

# **Oncological quality indicators**

Guideline-based quality indicators in the guideline program on oncology (OL)

Version 5.0 February 2021









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1. Foreword

### 1. Foreword

Within the German Guideline Program in Oncology (GGPO) of the Association of the Scientific Medical Societies e.V. (AWMF), the German Cancer Society (DKG) and the German Cancer Aid (DKH), quality indicators are regularly derived for the current guidelines according to a defined process. The methodology for this is described <u>here.</u>

This document is a complete overview of all guideline-based quality indicators defined to date and is updated regularly. The current quality indicators for the GGPO are published in the respective guideline versions at: <u>https://www.leitlinienprogramm-onkologie.de/leitlinien/.</u>

### 2. Changes compared to German version 4

Indicators on the following topics have been added to the document:

- Anal Cancer
- Follicular lymphoma
- Penile Cancer

Quality indicators were revised for the following topics as part of updates:

- Renal Cell Carcinoma
- Oral cavity carcinoma
- Hepatocellular and biliary carcinomas (consultation)

# 3. Overview

Guideline topics	Version number, date	Number
<u>Anal Cancer</u>	Version 1.2, December 2020	13
Actinic keratosis and squamous cell carcinoma of the skin	Version 1.1, March 2020	1
Chronic Lymphocytic Leukemia (CLL)	Version 1.0, March 2018	4
Endometrial Cancer	Version 1.0, April 2018	4
Follicular lymphoma	Version 1.0, June 2020	3
Bladder Cancer	Version 2.0, March 2020	12
Hepatocellular and biliary carcinoma	Version 2.01, February 2021	7
Testicular tumors	Version 1.1, February 2020	11
Hodgkin lymphoma	Version 3.0, October 2020	9
<u>Colorectal carcinoma</u>	Version 2.1, January 2019	11
Laryngeal Cancer	Version 1.1, November 2019	6
Lung Cancer	Version 1.0, February 2018	8
Stomach Cancer	Version 2.0, August 2019	10
Breast Cancer	Version 4.3, February 2020	10
<u>Melanoma</u>	Version 3.3, July 2020	9
Oral cavity carcinoma	Version 3.0, January 2021	10
Renal Cell Carcinoma	Version 2.0, August 2020	9
Esophageal Cancer	Version 2.0, December 2018	11
<u>Ovarian tumors</u>	Version 4.0. March 2020	10
Palliative care	Version 2.2, September 2020	11
Pancreatic Cancer	Version 1.0, October 2013	5
Penile Cancer	Version 1.0, August 2020	8
Prostate Cancer	Version 5.1, May 2019)	10
Psychooncology	Version 1.1, January 2014	7
supportive therapy	Version 1.3, February 2020	3
<u>Cervical carcinoma - diagnostics, therapy, aftercare</u>	Version 1.0, September 2014	9
Cervical carcinoma - prevention	Version 1.1, March 2020	10
	Total	221

# 4. Anal Cancer

(Version 1.2, December 2020)

Quality indicator	Reference Recommendation	evidence base/ further information
ANAL 1: Pretherapeutic MRI E	xamination - Pelvis	
Numerator: Patients in the Denominator who had a pre-therapeutic MRI scan of the pelvis. Denominator: All patients with initial diagnosis of anal carcinoma and therapy	<ul> <li>7.2.</li> <li>An MRI scan of the pelvis shall be performed to determine the tumor category. [This shall include a multiparametric MRI angulated to the anal canal].</li> <li>7.4.</li> <li>MRI of the pelvis shall be performed to detect locoregional lymph node metastases. PET/CT shall be performed in addition. A CT of the pelvis can be performed].</li> </ul>	EC <sup>1</sup> Quality objective: Pretherapeutic MRI examination of the pelvis as often as possible for initial diagnosis of anal carcinoma with therapy.

### ANAL 2: Pathological protection of lymph nodes

Numerator:	7.5.	EC	
Patients of the <b>Denominator</b>	In case of imaging suspicion of	Quality objective: No	
with pathological securing of	locoregional lymph node metastasis	pathological confirmation of	
the lymph nodes	and planned definitive	lymph nodes in case of	
	radiochemotherapy,	imaging suspicion of	
Denominator:	histopathological or	locoregional lymph node	
All patients with initial	cytopathological confirmation of the		
diagnosis of anal carcinoma,	suspicious lymph nodes shall not be		
cN+ and definitive	performed.	and definitive	
radiochemotherapy.		radiochemotherapy	
		.,	
Quality Objective: 0%			

### ANAL 3: Preoperative examination - anal canal

•		
Numerator:	7.8.	EC
Patients of the <b>Denominator</b>	Multiparametric MRI angulated to	Quality objective: As frequent
who had a multiparametric MR	the anal canal or anal	as possible preoperative
angulated to the anal canal or	endosonography <b>shall be</b>	multiparametric MRI
an anal endosonography	performed to determine the	examination angulated to the
performed preoperatively	presence of sphincter contact prior	anal canal or anal
	to performing therapeutic excision	endosonography for initial
Denominator:	for stage I (T1N0M0) anal canal	diagnosis of stage I anal
All patients with initial	carcinoma <u>or stage I (T1N0M0) or</u>	carcinoma with resection.
diagnosis of stage I anal	IIA (T2N0M0) anal marginal	
carcinoma and resection	carcinoma.	

### <sup>1</sup> EC: expert consensus

<b>ANAL 4: Pretherapeutic</b>	tumor be	oard - stoma	creation
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Numerator:	8.10.	EC
Patients of the <b>Denominator</b>	Patients who require a stoma prior	Quality objective: Presentation
discussed in the pre-	to the start of therapy shall be	of patients with initial
therapeutic tumor board.	discussed in the interdisciplinary	diagnosis of anal carcinoma
	tumour board.	and planned stoma creation in
Denominator:		the pre-therapeutic tumour
All patients with initial		board as frequently as
diagnosis of anal carcinoma		possible.
and pre-therapeutic creation of		
a stoma		

### ANAL 5: Combined radiochemotherapy stage II or III

Numerator: Patients of the Denominator with combined radiochemotherapy	<b>9.7.</b> Anal carcinomas of <u>stages II-III</u> shall be treated with combined radiochemotherapy.	A GRADE Low (⊕⊕○○) to Moderate (⊕⊕⊕○). Quality objective: Combined radiochemotherapy as often as
Denominator: All patients with initial diagnosis of anal carcinoma stage II or III		possible for initial diagnosis of anal carcinoma stage II or III

### ANAL 6: Combined radiochemotherapy with mitomycin and 5-FU

Numerator: Denominator patients receiving a chemotherapy regimen of mitomycin and 5- FU. Denominator: All patients with initial diagnosis of anal carcinoma stage II or III and combined radiochemotherapy	<b>9.10.</b> In the context of combined radiochemotherapy, anal carcinomas of <u>stages II-III shall</u> be treated with a chemotherapy regimen consisting of mitomycin and 5-FU.	A GRADE Moderate (⊕⊕⊕) to High (⊕⊕⊕⊕) Quality objective: Mitomycin and 5-FU regimen as frequently as possible for initial diagnosis of anal carcinoma stage II or III with combined radiochemotherapy
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### ANAL 7: Combined radiochemotherapy with IMRT

who received radiation using radioclintensity-modulated be adm	A GRADE Very low (⊕○○) to moderate (⊕⊕⊕○). Quality objective: Intensity- modulated radiotherapy (IMRT) as frequently as possible for initial diagnosis of anal carcinoma stage II or III with combined radiochemotherapy
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### ANAL 8: Radiochemotherapy and biopsy

Numerator:	10.3.	EC
All patients of the	In the case of complete clinical	Quality objective: No biopsy
Denominator with biopsy after	response, no biopsy shall be	after end of
end of radiochemotherapy	performed for histopathological	radiochemotherapy in patients
	confirmation of response.	with first diagnosis of anal
Denominator:		carcinoma and complete
All patients with initial		clinical response
diagnosis of anal carcinoma		
and radiochemotherapy and		
complete clinical response.		
Quality Objective: 0%		

### Notes:

Complete clinical response = No residual tumor on clinical examination and MRI 26 weeks after initiation of RCT.

### ANAL 9: Tumor board for residual or recurrent tumor

Numerator: Patients of the Denominator with presentation in the tumor board (postoperative or pre- therapeutic) Denominator: All patients with initial	<b>12.1.</b> In the case of residual or recurrent tumour after primary therapy, further treatment planning <b>shall</b> take place within the framework of an interdisciplinary tumour board.	EC Quality objective: As frequent as possible presentation to the tumour board (postoperative or pre-therapeutic) in the case of residual or recurrent tumour after primary therapy in the case of initial diagnosis of anal
diagnosis of anal carcinoma and R1/R2 resection or residual tumor after primary radiochemotherapy or patients with recurrent tumor of anal carcinoma.		carcinoma.

### ANAL 10: Resection for local recurrence

Numerator:	12.2.	EC
Patients of the Denominator	In case of residual or recurrent	Quality objective: Resection
with curatively intended	tumor in the area of the primarius	for local recurrence of anal
resection	(anal/perianal) after primary	carcinoma, M0 and after
	radiochemotherapy without	primary radiochemotherapy as
Denominator:	evidence of distant metastasis,	often as possible with curative
All patients with local	surgical resection shall be	intent.
recurrence of an anal	performed with curative intent.	
carcinoma, M0 and after		
primary radiochemotherapy.		

### ANAL 11: Resection for residual tumor

12.2.	EC
	12.2.

	In case of residual or recurrent	Quality objective: Resection of
Denominator:	tumor in the area of the primarius	residual anal carcinoma, M0
All patients with residual	(anal/perianal) after primary	and after primary
tumor of an anal carcinoma,	radiochemotherapy without	radiochemotherapy as often as
M0 and after primary	evidence of distant metastasis,	possible with curative intent.
radiochemotherapy.	surgical resection shall be	
	performed with curative intent.	

### ANAL 12: Marking of stoma position

Numerator:	8.11.	EC
Number of patients with	The stoma position <b>shall be</b> marked	Quality objective: Preoperative
preoperative marking of the	preoperatively.	marking of the stoma position
stoma position		as often as possible in patients
		with anal carcinoma who have
Denominator:		undergone surgery with stoma
All patients with anal		placement.
carcinoma who have		
undergone surgery with stoma		
creation.		

### ANAL 13: Tumor board in stage IV, M1

Numerator: Patients of the Denominator with pre-therapeutic presentation in the tumor board Denominator: All patients with anal carcinoma stage IV, M1 (primary or secondary)	<b>13.1.</b> In the case of metastatic anal carcinoma in stage IV (distant metastases), further treatment planning <b>shall</b> take place within the framework of an interdisciplinary tumour board.	EC Quality objective: Pretherapeutic presentation of patients with anal carcinoma stage IV, M1 in the tumor board as often as possible
Notes:		

Participants tumor board: visceral surgery, radiotherapy, oncology, pathology, radiology

5.

# Actinic keratosis and squamous cell carcinoma of the skin

(Version 1.1, March 2020)

Quality indicator	Reference Recommendation	Evidence base/ further information
AK/SCC 1: Pathology report*		
Numerator:	3.20	EC

Numerator:	3.20	EC
Number of patients with the	The diagnostic report of a SCC	Quality Objective:
following information in the	shall contain the following in	As often as possible
diagnostic report:	addition to the diagnosis:	complete information in
<ul> <li>histological tumor type,</li> </ul>	histological tumour type (for	pathology reports in case of
<ul> <li>histological depth</li> </ul>	specific subtypes of SCC)	excision of a SCC (squamous
extension (description u	Description of the histological	cell carcinoma).
measurement),	depth extension in relation to	
<ul> <li>perineural spread,</li> </ul>	the anatomical stratification	
• Vascular intrusion,	(especially from Clark level V,	
Degree of differentiation	corresponding to infiltration of	
and	the subcutis)	
R-classification invasive	Measurement of depth	
tumor portion	expansion from an invasion	
	depth of 2 mm (corresponds	
Denominator:	approximately to the diameter	
All patients with SCC and	of a 10x field of view)	
excision	• in the case of a positive result,	
	indication of the presence of a	
	perineural proliferation, a	
	vascular herniation or a slight differentiation	
	<ul> <li>Completeness of resection of</li> </ul>	
	the invasive tumor portion.	
	the invasive tunior portion.	

\*= Indicator can be documented using the basic oncology dataset and associated cancer registry modules (as of 10.2018).

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### 6. Chronic Lymphocytic Leukemia

(Version 1.0, March 2018)

Quality indicator	Reference Recommendation	Evidence base/ further information
CLL 1: Investigation procedu	res for the initial diagnosis of CLL	
Numerator: Number of patients with total leukocyte count % lymphocytes from Diff-BB immunophenotyping of peripheral blood Denominator: All patients with initial diagnosis of CLL	<b>3.2</b> Investigation procedures The following examination procedures <i>shall be used in</i> the initial diagnosis of CLL: Medical history physical examination with complete survey of peripheral lymph node status and liver and spleen size estimation mechanical blood count (at least haemoglobin, leucocyte count, platelet count) differential microscopic blood count Immunophenotyping of peripheral blood	Quality Objective: Determination of total leukocyte count, % lymphocytes from diff. blood and immunophenotyping of peripheral blood for initial diagnosis of CLL as frequently as possible.

CLL 2: Determination of TP53 deletion and mutation status prior to first systemic CLL therapy

Numerator: Number of patients with determination of TP53 deletion and mutation status (FISH regarding del17p and TP53 mutation analysis ≤ 12 weeks prior to therapy initiation. Denominator: All patients with a diagnosis of CLL and first system. Therapy	<ul> <li>3.11 Indication</li> <li>In the case of clinical progression or recurrence with an established indication for therapy, as well as before each start of therapy or a change in therapy, a comprehensive diagnosis shall be carried out promptly.</li> <li>4</li> <li>b Test methods</li> <li>The following examination procedures shall be used in the case of clinical progression or relapse with a given therapy indication as well as before each therapy start or a therapy change:</li> <li>Medical history</li> <li>physical examination with complete survey of peripheral lymph node status and liver and spleen size estimation</li> <li>Determination of comorbidity and general health status mechanical blood count differential microscopic blood count</li> </ul>	EC Quality Objective: If possible, frequent determination of TP53 deletion and mutation status (FISH regarding del17p and TP53 mutation analysis ≤ 12 weeks prior to initiation of first systemic therapy.
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Quality indicator	Reference Recommendation	Evidence base/ further information
	clinical chemistry Virus serology (CMV, HBV, HCV, HIV, VZV) Determination of TP53 deletion and mutation status (FISH with regard to del(17)(p13) and TP53 mutation analysis) Determination of the current clinical stage	

### CLL 3: No chemotherapy alone as first-line therapy in CLL

Numerator:	4.6 Significance of	LoE 4
Number of patients with	chemoimmunotherapy	Quality Objective:
chemotherapy alone	Chemoimmunotherapy (taking into	Chemotherapy alone as first-
	account the contraindications for	line therapy for CLL as rarely
Denominator:	antibody therapies) shall be	as possible
All patients with CLL and	preferred to chemotherapy alone.	
first-line therapy		

### **CLL 4: Inclusion in clinical trials**

Numerator: Number of patients enrolled in clinical trials Denominator: All patients with CLL and therapy	5.1 Recommendation for study participation All patients shall be offered treatment in the context of clinical trials, if available. In particular, when new substances are available, treatment in the context of a clinical trial makes sense for patients with several previous therapies or an unfavourable risk profile.	EC Quality Objective: Inclusion in clinical trials as often as possible
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### 7. Endometrial Cancer

(Version 1.0, April 2018)

All quality indicators can be compared with the updated uniform basic oncology data set of the Association of German Tumour Centres (ADT) and the Association of Population Based Cancer Registries in Germany (GEKID) (as of 12.02.2014) and the associated modules.

Quality indicator	Reference Recommendation	Evidence base/ further information
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Endo 1: No LNE in type I endometrial carcinoma pT1a, G1/2, cN0\*.

Numerator:	6.4	LoE 1
Number of patients with	In type I endometrial carcinoma (ICD-0:	Quality Objective:
systematic LNE	8380/3, 8570/3, 8263/3, 8382/3,	<u>No</u> systematic
	8480/3) pT1a, G1/2, systematic	lymphadenectomy for type
Denominator:	lymphadenectomy shall not be	I endometrial carcinoma
All patients with first	performed if the lymph nodes are	pT1a, G1/2, cN0
diagnosis of type I	clinically unremarkable.	
endometrial carcinoma		
(ICD-0: 8380/3, 8570/3,		
8263/3, 8382/3, 8480/3)		
pT1a, G1/2, cN0		

Endo 2: No adjuvant chemotherapy for type I endometrial carcinoma in stage pT1a/b G1 and G2  $cN0/pN0^*$ .

Numerator: Number of patients with adjuvant chemotherapy Denominator: All patients with first	<b>8.2</b> Patients with endometrioid or other type I endometrial carcinoma (ICD-0: 8380/3, 8570/3, 8263/3, 8382/3, 8480/3) stage pT1a/b G1 and G2 cN0/pN0 shall not receive adjuvant chemotherapy.	EC Quality Objective: <u>No</u> adjuvant chemotherapy for type I endometrial carcinoma pT1a/b G1 cN0/pN0 o. pT1a/b G2
diagnosis of type I endometrial carcinoma (ICD-0: 8380/3, 8570/3, 8263/3, 8382/3, 8480/3) pT1a/b G1 cN0/pN0 o. pT1a/b G2 cN0/pN0	receive aujuvant chemotherapy.	cN0/pN0

Quality indicator	Reference Recommendation	Evidence base/ further information	

#### Endo 3: Counselling by social services\*

<b>Numerator:</b> Number of patients with advice from social services	<b>11.13</b> Medical-oncological rehabilitation serves the specific treatment of disease and therapy sequelae. All female patients	EC Quality Objective: Counselling by social services as often as
Denominator: All patients with initial diagnosis of endometrial cancer and treatment at the facility.	with EC shall be informed and advised about the legal options for applying for and claiming rehabilitation services.	possible

### Endo 4: Presentation in the tumor conference\*.

Numerator: Number of patients with presentation at the tumor conference Denominator: All patients with endometrial cancer	<b>12.2</b> Patients with endometrial carcinoma shall be presented in an interdisciplinary tumor conference.	EC Quality Objective: Presentation of patients in the tumor conference as often as possible

**Note:** Tumour conference participants: surgeon, radiologist, pathologist, radiotherapist, internal oncologist, gynaecological oncologist (if system therapy is carried out by gynaecology)

\* Indicator can be documented with the updated uniform basic oncology data set and the associated modules (as of 12.02.2014).

### 8. Follicular Lymphoma

(Version 1.0, June 2020)

Quality indicator	Reference Recommendation	Evidence base/ further information
FolLymph 1: Conf	irmation of the diagnosis of follicular lymphoma*	
Numerator: Number of patients with tissue biopsy ( tissue biopsy = tissue or bone marrow)	<ul><li>4.1.</li><li>Histological and immunohistochemical examination of a tissue biopsy <i>shall be</i> performed to confirm the diagnosis.</li><li>Strong consensus</li></ul>	EC Quality Objective: Tissue biopsy as frequently as possible in patients with an initial diagnosis of follicular lymphoma
Denominator: All patients with an initial diagnosis of follicular lymphoma (C82)		

FolLymph 2: Hepatitis and HIV serology prior to initiation of therapy for follicular lymphoma

Numerator: Number of patients with hepatitis B, C and HIV serology before systemic therapy	4.11. Hepatitis B, C and HIV serology shall be performed prior to initiation of systemic therapy.	EC Quality Objective: Hepatitis and HIV serology as frequently as possible before starting systemic therapy
Denominator: All patients with an initial diagnosis of follicular lymphoma (C82) and systemic therapy.		

### FolLymph 3: Involved-site or involved-field irradiation for follicular lymphoma

involved-site orinvolved-site or involved-involved-fieldfield radiotherapy in first-irradiationline therapy Radiotherapy
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Quality indicator	Reference Recommendation	Evidence base/ further information
Denominator: All patients with follicular lymphoma (C82) and radiation as first-line therapy		
The <b>Numerator</b> is always a subset of the <b>Denominator</b> .		

\* Indicator can be documented with the updated uniform basic oncology data set and the associated modules (as of 06.2019).

