Complex Surgery Pancreas and Peri-Ampullary Region

Registration form

Dataset established by the Expert Working Group and approved by the "Stuurgroep Complexe Chirurgie - Groupe de Pilotage Chirurgie Complexe" on 30/04/2019. – Revision April 2021



All variables are required to be filled out unless stated otherwise (e.g. 'if possible', 'if applicable', 'not mandatory'). O Single-select variables: only one answer can be selected Multi-select variables: one or more answers can be selected		
Administrative patient data		
Hospital: Health insurance institution: National number for social security (INSZ/NISS)*:		
* if filled out in the WBCR application, the following was a last name: First name: Postal code: City: Country: Health insurance number: Date of birth: Date of death: Sex: Male Female		
General information		
dysplasia (8453/0) Other benign tumour, specify: Chronic pancreatitis Other, specify: Chronic pancreatitis Other, specify: Chronic pancreatitis Other, specify: Chronic pancreatitis Chronic pancreatitis Chronic pancreatitis Primary tumour for a malign Relapse of primary Chronic pancreatitis Histological data primary Primary tumour/relapse Histological diagnosis pro Only to be filled out for a Clinical TNM primary tumoury	pancreas) ry tumour ary tumour not located in/near (peri-)pancreas) § tumour/relapse: / (dd/mm/yyyy) e localisation: rimary tumour/relapse: primary tumour or metastasis, not a relapse:	
	d/mm/yyyy) tification variables (e.g. name, INSZ/NISS): (include as text)	



- Was the patient referred?			
O No			
O Yes			
- Referring hospital: Belgian:		or foreign:	
		0	
If the patient did not undergo surgery, the regist	ration can b	e terminatea	l here.
O Yes			
If the patient underwent surgery, please fill out t	he following	y variables	
Indication:			
O Malignant tumour *			
O Adenoma			
O Cystadenoma			
O Intraductal Papillary Mucinous Neoplasm (IPMN) w	ith low grad	e or moderat	te dysplasia
(8453/0)			7-1
O Other benign tumour, specify:			
O Chronic pancreatitis			
O Other, specify:			
other, speeny.	•••••	• • • • • • • • • • • • • • • • • • • •	
* Only to be filled out for a malignant tumour:			
- Lesion to treat (in (peri-)pancreas)			
O Primary tumour §			
Relapse of primary tumour			
Metapse of primary tumour Metastasis (primary tumour not locate)	d in/noar/n	ori Inancroa	a) &
· · · · · · · · · · · · · · · · · · ·		• •	-
- Incidence date primary tumour/relapse:			
- Primary tumour/relapse localisation:			
 Histological diagnosis primary tumour/relaps 	e:		
§ Only to be filled out for a primary tumour or m	etastasis, n	ot a relapse:	
 Clinical TNM primary tumour (cTNM): 	cT:	cN:	cM:
 Pathological TNM primary tumour (pTNM): 	pT:	pN:	pM:
The of FIRST discounts weatherd			
Type of FIRST diagnostic method:			
O CT			
O MRI			
O PET			
O PET/CT			
O ERCP (endoscopic retrograde cholangio-pancreatog	raphy)		
EUS (endoscopic ultrasound)/endoscopy			
Surgery (laparoscopy/laparotomy)			
- Date:/ (dd/mm/yyyy)			
Mothod to obtain first tissue sounds for historists also in the	aluatia»:		
Method to obtain first tissue sample for histopathological evi			
O ERCP (endoscopic retrograde cholangio-pancreatog	(rapny)		
O EUS (endoscopic ultrasound)/endoscopy	,		
O Surgery (laparoscopy/laparotomy/'complex' surger	y)		
Ост			
•			
O MRI			



/ (dd/mm/yyyy)		
er RIZIV/INAMI: (not mandatory)		
er RIZIV/INAMI: (not mandatory, if applicable)		
report:		
referred?		
eferring hospital: Belgian:		
Patient characteristics		
cm		
f surgery:kg		
ce status at time of surgery: inptomatic, normal activity ptomatic, but ambulant ptomatic, bedbound <50% of the day ptomatic, bedbound >50% of the day ptomatic, bedbound >50% of the day pletely dependent, 100% bedbound		
perative risk): thy person systemic disease, normal activity bus systemic disease, limited activity threatening illness, handicapped		
or to surgery) - Charlson Modified Index (not the current surgery indication!):		
THE STATE OF THE S		



