

Annual Report 2020

of the Certified Lung Cancer Centres

Audit year 2019 / Indicator year 2018



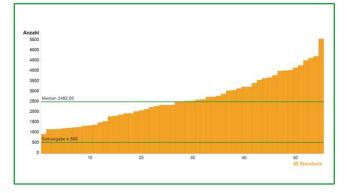
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	Indicator definition	All clinical	sites 2014
		Median	Range
Numerator	Primary cases with stages IB-IIIB after surgical therapy that were presented at the tumour conference	73*	28 - 256
Denominator	Primary cases with stages IB-IIIB after surgical therapy	76*	33 - 266
Rate	Target value ≥ 90%	97.30%	59.57% - 100%



Quallity 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 of the guidelines programme oncology. Further information: www.leitlinienprogramm-onkologie.de

The quality indicators (QI's) refer to version 1.0 of the S3-LL for prevention, diagnosis, therapy and aftercare of lung cancer (2018).

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.

The column Patients Total shows the sum of all patients treated according to the QI and the corresponding quota.

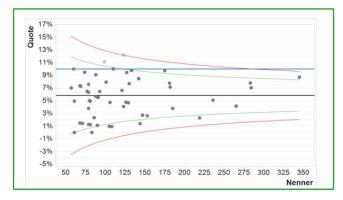
Diagram:

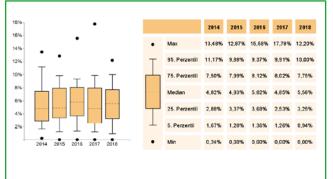
The x-axis indicates the number of Centres, the y-axis gives the values in percent or number (e.g. primary cases). The target value is depicted as a horizontal green line. The median, which is also depicted as a green horizontal line, divides the entire group into two equal halves.

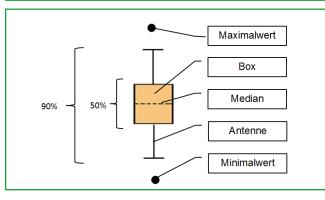
Certificatior

General information









Funnel plots:

The funnel plots indicate the ratio of the number of patients included and the indicator result for the indicators, which 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 center. The target value 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 value), the red dotted lines the 99.7% confidence intervals (3 standard deviations of the mean value).

Cohort development:

The cohort development in the years 2014, 2015, 2016, 2017 and 2018 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 90th percentile area/range. The extreme values are depicted here as dots.





	31.12.2019	31.12.2018	31.12.2017	31.12.2016	31.12.2015	31.12.2014
Ongoing procedures	4	8	3	5	2	2
Certified centres	59	52	49	45	42	38
Certified clinical sites	75	66	63	53	49	44
Lung cancer centres 1 clinical site	48	42	39	37	35	32
2 clinical sites	7	7	7	8	7	6
3 clinical sites	3	2	2	0	0	0
4 clinical sites	1	1	1	0	0	0

Included certified sites



	31.12.2019	31.12.2018	31.12.2017	31.12.2016	31.12.2015	31.12.2014
Centres included in the Annual Report	55	50	46	42	41	37
Equivalent to	93.2%	96.2%	93.9%	93.3%	97.6%	97.4%
Primary cases total*	21,364	19,361	18,483	17,343	16,362	14,623
Primary cases per centre (mean)*	388.4	387.2	401.8	412.9	399.1	395.2
Primary cases per centre (median)*	338.0	335.5	344	351	348	329

* The figures refer to all certified centres in the Annual Report.

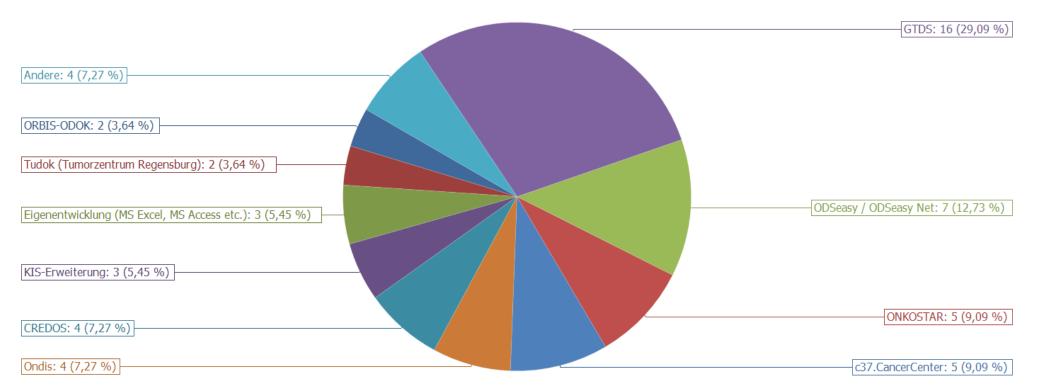
This Annual Report looks at the Lung Cancer Centres in the Certification System of the German Cancer Society. The indicator sheet is the basis for the diagrams.

The Annual Report contains the data of 55 of the 59 Lung Cancer Centres. 4 Lung Cancer Centres, certified for the first time in 2019, are not included (data depiction of a full calendar year is not mandatory for initial certifications). In all 59 Cancer Centres a total amount of 22,101 patients has been treated. <u>www.oncomap.de</u> provides an updated overview of all certified centres.

The indicators published here refer to the indicator year 2018. They are the assessment basis for the audits conducted in 2019.

Tumour documentation systems in the Centre's clinical sites



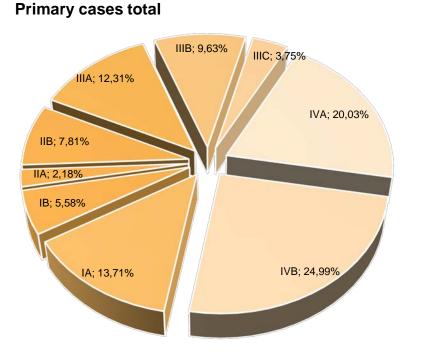


Legend:	
Other	Systems only used at one clinical site

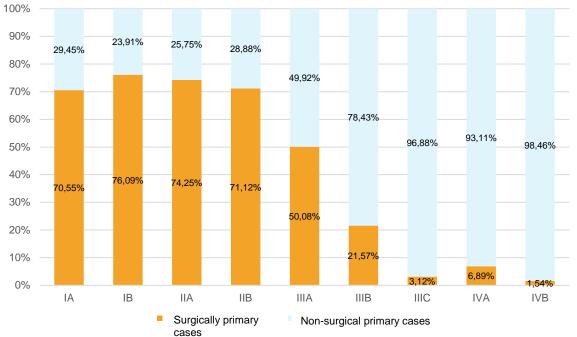
The details on the tumour documentation system were taken from the EXCEL annex to the Data Sheet (spreadsheet basic data). It is not possible to depict several systems. In many cases support is provided by the cancer registers or there may be a direct connection to the cancer register via a specific tumour documentation system.

Basic data – Stage distribution primary cases lung carcinoma





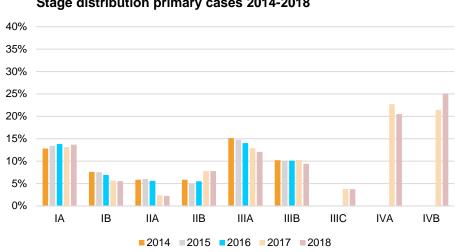
Surgical / non-surgical primary cases



	AI	IB	IIA	IIB	IIIA	IIIB	IIIC	IVA	IVB	Total
Surgical primary cases with anatomical lung resection	2,067 (70.55%)	907 (76.09%)	346 (74.25%)	1,187 (71.12%)	1,317 (50.08%)	444 (21.57%)	25 (3.12%)	295 (6.89%)	82 (1.54%)	6,670
Non-surgical primary cases	863 (29.45%)	285 (23.91%)	120 (25.75%)	482 (28.88%)	1,313 (49.92%)	1,614 (78.43%)	777 (96.88%)	3,984 (93.11%)	5,256 (98.46%)	14,694
Primary cases total	2,930 (13.71%)	1,192 (5.58%)	466 (2.18%)	1,669 (7.81%)	2,630 (12.31%)	2,058 (9.63%)	802 (3.75%)	4,279 (20.03%)	5,338 (24.99%)	21,364 (100%)

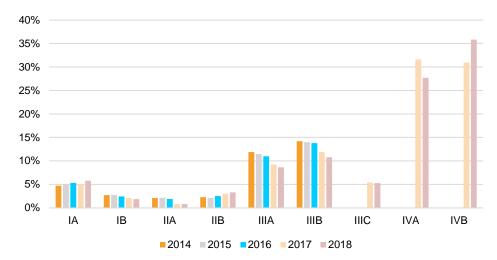


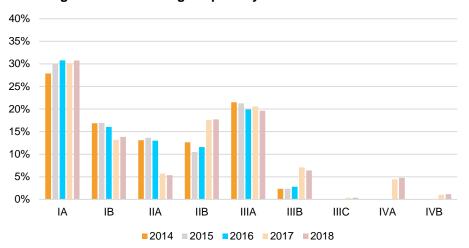
Basic data – Development 2014-2018



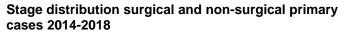
Stage distribution primary cases 2014-2018