# 9. Bladder Cancer

(Version 2.0, March 2020)

Quality indicator	Reference Recommendation	Evidence base/ further information
BladderCa 1: Contents of findings report		

Numerator:	4.16	EC
Pat. with report of findings	In the report, the localization	Quality Objective:
with indication of:	(clinical indication), the total	Report of findings with
Localization	number of histologically detected	complete information on
Number of	lymph nodes, the number of	parameters as often as
detected/infested Lk	affected lymph nodes, the	possible: Localization, number
• Capsule overgrowth (y/n)	maximum metastasis size and	of detected/affected lymph
• max. metastasis size	capsule-transcending growth shall	nodes, capsule crossing and
(mm, one-dimensional)	be mentioned.	max. metastasis size
Denominator:		
All patients with initial		
diagnosis of bladder		
carcinoma pN+		

### BladderCa 2: Statement on detrusor musculature in report of findings

Numerator: Pat. with pathology report stating whether detrusor muscles are included Denominator: All patients with bladder carcinoma and TUR-B	6.15 If no cystectomy is planned, a postresection shall be performed in patients with non-muscle invasive urothelial carcinoma of the urinary bladder with the following constellation: for tumours in which the primary TUR was incomplete if no muscle was detectable in the pathohistological preparation in the initial TUR, except pTa Low Grade for T1 tumours in all high-grade tumours, with the exception of patients with primary carcinoma in situ	LoE 1- Quality Objective: Statement in the report of findings as to whether detrusor musculature is included as frequently as possible.

Quality indicator	Reference Recommendation	Evidence base/ further information
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BladderCa 3: Bilateral pelvic lymphadenectomy during radical cystectomy

<b>Numerator:</b> Patients with bilateral pelvic lymphadenectomy	7.22 In the case of invasive bladder carcinoma, a bilateral pelvic lymphadenectomy shall be	LoE 2- Quality Objective: If possible, bilateral pelvic lymphadenectomy during
Denominator: All patients with bladder carcinoma and radical cystectomy	performed at the same time as the radical cystectomy.	radical cystectomy

### BladderCa 4: Radical cystectomy within 3 months of diagnosis

Numerator:	7.39	LoE 2-
Pat. with radical cystectomy	In patients with muscle-invasive	Quality Objective:
within 3Mo after diagnosis	bladder cancer who do not receive	If possible, radical cystectomy
	neoadjuvant therapy, radical	within 3 mo of diagnosis
Denominator:	cystectomy shall be performed	without neoadjuvant
All patients with first	within 3 months of diagnosis if	chemotherapy
diagnosis of bladder cancer	possible.	
>= pT2 and radical		
cystectomy without		
neoadjuvant chemotherapy		

### BladderCa 5: Simultaneous RCT

Numerator:	7.45	EC
Pat. with simultaneous RCT	In the context of a bladder-	Quality Objective:
	preserving procedure with curative	Simultaneous RCT as often as
Denominator:	intention, simultaneous	possible for curatively
All patients with bladder	radiochemotherapy shall be	intended radiotherapy
carcinoma >=cT2 and	performed.	
curatively intended		
radiotherapy		

BladderCa 6: Resection biopsy from the urinary bladder after RT/RCT

Numerator:	<b>7.48</b>	EC
Pat. with resection biopsy	As part of the assessment of	Quality Objective:
from the urinary bladder after	response, a repeat cystoscopy	Resection biopsy from the
RT/RCT	with sampling from the former	urinary bladder after RT/RCT
Denominator:	resection site shall be performed	as often as possible
All patients with bladder carcinoma and completed RT/RCT		

Quality indicator	Reference Recommendation	Evidence base/ further information
BladderCa 7: Preoperative drawing of stoma position		

Numerator:	8.4	EC
Pat. with preoperative	A possible stoma position shall be	Quality Objective:
marking of stoma position	marked preoperatively. The	Preoperative marking of the
	urostomy shall be placed	stoma position as often as
Denominator:	prominently if this is technically	possible
All patients with bladder	possible.	
carcinoma who underwent		
surgery with stoma creation.		

### BladderCa 8: Pretherapeutic multidisciplinary presentation

Numerator: Patients with pre-therapeutic multidisciplinary presentation	9.2 In patients with muscle-invasive bladder carcinoma (≥T2), the therapy concept shall be	EC Quality Objective: Pretherapeutic multidisciplinary presentation
Denominator: All patients with initial diagnosis of urinary bladder cancer >= cT2	determined multidisciplinary before the start of therapy.	as often as possible

Participating disciplines: urologist, internist. Oncologist, Radiotherapist

### BladderCa 9: Postoperative multidisciplinary presentation

All patients with bladder planning. carcinoma >= pT3 u/o pN+		9.5 In patients with organ-spreading, muscle-invasive bladder carcinoma (≥pT3) and/or pN+, multidisciplinary coordination shall take place for further therapy planning.	EC Quality Objective: Postoperative multidisciplinary presentation as often as possible
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Participating disciplines: urologist, internist. Oncologist, Radiotherapist

Quality indicator         Reference Recommendation         Evidence base/ further           information         information         information	Quality indicator	Reference Recommendation	
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### BladderCa 10: Counselling by social services

Numerator:	10.1	EC
Pat. with counselling by social	After cystectomy and urinary	Quality Objective:
services	diversion, patients shall be offered	Counselling by the social
	follow-up treatment (AHB).	service after cystectomy as
Denominator:	Rehabilitation shall be carried out	often as possible
All patients with bladder	on an inpatient and specialist	
carcinoma and cystectomy	urological basis and, if the patient	
	has a corresponding comorbidity,	
	on a multidisciplinary basis and	
	with the aid of multimodal therapy	
	concepts.	

# BladderCa 11: Consultation with stoma therapist or nursing expert Stoma, continence and wound in case of urostoma

Numerator:	10.7	EC
Patients with advice from	After the creation of a urostoma,	Quality Objective:
stoma therapist or nursing	training shall be given in how to	If possible, frequent
expert for stoma, continence	care for the stoma independently.	consultation with stoma
and wounds	Even after the installation of other	therapist or nursing expert
	urinary diversions, the goal is	Stoma, continence and wound
Denominator:	independent care by the patient.	in case of urostoma
All patients with bladder	Training courses are to be held for	
cancer and urostoma	this purpose.	

### BladderCa 12: Risk classification according to EORTC criteria

11.1	EC
After diagnosis of a non-muscle-	Quality Objective:
invasive bladder carcinoma, a risk	As often as possible,
classification of the tumor (low,	indication of the risk
intermediate, high-risk) shall be	classification according to
performed according to the risk of	EORTC criteria
recurrence and progression	
according to the EORTC criteria.	
	After diagnosis of a non-muscle- invasive bladder carcinoma, a risk classification of the tumor (low, intermediate, high-risk) shall be performed according to the risk of recurrence and progression

### 10. Hepatocellular and biliary carcinoma

(Version 2.01, February 2021)

Quality indicator	Underlying recommendation	Evidence base/ further information
HBC 1: Typing according to WHO c	lassification*	
<ul> <li>Numerator:</li> <li>Patients of the Denominator with typing according to current WHO classification</li> <li>Denominator1: All patients with histologically confirmed HCC</li> <li>Denominator2: All patients with histologically confirmed CCA</li> </ul>	<ul> <li>3.19</li> <li>The typing of HCC shall be based on the current WHO classification. Special forms (fibrolamellar HCC and mixed tumors (combined HCC/ICC)) and, if possible, early HCC shall be distinguished from progressive HCC and premalignant lesions. A reliable distinction shall be made between special forms of intrahepatic cholangiocarcinoma, liver metastases and also benign liver tumours.</li> <li>4.8</li> <li>The typing of carcinomas of the bile ducts and gallbladder shall be done according to the anatomical localization (intrahepatic, perihilar, distal bile ducts, gallbladder) and according to the histological differentiation according to the current WHO classification. For intrahepatic cholangiocarcinomas, a distinction shall be made between 'small duct' and 'large duct' type.</li> </ul>	EC Quality objective: Typing according to WHO as often as possible

### HBC 2: Content of findings reports HCC

Numerator: Patients of the Denominator with reports of findings with indication of: • Staging (according to TNM classification) • Typing (according to WHO classification) • Grading • Resection margin	<b>3.20</b> The processing and reporting of a resectate or explant shall determine the extent of the tumor (staging) according to the current TNM classification, its type (typing) and degree of differentiation (grading), and the status of the resectate margin (R classification) as well as the status of the non-tumorous liver.	EC Quality objective: Complete diagnostic reports as often as possible
<ul> <li>Status of the surrounding liver</li> </ul>		

Quality indicator	Underlying recommendation	Evidence base/ further information
<b>Denominator:</b> All patients with HCC and liver resection or liver explantation		

### HBC 4: Presentation tumor conference\*

Numerator: Patients of the Denominator with pre-therapeutic presentation in the tumor conference Denominator: All patients with HCC	3.33 Patients with hepatocellular carcinoma shall be presented in an interdisciplinary tumor conference.	EC Quality objective: Pretherapeutic presentation in the tumor conference as often as possible
Notes:		

- Participants TK: gastroenterologist, pathologist, interventional radiologist, visceral surgeon
- Video conferencing is possible

### HBC 6: Presentation of tumor conference after TACE\*

Numerator:	3.66	EC
Patients of the <b>Denominator</b> with	The indication for continuation of	Quality objective:
presentation at the tumour	TACE shall be reviewed in the	Presentation at the
conference after two treatment	tumor board after two treatment	tumor conference after
cycles	cycles.	TACE as often as
		possible
Denominator:		
All patients with HCC and TACE		

### HBC 7: mRECIST-/EASL-classification after TACE

Numerator: Patients of the Denominator with assessment of remission by mRECIST or EASL classification. Denominator: All patients with HCC and TACE	3.72 Remission assessment after ablation/TACE/TARE shall be performed according to mRECIST/EASL.	EC Quality objective: Use the mRESCIST or EASL classification after TACE as often as possible.
HBC 8: Bridging Therapy		
Numerator:	3.42	LoE 1

Patients of the <b>Denominator</b> who	Quality objective:
have received bridging therapy.	Bridging therapy as

Quality indicator	Underlying recommendation	Evidence base/ further information
<b>Denominator:</b> All patients with HCC (BCLC A), Child A on the transplant waiting list	Patients with HCC (BCLC A) within Milan criteria shall receive bridging therapy if liver function permits.	often as possible in patients with HCC (BCLC A) within the Milan criteria.
Notes:		

- Bridging: local ablation, resection, or transarterial procedures (TACE, TARE)
- BCLC A:
- ECOG (PS): 0-2
- Child-Pugh A to C
- Singular tumor > 2cm or early multifocal disease with up to 3 tumors < 3cm

#### HBC 9: Content of findings reports CCA

\* Indicator can be documented with the updated uniform basic oncology data set and the associated modules (as of 11.2020).

### 11. Testicular cancer

(Version 1.1, February 2020)

Quality indicator	Reference Recommendation	Evidence base/ further information	
Testis 1: Presentation tumor o	Testis 1: Presentation tumor conference		
Numerator:Number of patients presented at an interdisciplinary tumour conference* after chemotherapyDenominator:All patients with germ cell tumor (ICD-10 C62) who have residual tumor after chemotherapy.Participants tumor conference: urology, pathology, radiology, radiotherapy, if required: visceral surgery	<b>4.2</b> CCT patients with post- chemotherapy residual tumors shall receive residual tumor resection only after prior multidisciplinary coordination and at centers with high expertise and the prerequisites for multidisciplinary surgical interventions.	EC Quality Objective: If possible, frequent therapy recommendation by an interdisciplinary tumor conference for patients with residual tumor after chemotherapy	

### Testis 2: Pathology report

#### Numerator:

Number of patients with all of the following in the pathodiagnostic report: Page Testicle size max. tumor size (in 3 dimensions) macroscopic features of the epididymis, spermatic cord and tunica vaginalis Tumor in the resection margin (yes/no) histological type with specification of individual components and percentage determination according to WHO 2016 peritumoral venous and/or lymphatic invasion (yes/no) Invasion of the tunica albuginea (yes/no) Invasion of the tunica vaginalis (yes/no)

### 7.17

The pathodiagnostic report of the testicular specimen shall include the following statements: Indication of side, size of testis, maximum tumour size (in 3 dimensions), macroscopic features of epididymis, spermatic cord and tunica vaginalis, tumour in the resection margin (yes/no), histological type with specification of individual components and percentage determination according to WHO 2016, peritumoral venous and/or lymphatic invasion (yes/no), invasion of the tunica albuginea (yes/no), tunica vaginalis (yes/no), rete testis (yes/no), soft tissue of the hilar, epididymis or spermatic cord (yes/no), Germ cell neoplasia in situ in the non-tumorous parenchyma (yes/no), and pT category according to the TNM classification of 2017.

### LoE 2a Quality Objective: Complete pathodiagnostic reports as often as possible.

Quality indicator	Reference Recommendation	Evidence base/ further information
Invasion of the rete testis (yes/no) Invasion of the soft tissue of the hilar, epididymis or spermatic cord (yes/no) Germ cell neoplasia in situ in non-tumorous parenchyma (yes/no) pT category according to the TNM classification of 2017		
<b>Denominator:</b> All patients with an initial diagnosis of germ cell tumor (ICD-10 C62) and ablation of the testis.		

### **Testis 3: Offer cryopreservation**

Numerator:	7.19	LoE 5
Number of patients who were	In cases of suspected CCT,	Quality Objective:
offered cryopreservation of	cryopreservation of spermatozoa	Pretherapeutic offer of
spermatozoa	shall be offered before the start of	cryopreservation of
pretherapeutically	therapy (before ablation of the	spermatozoa as often as
	testis, at the latest before	possible.
Denominator:	chemotherapy or radiotherapy).	
All patients with initial		
diagnosis of germ cell tumor		
(ICD-10 C62) and therapy		
(surgery, radio- or		
chemotherapy)		

### Testis 4: Application of IGCCCG prognostic criteria

Numerator: Number of patients classified according to the IGCCCG prognostic criteria Denominator: All patients with metastatic germ cell tumor (ICD-10 C62, from stage II)	<b>8.5</b> Metastatic CCT shall be classified according to the prognostic criteria of the IGCCCG.	EC Quality Objective: If possible, frequent staging according to the IGCCCG prognostic criteria in patients with metastatic germ cell tumor.
Notes: - IGCCG 1997		
Testis 5: Active surveillance (seminoma)		

9.12 LoE 2b Numerator:

Quality indicator	Reference Recommendation	Evidence base/ further information
Number of patients with active monitoring <b>Denominator:</b> All patients with initial diagnosis of seminoma (ICD-O- M 9061/3) stage I (pT1-4, N0, M0)	Patients with seminoma in cSI shall be followed up with the surveillance strategy (Active Surveillance) and treated according to stage in case of recurrence.	Quality Objective: Active surveillance for follow- up of stage I seminoma patients as frequently as possible.

### Testis 6: Active surveillance (non-seminomatous germ cell tumor)

Numerator: Number of patients with active monitoring Denominator: All patients with initial diagnosis of stage IA non- seminomatous germ cell tumor* (pT1, N0, M0, S0)	<b>9.15</b> In the low-risk situation, active monitoring shall be favoured.	LoE 2b Quality Objective: Active surveillance for follow- up of stage IA nonseminomatous germ cell tumor as frequently as possible.
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### Notes:

\*ICD-O morphology (3rd edition, 1st revision): non-seminomatous CCT: 9070/3, 9071/3, 9100/3, 9104/1, 9105/3, 9085/3, 9080/1, 9063/3, 8240/3, 9085/3, 9071/3, 8650/1, 8650/3, 8640/1, 8640/3, 8642/1, 8643/1, 8620/1, 8622/1, 8600/0, 8592/1, 8591/1, 9073/1

#### Testis 7: System therapy stage IIC/III and good prognosis group

Numerator: Number of patients with 3 cycles of PEB (cisplatin, bleomycin, etoposide) over 5 days	9.30 Patients with metastatic CCT in stage IIC / III of the good prognosis group according to IGCCCG shall receive polychemotherapy with three cycles of BER with application	LoE 1b Quality Objective: If possible, frequent systemic therapy with 3 cycles of PEB over 5 days in patients in stage IIC (III of the good
Denominator: All patients with germ cell tumor (ICD-10 C62) in stage IIC or III of the good prognosis group according to IGCCCG.	three cycles of PEB with application of cisplatin and etoposide over five days.	stage IIC/III of the good prognosis group.

#### Notes:

- Contraindications to bleomycin shall be noted. Recommendation 9.34 and 9.38 apply to these
  patients.
- IGCCG 1997

Numerator:	9.35	LoE 1b
Number of patients with four	Patients with metastatic seminoma	Quality Objective:
cycles of PEB (cisplatin,	and intermediate prognosis are to	If possible, frequent systemic
bleomycin, etoposide)	receive four cycles of PEB	therapy with four cycles of
	chemotherapy.	PEB in metastatic seminoma
Denominator:		and intermediate prognosis
All patients with metastatic		group
seminoma (ICD-O-M 9061/3;		
from stage II-IIIC) with		
intermediate prognosis		
according to IGCCCG.		

#### Notes:

Contraindications to bleomycin shall be noted. For these patients, recommendation 9.36 applies. IGCCCG 1997

# Testis 9: System therapy non-seminomatous germ cell tumour and intermediate prognosis group

Number of patients with four cycles of PEB (cisplatin, bleomycin, etoposide)	<b>9.39</b> Patients with metastatic nonseminomatous CCT and intermediate prognosis shall receive four cycles of PEB chemotherapy.	LoE 1b Quality Objective: If possible, frequent systemic therapy with four cycles of PEB in non-seminomatous germ cell tumors and intermediate prognosis group.
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### Notes:

- Contraindications to bleomycin shall be noted. For these patients, recommendation 9.40 applies.
- \*ICD-O morphology (3rd edition, 1.Revision): Non-seminomatous CCT: 9070/3, 9071/3, 9100/3, 9104/1, 9105/3, 9080/3, 9084/3, 9085/3, 9080/1, 9063/3, 9084/0, 8240/3, 9085/3, 9071/3, 8650/1, 8650/3, 8640/1, 8640/3, 8642/1, 8643/1, 8620/1, 8622/1, 8600/0, 8592/1, 8591/1, 9073/1.
- IGCCG 1997

### Testis 10: System therapy non-seminomatous germ cell tumor and poor prognosis group.

Number of patients with four cycles of PEB (cisplatin, bleomycin, etoposide)Patients with metastatic non- seminomatous CCT and poor prognosis shall receive four cycles of PEB chemotherapy.Quality Objective: If possible, frequent systemi therapy with four cycles of PEB in non-seminomatous germ cell tumors and poor prognosis according to IGCCCG.
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#### Notes:

- Contraindications to bleomycin shall be noted. For these patients, recommendation 9.42 applies.
- \*ICD-O morphology (3rd edition, 1.Revision): Non-seminomatous CCT: 9070/3, 9071/3, 9100/3, 9104/1, 9105/3, 9080/3, 9084/3, 9085/3, 9080/1, 9063/3, 9084/0, 8240/3, 9085/3, 9071/3, 8650/1, 8650/3, 8640/1, 8640/3, 8642/1, 8643/1, 8620/1, 8622/1, 8600/0, 8592/1, 8591/1, 9073/1.
- IGCCG 1997

#### Testis 11: Residual tumor resection lung and retroperitoneum

Numerator:	9.70	LoE 1b
Number of patients with	After completion of primary	Quality Objective:
resection of the residual tumor	chemotherapy and the achievement	As often as possible adequate
	of marker normalization of a non-	resection of residual non-
Denominator:	seminomatous CCT, residual	seminomatous germ cell
All patients with non-	tumors >1cm in the	tumors after chemotherapy
seminomatous CCT* and	retroperitoneum and lung shall be	and normalization of serum
completed chemotherapy with	resected. The management of	markers.
S 0 (measurement time point	residual tumours from other sites	
approx. 6 weeks after end of	shall be decided on an individual	
chemotherapy) u Residual	basis.	
tumour >1 cm in		
retroperitoneum and/or lung		
(axial CT diameter)		

### Notes:

\*ICD-O morphology (3rd edition, 1.Revision): Non-seminomatous CCT: 9070/3, 9071/3, 9100/3, 9104/1, 9105/3, 9080/3, 9084/3, 9085/3, 9080/1, 9063/3, 9084/0, 8240/3, 9085/3, 9071/3, 8650/1, 8650/3, 8640/1, 8640/3, 8642/1, 8643/1, 8620/1, 8622/1, 8600/0, 8592/1, 8591/1, 9073/1.

