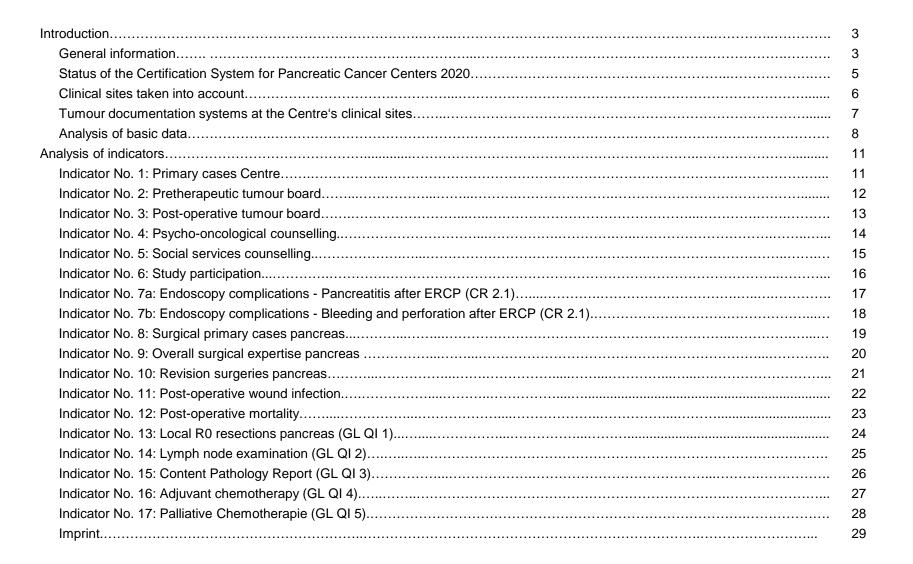
# **Annual Report 2021**

# of the Certified Pancreatic Cancer Centres

Audit year 2020 / Indicator year 2019









### **General information**

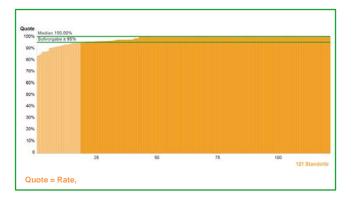


Indicator No. 12: Post-operative mortality
Indicator No. 13: Local R0 resections pancreas (GL QI 1)
Indicator No. 14: Lymph node examination (GL QI 2)
Indicator No. 16: Content Pathology Report (GL QI 3)
Indicator No. 17: Adjuvant chemotherapy (GL QI 4)
Indicator No. 18: Palliative Chemotherapie (GL QI 5)

### Quality indicators of the guidelines (GL QI):

In the table of contents and in the respective headings the indicators, which correspond to the quality indicators of the evidence-based guidelines are specifically identified. The quality indicators identified in this way are based on the strong recommendations of the guidelines and were derived from the guidelines groups in the context of the guideline programme oncology. Further information: www.leitlinienprogramm-onkologie.de\*

	Indicator definition	All clinical sites 2017					
		Median	Range	Patients Total			
Numerator	Revision surgeries after peri-operative complications within 30d of pancreatic resection	4*	0 - 21	555			
Denominator	Pancreatic resections (5-524ff and 5-525ff. with and without ICD-10 C25) (= Indicator 9)	35.5*	12 - 180	4,916			
Rate	Target value ≤ 10%	9.31%	0.00% - 34.69%	11.29%**			



### **Basic data indicator:**

The definitions of **numerator**, **population (=denominator)** and **target value** are taken from the Data Sheet. The **medians** for numerator and population do not refer to an existing Centre but indicate the median of all cohort numerators and the median of all cohort denominators. The values for the numerators, populations and rates of all Centres are given under range.

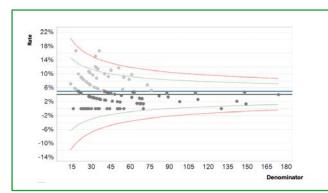
Under Patients Total, the percentage of the total number of patients treated in the centres according to the indicator is given.

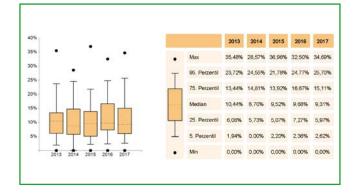
### **Diagram:**

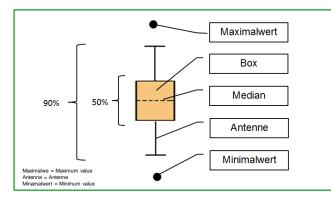
The x-axis indicates the number of Centres, the y-axis gives the values in percent or number (e.g. primary cases). The target value is depicted as a horizontal green line. The median, which is also depicted as a green horizontal line, divides the entire group into two equal halves.

\*For further information on the methodological approach see "Development of guideline-based quality indicators" (https://www.leitlinienprogramm-onkologie.de/fileadmin/user\_upload/Downloads/Methodik/QIEP\_OL\_Version2\_english.pdf)

### **General information**







### **Funnel Plots:**

The funnel plots show the ratio of included patient numbers and indicator result for the quality indicators that are presented as a quotient. The x-axis represents the population of the indicator (numerical value of the denominator), the y-axis the result of the indicator for the respective centre. The target is shown as a blue solid line. The mean value, shown as a black solid line, divides the group into two halves. The green dotted lines represent the 95% confidence intervals (2 standard deviations of the mean), the red dashed lines the 99.7% confidence intervals (3 standard deviations of the mean).

### **Cohort development:**

Cohort development in the years 2015, 2016, 2017, 2018 and 2019 is presented in a box plot diagram.

### **Box plot:**

A box plot consists of a **box with median**, **whiskers** and **outliers**. 50 percent of the Centres are within the box. The median divides the entire available cohort into two halves with an equal number of Centres. The whiskers and the box encompass a 90<sup>th</sup> percentile area/range. The extreme values are depicted here as dots.

Certification

# Status of the Certification System for Pancreatic Cancer Centres 2020



	31.12.2020	31.12.2019	31.12.2018	31.12.2017	31.12.2016	31.12.2015
Ongoing procedures	5	8	5	10	5	8
Certified Centres	124	117	112	98	91	77
Certified clinical sites	127	120	115	100	93	79

## **General information**

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	31.12.2020	31.12.2019	31.12.2018	31.12.2017	31.12.2016	31.12.2015
Clinical sites included in the Annual Report	121	116	106	93	83	72
equivalent to	95.3%	96.7%	92.2%	93%	89.2%	91.1%
Primary cases total*	6,068	5,683	5,104	4,526	3,877	3,177
Primary cases per clinical site (mean)*	50	49	48	49	47	44
Primary cases per clinical site (median)*	49	43	45	44	43	37.5

\*The figures are based on the clinical sites listed in the Annual Report.

This Annual Report looks at the Pancreatic Cancer Centres certified in the Certification System of the German Cancer Society (DKG). The Data Sheet, which is part of the Catalogue of Requirements, is the basis for the diagrams in the Annual Report.