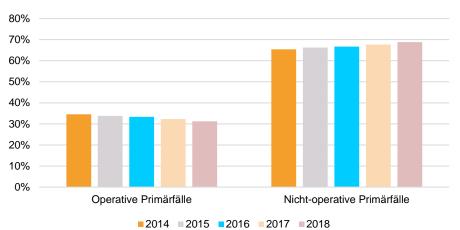






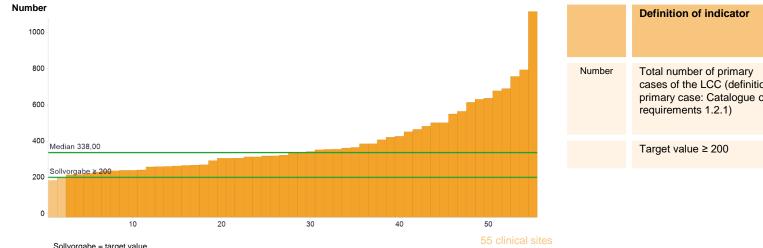
Stage distribution surgical primary cases 2014-2018





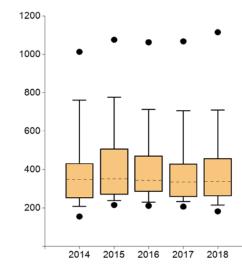
1. Primary cases of the LCCC





	Definition of indicator All clinical sites 2018					
		Median	Range	Patients Total		
Number	Total number of primary cases of the LCC (definition primary case: Catalogue of requirements 1.2.1)	338	183 – 1,115	21,364		
	Target value ≥ 200					

Sollvorgabe = target value



		2014	2015	2016	2017	2018
٠	Max	<mark>1,013.00</mark>	1,076.00	1,063.00	<mark>1,068.00</mark>	1,115,00
Т	95 th percentile	761.00	777.00	713.50	707.40	709.80
	75 th percentile	433.00	508.50	472.25	429.50	458.00
	Median	348.00	351.00	344.00	335.50	338.00
	25 th percentile	251.00	270.75	285.25	258.50	262.50
\perp	5 th percentile	209.00	239.15	231.00	233.80	215.40
•	Min	156.00	216.00	212.00	207.00	183.00

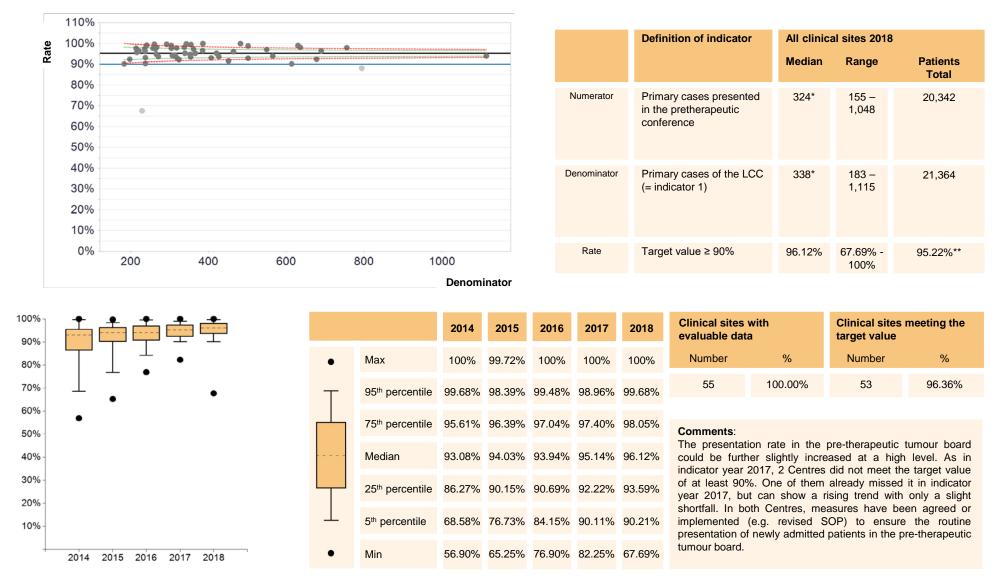
Clinical sites evaluable dat		Clinical sites meeting the target value					
Number	%	Number	%				
55	100,00%	53	96.36%				

Comments:

The median and the 25th and 95th percentiles of the primary case numbers have increased compared to indicator year 2017. Nevertheless, a slight downward trend in the primary case number has been observed in recent years. 2 Centres failed to meet the target value of at least 200 primary cases in the surveillance audits in indicator year 2018 (previous year: 100% compliance). In one case the target value was missed only very narrowly and for the first time. In another case, it was agreed in the audit to optimise referral management and information policy. A comparison of the primary cases in the German certified cancer Centres (20,784 of 21,364) with the total incidence (Germany: 57,459, www.krebsdaten.de, data as of 31.07.2019) shows that 36.2% of patients newly diagnosed with a malignant tumour of the lung were treated in a certified Centre (previous year: 35.8%).

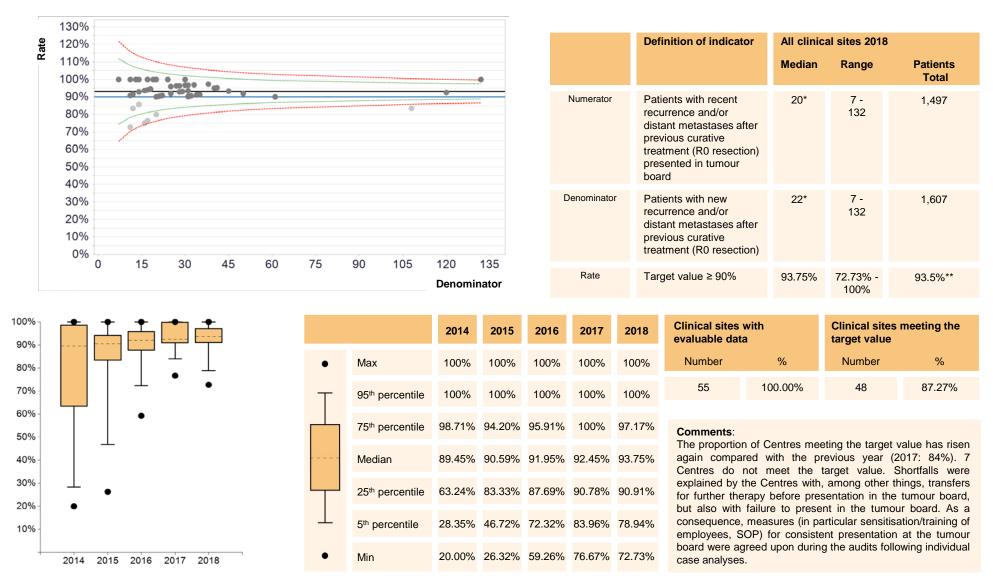


2a. Pretherapeutic tumour conference



* The median for numerator and denominator does not refer to an existing center, but reflects the median of all numerators of the cohort and the median of all denominators of the cohort. ** Percentage of total patients treated in centers according to the numerator.

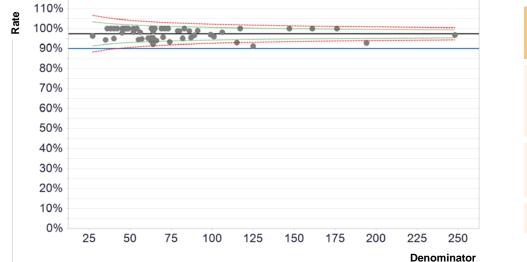
2b. Presentation of new recurrence and/or distant metastases the tumour conference



* The median for numerator and denominator does not refer to an existing center but reflects the median of all numerators of the cohort and the median of all denominators of the cohort. ** Percentage of total patients treated in centers according to the numerator. Certification

3. Tumour conference after surgical treatment of primary cases stages IB-IIIB





	Definition of indicator	All clinical sites 2018					
		Median	Range	Patients Total			
Numerator	Primary cases with stages IB-IIIB after surgical therapy that were presented at the tumour conference	62*	26 - 240	4,091			
Denominator	Primary cases with stages IB-IIIB after surgical therapy with anatomic lung resection	64*	27 - 248	4,201			
Rate	Target value ≥ 90%	98.73%	91.20% - 100%	97.38%**			

100% - 90% -				2014	2015	2016	2017	2018	Clinical sites evaluable dat		Clinical target va
80% -	- • •	•	Max	100%	100%	100%	100%	100%	Number	%	Numbe
70% -		Т	95 th percentile	100%	100%	100%	100%	100%	55	100.00%	55
60% -	•		75 th percentile	100%	99.04%	100%	100%	100%			
50%-				10070	55.0470	10070	10070	10070	Comments:		
40% -			Median	<mark>97.30%</mark>	<mark>97.99%</mark>	<mark>97.96%</mark>	<mark>97.88%</mark>	98.73%	by the Centre	years, this indica s. While in indica	tor year 20
30% -		Ч	25 th percentile	<mark>93.86%</mark>	<mark>95.39%</mark>	95.86%	<mark>95.24%</mark>	95.28%	missed the tai at least 90% of	nted at the	
20% -										py in stages IB- that the numbe	
10% -		-	5 th percentile	<mark>86.75%</mark>	<mark>92.27%</mark>	<mark>92.39%</mark>	<mark>92.34%</mark>	92.96%	deviated from	the target value ually reduced to a	, which wa
1	2014 2015 2016 2017 2018	•	Min	<mark>59.57%</mark>	<mark>85.23%</mark>	<mark>81.45%</mark>	<mark>85.36%</mark>	91.20%	2 John grad		