Quality indicators 2,3 and 11 are not to be documented with the basic oncology data set of the cancer registries (as of 10.2018)

### 12. Hodgkin lymphoma

(Version 3.0, October 2020)

Quality indicator	Reference Recommendation	evidence base/ further information
HL 1: Histological diagnosis		
Numerator: Number of patients with biopsy u/o excision LK Denominator: All patients with histological first diagnosis of Hodgkin lymphoma	<b>3.3</b> The histological diagnosis shall be made on the biopsy of a whole lymph node or other organ primarily affected.	EC Quality Objective: If possible, biopsy and/or excision of a lymph node (LK) for histological diagnosis when Hodgkin lymphoma is first diagnosed.
HL 2: Diagnostic requirements		
Numerator: Number of patients who received diagnostic tests BSG, CT (with contrast) of the neck, thorax and abdomen, X-ray thorax and bone	<b>3.7</b> Diagnostic examinations <i>shall</i> include history, physical examination, laboratory, imaging (CT (with contrast) of neck, thorax and abdomen, chest x- ray and PET/CT*.	EC Quality Objective: Perform the above- mentioned diagnostic examinations as frequently as possible in

X-ray thorax and bone marrow biopsy

#### Denominator:

All patients with a confirmed initial diagnosis of Hodgkin lymphoma

Note: The **Numerator** is currently not compatible with the updated uniform oncological basic data set (= BDS) of the Association of German Tumour Centres (ADT) and the Association of Population Based Cancer Registries in Germany (GEKID) (as of 12.02.2014).

\*CAVE: The PET examination is not part of the

benefits catalogue of the statutory health insurance

(cost coverage not guaranteed).

### HL 3: PET/CT in staging

Numerator: Number of patients with PET/CT during staging Denominator: All patients with initial diagnosis of Hodgkin lymphoma	<b>3.14</b> PET/CT* shall be performed as part of staging for staging purposes.	Quality Objective: PET/CT shall be performed as often as possible as part of the staging process.
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Note: The Numerator is currently not to be mapped with the updated uniform oncology basic data set (= BDS) (as of 12.02.2014).

patients with an initial

diagnosis of Hodgkin's

lymphoma.
Quality indicator	Reference Recommendation	evidence base/ further information

HL 4: Interim PET/CT in advanced Hodgkin lymphoma

Numerator: Number of patients with interim PET/CT	7.4 With the help of PET/CT* during ongoing chemotherapy (interim	Quality Objective: Interim PET/CT as often as possible in advanced
	PET/CT), the individual response to	Hodgkin lymphoma and
Denominator:	therapy is to be determined at an early	BEACOPP chemotherapy
All patients with Hodgkin	stage.	
lymphoma stage III A o. B o	Studies (GHSG HD18) have shown that FDG-PET/CT	
stage IV A o. B u BEACOPP	after 2 cycles of chemotherapy with BEACOPP allows selection of patients in whom further reduction of	
chemotherapy	chemotherapy is possible.	

Note: The Numerator is currently not to be mapped with the updated uniform oncology basic data set (= BDS) (as of 12.02.2014).

### HL 5: BEACOPPescalated in advanced Hodgkin lymphoma\*.

Numerator: Number of patients with BEACOPP escalated Denominator: All adult patients up to 60 years of age with initial diagnosis of stage III A or B or stage IV A or B Hodgkin lymphoma.	<ul> <li>7.2 Adult patients up to 60 years of age with advanced HL <i>shall be</i> treated with BEACOPPescalated.</li> <li>7.3 The number of cycles is based on the result of the interim staging by PET/CT* after 2 cycles. PET/CT- negative patients shall receive 2 further cycles of BEACOPPescalated, PET/CT- positive patients shall receive 4 further cycles as before</li> </ul>	Quality Objective: Treatment with BEACOPPescalated as often as possible in advanced Hodgkin's lymphoma
	cycles, as before.	

### HL 6: PET/CT after chemotherapy for advanced Hodgkin lymphoma

Numerator: Number of patients with PET/CT according to BEACOPPescalated Denominator: All patients with initial diagnosis of Hodgkin lymphoma stage III A o. B or stage IV A o. B u BEACOPPescalated	7.5 PET/CT* after therapy <i>will</i> be used to assess the individual response to chemotherapy.	Quality Objective: PET/CT as often as possible after BEACOPP chemotherapy in patients with advanced Hodgkin lymphoma
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Note: The Numerator is currently not to be mapped with the updated uniform oncology basic data set (= BDS) (as of 12.02.2014).

Quality indicator	Reference Recommendation	evidence base/ further information
HL 7: Radiation therapy for advanced Hodgkin's lymphoma*.		

**Quality Objective:** Numerator: 7.8 Number of patients with local Patients who have responded to Local radiotherapy (30 Gy) radiotherapy (30 Gy) chemotherapy but show PET/CTas often as possible positive residual tissue shall receive in patients with advanced Denominator: local radiotherapy. Hodgkin lymphoma All patients with initial 7.9 diagnosis of Hodgkin Patients in advanced stages who have lymphoma stage III A or B or received previous polychemotherapy stage IV A or B, BEACOPand for whom there is an indication for escalated and with PET additive radiotherapy shall be positive residual tumor. irradiated with a dose of 30 Gy.

Note: Positive residual tumor = not "no change" in BDS.

#### HL 8: Confirmation of diagnosis in recurrence of NLPHL\*.

Numerator:	8.19	EC
Number of patients with LK	Patients with NLPHL suspected of	Quality Objective:
biopsy to confirm diagnosis	recurrence shall be re-diagnosed by	LK biopsy as often as
	lymph node biopsy due to the risk of	possible to confirm the
Denominator:	transformation of NLPHL into	diagnosis
All patients with recurrence	aggressive non-Hodgkin lymphoma.	in patients with recurrence
of NLPHL		of NLPHL

### HL 9: Recurrence therapy for Hodgkin's lymphoma\*.

Numerator: Number of patients with autologous stem cell transplantation	<b>9.7</b> Patients up to 60 years of age without severe comorbidities shall receive high- dose chemotherapy with autologous stem cell transplantation in case of	Quality Objective: Autologous stem cell transplantation as often as possible in patients up to 60 years of age with 1st
<b>Denominator:</b> All patients up to 60 years	relapse or progression of Hodgkin lymphoma.	relapse or progression of Hodgkin lymphoma
with 1st relapse or progression of Hodgkin	, inprovince.	nougan ijinphona
lymphoma		

#### Notes:

\*CAVE: The PET examination is not part of the benefits catalogue of the statutory health insurance (cost coverage not guaranteed).

# 13. Colorectal carcinoma

(Version 2.1, January 2019)

Quality indicator	Reference Recommendation	Evidence base/ further information

# **CRC 1: Collection of family history**

Number of patients with completed patient questionnaireJCompleted patient questionnaireTCompleted patient questionnaireT <th>None Justification of this QI: The analysis of international QI (here mainly ASCO) has shown that internationally, QI for the recording of the family history are described. The guideline group considers the area to be relevant, so that it defines a QI without an accompanying strong recommendation in the guideline.</th> <th><b>Quality Objective:</b> Completing the patient questionnaire as often as possible to obtain family history.</th>	None Justification of this QI: The analysis of international QI (here mainly ASCO) has shown that internationally, QI for the recording of the family history are described. The guideline group considers the area to be relevant, so that it defines a QI without an accompanying strong recommendation in the guideline.	<b>Quality Objective:</b> Completing the patient questionnaire as often as possible to obtain family history.

#### Note: Patient Questionnaire:

https://www.krebsgesellschaft.de/zertdokumente.html?file=files/dkg/deutschekrebsgesellschaft/content/pdf/Zertifizierung/Erhebungs-%20und%20Kennzahlenboegen/PatientenFragebogen%20familiaerer%20Darmkrebs%20%2803032017%29.pdf

### CRC 2: Complete reports of findings after tumor resection for CRC

Numerator:	7.58	Quality Objective:
Number of patients with	The following information by the	Complete reports of findings after
report of findings with	pathologist is required:	tumour resection in CRC as often
indication of:	Tumour type according to WHO	as possible
Tumour type according to	classification (Evidence 1c)	
WHO classification	Tumour invasion depth (pT	
Tumour invasion depth (pT	classification) (Evidence 1c)	
classification)	Status of the regional lymph	
Status of the regional lymph	nodes (pN classification) (Evidence	
nodes (pN classification)	1c)	
Number of lymph nodes	Number of lymph nodes	
examined	examined (Evidence 2a)	
Grading	Grading (Evidence 2a)	
Distance from the resection	Distance from the resection	
margins (for rectal	margins (for rectal cancer also	
carcinoma also	circumferential) (Evidence 2a)	
circumferential)	R-classification (Evidence 1c)	
R-Classification		
Denominator:		
All patients with CRC and		
surgical resection		

Quality indicator Refer	ence Recommendation	Evidence base/ further information
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### CRC 3: Mutation determination in mKRK

# Notes:

Definition "at start" = date of mutation determination max. +15d from date of start of first-line therapy

# CRC 4: Combination chemotherapy for mKRK

Numerator: Number of patients with combination chemotherapy Denominator: All patients with mKRK, ECOG 0-1 and first-line systemic therapy.	<b>9.24</b> In first-line chemotherapy, fluoropyrimidine-based combination regimens with infusional administration of 5- fluorouracil, such as FOLFIRI, FOLFOX or FOLFOXIRI, or with the oral fluoropyrimidine capecitabine (predominantly with oxaliplatin, CAPOX) shall be used in the first instance if the patient is in good general condition and highly motivated.	LoE 1a Quality Objective: Combination chemotherapy as often as possible in first-line therapy of patients with mKRK, ECOG 0-1
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### CRC 5: Indication of distance mesorectal fascia

Numerator:7.17ECAll patients with indication of the distance to the mesorectal fascia in the findings reportThe description of findings shall include a statement about the distance to the mesorectal fascia.Quality Objective: If possible, frequently indicate th distance of the mesorectal fascia an MRI/CT was performed for rectal cancer.Denominator: All patients with rectal cancer and MRI or thin-slice CT of the pelvis.All patients with rectal cancer and MRI or thin-sliceAll patients with rectal cancer and MRI or thin-sliceAll patients with rectal cancer and MRI or thin-slice
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Quality indicator	Reference Recommendation	Evidence base/ further information
CRC 6: Quality TME		
Numerator: Number of all patients with good or moderate quality (grade 1: mesorectal fascia preserved or grade 2: intramesorectal tears) TME. Denominator: All patients with radically operated rectal cancer	<ul> <li>7.66</li> <li>Since the quality of a surgical resection, taking into account the above categories, allows conclusions to be drawn regarding the prognosis for the development of a local recurrence, it is obligatory to describe this in the pathohistological findings report as follows</li> <li>The quality of the preparation is judged by the integrity of the mesorectal fascia in case of resection with the 3 categories:</li> <li>Preserve mesorectal fascia</li> <li>Intramesorectal tears</li> <li>Reaching the muscularis propria or tumor.</li> <li>In the case of rectal extirpation, preparation tears and a tumorpositive circumferential safety margin are less common with complete resection of the levator muscles.</li> <li>In the patho-diagnostic report, the description of the radicality in the area of the levator musculature is therefore obligatory. The following categories shall be used for this purpose:</li> <li>Parts of the muscularis propria preserved, no opening of the intestine or tumor</li> <li>Levator muscles also resected, no opening of the intestine or tumor</li> </ul>	EC Quality Objective: As often as possible good or moderate quality of TME in rectal carcinoma

Quality indicator	Reference Recommendation	Evidence base/ further information
CRC 7: Presentation of tumo	or conference	
Numerator: Number of patients presented pre- therapeutically in an interdisciplinary tumor conference Denominator: All patients with rectal carcinoma and all patients with colon carcinoma stad. IV	7.1 All patients with CRC shall be presented in an interdisciplinary tumor conference after completion of primary therapy (e.g. surgery, chemotherapy). Already pre-therapeutically, patients shall be presented in the following constellations <b>Denominator</b> : - with rectal cancer - with colon carcinoma, stage IV - with metachronous distant metastases - with local recurrences - before any local ablative procedure RFA/LITT/SIRT	EC Quality Objective: Patients with rectal cancer and patients with colon cancer stad. IV in the pre-therapeutic tumor conference

# CRC 8: Adjuvant chemotherapy

Numerator: Number of patients who received adjuvant chemotherapy. Denominator: All patients with UICC stage III colon cancer who underwent R0 resection of the primary tumor.	<b>8.4</b> Adjuvant chemotherapy is indicated for patients with R0 resected stage III colon cancer.	LoE 1a Quality Objective: Adequate performance of adjuvant chemotherapy after R0 resection colon cancer stad. III
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### CRC 9: Anastomosis insufficiency rectal cancer

Numerator: Number of patients with anastomosis insufficiency grade B (with antibiotic administration or interventional drainage or transanal lavage/drainage) or C (re-)laparotomy) after elective surgery. Denominator: All patients with rectal cancer in whom an anastomosis was created in an elective primary tumor resection.	None Justification of this QI: Notes: The Guideline Commission decided that not only structural quality objectives but also outcome quality objectives shall be taken into account. This results in the inclusion of this indicator in the guideline even without a consensual strong recommendation.	Since this indicator was not derived from a strong recommendation, evidence base does not apply. Quality Objective: Grade B or C anastomosis insufficiencies after anastomosis creation in operated rectal carcinoma are as rare as possible.
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# CRC 10: Anastomotic insufficiency Colon carcinoma

Numerator: Re-intervention of anastomotic insufficiencies of the colon after elective surgery	None Justification of this QI: Notes: The Guideline Commission decided that not only structural guality objectives but also	Since this indicator was not derived from a strong recommendation, evidence base does not apply. Quality Objective:
<b>Denominator:</b> All patients with colon carcinoma in whom an anastomosis was created in an elective tumor resection.	outcome quality objectives shall be taken into account. This results in the inclusion of this indicator in the guideline even without a consensual strong recommendation.	Anastomosis insufficiencies requiring re-intervention as seldom as possible G after anastomosis creation in operated colon carcinoma

# CRC 11: Marking of stoma position

<b>Numerator:</b> Number of patients with preoperative marking of the stoma position	<b>7.42</b> The stoma position shall be marked preoperatively.	EC Quality Objective: Preoperative marking of the stoma position as often as possible
<b>Denominator:</b> All patients with rectal carcinoma who underwent		
surgery with a stoma.		

# 14. Laryngeal Cancer

(Version 1.1, November 2019)

Quality indicator	Reference Recommendation	Evidence base / further information
Larynx 1: Report of findings a	after tumor resection and lymph no	de removal
Numerator:Number of patients with reports of findings indicating:•Tumor location (ICD-O-3 topography) and size (in mm),•histological tumor type (WHO classification),•histological tumor type (WHO classification),•local tumor extension u infiltrated structures (cT/pT),•Lymph node metastases (cN/pN) separated by level and side:•Number of LCS examined,•Number of affected LK,•largest diameter of the lymph node metastases•supravascular tumor•Lymphatic/venous invasion and perineural invasion (L, V, Pn),•Presence of an in situ component (cTis/pTis, with mm size),•Differentiation of the tumor according to the established grading scheme (G1-4)•Distance to lateral and	<ul> <li>4.4.</li> <li>The following parameters shall be specified:</li> <li>Tumor location and size,</li> <li>histological tumor type according to the current WHO classification,</li> <li>local tumor extension, infiltrated structures,</li> <li>Lymph node metastases separated by level and side:</li> <li>Number of LCs examined,</li> <li>Number of affected LK,</li> <li>largest diameter lymph node metastases,</li> <li>supravascular tumor</li> <li>Lymphatic/venous invasion and perineural invasion,</li> <li>Presence of an in situ component (with size),</li> <li>Differentiation of the tumor according to the established grading scheme</li> <li>Distance to lateral and basal resection margins for all relevant resection margins as well as for the invasive and in situ components.</li> </ul>	<section-header>         EC         Ouality Objective:         Complete reports of findings after tumor resection and lymph node removal as often as possible</section-header>
basal resection margins for all relevant resection margins as well as for the invasive and the in		

Quality indicator	Reference Recommendation	Evidence base / further information
situ component (specify: yes/no)		
Denominator:		
All patients with laryngeal carcinoma and tumour resection and lymph node removal		

### Larynx 2: Performance of panendoscopy

Numerator:	6.7.	EC
Number of patients with panendoscopy	Panendoscopy shall be performed in patients with laryngeal carcinoma.	Quality Objective: Panendoscopy shall be
Denominator:		performed as often as possible when laryngeal carcinoma is first
All patients with initial		diagnosed.
diagnosis of laryngeal		
carcinoma		

### Larynx 3: Pretherapeutic tumor conference

Numerator:	7.1	EC
Number of patients who were discussed pre- therapeutically in the TK	The treatment of laryngeal carcinoma shall be carried out in an interdisciplinary manner after coordination of each individual	Quality Objective: Presentation of patients in the pre-therapeutic tumor conference as often as possible
Denominator:	case within tumour boards involving the specialist	
All patients with laryngeal	disciplines of	
carcinoma	otorhinolaryngology,	
	radiotherapy, medical oncology, pathology and radiology.	
	pathology and radiology.	

### Larynx 4: Postoperative radiochemotherapy

Numerator:	7.38.	LoE 1b
Number of patients with postoperative radiochemotherapy Denominator:	<ul> <li>Postoperative radiochemotherapy shall be perfomed:</li> <li>with R1 or resection margin &lt;5mm in the area of the mucosa in the tumor parts</li> </ul>	Quality Objective: If possible, frequent postoperative radiochemotherapy for resection margin <5mm or R1or pN3b

Quality indicator	Reference Recommendation	Evidence base / further information
All patients with initial diagnosis of laryngeal carcinoma and resection with resection margins <5mm or R1 or extracapsular LK growth (pN3b).	<ul> <li>not surrounded by cartilage or</li> <li>in case of extracapsular tumor growth at the lymph nodes</li> </ul>	

### Larynx 5: R0 resection

Numerator:	7.54.	EC
Number of patients with final surgical result R0	The aim of the surgical procedure shall be an RO resection.	Quality Objective: As often as possible R0 as final resection result after resection
Denominator: All patients with initial diagnosis of laryngeal carcinoma and resection	If R0 resection does not appear possible, primary surgical therapy shall not be performed. In the case of R1, a resection shall be attempted.	

# Larynx 6: Consultation with speech therapist/linguist

Numerator:	7.69.	EC
Number of patients with advice from speech therapists/speech scientists <b>Denominator:</b> All patients with initial diagnosis of laryngeal carcinoma and therapy	Even before the start of tumor therapy, the subsequent voice function shall be considered. Patients shall be informed about the various rehabilitation options with the involvement of speech therapists and care givers of patient support groups.	Quality Objective: Consultation with speech therapist/linguist as often as possible before therapy

The quality indicators 1,2, 4 and 6 cannot be compared with the basic data set of the Association of German Tumour Centres (ADT) and the Association of Population Based Cancer Registries in Germany (GEKID) (as of 12.02.2014).

# 15. Lung Cancer

(Version 1.0, February 2018)

Quality indicator	Reference Recommendation	Evidence base/ further information
Lung 1: Molecular patholo or adenosquamous carcin	gical examination in patients NSCLC sta oma	ge IV with adenocarcinoma
Numerator: Number of patients with EGFR mutations in exons 18-21 and/or ALK fusions and/or ROS1 fusions Denominator: All patients with initial diagnosis of adenocarcinoma or adenosquamous carcinoma of the lung stage IV	<ul> <li>6.59 Molecular pathological examinations</li> <li>On the basis of the available tumor tissue / tumor cells of all non curatively treatable non squamous cell NSCLC, molecular pathological investigations shall be initiated with regard to all therapeutically relevant molecular alterations (according to the current status before first-line therapy as a minimum requirement EGFR mutations in exons 18-21, ALK fusions and ROS1 fusions, BRAF V600 mutations).</li> <li>This also applies to squamous cell carcinomas of never smokers/light smokers.</li> </ul>	EC Quality Objective: If possible, frequent examination of at least EGFR mutations in exons 18-21 and/or ALK fusions and/or ROS1 fusions in patients with initial diagnosis of adenocarcinoma and adenosquamous Ca of the lung stage IV.

Lung 2: First-line therapy with EGFR TKIs in patients NSCLC stage IV with activating EGFR mutation and ECOG 0-2.

Numerator: Number of patients with initiation of first-line therapy with EGFR TKIs Denominator: All patients with initial diagnosis of NSCLC stage	<b>7.29 First-line therapy</b> In the presence of an activating EGFR mutation, patients with ECOG 0-2 shall be offered an EGFR TKI in first-line therapy.	LoE 1a Quality Objective: First-line therapy with EGFR- TKI as often as possible for activating EGFR mutation in NSCLC stage IV with ECOG 0- 2
diagnosis of NSCLC stage		
IV, activating EGFR		
mutation and ECOG 0-2		

Note: Based on TNM classification 8th edition, 2017 [1]

<b>Numerator:</b> Number of patients with initiation of ALK-specific TKI therapy	7.38 First-line therapy in chemotherapy-naïve patients Crizotinib to be offered in the first-line treatment of ALK positive NSCLC patients	LoE 1b Quality Objective: If possible, ALK-specific TKI therapy as first-line therapy in ALK-pos. NSCLC stage IV
Denominator: All patients with initial diagnosis NSCLC stage IV, ALK pos.		·

Lung 3: First-line ALK-specific TKI therapy in patients with stage IV ALK-positive NSCLC.