	☐ Mild liver disease
	☐ Moderate-severe liver disease
	☐ Moderate-severe renal disease
	☐ Chronic pulmonary disease
	☐ Peptic ulcer
	☐ Hemiplegia
	☐ Dementia
	Diabetes without any damage to end-organs
	☐ Diabetes with damage to end-organs
	Any tumour (without metastasis)
	Leukaemia (acute or chronic)
	☐ Lymphoma
	Metastatic solid tumour
	☐ AIDS (not just HIV positive)
Is tha	patient currently (= at time of surgery) treated with antithrombotic medication?
13 (11)	O No
	O Yes
	☐ B01AA: Vitamin K antagonists (e.g. warfarin)
	B01AB: Heparin group (e.g. heparin)
	B01AC: Platelet aggregation inhibitors excluding heparin (e.g. acetylsalicylic acid)
	☐ B01AD: Enzymes (e.g. streptokinase)
	B01AE: Direct thrombin inhibitors (e.g. desirudin)
	☐ B01AF: Direct Xa inhibitors (e.g. rivaroxaban)
	☐ B01AX: Other antithrombotic agents (e.g. dermatan sulfate)
	Dozran other anathromostic agents (e.g. actimatan sunate)
Surge	ery
Did th	e patient receive any other treatment modality before this surgical procedure? O No
	O Yes
	☐ Chemotherapy ***
	- Start date:/ (dd/mm/yyyy)
	- Date latest treatment:/ (dd/mm/yyyy)
	- Type of chemotherapy:
	O Gemcitabine-based regimen
	O FOLFIRINOX (5-Fluorouracil, Leucovorin, Irinotecan and Oxaliplatin)-
	based regimen
	O Other, specify:
	Radiotherapy ***
	- Start date:/ (dd/mm/yyyy)
	- Date latest treatment:/ (dd/mm/yyyy)
	☐ Prior abdominal surgery
	Type of surgery:
	Other treatment modality (that could affect the pancreas), specify:
	°° Only to be filled out in case of neoadjuvant chemo- and/or radiotherapy:
	- Resectability status of the (peri-)pancreatic lesion before neoadjuvant treatment:
	O Upfront resectable
• •	O Borderline resectable
4	O Unresectable



Date of surgery:/ (dd/mm/yyyy)
* Only to be filled out for a malignant tumour: - Resectability status of the (peri-)pancreatic lesion before surgery: O Upfront resectable O Borderline resectable O Unresectable
Type of surgery:
O Minimally invasive surgery (MIS)
O Total laparoscopic
O Total robotic O Hybrid (languageonic L robotic)
O Hybrid (laparoscopic + robotic)O Open
O Conversion from MIS to open surgery
- Reason for conversion:
Nomenclature code:
O 242830-242841: Pancreaticoduodenectomy
O Pancreaticoduodenectomy
O Total pancreatectomy
- Localisation lesion:
O Pancreatic head / peri-ampullary region
O Pancreatic body or tail
• 242852-242863: Hemipancreatectomy left with jejunal anastomosis of the resection plane
of the pancreas, or almost total pancreatectomy (95 pct)
242874-242885: Hemipancreatectomy left242896-242900: Enucleation of a pancreatic tumour
- Localisation tumour:
Pancreatic head / peri-ampullary region
O Pancreatic body or tail
·
Simultaneous vascular resection?
O No
YesSuperior mesenteric vein/portal vein (SMV/PV) resection
- Type of SMV/PV reconstruction:
with primary wedge-reconstruction
with primary end-to-end reconstruction
with vascular autograft interposition
O with vascular allograft interposition
 with synthetic/prosthetic interposition
 with peritoneal patch wedge-reconstruction
without reconstruction
Arterial resection
- Type of arterial resection:
O Hepatic artery
O Coeliac trunk O Superior mesenteric artery (SMA)
 Superior mesenteric artery (SMA) Type of arterial reconstruction:
 Type of afterial reconstruction. With primary wedge-reconstruction
with primary wedge-reconstruction with primary end-to-end reconstruction
with primary that to the reconstruction with vascular autograft interposition
with vascular allograft interposition



	On the substitute of the state
	with synthetic/prosthetic interpositionwithout reconstruction
	other organ resection?
O No	
Yes	
	Colon
	Stomach
	Sur-renal gland
	Spleen
	Other, specify:
* Only to be fill	led out for a malignant tumour:
	ual disease - resection margins:
	R0: tumour-free resection margin > 1 mm
	R1 indirect: tumour-free resection margin ≤ 1 mm
	R1 direct: tumour involvement of the resection margin
9	
•	NZ. Macroscopic tumour transcettori
Lymphadenect	omy:
O No	
O Yes	
-	Region:
	☐ Peri-tumoural
	☐ Coeliac trunk
	☐ SMA origin (superior mesenteric artery)
	☐ Para-aortic
-	Number of lymph nodes retrieved:
-	Number of lymph nodes with tumoural involvement:
Post-surgery	<i>,</i>
Postoperative (complications (90 days post-op, in-hospital complications):
O No	
O Yes	
-	Type of postoperative complication(s):
	☐ Clinically relevant pancreatic fistula [cf. Bassi et al. (ISGPS), Surgery, 2017]
	O ISGPS grade B
	○ ISGPS grade C
	☐ Haemorrhage [cf. Wente et al. (ISGPS), Surgery, 2007]
	O ISGPS grade A
	O ISGPS grade B
	O ISGPS grade C
	☐ Delayed gastric emptying [cf. Wente et al. (ISGPS), Surgery, 2007]
	O ISGPS grade A
	O ISGPS grade B
	O ISGPS grade C
	☐ Bile leakage [cf. Koch et al. (ISGLS), Surgery, 2011]
	O ISGLS grade A
	O ISGLS grade B
	O ISGLS grade C
	☐ Intra-abdominal abscess
H	Other specify:



-	General Clavien-Dindo classification (90 days post-op, in-hospital complications): (https://www.baus.org.uk/patients/surgical_outcomes/grading_of_surgical_complications.aspx) O TOSGS grade 1 O TOSGS grade 2 O TOSGS grade 3a O TOSGS grade 3b O TOSGS grade 4a O TOSGS grade 4b O TOSGS grade 5
Re-operation r O No O Yes	necessary?
J 165	Type of surgery:
PI - - -	ease upload the following reports without patient identification variables: MC/CM report (if applicable):
Was the patier No Yes	Discharge date after surgery:/
Did the patient O No O Yes -	In-hospital? O No Yes Date of death:/



* Only to be filled	out for a malignant tumour:
- Was the	re adjuvant therapy after surgery?
ON	0
O Ye	25
	O Systemic therapy
	O Radiotherapy
	O Combined therapy (systemic + radiotherapy)
Was the patient in	ncluded in a clinical trial for (neo)adjuvant therapy or surgery?
O No	
O Unknow	'n
Yes	
- Eu	ıdraCT number: or NCT number:



Registration form - version overview

Version	Changes
v1.0	Original document (28/06/2019)
v1.1	 The variable 'Nomenclature code' changed from multi- to single-select variable The variable 'Re-admission within 30 days after discharge' was moved under the variable 'Was the patient discharged after surgery during the 90-day post-op period' – option 'Yes', so that it should only be answered when the patient was discharged
v1.2	 The symbols related to the variable 'Indication' in case surgery is performed, were altered to * for malignant tumoural indications The answer option 'EUS (endoscopic ultrasound)' was expanded to 'EUS (endoscopic ultrasound)/endoscopy' for the variables 'Type of FIRST diagnostic method' and 'Method to obtain first tissue sample for histopathological evaluation' The variable 'Was the patient hospitalized at the referring hospital' was further clarified by adding: (before referral) to the question The variable 'Comorbidity (prior to surgery) - Charlson Modified Index' was further clarified by adding: 'not the current surgery indication!' The MC/CM report (if applicable), pathology report (if applicable) and surgery report are requested when re-operation was necessary The variable 'Re-admission within 30 days after discharge' was further clarified by adding: 'from the centre that performed the surgery' The variable 'Was there adjuvant therapy after surgery?' and the variable to specify the adjuvant therapy were moved further down the document
v1.3 (Aug/2019)	 For the nomenclature code '242830-242841: Pancreaticoduodenectomy', the answering option 'Whipple' has been changed to 'Pancreaticoduodenectomy' For the nomenclature code '242830-242841: Pancreaticoduodenectomy' and '242896-242900: Enucleation of a pancreatic tumour', the answering option 'Pancreatic tail' has been changed to 'Pancreatic body or tail' The option 'without reconstruction' has been added in case of a SMV/PV resection A question has been added regarding the type of reconstruction in case of an arterial resection The definitions corresponding to R0 and R1 resection margins have been changed: From 'R0: no residual disease' to 'R0: tumour-free resection margin > 1 mm' From 'R1 indirect: R0 with magnitude of resection margin < 1 mm' to 'R1 indirect: tumour-free resection margin < 1 mm' From 'R1 direct: microscopic tumour positive margin' to 'R1 direct: tumour involvement of the resection margin' The question on lymph node retrieval has been changed from 'number of locoregional lymph nodes retrieved' to 'number of lymph nodes retrieved' The question on the number of involved lymph nodes has been changed from 'number of metastatic loco-regional lymph nodes' to 'number of lymph nodes with tumoural involvement'
v2.0 (Sep/2020)	 Added additional question in case of malignant indication (lesion to treat): primary tumour, relapse of primary tumour or metastasis Added specific variables from the MOC/COM cancer registration (bijlage/annexe 55) in case of a malignant indication: incidence date primary tumour/relapse, primary tumour/relapse localization, histological diagnosis primary tumour/relapse, cTNM and pTNM in case of primary tumour or

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	metastasis
	- MC/CM date
	 RIZIV numbers surgeon(s)
v3.0	- RIZIV numbers surgeon(s) not mandatory
(Apr/2021)	- Surgery report not mandatory
	- Added additional question in case of malignant indication and neoadjuvant
	chemo- or radiotherapy (resectability status before neoadjuvant treatment):
	upfront resectable, borderline resectable or unresectable
	- Added additional question in case of malignant indication (resectability status
	before surgery): upfront resectable, borderline resectable or unresectable
	- The option 'R1 indirect: tumour-free resection margin < 1 mm' was further
	specified as being '≤ 1 mm'
	- Surgery report re-operation not mandatory

