



Indicator Analysis 2023

Annual Report of the Certified Breast Cancer Centres (BCCs)

Audit year 2022 / indicator year 2021

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General information

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Indicator No 7:	Endocrine therapy in the case of steroid rec. positive result (GL QI 9)	
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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. These quality indicators are based on the strong recommendations of the guidelines and were derived from the guidelines groups in the context of the German Guideline Programme in Oncology (GGPO). Further information: www.leitlinienprogramm-onkologie.de *

Basic data indicator:

The definition of the **numerator**, **denominator** and the **target value** are taken from the data sheet.

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

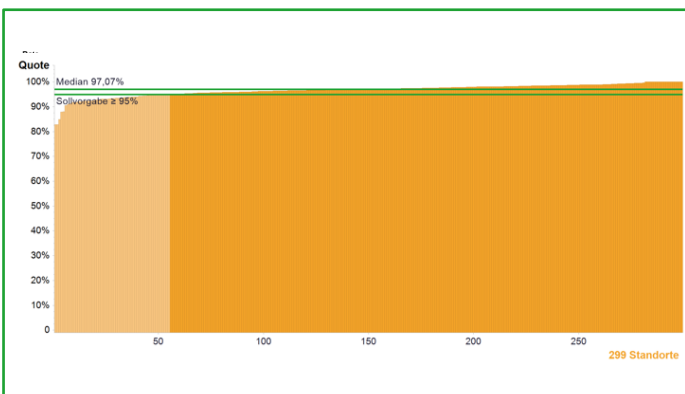
Range specifies the value range for the numerator, denominator and ratio of all centres.

The column **Patients Total** displays the total of all patients treated according to the indicator and the corresponding quota.

Diagram:

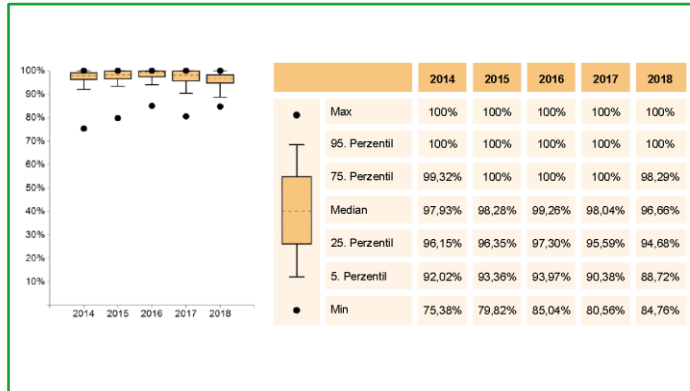
The x-axis indicates the number of centres and the y-axis represents the values in percent or number (e.g. primary cases). The target value is depicted as a green horizontal line. The median, which is also depicted as a green horizontal line, divides the entire group into two equal halves.

	Definition of indicator	All clinical sites 2018		
		Median	Range	Patients Total
Numerator	Primary cases of the denominator in which radiotherapy was recommended	97*	26 - 566	30,659
Denominator	Primary cases with an invasive mammary carcinoma and BCS (without primary M1 pat.)	100*	26 - 578	31,602
Rate	Target value ≥ 90%	97.73%	86.32% - 100%	97.02%**



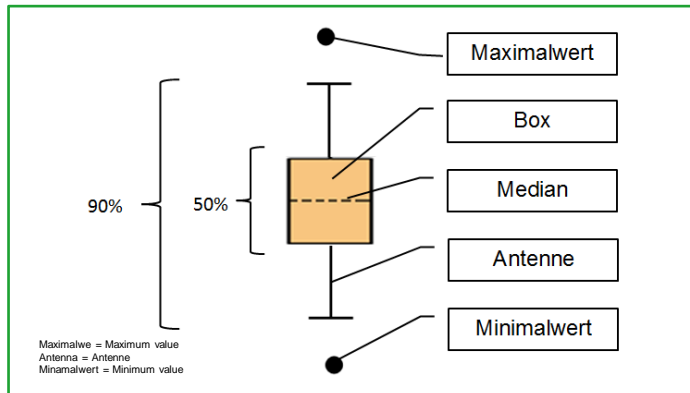
*For further information on the methodological approach see „Development of guideline-based quality indicators“ (https://www.leitlinienprogramm-onkologie.de/fileadmin/user_upload/Downloads/Methodik/QIEP_OL_Version2_english.pdf)

General information



Cohort development:

The **cohort development** in the years **2017, 2018, 2019, 2020** and **2021** is presented in a box plot diagram.



Boxplot:

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.

Status of the certification system: Breast Cancer Centres 2022

	31.12.2022	31.12.2021	31.12.2020	31.12.2019	31.12.2018	31.12.2017
Ongoing certification procedures	4	5	4	2	4	2
Certified centres	254	248	245	243	237	234
Certified clinical sites	288	286	284	282	280	280
BCC with 1 clinical site	224	214	210	209	199	193
2 clinical sites	28	32	33	31	35	38
3 clinical sites	0	0	0	1	1	1
4 clinical sites	2	2	2	2	2	2

Clinical sites taken into account

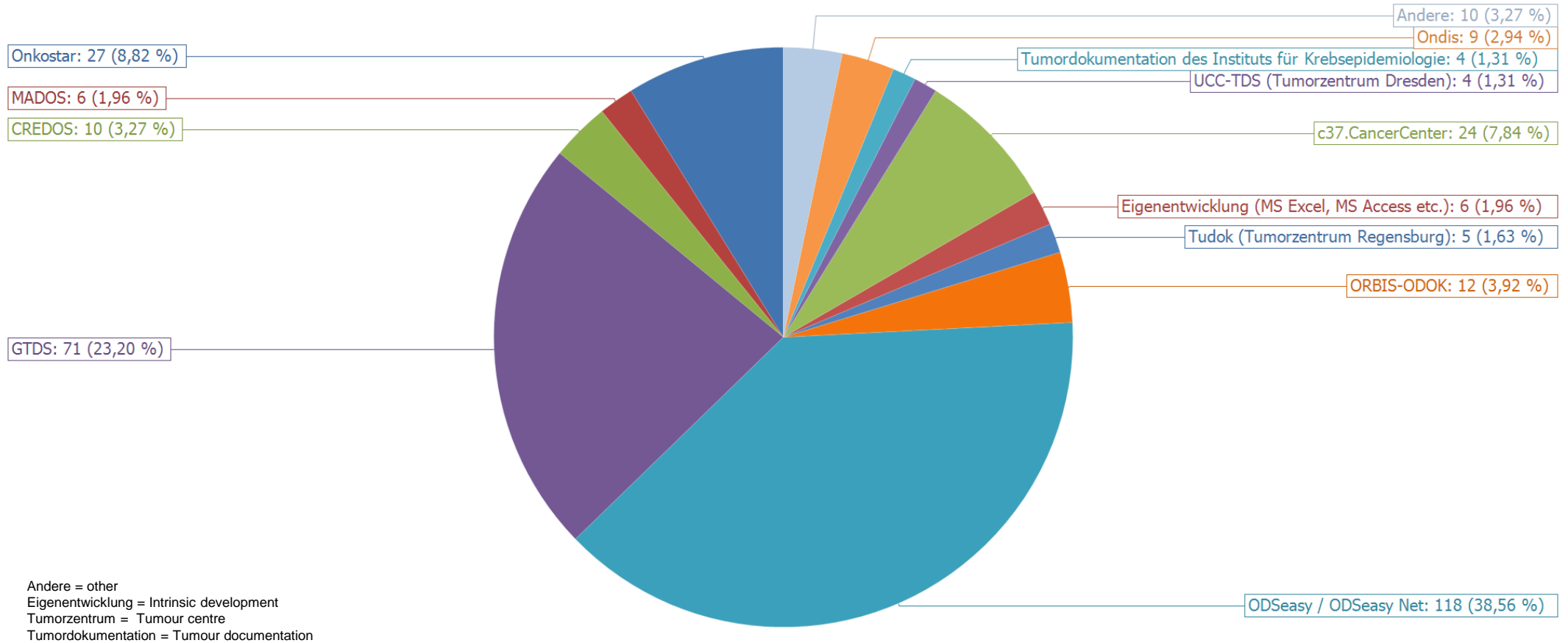
	Sites DKG & NRW	DKG Breast Cancer Centres					
	31.12.2022	31.12.2022	31.12.2021	31.12.2020	31.12.2019	31.12.2018	31.12.2017
Sites considered in the annual report	306	282	280	280	276	278	275
corresponds to	-	97.9%	97.9%	98.6%	97.9%	99.3%	98.2%
Primary cases total*	68,092	62,100	58,331	60,752	57,589	55,715	54,385
Primary cases per site (mean)*	222,5	220	208	217	209	200	198
Primary cases per site (median)*	187,5	184	180	182	180,5	178	175

Breast Cancer Centres North Rhine-Westphalia (NRW)	31.12.2022	This annual report looks at the Breast Cancer Centres certified in the certification system of the German Cancer Society (DKG) and, from 2021, Breast Centres in the state of NRW that participate in the DKG's data management system. The basis for the diagrams in the annual report is the data sheet. The indicator published here refer to the indicator year 2021. They represent the assessment basis for the audits carried out in 2022.
Sites considered in the annual report	24	DKG Breast Cancer Centres: The annual report includes 282 of the 288 DKG-certified centre sites. Excluded are 5 clinical sites that were certified for the first time in 2022 (data mapping of complete calendar year not mandatory for first-time certifications). In addition, one clinical site was not included as it did not conduct an audit in 2022 and did not submit a Data Sheet (suspension of the certificate in the first quarter of 2023).
Primary cases total*	5,992	Breast Cancer Centres NRW: Included in the annual report are 24 centre sites in the state of NRW that participate in the DKG's data management. A total of 5,992 primary cases of breast cancer were treated at the 24 clinical sites.
Primary cases per site (mean)*	250	
Primary cases per site (median)*	201	

A current overview of all sites is shown at www.oncomap.de. Using the filter "Certificate", a common view or a view separated according to certified and recognised sites can be selected.

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

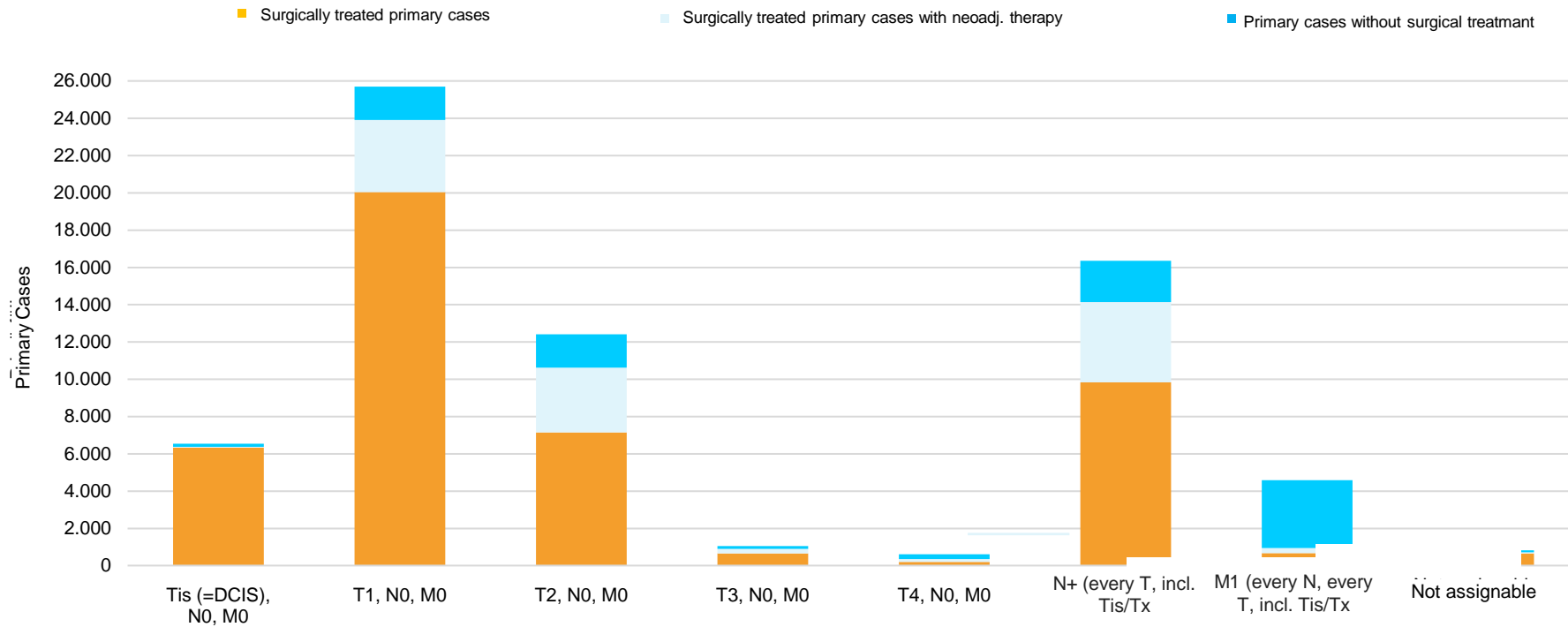
Tumour documentation systems in the Centre's clinical sites



The details on the tumour documentation system was taken from the Data Sheet (Basic Data Sheet). It is not possible to use 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.

Legend	
Others	System used in < 4 clinical sites

Basic data – Primary Cases Breast Cancer



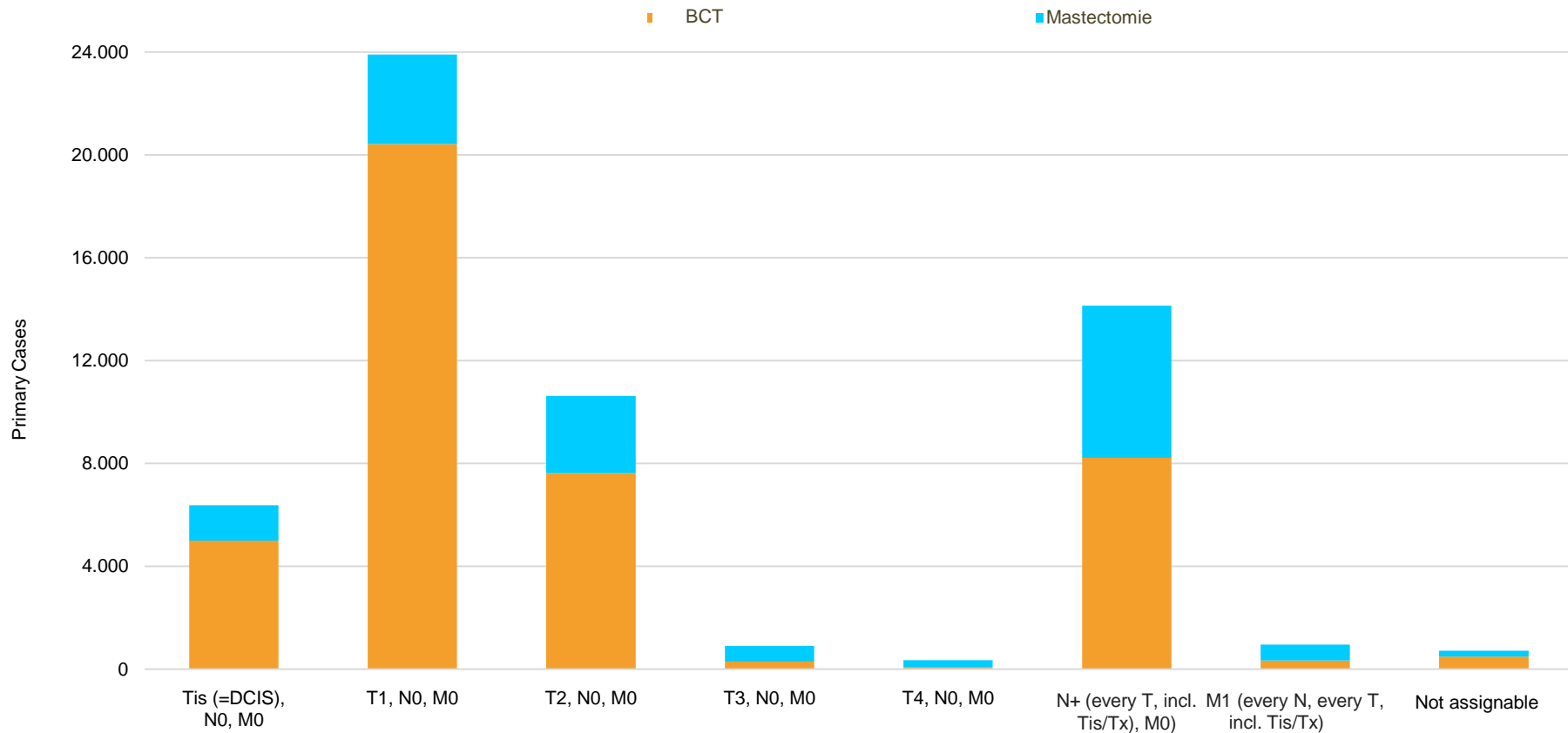
	Tis (=DCIS), N0, M0	T1, N0, M0	T2, N0, M0	T3, N0, M0	T4, N0, M0	N+ (every T incl. Tis/Tx), M0)	M1 (every N, every T incl. Tis/Tx)	Not assignable*	Total
Non-surgical primary cases	161 (2.46%)	1,792 (6.97%)	1795 (14.45%)	153 (14.57%)	263 (43.11%)	2,214 (13.54%)	3,642 (79.29%)	110 (13.33%)	10,130
Primary cases Surgery with neoadj. Th.**	51 (0.78%)	3,870 (15.06%)	3,470 (27.94%)	239 (22.76%)	138 (22.62%)	4,309 (26.35%)	281 (6.12%)	50 (6.06%)	12,408
Primary cases without neoadj. Th.***	6,330 (96.76%)	20,036 (77.97%)	7,153 (57.60%)	658 (62.67%)	209 (34.26%)	9,833 (60.12%)	670 (14.59%)	665 (80.61%)	45,554
Primary cases Total	6,542	25,698	12,418	1,050	610	16,356	4,593	825	68,092

