotherapy
with gemcitabine (ADJ-GEM) does not exist.Methods: We retrospectively reviewed the clinical data of 41 patients with recurrences who were
subsequently treated with chemotherapy.
Results: The patients were divided into two groups according to the time until recurrence after the
completion of ADJ-GEM (ADJ-Rec): patients with an ADJ-Rec < 6 months (n = 25) and those with an ADJ-
Rec ≥ 6 months (n = 16). The disease control rate, the progression-free survival after treatment for
recurrence and the overall survival after recurrence for these two groups were 68 and 94% (P = 0.066),
5.5 and 8.2 months (P = 0.186), and 13.7 and 19.8 months (P = 0.009), respectively. Furthermore, we
divided the patients with an ADJ-Rec < 6 months into two groups: patients treated with gemcitabine
(n = 6) and those treated with alternative regimens including fluoropyrimidine-containing regimens
(n = 19) for recurrent disease. Patients treated with the alternative regimens had a better outcome than
those treated with gemcitabine.
Conclusions: Fluoropyrimidine-containing regimens may be a reasonable strategy for recurrent disease
after ADJ-GEM and an ADJ-Rec < 6 months.</td>

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1. Introduction

Pancreatic cancer patients have an extremely poor prognosis. Although surgical resection is the only curative treatment, only 15%–20% of patients are candidates for resection. Even if a curative resection is performed, the 5-year-survival rate is only 10%–25%, and the median survival period is 11–20 months [1,2].

Various adjuvant chemotherapy or chemoradiotherapy regimens after surgical resection have been evaluated [2–6]. Recently, The Charite' Onkologie (CONKO)-001 trial was designed to determine the benefits of gemcitabine for patients with resected pancreatic cancer. Adjuvant chemotherapy with gemcitabine (ADJ-GEM) significantly improved the disease-free survival period, compared with surgery alone, in patients with resected pancreatic cancer. Although no significant difference in overall survival was seen at the time of publication, analysis after a longer follow-up period demonstrated a survival advantage for gemcitabine over observation-only (median progression-free survival, 22.8 months for ADJ-GEM vs. 20.2 months for observation-only; P = 0.005). At approximately the same time as the CONKO-001 trial, the Japanese Study Group of Adjuvant Therapy for Pancreatic Cancer (JSAP) conducted a randomized clinical trial evaluating adjuvant gemcitabine. Although no significant difference in overall survival was seen, the patients in the gemcitabine arm demonstrated a significantly longer disease-free survival period than the patients in the observation-only arm. These results were similar to those of the CONKO-001 trial and supported the concept that adjuvant chemotherapy using gemcitabine was effective in an Asian

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population [2,5]. Therefore, adjuvant therapy using gemcitabine for resected pancreatic cancer is now firmly established as a therapy that offers a modest but real improvement in overall survival [5,7].

In approximately 50% of patients, recurrent disease was reportedly seen within a year, even after receiving ADJ-GEM [5], and no global consensus exists regarding treatment strategies for recurrent disease after ADJ-GEM. If the length of time from the completion of adjuvant therapy until the detection of recurrence is less than 6 months, the NCCN guidelines recommend alternative chemotherapy using a fluoropyrimidine-based chemotherapy regimen. When this period is 6 months or greater, they recommend an alternative regimen or the same regimen as the previous therapy [8]. However, these recommendations have not been substantiated by actual clinical data. In Japan, the oral fluoropyrimidine derivative S-1 is often used as an alternative regimen for gemcitabine-refractory cases. S-1 showed a non-inferiority to gemcitabine in terms of overall survival in a phase III trial and is considered an alternative to gemcitabine for chemonaïve patients with advanced pancreatic cancer [9]. Additionally, in gemcitabine-refractory metastatic cases, a recent phase II study of S-1 yielded results that demonstrated preferable activity, including a response rate of 9.5%–15% and a median overall survival time of 4.5–6.3 months [10,11]. Therefore, S-1 is widely used for the treatment of advanced pancreatic cancer in first-line and second-line settings in Japan.