Note: Based on TNM classification 8th edition, 2017 [1]

#### Lung 4: First-line ROS1-specific TKI therapy in patients with ROS1-positive stage IV NSCLC.

Numerator: Number of patients with initiation of ROS1-specific TKI therapy Denominator: All patients with initial diagnosis of NSCLC stage IV, ROS1- positive	7.43 System therapy in patients with ROS1 fusion genes (ROS1 + NSCLC) For patients with ROS1 fusion genes (ROS1 + NSCLC), crizotinib shall be offered in first-line therapy.	LoE 1b Quality Objective: If possible, ROS1-specific TKI therapy as first-line therapy in ROS1-pos. NSCLC stage IV
Note: Based on TNM classification 8th edition, 2017 [1]		

### Lung 5: Pretherapeutic presentation Tumor conference

Numerator:	7.51 Therapy in "new proposed stage	EC
Number of patients	IVA (IASLC 2016/17)".	Quality Objective:
presented pre-	Patients with "new proposed stage IVA	Pretherapeutic presentation
therapeutically in the	(IASLC 2016/17)" (M1a and M1b	at the interdisciplinary tumor
interdisciplinary tumor	descriptors) shall receive a	conference for stage IVA
conference	multimodality treatment decision by	NSCLC as often as possible.
<b>Denominator:</b> All patients with NSCLC stage IVA	consensus in an interdisciplinary tumor conference.	

**Note:** Participants TK: oncology, pneumology, radiotherapy, surgery, possibly + radiology and nuclear medicine and localization-related disciplines (e.g. neurosurgery, visceral surgery). Based on the TNM classification 8th edition, 2017 [1]

### Lung 6: Adjuvant cisplatin-based chemotherapy for stage II - IIIA1/A2 NSCLC.

Numerator:Recommendation 8.20LoE 1a-2bNumber of patientsAfter R0 resection and systematicQuality Objective:receiving adjuvantIymph node dissection, patients in<br/>stage II or IIIA1/A2 (see Chapter 8.5.1)If possible, adjuvant cisplatin-<br/>based chemotherapy for

cisplatin-based combinations	in good general condition (ECOG 0/1) shall receive adjuvant chemotherapy. <b>Chapter 8.5.2.1.5</b>	stage II or IIIA1/A2 NSCLC with ECOG 0/1.
Denominator:	Adjuvant chemotherapy is	
All patients with initial	recommended in stage IIIA with	
diagnosis of NSCLC stage	incisional N2 status (IIIA1/A2) after	
II or IIIA1/A2, ECOG 0/1,	complete resection (R0) and systematic	
R0 resection and lymph	lymph node dissection.	
node dissection.	<i>,</i> , ,	

**Note:** The recommendation is based on the TNM classification 7th edition, 2010 [2]. With the TNM classification 8th edition, 2017, there is no change of the QI

### Lung 7: Combined radiochemotherapy for stage IIIA4/IIIB NSCLC

Numerator: Number of patients with radiochemotherapy	7.4.4 Patients in stage IIIA4 / IIIB shall receive a combination of radiotherapy and chemotherapy, if the general	LoE 1b Quality Objective: If possible, radiochemotherapy for
Denominator: All patients with initial diagnosis of NSCLC stage IIIA4 or IIIC and ECOG 0/1	condition and tumor extension allow it.	NSCLC stage IIIA4 or IIIC and ECOG 0/1

**Note:** The recommendation is based on the TNM classification 7th edition, 2010 [2]. With the TNM classification 8th edition, 2017, stage IIIC was added for the QI.

### Lung 8: Combined radiochemotherapy for SCLC stad. IIB - IIIB

Numerator: Number of patients with radiochemotherapy	<b>8.5.2</b> Patients with radiation-eligible tumor spread of small cell lung carcinoma shall receive early combined	LoE 2a Quality Objective: If possible, radiochemotherapy for SCLC
Denominator: All patients with initial diagnosis of SCLC stage IIB[T3] - IIIC [TNM: cT1/2 N2-3 M0, cT3/4 N0-3 M0] and ECOG 0/1	chemoradiation therapy whenever possible	stage IIB-IIIC, ECOG 0/1

**Note:** The recommendation is based on the TNM classification 7th edition, 2010 [2]. With the TNM classification 8th edition, 2017 the stage IIIC was added for the QI.

# 16. Gastric Cancer

(Version 2.0, August 2019)

Quality indicator Refe	ce Recommendation Evidence base/ further information
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**Preliminary remarks:** Tumors whose center is > 2 cm from the esophagogastric junction are classified as gastric carcinomas, even if the esophagogastric junction is involved.

### GastrCa 1: Full pathology report

<ul> <li>Numerator:</li> <li>Number of patients with at least the following information in the pathohistological findings report:</li> <li>Type of material removed,</li> <li>Tumor localization (macroscopic / microscopic),</li> <li>minimal removal of the tumor to the resection margins,</li> <li>Size of the tumor,</li> <li>microscopic tumor type (according to current WHO classification),</li> <li>Grading<sup>a</sup> (current WHO classification (indicating the examined and affected lymph nodes),</li> <li>R-Classification.</li> <li>a: possibly omitted after neoadj therapy</li> </ul> Denominator: All patients with carcinoma of the stomach or esophagogastric junction (ICD-10 C16. <sup>01</sup> , C16.1-16.9) and surgical resection.	8.2 The pathological-anatomical assessment shall be complete and in a standardised form (see information in the background text).	EC Quality Objective: As often as possible complete pathodiagnostic reports after surgical resection of a carcinoma of the stomach or the esophagogastric junction.

### GastrCa 2: Endoscopic en-bloc resections

Numerator:	9.1	9.1: LoE 3b; 9.2: EC Quality Objective:

Quality indicator	Reference Recommendation	Evidence base/ further information
Number of patients with en bloc resection Denominator: All patients with carcinoma of the stomach or esophagogastric junction (ICD-10 C16. <sup>01</sup> , C16.1- 16.9) and endoscopic resection.	Intraepithelial neoplasms (so- called dysplasias) of any size as well as early gastric carcinomas that fulfill all four of the following criteria shall be resected endoscopically en bloc: < 2cm_diameter unulcerated Mucosal carcinoma intestinal type or histological degree of differentiation good or moderate (G1/G2) <b>9.3</b> Endoscopic resection of early gastric carcinoma shall be performed as a complete en bloc resection, allowing complete histologic evaluation of the lateral and basal margins.	En bloc resections as frequently as possible for endoscopic resection of carcinoma of the stomach or esophagogastric junction .

### GastrCa 3: R0 resections (endoscopy) \*

### Numerator:

Number of patients with R0 resection after completed endoscopic therapy

### **Denominator:**

All patients with carcinoma of the stomach or esophagogastric junction (ICD-10 C16.<sup>01</sup>, C16.1-16.9) and endoscopic resection.

### 9.1

Intraepithelial neoplasms (socalled dysplasias) of any size as well as early gastric carcinomas that fulfill all four of the following criteria shall be resected endoscopically en bloc:

- <u>< 2cm</u>diameter
- non-ulcerated
- Mucosal carcinoma
- intestinal type or histological degree of differentiation good or moderate (G1/G2)

# 9.3

Endoscopic resection of early gastric carcinoma shall be performed as a complete en bloc resection, allowing complete histologic evaluation of the lateral and basal margins.

### 9.1: LoE 3b; 9.2: EC Quality Objective: As often as possible R0 situations after endoscopic resection of gastric

carcinoma or carcinoma of the esophagogastric junction.

Quality indicator	Reference Recommendation	Evidence base/ further information
GastrCa 4: Nutritional status		
Numerator: Number of patients with determination of nutritional status according to Nutritional Risk Score and Body Mass Index Denominator: All patients with carcinoma of the stomach or esophagogastric junction (ICD-10 C16.0, C16.1- 16.9)	14.2 Nutritional status shall be assessed in all tumor patients, beginning with diagnosis, at every inpatient admission and outpatient contact, in order to be able to initiate interventions at an early stage.	EC Quality Objective: If possible, survey nutritional status frequently in patients with carcinoma of the stomach or esophagogastric junction.

# GastrCa 5: Anastomotic insufficiency grade III

Numerator:	Specific guideline objective:	Quality Objective:
Number of patients with grade III	Detection of anastomotic	Rarely possible grade III
anastomosis insufficiency	insufficiency grade III (localized	anastomotic insufficiencies
	defect requiring surgical therapy)	after resection with
Denominator:	after gastrectomy.	reconstruction by
All patients with carcinoma of the		anastomosis in patients with
stomach or esophagogastric		carcinoma of the stomach or
junction (ICD-10 C16.0, C16.1-		esophagogastric junction.
16.9) and resection with		
reconstruction by anastomosis.		

### Notes:

Classification of anastomotic insufficiency into I-III.

I: locally defect, no change in therapy, only medicaments or diet modification

II: Localized defect requiring intervention, but no surgery, e.g. IR drain, stent or bedside opening

III: Localized defect requiring surgical therapy

(according to: Low, D.E., et al, International Consensus on Standardization of Data Collection for Complications Associated With Esophagectomy: Esophagectomy Complications Consensus Group (ECCG). Ann Surg, 2015 Aug;262(2):286-94)

### GastrCa 6: Vitamin B12 substitution after gastrectomy

### GastrCa 7: Perioperative chemotherapy for gastric carcinomas cT3 and cT4, M0\*

Numerator:	11.2	LoE 1a
Number of patients with	For localized gastric carcinoma of	Quality Objective:
preoperative chemotherapy	categories cT3 and resectable	Preoperative chemotherapy
	cT4 tumors, perioperative	as often as possible for
Denominator:	chemotherapy, i.e., shall be	localized gastric carcinoma
All patients with initial diagnosis	started preoperatively and	cT3 or cT4, M0 with
of gastric carcinoma (ICD-10 16.1-	continued postoperatively.	resection.
16.9) cT3 or cT4, M0 and resection		

# GastrCa 8: Perioperative chemotherapy or radiochemotherapy for adenocarcinoma of the esophagogastric junction with cT3 or cT4, M0

Numerator:	11.3
Number of patients with	For non-remote metastatic
preoperative chemotherapy or	adenocarcinoma of the
radiochemotherapy	esophagogastric junction of
	categories cT3 and resectable
Denominator:	cT4 tumors, neo-adjuvant
All patients with adenocarcinoma	radiochemotherapy or
of the esophagogastric junction	perioperative chemotherapy shall
(ICD-10 16. <sup>01</sup> ) cT3 or cT4, M0 and	be performed.
resection	

#### LoE 1a

Quality Objective: If possible, frequent perioperative chemotherapy or radiochemotherapy for adenocarcinomas of the esophagogastric junction cT3 or cT4, M0 and resection.

### GastrCa 9: Presentation of interdisciplinary tumor conference\*

Numerator:	11.9	EC
Number of patients with post-	If tumor progression is detected,	Quali
interventional presentation in the	the decision on further therapy	Post-i
tumor conference	shall be made on an	prese
	interdisciplinary basis.	interd
Denominator:	11. <b>12</b>	confe
All patients with carcinoma of the	After preoperative chemotherapy	carcin
stomach or esophagogastric	and subsequent surgery,	esoph
junction (ICD-10 C16. <sup>01</sup> , C16.1-	postoperative chemotherapy	with s
16.9) with surgical therapy	shall be decided on an	(endo
(endoscopic or surgical resection)	interdisciplinary basis.	resect
		possil

# **Quality Objective:**

Post-interventional presentation in the interdisciplinary tumor conference of patients with carcinoma of the stomach or esophagogastric junction with surgical therapy (endoscopic or surgical resection) as often as possible.

### GastrCa 10: Determination of HER-2 status before palliative tumor therapy

Numerator: Number of patients with determination of HER-2 status Denominator: All patients with carcinoma of the stomach or esophagogastric junction (ICD-10 C16. <sup>01</sup> , C16.1- 16.9) with palliative medical tumor	<b>12.6</b> Prior to the use of palliative medical tumor therapy, HER-2 status shall be determined as a positive predictive factor for therapy with trastuzumab.	EC Quality Objective: Determination of HER-2 status as frequently as possible prior to palliative drug therapy in patients with carcinoma of the stomach or esophagogastric junction.
therapy.		junction.

\* Indicator can be documented with the updated uniform basic oncology data set and the associated modules (as of: July 2019)

# 17. Breast Cancer

(Version 4.3, February 2020)

Quality indicator	Reference Recommendation	Evidence base/ further information
MamCa 1: Further treatment of breast carcinomas detected in screening in certified breast cancer centres		
Numerator:	3.9.	EC
Number of patients receiving	d.) In order to ensure the best	Quality Objective:
treatment in a certified breast	possible treatment, further therapy	If possible, further treatment of
cancer centre (DKG/DGS, NRW)	of breast carcinoma detected in	breast carcinomas and/or DCIS

cancer centre (DRG/DGS, NRW)	of breast carcinolia detected in	Dreast Carcinomas anu/or DCIS
	screening shall take place in	detected in screening at a certified
Denominator:	certified breast centres.	breast cancer centre.
All patients detected in the	Continuous quality assurance shall	
screening with histologically	be ensured through	
confirmed inv MaCa u/o DCIS	communication and data collection	
	between the screening centre and	
	the certified breast centre.	

Note: The QI can be evaluated with data from the cooperative mammography association

### MamCa 2: Pretherapeutic histological confirmation

Numerator:	4.5.	LOE 3a
Patients with pre-therapeutic	Histological clarification of	Quality Objective:
histological diagnosis confirmation	findings shall be performed by	As many patients as possible with
by punch or vacuum biopsy	punch biopsy, vacuum biopsy and,	pre-therapeutic histological
	in exceptional cases to be	confirmation by punch or vacuum
Denominator:	justified, by open excision biopsy.	biopsy in the case of initial
Patients with first intervention and		intervention and primary disease
histology "invasive breast		invasive breast carcinoma and/or
carcinoma or DCIS" as primary		DCIS.
disease		

### MamCa 3: Intraoperative preparative radiography/sonography

Operations with intraoperative preparative X-ray or intraoperative preparative sonographyPre- or intraoperative marking shall be carried out, particularly in the case of non-palpable changes, using the method with which the finding can be clearly visualised.Denominator: Operations with preoperative wire marking controlled by mammography or sonographyThe proof of an adequate resection is to be provided intraoperatively by preparation radiography or preparation sonography. If MR- guided marking has been performed, an MR control shall be performed within 6 months in case	As often as possible intraoperative preparation ultrasonography or radiography after preoperative marking
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Quality indicator	Reference Recommendation	Evidence base/ further information
	of histologically unspecific benign findings.	

### MamCa 4: Axillary lymph node removal for DCIS

Numerator: Patients with axillary lymph node removal (primary axillary dissection or SNB) Denominator: Patients with histology "DCIS" and completed surgical therapy for primary disease and breast- conserving therapy	<b>4.10.</b> Axillary dissection shall not be performed for DCIS. A sentinel node biopsy shall only be performed if a secondary sentinel node biopsy is not possible for technical reasons, e.g. in the case of ablatio mammae.	LOE 1b Quality Objective: As few patients as possible with primary axillary dissection or sentinel node biopsy (SNB) in DCIS with breast-conserving therapy
Note: Quality Objective <5%		

# MamCa 5: Endocrine therapy as the first therapeutic option in steroid receptor-positive metastatic breast carcinoma

Numerator: Patients who have received endocrine-based therapy in the metastatic stage as first-line therapy.	<b>5.13.</b> Endocrine therapy +/- targeted therapy is the treatment of choice in patients with positive hormone receptor status and negative HER2	LOE 1b Quality Objective: Endocrine-based therapy as first- line therapy in patients with breast carcinoma, positive hormone
<b>Denominator:</b> All patients with steroid-receptor-	status. Endocrine therapy is not indicated in patients with the need to achieve rapid remission to avert	receptor status, negative HER2 status and first diagnosis of metastasis.
positive and HER2-negative breast carcinoma and initial diagnosis of metastasis.	pronounced symptoms of the affected organ.	

### MamCa 6: Indication for sentinel lymph node biopsy

Numerator: Patients with sentinel node biopsy alone	<b>4.23.</b> a.) Axillary staging shall be part of the surgical therapy of invasive breast carcinoma.	EC Quality Objective: As many patients as possible with sentinel node biopsy in lymph
Denominator:	Consensus	node-negative (pN0) invasive
Patients with primary disease	b.) This shall be done with the help	breast carcinoma without
invasive breast carcinoma and	of sentinel lymph node removal	preoperative tumor-specific
negative pN staging and without	(SNB) with palpatory and	therapy.
preoperative tumor-specific	sonographically unremarkable	
therapy	lymph node status.	

Note: The quality indicator shall be calculated separately for female and male patients (see introduction).

Quality indicator         Reference Recommendation         Evidence base/ further           information         information         information	Quality indicator	Reference Recommendation	Evidence base/ further information	
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### MamCa 7: Therapy of the axillary lymph drainage areas in pN1mi

Numerator: Number of patients with therapy (= axillary dissection or radiotherapy) of the axillary lymph drainage areas Denominator: All patients with primary disease invasive breast carcinoma, pN1mi	<b>4.23.</b> f.) In the case of exclusive micrometastasis, targeted therapy of the lymph drainage areas (surgery, radiotherapy) should be avoided.	LoE 1b Quality Objective: Therapy of the axillary lymph drainage areas in the case of micrometastasis as rarely as possible
Note: Quality Objective <5%		

# MamCa 8: Radiation therapy performed after BET

Numerator: Patients with invasive carcinoma and BET who have received breast radiotherapy. Denominator: Patients with primary disease invasive breast carcinoma and BET	<b>4.36.</b> After breast-conserving surgery for invasive carcinoma, radiation of the affected breast shall be performed. In patients with clearly limited life expectancy (<10 years) and a small (pT1), nodal-negative (pN0), hormone receptor-positive HER2- negative tumor with endocrine adjuvant therapy, provided that the incision margins are free, radiotherapy may be omitted after individual consultation, provided that an increased risk of local recurrence is accepted.	LOE 1a Quality Objective: Adequate rate of radiotherapy after BET in patients with initial invasive breast carcinoma.

# MamCa 9: Endocrine therapy for receptor-positive findings

Numerator:	4.50.	LOE 1a
Patients who have received	a.) Patients with estrogen and/or	Quality Objective:
adjuvant endocrine therapy.	progesterone receptor positive (°)	Endocrine therapy shall be carried
	invasive tumors shall receive	out as often as possible in
Denominator:	endocrine therapy.	receptor-positive patients with
		invasive breast carcinoma.

Quality indicator	Reference Recommendation	Evidence base/ further information
Steroid receptor positive patients with primary disease invasive breast carcinoma.	* (>/=10% progesterone receptor-positive tumor cell nuclei)	

### MamCa 10: Trastuzumab therapy in HER2-positive patients

Numerator:	4.63.	LOE 1b
All patients who have received	a.) Patients with HER2-	Quality Objective:
(neo-) adjuvant trastuzumab	overexpressing tumours with a	If possible, frequent trastuzumab
therapy for more than 1 year.	diameter ≥ 1 cm	therapy for 1 year in HER2-positive
	(immunohistochemical score 3+	patients with invasive breast
Denominator:	and/or ISH-positive) shall	carcinoma >= pT1c
All HER2-positive	receive (neo-)adjuvant treatment	
(immunohistochemical score 3+	with anthracycline followed by a	
and/or ISH-positive) patients with	taxane in combination with	
primary disease invasive breast	trastuzumab. Trastuzumab is to be	
carcinoma >= pT1c	administered for a total duration	
	of one year.	