*others: e.g. T1, N0, Mx

** primary cases operated with neo-adjuvant or pre-operative systemic therapy

*** primary cases operated without neo-adjuvant or pre-operative systemic therapy

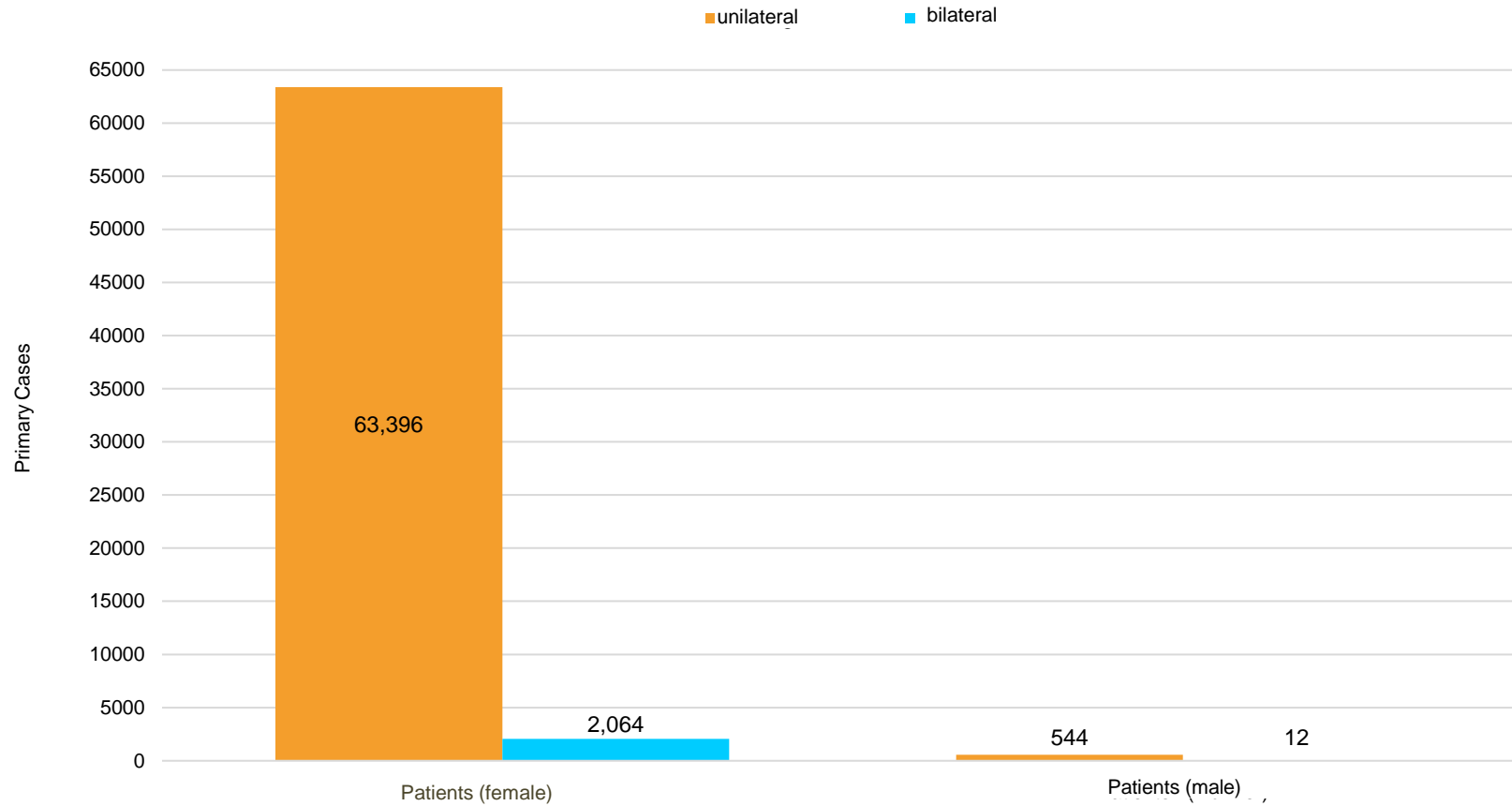
Basic data – Distribution of surgically treated primary cases



	Tis (=DCIS), NO, M0	T1, NO, M0	T2, NO, M0	T3, NO, M0	T4, NO, M0	N+ (every T incl. Tis/Tx), M0)	M1 (every N, every T incl. Tis/Tx)	Not assignable*	Total
Mastectomies	1,379 (21.61%)	3,484 (14.57%)	2,995 (28.19%)	601 (67.00%)	261 (75.22%)	5,924 (41.89%)	616 (64.77%)	227 (31.75%)	15,487
BCT	5,002 (78.39%)	20,422 (85.43%)	7,628 (71.81%)	296 (33.00%)	86 (24.78%)	8,218 (58.11%)	335 (35.23%)	488 (68.25%)	42,475
Surgically treated Primary cases Total	6,381	23,906	10,623	897	347	14,142	951	715	57,962

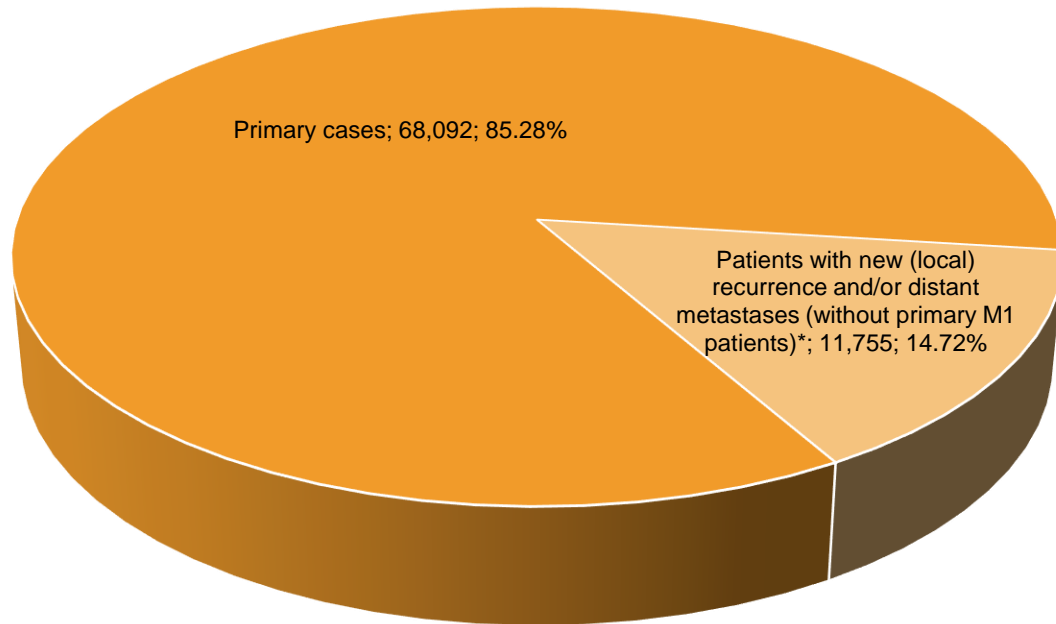
* Not assignable: e.g. T1, NO, Mx

Basic data – Gender distributuon



	Female patients	Male patients	Primary cases Total
unilateral	63,396 (96.85%)	544 (97.84%)	63,940
bilateral (simultaneous)	2,064 (3.15%)	12 (2.16%)	4,152
			68,092
Total	65,460	556	

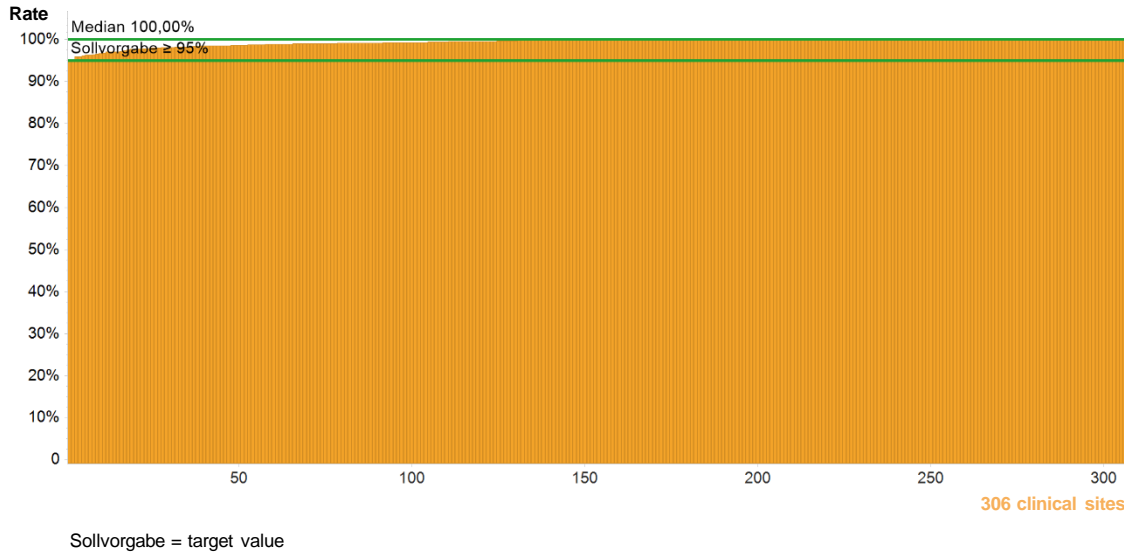
Basic data – Ratio of primary cases to recurrences / metastases breast cancer



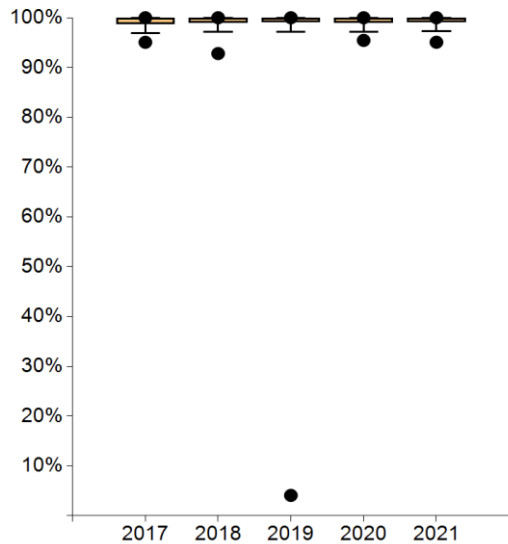
Primary cases	Patients with new (local) recurrence and/or distant metastases (without primary M1 patients)*	centre cases
68,092 (85.28%)	11,755 (14.72%)	79,847 (100%)

* Reference to indicator 14b

1. Post-operative tumour board



	Definition of indicator	All clinical sites 2021		
		Median	Range	Patients Total
Numerator	Primary cases of denominator presented in the postoperative tumour board	154*	42 - 898	57624
Denominator	Surgical primary cases (primary case definition see 1.2.0)	155*	42 - 898	57962
Rate	Target value ≥ 95%	100%	95,08% - 100%	99,42%**



	2017	2018	2019	2020	2021
Maximum	100%	100%	100%	100%	100%
95 th percentile	100%	100%	100%	100%	100%
75 th percentile	100%	100%	100%	100%	100%
Median	99.88%	100%	100%	100%	100%
25 th percentile	98.73%	99.01%	99.10%	99.03%	99.11%
5 th percentile	96.85%	97.21%	97.20%	97.10%	97.26%
Minimum	95.07%	92.81%	4.08%	95.45%	95.08%

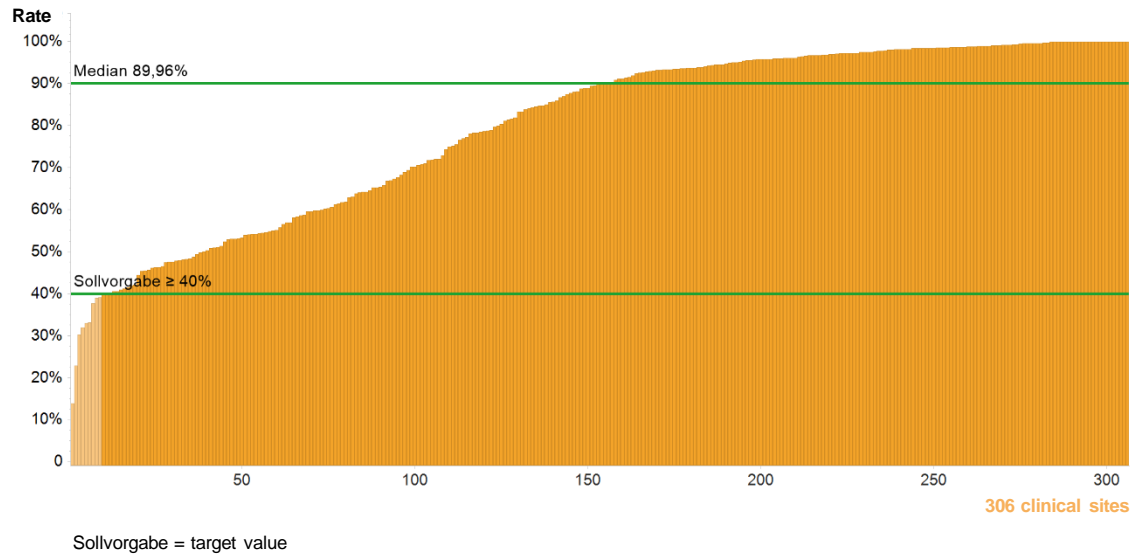
Clinical sites with evaluable data		Clinical sites meeting the target value	
Number	%	Number	%
306	100.00%	306	100.00%

Comment
As in the previous indicator year, all centres achieved the target value for post-operative case review. 176 clinical sites presented all surgical primary cases in the tumour board. The indicator is thus almost completely implemented in the centres.

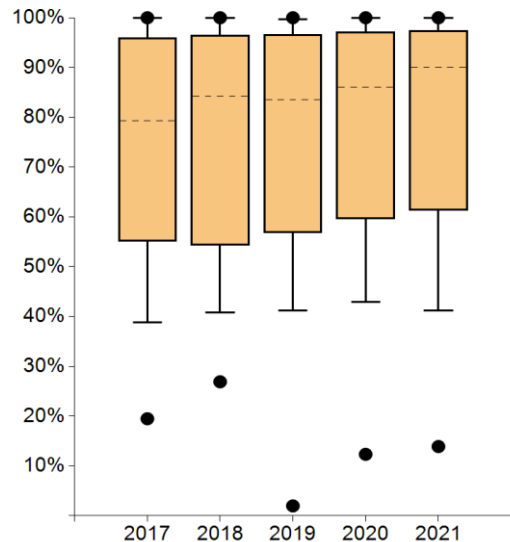
*The median for numerator and denominator does not refer to an existing centre, but reflects the median of all numerators of the cohort and the median of all denominators of the cohort.

