

# 1. Stages & Actors

# 1.1. Stages

Stage	Actors involved
A. CCCN entry	
B. Diagnosis	Anatomo-pathologist, Biologist, Case manager, Dietitian, Emergency caregiver, Emergency physician, Foundations, Gastroenterologist, General practitioner, Medical oncologist, Molecular geneticist/ oncology genetic counselling, Nurse specialized in oncology, Onco-geriatrician, Pathologist, Patient support groups, Psychologist, Radiologist/ Nuclear Medicine, Social worker, Stoma therapist, Surgeon
C. Treatment planning	Aesthetician, Anatomo-pathologist, Anesthetist, Case manager, Dietitian, Gastroenterologist, Medical oncologist, Nurse specialized in oncology, Onco-geriatrician, Pain specialist, Psychologist, Social worker, Stoma therapist, Surgeon
D. Treatment   end-of-life care	Anesthetist, Case manager, Dietitian, Foundations, Gastroenterologist, General practitioner, Hospital pharmacist, Medical oncologist, Nurse specialized in oncology, Onco-geriatrician, Oncology care team, Organ specialist doctor, Pain specialist, Palliative care nurse, Palliative care team, Patient support groups, Physiotherapist, Psychologist, Radiotherapist, Social worker, Socio-aesthetician, Specialist in palliative care, Specialist in post-oncology rehabilitation, Spiritual guidance, Stoma therapist, Surgeon, Volunteers, Work medicine
E. Supportive care	Dietitian, Pain specialist, Physiotherapist, Psychologist, Social worker, Socio-aesthetician, Spiritual guidance
F. Rehabilitation	Case manager, Dietitian, Foundations, Gastroenterologist, General practitioner, Medical oncologist, Nurse specialized in oncology, Onco-geriatrician, Patient support groups, Psychologist, Radiologist/ Nuclear Medicine, Social worker, Socio-aesthetician, Specialist in post-oncology rehabilitation, Stoma therapist, Surgeon, Work medicine
G. Follow-up	Anesthetist, Case manager, Dietitian, Foundations, Gastroenterologist, General practitioner, Medical oncologist, Nurse specialized in oncology, Onco-geriatrician, Organ specialist doctor, Patient support groups, Psychologist, Radiologist/ Nuclear Medicine, Social worker, Socio-aesthetician, Specialist in palliative care, Specialist in post-oncology rehabilitation, Stoma therapist, Surgeon, Work medicine
H. End of	

# 1.2. Actors

CCCN care

Actor	Stages involved
Aesthetician	C. Treatment planning
Anatomo-pathologist	B. Diagnosis, C. Treatment planning
Anesthetist	C. Treatment planning, D. Treatment   end-of-life care, G. Follow-up
Biologist	B. Diagnosis
Case manager	B. Diagnosis, C. Treatment planning, D. Treatment   end-of-life care, F. Rehabilitation, G. Follow-up
Dietitian	B. Diagnosis, C. Treatment planning, D. Treatment   end-of-life care, E. Supportive care, F. Rehabilitation, G. Follow-up
Emergency caregiver	B. Diagnosis
Emergency physician	B. Diagnosis
Foundations	B. Diagnosis, D. Treatment   end-of-life care, F. Rehabilitation, G. Follow-up
Gastroenterologist	B. Diagnosis, C. Treatment planning, D. Treatment   end-of-life care, F. Rehabilitation, G. Follow-up
General practitioner	B. Diagnosis, D. Treatment   end-of-life care, F. Rehabilitation, G. Follow-up
Hospital pharmacist	D. Treatment   end-of-life care
Medical oncologist	B. Diagnosis, C. Treatment planning, D. Treatment   end-of-life care, F. Rehabilitation, G. Follow-up
Molecular geneticist/ oncology genetic counselling	B. Diagnosis
Nurse specialized in oncology	B. Diagnosis, C. Treatment planning, D. Treatment   end-of-life care, F. Rehabilitation, G. Follow-up
Onco-geriatrician	B. Diagnosis, C. Treatment planning, D. Treatment   end-of-life care, F. Rehabilitation, G. Follow-up
Oncology care team	D. Treatment   end-of-life care
Organ specialist doctor	D. Treatment   end-of-life care, G. Follow-up
Pain specialist	C. Treatment planning, D. Treatment   end-of-life care, E. Supportive care
Palliative care nurse	D. Treatment   end-of-life care
Palliative care team	D. Treatment   end-of-life care
Pathologist	B. Diagnosis
Patient support groups	B. Diagnosis, D. Treatment   end-of-life care, F. Rehabilitation, G. Follow-up
Physiotherapist	D. Treatment   end-of-life care, E. Supportive care
Psychologist	B. Diagnosis, C. Treatment planning, D. Treatment   end-of-life care, E. Supportive care, F. Rehabilitation, G. Follow-up
Radiologist/ Nuclear Medicine	B. Diagnosis, F. Rehabilitation, G. Follow-up
Radiotherapist	D. Treatment   end-of-life care