# 18. Melanoma

(Version 3.3, July 2020)

Quality indicator	Reference Recommendation	Evidence base/ further information
MEL 1: Safety distance (1 cm) for radical excision		
Numerator: Patients with radical excision with safety distance 1 cm Denominator: Patients with a primary cutaneous melanoma and curative radical excision with a tumour thickness ≤ 2 mm	4.8 For malignant melanoma, a radical excision with the safety distances to the tumor margin shall be performed under curative intention to avoid local recurrences of the tumor. Stage: pT1, pT2 Tumour thickness according to Breslow: ≤ 1-2 mm Safety distance: 1cm	LoE 1a Quality Objective: As often as possible safety distance 1cm in curative radical excision of a melanoma with tumour thickness ≤ 2 mm

### MEL 2: Safety distance (2 cm) for radical excision

### Numerator:

Patients with radical excision with safety distance 2 cm

#### **Denominator:**

Patients with a primary cutaneous melanoma and curative radical excision with a tumour thickness > 2 mm

### 4.8

For malignant melanoma, a radical excision with the safety distances to the tumor margin shall be performed under curative intention to avoid local recurrences of the tumor. *Stage:* pT3, pT4 *Tumor thickness according to Breslow:* 

2.01->4.0 mm

Safety distance: 2 cm

### LoE 1a

Quality Objective: As often as possible safety distance 2cm in curative radical excision of a melanoma with tumour thickness > 2 mm

### MEL 3: Presentation Skin Tumor Board

Numerator: Patients presented in the interdisciplinary skin tumor board Denominator: Patients with mucosal melanoma or cutaneous melanoma stage IV	12.1 Patients with metastatic melanoma (from stage III) shall be presented in an interdisciplinary skin tumour board to coordinate further diagnostics and therapy. The possibility of inclusion in clinical trials shall be examined in every case.	EC Quality Objective: Presentation of patients with mucosal melanoma or cutaneous melanoma stage IV in interdisciplinary skin tumor board as often as possible
	10.8 In the treatment of mucosal melanomas, the specialist disciplines responsible for the respective anatomical region (e.g. maxillofacial surgery, ENT, gynaecology, urology, visceral surgery) shall be involved and participate.	

# MEL 4: sentinel lymph node biopsy

Denominator: Patients with a primary cutaneous melanoma ≥ pT2a and no evidence of locoregional or distant metastasis. Idiation of the primary of the primary of the primary cutaneous melanoma are provident of the primary of the primary cutaneous melanoma are provident of the primary of the primary cutaneous melanoma are provident of the primary of the primary cutaneous melanoma are provident of the primary of the primary cutaneous melanoma are provident of the primary of the primary cutaneous melanoma are provident of the primary of the primary cutaneous melanoma are provident of the primary of the primary cutaneous melanoma are provident of the primary of the primary cutaneous melanoma are provident of the primary of the primary cutaneous melanoma are provident of the primary of the primary cutaneous melanoma are provident of the primary of the primary cutaneous melanoma are provident of the primary of the primary cutaneous melanoma are provident of the primary of the primary of the primary cutaneous melanoma are provident of the primary o
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# MEL 5: Therapeutic lymphadenectomy

Numerator: Patients with therapeutic LAD for any pT and c/pN1b or c/pN2b or c/pN3b and M0.6.19ECBergentic LAD shall be performed when there is clinical evidence of lymphogenic metastasis (cytologic or histologicQuality Objective: Therapeutic LAD as often as possible with clinical evidence of lymphogenic
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### MEL 3: Presentation Skin Tumor Board

	confirmation, lymph node	metastasis and no evidence
Denominator:	ultrasonography, CT, PET/CT)	of distant metastases.
Patients with malignant	without evidence of distant	
melanoma with any pT and	metastases.	
c/pN1b or c/pN2b or c/pN3b		
and M0		

### MEL 6: Social services counselling

Numerator: Number of patients who received social work counselling Denominator: All patients with cutaneous melanoma	9.1 Patients with malignant melanoma shall be informed about the legal entitlement to a rehabilitation measure. The application procedure shall be initiated in patients with impaired disease processing (then also applies to in situ melanomas), functional or participation disorders already in the context of primary care. Further prerequisites are the existence of rehabilitation capability and a positive rehabilitation prognosis.	EC Quality Objective: As often as possible counselling by social services for patients with malignant melanoma
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### MEL 7: First-line therapy cutaneous melanoma stad. IV

### MEL 8: Survey of mutation status (KIT, BRAF and NRAS) in mucosal melanoma

Numerator:	10.4	EC
Number of patients with elevation of mutation status	In case of local inoperability or from the stage of lymph node	Quality Objective: If possible, frequent
for KIT, BRAF and NRAS	metastasis onwards, the mutation	determination of the
Denominator:	status of mucosal melanomas for KIT, BRAF and NRAS shall be	mutation status for KIT, BRAF and NRAS in mucosal
	determined.	melanoma cT4 and/or N+.

# MEL 3: Presentation Skin Tumor Board

elanoma cT4 and/or N+

### **MEL 9: LDH determination**

	7.7	LoE 1b
determination t	LDH shall be determined as part of the current AJCC classification in patients with suspected or proven distant metastases.	Quality Objective: LDH determination as often as possible in patients with malignant melanoma at stage IV onset

# 19. Oral cavity carcinoma

(Version 3.0, January 2021)

Quality indicator	Reference Recommendation	Evidence base/ further information

# OCC 1: R0 situation after curative surgery\*

<b>Numerator:</b> Number of patients with R0 as a result of surgical therapy	Based on the international QI "Surgical margins" (Scotland Health Indicators (ISD)). Corresponds to the goal of the guideline: "In all	Not a recommendation, but derived from a specific guideline objective.
Denominator: All patients with first diagnosis of oral cavity carcinoma and resection with curative intention	patients operated on with curative intention, an RO situation shall be achieved as a result of the surgical therapy".	Quality Objective: As often as possible R0 status after completion of curative intended surgical therapy

### OCC 2: Imaging to exclude metastasis

Numerator: Number of patients with examination of the region from the skull base to the upper thoracic aperture with CT or MRI to determine the N category	No. 6.10 To determine the N category, the entire region from the skull base to the upper thoracic aperture shall be examined with CT or MRI.	LoE 2+ Quality Objective: Imaging as frequently as possible to determine the N category in oral cavity carcinoma.
<b>Denominator:</b> All patients with oral cavity carcinoma		

# OCC 3: Imaging to exclude synchronous second tumors, distant metastases, unknown primary tumors (CUP) and recurrences

Numerator:	No. 21	LoE 3
Number of patients with chest	In patients with advanced oral	Quality Objective:
CT to exclude pulmonary	cavity carcinoma (stage III, IV), a	Imaging as frequently as
tumor involvement (filia,	chest CT shall be performed to	possible to exclude
second carcinoma)	exclude pulmonary tumor	metastasis in patients with
Denominator:	involvement (filia, second	advanced oral cavity
All patients with oral cavity	carcinoma).	carcinoma
carcinoma stage III + IV		

### OCC 4: Report of findings after resection

Numerator:	No. 7.4	LoE 2++

Number of patients for whom the histopathological findings are documented as follows: tumour location, macroscopic tumour size, histological tumour type according to WHO, histological tumour grade, depth of invasion, lymph vessel invasion, blood vessel invasion and perineural invasion, locally infiltrated structures, classification pT, details of affected areas and infiltrated structures, R-status, extracapsular growth LK Y/N, pN-classification, minimum safety distance in mm.

### **Denominator:**

All patients with initial diagnosis of oral cavity carcinoma and surgery The histopathological report shall describe, in communication with the clinician, the exact location of any R+ situation that may be present. The tumour preparation shall be sent to the pathologist with clear designation of the anatomical topography. Thread or color marking may be done for this purpose. The histopathologic findings shall include: Tumor location, macroscopic tumor size, histological tumor type according to WHO, histological tumor grade, depth of invasion, lymphatic vessel invasion, blood vessel invasion and perineural invasion, locally infiltrated structures, classification pT, indications of affected districts and infiltrated structures, R status.

### **Quality Objective:** Complete report of findings

after resection as often as possible

### OCC 5: Presentation tumor board

### Numerator:

Number of patients with interdisciplinary treatment after coordination in tumour boards involving the specialist disciplines of oral and maxillofacial surgery, otorhinolaryngology, radiotherapy, oncology, pathology and radiology

#### Denominator:

All patients with oral cavity carcinoma

# 8.1

The treatment of oral cavity carcinoma shall be carried out in an interdisciplinary manner after coordination of each individual case within tumour boards involving the specialist disciplines of oral and maxillofacial surgery, otorhinolaryngology, radiotherapy, oncology, pathology and radiology. EC Quality Objective: Presentation in the tumor board as often as possible

### OCC 6: cervical lymph node resection\*

Numerator: Number of patients with elective neck dissection

### **Denominator:**

All patients with initial diagnosis of oral cavity carcinoma and cN0 of any T category. 8.11Patients with clinically unremarkable lymph node status (cN0) shall undergo elective neck dissection regardless of T stage. LOE 3 Quality Objective: Elective neck dissection as often as possible for clinically inconspicuous lymph nodes

### OCC 7: Interruption of radiotherapy

Numerator: Number of patients without interruption of radiotherapy Denominator: All patients with initial diagnosis of oral cavity carcinoma and radiotherapy	8.27 Interruption of radiotherapy leads to deterioration of tumor control and shall be avoided.	LoE 2+ Quality Objective: No interruption of radiotherapy for oral cavity carcinoma as often as possible
careful and radiotherapy		

Supplementary notes: Definition of "interruption": an interruption exists if it delays the recommended time to completion of 11 weeks

### OCC 8: Postoperative radio(chemo)therapy

Numerator: Number of patients with postoperative radio- or radiochemotherapy	<b>8.35</b> Postoperative radio- or radiochemotherapy shall be given in cases of advanced T stage (T3/T4), scarce or positive	LoE 1++ Quality Objective: Postoperative radio- or radiochemotherapy as often as possible for T3/T4
Denominator: All patients with initial diagnosis of oral cavity carcinoma T3/T4 category, scarce or positive resection margins, perineural or vascular invasion or LK+.	resection margins, perineural invasion, vascular invasion and/or lymph node metastases.	category, scarce or positive resection margins, perineural or vascular invasion or LK+.

Supplementary notes: Definition of "close" safety distance: 1-3 mm

### OCC 9: Dental examination prior to radio(chemo)therapy

Numerator: Number of patients with dental examination before the start of radio- or radiochemotherapy Denominator: All patients with oral cavity carcinoma and radio- or radiochemo-therapy	8.42 Patients shall receive a dental examination and, if necessary, conservative and/or surgical dental rehabilitation before undergoing radio/radiochemotherapy in the oral cavity to prevent osteoradionecrosis.	EC Quality Objective: Dental examination as often as possible before the start of radio(chemo)therapy for oral cavity carcinoma
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### OCC 10: Psychosocial counselling

Number of patients with documented offer of psychosocial care by a socialPatients with oral cavity carcinoma shall be offered psychosocial care by social workers.C C C C	EC Quality Objective: Offer psychosocial care for oral cavity carcinoma as often as possible
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# **Denominator:** All patients with oral cavity carcinoma

\* Indicator can be documented with the updated uniform basic oncology data set and the associated modules (as of: January 2021)

# 20. Renal Cell Carcinoma

(Version 2.0, August 2020)

Quality indicator	Reference Recommendation	Evidence base/ further information
NCa 1: Biopsy before ablative	therapy	
Numerator: Number of patients with confirmation of diagnosis by punch cylinder biopsy before ablative therapy (RFA or cryoablation).	<b>4.4</b> A biopsy shall be performed before ablative therapy.	EC Quality Objective: If possible, confirm the diagnosis with a punch biopsy before ablative therapy.
Denominator: All patients with initial diagnosis of renal cell Ca and ablative therapy (RFA o. cryoablation).		

### NCa 2: Biopsy before systemic therapy

Instology before systemicreflar cen carcinoma and subtype hasin possible, frequentlytherapynot yet been obtained, a biopsy from the primary or a metastasis shall be performed prior to systemic therapy.confirm diagnosis with histology before systemic therapy.Denominator: All patients with renal cell Ca and systemic therapy.performed prior to systemic therapy.therapy.	histology before systemic therapy Denominator:	the primary or a metastasis shall be	histology before systemic
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### NCa 3: Histological type according to current WHO classification

<b>Numerator:</b> Number of patients with	<b>4.9</b> The histological type of renal cell	EC Quality Objective:
reports with:	carcinoma shall be determined	Reports of findings with the
<ul> <li>Classification according to WHO u.</li> </ul>	according to the current WHO classification. Additional tumor types recommended in	listed information as frequently as possible.
- Vancouver Classification u.	the Vancouver Classification of Renal Cell Carcinoma of the International Society of Urologic Pathology (ISUP) shall	<b>Notes:</b> Vancouver classification: G.
- Staging according to TNM	be diagnosed. In particular, this concerns the following	Kristiansen, B. Delahunt, J.R. Srigley et al. Vancouver
<b>Denominator:</b> All patients with renal cell Ca and histology.	<ul> <li>new categories of epithelial tumors:</li> <li>Tubulocystic renal cell carcinoma</li> <li>Renal cell carcinoma associated with acquired cystic kidney disease</li> <li>Clear cell papillary renal cell carcinoma</li> <li>Translocation-associated renal cell carcinoma</li> </ul>	classification of renal tumors. Recommendations of the 2012 International Society of Uropathology (ISUP) consensus conference. pathologist 2014. doi 10.1007/s00292-014-2030-
	- Renal cell carcinoma associated with hereditary leiomyomatosis.	Ζ.

Quality indicator	Reference Recommendation	Evidence base/ further information
		- WHO classification: 2004 TNM 7th edition

# NCa 4: Tumor grade according to Fuhrman

Numerator:	4.10	EC
Number of patients with	The current recommendations of the	Quality Objective:
indication of tumor grade	TNM classification shall be applied. The	If possible, indication of
according to Fuhrman in the	tumour grade shall be given for clear	tumor grade according to
diagnostic report.	cell and papillary renal cell carcinomas	Fuhrman for clear cell or
	according to WHO-ISUP grading. In	papillary renal cell
Denominator:	addition, the percentage of tumor	carcinoma.
All patients with clear cell or	necrosis shall be indicated.	
papillary renal cell Ca.		Notes:
		WHO-ISUP grading

### NCa 5: R0 resection

All patients with initial diagnosis of renal cell Ca and surgical resection.	Number of patients with R0 resection <b>Denominator:</b> All patients with initial diagnosis of renal cell Ca	<b>6.10</b> R0 resection shall be performed for renal tumor removal.	<b>LoE 3</b> <b>Quality Objective:</b> R0 resection as often as possible.
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# NCa 6: Nephrectomy for pT1

Numerator: Number of patients with nephrectomy	<b>6.15</b> Locally limited tumors in clinical stage T1 shall be operated on in a kidney- preserving manner.	LoE 3 Quality Objective: low Nephrectomy for pT1 as rarely as possible.
<b>Denominator:</b> All patients with initial diagnosis of renal cell Ca pT1.		

# NCa 7: Dental examination before bisphosphonate/denosumab therapy

Numerator: Number of patients with a dental examination before the start of therapy Denominator: All patients with	11.3 To prevent osteonecrosis of the jaw, a dental examination and possible dental rehabilitation as well as instruction in oral hygiene shall be performed before starting drug therapy with bisphosphonates or denusomab.	LoE 3+ Quality Objective: Dental examination as often as possible before starting therapy with bisphosphonate or denosumab
renal cell carcinoma and bisphosphonate or denosumab therapy		

Quality indicator	Reference Recommendation	Evidence base/ further information
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NCa 8: Two-year survival metastatic renal cell carcinoma

Numerator: Number of living patients in Cancer the year before the year of recording

Denominator:

All patients with initial diagnosis of metastatic year of ascertainment.

# 2 Year Survival Metastatic Kidney

Z: Number of patients with metastatic cancer at diagnosis for whom at least 2 years have elapsed since diagnosis who are alive 2 years after diagnosis N: Number of patients with metastatic cancer at diagnosis for whom at least 2 renal cell Ca 3 years prior to years have elapsed since diagnosis

### Quality Objective: >=50% Notes:

Source: NHS (UK) http://www.londoncancer.org /media/61502/qualityperformance-indicators-010813.pdf (as of 29/06/2015).

### NCa 9: 30-day mortality after intervention

Numerator: Number of patients who died within 30 days post- intervention. <b>Denominator:</b> All patients with initial diagnosis of renal cell Ca with renal (partial) resection or ablative therapy (RFA, cryotherapy) as initial therapy.	30 Day Mortality After Surgery or Ablation Exclusions: Emergency surgery (nephrectomy). Please Note: This QPI will be reported by treatment type as opposed to a single figure for all treatment options covered by the indicator (i.e. RFA, cryotherapy, SACT or surgery). Z: Number of patients who undergo minimally invasive or operative treatment as first treatment who die within 30 days N: All patients who undergo minimally invasive (RFA, cryotherapy, SACT) or surgical treatment as first treatment for RCC. Target: < 5% (This target reflects the fact	Quality Objective: <5% Notes: Source: Scottish Cancer Taskforce. Renal Cancer Clinical Quality Performance Indicators. Published: January 2012.Updated: December 2014 (v2.1)Published by: Healthcare Improvement http://www.healthcareimprov ementscotland.org/his/idoc.a shx?docid=211c7043-6d86- 4417-acee- 3296e0bfb7bd&version=-1 (As at: 29/06/2015).

# 21. Esophageal Cancer

(Version 2.0, December 2018)

Quality indicator Reference Recommendation evidence base/ further information			
ECa 1: Complete histopathological evaluation of biopsy material (Suggestion of recording for 1 year in DKG-certified visceral oncology centers, then review of further requirement)			

Note: "goblet cell-containing Barrett's mucosa" is not recorded in the ADT dataset.

#### Numerator:

Number of patients with indication of type of neoplastic lesion (Low Grade Dysplasia/Low Grade Intra Epithelial Neoplasia, High Grade Dysplasia/High Grade Intraepithelial Neoplasia=C15x + 8077/0, 8077/2., C16x, +8148/0, 8148/2, Tis classification according to UICC, invasive carcinoma), WHOhist. Type , for invasive carcinoma grading according to current WHO classification, indication whether biopsy from distal esophagus (C 15.5) with Barrett's mucosa containing goblet cells.

#### Denominator:

All patients with V.a. neoplasia of the esophagus (D.00.1, C.15x., C16x) and biopsy (1.440.9 and 1.440.a)

6.19ECthThe histopathological report on the<br/>biopsy material shall include the<br/>following information:-eo-biopsy material shall include the<br/>following information:-intra•Type of neoplastic lesion<br/>(I GD/I G-IEN\_HGD/HG-

- (LGD/LG-IEN, HGD/HG-IEN, carcinoma), in particular whether an invasive carcinoma is present (for HGD/HG-IEN: classification on the biopsy as Tis according to UICC)
- Histological type according to WHO (in particular distinction between squamous cell versus adenocarcinoma)
- For invasive adenocarcinomas:
- Degree of differentiation (grading) according to current WHO classification
- For lesions in the distal esophagus: is a goblet cellcontaining Barrett's

Quality	ind	icato	r
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**Reference Recommendation** 

# evidence base/ further information

# ECa 2: Complete histopathological findings of local excidates

Numerator: Number of patients with indication of type of neo- plastic lesion (C15x +8077/0, 8077/2., C16x, +8148/0, 8148/2), WHO class, grading, lymphatic and/or venous invasion, depth (depth of invasion) + indication of circular and basal resection margin. Denominator: All patients with neoplasia of the esophagus (D.00.1, C.15x, C16x) and endoscopic resection (5.422.2, 5.422.0, 5.422.2, 5.422.3)	<ul> <li>6.21.</li> <li>Histopathological findings on local excisional data (endoscopic resection; ER) shall include the following:</li> <li>Size of the neoplastic lesion in 3 dimensions, if possible</li> <li>Type of neoplastic lesion (LGD/LG-IEN, HGD/HG-IEN, carcinoma) - in particular, whether an invasive carcinoma is present (in the case of HGD/HG-IEN: classification on the resectate as pTis according to UICC)</li> <li>If carcinoma is detected: histological type according to WHO (in particular differentiation squamous cell versus adenocarcinoma, other rare types)</li> <li>For invasive adenocarcinomas: differentiation grade (grading) according to current WHO classification</li> <li>Maximum depth of infiltration: pT1a (m1, m2, m3, m4) / pT1b (sm1, sm2, sm3) plus infiltration depth in µm (or higher pT category).</li> <li>Lymphatic vessel and/or vein invasion (LO vs. L1, V0 vs. V1)</li> <li>Summary assessment of the risk of LK metastasis: low-risk vs. high-risk resection margins with regard to the neoplasia (for ER in toto circular and basal RR; for "piecemeal" ER basal RR, since here the circular RR must usually be evaluated histo-pathologically as RX)</li> </ul>	EC
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Quality indicator	Reference Recommendation	evidence base/ further information
Note:		

For the collection of this indicator, data fields for the indication of the circular and basal resection margin and depth of invasion shall be included in the specific module of the general basic data set of the ADT. Size in three dimensions and summary assessment of LK metastatic risk are not documentable
## Quality indicator

**Reference Recommendation** 

## evidence base/ further information

## ECa 3: Complete histopathological findings of the surgical resectate

Numerator: Number of patients with indication of size of neoplastic lesion, type of lesion (C15x +8077/0, 8077/2., C16x, +8148/0, 8148/2, Tis), WHO class. Grading, pT, pN, Ratio LK, L, V, R-Status (TNM) Denominator: All patients with neoplasia of the esophagus and surgical resection (D.00.1, C.15x, C16x) and surgical resection (OPS 5.422.0, all 5.423, 5.424, 5.425, 5.426)	<ul> <li>6.22.</li> <li>Histopathological findings on surgical resected specimens shall include the following:</li> <li>Size of the neoplastic lesion <ul> <li>Location of the tumour centre in relation to the ÖGJ and indication whether the tumour crosses the ÖGJ</li> </ul> </li> <li>Type of neoplastic lesion <ul> <li>(LGD/LG-IEN, HGD/HG-IEN, carcinoma) - in particular, whether an invasive carcinoma is present (for HGD/HG-IEN: classification as pTis according to UICC)</li> </ul> </li> <li>In case of carcinoma detection: <ul> <li>Histological type according to WHO (especially differentiation squamous cell vs. adenocarcinoma, other rare types)</li> <li>Differentiation grade</li> <li>(grading)</li> <li>Maximum depth of infiltration (pT)</li> <li>)-Lymph or hemangio invasion : L0 vs. L1, V0 vs. V1</li> <li>)-Resection margins (oral, aboral and circumferential): R0 / R1-Lymph node status according to UICC (pN) and ratio of number of affected and examined lymph nodes (/LK)</li> </ul></li></ul>	EC
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Quality indicator	Reference Recommendation	evidence base/ further information
	nor center in relation to the esophago-	gastric junction (ÖGJ) and
whether the tumor crosse	s the ÖGJ cannot be documented.	