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

2. Pretherapeutic tumour board



	Definition of indicator	All clinical sites 2021		
		Median	Range	Patients Total
Numerator	Primary cases of denominator presented in the pretherapeutic tumour board	147,5*	20 - 756	53758
Denominator	Primary cases	187,5*	53 - 964	68092
Rate	Target value: ≥ 40%	89.96%	13.89% - 100%	78.95%**



	2017	2018	2019	2020	2021
● Maximum	100%	100%	100%	100%	100%
95 th percentile	100%	100%	99,65%	100%	100%
75 th percentile	95.92%	96.44%	96.59%	97.16%	97.47%
Median	79.32%	84.24%	83.49%	86.00%	89.96%
25 th percentile	55.14%	54.28%	56.79%	59.56%	61.26%
5 th percentile	38.88%	40.79%	41.22%	42.87%	41.23%
● Minimum	19.47%	26.89%	1.97%	12.33%	13.89%

Clinical sites with evaluable data		Clinical sites meeting the target value	
Number	%	Number	%
306	100.00%	297	97.06%

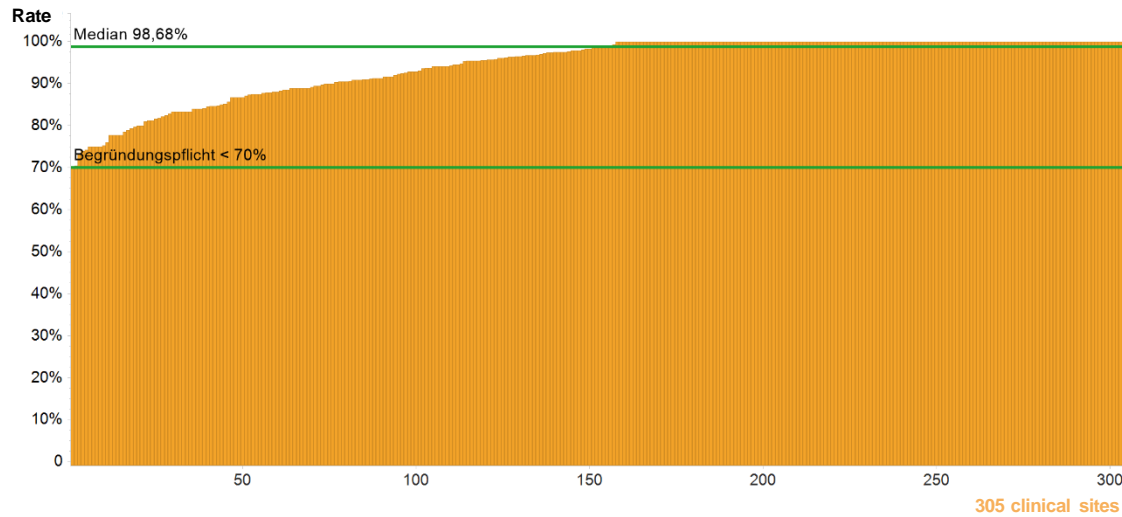
Comments:

The positive trend in the fulfilment of this Indicator continues. As in previous years, the median has risen and is now around 90%. However, 9 centres (previous year: 8) were below the target value of at least 40%. 6 of these centres only presented certain groups of patients (e.g. only neoadjuvant therapy and metastasised patients). 2 centres reported documentation problems. Measures included in particular the expansion of the criteria for presentation and the revision of checklists.

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

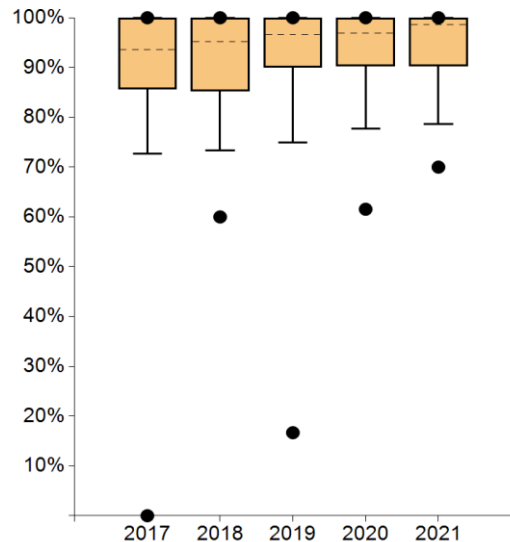
** Percentage of total patients treated in centres according to the numerator.

3. Tumour board local recurrence/metastases



Begründungspflicht = mandatory statement for reason

	Definition of indicator	All clinical sites 2021		
		Median	Range	Patients Total
Nominator	Patients of the dominator presented in the tumour board	29*	3 - 165	11111
Denominator	Patients with first (local) recurrence and/or first distant metastasis (= Indicator 14b) (without primary M1 pat.)	31*	3 - 173	11755
Rate	Mandatory statement of reasons*** <70%	98.68%	70.00% - 100%	94.52%**



	2017	2018	2019	2020	2021
Maximum	100%	100%	100%	100%	100%
95 th percentile	100%	100%	100%	100%	100%
75 th percentile	100%	100%	100%	100%	100%
Median	93.56%	95.24%	96.67%	96.88%	98.68%
25 th percentile	85.71%	85.27%	90.00%	90.32%	90.32%
5 th percentile	72.67%	73.33%	75.00%	77.78%	78.65%
Minimum	0.00%	60.00%	16.67%	61.54%	70.00%

Clinical sites with evaluable data		Clinical sites meeting the plausibility limits	
Number	%	Number	%
305	99.67%	305	100.00%

Comments:

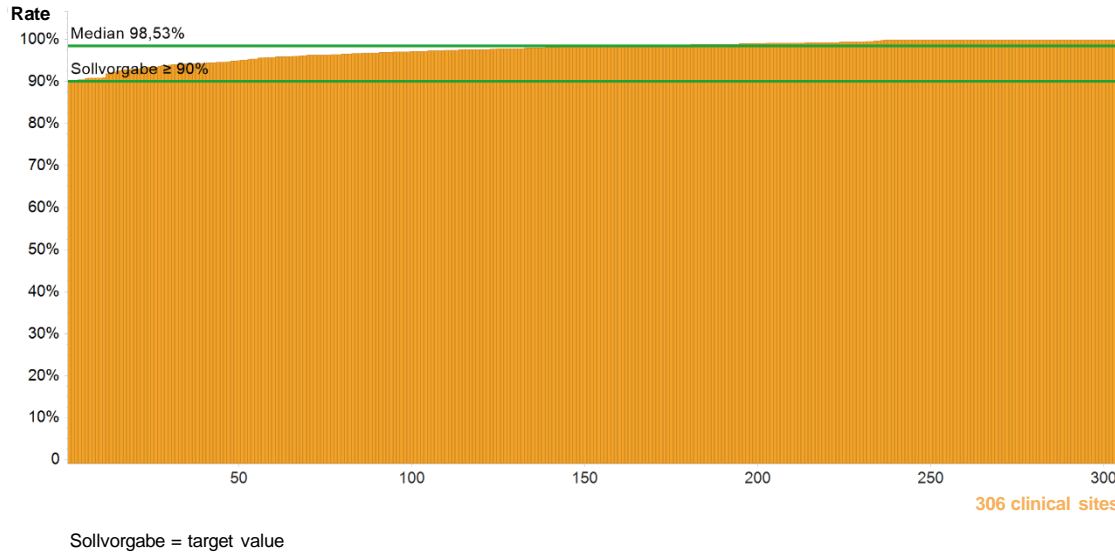
With a further increase in the median, for the first time all centres achieved a rate of at least 70% in the presentation of recurrences and metachronous metastases in the tumour board. 148 centres have even achieved a 100% presentation rate.

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

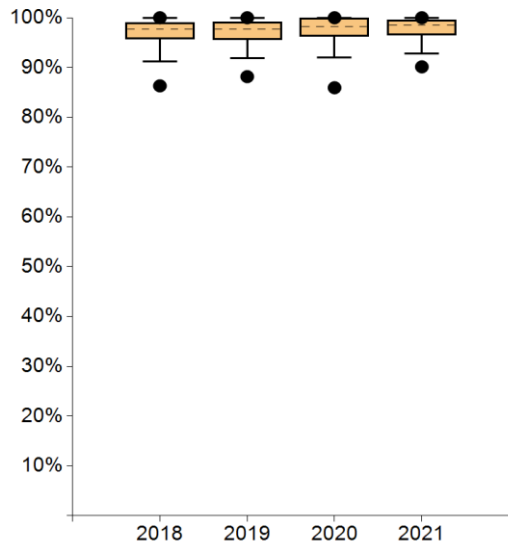
** Percentage of total patients treated in centres according to the numerator

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

4. Radiotherapy after BCT in the case of invasive breast cancer (GL QI)



	Definition of indicator	All clinical sites 2021		
		Median	Range	Patients Total
Numerator	Primary cases of the denominator in which radiotherapy was recommended	97*	29 - 630	36088
Denominator	Primary cases with an invasive breast cancer and BCT (without primary M1 pat.)	99*	30 - 630	36945
Rate	Target value ≥ 90%	98.53%	90.14% - 100%	97.68%**



	2017	2018	2019	2020	2021
● Maximum	-----	100%	100%	100%	100%
95 th percentile	-----	100%	100%	100%	100%
75 th percentile	-----	98.97%	99.10%	100%	99.49%
Median	-----	97.73%	97.67%	98.28%	98.53%
25 th percentile	-----	95.71%	95.60%	96.23%	96.45%
5 th percentile	-----	91.17%	91.89%	91.96%	92.75%
● Minimum	-----	86.32%	88.17%	85.94%	90.14%

Clinical sites with evaluable data		Clinical sites meeting the target value	
Number	%	Number	%
306	100.00%	306	100.00%

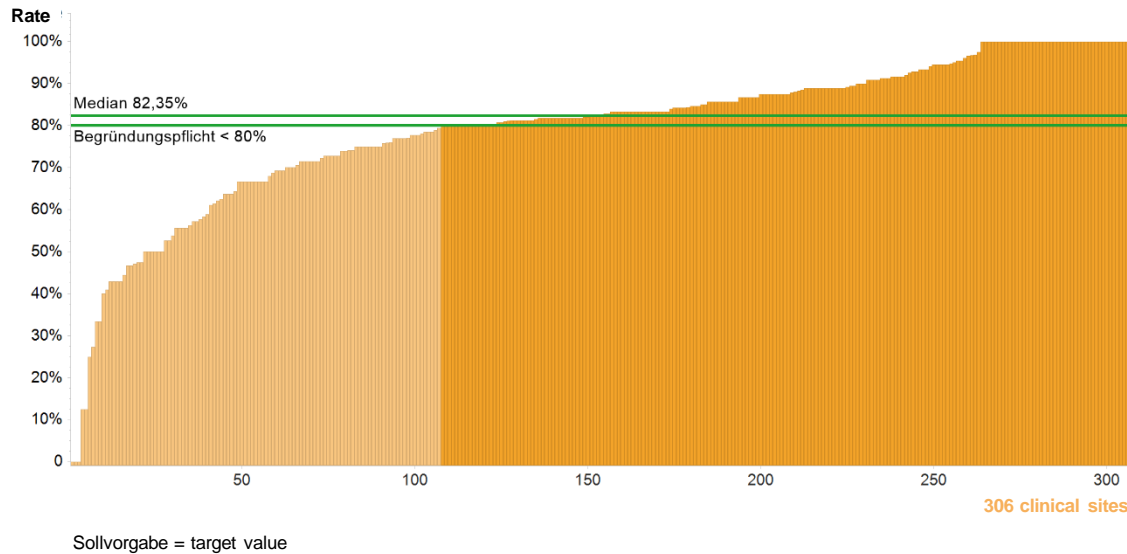
Comments:

Whereas in the previous indicator year 2 centres still failed to meet the target value, all centres are now above 90%. Although the degree of fulfilment of this indicator has always been high in recent years, there was a continuous improvement over the course of the year. The median is now just under 99%.

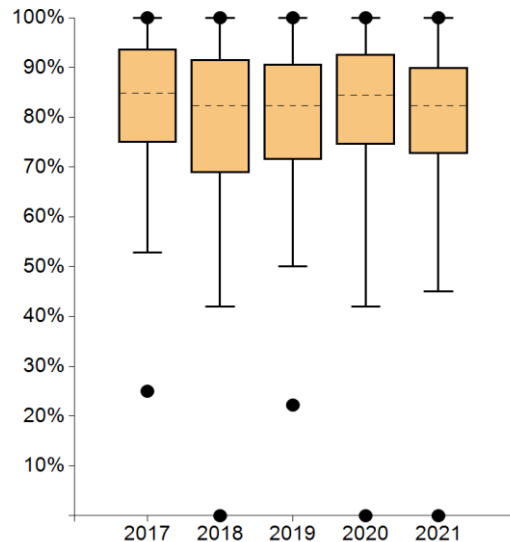
*The median for numerator and denominator does not refer to an existing centre, but reflects the median of all numerators of the cohort and the median of all denominators of the cohort.

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

5. Radiotherapy after BCT in the case of DCIS



	Definition of indicator	All clinical sites 2021		
		Median	Range	Patients Total
Numerator	Primary cases of the denominator in which radiotherapy was initiated	10*	0 - 69	4024
Denominator	Primary cases with DCIS and BCT	14*	1 - 85	5008
Rate	Mandatory statement of reasons*** <80%	82.35%	0.00% - 100%	80.35%**



	2017	2018	2019	2020	2021
Maximum	100%	100%	100%	100%	100%
95 th percentile	100%	100%	100%	100%	100%
75 th percentile	93.75%	91.67%	90.68%	92.72%	90.00%
Median	84.93%	82.35%	82.35%	84.42%	82.35%
25 th percentile	75.00%	68.83%	71.43%	74.60%	72.73%
5 th percentile	52.82%	42.00%	50.00%	41.94%	45.00%
Minimum	25.00%	0.00%	22.22%	0.00%	0.00%

Clinical sites with evaluable data		Clinical sites within the plausibility limits	
Number	%	Number	%
306	100.00%	199	65.03%

Comments:

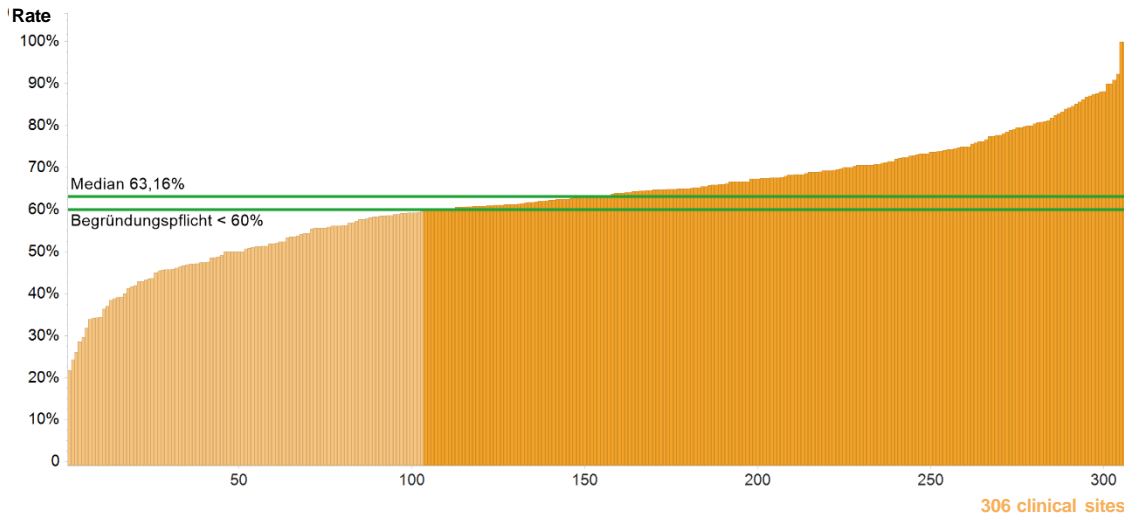
Median and overall rate for radiotherapy after BCT for DCIS decreased slightly. 107 centres (previous year: 96) were below 80% and thus were obliged to state reasons. Most of the patients (74 mentions) had refused radiotherapy. Other frequent reasons were radiation treatments that had not yet started (22x), very small carcinomas (22x), old age (18x), low grade tumours (16x), no information about further therapy (13x), M. Paget (11x) and comorbidity/multimorbidity (10x). The centre with 0% had only one patient in the denominator who was not irradiated due to history of recurrent and metastasised contralateral breast cancer.

The median for numerator and denominator does not refer to an existing centre, 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 centres according to the numerator

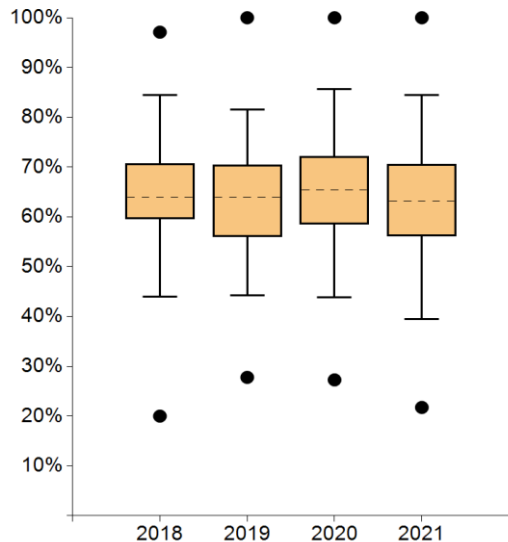
*** For values outside the plausibility limit(s), the centres are required to provide a justification..