Actor	Stages involved
Social worker	B. Diagnosis, C. Treatment planning, D. Treatment   end-of-life care, E. Supportive care, F. Rehabilitation, G. Follow-up
Socio-aesthetician	D. Treatment   end-of-life care, E. Supportive care, F. Rehabilitation, G. Follow-up
Specialist in palliative care	D. Treatment   end-of-life care, G. Follow-up
Specialist in post-oncology rehabilitation	D. Treatment   end-of-life care, F. Rehabilitation, G. Follow-up
Spiritual guidance	D. Treatment   end-of-life care, E. Supportive care
Stoma therapist	B. Diagnosis, C. Treatment planning, D. Treatment   end-of-life care, F. Rehabilitation, G. Follow-up
Surgeon	B. Diagnosis, C. Treatment planning, D. Treatment   end-of-life care, F. Rehabilitation, G. Follow-up
Volunteers	D. Treatment   end-of-life care
Work medicine	D. Treatment   end-of-life care, F. Rehabilitation, G. Follow-up

## 2. Quality Indicators

#### 2.1 Pre-therapeutic tumour board (#2a)

Name Pre-therapeutic tumour board (#2a)

Documentation iPAAC Indicator No. 6

Numerator Patients of the denominator presented at an interdisciplinary tumour board before

therapy

Denumerator "Elective" patients with rectal carcinoma and "elective" all patients with stage IV colon

carcinoma

#### 2.2 Additional iPAAC QIs No. 2, 4

Name Additional iPAAC QIs No. 2, 4

Documentation iPAAC QI No. 2: Preoperative abdominal and pelvic CT - colorectal cancer

iPAAC QI No. 4: CEA blood test - colon cancer

#### 2.3 Adjuvant chemotherapies: colon (UICC stage III) (#24)

Name Adjuvant chemotherapies: colon (UICC stage III) (#24)

Documentation iPAAC Indicator No. 25

Numerator Patients of the denominator who received adjuvant chemotherapy

Denumerator Patients <= 75 years with a UICC stage III colon carcinoma who had a R0 resection of

the primary tumour

#### 2.4 #9, #16-21, #26-28

Name #9, #16-21,

#26-28

Documentation #9: MMR assessment (iPAAC QI No. 5)

#16: Revision surgery: colon (iPAAC QI No. 9) #17: Revision Surgery: rectum (iPAAC QI No. 10) #18: Anastomotic insufficiency: colon (iPAAC QI No. 14)

#19: Anastomotic insufficiency: rectum (iPAAC QI No. 15)

#20: Post-operative mortality (iPAAC QI No. 16)

#21: Local R0 resections: rectum (iPAAC QI No. 12)

#26: Quality of the TME rectum specimen (information from pathology) (iPAAC QI No.

19)

#27: Diagnostic report after surgical resection of colorectal carcinoma (iPAAC QI No.

21)

#28: Lymph node examination (iPAAC QI No. 18)

#### 2.5 Additional iPAAC Qls No. 22, 23

Name Additional iPAAC Qls No. 22, 23

Documentation iPAAC QI No. 22: Neoadjuvant radiotherapy/radiochemotherapy stage II-III - rectal

cancer

iPAAC QI No. 23: Neoadjuvant radio-chemotherapy because of a threatened/involved

CRM on preoperative MRI - rectal cancer

#### 2.6 Surgical primary cases: colon (#14), rectum (#15)

Name Surgical primary cases: colon (#14), rectum (#15)

#### 2.7 Additional iPAAC QIs No. 11, 13, 20

Name Additional iPAAC QIs No. 11, 13, 20

Documentation iPAAC QI No. 11: Local R0 resections - colon cancer

iPAAC QI No. 13: Post-operative wound infection - colorectal cancer iPAAC QI No. 20: Distal tumor-free margin - colorectal cancer

#### 2.8 Start of adjuvant chemotherapy (#29)

Name Start of adjuvant chemotherapy (#29)

Documentation iPAAC Indicator No. 24

Numerator As often as possible start of adjuvant chemotherapy within the stipulated period

Denumerator Patients with UICC stage III colon carcinoma who had received adjuvant chemotherapy

(= numerator of indicator 24)

#### 2.9 Combination chemotherapy for metastasised CRC with systemic first-line treatment (#25)

Name Combination chemotherapy for metastasised CRC with systemic first-line treatment (#25)

Numerator Patients of the denominator with combination chemotherapy

Denumerator Patients with metastasised colorectal carcinoma, ECOG 0-1 and systemic first-line

chemotherapy

# 2.10 RAS and BRAF and MSI status determination at start of first-line treatment for metastasised CRC (#10)

Name RAS and BRAF and MSI status determination at start of first-line treatment for

metastasised CRC (#10)

Numerator Patients of the denominator with determination RAS (= KRAS and NRAS mutations) and

BRAF mutation at the start of first-line treatment

Denumerator Patients with metastasised colorectal carcinoma and first-line treatment

#### 2.11 Additional iPAAC QI No. 17

Name Additional iPAAC QI No. 17

Documentation iPAAC QI No. 17: Primary resection of liver metastases - colorectal cancer

#### 2.12 Marking of stoma position (#22)

Name Marking of stoma position (#22)

#### 2.13 MMR assessment (#9)

Name MMR assessment (#9)

Documentation iPAAC Indicator No. 5

Numerator Patients of the denominator with immunohisto-chemical assessment of mismatch repair

(MMR) proteins.