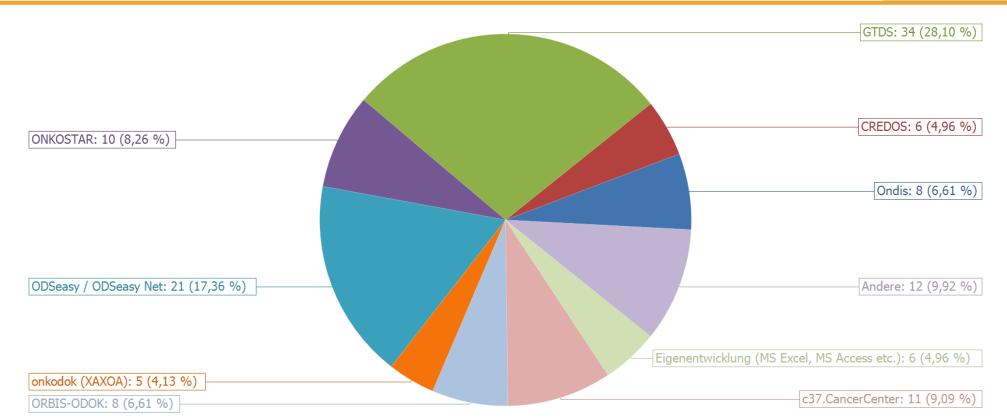
121 of the 127 certified clinical sites of the Centres are included in the Annual Report. 6 clinical sites, certified for the first time in 2020, are not included (data depiction of a full calendar year is not mandatory for initial certifications).

Within 127 certified clinical sites a total of 6,259 primary cases was treated. An updated list of all certified centres is to be found under <a href="http://www.oncomap.de">www.oncomap.de</a>

The indicators published here refer to the indicator year 2019. They are the assessment basis for the audits conducted in 2020.



### Tumour documentation systems at the Centre's clinical sites



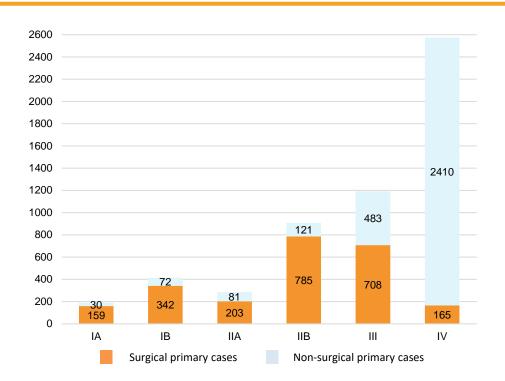
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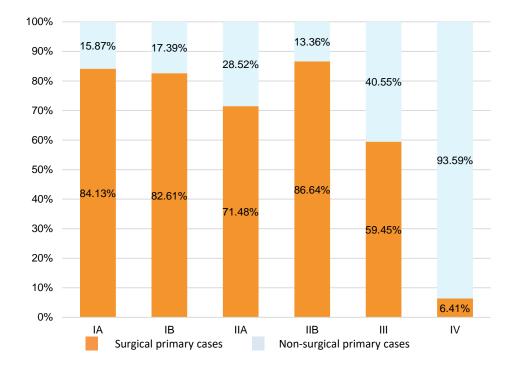
Legend:	
Other	System used in ≤ 3 clinical sites

The information on the tumour documentation system was taken from the data sheet (Basic Data Sheet). It is not possible to specify more than one system. In many cases, support is provided by the cancer registries or there may be a direct link to the cancer registry via a specific tumour documentation system.



### Basic data - Primary cases - Pancreatic cancer

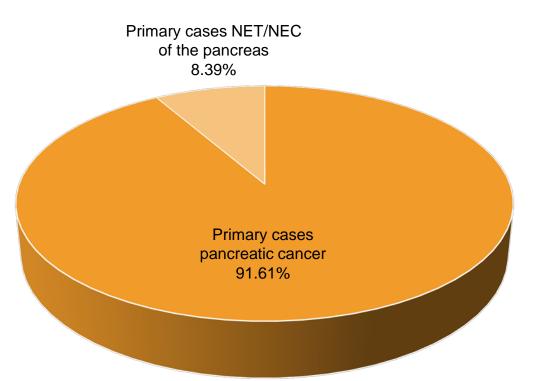




	IA	IB	IIA	IIB	m	IV	Total
Surgical primary cases	159 (84.13%)	342 (82.61%)	203 (71.48%)	785 (86.64%)	708 (59.45%)	165 (6.41%)	2,362 (42.49%)
Non-surgical primary cases	30 (15.87%)	72 (17.39%)	81 (28.52%)	121 (13.36%)	483 (40.55%)	2,410 (93.59%)	3,197 (57.51%)
Primary cases total	189 (100%)	414 (100%)	284 (100%)	906 (100%)	1,191 (100%)	2,575 (100%)	5,559 (100%)

### **Basic data - Primary cases Pancreatic cancer**

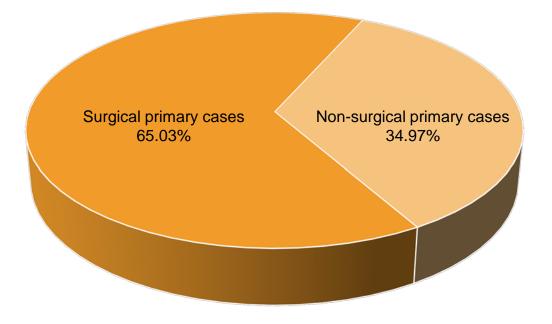




Primary cases Pancreatic cancer					
Pancreatic carcionoma	Neuro-endocrine Pancreatic Tumours (NET) and neuroendokrine Pancreatic Carcinomas (NEC)	Primary cases Total			
5,559 (91.61%)	509 (8.39%)	6,068 (100%)			

# Basic data

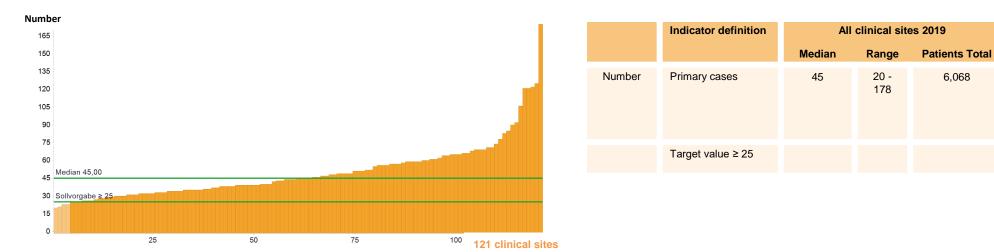




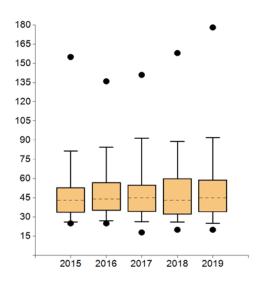
Surgical Primary	Non-surgical	Primary cases
cases	Primary cases	Total
331 (65.03%)	178 (34.97%)	



## **1. Primary cases Centre**



Sollvorgabe = target value



		2015	2016	2017	2018	2019
•	max	155.00	136.00	141.00	158.00	178.00
Т	95 <sup>th</sup> percentile	81.60	84.40	91.50	89.00	92.00
	75 <sup>th</sup> percentile	53.00	57.00	55.00	60.00	59.00
	Median	43.00	44.00	45.00	43.00	45.00
	25 <sup>th</sup> percentile	33.50	35.00	34.25	32.00	34.00
$\bot$	5 <sup>th</sup> percentile	26.10	27.00	26.25	26.00	25.00
•	Min	25.00	25.00	18.00	20.00	20.00

Clinical sites evaluable da		Clinical sites meeting the target value			
Number	%	Number	%		
121	100.00%	117	96.69%		

#### Comments:

The absolute number of primary cases increased by 6.34% to now over 6,000 primary cases. 4 centres (previous year: 2) failed to meet the target of at least 25 primary cases. Since a surveillance audit was due for these centres in 2020, it was possible to fall short of the target. For the re-certification audit, the average case numbers of the last 3 years must be proven. The reasons for this were changes in chief physicians, high competitive pressure and lack of histological backup. The centres countered this with, among other things, public relations work and maintaining contact with referring physicians. A remark was issued regarding the obligatory histological backup for counting as a primary case.