6. Chemotherapy in the case of rec. pos. and nodal pos. result



Begründungspflicht = mandatory statement for reason

	Definition of indicator	All clinical sites 2021		
		Median	Range	Patients Total
Numerator	Primary cases of the denominator in which chemotherapy was recommended	24*	3 - 129	8308
Denominator	Primary cases with invasive breast cancer with receptor positive and nodal positive result (without primary M1 pat.)	37*	7 - 205	13278
Rate	Mandatory statement of reasons*** ≥ 60%	63.16%	21.74% - 100%	62.57%**



	2017	2018	2019	2020	2021
Maximum	-----	97.10%	100%	100%	100%
95 th percentile	-----	84.50%	81.55%	85.65%	84.52%
75 th percentile	-----	70.76%	70.40%	72.16%	70.59%
Median	-----	64.00%	64.00%	65.45%	63.16%
25 th percentile	-----	59.54%	56.03%	58.48%	56.10%
5 th percentile	-----	43.92%	44.28%	43.82%	39.47%
Minimum	-----	20.00%	27.78%	27.27%	21.74%

Clinical sites with evaluable data		Clinical sites within the plausibility limits	
Number	%	Number	%
306	100.00%	203	66.34%

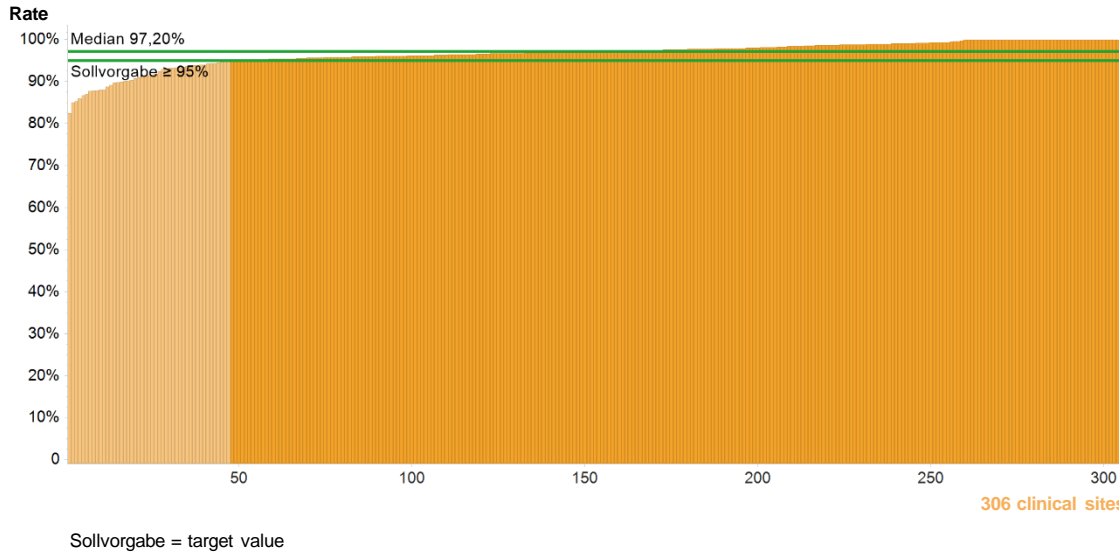
Comment

The proportion of patients of the denominator with chemotherapy has decreased compared to the pre-indicator year. Accordingly, with 103 centres, 24 more than in the previous year were below 60%. The most frequent reasons given by the centres were co-morbidity/multimorbidity (72x), old age (69x), low risk according to the gene expression test (62x), micrometastases (37x), favourable tumour biology (28x), poor general condition (22x) and only 1-2 existing lymph node metastases (20x). As a rule, the justifications of the centres could be plausibilised in the audits.

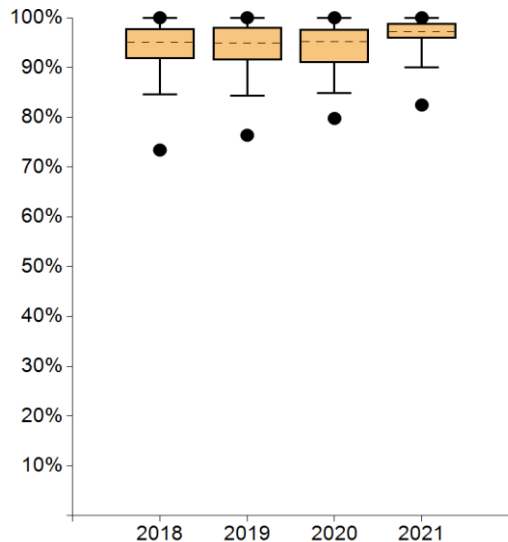
*The median for numerator and denominator does not refer to an existing centre, but reflects the median of all numerators of the cohort and the median of all denominators of the cohort.

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

7. Endocrine therapy in the case of steroid rec. positive result (GL QI)



	Definition of indicator	All clinical sites 2021		
		Median	Range	Patients Total
Numerator	Primary cases of the denominator in which endocrine therapy was recommended	123*	35 - 723	46031
Denominator	Primary cases with invasive breast cancer in the case of steroid rec. positive result (without primary M1 pat.)	131*	35 - 741	47590
Rate	Target value \geq 95%	97.20%	82.47% - 100%	96.72%**



	2017	2018	2019	2020	2021
Maximum	-----	100%	100%	100%	100%
95 th percentile	-----	100%	100%	100%	100%
75 th percentile	-----	97.87%	98.04%	97.72%	98.84%
Median	-----	95.07%	94.85%	95.16%	97.20%
25 th percentile	-----	91.70%	91.52%	90.91%	95.78%
5 th percentile	-----	84.61%	84.28%	84.84%	90.00%
Minimum	-----	73.43%	76.40%	79.78%	82.47%

Clinical sites with evaluable data		Clinical sites meeting the target value	
Number	%	Number	%
306	100.00%	260	84.97%

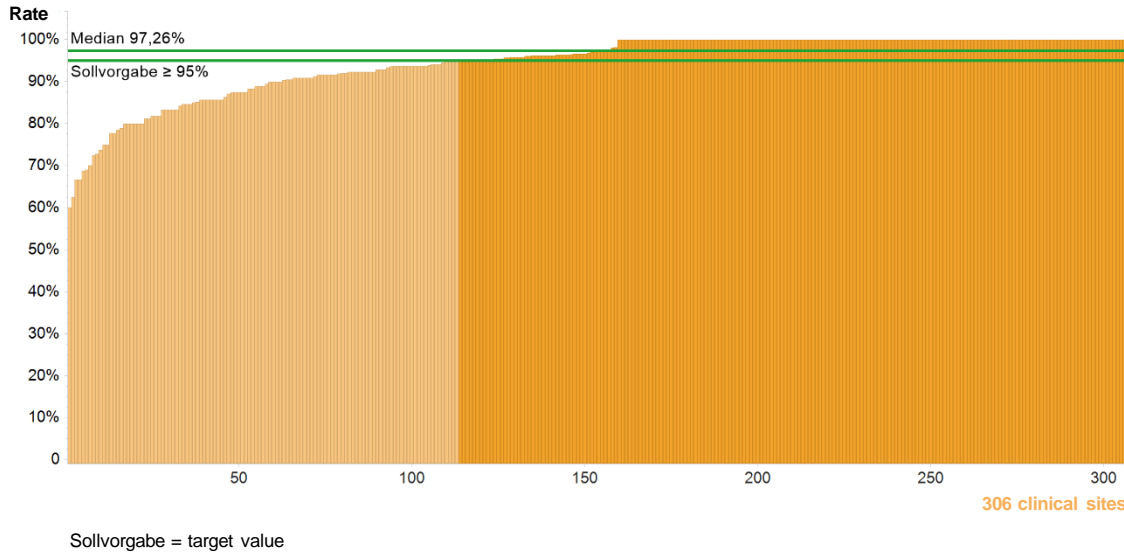
Comment

The median has risen again and the implementation of the QI of the guideline has improved. However, due to the raised target volume from at least 80% to at least 95%, more centres than in the previous year failed to meet the target value. Of these 66 centres, 38 referred to an outstanding recommendation during ongoing therapy (post-operative tumour board to follow). Other frequent reasons were patients who died early (17), only weak hormone receptor positivity (13x), external further treatment (8x) and old age or co-morbidity/multimorbidity (6x each). The reasons were mostly plausible in the audits.

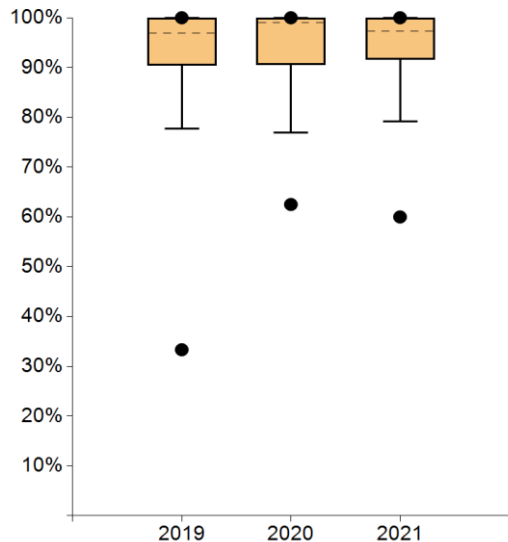
*The median for numerator and denominator does not refer to an existing centre, but reflects the median of all numerators of the cohort and the median of all denominators of the cohort.

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

8. Trastuzumab therapy over 1 year in the case of HER-2 pos. result (GL QI)



	Definition of indicator	All clinical sites 2021		
		Median	Range	Patients Total
Numerator	Primary cases of the denominator for which trastuzumab therapy over 1 year was recommended	15*	1 - 81	5272
Denominator	Primary cases with invasive breast cancer with HER-2 pos. result ≥ pT1c (in neoadj. pre-treated and in non-operated patients: ≥ cT1c) (without primary M1 patients)	16*	1 - 82	5547
Rate	Target value ≥ 95%	97.26%	60.00% - 100%	95.04%**



	2017	2018	2019	2020	2021
Maximum	-----	-----	100%	100%	100%
95 th percentile	-----	-----	100%	100%	100%
75 th percentile	-----	-----	100%	100%	100%
Median	-----	-----	96.88%	99.02%	97.26%
25 th percentile	-----	-----	90.48%	90.52%	91.67%
5 th percentile	-----	-----	77.78%	76.96%	79.21%
Minimum	-----	-----	33.33%	62.50%	60.00%

Clinical sites with evaluable data		Clinical sites meeting the target value	
Number	%	Number	%
306	100.00%	193	63.07%

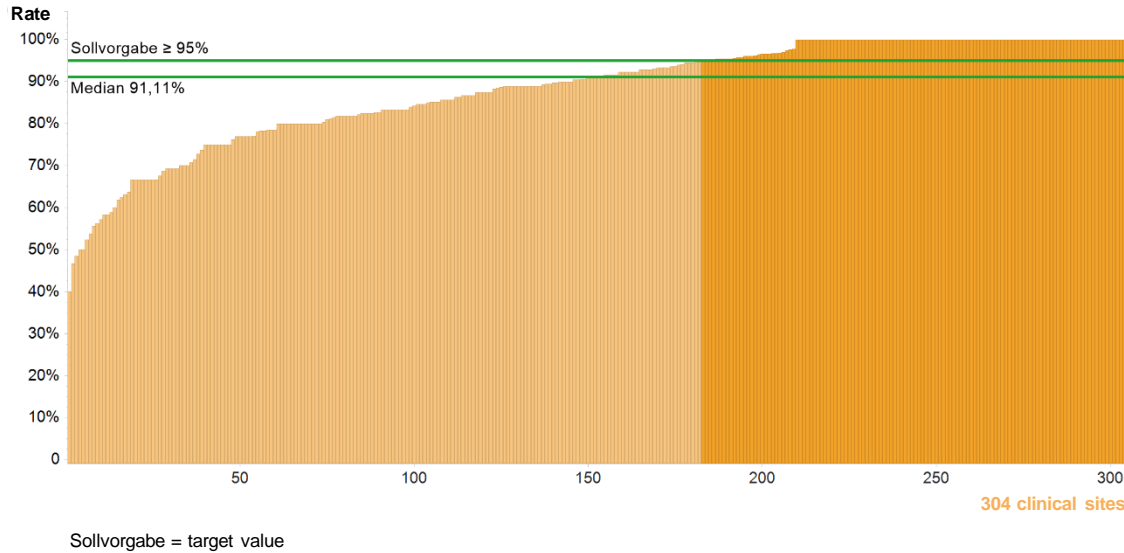
Comments:

With a slightly lower median, only just under two thirds of the centres achieve the target for trastuzumab therapy. By far the most frequently cited reasons in these 113 centres were old age (69x) and co-morbidity or multimorbidity (e.g. concomitant cardiac disease) (68x). Other reasons given frequently were poor general condition (17x), rejection of therapy by the patient (11x) and secondary malignancies requiring further therapy (11x). The reasons given by the centres could be plausibilised in the vast majority of cases. In some cases, the auditors pointed out that old age alone is not a contraindication for trastuzumab therapy.

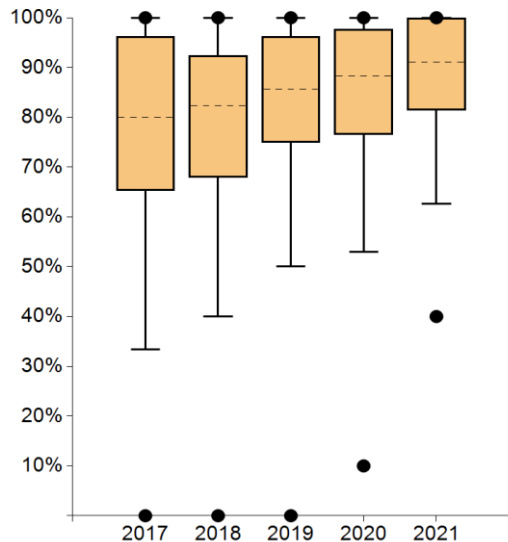
*The median for numerator and denominator does not refer to an existing centre, but reflects the median of all numerators of the cohort and the median of all denominators of the cohort.

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

9. Endocrine therapy for metastasis (GL QI)



	Definition of indicator	All clinical sites 2021		
		Median	Range	Patients Total
Numerator	Patients of the denominator, who were started on endocrine based therapy in the metastasised stage as first-line therapy	12*	1 - 69	4457
Denominator	Patients with steroid rec. pos. and HER2-negative inv. breast cancer with 1st Remote metastasis (incl. primary M1 pat.)	14,5*	1 - 72	5074
Rate	Target value ≥ 95%	91.11%	40.00% - 100%	87.84%**



	2017	2018	2019	2020	2021
Maximum	100%	100%	100%	100%	100%
95 th percentile	100%	100%	100%	100%	100%
75 th percentile	96.30%	92.45%	96.23%	97.67%	100%
Median	80.00%	82.35%	85.71%	88.24%	91.11%
25 th percentile	65.22%	67.87%	75.00%	76.47%	81.42%
5 th percentile	33.33%	40.00%	50.00%	52.94%	62.60%
Minimum	0.00%	0.00%	0.00%	10.00%	40.00%

Clinical sites with evaluable data		Clinical sites meeting the target value	
Number	%	Number	%
304	99.35%	122	40.13%

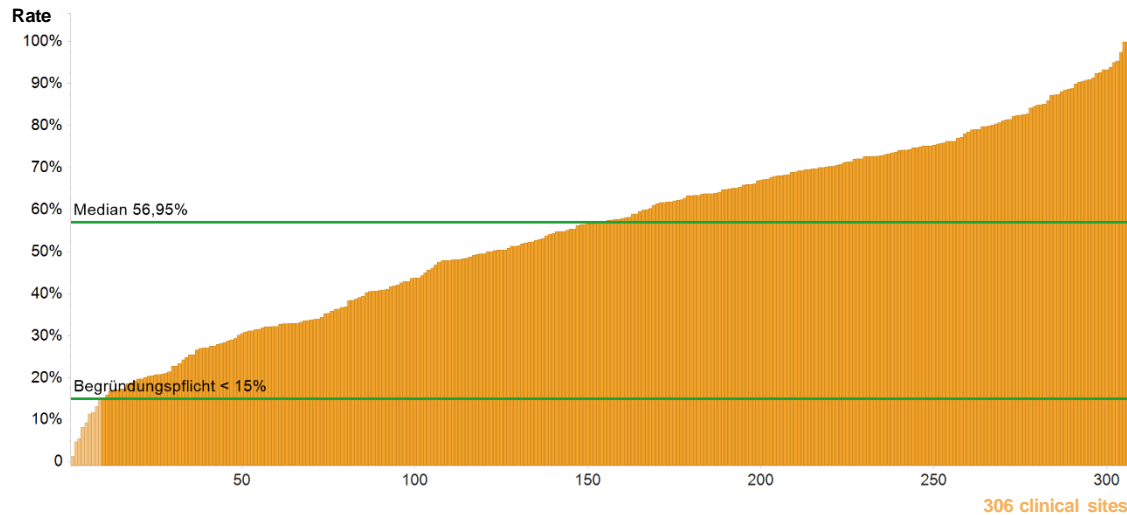
Comments:

The positive trend in meeting this QI of the guideline continues, especially in the lower percentiles. Nevertheless, a majority of centres (182) still fail to meet the target of at least 95%. By far the most frequent reason given by 102 centres was primary chemotherapy with high therapy pressure, followed by patients who died prematurely (69x), rejected endocrine therapies (54x), recommendation for best supportive care (24x) and only very weakly hormone receptor-positive tumour tissue (18x). In the vast majority of cases, the justifications were plausible. 1 centre received a deviation due to incomprehensible explanations.

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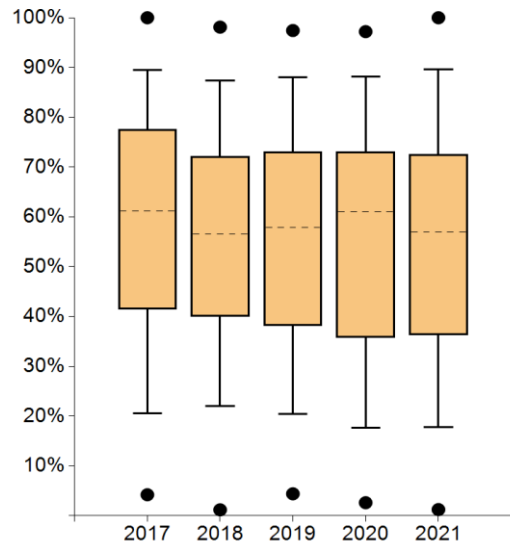
** Percentage of total patients treated in centres according to the numerator.