We studied the current status of treatments for recurrent pancreatic cancer after curative resection followed by ADJ-GEM. The objective of this study was to examine the adequacy of the

Table 1

Patient characteristics at resection (n = 41).

		n (%)			
	Variables	All patients $n = 41$	ADJ-Rec < 6 months $n = 25$	ADJ-Rec \geq 6 months $n = 16$	P value
Age (years)	Median (range)	65 (38–78)	64 (38–78)	65 (50–77)	0.96
Gender	Male	27 (66)	16 (64)	11 (69)	1.00
	Female	14 (34)	9 (36)	5 (31)	
PS ^a at recurrence	0	30 (73)	20 (80)	10 (63)	0.34
	1	5 (12)	3 (12)	2 (12)	
	Unknown	6 (15)	2 (8)	4 (25)	
Primary site	Head	26 (63)	17 (68)	9 (56)	0.51
	Body or -tail	15 (37)	8 (32)	7 (44)	
Type of Resection	PD ^b	26 (64)	17 (68)	9 (56)	0.66
	DP ^c	12 (29)	6 (24)	6 (38)	
	TP ^d	3 (7)	2 (8)	1 (6)	
Resection status	RO	36 (88)	22 (88)	14 (88)	1.00
	R1	5 (12)	3 (12)	2 (12)	
Histology	Adenocarcinoma	39 (95)	23 (92)	16 (100)	0.51
	Adenosquamous carcinoma	2 (5)	2 (8)	0 (0)	
Stage ^e at resection	IIA	5 (12)	0(0)	5 (31)	0.006
	IIB	36 (88)	25 (100)	11 (69)	
CEA ^f (ng/mL)	Median (range)	2.7 (0.7-51.8)	2.7 (0.7-21.0)	2.4 (1.2-51.8)	0.98
CA19-9 ^g (U/mL)	Median (range)	202 (0.5-6450)	212 (0.5-6450)	138 (17-3203)	0.56
Histological grade	Well	5 (12)	3 (12)	2 (12.5)	0.83
	Moderately	28 (71)	17 (68)	12 (75)	
	Poorly	7 (17)	5 (20)	2 (12.5)	
Lymph node ratio ^h	0	5 (12)	0(0)	5 (31)	0.008
	0.1-0.199	23 (56)	14 (56)	9 (57)	
	0.2-0.299	8 (20)	7 (28)	1 (6)	
	0.3-	4 (10)	4 (16)	0 (0)	
	Unknown	1 (2)	0(0)	1 (6)	
Recurrent pattern ⁱ	Locoregional	21 (51)	10 (40)	11 (69)	0.15
	Liver	18 (44)	14 (56)	4 (25)	
	Peritoneum	4 (10)	4 (16)	0 (0)	
	Lungs	11 (27)	7 (28)	4 (25)	
	Bones	1 (2)	1 (4)	0 (0)	
Cycles of ADJ-GEM	Median (range)	6 (3–9)	6 (3-6)	6 (3–9)	0.88
ADJ-Rec ^j (months)	Median (range)	3.7(0.1-36.1)	1.3 (0.1-4.9)	11.5 (6.3–36.1)	
Chemotherapy ^k	GEM	21 (51)	6 (24)	15 (94)	0.00
	Alternatives ¹	20 (49)	19 (76)	1 (6)	
	(S1)	17 (41)	17 (68)	1 (6)	
	(GEM + S1)	1 (2)	0 (0)	0 (0)	
	(S1 + Radiation)	1 (2)	1 (4)	0 (0)	
	(S1 + oxaliplatin)	1 (2)	1 (4)	0 (0)	

^a PS, performance status.

^b PD, pancreaticoduodenectomy.

^c DP, distal pancreatectomy.

^d TP, total pancreatectomy.

^e Stage, UICC 7th.

^f CEA, carcinoembryonic antigen at resection.

^g CA-19-9, carbohydrate antigen 19-9 at resection.

^h Lymph node ratio, number of metastatic lymph nodes divided by number of examined nodes.

ⁱ Recurrent pattern, numbers of locoregional, extra-pancreatic, and combined recurrences were 11, 20, and 10 patients.

^j ADJ-Rec, period between the last date of ADJ-GEM and recurrence.

^k Chemotherapy, chemotherapy for recurrent disease after adjuvant chemotherapy.

¹ Alternatives, all alternative regimens consisted of fluoropyrimidine-containing regimens.

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