Numerator:	8.1.	EC
Number of patients with therapy recommendation	<ol> <li>therapy recommendations shall be made in an interdisciplinary tumor</li> </ol>	
from interdisciplinary	conference.	
tumor conference before	2 Staging information, patient	
therapy (staging	comorbidities, nutritional status, and	
completed)	patient preference shall be	
Denominator:	considered as the basis for treatment recommendation.	
	recommendation.	
All patients with neoplasia		
of the esophagus (D.00.1,		
C.15x, C16x)		

#### ECa 4: Therapy recommendation from interdisciplinary tumor conference

#### Note:

Only the first part of the recommendation was assessed as operationalizable. The guideline authors advocated that the participants of the tumor conference be determined by the DKG Certification Commission for Visceral Oncology Centers. The primary case shall be recorded

ECa 5: Complete endoscopic resection of an intraepithelial neoplasia or a mucosal early carcinoma in Barrett's esophagus

Numerator:	8.2.	EC
Number of patients with		
RO	a. If high-grade intraepithelial	
	neoplasia or mucosal carcinoma (LO,	
	V0, no ulceration, grading G1/G2,	
Denominator:	depth of infiltration $\leq$ m3) is detected	
All patients with a	in Barrett's esophagus, endoscopic	
diagnosis of high-grade	resection shall be performed, as this	
intraepithelial neoplasia	provides staging of the lesion with	
(C16x, 8148/2) or	the question of depth of infiltration in	
mucosal carcinoma	addition to therapy.	
(=8140/3) L0, V0, G1/G2,		
no ulceration, depth of	Therefore, an endoscopic complete	
infiltration ≤ m3 in	resection with curative intention shall	
Barrett's esophagus	be aimed for.	
(K22.7) and endoscopic		
resection (5.422.2,	After successful resection of	
5.422.20. 5.422.3,	neoplasms in Barrett's esophagus, the	
5.422.4).	non-neoplastic Barrett's mucosa shall	
	be thermally ablated to decrease the	
	rate of metachronous neoplasms.	

#### Note:

Only parts a+b of the recommendation were implemented. "no ulcerations" not mapped in documentation systems

#### ECa 6: Complete surgical resection

<b>Numerator:</b> Number of patients with RO	<b>8.9.</b> The goal of surgical resection for squamous cell carcinoma and adenocarcinoma is complete removal	EC
Denominator: All patients with neoplasia of the esophagus (D.00.1, C.15x, C16x) and surgery (surgical resection OPS 5.422.0, all 5.423, 5.424, 5.425, 5.426)	of the tumor (oral, aboral, and circumferential) and regional lymph nodes.	

## ECa 7: preoperative radiotherapy in patients with squamous cell carcinoma of the esophagus T3/T4

Note: Only the first part of the recommendation has been implemented.

## ECa 8: perioperative chemotherapy or preoperative radiochemotherapy in operable patients with adenocarcinoma of the esophagus.

Numerator: Number of patients with pre- and postoperative chemotherapy or preoperative radiochemotherapy Denominator: All patients with adenocarcinoma of the esophagus (C.16x, 8140/3) and surgery (OPS 5.422.0, all 5.423, 5.424, 5.425, 5.426) and cT3 or cT4	<b>8.24.</b> In operable patients with adenocarcinoma of the esophagus or esophagogastric junction category cT3 and resectable cT4 tumors, perioperative chemotherapy or preoperative radiochemotherapy shall be given.	LoE 1a Literature: [3-8]
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Numerator: Number of patients with systemic chemotherapy (first line) Denominator:	<b>9.1.</b> Patients with metastatic or locally advanced adenocarcinoma of the esophagus that cannot be treated curatively shall be offered systemic chemotherapy. The therapeutic goal	LoE 1a
All patients with metastatic adenocarcinoma of the esophagus (C16.x, 8140/3,M1)	is to prolong survival and maintain quality of life.	

#### ECa 9: System therapy of metastatic esophageal carcinoma

## ECa 10: Anastomotic insufficiency after surgical resection

Numerator: Number of patients with	Outcome indicator based on a corresponding QI from Belgium:	Definition as in Low et al, International Consensus on
anastomotic insufficiency	corresponding of nom bergium.	Standardization of Data
(ICD: K91.83	"OC9: Proportion of patients	Collection for Complications
"Insufficiencies of	experiencing anastomotic leakage	Associated With
anastomoses and sutures	after oesophagectomy".	Esophagectomy:
after surgery on: Anus,	arter oesophageetoniy .	Esophagectomy Complications
intestine, stomach,	Classification of anastomotic	Consensus Group (ECCG).
esophagus, rectum)	insufficiency in I-III.	2015 [9]
		2019[3]
	I= locally defect no change in	
Jargicany		
Denominator:		
All patients with neoplasia	II: Localized defect requiring	
of the esophagus (D.00.1,	intervention, but no surgery, e.g. IR	
C.15x, C16x) and surgery	drain, stent or bedside opening	
(surgical resection OPS		
5.422.0, all 5.423, 5.424,	III: Localized defect requiring surgical	
5.425, 5.426)	therapy -shall be recorded	
All patients with neoplasia of the esophagus (D.00.1, C.15x, C16x) and surgery (surgical resection OPS 5.422.0, all 5.423, 5.424,	drain, stent or bedside opening III: Localized defect requiring surgical	

### ECa 11: 11.1 and 11.2: Mortality after surgery

Counter 11.1: Number of patients who	Outcome indicator based on a corresponding QI from Belgium:	Mortality Rate: 90 days better than 30 days to
died postoperatively after		measure.
30 days	OC6: Esophageal resection mortality rate	
	within 30 days [10]	

Counter 11.2: Number of patients who died postoperatively after 90 days Denominator 11. 1+11.2: All patients with neoplasia of the esophagus (D.00.1, C.15x, C16x) and surgery (surgical resection OPS 5.422.0, all 5.423, 5.424, 5.425, 5.426)

# 22. Ovarian tumors

(Version 4.0. March 2020)

Quality indicator	Reference Recommendation	Evidence base/ further information
OvCa 1: Operative staging of earl	y ovarian cancer	
<ul> <li>Numerator: Number of patients with surgical staging with:</li> <li>Laparotomy</li> <li>Peritoneal Cytology</li> <li>Peritoneal biopsies</li> <li>bilateral adnexal extirpation</li> <li>Hysterectomy, extraperitoneal procedure if necessary</li> <li>Omentectomy at least infracolic</li> <li>bds. pelvic and paraaortic lymphonodectomy</li> </ul> Denominator: All patients with initial diagnosis of ovarian cancer FIGO I-IIIA	<ul> <li>7.1</li> <li>Optimal staging shall include the following surgical steps:</li> <li>Longitudinal laparotomy</li> <li>Inspection and palpation of the entire abdominal cavity</li> <li>Peritoneal Cytology</li> <li>Biopsies from all abnormal sites</li> <li>Peritoneal biopsies from inconspicuous regions</li> <li>bilateral adnexal extirpation</li> <li>Hysterectomy, extraperitoneal procedure if necessary</li> <li>Omentectomy at least infracolic</li> <li>Appendectomy (for mucinous/unclear tumor type)</li> <li>bds. pelvic and para-aortic lymphonodectomy</li> </ul>	EC Quality Objective: Surgical staging as often as possible for ovarian cancer FIGO I - IIIA

#### OvCa 2: Offer for genetic testing

### OvCa 3: Macroscopically complete resection of advanced ovarian cancer\*.

Numerator: Number of patients with macroscopically complete resection Denominator:	<b>7.6</b> The goal of primary surgery for advanced ovarian cancer shall be a macroscopically complete resection.	EC Quality Objective: Macroscopically complete resection as often as possible
All patients with initial diagnosis of ovarian cancer $\geq$ FIGO IIB and surgical tumor removal without prior chemotherapy.		

Quality indicator	Reference Recommendation	Evidence base/ further information	
OvCa 4: Surgery advanced ovarian cancer by gynecooncologist			
Numerator: Number of patients whose definitive surgical therapy was carried out by a gynaecological oncologist	<b>7.8</b> In the event of an unexpected diagnosis of advanced ovarian cancer, histological confirmation and description of the spread shall be	LoE 4 Quality Objective: Surgical therapy by gynaecological oncologists as often as	

performed. Definitive treatment shall

possible

Denominator:then be carried out by aAll patients with initial diagnosisgynaecological oncologist in anof ovarian cancer FIGO ≥IIB afterappropriate facility.completion of surgical therapy.

#### OvCa QI 5: Postoperative chemotherapy advanced ovarian cancer\*.

#### OvCa 6: No adjuvant chemotherapy early ovarian cancer

Numerator: Number of patients with adjuvant chemotherapy Denominator: All patients with initial diagnosis of ovarian carcinoma FIGO IA, G 1 and complete surgical staging.	<b>8.1</b> Patients with stage IA grade 1 ovarian cancer after complete surgical staging shall not receive adjuvant chemotherapy.	LoE 1+ Quality Objective: As often as possible, no adjuvant chemotherapy in FIGO IA, G1 and complete surgical staging.
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#### OvCa 7: Platinum-containing chemotherapy early ovarian cancer\*.

Quality indicator	Reference Recommendation	Evidence base/ further information
<b>Denominator:</b> All patients with initial diagnosis OC FIGO IC or IA/B with grade 3	platinum-containing chemotherapy for 6 cycles.	Chemotherapy for initial diagnosis of ovarian cancer FIGO IC or IA/B with grade 3

### OvCa 8: First-line chemotherapy for advanced ovarian cancer

Numerator: Number of patients with 6 cycles of first-line chemotherapy Carboplatin AUC 5 and Paclitaxel 175mg/m2	<b>8.5</b> First-line chemotherapy for patients with advanced ovarian cancer (IIb-IV) shall consist of carboplatin AUC 5 and paclitaxel 175 mg/m2 over 3 h i.v. for a total of 6 cycles every 3	LoE 1++ Quality Objective: If possible, frequently 6 cycles of first-line chemotherapy carboplatin AUC 5 u.
Denominator: All patients with initial diagnosis of ovarian cancer ≥ FIGO IIB	weeks.	paclitaxel 175mg/m2 for initial diagnosis of ovarian cancer ≥ FIGO IIB.

### OvCa 9: Combination therapy for platinum-sensitive relapse

Number of patients with platinum-containing combination therapyPatients with platinum-sensitive ovarian cancer recurrence shall receive platinum-containing combination therapy when chemotherapy is indicated.Denominator: All patients with platinum- sensitive recurrence of ovarianThe following combinations may be considered <sup>a</sup> :	EC Quality Objective: If possible, platinum- containing combination therapy for platinum- sensitive recurrence and recurrence chemotherapy, outside of clinical trials
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#### OvCa 10: No adjuvant therapy BOT\*

Numerator:	11.7	LoE 1+
Number of patients with adjuvant	Patients with borderline tumors shall	Quality Objective:
therapy	not receive adjuvant therapy.	

Quality indicator	Reference Recommendation	Evidence base/ further information
<b>Denominator:</b> All patients with initial diagnosis of borderline tumor		No adjuvant therapy for borderline tumor

\* Indicator can be documented using the updated uniform basic oncology dataset and associated modules (as of January 2019).

## 23. Palliative care

(Version 2.2, September 2020)

Quality indicator	Reference Recommendation	Evidence base/ further information
PAL 1: Reduction of respiratory		
Numerator: Number of patients with reduction of breathlessness within 48h Denominator: All patients diagnosed with "non-curable cancer" (APV and SPV) with moderate/severe respiratory distress on hospital admission.	8.3 Repeated assessment of dyspnea before, during and after symptomatic therapy shall be part of the assessment. Guideline Objectives: Improvement of symptom control; to this end, common symptoms and problems shall be treated according to the current state of science and clinical expertise (chapters on respiratory distress, tumour pain, fatigue, sleep-related disorders/nocturnal restlessness, nausea and vomiting (not tumour therapy- induced), constipation, malignant intestinal obstruction (MIO), malignant wounds, anxiety and depression)	EC Quality Objective: Reduction of respiratory distress as often as possible within 48 h after hospital admission in patients with the diagnosis "non- curable cancer". Screening instruments (open list of validated instruments): Modified Borg Visual analogue scale Numeric Rating Scale MIDOS, IPOS (HOPE/National Palliative Register)

#### PAL 2: Pain reduction

#### Numerator: Number of patients with reduction of pain within 48 h

#### Denominator:

All patients diagnosed with "non-curable cancer" (APV and SPV) with moderate/severe pain on hospital admission.

#### 9.1

Pain history and pain-related clinical examination shall be part of every pain diagnosis.

Objectives of the guideline: Improvement of symptom control; to this end, common symptoms and problems are to be treated according to the current state of science and clinical expertise (chapters on respiratory distress, tumour pain, fatigue, sleep-related disorders/nocturnal restlessness, nausea and vomiting (not tumour therapyinduced), constipation,

## EC

## Quality Objective:

Reduction of pain as often as possible within 48 hours after hospital admission in patients with a diagnosis of "non-curable cancer". Screening instruments (open list of validated instruments): McGill Pain Questionnaire Verbal Rating Scale Numeric Rating Scale MIDOS, IPOS (HOPE/National Palliative Register) if neuropathic pain is suspected, also: painDETECT or DN4

Quality indicator	Reference Recommendation	Evidence base/ further information
	malignant intestinal obstruction (MIO), malignant wounds, anxiety and depression).	

### PAL 3: Opioids and laxatives

Numerator: Number of patients without therapy with osmotically active and/or stimulating laxatives	Pain 9.25 Laxatives for the treatment or prevention of opioid-induced constipation shall be routinely prescribed.	LoE 1+ Quality Objective: Use of laxatives as frequently as possible in patients with a diagnosis of non-curable cancer
Denominator: All patients diagnosed with "non-curable cancer" (APV and SPV) with opioid medication outside the dying phase (= 7 days before death)	13.6 In drug mono- or combination therapy for the treatment of constipation, osmotically active and/or stimulating laxatives shall be used.	and opioid medication

### PAL 4: Symptom assessment in the dying phase

n
list

## PAL 5: Recording of agitation in the dying phase

Numerator: Number of patients with evaluation of agitation in the last 72 h before death Denominator: All deceased patients (APV and SPV)	19.26 In the case of agitation in the dying phase, the primary triggering causes shall be determined, e.g. pain, constipation, urinary retention, respiratory distress, anxiety and/or delirium.	EC Quality Objective: Assessment of agitation in the dying phase as often as possible Screening instruments: Will have to be recorded via IPOS and MIDOS in future

Quality indicator	Reference Recommendation	Evidence base/ further information
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PAL 6: Termination of tumour-specific measures in the dying phase\*.

Numerator: Number of patients with tumor- specific measures (systemic therapy, radiotherapy) within 14 days before death	19.32 Tumor-specific drugs and measures shall be stopped in the dying phase.	LoE 1+ Quality Objective: Termination of tumour-specific measures in the dying phase as often as possible
<b>Denominator</b> : All deceased patients (APV and SPV)		

PAL 7: Oral care

care patients v	vith non-curable cancer Oral	<b>lity Objective:</b> I care as often as possible
Denominator: moisturiz	ation shall be offered cano rmed regularly and	patients with non-curable cer

#### PAL 8: Assessment of malignant wounds

Numerator: Number of patients with assessment of the exulcerating tumor by means of a specific assessment instrument according to the guideline Denominator: All patients diagnosed with "non-curable cancer" (APV and SPV) and exulcerating tumor.	15.2 The assessment of the malignant wound with a complete analysis of the wound situation shall be carried out in writing using structured wound documentation forms at the start of care and for further monitoring at regular intervals during the course of care.	EC Quality Objective: Assessment of malignant wounds as frequently as possible in patients with incurable cancer and exulcerating tumour Specific assessment tools: HOPE FKB-20 FLQA-wk Wound-QoL Pain assessment in patients with chronic wounds
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Quality indicator	Reference Recommendation	Evidence base/ further information
RAL & Decumentation of therapy goals		

#### PAL 9: Documentation of therapy goals

#### PAL 10: Symptom recording using MIDOS or IPOS<sup>2</sup>

Numerator:	5.5	EC
Number of patients with	In the case of a non-curable	Quality Objective:
symptom recording using	cancer, the physical,	As frequent as possible
MIDOS or IPOS	psychological, social and	symptom recording using
	spiritual needs as well as the	MIDOS/IPOS in patients with
Denominator:	stresses and information needs	non-curable cancer
All patients diagnosed with	of patients and relatives shall be	
"non-curable cancer" (APV and	recorded repeatedly and when	
SPV)	the clinical situation changes.	

#### PAL 11: Specialised palliative care

Numerator:	International search for quality	EC
Number of patients who	indicators:	Quality Objective:
received specialized palliative		Evaluation of the care situation
care (inpatient: palliative ward,	QI: Specialized palliative care	of cancer patients with regard to
palliative service, palliative	Numerator: number of people	specialised palliative care
medical day clinic, inpatient	who died with cancer who	
hospice; outpatient: SAPV,	received specialized palliative	
specialized palliative outpatient	care (hospital palliative unit OR	
clinic) received	palliative daycare centre OR	
	multidisciplinary home care) in	
Denominator:	the last 2 years prior to death	
All patients who have died of a		
tumor disease	Denominator: number of people	
	who died with cancer	
	[11]	

\* Indicator can be documented using the updated uniform basic oncology dataset and associated modules (as of January 2019).

<sup>&</sup>lt;sup>2</sup> The DEGAM is in favour of quality indicator 10 not applying to GPs, as there is no reliable evidence of the benefit of such a procedure on patient-relevant outcomes at this level of care.