10. Psycho-oncological counselling (Consulation >25 min)



Begründungspflicht = mandatory statement for reason

	Definition of indicator	All clinical sites 2021		
		Median	Range	Patients Total
Numerator	Patients of the denominator who received psycho-oncological counselling in an inpatient or outpatient setting (duration of consultation ≥ 25 min)	125*	2 - 1015	43821
Denominator	Primary case Patients (= indicator 14a) + Patients with new (local) recurrence and/or distant metastases (= indicator 14b) (without primary M1 pat., since already included in the primary cases)	222*	54 - 1129	79847
Rate	Mandatory statement of reasons*** <15%	56.95%	1.23% - 100%	54.88%**



	2017	2018	2019	2020	2021
Maximum	100%	98.11%	97.43%	97.21%	100%
95 th percentile	89.54%	87.44%	88.10%	88.12%	89.65%
75 th percentile	77.60%	72.20%	73.03%	73.02%	72.51%
Median	61.23%	56.55%	57.83%	60.99%	56.95%
25 th percentile	41.46%	40.00%	38.10%	35.83%	36.25%
5 th percentile	20.60%	22.01%	20.47%	17,60%	17.73%
Minimum	4.21%	1.18%	4.40%	2.61%	1.23%

Clinical sites with evaluable data		Clinical sites meeting the plausibility limits	
Number	%	Number	%
306	100.00%	297	97.06%

Comments:

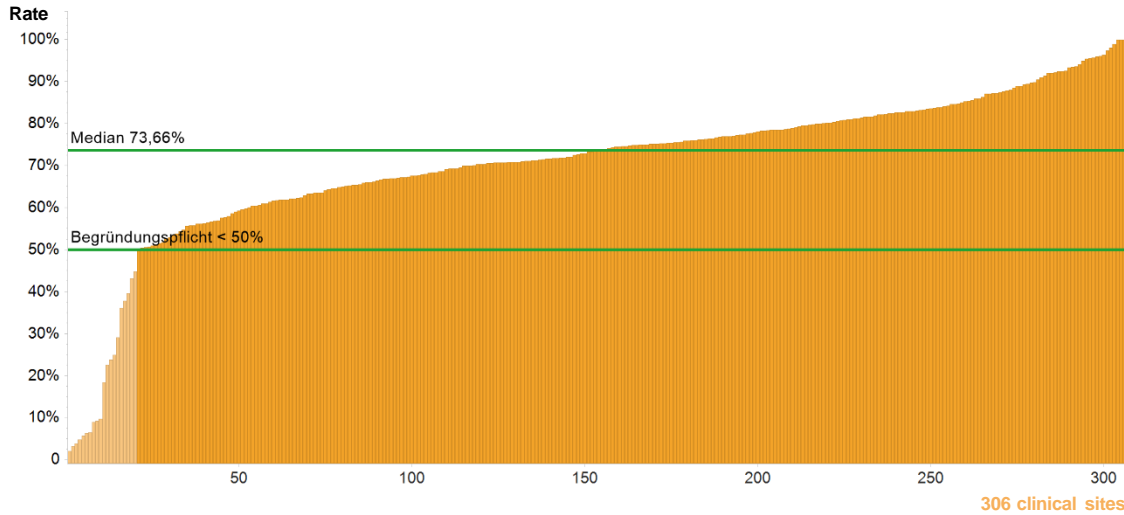
With the stable overall rate, the median has decreased. However, with 9 centres, 4 fewer than in the previous year are below the 15% mark. The reasons given by these centres ranged from low patient demand and staff shortages to documentation and data exchange problems. In the audits, some of the centres already announced that they would increase their personnel resources in the future.

The median for numerator and denominator does not refer to an existing centre, 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 centres according to the numerator

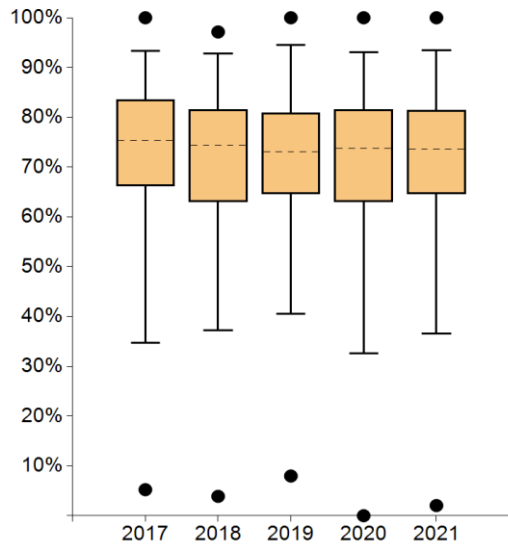
*** For values outside the plausibility limit(s), the centres are required to provide a justification..

11. Social service counselling



Begründungspflicht = mandatory statement for reason

	Definition of indicator	All clinical sites 2021		
		Median	Range	Patients Total
Numerator	Patients of the denominator who received counselling by social services in an inpatient or outpatient setting	157,5*	4 - 931	57291
Denominator	Primary case Patients (= indicator 14a) + Patients with new (local) recurrence and/or distant metastases (= indicator 14b) (without primary M1 pat., since already included in the primary cases)	222*	54 - 1129	79847
Rate	Mandatory statement of reasons*** <50%	73.66%	2.04% - 100%	71.75%**



	2017	2018	2019	2020	2021
Maximum	100%	97.14%	100%	100%	100%
95 th percentile	93.32%	92.79%	94.52%	93.12%	93.45%
75 th percentile	83.60%	81.61%	80.85%	81.50%	81.38%
Median	75.29%	74.41%	73.03%	73.71%	73.66%
25 th percentile	66.16%	63.07%	64.68%	62.99%	64.61%
5 th percentile	34.66%	37.20%	40.59%	32.54%	36.57%
Minimum	5.23%	3.89%	7.97%	0.00%	2.04%

Clinical sites with evaluable data		Clinical sites meeting the plausibility limits	
Number	%	Number	%
306	100.00%	286	93.46%

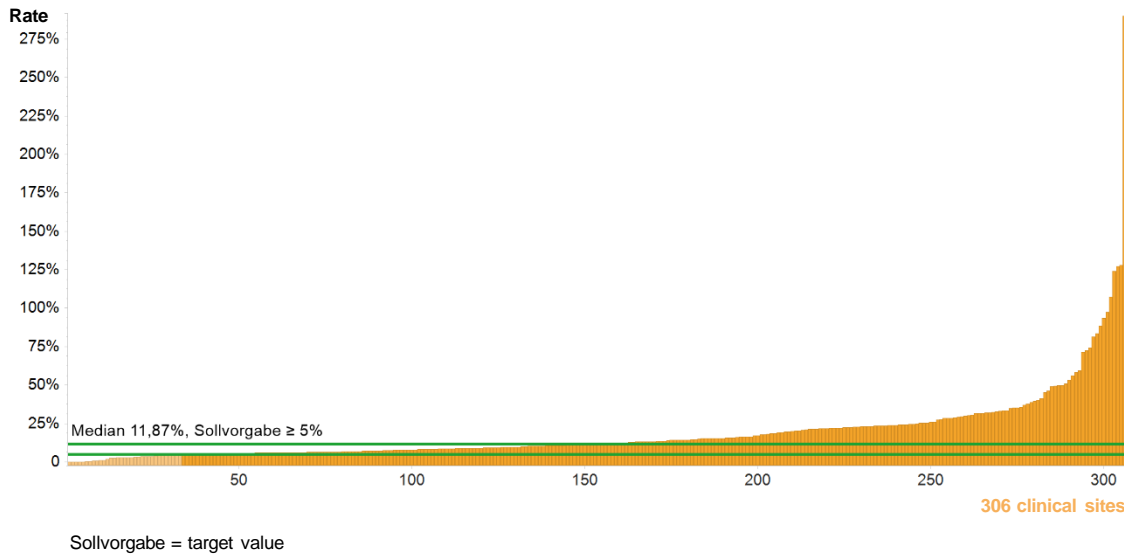
Comments:
 The rate of counselling by the social service is stable compared to the previous year. Of the 20 centres below 50%, 14 were located abroad, where other legal rights and responsibilities regarding social services apply. 5 centres reported little need for counselling on the part of the patients. Other reasons (e.g. documentation problems, omissions, staff shortages, Corona pandemic) were mentioned only occasionally. The centres reacted here partly with specific measures.

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

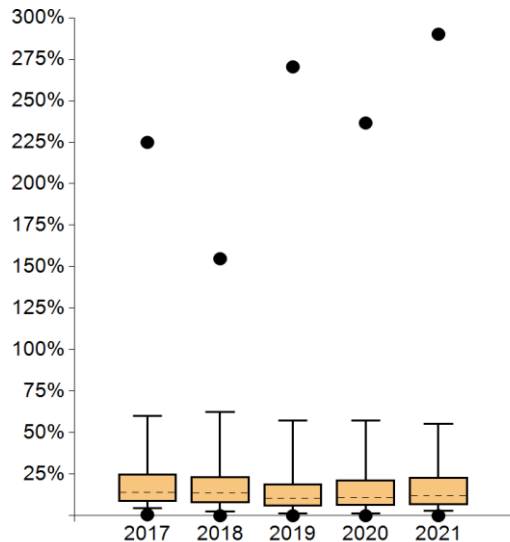
** Percentage of total patients treated in centres according to the numerator

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

12. Patients enrolled in a study



	Definition of indicator	All clinical sites 2021		
		Median	Range	Patients Total
Numerator	Patients who were included in a study with an ethical vote	24*	0 - 818	14785
Denominator	Primary cases	187,5*	53 - 964	68092
Rate	Target value \geq 5%	11.87%	0.00% - 290.07%	21.71%**



	2017	2018	2019	2020	2021
Maximum	224.90%	154.80%	270.40%	236.58%	290.07%
95 th percentile	60.09%	62.39%	57.35%	57.36%	55.51%
75 th percentile	25.12%	23.61%	19.04%	21.45%	23.07%
Median	13.99%	13.63%	10.37%	10.74%	11.87%
25 th percentile	8.39%	7.49%	5.71%	6.17%	6.65%
5 th percentile	4.35%	2.72%	1.30%	1.25%	2.85%
Minimum	0.56%	0.00%	0.00%	0.00%	0.00%

Clinical sites with evaluable data		Clinical sites meeting the target value	
Number	%	Number	%
306	100.00%	273	89.22%

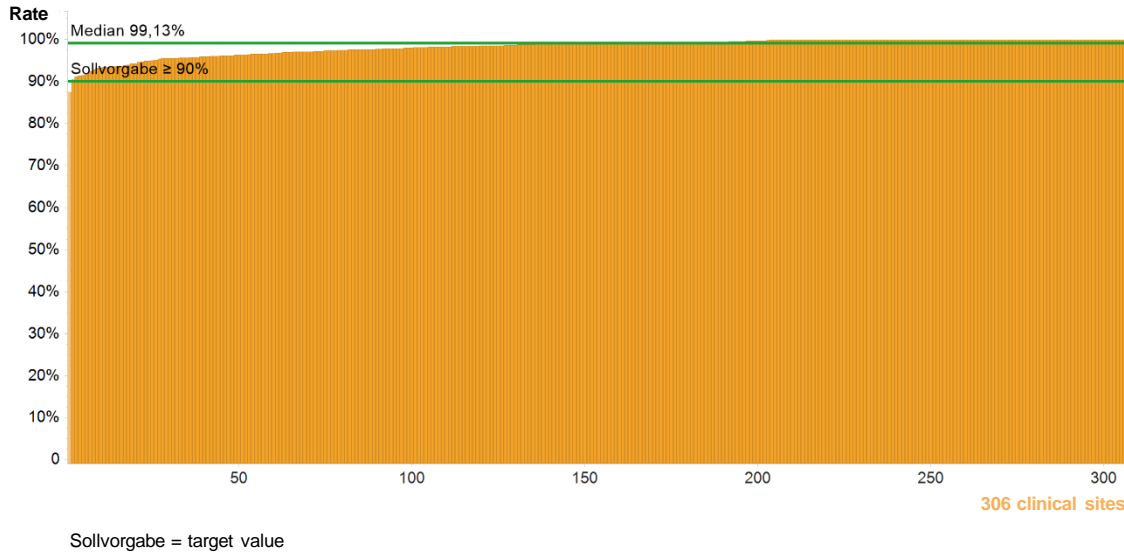
Comments:

The median study rate has improved slightly. The number of centres below the target value has also dropped significantly from 51 to 33. The most frequent reason cited by 8 centres was still the Corona pandemic, followed by non-fulfilment of inclusion criteria (6x), staff shortages (5x), low willingness of patients to participate (4x) and few suitable studies (4x). Accordingly, measures included increasing staff, cooperation with external partners and the establishment of new studies. In many cases, the auditors made remarks on how to increase the study quota in the future.

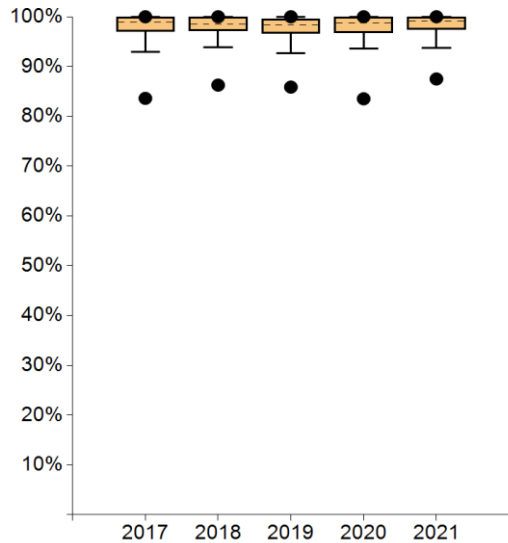
*The median for numerator and denominator does not refer to an existing centre, but reflects the median of all numerators of the cohort and the median of all denominators of the cohort.

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

13. Pretherapeutic histological confirmation (GL QI)



	Definition of indicator	All clinical sites 2021		
		Median	Range	Patients Total
Numerator	Primary cases of the denominator with pretherapeutic histological diagnosis confirmation by punch or vacuum-assisted biopsy	153*	41 - 893	57007
Denominator	Primary cases with initial surgery and histology of invasive breast cancer or DCIS	155*	42 - 898	57962
Rate	Target value ≥ 90%	99.13%	87.50% - 100%	98.35%**



	2017	2018	2019	2020	2021
Maximum	100%	100%	100%	100%	100%
95 th percentile	100%	100%	100%	100%	100%
75 th percentile	100%	100%	99.59%	100%	100%
Median	98.89%	98.54%	98.41%	98.78%	99.13%
25 th percentile	97.04%	97.11%	96.63%	96.74%	97.41%
5 th percentile	92.95%	93.81%	92.66%	93.53%	93.75%
Minimum	83.61%	86.27%	85.87%	83.52%	87.50%

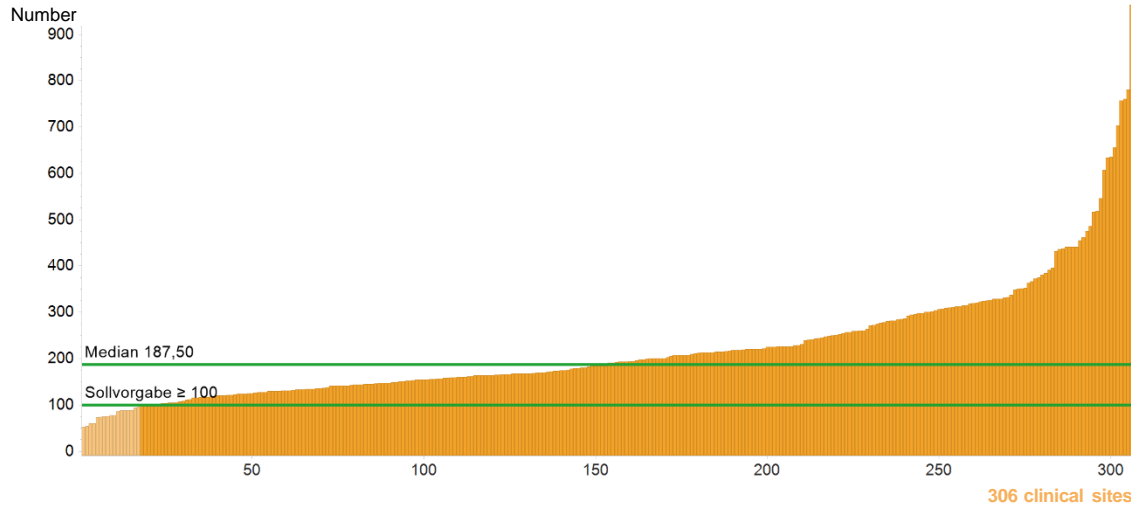
Clinical sites with evaluable data		Clinical sites meeting the target value	
Number	%	Number	%
306	100.00%	305	99.67%

Comments:
 The centres have been implementing the GL-QI consistently at a very high level for years. In 98.4% of primary cases (previous year: 98.0%), histological confirmation was performed before therapy. In 103 centres, the cancer was confirmed by biopsy in all patients without exception (previous year: 90) before therapy was initiated. In the centre with a rate <90%, 11% of the patients or their guardians refused a preoperative punch biopsy.