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## 2. Pretherapeutic tumour board

Rate									
	Median 96,72%			and a link a link of the last links of the		Indicator definition	AI	clinical sites	2019
90%	Sollvorgabe ≥ 95%						Median	Range	Patients
80%									Total
70%					Numerator	Primary cases with	42*	19 - 175	5,801
60%						pancreatic cancer who were presented at the			
50%						pre-operative conference			
40%						conicience			
30%					Denominator	Primary cases (=	45*	20 - 178	6,068
20%						Indicator 1)			
10%									
0									
	25	50	75	100 121 clinical sites	Rate	Target value ≥ 95%	96.72%	77.36% -	95.60%**
	Sollvorgabe = target value							100%	

100% 2015 2019 2016 2017 2018 90% 100% 100% 100% 100% 100% max 80% 70% 100% 100% 100% 100% 100% 95<sup>th</sup> percentile 60% 97.88% 98.31% 75<sup>th</sup> percentile 100% 98.04% 98.16% 50% 95.52% 95.88% 96.43% 96.72% Median 95.74% 40% 30% 25<sup>th</sup> percentile 88.68% 88.24% 90.34% 92.92% 95.31% 20% 73.16% 83.33% 5<sup>th</sup> percentile 78.06% 79.38% 84.38% 10% Min 41.75% 62.26% 62.75% 74.55% 77.36% 2015 2016 2017 2018 2019

Clinical sites evaluable da		Clinical sites the target val	•		
Number	%	Number	%		
121	100.00%	94	77.69%		

#### Comments:

The development of the pre-therapeutic presentation rate continues to be positive. However, 27 centres (previous year: 46) presented less than 95% of primary cases at the tumour board. They justified this most frequently with patients assigned externally for therapy, refusal of any therapy, emergency operations and incidental findings with originally different indications. The auditors made a total of 5 remarks and emphasised that all primary cases should be presented pre-therapeutically.

\*The medians for numerator and population do not refer to an existing Centre but indicate the median of all cohort numerators and the median of all cohort denominators.

### 3. Post-operative tumour board

Rate										
100%	Median 100,00% Sollvorgabe ≥ 95%						Indicator definition	All	clinical site	s 2019
90%								Median	Range	Patients Total
80%						Numerator	Surgical primary cases	18*	4 - 67	2,632
70%						Humorator	pancreas presented in	10	1 07	2,002
60%							the post-operative conference			
50%										
40%						Denominator	Surgical primary cases	18*	4 - 69	2,693
30%							pancreas (5-524ff. 5-	10	1 00	2,000
20%							525ff with ICD-10 C25) (= Indicator 8)			
10%										
0										
		25	50	75	100 121 clinical sites	Rate	Target value ≥ 95%	100%	83.33% -	97.73%**
	Sollvorgabe = t	arget value			121 Clinical sites				100%	

Sollvorgabe = target value

100% 90% -				2015	2016	2017	2018	2019
80% -	- · · · ·	•	max	100%	100%	100%	100%	100%
70% - 60% -	•	Т	95 <sup>th</sup> percentile	100%	100%	100%	100%	100%
50%			75 <sup>th</sup> percentile	100%	100%	100%	100%	100%
40% -			Median	100%	100%	100%	100%	100%
30% -			25 <sup>th</sup> percentile	95.74%	96.00%	95.94%	95.20%	96.36%
20% - 10% -			5 <sup>th</sup> percentile	86.14%	87.36%	90.00%	88.89%	90.48%
	2015 2016 2017 2018 2019							
	2013 2010 2017 2010 2019	•	Min	68.75%	80.00%	81.82%	77.78%	83.33%

Clinical sites evaluable da		Clinical sites the target va	•
Number	%	Number	%
121	100.00%	103	85.12%

#### Comments:

The postoperative presentation rate continues to improve at a high level. 79 centres achieved a complete presentation. 18 centres (previous year: 25) remained below 95%. The sole reason for this was the early postoperative death of individual patients. Several centres addressed this as a substitute in the M&M conferences.

\*The medians for numerator and population do not refer to an existing Centre but indicate the median of all cohort numerators and the median of all cohort denominators.





### 4. Psycho-oncological counselling

Rate	Begründungspflicht > 95%						
90%	begrundungspinont < 55 %			Indicator definition	All	clinical sites	2019
80%					Median	Range	Patients Total
70%							
60%			Numerator	Patients who received psycho-oncological care	26*	6 - 131	3,426
50%	Median 49,66%			(length of consultation ≥			
40%				25 min)			
30%	Begründungspflicht < 30%		Denominator	Drimony appage ( Indigator	51*	04 000	0.000
20%			Denominator	Primary cases (= Indicator 1) + patients with	51	21 - 202	6,982
10%				recurrence or new metastasis			
0	25 50 75	100					
	Begründungspflicht = mandatory statement of reasons	121 clinical sites	Rate	Mandatory statement of reasons*** < 30% and >95%	49.66%	17.02% - 94.59%	49.07%**

100%	•
90% -	• • • • •
80% -	- $     -$
70% -	
60% -	
50%-	
40% -	
30% -	
20% -	$\top \perp \perp \perp \perp$
10% -	$\perp$ • • •
-	2015 2016 2017 2018 2019

4000/

			2015	2016	2017	2018	2019
	•	max	<mark>88.89%</mark>	90.00%	<mark>92.94%</mark>	95.08%	94.59%
	Т	95 <sup>th</sup> percentile	<mark>78.04%</mark>	84.28%	85.32%	83.29%	77.78%
ſ		75 <sup>th</sup> percentile	<mark>58.06%</mark>	61.33%	<mark>61.25%</mark>	<mark>67.97%</mark>	65.71%
		Median	<mark>40.48%</mark>	<mark>45.71%</mark>	<mark>48.98%</mark>	<mark>49.24%</mark>	49.66%
l		25 <sup>th</sup> percentile	<mark>25.41%</mark>	31.71%	36.47%	38.19%	35.48%
	$\bot$	5 <sup>th</sup> percentile	<mark>11.51%</mark>	17.01%	21.52%	21.51%	21.31%
	•	Min	0.00%	11.96%	12.77%	15.24%	17.02%

Clinical sites evaluable da		Clinical sites within the plausibility limits				
Number	%	Number	%			
121	100.00%	106	87.60%			

#### Comments:

Overall, the psycho-oncological care rate is at the previous year's level. Improvements can be observed over the years, especially in the lower percentage ranges. Centres outside the plausibility corridor are asked to provide a justification for the audit. As in the previous year, 15 centres were below 30%. In the vast majority of cases, patients expressed no need for psycho-oncological care despite consistent screening. Individual centres countered this by increasing the presence of psychooncologists on the ward and by sensitising staff.