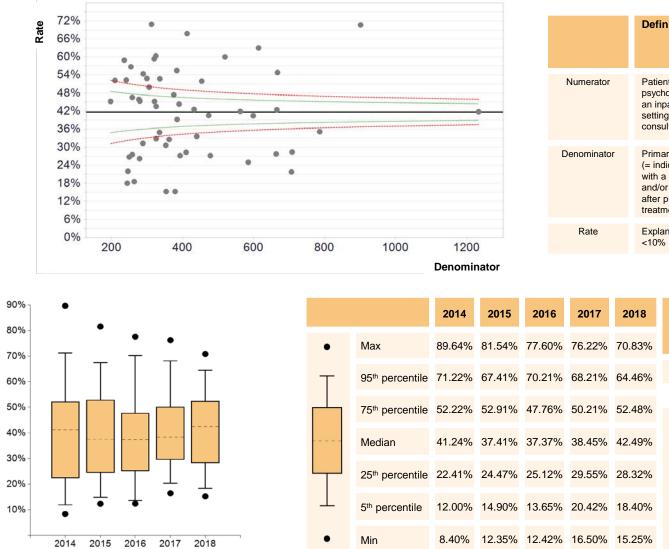
3	Clinical sites with evaluable data		Clinical sites target value	meeting the	
6	Number	%	Number	%	
<i>'</i> 0	55	100.00%	55	100.00%	

cellently implemented 2017 one Centre still achieved the quota of ne tumour board after elopments in recent entres that originally was quite significant,

* The median for numerator and denominator does not refer to an existing center, but reflects the median of all numerators of the cohort and the median of all denominators of the cohort. ** Percentage of total patients treated in centers according to the numerator.



4. Psycho-oncological care



	Definition of indicator	All clinical sites 2018			
		Median	Range	Patients Total	
Numerator	Patients who received psycho-oncological care in an inpatient or outpatient setting (duration of consultation ≥ 25 min)	148*	44 - 637	9,579	
Denominator	Primary cases of the LCC (= indicator 1) + patients with a new recurrence and/or remote metastasis after previous curative treatment	354*	197 – 1,235	22,971	
Rate	Explanation mandatory*** <10% and >60%	42.49%	15.25% - 70.83%	41.70%**	

Clinical sites with evaluable data		Clinical sites meeting the target value		
Number	%	Number	%	
55	100.00%	50	90.91%	

Comments:

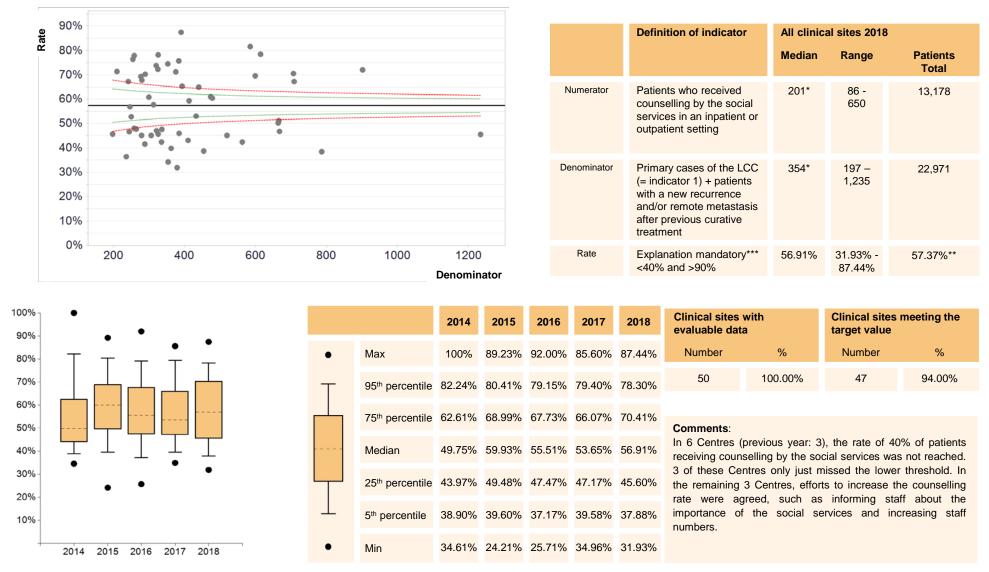
The median of the psycho-oncological presentation rate continued to rise slightly compared to the previous year. Overall, the trend of recent years towards a lower dispersion of the indicator continued. All Centres outside of the plausibility limits had presentation rates of over 60% in indicator year 2018 and thus only had to explain a particularly high rate of psycho-oncological care. In these Centres, psycho-oncological care was often provided at a very low threshold, with high personnel expenses and in close coordination with the other specialties.

* The median for numerator and denominator does not refer to an existing center, but reflects the median of all numerators of the cohort and the median of all denominators of the cohort.

** Percentage of total patients treated in centers according to the numerator.



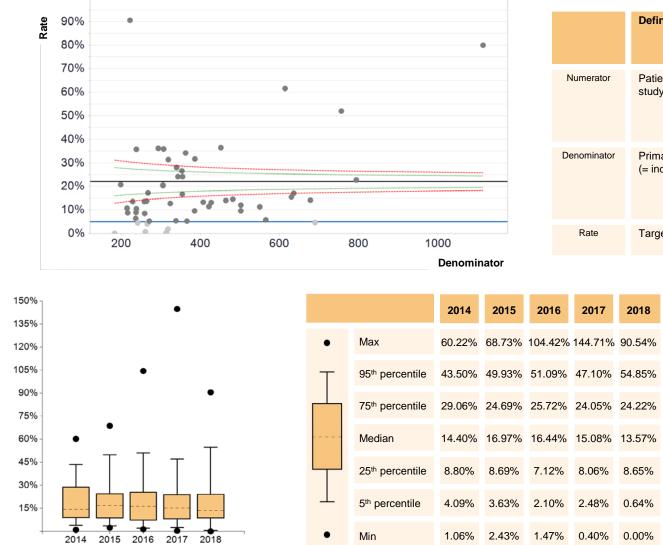
5. Counselling social services



* The median for numerator and denominator does not refer to an existing center, but reflects the median of all numerators of the cohort and the median of all denominators of the cohort.

** Percentage of total patients treated in centers according to the numerator.

6. Study participation



	Definition of indicator	All clinica	All clinical sites 2018		
		Median	Range	Patients Total	
Numerator	Patients included in a study	54*	0 - 892	4,704	
Denominator	Primary cases of the LCC (= indicator 1)	338*	183 – 1,115	21,364	
Rate	Target value ≥ 5%	13.57%	0.00% - 90.54%	22.02%**	

Clinical sites with evaluable data		Clinical sites meeting the target value			
Number	%	Number	%		
55	100.00%	47	85.45%		

Comments:

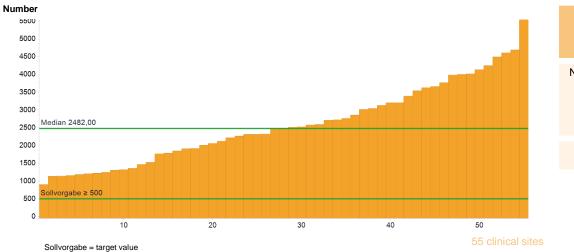
The median of this indicator continues to decline. The further decreasing rates of study participation of the Centres in the 5th percentile are striking. 8 Centres (previous year: 3) do not reach the target value, 3 of which have rates below 1%. The Centres mainly cited personnel changes and the unanticipated early termination of studies already initiated as the reasons for failing to meet the target value. To remedy the deviations, it was agreed, among other things, to systematically address patients through personnel and organisational measures. In some cases, it was agreed to participate in registry studies in which patients can be continuously enrolled.

* The median for numerator and denominator does not refer to an existing center, but reflects the median of all numerators of the cohort and the median of all denominators of the cohort. ** Percentage of total patients treated in centers according to the numerator.