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

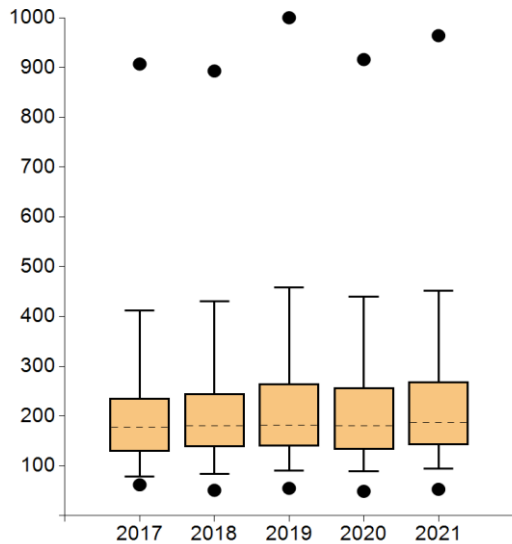
** Percentage of total patients treated in centres according to the numerator.

14a. Primary cases breast cancer



Sollvorgabe = target value

	Definition of indicator	All clinical sites 2021		
		Median	Range	Patients Total
Number	Primary Cases	187,5	53 - 964	68092
	Target value ≥ 100			



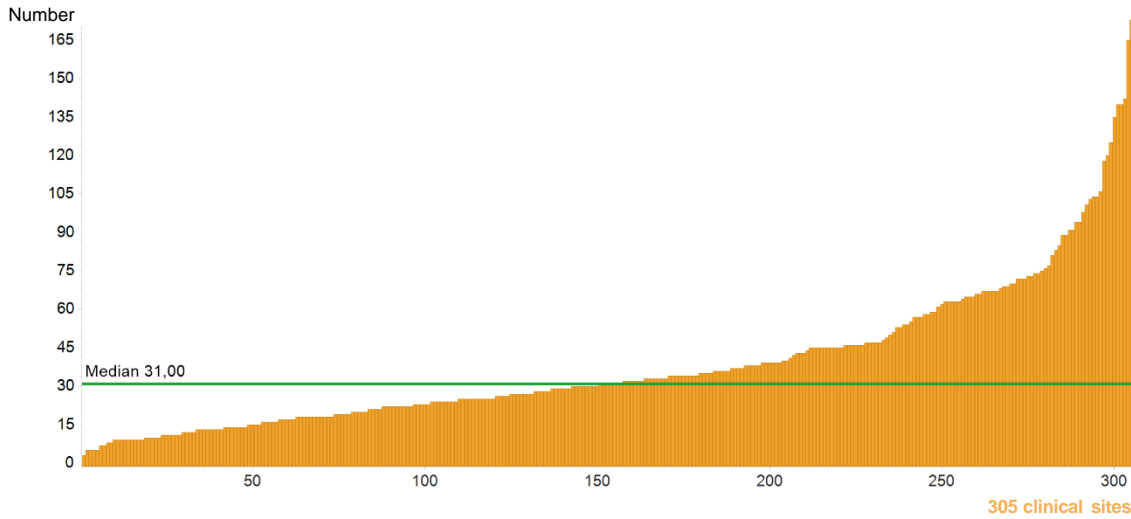
	2017	2018	2019	2020	2021
Maximum	907,00	893,00	1000,00	916,00	964,00
95 th percentile	411,90	430,75	457,80	439,30	451,50
75 th percentile	236,50	245,25	265,50	256,50	269,25
Median	178,00	180,50	182,00	180,00	187,50
25 th percentile	128,25	137,75	140,00	132,50	142,00
5 th percentile	78,00	84,25	90,00	89,10	94,50
Minimum	62,00	51,00	55,00	49,00	53,00

Clinical sites with evaluable data		Clinical sites meeting the target value	
Number	%	Number	%
306	100.00%	289	94.44%

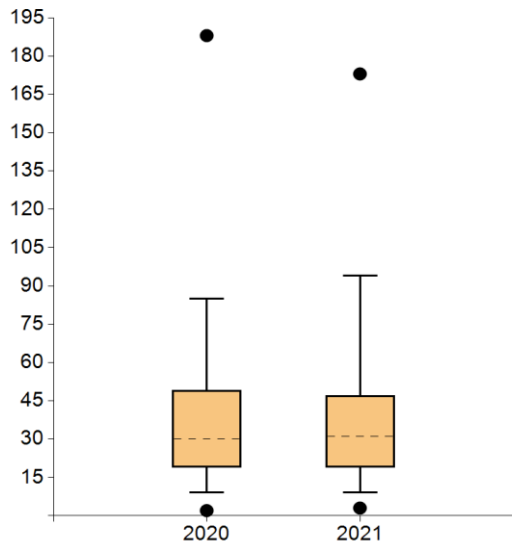
Comments:

After a decline in the number of primary cases of a good 4% in the first year of the covid pandemic, the number of primary treatments increased strongly again across the entire range in 2021 (+6.9%). This means that for the median and the 25th and 75th percentiles, respectively, it is at the highest level since the annual reports were compiled. In multi-site centres, the number of sites with <100 primary cases has decreased to a total of 12 (previous year 23). Based on the current incidence from 2019 of 78,135 (www.krebsdaten.de), the coverage of primary cases treated in the German centres is 84%.

14b. Patients with 1st (local) recurrence and/or distant metastasis (without primary M1 patients)



	Definition of indicator	All clinical sites 2021		
		Median	Range	Patients Total
Number	Patients with 1st (local) recurrence and/or distant metastasis (without primary M1 patients)	31	3 - 173	11755
	No target value			

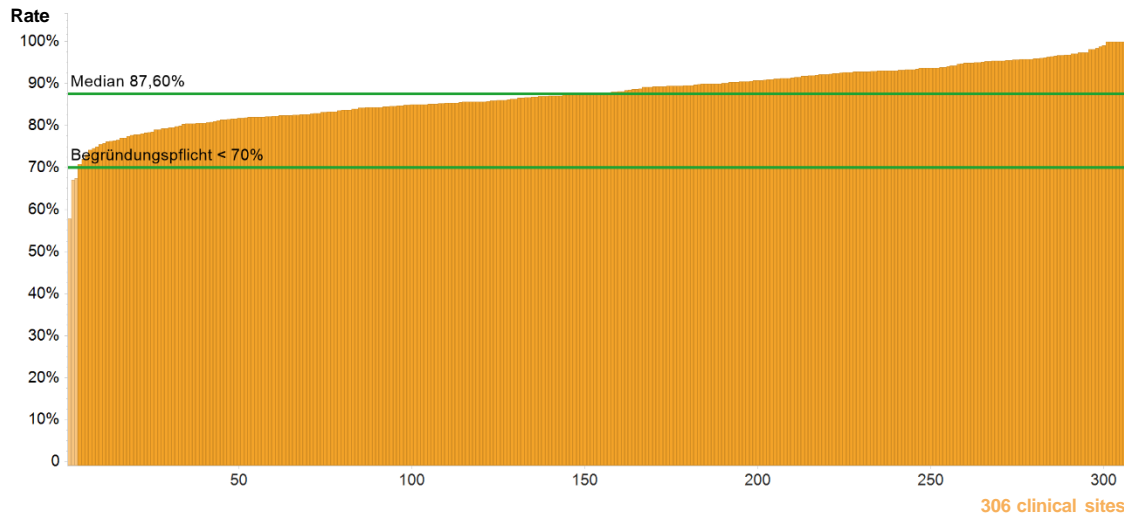


	2017	2018	2019	2020	2021
Maximum	----	----	----	188,00	173,00
95 th percentile	----	----	----	85,00	94,00
75 th percentile	----	----	----	49,00	47,00
Median	----	----	----	30,00	31,00
25 th percentile	----	----	----	19,00	19,00
5 th percentile	----	----	----	9,00	9,00
Minimum	----	----	----	2,00	3,00

Clinical sites with evaluable data		Clinical sites meeting the target value	
Number	%	Number	%
305	99.67%	----	----

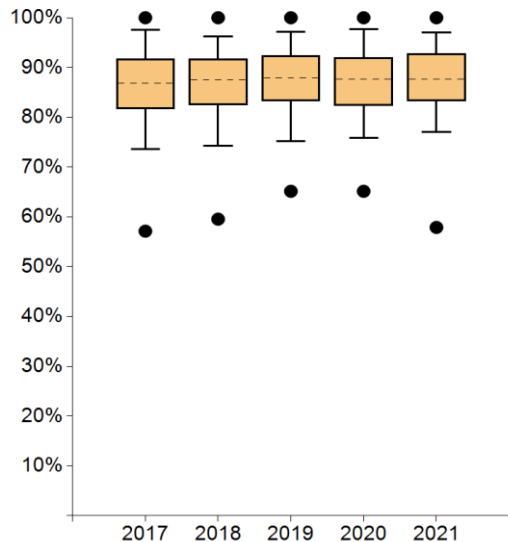
Comments:
 The number of patients with a new (local) recurrence and/or distant metastases increased by just under 3% with an increase of 4 centres (+1.3%) and is thus almost unchanged compared to the previous year. On average, 31 patients (min. 3, max. 173) were treated due to first recurrence and/or distant metastasis.

15. Number of surgical procedures for R0 resection for Breast Conserving procedure (BCT) Certification



	Definition of indicator	All clinical sites 2021		
		Median	Range	Patients Total
Numerator	Primary cases of the denominator with only one surgical procedure up to final surgical condition BCT	99,5*	28 - 671	36718
Denominator	Surgical primary cases with BCT and R0	112*	34 - 737	41911
Rate	Mandatory statement of reasons*** < 70%	87.60%	57.89% - 100%	87.61%**

Begründungspflicht = mandatory statement for reason



	2017	2018	2019	2020	2021
Maximum	100%	100%	100%	100%	100%
95 th percentile	97.62%	96.30%	97.11%	97.73%	97.09%
75 th percentile	91.79%	91.70%	92.45%	91.97%	92.78%
Median	86.83%	87.48%	87.95%	87.62%	87.60%
25 th percentile	81.73%	82.52%	83.24%	82.35%	83.33%
5 th percentile	73.64%	74.27%	75.23%	75.87%	77.05%
Minimum	57.14%	59.55%	65.15%	65.15%	57.89%

Clinical sites with evaluable data		Clinical sites meeting the plausibility limits	
Number	%	Number	%
306	100.00%	303	99.02%

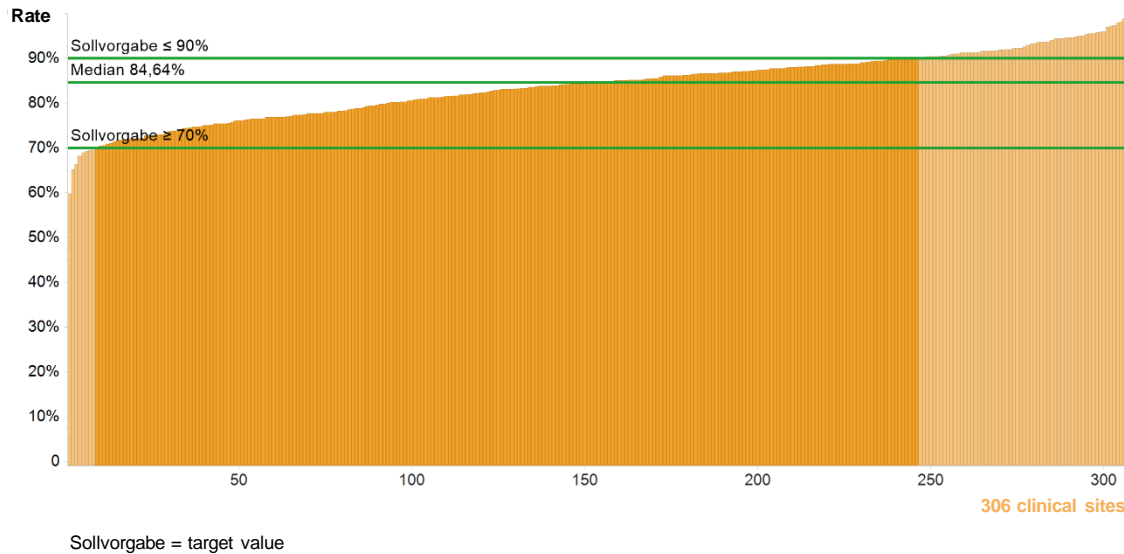
Comments:
The fulfilment of the indicator has been stable at a high level for years. As in the previous year, more than 99% of the centres are above the plausibility limit of 70%. In almost 88% of the primary cases operated on with BCT, an R0 status was achieved with the first operation. 3 centres (with inconspicuous indicator in the previous year) had rates <70%. The cases were considered in the audits. After initiating measures, one centre already showed an improved rate in the first half of the year.

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

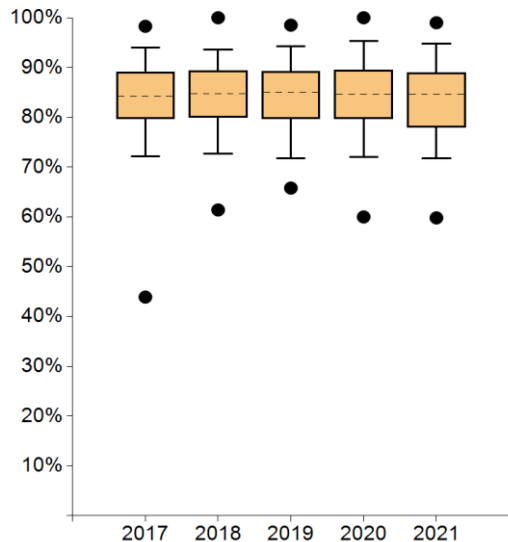
** Percentage of total patients treated in centres according to the numerator

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

16. Breast-conserving procedure (BCT) for pT1



	Definition of indicator	All clinical sites 2021		
		Median	Range	Patients Total
Numerator	Primary cases of the denominator with BCT (final surgical condition)	65*	19 - 531	24173
Denominator	Surgical primary cases with pT1 (incl. (y)pT1)	78*	20 - 626	28936
Rate	Target value 70 - 90%	84.64%	59.81% - 98.99%	83.54%**



	2017	2018	2019	2020	2021
Maximum	98.28%	100%	98.51%	100%	98.99%
95 th percentile	94.02%	93.55%	94.30%	95.30%	94.72%
75 th percentile	89.03%	89.39%	89.21%	89.54%	88.99%
Median	84.16%	84.67%	85.05%	84.62%	84.64%
25 th percentile	79.69%	80.00%	79.64%	79.73%	78.01%
5 th percentile	72.21%	72.73%	71.74%	72.01%	71.73%
Minimum	43.90%	61.40%	65.79%	60.00%	59.81%

Clinical sites with evaluable data		Clinical sites meeting the target value	
Number	%	Number	%
306	100.00%	238	77.78%

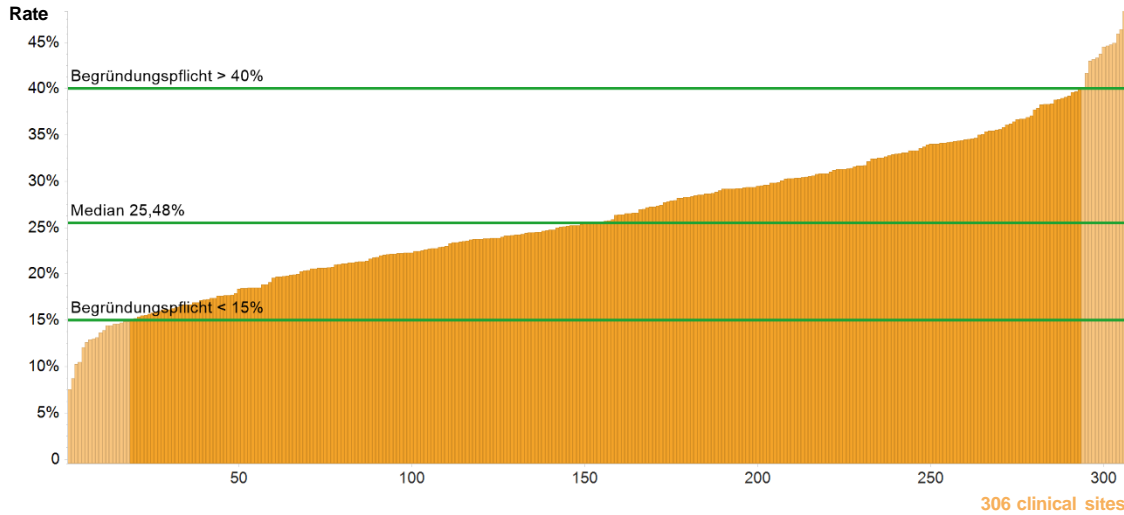
Comments:

The proportion of BCT for (y)pT1 tumours has also remained constant for years at 84% (median). With 238 clinical sites, 11 more facilities compared to the previous year are within the target corridor (≥70% or ≤90%). Reasons for rates <70% were in particular multicentric cancers, male gender, gene mutations and the explicit patient wish for ablation. The centres with rates >90% stated that they inform the patients with no tendency for one therapy or another and that BCT is not associated with an increased R1 rate. In addition, neoadjuvant systemic therapies and oncoplastic surgical procedures would enable a higher proportion of BCT operations.