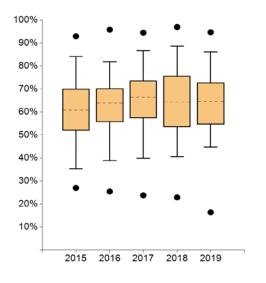
\*The medians for numerator and population do not refer to an existing Centre but indicate the median of all cohort numerators and the median of all cohort denominators

\*\* Percentage of centre patients who were treated according to the indicator.



## 5. Social services counselling

Rate								
90%		· · · · · · · · · · · · · · · · · · ·						2019
80%		-				Media n	Range	Patienten Gesamt
70%	Median 64,63%			Numerator	Patients who received	31*	9 - 131	4,413
60%				Numerator	counselling from the social services	31	9-131	4,415
50%	Begründungspflicht < 45%							
40%								
30% -				Denominator	Primary cases (=	51*	21 - 202	6,982
20%					Indicator 1) + patients with recurrence or new			
10%					metastasis			
0								
	25 50 75	100	121 clinical sites	s Rate	Mandatory statement of	64.63%	16.36% -	63.21%**
	Begründungspflicht = mandatory statement of reasons				reasons*** < 45%	01.0070	94.64%	00.2170



		2015	2016	2017	2018	2019
•	max	<mark>92.86%</mark>	95.74%	94.44%	96.88%	94.64%
т	95 <sup>th</sup> percentile	<mark>84.00%</mark>	81.83%	86.53%	88.57%	86.11%
	75 <sup>th</sup> percentile	<mark>70.01%</mark>	70.21%	73.59%	75.63%	72.73%
	Median	<mark>60.81%</mark>	63.83%	<mark>66.32%</mark>	64.23%	64.63%
	25 <sup>th</sup> percentile	<mark>51.86%</mark>	55.56%	<mark>57.40%</mark>	53.51%	54.55%
$\bot$	5 <sup>th</sup> percentile	<mark>35.28%</mark>	38.84%	<mark>39.93%</mark>	40.54%	44.74%
•	Min	26.98%	25.42%	23.77%	22.86%	16.36%

Clinical sites evaluable da		Clinical sites within the plausibility limits				
Number	%	Number	%			
121	100.00%	114	94.21%			

#### Comments:

Just under two thirds of the patients in the denominator receive counselling from the social service. The ratio thus remains stable. 3 of the 7 centres with a rate below 45% are located in Austria or Switzerland, where other service entitlements and responsibilities apply. Apart from this, the dominant reason for a comparatively low rate was the lack of need for counselling on the part of the patients.

\*The medians for numerator and population do not refer to an existing Centre but indicate the median of all cohort numerators and the median of all cohort denominators.

\*\* Percentage of centre patients who were treated according to the indicator

# 6. Study participation

Rate										
120%				Indicator definition		All clinical sites 2019				
105%								Median	Range	Patients Total
90%						Numerator	Patients who were	5*	0 - 149	1,592
75%							included in a study			,
60%										
45%				_						
30%						Denominator	Primary cases (= Indicator 1)	45*	20 - 178	6,068
15%	Median 9,84%									
0	Sollvorgabe ≥ 5%									
	25	50	75	100	121 clinical sites	Rate	Target value ≥ 5%	9.84%	0.00% -	26.24%**
	Sollvorgabe = target value	9							126.79%	

195% 180% 165% 150% 135% 120% 105% 90% 75% 60% 45% 30% 15% 2019 2015 2016 2017 2018

		2015	2016	2017	2018	2019
•	max	88.52%	<mark>151.61%</mark>	<mark>144.57%</mark>	<mark>192.73%</mark>	126.79%
Т	95 <sup>th</sup> percentile	<mark>67.71%</mark>	80.83%	94.87%	92.97%	100%
	75 <sup>th</sup> percentile	<mark>30.52%</mark>	32.89%	33.20%	24.72%	28.21%
	Median	<mark>13.95%</mark>	11.76%	14.29%	11.65%	9.84%
	25 <sup>th</sup> percentile	6.71%	5.00%	6.71%	3.81%	5.00%
$\bot$	5 <sup>th</sup> percentile	0.00%	0.00%	0.00%	0.00%	0.00%
•	Min	0.00%	0.00%	0.00%	0.00%	0.00%

Clinical sites evaluable da		Clinical sites meeting the target value	
Number	%	Number	%
121	100.00%	91	75.21%

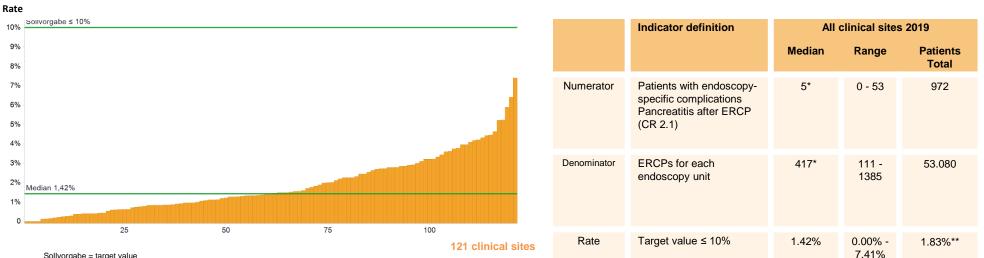
#### Comments:

The study rate is down overall compared to the previous year, with slight improvements in the lower percentages. 30 centres (previous year: 32) fall short of the target of at least 5% of the primary case number. The number of centres with a rate of 0% also fell from 17 to 12. Frequent reasons for low rates were patients with exclusion criteria or missing inclusion criteria of the studies, rejection by patients and a delayed start of the study. In the audits, tailor-made efforts to increase the rate (e.g. training of investigators) were agreed upon.

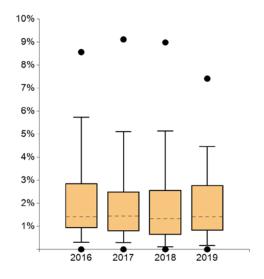
\*The medians for numerator and population do not refer to an existing Centre but indicate the median of all cohort numerators and the median of all cohort denominators.