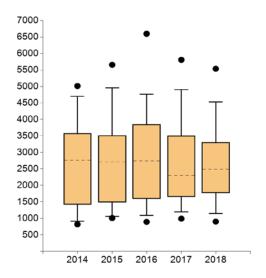


7. Flexible bronchoscopy





	Definition of indicator	All clinica	All clinical sites 2018			
		Median	Range	Patients Total		
Number	Flexible bronchoscopies for each service provider	2,482	904 – 5,535	142,491		
	Target value ≥ 500					



		2014	2015	2016	2017	2018
	Max	<mark>5,014.00</mark>	<mark>5,657.00</mark>	<mark>6,597.00</mark>	5,807.00	<mark>5,535,00</mark>
-	95 th percentile	<mark>4,701.00</mark>	<mark>4,953.85</mark>	<mark>4,761.00</mark>	<mark>4,009.95</mark>	4,530,60
	75 th percentile	<mark>3,581.00</mark>	<mark>3,515.00</mark>	<mark>3,846.50</mark>	3,507.25	<mark>3,300,00</mark>
	Median	<mark>2,764.00</mark>	2,705.50	<mark>2,742.00</mark>	2,301.00	<mark>2,482,00</mark>
	25 th percentile	1,421.00	1,482.50	1,592.50	1,625.50	1,775,50
-	5 th percentile	912.00	1,060.75	1,083.00	1,199.75	1,148,00
	Min	822.00	1,009.00	896.00	991.00	904,00

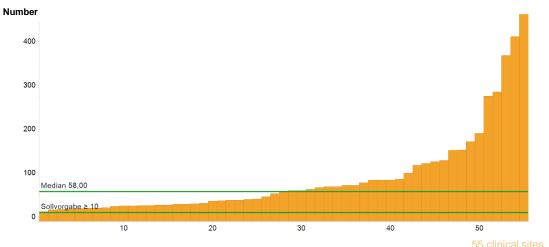
Clinical sites with evaluable data		Clinical sites meeting the target value		
Number	%	Number	%	
55	100.00%	55	100.00%	

Comments:

As in previous years, all certified Centres very clearly meet the target value of at least 500 flexible bronchoscopies.

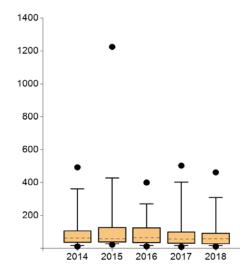
8. Interventional bronchoscopy (thermal procedures and stenting)





	Definition of indicator	All clinical sites 2018		
		Median	Range	Patients Total
Number	Interventional bronchoscopic procedures for tumour closure or stenosis (thermal procedures and stent placement) per service provider (OPS: 5-319.14, 5- 319.15, 5-320.0)	58	12 - 462	4,841
	Target value ≥ 10			

Sollvorgabe = target value



		2014	2015	2016	2017	2018
•	Max	493.00	<mark>1224.00</mark>	400.00	503.00	462.00
Т	95 th percentile	361.00	427.80	270.75	403.30	309.90
	75 th percentile	109.00	129.00	125.75	101.50	93.00
	Median	61.00	57.50	63.50	56.50	58.00
	25 th percentile	36.00	38.50	33.50	30.75	27.00
\perp	5 th percentile	17.00	29.05	17.00	18.00	17.70
•	Min	12.00	23.00	13.00	10.00	12.00

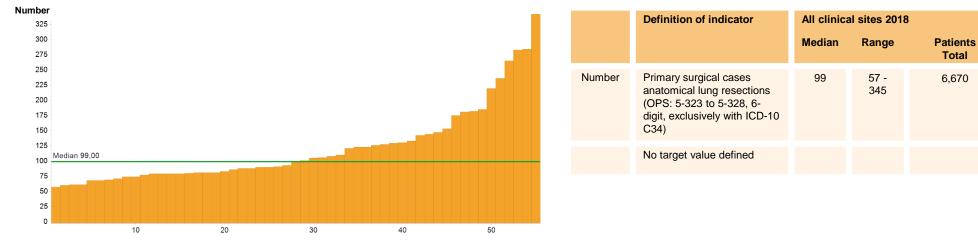
Clinical sites with evaluable data		Clinical sites meeting the target value		
Number	%	Number	%	
55	100.00%	55	100.00%	

Comments:

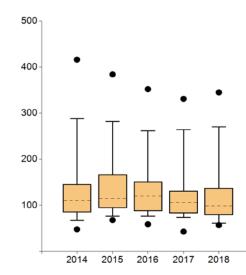
While in indicator year 2017 one Centre still missed the target value, it was reached by all Centres in 2018. Overall, a slightly declining number (previous year: 5,043) of interventional bronchoscopic procedures can be seen in comparison with previous years.

9a. Lung resections – surgical primary cases





55 clinical sites



		2014	2015	2016	2017	2018
•	Max	416.00	384.00	352.00	331.00	345.00
Т	95 th percentile	288.00	282.15	261.75	264.05	270.40
	75 th percentile	146.00	166.75	151.25	131.50	137.50
	Median	111.00	115.00	120.00	106.00	99.00
	25 th percentile	85.00	94.00	87.25	83.25	79.00
\perp	5 th percentile	68.00	76.05	76.25	73.90	61.00
•	Min	48.00	68.00	59.00	43.00	57.00

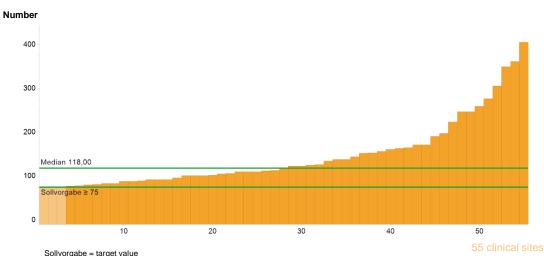
Clinical sites with evaluable data		Clinical sites target value	meeting the
Number	%	Number	%
55	100.00%		

Comments:

The number of primary cases operated on in Certified Lung Cancer Centres increased by 6.7% compared to the previous year. The number of Certified Lung Cancer Centres increased by 10% over the same period. At the same time, the median falls below 100 operated primary cases. 6 of the 15 Centres within the 25th percentile (i.e. a maximum of 79 operated primary cases) were certified for the first time in 2017 and 2018 respectively.

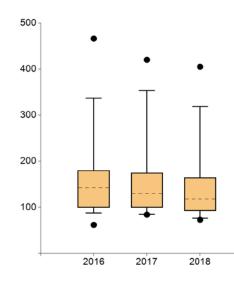


9b. Lung resections – surgical expertise



	Definition of indicator	All clinical sites 2018					
		Median	Range	Patients Total			
Number	Operative expertise - number of anatomical resections (OPS: 5-323 to 5- 328, for each ICD-10 C diagnosis, incl. ICD-10 C34)	118	73 - 405	8,031			
	Target value ≥ 75						

Sollvorgabe = target value



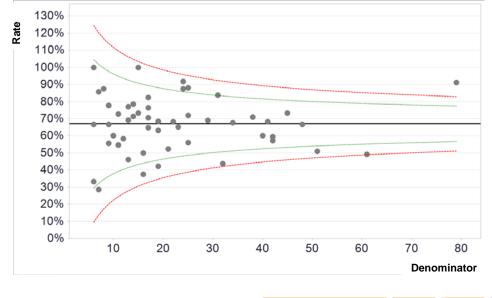
		2014	2015	2016	2017	2018
•	Max			466.00	420.00	405.00
Т	95 th percentile			337.00	353.80	318.20
	75 th percentile			180.00	174.75	164.00
	Median			142.50	130.00	118.00
	25 th percentile			99.25	99.25	92.00
\perp	5 th percentile			87.25	85.00	76.10
•	Min			62.00	84.00	73.00

Clinical sites with evaluable data		Clinical sites meeting the target value					
Number	%	Number	%				
55	100.00%	52	94.55%				

Comments:

After a 100% implementation in indicator year 2017, 3 Centres fell slightly short of the target value of at least 75 anatomical lung resections for all malignant lung tumours in 2018. These Centres were in the surveillance audit (the proof of case numbers for re-certification in the re-audit - every 3 years - is required). The German certified Centres performed a total of 7,697 interventions, which corresponds to 56.6% (previous year: 49.9%) of the anatomical lung resections performed in Germany (N=13,592, according to hospital statistics of the Federal Statistical Office).

10. Ratio of broncho-/ angioplasty operations to pneumonectomies



100% -	•			2014	2015	2016	2017	2018
90% -	T T	•	Max					100%
80% -		•	max					10070
70% -		Т	95. Perzentil					91.30%
60% -								70 700/
50%-			75. Perzentil					76.70%
40% -			Median					68.18%
30% -	•		25. Perzentil					56.57%
20% -								
10% -		-	5. Perzentil					40.73%
-	2018	•	Min					28.57%

	Definition of indicator	All clinical sites 2018						
		Median	Range	Patients Total				
Numerator	Primary cases with bronchoplasty / angioplasty procedures	12*	2 - 72	815				
Denominator	Primary cases with pneumonectomy and primary cases with broncho-/angioplasty	17*	6 - 79	1,216				
Rate	Explanation mandatory*** <50	68,18%	28,57% - 100%	67.02%**				

	Clinical sites evaluable dat		Clinical sites target value	meeting the
	Number	%	Number	%
6	55	100.00%	48	87.27%

Comments:

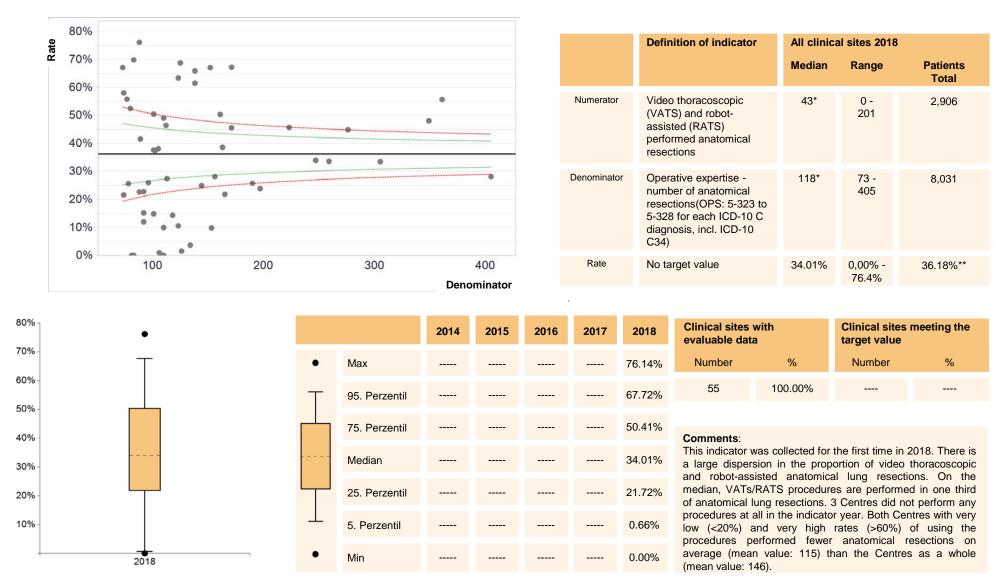
From indicator year 2018 onwards, this indicator summarises the former indicators of the proportion of pneumonectomies and bronchoplastic/angioplastic operations as a proportion of lung resections. 7 Centres had to give a reason why their quota was shifted in favour of pneumonectomies. A good half of these Centres were able to give plausible reasons to the auditors in the context of an individual case analysis, e.g. pneumonectomy when the tumour melted in or the impossibility of systemic therapy due to an inflammatory situation.

* The median for numerator and denominator does not refer to an existing center, but reflects the median of all numerators of the cohort and the median of all denominators of the cohort.

** Percentage of total patients treated in centers according to the numerator.



11. Videothoracoscopic (VATS) and robot-assisted (RATS) anatomical resections



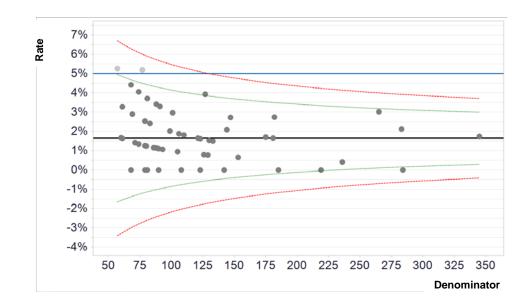
* The median for numerator and denominator does not refer to an existing center, but reflects the median of all numerators of the cohort and the median of all denominators of the cohort.

** Percentage of total patients treated in centers according to the numerator.

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12. 30d Lethality after resections



	Definition of indicator	All clinical sites 2018					
	Indicator	Median	Range	Patients Total			
Numerator	Post-operative deceased patients after resection within 30d	2*	0 - 8	110			
Denominator	Primary cases with lung resection per department (= indicator 9a)	99*	57 - 345	6,670			
Rate	Target value ≤ 5%	1.65%	0.00% - 5.26%	1.65%**			

7%-	• •			2014	2015	2016	2017	2018
6% -		•	Max	6.94%	5.00%	4.49%	6.67%	5.26%
5% -	$\top \stackrel{\bullet}{=} \bullet$	Т	95 th percentile	5.00%	4.53%	4.12%	4.13%	4.16%
4%-			75 th percentile	2.94%	2.77%	2.50%	3.23%	2.74%
3% -			Median	1.69%	2.02%	1.65%	1.64%	1.65%
2%-		L_	25 th percentile	0.83%	1.18%	1.01%	0.89%	0.87%
1%-		\perp	5 th percentile	0.00%	0.00%	0.11%	0.00%	0.00%
	2014 2015 2016 2017 2018	•	Min	2014	2015	2016	0.00%	0.00%

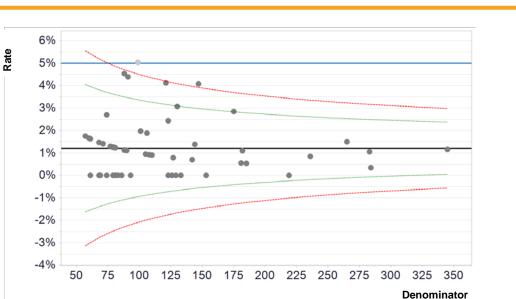
	Clinical sites with evaluable data		meeting the		
Number	%	Number	%		
50	100.00%	53	93-36%		

Comments:

The target value of a maximum of 5% of patients who die within 30 days of surgery continued to be met very well. 2 Centres slightly exceed this rate. 1 Centre could explain the increased rate by the fact that the deaths were not due to surgery (e.g. suicide). The remaining Centre was asked, after detailed case analysis, to take measures to avoid postoperative complications in the future.

* The median for numerator and denominator does not refer to an existing center, but reflects the median of all numerators of the cohort and the median of all denominators of the cohort. ** Percentage of total patients treated in centers according to the numerator.

13. Post-operative bronchial stump/anastomosis insufficiency



	Definition of indicator	All clinical sites 2018						
		Median	Range	Patients Total				
Numerator	Post-operative bronchial stump/anastomosis insufficiency	1*	0 - 6	81				
Denominator	Primary cases with lung resection per department (= indicator 9a)	99*	57 - 345	6,670				
Rate	Target value ≤ 5%	1.11%	0.00% - 5.05%	1.21%**				

7%	•			2014	2015	2016	2017	2018	Clir eva
6%-		•	Max	4.96%	3.41%	3.57%	6.67%	5.05%	N
5% -	• •	Т	95 th percentile	4.17%	2.59%	2.77%	3.86%	4.21%	
4%-	Τ.•Τ		75 th percentile	1.47%	1.44%	1.77%	2.14%	1.58%	Con
3%-			Median	0.83%	1.01%	1.11%	1.21%	1.11%	As i prev
2%-			25 th percentile	0.00%	0.00%	0.00%	0.00%	0.00%	How
1%-		\perp	5 th percentile	0.00%	0.00%	0.00%	0.00%	0.00%	
1	2014 2015 2016 2017 2018	•	Min	0.00%	0.00%	0.00%	0.00%	0.00%	

Clinical sites evaluable dat		Clinical sites meeting the target value				
Number	%	Number	%			
55	100.00%	54	98.18%			

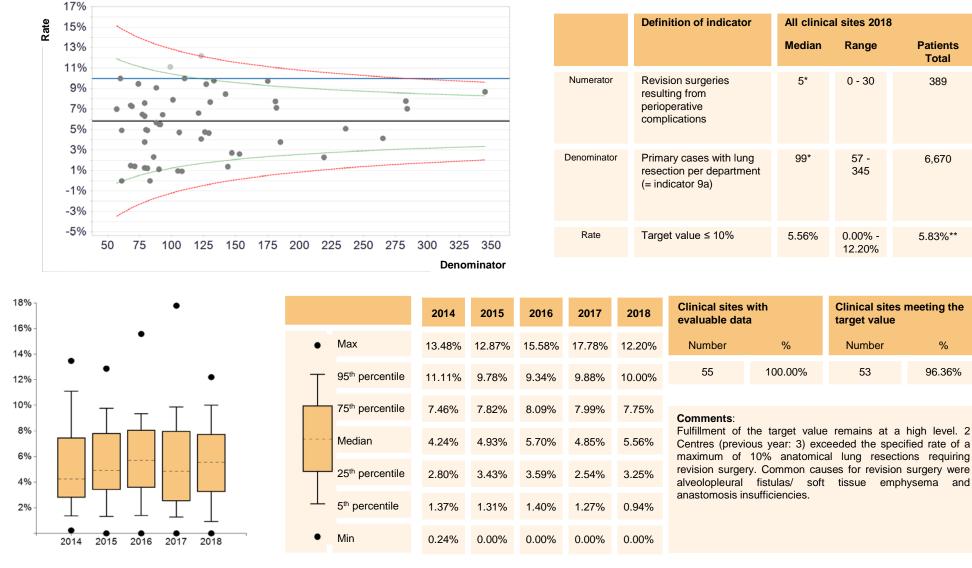
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Comments:

As in previous years, this target value is largely met. As in the previous year, only 1 Centre slightly exceeds the target value. However, in the specific case, the individual case analysis did not reveal any quality deficits.

* The median for numerator and denominator does not refer to an existing center, but reflects the median of all numerators of the cohort and the median of all denominators of the cohort. ** Percentage of total patients treated in centers according to the numerator.