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

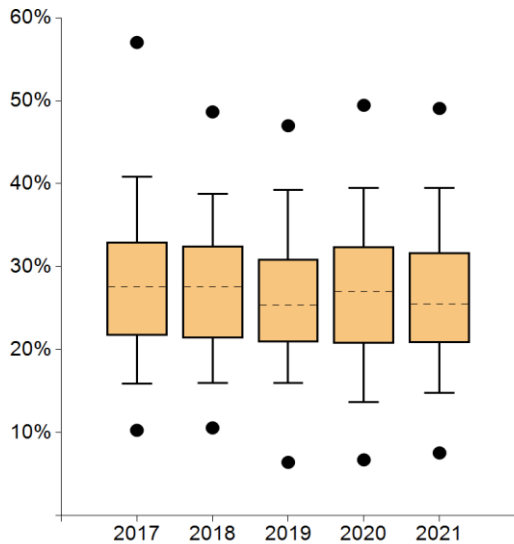
** Percentage of total patients treated in centres according to the numerator.

17. Mastectomies



	Definition of indicator	All clinical sites 2021		
		Median	Range	Patients Total
Numerator	Primary cases of the nominator with mastectomies (final surgical stage)	40*	7 - 257	15487
Denominator	Surgical primary cases	155*	42 - 898	57962
Rate	Mandatory statement for reasons*** <15% and >40%	25.48%	7.56% - 49.07%	26.72%**

Begründungspflicht = mandatory statement for reason



	2017	2018	2019	2020	2021
Maximum	57.02%	48.65%	46.99%	49.45%	49.07%
95 th percentile	40.82%	38.77%	39.26%	39.51%	39.51%
75 th percentile	32.95%	32.49%	30.94%	32.43%	31.68%
Median	27.60%	27.56%	25.38%	27.03%	25.48%
25 th percentile	21.66%	21.37%	20.94%	20.75%	20.82%
5 th percentile	15.91%	16.00%	16.00%	13.69%	14.78%
Minimum	10.29%	10.58%	6.43%	6.73%	7.56%

Clinical sites with evaluable data		Clinical sites within the plausibility limits	
Number	%	Number	%
306	100.00%	275	89.87%

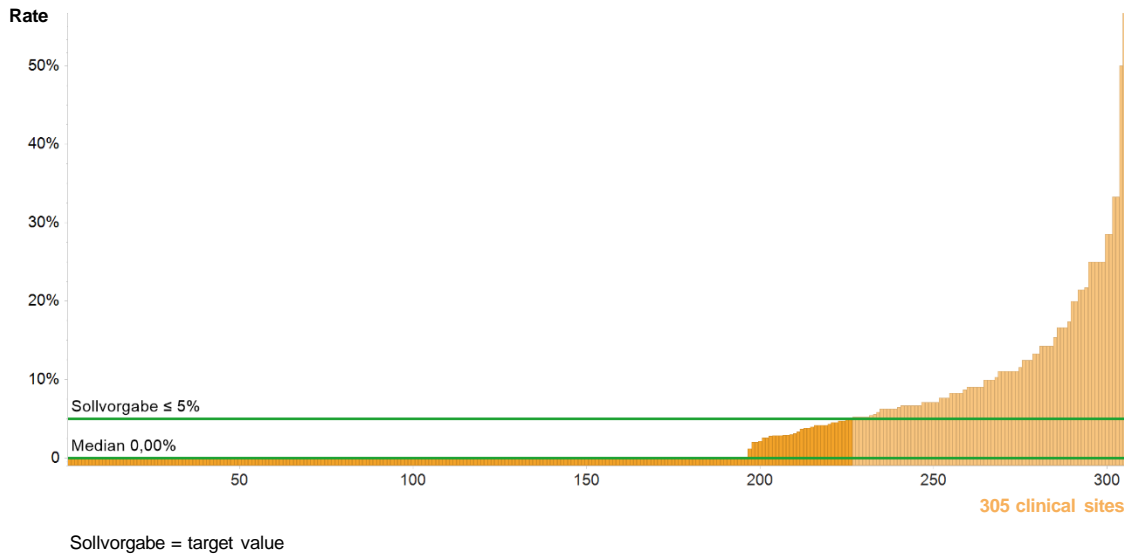
Comments:
 With 770 procedures, the number of mastectomies in primary cases increased by about 5.2%; the increase is thus a little lower than the increase in the number of primary cases (+ 6.9%). As in the previous year, almost 90% of the centres are within the plausibility corridor. 18 centres have a rate <15% (previous year 19) and 13 a rate >40% (previous year 14). The centres justified undercutting or exceeding of plausibility limit in particular with the patient request and the proportion of multicentric/focal or exulcerated and/or inflammatory tumours. In addition, the centres justified rates >40% with BRCA mutations/familial burden, unfavourable tumour-breast relations, extensive DCIS and tumours in men.

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

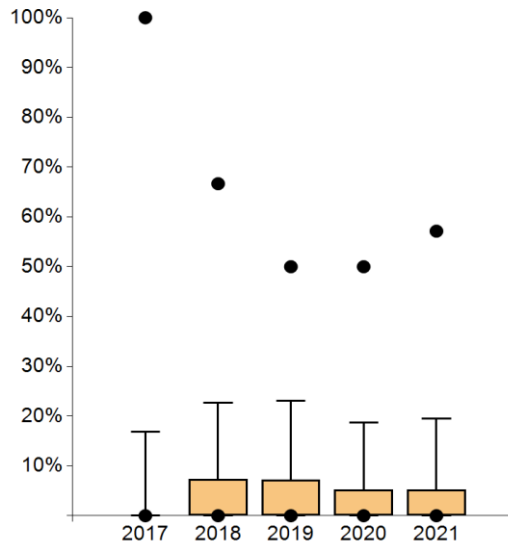
** Percentage of total patients treated in centres according to the numerator

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

18. Lymph node removal in the case of DCIS (GL QI)



	Kennzahlendefinition	All clinical sites 2021		
		Median	Range	Patienten Gesamt
Numerator	Primary cases of the denominator with axillary lymph node removal (primary axillary lymph node removal or sentinel lymph node removal)	0*	0 - 5	170
Denominator	Primary cases DCIS and completed surgical therapy and BCT	13*	1 - 85	4903
Rate	Target value ≤ 5%	0.00%	0.00% - 57.14%	3.47%**



	2017	2018	2019	2020	2021
Maximum	100%	66.67%	50.00%	50.00%	57.14%
95 th percentile	16.82%	22.61%	23.08%	18.75%	19.48%
75 th percentile	0.00%	7.28%	7.14%	5.26%	5.26%
Median	0.00%	0.00%	0.00%	0.00%	0.00%
25 th percentile	0.00%	0.00%	0.00%	0.00%	0.00%
5 th percentile	0.00%	0.00%	0.00%	0.00%	0.00%
Minimum	0.00%	0.00%	0.00%	0.00%	0.00%

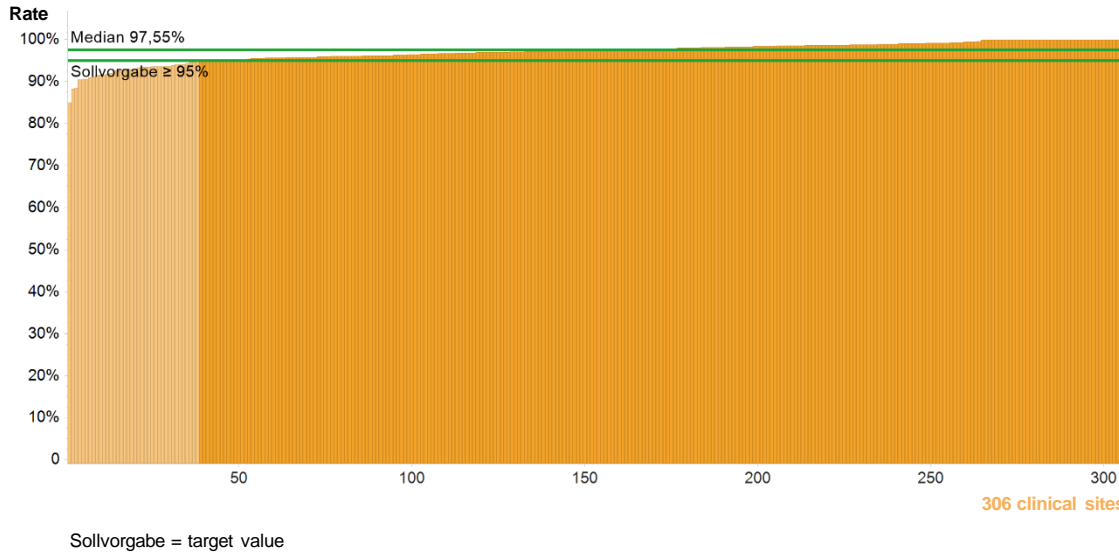
Clinical sites with evaluable data		Clinical sites meeting the target value	
Number	%	Number	%
305	99.67%	226	74.10%

Comments:
 The positive development of the GL-QI has not continued in the current indicator year, so that the overall rate remains unchanged at 3.5%. The proportion of clinical sites fulfilling the target value is stable at 74%. In most cases, surgical removal of the lymph nodes was performed because of suspected invasiveness and/or size of the tumour/extension of the microcalcifications or tumour localisation. The auditors formulated a deviation in an audit of regular SLN biopsy in patients with DCIS > 5cm and BCT. The 2 centres with the highest rates had a small population in the denominator (3 and 7 cases respectively). The auditors conducted a detailed case-by-case review.

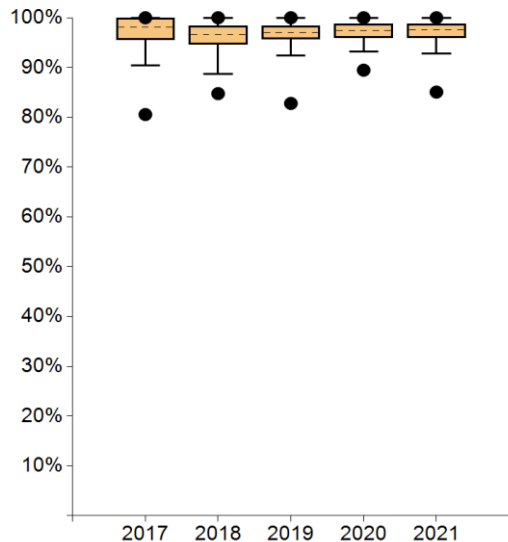
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** Percentage of total patients treated in centres according to the numerator.

19. Determination of nodal status in case of invasive breast cancer



	Definition of indicator	All clinical sites 2021		
		Median	Range	Patients Total
Numerator	Primary cases of the denominator for which nodal status was determined	131*	37 - 747	48808
Denominator	Surgical primary cases with invasive breast cancer (without primary M1)	134,5*	37 - 760	50232
Rate	Target value \geq 95%	97.55%	85.07% - 100%	97.17%**



	2017	2018	2019	2020	2021
Maximum	100%	100%	100%	100%	100%
95 th percentile	100%	100%	100%	100%	100%
75 th percentile	100%	98.29%	98.32%	98.81%	98.80%
Median	98.04%	96.66%	97.07%	97.48%	97.55%
25 th percentile	95.59%	94.68%	95.70%	95.91%	96.00%
5 th percentile	90.38%	88.72%	92.36%	93.16%	92.79%
Minimum	80.56%	84.76%	82.79%	89.47%	85.07%

Clinical sites with evaluable data		Clinical sites meeting the target value	
Number	%	Number	%
306	100.00%	268	87.58%

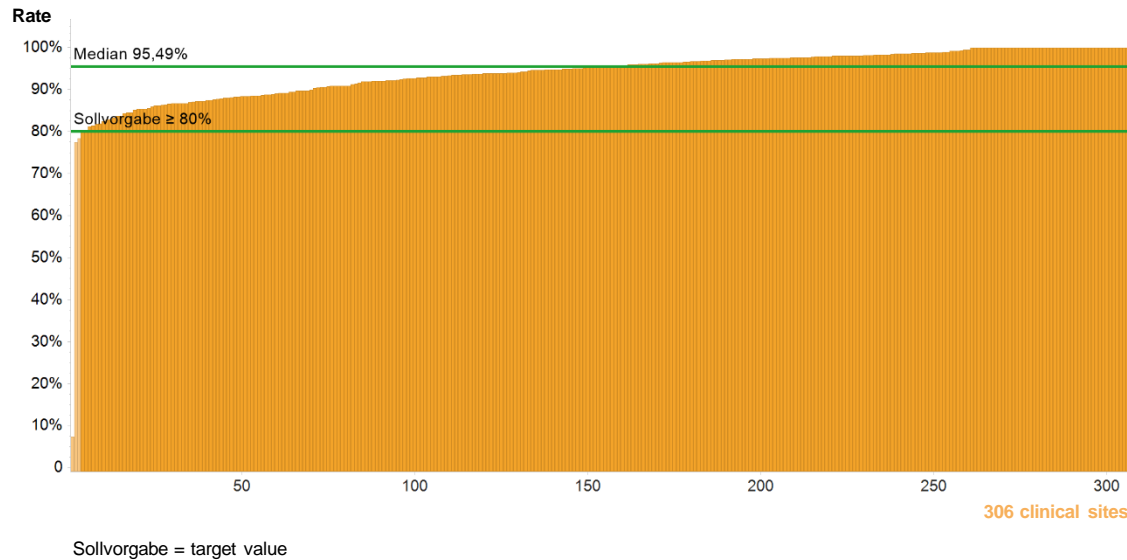
Comments:

The determination of nodal status in operated primary cases with invasive cancer is carried out by the centres at the usual high level. Almost 88% of the centres fulfilled the target value of 95%. The centres with a lower rate justified this by omitting examinations in the absence of therapeutic consequences due to age and/or secondary diseases (20x), second cancers (5x) or palliative situations (1x). 20 centres stated that patients had refused invasive diagnostics. Other reasons were unidentifiable sentinel LNs (7x), patients enrolled in a study (EUBREAST, 5x) and first diagnosis of invasive cancer in DCIS in the preoperative biopsies (4x). The justifications were checked for plausibility in the audits.

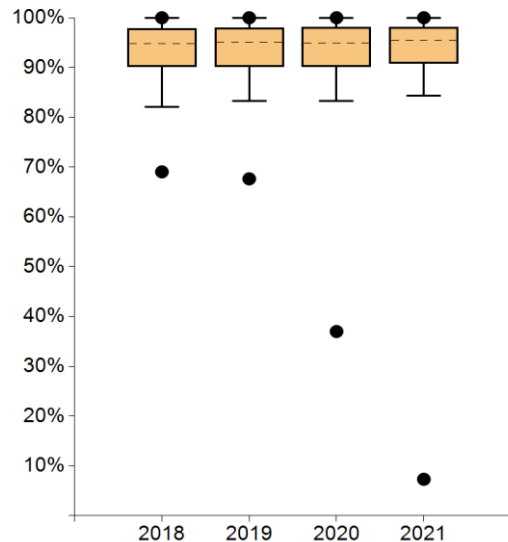
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** Percentage of total patients treated in centres according to the numerator.

20a. Only sentinel lymphonodectomy (SLNE) for pN0 (women) (GL QI)



	Definition of indicator	All clinical sites 2021		
		Median	Range	Patients Total
Numerator	Primary cases of the denominator with only sentinel node biopsy (SLNE)	73*	6 - 437	26150
Denominator	Female primary cases of invasive breast cancer and negative pN staging and without preoperative tumour-specific therapy	78*	14 - 442	27776
Rate	Target value ≥ 80%	95.49%	7.32% - 100%	94.15%**



	2017	2018	2019	2020	2021
Maximum	-----	100%	100%	100%	100%
95 th percentile	-----	100%	100%	100%	100%
75 th percentile	-----	97.89%	97.96%	98.15%	98.10%
Median	-----	94.74%	95.05%	94.87%	95.49%
25 th percentile	-----	90.19%	90.11%	90.14%	90.85%
5 th percentile	-----	82.06%	83.30%	83.33%	84.37%
Minimum	-----	69.05%	67.65%	36.99%	7.32%

Clinical sites with evaluable data		Clinical sites meeting the target value	
Number	%	Number	%
306	100.00%	303	99.02%

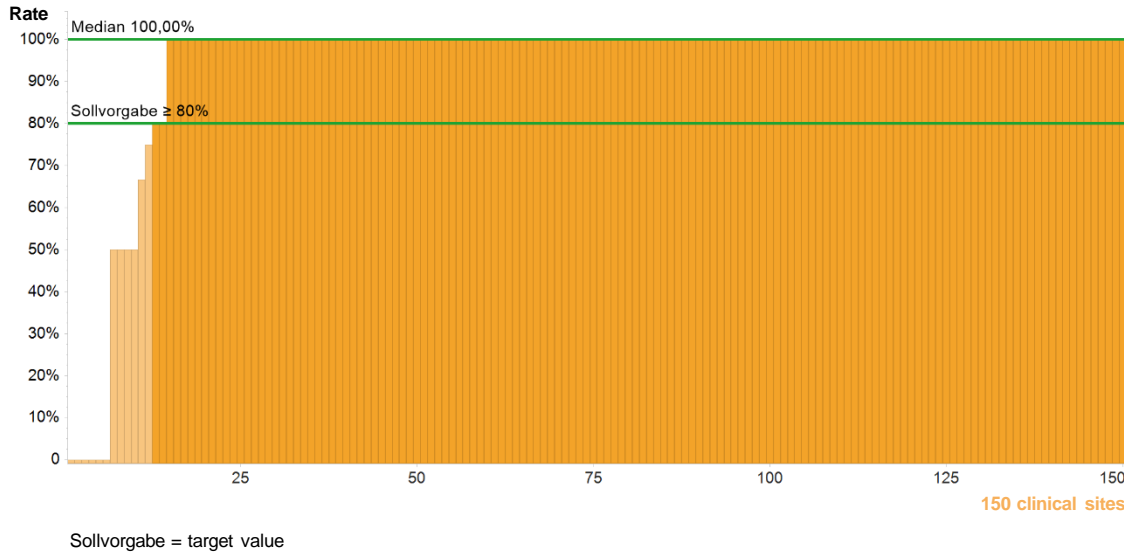
Comments:

The GL-QI has been constantly well implemented by the centres for years. Only 3 centres (previous year 1) did not meet the target value. In most cases, the centres removed further lymph nodes due to an unidentifiable sentinel lymph node or primarily performed sampling in the case of an exulcerating tumour. 2 centres have regularly (e.g. after blue staining) taken a further (non-sentinel) lymph node in addition to the sentinel lymph node. In addition, patients have refused a sentinel biopsy in individual cases.