### 7a. Endoscopy complications - Pancreatitis after ERCP (CR 2.1)



Sollvorgabe = target value



		2015	2016	2017	2018	2019
•	max		8.56%	9.11%	8.98%	7.41%
Т	95 <sup>th</sup> percentile		5.73%	5.11%	5.14%	4.46%
	75 <sup>th</sup> percentile		2.86%	2.50%	2.58%	2.78%
	Median		1.42%	1.45%	1.34%	1.42%
Щ	25 <sup>th</sup> percentile		0.93%	0.80%	0.64%	0.82%
$\perp$	5 <sup>th</sup> percentile		0.31%	0.30%	0.11%	0.16%
•	Min		0.00%	0.00%	0.00%	0.00%

Clinical sites evaluable da		Clinical sites meeting the target value		
Number	%	Number	%	
121	100.00%	121	100.00%	

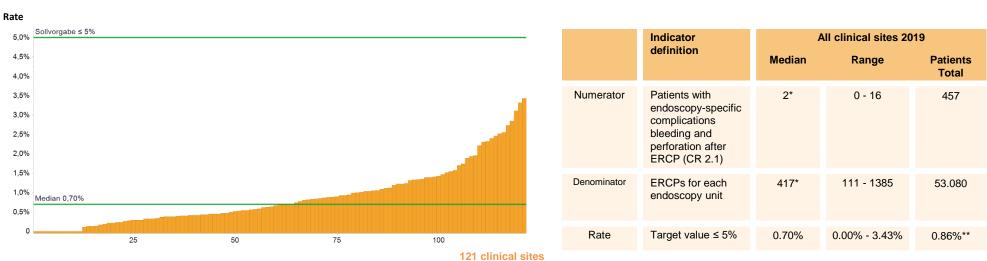
#### Comments:

As in the previous year, all centres remain below a pancreatitis complication rate of 10% for ERCPs. 43 centres recorded a rate of less than 1%, only 5 were above 5%. This speaks for an overall very good fulfilment of this indicator in the centres, showing improvements over the years especially in the upper percentage ranges.

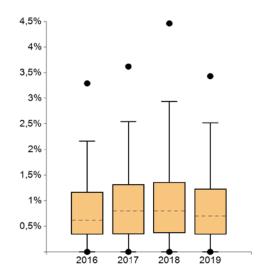
\*The medians for numerator and population do not refer to an existing Centre but indicate the median of all cohort numerators and the median of all cohort denominators.



### 7b. Endoscopy complications - bleeding and perforation after ERCP (CR 2.1)



Sollvorgabe = target value



		2015	2016	2017	2018	2019
•	max		3.29%	3.62%	4.46%	3.43%
Т	95 <sup>th</sup> percentile		2.17%	2.55%	2.94%	2.52%
	75 <sup>th</sup> percentile		1.17%	1.32%	1.36%	1.23%
	Median		0.62%	0.80%	0.80%	0.70%
L_	25 <sup>th</sup> percentile		0.34%	0.35%	0.37%	0.34%
$\perp$	5 <sup>th</sup> percentile		0.00%	0.00%	0.00%	0.00%
•	Min		0.00%	0.00%	0.00%	0.00%

Clinical sites evaluable da		Clinical sites meeting the target value		
Number	%	Number	%	
121	100.00%	121	100.00%	

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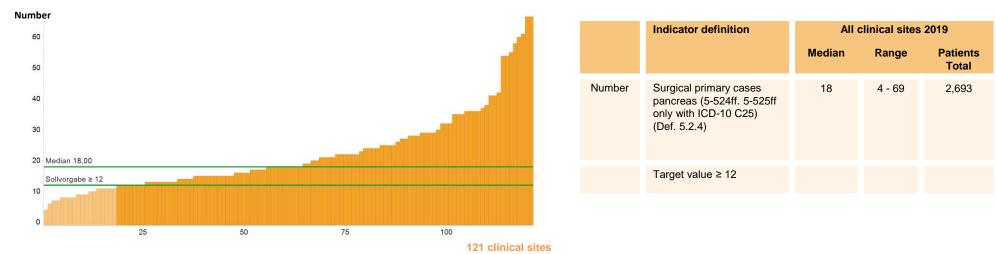
#### Comments:

Even when considering the complications of bleeding and perforation in ERCP, all centres are within the target of a maximum of 5%. Both the median and the overall rate across all centres have fallen compared to the previous year. Here too (as with indicator 7a), the visible improvement in the upper percentages is pleasing.

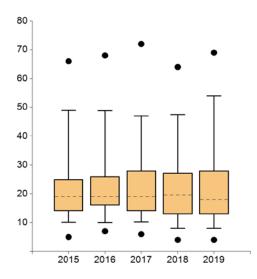
\*The medians for numerator and population do not refer to an existing Centre but indicate the median of all cohort numerators and the median of all cohort denominators.

### 8. Surgical primary cases pancreas (only ICD-10 C25 in combination with 5-524ff and 5-525ff)





Sollvorgabe = target value



		2015	2016	2017	2018	2019
•	max	66.00	68.00	72.00	64.00	69.00
Т	95 <sup>th</sup> percentile	48.90	48.80	47.00	47.50	54.00
	75 <sup>th</sup> percentile	25.00	26.00	28.00	27.25	28.00
	Median	19.00	19.00	19.00	19.50	18.00
	25 <sup>th</sup> percentile	14.00	16.00	14.00	13.00	13.00
$\bot$	5 <sup>th</sup> percentile	10.10	10.00	10.25	8.00	8.00
•	Min	5.00	7.00	6.00	4.00	4.00

	Clinical sites with evaluable data		meeting lue
Number	%	Number	%
121	100.00%	103	85.12%

#### Comments:

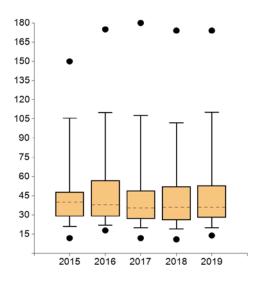
2 more centres than in the previous year failed to meet the target of at least 12 oeprative primary cases. Only 1 of these 18 centres was in the repeat audit. The centre was able to show that it met the target on average over the last 3 years. There is a tendency for centres with high case numbers to increase their numbers further. Centres below the target claimed a high proportion of metastatic stages in primary cases, postoperative diagnosis of distal bile duct and papillary carcinomas (not C25), high competitive pressure and patient wishes/individual contraindications. Measures such as better referral management, new recruitment and marketing measures were agreed in the audits.



### 9. Overall surgical expertise pancreas

Number									
165						Indicator definition	All	clinical sites 2	019
150							Median	Range	Patients
135							meenan	Range	Total
120					Number	Pancreas resections	36	14 - 174	5,522
105					Humbon	(left resection of the	00	14 174	0,022
90						pancreas. pancreatic			
75						head resection. total pancreatectomy. OPS			
60						5-524ff and 5-525ff			
45	Aedian 36,00					with and without ICD- 10 C25).			
30	Sollvorgabe ≥ 20					10 020).			
15 0									
0	25	50	75	100		Target value ≥ 20			
	Sollvorgabe = target value			121 clinical sites	5	0			