14. Revision surgeries



* The median for numerator and denominator does not refer to an existing center, but reflects the median of all numerators of the cohort and the median of all denominators of the cohort. ** Percentage of total patients treated in centers according to the numerator. Certification

15. Local R0 resections in stages IA/B and IIA/B

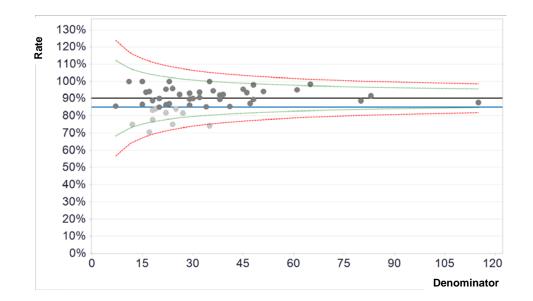
100%											Def	inition of indicat	tor	All clinica	al sites 2018	
90%														Median	Range	Patients Total
80%										Numerator	Prin	nary cases with lo	ocal	66*	36 -	4,424
70%												resections in stag 3 and IIA/B after	jes		217	
60%											con	clusion of surgica	al			
50%											the	rapy				
40%										Denominato		erated primary ca		67*	37 -	4,507
30%											rese	n anatomical lung ection in stage IA			218	
20%											and	I IIA/B				
10%											-	() · · · · · · · · · · · · · · · · · ·				
0% 25	50	75	100	125	150	175	200	225		Rate	Iar	get value ≥ 95%		98.04%	92.50% - 100%	98.16%
							Denor	ninator	_	_	_					
	- -	≜ •	3				Denor 2014	ninator 2015	2016	2017	2018	Clinical sites evaluable dat			Clinical site target value	
i		•	3	•	Мах				2016 100%	2017 100%	2018 100%		а	%		
è.≓ •		•	3	• T	Max 95 th per	rcentile	2014	2015				evaluable dat	a	%).00%	target value	%
•		∳ •	3	·	95 th per		2014 100% 100%	2015 100% 100%	100% 100%	100% 100%	100% 100%	evaluable dat Number	a		target value Number	%
•		₽ ₽	3	·			2014 100%	2015 100%	100%	100% 100%	100%	evaluable dat Number 55 Comments:	a 9 100.	0.00%	target value Number 53	% 96.36
•		£	3	•	95 th per	rcentile	2014 100% 100%	2015 100% 100%	100% 100%	100% 100% 99.83%	100% 100%	evaluable dat Number 55 Comments: As in previous this indicator v	a 100. s years, very succ	the Centr	target value Number 53 res meet the i Only 2 Centre	96.36 equirement
•		₽ ₽	3	•	95 th per	rcentile	2014 100% 100% 99.12%	2015 100% 100% 99.20%	100% 100% 99.01%	100% 100% 99.83% 98.60%	100% 100% 99.77% 98.04%	evaluable dat Number 55 Comments: As in previous this indicator v the target valu IA/B or IIA/B.	a 100. years, very succ very succ ver of at I The doi	the Centr ccessfully. least 95%	target value Number 53 res meet the i Only 2 Centre local R0 rese asons for nor	96.36 96.36 equirement es do not re ections in si a-complianc
•		₽ ₽ •	3		95 th per 75 th per Median	rcentile	2014 100% 100% 99.12% 97.59%	2015 100% 100% 99.20% 98.29%	100% 100% 99.01% 98.29%	100% 100% 99.83% 98.60% 96.98%	100% 100% 99.77% 98.04%	evaluable dat Number 55 Comments: As in previous this indicator w the target value	a 100. ; years, very succ e of at l The doi were fur ent CT risk of a	the Centr ccessfully. least 95% minant re nctional in findings, a second-	target value Number 53 es meet the i Only 2 Centre local R0 rese asons for nor operability an among other look resection	% 96.36 equirement is do not re actions in si -complianc d Rx resect things) with . In the au

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* The median for numerator and denominator does not refer to an existing center, but reflects the median of all numerators of the cohort and the median of all denominators of the cohort. ** Percentage of total patients treated in centers according to the numerator.



16. Local R0 resections in stages IIIA/B



	Definition of indicator	All clinical sites 2018					
		Median	Range	Patients Total			
Numerator	Primary cases with local R0 resections in stages IIIA/B after conclusion of surgical therapy	24*	6 - 101	1,589			
Denominator	Operated primary cases with stage IIIA/B anatomical lung resection	27*	7 - 115	1,761			
Rate	Target value ≥ 85%	90.00%	70.59% - 100%	90.23%**			

100% - 90% -				2014	2015	2016	2017	2018	Clinical site evaluable d
80% -		•	Max	100%	100%	100%	100%	100%	Number
70% -	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	т	95 th percentile	100%	<mark>99.94%</mark>	97.29%	<mark>97.58%</mark>	100%	55
60% -	•		75 th percentile	04 1 29/	05 229/	04 409/	93.70%	04 1 29/	
50%			75 th percentile	94.1270	95.52%	94.40%	93.70%	94.1270	Comments:
40% -			Median	<mark>90.91%</mark>	<mark>90.70%</mark>	<mark>89.83%</mark>	90.91%	90.00%	The degree of However, the (previous yea
30% -			25 th percentile	<mark>86.67%</mark>	<mark>85.37%</mark>	<mark>85.15%</mark>	<mark>87.50%</mark>	85.96%	significantly. In operations we
20% -									turned out to b cases, a second
10% -		-	5 th percentile	77.34%	78.26%	75.00%	79.53%	75.00%	In 4 of the 10 for failing to m
+	2014 2015 2016 2017 2018	•	Min	<mark>58.33%</mark>	<mark>68.42%</mark>	71.70%	72.41%	70.59%	increase the R for preoperativ

Clinical sites evaluable dat		Clinical sites meeting the target value				
Number	%	Number	%			
55	100.00%	45	81.82%			

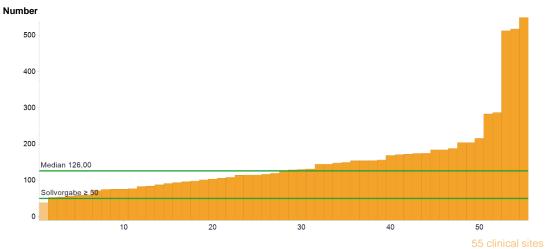
S:

of implementation of this indicator remains very good overall. ne results worsened in the 25th percentile: 10 Centres ear: 4) failed to meet the target value, in some cases In many cases, the Centres justified this by the fact that vere performed with palliative intent or that the tumour only be non-R0 resectable intraoperatively. In addition, in many cond-look resection of R1-resected patients was not feasible. 0 Centres, the audits did not identify any systematic causes meet the target value. In the remaining Centres, measures to R0 rate in the future were agreed upon, such as action plans tive evaluation and intra-year evaluations of the rate of R0 resections.

* The median for numerator and denominator does not refer to an existing center, but reflects the median of all numerators of the cohort and the median of all denominators of the cohort. ** Percentage of total patients treated in centers according to the numerator.

17. Thoracic radiotherapy





	Definition of indicator	All clinica	al sites 2018	3
		Median	Range	Patients Total
Number	Thoracic radiotherapy (not just referring to primary cases)	126	38 - 549	8,248
	Target value ≥ 50			

-	2014	2015	2016	2017	2018
100-		· 🕂	+	+	÷
200 -		L			
300-				Т	Т
400 -	•		Т		
500 -				•	•
600 -		•			
700 -]		•		

		2014	2015	2016	2017	2018
•	Max	454.00	639.00	688.00	499.00	549.00
Т	95 th percentile	394.00	271.85	452.50	335.70	354.80
	75 th percentile	199.00	181.75	170.00	175,.25	171.50
	Median	151.00	135.00	114.50	128.00	126.00
	25 th percentile	102.00	85.25	87.50	83.00	89.50
\bot	5 th percentile	54.00	63.15	52.25	53.70	56.10
•	Min	49.00	45.00	49.00	42.00	38.00

Clinical sites version of the clinic		Clinical sites meeting the target value			
Number	%	Number	%		
55	100.00%	49	89.09%		

Comments:

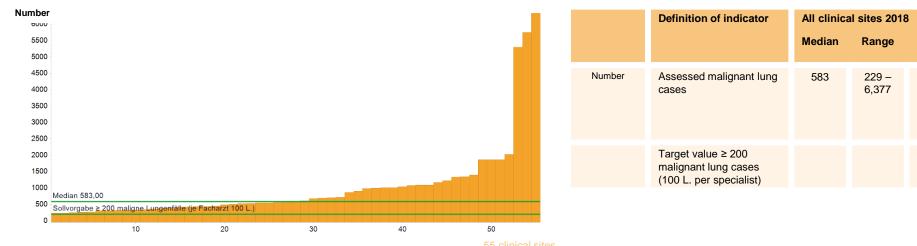
The vast majority of Centres easily reach the required minimum number of 50 thoracic radiations per year. 6 Centres (previous year: 8) fail to meet this target. 5 of these 6 Centres carry out the irradiations in a network structure, where a site-specific minimum requirement of 10 irradiation series applies and has been met. The underachieving Centre without network structure was also able to remedy the shortfall caused by a lack of equipment capacity.