## 24. Pancreatic Cancer

(Version 1.0, October 2013)

Quality indicator	Underlying recommendation/statement	Evidence base/further comments
PanCa 1: R0 resection		
Numerator: Number of patients with first diagnosis of pancreatic cancer with R0 resection Denominator: All patients with initial diagnosis of pancreatic cancer and resection	<b>6.5</b> The goal of resection in pancreatic cancer shall be resection in healthy tissue (RO).	Quality Objective R0 resection as often as possible Target value: 70 Evidence base LoE 1a Note R0-determination according to recommendation 6.10

### PanCa 2: LK removal

Number of patients with initial diagnosis of pancreatic	<b>6.24:</b> At least 10 regional lymph nodes shall be removed during resection of pancreatic cancer.	Quality ObjectiveIn case of resection, removal of atleast 10 LK as often as possibleTarget value: 85Evidence baseGCP (expert consensus)NoteResection: pancreatic headresection, left resection,pancreatectomy
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Quality indicator	Underlying recommendation/statement	Evidence base/further comments
PanCa 3: Pathology report co	ntent	
Numerator: Number of reports of findings with indication of: pT, pN, M Tumor Grading Ratio of affected to removed LK Denominator: All diagnostic reports of patients with pancreatic cancer and tumor resection	<ul> <li>6.25</li> <li>In the case of resection of a pancreatic carcinoma, the ratio of affected to total removed lymph nodes shall be stated in the pathological-diagnostic report.</li> <li>6.33</li> <li>The indication of the pT-, pN-and M-category as well as the tumor grading shall be indicated in the pathology report.</li> </ul>	Quality Objective Complete pathology reports as often as possible Evidence base Recommendation 6.25: LoE 2b Recommendation 6.33: LoE 2b Note TNM: see [12]
PanCa 4: Adjuvant chemother	rapy	
Numerator: Number of patients with first diagnosis of pancreatic cancer UICC stad. I-III, RO resection and adjuvant chemotherapy with gemcitabine or 5-FU/folinic acid Denominator: All patients with initial diagnosis of pancreatic cancer UICC stad. I-III and RO resection	<ul> <li>7.1</li> <li>After R0 resection of UICC stage I-III pancreatic cancer, adjuvant chemotherapy shall be administered.</li> <li>7.4</li> <li>The following chemotherapy protocols shall be used adjuvantly: <ul> <li>gemcitabine</li> <li>5-FU/folinic acid (Mayo protocol)</li> </ul> </li> </ul>	Quality ObjectiveAdjuvant chemotherapy with gemcitabine and/or 5-FU/folinic acid as often as possible Reference range: 50Evidence base Recommendation 7.1: LoE 1b Recommendation 7.4: LoE 1bNote UICC: [12]Exclusion in the Denominator: Patients who die within 60 days postoperatively or refuse chemotherapy

PanCa 5: Palliative chemotherapy

Numerator:8.1Number of patients with pancreatic cancer UICC stad.In metastatic or locally advanced pancreatic cancer, palliative chemotherapy shall be given if the ECOG performance status is 0 to 2.Denominator:All patients with pancreatic cancer UICC stad. III	Quality ObjectiveAs often as possible palliativechemotherapy stad. III or IV,ECOG 0-2Evidence baseLoE 1aNoteUICC: [12]
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Quality indicator	Underlying recommendation/statement	Evidence base/further comments
(palliative situation) o. IV and ECOG 0-2		Palliative chemotherapy: 8.3 ff.

Abbreviations: LoE = Level of Evidence, EG = Grade of Recommendation, Pancreatic CA = pancreatic cancer, UICC = International Association Against Cancer, ECOG = Eastern Cooperative Oncology Group, QI = quality indicator, stad. = stage, pat. = patient, LK = lymph node.

## 25. Penis Cancer

(Version 1.0, August 2020)

Quality indicator	Reference Recommendation	Evidence base/ further information	
Penis 1: Psychosocial screening	Penis 1: Psychosocial screening		
Numerator: Number of patients screened for psychosocial stress Denominator: All patients with penile carcinoma	3.7All patients shall receive screening for psychosocial distress. Psycho- oncological screening shall be performed as early as possible, at appropriate intervals, if clinically indicated, or repeatedly during the course of the disease if there is a change in the patient's disease status (e.g. recurrence or progression of the disease).	EC Note: Validated screening instruments according to S3 guideline psychooncology Quality objective: Screening for psychosocial stress in penile cancer patients as frequently as possible	
Penis 2: Report of findings after	surgical resection		
Numerator: Number of patients with the following information in the pathology report: <ul> <li>Histological subtype according to WHO classification</li> <li>Grading</li> <li>anatomical localization</li> <li>TNM classification</li> <li>perineural invasion</li> <li>Infiltration depth</li> <li>lymphovascular invasion</li> <li>venous invasion</li> <li>Presence of precursor lesions (yes/no)</li> <li>Presence of concomitant inflammatory diseases (yes/no)</li> <li>Association with HPV</li> </ul>	<ul> <li>4.6</li> <li>In addition to the histological tumour type and grading of the penile carcinoma, the pathological report on the primary tumour shall contain statements on the following prognostic factors: <ul> <li>anatomical localization,</li> <li>perineural invasion,</li> <li>Infiltration depth,</li> <li>lymphovascular invasion</li> <li>venous vascular invasion,</li> <li>Growth patterns on the invasion front.</li> </ul> </li> </ul>	EC If possible, complete pathological report after surgical resection for initial diagnosis of penile carcinoma	

Denominator:

Quality indicator	Reference Recommendation	Evidence base/ further information
All patients with initial diagnosis of penile carcinoma (ICD-10: C60) and surgical resection		

#### Penis 3: Report of findings after surgical removal of lymph nodes

Numerator:	4.7	EC
Number of patients with the	The pathological report of the	Quality Objective:
following information in the	lymph nodes shall include the	If possible, complete
pathological findings report:	number of lymph nodes removed,	pathological report after
Number of lymph nodes	the number of affected lymph	surgical removal of lymph
(removed/infested)	nodes and the maximum	nodes in the case of initial
Maximum metastasis size	metastasis size, as well as	diagnosis of penile
Capsule overgrowth (yes/no)	statements on whether the	carcinoma
	metastasis remains confined to the	
Denominator:	lymph node or exceeds the lymph	
All patients with initial diagnosis	node capsule.	
of penile carcinoma (ICD-10: C60)		
and surgical removal of lymph		
nodes		

### Penis 4: Invasive lymph node diagnostics

Numerator:	6.5	LoE 3
Number of patients with invasive	In penile carcinomas from stage	Quality objective:
lymph node diagnostics (modified	pT1b onwards, clinically	Invasive lymph node
inguinal lymphadenectomy or	inconspicuous, nonpalpable	diagnostics as often as
sentinel lymph node biopsy)	inguinal lymph nodes shall be	possible for the initial
	examined invasively. This can be	diagnosis of penile
Denominator:	done by modified inguinal	carcinoma from stage pT1b
All patients with initial diagnosis	lymphadenectomy or by dynamic	and cN0 onwards
of penile carcinoma $\geq$ pT1b, cN0	sentinel lymph node biopsy.	

#### Penis 5: Control biopsy after topical drug therapy or laser therapy

Numerator: Number of patients with control biopsy Denominator: All patients with an initial diagnosis of penile carcinoma and topical drug therapy (5-FU, Imiquimod) or laser therapy.	7.9 After topical drug therapy or laser therapy, a control biopsy shall be performed postintervention to verify local tumor control and regular long-term follow-up shall be performed.	EC Quality Objective: As frequent as possible control biopsies after topical drug therapy or laser therapy for the initial diagnosis of penile carcinoma
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### Penis 6: Ipsilateral pelvic lymph node removal

Numerator:	7.36	EC
Number of patients with	Pelvic lymph node removal (iliac	Quality Objective:
ipsilateral pelvic lymph node	lymph node group) shall be	If possible, frequent
removal	performed ipsilaterally in patients	ipsilateral pelvic lymph node
	with 2 or more affected inguinal	

Quality indicator	Reference Recommendation	Evidence base/ further information
Denominator: All patients with an initial diagnosis of penile carcinoma (ICD-10: C60), pN3	lymph nodes or for capsular lymph node metastases.	removal for initial diagnosis of penile carcinoma with pN3

#### Penis 7: Presentation tumor board

Numerator:	7.43	EC
Number of patients with	Patients with metastatic penile	Quality Objective:
presentation in the tumor board	carcinoma and/or the need for	Presentation of patients with
	multimodal therapy shall be	metastatic penile carcinoma,
Denominator:	discussed in an interdisciplinary	M1 in the tumor board as
All patients with metastatic penile	tumor board.	often as possible
carcinoma, M1		

### Penis 8: Neoadjuvant chemotherapy

Numerator:	7.44	LoE 3
Number of patients with	Penile carcinoma patients with	Quality Objective:
neoadjuvant chemotherapy	fixed inguinal lymph nodes with	Neoadjuvant chemotherapy
	good general condition (ECOG < 2)	as often as possible for
Denominator:	shall receive neoadjuvant	initial diagnosis of penile
All patients with initial diagnosis	chemotherapy.	carcinoma with cN3 (fixed
of penile carcinoma cN3 (fixed		inguinal LK) and ECOG < 2
inguinal LK) and ECOG < 2.		

The Numerator is always a subset of the Denominator.

## 26. Prostate Cancer

(Version 5.1, May 2019)

Quality indicator	Reference Recommendation	Evidence base/ further information	
PCa 1: Report of findings Punch	PCa 1: Report of findings Punch biopsy*		
<ul> <li>Numerator:</li> <li>Number of patients with report of findings with indication of:</li> <li>Localization and number of carcinoma-positive tissue samples in relation to the number of punctures taken.</li> <li>Semiquantitative estimation of the percentage of total carcinoma area/total punch area</li> <li>Gleason grade: all primary and secondary grades as well as the least differentiated grade, each in "%".</li> <li>Indication of the total Gleason score.</li> </ul>	<ul> <li>4.42</li> <li>In case of positive carcinoma detection, the following information shall be provided by the pathologist to the urologist:</li> <li>Number and location of carcinoma-positive tissue samples.</li> <li>Semiquantitative estimation of the percentage of total carcinoma area/total punch cylinder area.</li> <li>Gleason grade: Indication of all primary and secondary grades as well as the least differentiated grade, each in "%". Indication of the total Gleason score.</li> <li>Lymphatic vessel (L) and venous (V) invasion (L0 or L1, V0 or V1).</li> <li>Perineural infiltration (Pn0 or Pn), if assessable, shall indicate capsular infiltration, capsular overgrowth (cT3a), and seminal vesicle infiltration (cT3b).</li> </ul>	LOE 4 Quality Objective: Complete report of findings after punch biopsy as often as possible	
PCa 2: Report of findings lymph nodes*			

Numerator:	4.49	LoE 4
Number of patients with reports	All lymph nodes shall be	Quality Objective:
of findings indicating:	macroscopically dissected and then	Complete reports of findings
pN category	embedded, examined and counted to	after lymphadenectomy as
	determine the lymph node category.	often as possible

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Quality indicator	Reference Recommendation	Evidence base/ further information
Number of affected LK in relation to removed LK <b>Denominator:</b> All patients with initial diagnosis of prostate cancer and lymphadenectomy	The lymph nodes shall be assessed separately according to the regions indicated. After histological examination, the pN category (pN0 or pN1) shall be determined. The total number and the number of affected lymph nodes as well as the diameter of the largest metastasis shall be indicated.	

### PCa 3: Active Surveillance\*

Numerator: Number of patients with PSA value $\leq 10$ ng/ml and Gleason score $\leq 6$ and cT1 or cT2a and Tumor in $\leq 2$ punches with removal of 10-12 punches, and $\leq 50 \%$ tumor per punch before the start of the AS Denominator: All patients with an initial diagnosis of prostate cancer and Active Surveillance	<b>5.8</b> a. The following parameters shall be a prerequisite for the selection of an Active Surveillance strategy: -PSA value $\leq 10$ ng/ml; -Gleason score $\leq 6$ ; -cT1 or cT2a; -Tumor in $\leq 2$ punctures with guideline-guided removal of 10-12 punctures. - $\leq$ 50% tumor per punch. b. In Gleason 3+4 (7a), AS shall be tested in the context of studies. c. Age and comorbidity shall be taken into account when determining the indication.	LoE 4 Quality Objective: If possible, frequent presence of the listed parameters at the start of AS

### PCa 4: Radiotherapy and hormone ablative therapy for localized high-risk prostate cancer\*

Numerator:	5.67	LoE 1+
Number of patients with	a. Patients with localized prostate	Quality Objective:
additional adjuvant hormone	carcinoma of the high risk	Adjuvant hormone ablative
ablative therapy	profile shall receive adjuvant	therapy as often as possible
	hormone ablative therapy in	for localized high-risk prostate
Denominator:	addition to percutaneous	cancer and percutaneous
All patients with initial	radiotherapy. This can start up	radiotherapy
diagnosis of high risk T1-2 N0	to 6 months before radiotherapy.	

Quality indicator	Reference Recommendation	Evidence base/ further information
M0 prostate carcinoma and percutaneous radiotherapy.	<ul> <li>b. Hormone ablative therapy shall last at least 24 months, preferably 36 months.</li> <li>c. In patients with localized prostate carcinoma of the high risk profile, the decision on the duration of hormone ablative therapy shall be made individually, in particular depending on comorbidity and tolerability.</li> </ul>	

**Notes:** High risk: PSA > 20 ng/ml or Gleason score = 8 or cT category 2c.

## PCa 5: No hormone ablative therapy for locally advanced prostate cancer with radical prostatectomy\*

Numerator: Number of patients with	<b>5.64</b> a. In patients with clinically locally	LoE 1+ Quality Objective:
adjuvant hormone ablative	advanced prostate carcinoma, a prognostic advantage of neoadjuvant	No adjuvant hormone ablative therapy in locally advanced
licitapy	hormone ablative therapy has not	prostate cancer and radical
Denominator:	been proven.	prostatectomy (RPE).
All patients with initial	b. After radical prostatectomy,	
diagnosis of prostate carcinoma	patients with locally advanced	
T3-4 N0 M0 and RPE	prostate carcinoma without lymph	
	node metastases (PSA in the zero	
	range) shall not receive adjuvant	
	hormone ablative therapy.	

## PCa 6: No hormone ablative therapy for low-risk localized prostate cancer and percutaneous radiotherapy\*

#### PCa 7: Salvage radiotherapy for recurrent prostate cancer\*

<b>Numerator:</b> Number of patients starting SRT and with PSA<0.5ng/ml	<b>6.10</b> a. SRT shall be started as early as possible (PSA before SRT < 0.5 ng/ml).	LoE 2-3 Quality Objective: Start SRT as often as possible with PSA <0.5ng/ml
<b>Denominator:</b> All patients Z.n. RPE and PSA recurrence and SRT	SRT = Salvage radiotherapy	

### PCa 8: Prevention of osteonecrosis of the jaw

Numerator: Number of patients with dental examination before starting therapy Denominator: All patients with prostate carcinoma and bisphosphonate o. denosumab therapy	6.52 To prevent osteonecrosis of the jaw, a dental examination and any necessary dental rehabilitation shall take place before the administration of bisphosphonates or denosumab, as well as instruction and motivation of the patient to maintain above- average oral hygiene.	LoE 3+ Quality Objective: Dental examination as often as possible before starting bisphosphonate or denosumab therapy

### PCa 9: Postoperative complications after radical prostatectomy\*

Numerator: Number of patients with complication Clavien-Dindo grade III or IV within the first 6 months after RPE Denominator: All patients with initial diagnosis of prostate carcinoma T1-2 N0 M0 and RPE	Based on a corresponding ICHOM indicator. Corresponds to the aim of the guideline: recording of postoperative complications.	Not a recommendation, but derived from a specific guideline objective. Justification requirement: 10% <b>Quality Objective:</b> As rare as possible Clavien- Dindo grade III or IV after RPE in localized prostate carcinoma
Notes: Source for classification: [850] Grade III complications requiring surgical, endoscopic or radiological intervention Grade IIIa as before but without general anaesthesia Grade IIIb as before but with general anaesthesia Grade IV Life-threatening complication requiring intensive medical treatment Grade IVa Failure of an organ Grade IVb Multiple organ failure		

### PCa 7: Salvage radiotherapy for recurrent prostate cancer\*

#### PCa 10: Complications after definitive radiotherapy\*

Numerator: Number of patients with complication CTCAE Grade III or IV within the first 6 months after end of radiotherapy Denominator: All patients with first diagnosis of prostate cancer and definitive radiotherapy	Based on a corresponding ICHOM indicator. Corresponds to the aim of the guideline: recording of complications after definitive radiotherapy.	Not a recommendation, but derived from a specific guideline objective. <b>Quality Objective:</b> As rarely as possible CTCAE Grade III or IV after definitive radiotherapy
<b>Notes:</b> Source for classification: [13]		

\* Indicator can be documented with the updated uniform basic oncology data set and the associated modules (as of September 2017).

## 27. Psychooncology

(Version 1.1, January 2014)

Quality indicator	Underlying recommendation/statement	Evidence base/comments	
	PSO 1: Structural requirements of psycho-oncological care areas: Cross-sectoral coordination of psycho-oncological care		
Numerator: Number of patients who received information about psycho-oncological support services Denominator: All cancer patients with initial diagnosis, recurrence or first distant metastasis*.	<ul> <li>4.3</li> <li>Patient-oriented information about psycho-oncological support services shall be provided at an early stage and during the course of the disease.</li> <li>8.7</li> <li>Psychoeducational interventions shall be offered to people with cancer regardless of the level of distress.</li> </ul>	EC (4.3); LoE 1a (8.7) Supplementary note: Definition of "psycho- oncological support service": psychosocial counselling, individual or group psychotherapeutic intervention, psychoeducational intervention, relaxation techniques, provided by the appropriately qualified persons. The aim of the indicator: The facility shall name concrete contacts for the patient as an example reference. This is intended to promote the formation of networks within and across facilities.	

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#### PSO 2: Structural requirements of psycho-oncological care areas: self-help groups

#### Numerator:

Number of patients who received information about support services offered by cancer selfhelp groups/cancer selfhelp organizations

#### Denominator:

All cancer patients with initial diagnosis, recurrence or first distant metastasis\*.

#### 4.2

Cancer patients and their relatives shall be informed about qualified support services offered by cancer self-help groups / cancer self-help organisations (discussions with people affected by the same disease, assistance in dealing with the disease, therapies and therapy consequences in everyday life) in every phase of the care process.

#### EC

Supplementary note: The information can be conveyed by flyer, the flyer shall be handed over personally. In the flyer, the institution in question states specifically where which offer can be found and names contact persons.

#### **PSO 3: Diagnostics: Screening, Diagnostic Procedures**

7.3

#### Numerator:

Number of patients with use of validated and standardized screening instruments (e.g. the Distress Thermometer or the HADS-D)

#### Denominator:

All cancer patients with initial diagnosis, recurrence or first distant metastasis\*. Validated and standardized screening instruments shall be used to assess psychosocial stress. The distress thermometer or the HADS-D are recommended as screening instruments. In addition, the individual psychosocial support needs are to be inquired about. **7.2** All patients shall be screened for psychosocial stress. Psychooncological screening shall be performed as early as possible, at

performed as early as possible, at appropriate intervals, if clinically indicated, or repeatedly during the course of the disease if there is a change in the patient's disease status (e.g. recurrence or progression of the disease).

#### EC

For literature on validated screening instruments with a defined cut-off (HADS-D, HSI: Distress Thermometer, FBK, PO-BADO, PHQ-9) see the long version of the guideline. Supplementary note: Validated screening instruments with a defined cut-off are:

- Hospital Anxiety and Depression Scale (HADS-D)
- -Hornheider Screening Instrument (HSI)
- -Distress Thermometer (DT)
- -Questionnaire on the Burden of Cancer Patients (FBK-23 and FBK-10)
- Basic psycho-oncological documentation (PO-BADO, PO-BADO KF and PO-BADO breast cancer)
- Patient Health Questionnaire -Depression Module (PHQ-9)

The patient's refusal of screening shall be reported separately. If no screening was performed, it shall be checked whether a diagnostic

interview was performed as an initial measure. If this is the case, it is considered as a performed screening.

an appropriate psychological

### PSO 4: Diagnostics: Diagnostic procedures

Numerator:	7.4	EC
Number of patients with	In case of positive screening and/or	
a diagnostic interview to	patient request, a diagnostic	Supplementary note:
clarify psychosocial	interview shall take place to clarify	Validated screening
stress and psychological	psychosocial stress and	instruments with a defined
comorbidity	psychological comorbidity.	cut-off are:
,	,	Hospital Anxiety and
Denominator:		Depression Scale (HADS-D)
All cancer patients with		Hornheider Screening
initial diagnosis,		Instrument (HSI)
recurrence or first distant		Distress Thermometer (DT)
metastasis and with		Questionnaire on the Burden
positive screening for		of Cancer Patients (FBK-23
psychosocial distress*.		and FBK-10)
		Basic psycho-oncological
		documentation (PO-BADO, PO-
		BADO KF and PO-BADO breast
		cancer)
		Patient Health Questionnaire -
		Depression Module (PHQ-9)
		Definition of "diagnostic
		interview": The diagnostic
		interview includes the
		identification of psychosocial
		stress, mental disorders and
		other problems with the aim
		of describing existing
		problems and disorders and
		their change. In addition, it is
		clarified whether these
		problems are subsyndromal
		or fulfil the criteria for a
		mental disorder. The
		clarification and classification
		of the existing problems and
		disorders is carried out
		according to a classification
		system (ICD-10 or DSM IV),
		whereby in the diagnosis of a
		clinically relevant comorbid
		disorder the differentiation
		from somatic complaints or

	reaction to the tumour disease as well as the appropriate consideration of biological-organic consequences of the cancer disease or treatment are to be taken into account.
	Actors: Psycho-oncology professionals

PSO 5: Psycho-oncological interventions: Concepts and general principles for the indication of psycho-oncological treatment.