Sollvorgabe = target value



	2015	2016	2017	2018	2019
max	150.00	175.00	180.00	174.00	174.00
95 <sup>th</sup> percentile	105.70	109.80	107.75	102.00	110.00
75 <sup>th</sup> percentile	48.00	57.00	49.00	52.25	53.00
Median	40.00	38.00	35.50	36.00	36.00
25 <sup>th</sup> percentile	29.00	29.00	27.00	26.00	28.00
5 <sup>th</sup> percentile	21.00	22.00	20.00	19.25	20.00
Min	12.00	18.00	12.00	11.00	14.00
	95 <sup>th</sup> percentile 75 <sup>th</sup> percentile Median 25 <sup>th</sup> percentile	max 150.00   95 <sup>th</sup> percentile 105.70   75 <sup>th</sup> percentile 48.00   Median 40.00   25 <sup>th</sup> percentile 29.00   5 <sup>th</sup> percentile 21.00	Max     150.00     175.00       95 <sup>th</sup> percentile     105.70     109.80       75 <sup>th</sup> percentile     48.00     57.00       Median     40.00     38.00       25 <sup>th</sup> percentile     29.00     29.00       5 <sup>th</sup> percentile     21.00     22.00	max     150.00     175.00     180.00       95 <sup>th</sup> percentile     105.70     109.80     107.75       75 <sup>th</sup> percentile     48.00     57.00     49.00       Median     40.00     38.00     35.50       25 <sup>th</sup> percentile     29.00     29.00     27.00       5 <sup>th</sup> percentile     21.00     22.00     20.00	max     150.00     175.00     180.00     174.00       95 <sup>th</sup> percentile     105.70     109.80     107.75     102.00       75 <sup>th</sup> percentile     48.00     57.00     49.00     52.25       Median     40.00     38.00     35.50     36.00       25 <sup>th</sup> percentile     29.00     29.00     27.00     26.00       5 <sup>th</sup> percentile     21.00     22.00     20.00     19.25

Clinical sites evaluable dat		Clinical sites meeting the target value	
Number	%	Number	%
121	100.00%	116	95.87%

#### Comments:

The number of pancreas resections per centre remains constant. The target of 20 procedures was missed by 5 centres (previous year: 6). The reasons given by the centres focus more on staffing/operating theatre capacities. Due to the lack of restriction to C25 in this indicator, many centres are much more successful in achieving the target than in indicator 8.



### **10.** Revision surgeries pancreas

Rate						
35%			Indicator definition	All	clinical sites	2019
30%				Median	Range	Patients Total
25% 20% 15%		Numerator	Revision surgeries after peri-operative complications within 30d of pancreatic resection	4*	0 - 25	658
10% 5% 0	Sollvorgabe ≤ 10%       Median 9,76%       25     50     75     100	Denominator	Pancreatic resections (5-524ff and 5-525ff. with and without ICD- 10 C25) (= Indicator 9)	36*	14 - 174	5,522
	Sollvorgabe = target value 121 clinical sites	Rate	Target value ≤ 10%	9.76%	0.00% - 36.07%	11.92%**

40 /0	
35% -	• • • •
30% -	• 
25% -	тТТ
20% -	T
15% -	
10% -	
5% -	
1	2015 2016 2017 2018 2019

40% ¬

		2015	2016	2017	2018	2019
•	max	<mark>36.96%</mark>	32.50%	34.69%	35.14%	36.07%
Т	95 <sup>th</sup> percentile	<mark>21.78%</mark>	24.77%	25.70%	25.37%	28.00%
	75 <sup>th</sup> percentile	13.92%	16.67%	15.11%	15.31%	15.15%
	Median	9.52%	9.68%	9.31%	9.65%	9.76%
	25 <sup>th</sup> percentile	5.07%	7.27%	5.97%	7.14%	6.90%
$\perp$	5 <sup>th</sup> percentile	2.20%	2.36%	2.62%	2.15%	1.92%
•	Min	0.00%	0.00%	0.00%	0.00%	0.00%

Clinical sites evaluable da		Clinical sites meeting the target value			
Number	%	Number	%		
121	100.00%	68	56.20%		

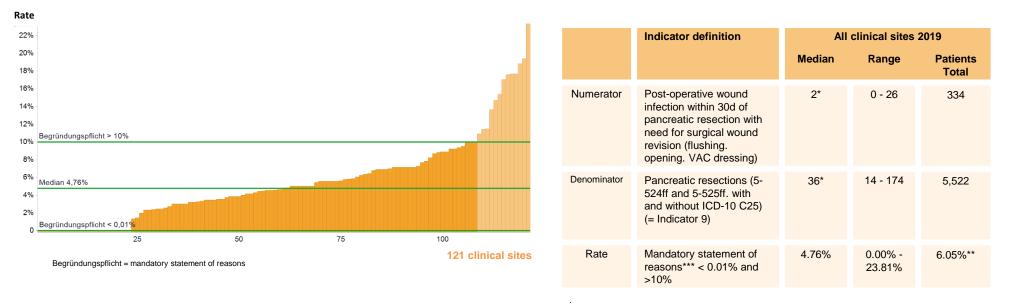
#### Comments:

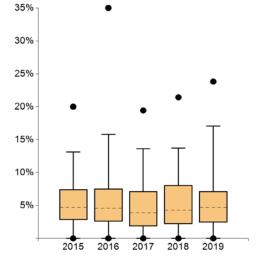
Meeting the target continues to be challenging for many centres. The number of centres with a revision surgery rate above 10% decreases slightly from 54 to 53 with an increased population. Common complications (bleeding, anastomotic insufficiencies, burst belly, fistulae, necrosis, pancreatitis, wound infections, etc.) were discussed in M&M conferences. Some centres claimed a high-risk patient population and an early indication for revision to reduce mortality or avoid serious complications. In the audits, most of the rates above the target could be plausibilised; nevertheless, 10 notices were issued.

\*The medians for numerator and population do not refer to an existing Centre but indicate the median of all cohort numerators and the median of all cohort denominators.



### **11. Post-operative wound infections**





		2015	2016	2017	2018	2019
•	max	<mark>20.00%</mark>	35.00%	19.44%	21.43%	23.81%
Т	95 <sup>th</sup> percentile	<mark>13.13%</mark>	15.79%	13.64%	13.72%	17.05%
	75 <sup>th</sup> percentile	7.41%	7.50%	7.14%	8.09%	7.14%
	Median	4.72%	4.57%	3.93%	4.26%	4.76%
Ц	25 <sup>th</sup> percentile	2.86%	2.56%	1.85%	2.19%	2.44%
$\perp$	5 <sup>th</sup> percentile	0.00%	0.00%	0.00%	0.00%	0.00%
•	Min	0.00%	0.00%	0.00%	0.00%	0.00%

Clinical sites evaluable da		Clinical sites within the plausibility limits			
Number	%	Number	%		
121	100.00%	85	70.25%		