18. Pathology reports

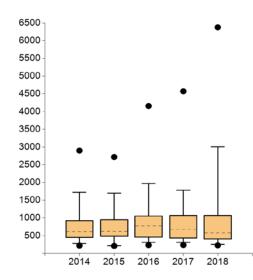


Patients Total

56,144



Sollvorgabe = target value



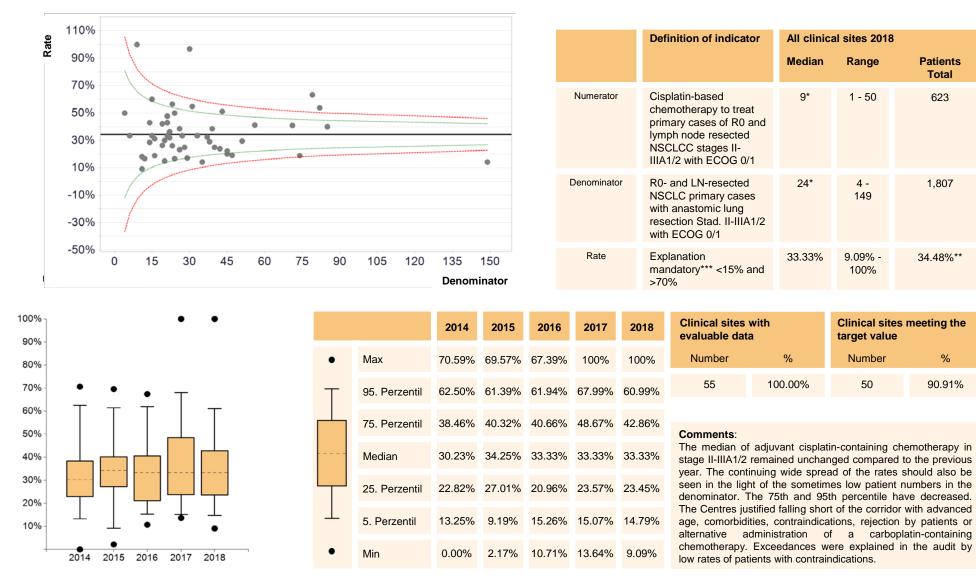
		2014	2015	2016	2017	2018
•	Max	<mark>2900.00</mark>	<mark>2718.00</mark>	<mark>4158.00</mark>	<mark>4572.00</mark>	6377.00
Т	95 th percentile	<mark>1724.00</mark>	<mark>1698.60</mark>	<mark>1976.75</mark>	<mark>1781.10</mark>	3005.50
	75 th percentile	936.00	958.00	<mark>1061.00</mark>	<mark>1074.50</mark>	1081.00
	Median	613.00	620.50	773.50	678.50	583.00
	25 th percentile	445.00	475.50	447.00	423.25	400.00
T	5 th percentile	275.00	217.55	313.00	313.75	254.00
•	Min	221.00	211.00	235.00	238.00	229.00

Clinical sites evaluable dat		Clinical sites meeting the target value				
Number	%	Number	%			
55	100.00%	55	100.00%			

Comments:

The excellent level of full implementation of this indicator by all certified Centres was maintained in indicator year 2018.

19. Adjuvant cisplatin-containing chemotherapy stages II-IIIA1/2 (GL QI 6)



* The median for numerator and denominator does not refer to an existing center, but reflects the median of all numerators of the cohort and the median of all denominators of the cohort.

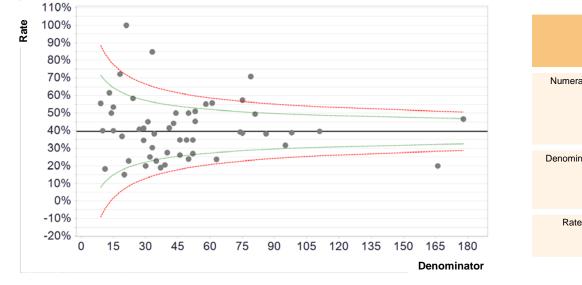
** Percentage of total patients treated in centers according to the numerator.

*** For values outside the plausibility limit(s), the centers are required to provide a justification.

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20. Combined radio-chemotherapy in stages IIIA4/IIIB/IIIC (GL QI 7)





	Denominator										
]	• • •			2014	2015	2016	2017	2018	Clinical sites evaluable da		
	т	•	Max	<mark>75.00%</mark>	100%	70.97%	100%	100%	Number		
-		Т	95 th percentile	<mark>64.00%</mark>	<mark>68.72%</mark>	<mark>67.40%</mark>	<mark>80,74%</mark>	71.29%	55		
-			75 th percentile	<mark>47.06%</mark>	<mark>50.00%</mark>	<mark>50.00%</mark>	<mark>53,55%</mark>	50,00%	0		
			Median	<mark>39.58%</mark>	40.00%	<mark>41.38%</mark>	<mark>42,08%</mark>	38,78%	Comments: The median dispersion ren		
-		Щ	25 th percentile	<mark>29.29%</mark>	<mark>33.33%</mark>	<mark>31.65%</mark>	<mark>31,77%</mark>	26,51%	the population below the rat corridor of 70		
	•	\perp	5 th percentile	<mark>22.22%</mark>	<mark>18.55%</mark>	<mark>19.75%</mark>	23,22%	18,70%	rate of comb with the sp		
+	• 2014 2015 2016 2017 2018	•	Min	<mark>14.81%</mark>	4.88%	<mark>17.12%</mark>	20,83%	15,00%	(especially: no		

	Definition of indicator	All clinica	All clinical sites 2018			
		Median	Range	Patients Total		
Numerator	Combined radio- chemotherapies for NSCLCC primary cases stages IIIA4/IIIB with ECOG 0/1	14*	2 - 83	1,033		
Denominator	NSCLC primary cases Stad. IIIA4/IIIB/IIIC with ECOG 0/1	39*	9 - 178	2,603		
Rate	Explanation mandatory*** <15% and >70%	38.78%	15.00% - 100%	39.68%**		

Clinical sites with evaluable data		Clinical sites target value	meeting the
Number	%	Number	%
55	100.00%	51	92.73%

The median of this indicator has fallen slightly, but the dispersion remains high even in view of the fact that some of the populations in the denominator are small. No Centre falls below the rate of 15%. The Centres above the plausibility corridor of 70% were able to clearly demonstrate the high rate of combined radiochemotherapy in this patient group with the specific features of the cases they treated (especially: no contraindications).

* The median for numerator and denominator does not refer to an existing center, but reflects the median of all numerators of the cohort and the median of all denominators of the cohort.

** Percentage of total patients treated in centers according to the numerator.

100% 90% 80% 70% 60% 50%

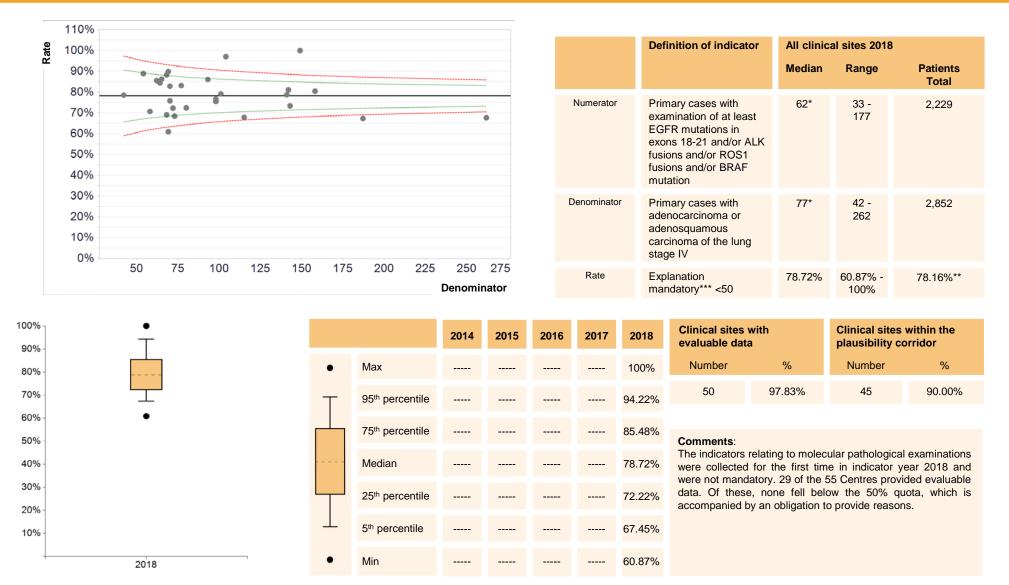
40%

30%

20%

10%

21. Molecular path. examination NSCLC Stad. IV with Adeno-Ca. o. adenosquamous Ca. (GL QI 1) Certification



* The median for numerator and denominator does not refer to an existing center, but reflects the median of all numerators of the cohort and the median of all denominators of the cohort.

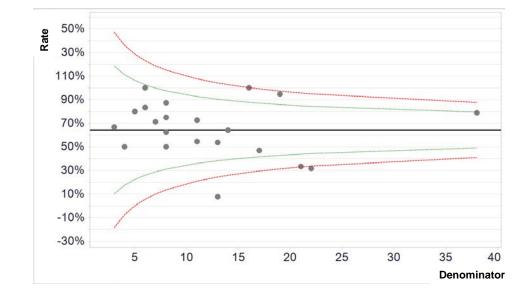
** Percentage of total patients treated in centers according to the numerator.