Denumerator Patients with initial colorectal carcinoma diagnosis < 50 years old

#### 2.14 Complete elective colonoscopies (#12)

Name Complete elective colonoscopies (#12)

Documentation iPAAC Indicator No. 3

Numerator Elective colonoscopies of the denominator which were completed

Denumerator Elective colonoscopies for each colonoscopy unit of the CrCC (not only CrCC patients)

(are counted: intention: complete colonoscopy)

#### 2.15 Complication rate therapeutic colonoscopies (#11)

Name Complication rate therapeutic colonoscopies (#11)

Numerator Colonoscopies of the denominator with complications (bleeding requiring re-intervention

(recolonoscopy, operation) or a transfusion and/or perforation)

Denumerator Therapeutic colonoscopies with loop polypectomy per colonoscopy unit (not only CrCC

patients)

#### 2.16 Information on distance to mesorectal fascia in the diagnostic report (#13)

Name Information on distance to mesorectal fascia in the diagnostic report (#13)

Documentation iPAAC Indicator No. 1

Numerator Patients of the denominator with information on distance to mesorectal fascia in the

diagnostic report

Denumerator Patients with rectal carcinoma of the middle and lower third and MRI or thin slice CT of

the pelvis

#### 2.17 Recorded family history (#7)

Name Recorded family history (#7)

Numerator Primary-case patients in the denominator with a completed patient questionnaire

Denumerator Total primary cases

#### 2.18 Genetic counselling (#8)

Name Genetic counselling (#8)

Numerator Primary-case patients of the denominator advised to seek genetic counselling

Denumerator Primary cases with a positive patient questionnaire

#### 2.19 Genetic counselling (#8)

Name Genetic counselling (#8)

Numerator Primary-case patients of the denominator advised to seek genetic counselling

Denumerator Primary cases with a positive patient questionnaire

#### 2.20 Pre-therapeutic tumour board: recurrences/meta-chronous metastases (#2b)

Name Pre-therapeutic tumour board: recurrences/meta-chronous metastases (#2b)

Documentation iPAAC Indicator No. 7

Numerator Patients of the denominator presented at the pre-therapeutic tumour board

Denumerator Patients with new recurrence and/or distant metastases

(= Indicator #1)

#### 2.21 Recorded family history (#7)

Name Recorded family history (#7)

Numerator Primary-case patients in the denominator with a completed patient questionnaire

Denumerator Total primary cases

#### 2.22 Share of study patients (#6)

Name Share of study patients (#6)

Numerator Patients of the CrCC included in a study or colorectal prevention study

Denumerator Total primary cases

# 2.23 Psycho-oncological care (Consultation >= 25 min.) (#4)

Name Psycho-oncological care

(Consultation >= 25 min.) (#4)

Numerator Patients of the denominator who received psycho-oncological care in an inpatient or

outpatient setting (duration of consultation >= 25 min)

Denumerator Total primary cases + patients with new recurrence and/or metastases (= Indicator 1)

#### 2.24 Social services counselling (#5)

Name Social services counselling (#5)

Numerator Patients of the denominator who received counselling by social services in an inpatient or

outpatient setting

Denumerator Total primary cases + patients with new recurrence and/or metastases (= Indicator 1)

#### 2.25 Additional iPAAC QI No. 26

Name Additional iPAAC QI No. 26

Documentation iPAAC QI No. 26: Liver CT or US evaluation within 12 months - colorectal cancer

## 2.26 Patients with new recurrence and/or distant metastases (#1)

Name Patients with new recurrence and/or distant metastases (#1)

Text Patients with new recurrence and/or distant metastases

### 2.27 Post-operative presentation of all primary-case patients (#3)

Name	Post-operative presentation of all primary-case patients (#3)
Documentation	iPAAC Indicator No. 8
Numerator	Primary cases of the denominator presented at the post-operative tumour board
Denumerator	Surgical and endoscopic primary cases

### 3. References

[1] Certification criteria of the Deutsche Krebsgesellschaft (DKG) (https://www.onkozert.de/en/organ/colorectal/)

- [2] The national concept of Multidisciplinary Tumour Boards (MDT) (https://plancancer.files.wordpress.com/2016/05/concept-rcp-signc3a9-ministre-2016-05-13.pdf)
- [3] The recommendations of the INC on the composition and organization of MTB.
- [4] To be precised further in line with the national recommendations to be put in place
- [5] National guideline for colorectal cancer
- [6] iPAAC Standard for Colorectal and Pancreatic Cancer Care Networks (https://www.ipaac.eu/res/file/outputs/wp10/cccn-standard-colorectal-pancreatic-cancer.pdf)