#### Comments:

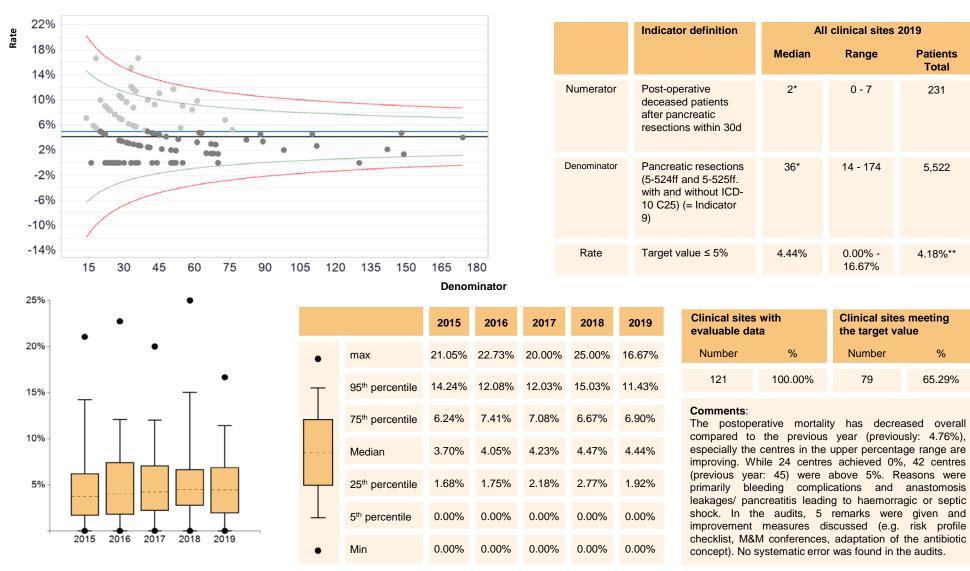
The rate of intervention-requiring postoperative wound infections overall again increased slightly compared to the previous year. 23 centres requiring justification recorded no patients in the numerator; as in the previous year, 13 were above 10%. These explained their result with a generous indication for revision as well as (partly due to the complexity of the intervention) increased rates of anastomotic leackages, fistulas, etc. No systematic errors were identified in the audits.

\*The medians for numerator and population do not refer to an existing Centre but indicate the median of all cohort numerators and the median of all cohort denominators.

\*\* Percentage of centre patients who were treated according to the indicator



### 12. Post-operative mortality



\*The medians for numerator and population do not refer to an existing Centre but indicate the median of all cohort numerators and the median of all cohort denominators.



## 13. Local R0 resections pancreas (GL QI 1)

Rate			Indicator definition	All clin	nical sites 20	19
100%				Median	Range	Patient
90%						s Total
80%	Median 79,17%	Numerator	Local R0 resections	14*	3 - 61	2,078
70%			pancreas after completion		0 01	2,010
60%			of surgical therapy			
50%						
	Begründungspflicht < 40%	-				
30%		Denominator	Surgical primary cases pancreas (5-524ff. 5-525ff	18*	4 - 69	2,693
			only with ICD-10 C25) (=			
20%			Indicator 8)			
10%						
0	25 50 75 100	Rate	Mandatory statement of	79.17%	38.89% -	77.16
	121 clinical sites		reasons*** < 40%		100%	%**
	Begründungspflicht = mandatory statement of reasons					

100%	• • • • • +
90% -	
80% -	
70% -	
60% -	$\top$ $\top$ $\mid$ $\top$ $\mid$
50% -	$\perp$ $\perp$ $\perp$ $\perp$ $\perp$
40% -	
30% -	
20% -	•
10% -	
+	2015 2016 2017 2018 2019

		2015	2016	2017	2018	2019
•	max	100%	100%	100%	100%	100%
Т	95 <sup>th</sup> percentile	<mark>91.67%</mark>	93.26%	94.27%	96.74%	100%
	75 <sup>th</sup> percentile	<mark>84.62%</mark>	84.62%	85.71%	83.61%	87.50%
	Median	<mark>73.91%</mark>	75.00%	75.00%	75.00%	79.17%
	25 <sup>th</sup> percentile	<mark>63.69%</mark>	64.71%	66.67%	64.22%	66.67%
$\perp$	5 <sup>th</sup> percentile	<mark>46.67%</mark>	50.00%	<mark>53.26%</mark>	<mark>51.97%</mark>	53.33%
•	Min	<mark>15.38%</mark>	35.00%	36.36%	37.50%	38.89%

Clinical sites evaluable da		Clinical sites meeting the target value			
Number	%	Number	%		
121	100.00%	120	99.17%		

#### Comments:

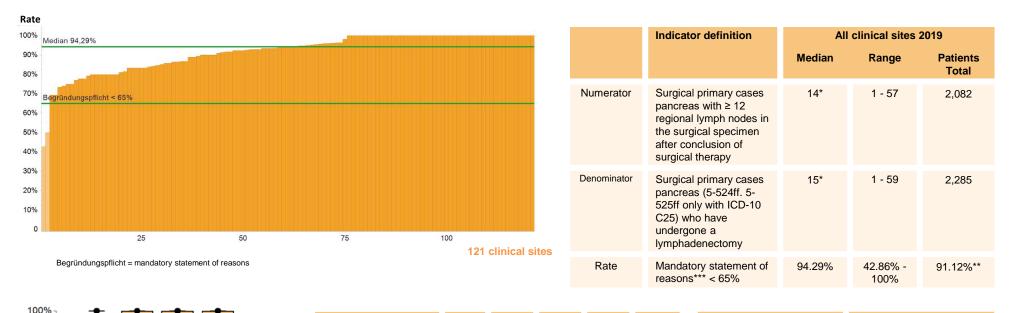
The R0 rate continues the positive trend of the past years. The ratio is thus still very well implemented in the centres. As in the previous year, 1 centre is just below 40% (different centre than in the previous year). The reason for this was that the frozen sections made intraoperatively were free of tumour tissue at the sedimentation margins, but R1/RX was found postoperatively.

\*The medians for numerator and population do not refer to an existing Centre but indicate the median of all cohort numerators and the median of all cohort denominators.

\*\* Percentage of centre patients who were treated according to the indicator



## 14. Lymph node examination (GL QI 2)



90% -				2015	2016	2017	2018	2019
30% -		•	max		100%	100%	100%	100%
70% - 60% -	$\perp$ $\perp$	т	95 <sup>th</sup> percentile		100%	100%	100%	100%
50% -			75 <sup>th</sup> percentile		95.24%	100%	100%	100%
40% -	• •		Median		88.00%	91.67%	93.75%	94.29%
30% - 20% -			25 <sup>th</sup> percentile		77.78%	81.39%	86.67%	85.71%
10% -		$\perp$	5 <sup>th</sup> percentile		<mark>58.38%</mark>	65.81%	66.67%	75.00%
2016	2017 2018 2019	•	Min		23.08%	36.84%	35.00%	42.86%

Clinical site evaluable da		Clinical sites within the plausibility limits			
Number	%	Number	%		
121	100.00%	119	98.35%		

#### Comments:

The past years show an extremely positive development of this guideline indicator, which is now almost completely implemented in the centres. The two centres (previous year: 4) that had a justifiable low rate of operative primary cases with at least 12 removed lymph nodes explained this, among other things, by the fact that the total peripancreatic fat tissue had only contained a maximum of 8 lymph nodes. No systematic quality deficit was identified in the audits.

\*The medians for numerator and population do not refer to an existing Centre but indicate the median of all cohort numerators and the median of all cohort denominators.