*** For values outside the plausibility limit(s), the centers are required to provide a justification.

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22. First-line therapy with EGFR TKI b. NSCLC Stad. IV with activating EGFR mutation and ECOG 0-2 (GL QI 2)





100% - 90% -				2014	2015	2016	2017	2018	
80%		٠	Max					100%	
70% - 60% -		Т	95 th percentile					<mark>98.95%</mark>	
50%			75 th percentile					<mark>83.33%</mark>	
40% - 30% -			Median					<mark>71.43%</mark>	
20%			25 th percentile					<mark>53.85%</mark>	
10%	•	T	5 th percentile					<mark>32.12%</mark>	
-	2018	•	Min					7.69%	

	Definition of indicator	All clinical sites 2018			
		Median	Range	Patients Total	
Numerator	Primary cases with the start of a first-line therapy with EGFR TKI	6*	1 - 30	179	
Denominator	Primary cases with NSCLC stage IV, activating EGFR mutation and ECOG 0-2	8*	3 - 38	278	
Rate	Explanation mandatory*** <30%	71.43%	7.69% - 100%	64.39%**	

Clinical sites with evaluable data		Clinical sites plausibility co	
Number	%	Number	%
25	45.45%	24	96.00%

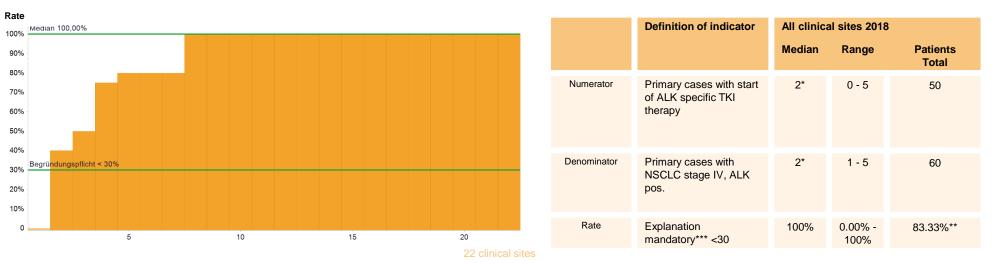
Comments:

Information on the quality indicator was voluntary in audit year 2019. Of the 25 Centres that submitted data, 24 Centres achieved the rate of at least 30%. The low number of patients in the denominator leads to a high dispersion of the results of this indicator. The only Centre with a quota of less than 30% that had to substantiate its results stated that in the majority of cases TKI therapy was initiated by the practise-based oncologist after discharge.

* The median for numerator and denominator does not refer to an existing center, but reflects the median of all numerators of the cohort and the median of all denominators of the cohort.

** Percentage of total patients treated in centers according to the numerator.

23. First-line therapy with ALK specific TKI therapy for pat. with ALK pos. NSCLC in stage IV (GL QI 3)



Begründungspflicht = mandatory statement of reasons

100% -90% -80% -70% -60% -50% -40% -30% -20% -10% -2018

		2014	2015	2016	2017	2018
•	Max					100%
Т	95 th percentile					100%
	75 th percentile					100%
	Median					100%
	25 th percentile					80.00%
\perp	5 th percentile					40.50%
•	Min					0.00%

Clinical sites evaluable data		Clinical sites plausibility co	
Number %		Number	%
22	40.00%	21	95.45%

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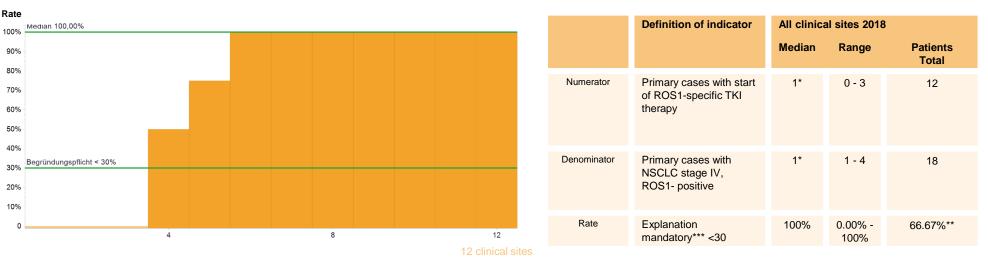
Comments:

Information on the quality indicator was voluntary in audit year 2019. The maximum number of patients in the denominator that could be considered was 5 patients. Only one of the Centres that had submitted data for this indicator was required to give reasons at a rate of 0% (only 1 patient in the denominator). The Centre explained that this patient was re-biopsied after initially being ALK negative and subsequently tested ALK positive. TKI therapy was initiated as a result.

* The median for numerator and denominator does not refer to an existing center, but reflects the median of all numerators of the cohort and the median of all denominators of the cohort.

** Percentage of total patients treated in centers according to the numerator.

24. First-line therapy with ROS1 specific TKI therapy for pat. with ROS1 pos. NSCLC in stadium IV (GL QI 4) Certification



Begründungspflicht = mandatory statement of reasons

100%	•			2014	2015	2016	2017	20
90% -			Max					4.00
60% -		•	IVIAX					10
70% -		Т	95 th percentile					10
60% - 50% -			75 th percentile					10
40% -			Median					10
50% -			Median					100
20% -			25 th percentile					37.5
10% -		1	5 th percentile					0.0
	2018	•	Min					0.0

Clinical sites evaluable dat		Clinical sites plausibility co	
Number	%	Number	%
12	21.82%	9	75.00%

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Comments:

The low number of only 12 Centres with evaluable data, also in comparison with the other indicators for drug-based tumour therapy, is due to the fact that 10 Centres did not treat any ROS-1-positive primary cases in the indicator year. As expected, the denominator for the remaining Centres is small. Of these, 3 achieved a rate of less than 30%. The reason given was that patients had died before initiation of therapy, the therapy was initiated by the practice-based oncologist, the therapy was rejected by the patient and that the molecular pathological findings were only available after initiation of palliative chemotherapy, whereupon a switch to ROS-1-specific therapy was made.

* The median for numerator and denominator does not refer to an existing center, but reflects the median of all numerators of the cohort and the median of all denominators of the cohort.

** Percentage of total patients treated in centers according to the numerator.

25. Combined radio-chemotherapy for SCLC Stad. IIB - IIIB (GL QI 8)



				Definition of indicator	All clinica	al sites 2018	
					Median	Range	Patients Total
edian 62,15%			Numerator	Primary cases with radiochemotherapy	6,5*	1 - 46	306
ründungspflicht < 30%			Denominator	Primary cases SCLC stage IIB [T3] - IIIC [TNM: cT1/2 N2-3 M0, cT3/4 N0-3 M0] and ECOG 0/1	12*	1 - 60	472
10	20	30 32 clinical sites	Rate	Explanation mandatory*** <30%	62.15%	33.33% - 100%	64.83%**

Begründungspflicht = mandatory statement of reasons

100% 90% -80% -70% -60% -50% -40% -30% -20% -10% -

		2014	2015	2016	2017	2018
•	Max					100%
Т	95 th percentile					<mark>97.71%</mark>
	75 th percentile					75.00%
	Median					<mark>62.15%</mark>
L_	25 th percentile					53.13%
\bot	5 th percentile					37.00%
•	Min					33.33%

Clinical sites evaluable dat		Clinical sites plausibility co	
Number	Number %		%
32	58.18%	32	100.00%

Comments:

All 32 Centres that provided data for this indicator, which was collected for the first time, achieved a rate of at least 30%. Overall, a broad spread of the rates is striking, but this should be seen against the background of low patient numbers.

* The median for numerator and denominator does not refer to an existing center, but reflects the median of all numerators of the cohort and the median of all denominators of the cohort.

** Percentage of total patients treated in centers according to the numerator.

2018



26. CTCAE grade V on systemic therapy

Rate						Definition of indicator		1 -: 4 0040		
5,0%	Begrundungspflicht > 5%					Definition of indicator		All clinical sites 2018		
4,5%							Median	Range	Patients Total	
4,0%					Numerates	Defense and a second defense of the	0.*	0.7		
3,5%					Numerator	Primary cases with CTCAE grade V under systemic therapy	0*	0 - 7	36	
3,0%										
2,5%										
2,0%										
1,5%					Denominator	Primary cases stage III or IV with systemic	144*	35 - 483	4,096	
1,0%						therapy				
0,5%										
0	Median 0,00%				Rate	Explanation	0.00%	0.00% -	0.88%**	
0	5	10	15	20		mandatory*** >5%	0.0070	4.86%	0.0070	
				24 clinical sites						

Begründungspflicht = mandatory statement of reasons

5%	•			2014	2015	2016	2017	2018
4,5% - 4% -	Т	•	Max					4.86%
3,5%		Т	95 th percentile					4.29%
3% - 2,5% -			75 th percentile					0.87%
2,5%			Median					0.00%
1,5% -		Ц	25 th percentile					0.00%
1%- 0,5%-		\bot	5 th percentile					0.00%
	2018	•	Min					0.00%

Clinical sites evaluable data		Clinical sites within the plausibility corridor				
Number	%	Number	%			
24	43.64%	24	100.00%			

Comments:

All 24 Centres with evaluable data remained below the rate of 5% of patients who died under systemic therapy. 14 of these Centres recorded no deaths at all, 4 had a value between 0 and 1%.

* The median for numerator and denominator does not refer to an existing center, but reflects the median of all numerators of the cohort and the median of all denominators of the cohort.

** Percentage of total patients treated in centers according to the numerator.

WISSEN AUS ERSTER HAND (FIRST-HAND KNOWLEDGE)



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