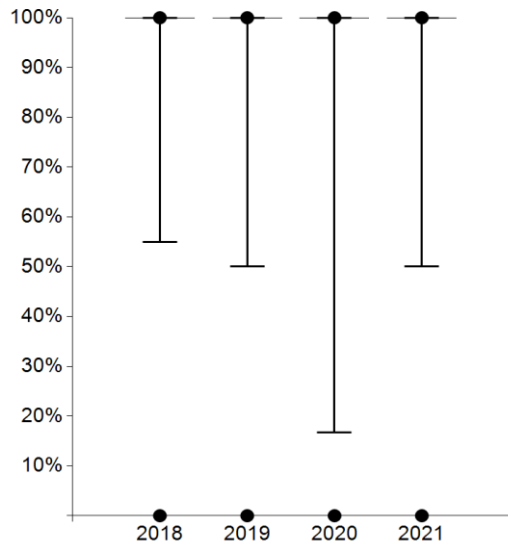
*The median for numerator and denominator does not refer to an existing centre, but reflects the median of all numerators of the cohort and the median of all denominators of the cohort.

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

20b. Only sentinel lymphonodectomy (SLNE) for pN0 (men) (GL QI)



	Definition of indicator	All clinical sites 2021		
		Median	Range	Patients Total
Numerator	Primary cases of the denominator with only sentinel node biopsy (SLNE)	1*	0 - 5	220
Denominator	Male primary cases of invasive breast cancer and negative pN staging and without preoperative tumour-specific therapy	1*	1 - 5	235
Rate	Target value $\geq 80\%$	100%	0.00% - 100%	93.62%**



	2017	2018	2019	2020	2021
Maximum	-----	100%	100%	100%	100%
95 th percentile	-----	100%	100%	100%	100%
75 th percentile	-----	100%	100%	100%	100%
Median	-----	100%	100%	100%	100%
25 th percentile	-----	100%	100%	100%	100%
5 th percentile	-----	55.00%	50.00%	16.67%	50.00%
Minimum	-----	0.00%	0.00%	0.00%	0.00%

Clinical sites with evaluable data		Clinical sites meeting the target value	
Number	%	Number	%
150	49.02%	138	92.00%

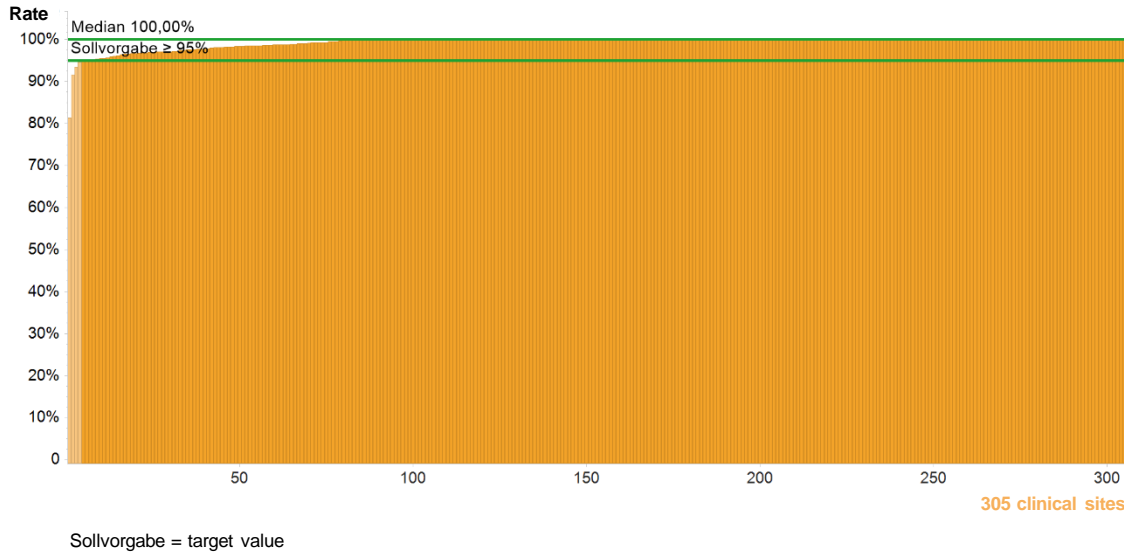
Comments:

The number of male primary cases continued to increase in the indicator year 2021 to a total of 556 new cases (+ 5.5%). In > 90% of the centres, all primary cases of the denominator received sentinel lymph node removal only; in 12 centres (previous year 13), additional lymph nodes were removed. In most cases, the centres justified this with unidentifiable sentinel lymph nodes or the presentation of several lymph nodes and sonographic / clinical lymph node involvement.

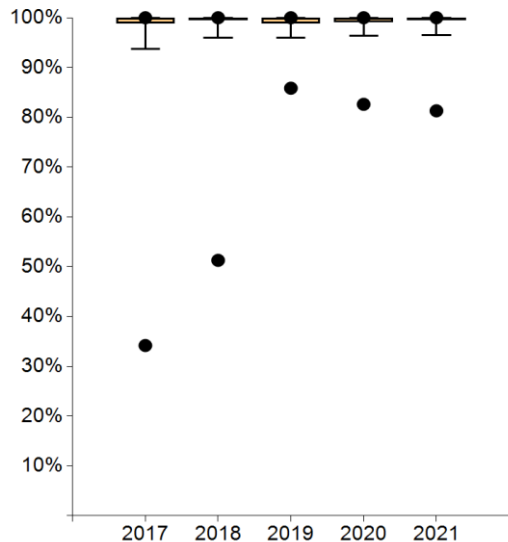
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** Percentage of total patients treated in centres according to the numerator.

21. Intraoperative sample radiography / sonography (GL QI)



	Definition of indicator	All clinical sites 2021		
		Median	Range	Patients Total
Numerator	Procedures of the denominator with intraoperative sample x-ray or with intraoperative sample sonography	82*	4 - 615	31748
Denominator	Surgical procedures with preoperative wire marking guided by mammography or sonography	82*	4 - 616	31954
Rate	Target value ≥ 95%	100%	81.31% - 100%	99.36%**



	2017	2018	2019	2020	2021
Maximum	100%	100%	100%	100%	100%
95 th percentile	100%	100%	100%	100%	100%
75 th percentile	100%	100%	100%	100%	100%
Median	100%	100%	100%	100%	100%
25 th percentile	98.83%	99.52%	98.84%	99.17%	99.57%
5 th percentile	93.71%	96.00%	95.97%	96.37%	96.51%
Minimum	34.18%	51.28%	85.85%	82.61%	81.31%

Clinical sites with evaluable data		Clinical sites meeting the target value	
Number	%	Number	%
305	99.67%	301	98.69%

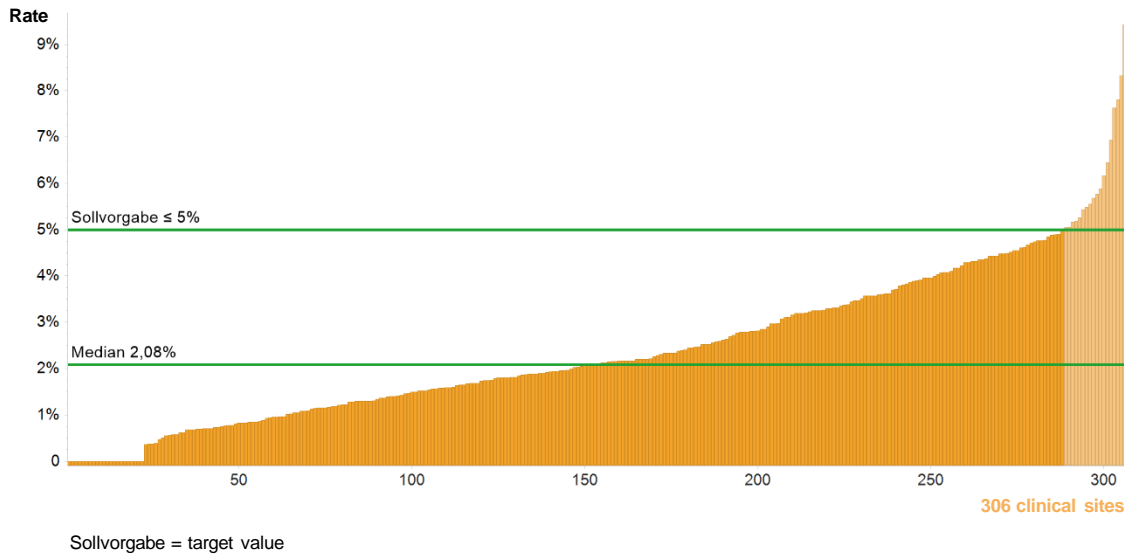
Comments:

The GL-QI is implemented almost completely and to a sufficient extent in practically all centres. The 4 centres with rates <95% stated that they had not carried out the required examinations to a sufficient extent (2x) due to easily palpable tumours. 2 centres pointed out deficits in documentation and reacted here, among other things, by creating an SOP.

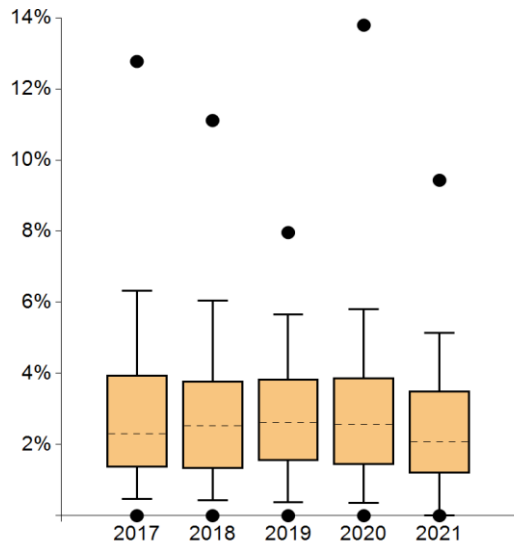
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** Percentage of total patients treated in centres according to the numerator.

22. Revision surgeries



	Definition of indicator	All clinical sites 2021		
		Median	Range	Patients Total
Numerator	Primary cases of the denominator with revision surgeries as a consequence of postoperative complications (only surgical primary cases)	3*	0 - 33	1378
Denominator	Surgical primary cases	155*	42 - 898	57962
Rate	Target value ≤ 5%	2.08%	0.00% - 9.43%	2.38%**



	2017	2018	2019	2020	2021
Maximum	12.77%	11.11%	7.96%	13.79%	9.43%
95 th percentile	6.33%	6.05%	5.65%	5.80%	5.14%
75 th percentile	3.95%	3.78%	3.85%	3.88%	3.51%
Median	2.30%	2.52%	2.61%	2.56%	2.08%
25 th percentile	1.36%	1.33%	1.54%	1.44%	1.19%
5 th percentile	0.48%	0.43%	0.38%	0.36%	0.00%
Minimum	0.00%	0.00%	0.00%	0.00%	0.00%

Clinical sites with evaluable data		Clinical sites meeting the target value	
Number	%	Number	%
306	100.00%	288	94.12%

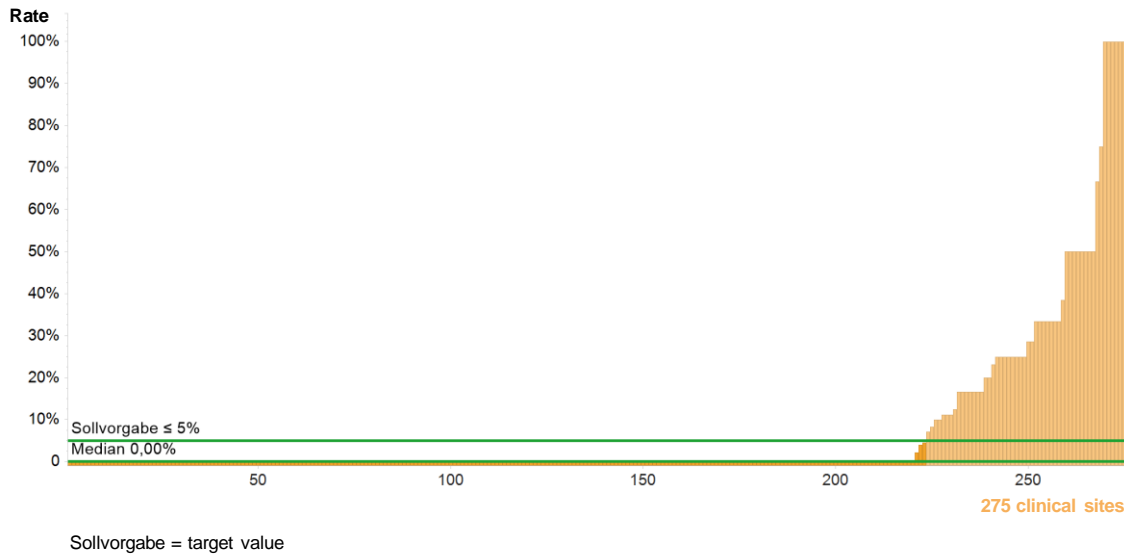
Comments:

The continuous positive development of the revision rate has also continued in 2021 across the entire range. The centres with rates above the target value revised the patients in particular due to post-operative bleeding and haematoma. Other indications were seromas, wound infections and dehiscence. Of 29 clinical sites with conspicuous indicator in the previous year, 26 sites were able to reduce the revision rate, so that only 3 sites with rates of max. 5.9% were conspicuous again.

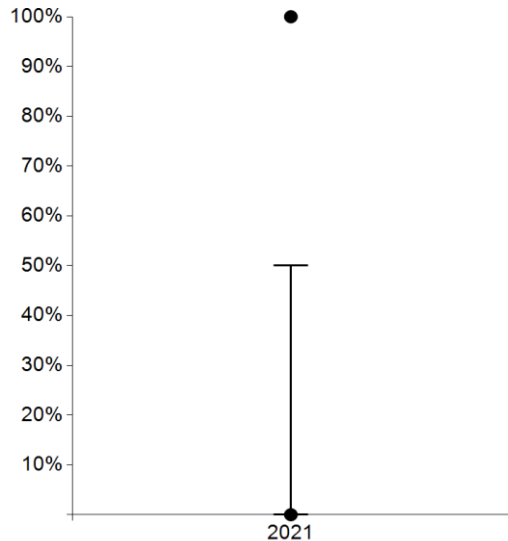
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** Percentage of total patients treated in centres according to the numerator.

23. Therapy of the axillary lymphatic drainage for pN1mi (GL QI)



	Definition of indicator	All clinical sites 2021		
		Median	Range	Patients Total
Numerator	Primary cases of the denominator with therapy (axillary dissection or radiotherapy) of the axillary lymphatic drainage	0*	0 - 6	79
Denominator	Primary cases invasive breast cancer, pN1mi without neoadj. chemotherapy)	3*	1 - 46	1244
Rate	Target value ≤ 5%	0.00%	0.00% - 100%	6.35%**



	2017	2018	2019	2020	2021
Maximum	----	----	----	----	100%
95 th percentile	----	----	----	----	50.00%
75 th percentile	----	----	----	----	0.00%
Median	----	----	----	----	0.00%
25 th percentile	----	----	----	----	0.00%
5 th percentile	----	----	----	----	0.00%
Minimum	----	----	----	----	0.00%

Clinical sites with evaluable data		Clinical sites meeting the target value	
Number	%	Number	%
275	89.87%	223	81.09%

Comments:
 The quality indicator records the number of therapies of the axillary lymphatic drainage area in pN1mi primary cases. In 2021, the denominator was modified, so that no more patients with neoadjuvant chemotherapy are included. In 220 centres (= 80%), no patients underwent lymph node dissection or radiotherapy. The centres with rates >5% justified the therapies with explicit patient request and increased need for safety (13x). Other reasons were lack of visualisation of the SLN (6x), discrepancy between intraoperative and definitive assessment of the SLN (6x) as well as sonographic/clinical involvement of the lymph nodes (4x). 2 centres reported that external radiotherapy was initiated contrary to the tumour board recommendation.

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

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