\*\* Percentage of centre patients who were treated according to the indicator



Patients

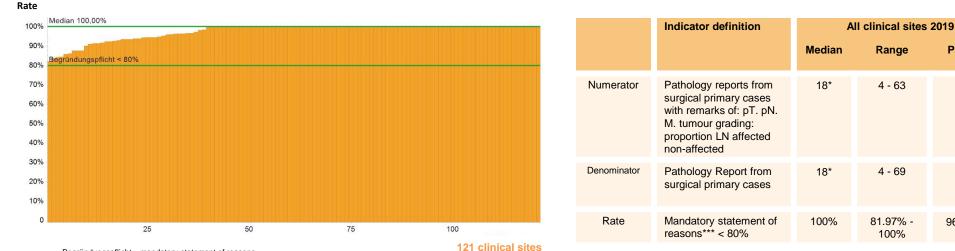
Total

2.570

2,656

96.76%\*\*

## 15. Content Pathology Report (GL QI 3)



Begründungspflicht = mandatory statement of reasons

100%	•	•	<b>_</b>	<b>_</b>	<b></b>	
90% -		$\top$	$\bot$	$\perp$	$\perp$	
80% -	•	•	٠	•	•	
70% -						
60% -						
50%-						
40% -						
30% -						
20% -						
10% -						
	2015	2016	2017	2018	2019	7
	2010	2010		2010	20.0	

		2015	2016	2017	2018	2019
•	max	100%	100%	100%	100%	100%
Т	95 <sup>th</sup> percentile	100%	100%	100%	100%	100%
	75 <sup>th</sup> percentile	100%	100%	100%	100%	100%
	Median	100%	100%	100%	100%	100%
Ц	25 <sup>th</sup> percentile	<mark>95.23%</mark>	<mark>94.44%</mark>	<mark>96.36%</mark>	96.45%	96.00%
$\perp$	5 <sup>th</sup> percentile	<mark>87.50%</mark>	85.00%	86.80%	88.54%	87.50%
•	Min	82.35%	78.57%	81.25%	80.00%	81.97%

Clinical sites evaluable dat		Clinical sites meeting the target value				
Number	%	Number	%			
121	100.00%	121	100.00%			

#### Comments:

All centres are within the plausibility limits with regard to complete reports of findings in primary surgical cases. The guideline indicator is thus implemented very well in the centres. 82 centres were able to consistently present complete reports of findings.

\*The medians for numerator and population do not refer to an existing Centre but indicate the median of all cohort numerators and the median of all cohort denominators.

\*\* Percentage of centre patients who were treated according to the indicator

# 16. Adjuvant chemotherapy (GL QI 4)

Rate

100% 90%

> 80% 70%

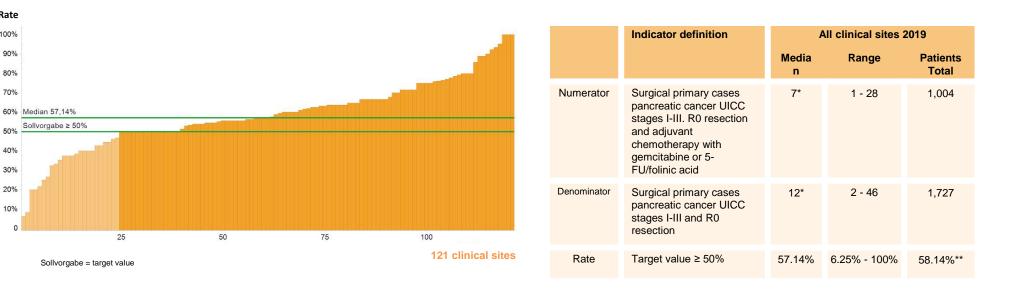
50%

40%

30% 20%

10%

0



100%	• • + + •							
90% -	$\top \top$			2015	2016	2017	2018	2019
80% -		•	max	100%	100%	100%	100%	100%
70% - 60% -		Т	95 <sup>th</sup> percentile	<mark>88.75%</mark>	88.69%	100%	100%	90.00%
50% -			75 <sup>th</sup> percentile	<mark>73.80%</mark>	73.68%	77.65%	78.07%	67.86%
40% - 30% -			Median	<mark>62.96%</mark>	59.09%	63.64%	63.07%	57.14%
20% -	⊥ • ⊥ •		25 <sup>th</sup> percentile	<mark>50.00%</mark>	50.00%	52.81%	50.00%	50.00%
10% -	• •	$\bot$	5 <sup>th</sup> percentile	<mark>28.57%</mark>	37.48%	40.00%	31.94%	26.67%
+	2015 2016 2017 2018 2019	•	Min	12.50%	15.38%	23.81%	0.00%	6.25%

Clinical sites evaluable da		Clinical sites meeting the target value			
Number %		Number	%		
121	100.00%	97	80.17%		

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#### Comments:

The median and overall rate have fallen compared to the previous year. With 24 centres, 9 more than in the previous year failed to meet the target. Patient refusal, poor general condition, old age, comorbidities and death before the start of chemotherapy were the dominant reasons that could be plausibilised in the audits. Some patients also received alternative therapy regimens (especially FOLFIRINOX in case of progression), for others chemotherapy was administered close to home, which is why further information was missing. The centres were advised to ask the doctor who continued treatment or the cancer registries if necessary.

\*The medians for numerator and population do not refer to an existing Centre but indicate the median of all cohort numerators and the median of all cohort denominators.



# 17. Palliative chemotherapy (GL QI 5)

Rate								
100%					Indicator definition	AI	clinical sites	2019
90%						Median	Range	Patient
80%								Total
70%	Median 68,42%			Numerator	Primary cases with	13*	1 - 66	1,763
60%					palliative chemotherapy			.,
50%								
40%				Denominator	Primary cases with	19*	1 - 78	2,691
30% -	Begründungspflicht < 30%				pancreatic cancer UICC stages III (palliative			
20%		stages in (paniative situation) and IV and						
10%					ECOG 0-2 (without NET and NEC)			
0					,			
	25 50 Begründungspflicht = mandatory statement of reasons	75 1	00 121 clinical sites	Rate	Mandatory statement of reasons*** < 30%	68.42%	18.18% - 100%	65.51%**

100%	<u>●</u> ● <del>↑</del> <del>↑</del> <del>↑</del>
90% -	
80% -	
70% -	
60% -	
50%-	
40% -	
30% -	•
20% -	• • •
10% -	
+	2015 2016 2017 2018 2019

		2015	2016	2017	2018	2019
•	max	100%	100%	100%	100%	100%
Т	95 <sup>th</sup> percentile	<mark>95.87%</mark>	<mark>94.57%</mark>	100%	100%	100%
	75 <sup>th</sup> percentile	82.09%	<mark>81.08%</mark>	80.89%	83.33%	80.77%
	Median	<mark>70.59%</mark>	<mark>70.59%</mark>	64.86%	70.00%	68.42%
	25 <sup>th</sup> percentile	<mark>52.94%</mark>	<mark>55.00%</mark>	50.83%	56.72%	55.00%
$\bot$	5 <sup>th</sup> percentile	<mark>30.85%</mark>	<mark>33.33%</mark>	35.78%	38.05%	38.10%
•	Min	0.00%	25.00%	21.43%	22.22%	18.18%

Clinical sites evaluable dat		Clinical sites within the plausibility limits				
Number	%	Number	%			
121	100.00%	119	98.35%			

#### Comments:

The wide range of results of the centres remains, although only 2 of them (previous year: 3) fall below the 30% mark and thus fall under the obligation to give reasons. In the specific cases, the patients had refused chemotherapy, were in too poor a general condition or had died before starting therapy.

\*The medians for numerator and population do not refer to an existing Centre but indicate the median of all cohort numerators and the median of all cohort denominators

\*\* Percentage of centre patients who were treated according to the indicator.

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