Numerator: Number of patients offered individual and/or group psychotherapeutic intervention. Denominator: All cancer patients with initial diagnosis, recurrence or first distant metastasis and with adjustment disorder (ICD- 10 F43.2.) *.	<b>8.5</b> Patients with adjustment disorder (identified through screening and further diagnostic testing) shall be offered patient-centred information and psychosocial counselling, as well as additional individual and/or group psychotherapeutic intervention.	EC
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PSO 6: Psycho-oncological interventions: Concepts and general principles for the indication of psycho-oncological treatment, psychosocial counselling.

Numerator: Number of patients offered psychosocial counselling Denominator: All cancer patients with initial diagnosis, recurrence or first distant metastasis*.	<ul> <li>8.11</li> <li>Psychosocial counselling shall be offered to cancer patients and their relatives in all phases of the disease, according to their needs and as early as possible.</li> <li>8.2</li> <li>Patients with no or low burden (determined by screening through further diagnostics) shall be offered patient-oriented information and psychosocial counselling.</li> </ul>	EC Supplementary note: Psychosocial counselling shall be offered personally by social workers/social pedagogues and psycho- oncology specialists (cf. QI 2: the personal handing over of a flyer). Actors: social workers/ social pedagogues and psycho- oncology specialists

PSO 7: Patient-centred communication: measures for continuous education to improve the communicative competence of medical staff and their effectiveness

Numerator: All doctors and nurses	11.5 Physicians and other professional	EC Literature: Barth and Lannen
with further education and training measures to	groups working in oncology shall undergo further training to improve	(2011)[14]
improve their	their communication skills.	Supplementary note: Further
communicative		continuous education and
competence		training measures to teach
<b>B</b>		specific interviewing skills:
Denominator:		Postgraduate; number of
All doctors and nurses		teaching units must be
working in oncology		proven (e.g. certificate of
		participation). The training
		shall be at least 3 days (24
		hours) in length. Reasons for the deviation of
		the QI from the guideline recommendation: In
		accordance with the
		prioritization of measures of
		the National Cancer Plan, the
		focus is on physicians and
		nurses, since these two

professional groups are considered to have priority in patient care. In the case of psychotherapists, it can be assumed that skills in communication and interview management were taught in their respective basic training courses.

#### Legend:

\*= This definition of the **Denominator** was made in order to enable uniform documentation in the first place. To avoid multiple documentation, the palliative situation is recorded by "first distant metastasis". The review shall take place at inpatient admission. The QIs are to be understood as "minimum standards", i.e. psycho-oncological interventions in situations other than those listed in the **Denominator** are explicitly not to be excluded by the indicator.

## 28. Supportive therapy

(Version 1.3, February 2020)

Quality indicator	Reference Recommendation	Evidence base/ further information
Supp 1: Antiemesis in highly e	emtogenic tumor therapy	
Numerator: Patients with administration of 5-HT3-RA and NK1-receptor antagonist and dexamethasone prior to 1st drug therapy Denominator: All patients with completed drug highly-emetogenic tumor therapy	Acute Phase: For one-day tumor therapy with an emesis risk > 90%, prophylaxis with a 5-HT3-RA, an NK1 receptor antagonist, and dexamethasone shall be given before chemotherapy. Delayed Phase: In the case of tumour therapy with an emesis risk > 90 %, prophylaxis with dexamethasone shall be given for a further 2-4 days after the end of the highly emetogenic tumour therapy. If the NK1 receptor antagonist aprepitant was part of the primary prophylaxis, it must be administered at 80 mg daily for 2 additional days. Fosaprepitant or netupitant/palonosetron shall only be administered on day 1 of tumour therapy.	LoE 1a Quality Objective: If possible, frequent administration of 5-HT3-RA u NK1 receptor antagonist u dexamethasone prior to the 1 st drug treatment of the tumour

#### Notes:

Highly emetogenic tumor therapy: anthracycline/cyclophosphamide combination; carmustine, cisplatin, cyclophosphamide  $\geq$  1500 mg/m<sup>2</sup> dacarbazine, mechlorethamine, streptozotocin, hexamethylmelamine, procarbazine.

#### Supp 2: Dental examination before bisphosphonates/denosumab

Numerator:	For the prevention of	LoE LA
	osteonecrosis of the jaw, before	Quality Objective:

Quality indicator	Reference Recommendation	Evidence base/ further information
Number of patients with dental examination before the start of Bisphosphonate or denosumab therapy <b>Denominator:</b> All patients with malignant Tm (= breast, prostate, lung carcinoma) and bisphosphonate or denosumab therapy	<ul> <li>the administration of bisphosphonates or Denosumab</li> <li>a dental examination and any necessary dental rehabilitation, and</li> <li>the patient is instructed and motivated to maintain above- average (careful and regular) oral hygiene,</li> <li>as well as in the course</li> <li>regular risk-adapted dental examinations take place.</li> </ul>	Dental examination as often as possible before the start of Bisphosphonate or denosumab therapy
<b>Notes</b> : The dental examination also includes any necessary dental rehabilitation		

#### Supp 3: Dental examination before radiotherapy for KHT

Numerator: Patients with dental examination before starting therapy Denominator: All patients with KHT-Tm and curatively intended radiotherapy	<ul> <li>For the prophylaxis of osteoradionecrosis in the head and neck region, the following measures shall be observed: before radiation therapy:</li> <li>Dental rehabilitation under special conditions</li> <li>after radiation therapy:</li> <li>Dental rehabilitation under special conditions,</li> <li>masticatory rehabilitation with maximum protection of the mucous membrane and attention to special measures in the case of dental/maxillofacial surgery.</li> <li>Measures Pre-/peri- and post-radiotherapy very good oral hygiene</li> </ul>	EC Quality Objective: Dental examination as often as possible before starting therapy
Notes:		

- The dental examination includes the dental rehabilitation if necessary
- Head and neck tumours: <u>all tumours in the head and neck region</u>

# 29. C

## Cervical carcinoma - diagnostics, therapy, aftercare

(Version 1.0, September 2014)

Quality indicator	Reference Recommendation	evidence base/ further information
ZxCa 1: Presentation in tu	mor conference	
Numerator: Number of patients with presentation at the tumor conference Denominator: All patients with initial diagnosis, recurrence or new distant metastasis of cervical carcinoma.	All patients with histologically proven cervical carcinoma shall be presented in an interdisciplinary tumor conference.	EC Notes: Participants of the tumor conference are gynecologist, pathologist, radiologist, radio- oncologist.

### ZxCa 2: Information in the report of findings at initial diagnosis and tumor resection

Quality indicator	Reference Recommendation	evidence base/ further information
Denominator: All patients with initial diagnosis of cervical carcinoma and tumor resection	<ul> <li>histological type according to WHO</li> <li>Grading</li> <li>Detection/absence of lymphatic or venous intrusion (L- and V- status)</li> <li>Detection/absence of perineural sheath infiltrates (Pn status)</li> <li>Staging (TNM)</li> <li>Depth of invasion and extension in mm for pT1a1 and pT1a2</li> <li>three-dimensional tumour size in cm (from pT1b1)</li> <li>minimum distance to the resection edges</li> <li>R classification (UICC)</li> </ul> Preparation after radical hysterectomy and lymph node removal 8.11. The morphological work-up shall be performed in such a way that all therapeutically and prognostically relevant parameters can be determined. The findings shall be based on the currently valid WHO classification for tumour typing and the current TNM classification for staging as well as the R classification (UICC). 8.13 The findings report shall include the following information: <ul> <li>histological type according to WHO</li> <li>Grading</li> <li>Detection/absence of lymphatic or venous intrusion (L- and V- status)</li> <li>Staging (TNM), in conized patients taking into account the conization findings</li> <li>Detection/absence of perineural sheath infiltrates (Pn status)</li> <li>Staging (TNM), in conized patients taking into account the conization findings</li> <li>Depth of invasion and extension in mm for pT1a1 and pT1a2</li> <li>three-dimensional tumour size in cm (from pT1b1)</li> <li>minimum distance to the resection edges</li> <li>R classification (UICC)</li> </ul>	

## **Reference Recommendation**

evidence base/ further information

ZxCa 3: Information in the report of findings in case of lymphonodectomy

<ul> <li>Numerator:</li> <li>Number of patients with report of findings with information on:</li> <li>Number of affected LK in relation to removed LK</li> <li>Assignment to the sampling site (pelvic/paraaortic)</li> <li>Indication of the largest extension of the largest LK- metastasis in mm/cm</li> <li>Indication of absence/evidence of capsular rupture of the LK metastasis.</li> </ul>	<ul> <li>Preparation after radical hysterectomy and lymph node removal 8.15</li> <li>In the case of lymphonodectomy specimens in the course of surgical therapy for cervical carcinoma, all removed lymph nodes shall be examined histologically.</li> <li>Preparation after radical hysterectomy and lymph node removal 8.17</li> <li>The findings report shall include the following information:</li> <li>Indication of the number of affected lymph nodes in relation to the number of removed lymph nodes in relation to the sampling location (pelvic/paraaortic).</li> <li>+ appropriate background text:</li> <li>Requirements for the diagnostic report of lymphonodectomy specimens are:</li> <li>Indication of the number of aremoved/examined LK in relation to the sampling location.</li> <li>Indication of the number of affected lymph nodes in relation to the number of removed/examined LK in relation to the sampling location.</li> <li>Indication of the largest extension of the largest LK-metastasis in mm/cm</li> <li>Indication of absence/evidence of capsular rupture of the LK-metastasis</li> </ul>	EC
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### ZxCa 4: cytological/histological lymph node staging

Numerator:	Operative staging/sentinel to define	EC, Consensus
Number of patients with	tumor stage 9.2	
cytological/histological	The therapy shall depend on the	Notes: Cytologic/histologic
LK-staging	histological tumor stage, verified by	LK staging = for diagnostic
	surgical staging or interventional	purposes; no
Denominator:	diagnostics.	lymphonodectomy.
All patients with cervical		
carcinoma FIGO stage > =		
la2 - Iva		

Quality indicator	Reference Recommendation	evidence base/ further information
ZxCa 5: Cisplatin-containing radiochemotherapy		
Numerator: Number of patients with cisplatin-containing radiochemotherapy Denominator: All patients with initial diagnosis of cervical carcinoma and primary radiochemotherapy	Radio(chemo)therapy 11.4 In patients with cervical carcinoma, if primary radiotherapy is indicated from stage lb2, it shall be given in combination with cisplatin-based chemotherapy.	<b>LoE 1++</b> Literature: [17, 18]

### ZxCa 6: Adjuvant radio(chemo)therapy

Numerator:	Objective and question of the	Quality Objective
Number of patients with	guidelineSurvey of the	Current: Assessment of the
adjuvant	status quo of medical care, in particular	status quo and long-term:
radio(chemo)therapy	with reference to quality indicator 6 on	Reduction of adjuvant
	adjuvant radio(chemo)therapy, since no	therapy in favor of primary
Denominator:	data exist on how many patients are	surgery alone or
All patients with initial	treated adjuvantly with combined	radio(chemo)-therapy
diagnosis of cervical	cisplatin-containing radio(chemo)therapy	alone in the risk
carcinoma and radical	according to stage.	population (unimodal
hysterectomy		therapy).

## ZxCa 7: Histological backup

<b>Numerator:</b> Number of patients with pre-therapeutic histological confirmation	Extended diagnostics for suspected recurrence 17.4 If a locoregional recurrence is suspected, histological confirmation shall be performed.	EC
<b>Denominator:</b> All patients with cervical carcinoma and therapy of local recurrence		

### ZxCa 8: Diagnosis of spread of local recurrence

Numerator: All patients with imaging diagnostics (CT thorax and abdomen and scalenus ultrasound) to exclude distant metastases Denominator: All patients with local recurrence of cervical	Diagnosis of local recurrence 18.1 In the event of local recurrence, appropriate imaging diagnostics shall be performed to exclude distant metastases in order to plan therapy.	EC
carcinoma		

#### **ZxCa 9: Exenteration**

<b>Numerator:</b> Number of patients with local R0 resection	Therapy of local recurrence 18.5 Exenteration for recurrence shall only be performed if resection in sano appears possible and there is no distant	EC
Denominator: All patients with cervical carcinoma and tumour recurrence and exenteration	metastasis.	

## 30. Cervical carcinoma - prevention

(Version 1.1, March 2020)

Quality indicator	Reference Recommendation	Evidence base/ further information
PrevZxCa 1: Participation in cer	vical cancer screening	
Numerator: Women who participated in the screening		Quality Objective: Participation in cervical cancer screening as often as possible
Denominator: All women who have received an invitation for cervical cancer screening		

PrevZxCa 2: HPV and Pap smear within screening

<b>Numerator:</b> Women with HPV and Pap smears within organized screening	<b>Quality Objective:</b> HPV and Pap smear as frequently as possible within the screening process
<b>Denominator:</b> All women with HPV and/or Pap smears.	

#### PrevZxCa 3: Repeated Pap test in screening

screening results requiring

clarification

Quality indicator	Reference Recommendation	Evidence base/ further information
PrevZxCa 4: Differential diagno	stic test after screening in need	of clarification Result
Numerator: Women with subsequent differential diagnostic test (HPV, cytology, colposcopy, p16/Ki67)		Quality Objective: Differential diagnostic test as often as possible after result of cervical cancer screening that requires clarification
Denominator: All women with cervical cancer		

Note: Result requiring clarification=Pap IIID2, IVa-p, IVa-g, IVb-p, IVb-g, V-p, V-g, V-e and V-x

#### PrevZxCa 5: Therapy after abnormal differential diagnostic test in screening

Numerator:	Quality Objective:
Women with therapy within 6	If possible, frequent therapy
months after abnormal test	within 6 months after
result	abnormal differential
	diagnostic test in screening
Denominator:	
Women with abnormal	
differential diagnostic test in	
screening and thus indication	
for therapy	

PrevZxCa 6: Clarification colposcopy in case of abnormal Pap in cert. Dysplasia unit / consultation hour

Numerator: Patients with clarification colposcopy due to Pap IIID2, IVa-p, IVa-g, IVb-p, IVb-g, V-p, V-g, V-e and V-x in DKG/DGG/AGO/AG-CPC/EFC	<b>10.8</b> In case of findings of the groups IIID2, IVa-p, IVa-g, IVb- p, IVb-g, V-p, V-g, V-e and V-x in the organized cytological screening, a colposcopic	Quality Objective: If possible, frequent clarification colposcopy for Pap IIID2, IVa-p, IVa-g, IVb-p, IVb-g, V-p, V-g, V-e and V-x in certified gynaecological
certified gynaecological dysplasia consultation /	clarification shall be performed.	dysplasia consultation / gynaecological dysplasia unit
gynaecological dysplasia unit	11.4 The colposcopy shall be	gynaecological dyspiasia unit
Denominator:	performed as a clarification	10.8 and 11.4: GCP
All patients with Pap IIID2, IVa- p, IVa-g, IVb-p, IVb-g, V-p, V-g,	colposcopy in a dysplasia consultation / dysplasia unit	
V-e and V-x	certified in accordance with the requirements of the DKG/DGG/AGO/AG-CPC/EFC.	

excision of the cervix uteri.

Quality indicator	Reference Recommendation	Evidence base/ further information
PrevZxCa 7: Preoperative clarif	ication colposcopy before excisio	on
Numerator: Patients with an excision in whom a clarification colposcopy was performed preoperatively	The representatives of the WG QI see a potential for improvement in the performance of the clarification colposcopy not only in the area of screening, but also in the	Quality Objective: Preoperative clarification colposcopy before excision as often as possible
Denominator: All patients who underwent	area of therapy in the clinical routine.	

#### PrevZxCa 8: Knife conization as excision procedure

Numerator:	14.1	Quality Objective: <10%
Pat. with excision by means of	Snare excision and laser	Knife conisation as an excision
knife conisation	excision shall be the methods	procedure as rarely as possible
	of choice for the treatment of	
Denominator:	squamous and glandular	$A, \oplus \ominus \ominus \ominus$
All patients who underwent	cervical intraepithelial	
excision of the cervix uteri	neoplasia.	

#### PrevZxCa 9: CIN 3 in the incision margin after excision

<b>Numerator:</b> Number of patients with CIN 3 in the incision margin	<b>14.13</b> R0 resection of CIN 3 shall be aimed for.	Quality Objective: rarely As rarely as possible CIN 3 in the incision margin after excision
<b>Denominator:</b> All patients with excision and histolog. Findings CIN 3		A, ⊕⊖⊖⊖

PrevZxCa 10: HPV test and cytology after therapy of a CIN 3

<b>Numerator:</b> Pat. with HPV test and cytology within 12 mo after therapy	<b>16.1</b> In the follow-up after therapy of a CIN/ ACIS a combined examination with HPV test and	Quality Objective: HPV test and cytology as often as possible within 12 months after treatment of CIN 3
<b>Denominator:</b> All patients 12 months after therapy (excision or ablation) of a first disease with CIN 3	cytology shall be performed.	A, ⊕⊕⊖⊖

## 31. Literature

- 1. Wittekind, C., TNM: Klassifikation maligner Tumoren. 2017: Wiley.
- 2. Wittekind, C., [2010 TNM system: on the 7th edition of TNM classification of malignant tumors]. Pathologe, 2010. **31**(5): p. 331-2.
- 3. Ychou, M., et al., *Perioperative chemotherapy compared with surgery alone for resectable gastroesophageal adenocarcinoma: an FNCLCC and FFCD multicenter phase III trial.* J Clin.Oncol., 2011. **29**(13): p. 1715-1721.
- 4. Cunningham, D., W. Allum, and S. Weeden, *Perioperative chemotherapy in operable gastric* and lower oesophageal cancer: a randomised, controlled trial of the UK NCRI Upper GI Clinical Studies Group (the MAGIC trial, ISRCTN 93793971) [abstract]. European.journal of cancer, 2003. 1: p. S18.
- 5. Kelsen, D.P., et al., *Chemotherapy followed by surgery compared with surgery alone for localized esophageal cancer*. N.Engl.J Med, 1998. **339**(27): p. 1979-1984.
- 6. Boonstra, J.J., et al., Chemotherapy followed by surgery versus surgery alone in patients with resectable oesophageal squamous cell carcinoma: long-term results of a randomized controlled trial. BMC.Cancer, 2011. 11: p. 181.
- 7. Allum, W.H., et al., Long-term results of a randomized trial of surgery with or without preoperative chemotherapy in esophageal cancer. J Clin.Oncol., 2009. **27**(30): p. 5062-5067.
- 8. Clark, P.I., *Medical Research Council (MRC) randomised phase III trial of surgery with or without pre-operative chemotherapy in resectable cancer of the oesophagus.* British.journal of cancer, 2000. **83**: p. 1.
- 9. Low, D.E., et al., International Consensus on Standardization of Data Collection for Complications Associated With Esophagectomy: Esophagectomy Complications Consensus Group (ECCG). Ann Surg, 2015.
- 10. Vlayen Joan, et al., *Quality indicators for the management of upper gastrointestinal cancer*, KCE, Editor. 2013.
- 11. De Schreye, R., et al., *Applying Quality Indicators For Administrative Databases To Evaluate End-Of-Life Care For Cancer Patients In Belgium.* Health Aff (Millwood), 2017. **36**(7): p. 1234-1243.
- 12. Wittekind, C. and H.-J. Mayer, eds. *TNM Klassifikation maligner Tumoren*. 7 ed. 2010, Wiley-VCH: Weinheim.
- Dindo, D., N. Demartines, and P.A. Clavien, *Classification of surgical complications: a new proposal with evaluation in a cohort of 6336 patients and results of a survey.* Ann Surg, 2004. 240(2): p. 205-213.
- 14. Barth, J. and P. Lannen, *Efficacy of communication skills training courses in oncology: a systematic review and meta-analysis.* Annals of Oncology: Official Journal of the European Society for Medical Oncology / ESMO, 2011. **22**(5): p. 1030-1040.
- 15. Choi, J., et al., *Comparison of endoscopic ultrasonography (EUS), positron emission tomography (PET), and computed tomography (CT) in the preoperative locoregional staging of resectable esophageal cancer.* Surg Endosc, 2010. **24**(6): p. 1380-6.
- 16. Flamen, P., et al., Utility of positron emission tomography for the staging of patients with potentially operable esophageal carcinoma. J Clin Oncol, 2000. **18**(18): p. 3202-10.
- 17. Downey, R.J., et al., Whole body 18FDG-PET and the response of esophageal cancer to induction therapy: results of a prospective trial. J Clin Oncol, 2003. **21**(3): p. 428-32.
- 18. Heeren, P.A., et al., *Detection of distant metastases in esophageal cancer with (18)F-FDG PET.* J Nucl Med, 2004. **45**(6): p. 980-7.