

## The Colorectal Carcinoma – Treatment Research and Treatment Reality in Oncology Practices (Anti-VEGF or Anti-EGFR Therapies)

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### Approach

For the palliative therapy of the colorectal carcinoma there are potent drugs available such as the cytostatics 5-FU, irinotecan, oxaliplatin and capecitabine. In 01/2005, the monoclonal antibody bevacizumab was approved, cetuximab in 06/2004, panitumumab in 12/2007 and afiblerecept in 02/2013. How are these substances applied in everyday life and which are the results of the therapy, in particular with regard to metastases resection?

### Methodology

Since 2003, 124 oncology practices from all federal states of Germany have been documenting 9,490 disease histories of patients with a colorectal carcinoma (CRC) as part of the Project team of Internal Oncology (PIO). 8,932 cases thereof with a total of 20,272 therapies were analyzed in the registry ONCOR (as of 09/05/2016).

### Results

Gender: 5,399 (60.4%) m; 3,533 (39.6%) f

UICC: 3,357 (37.6%) patients were in a metastasized stage initially (fig. 1). Metastases were detected during the course of the disease in additional 2,561 (28.7%) patients.

Surgery of primary tumor: n = 8,298 (92.9%), including 7,181 (86.5%) R0 resection

KRAS (n=2,648): 1,689 (63.8%) wild type; 959 (36.2%) mutated

NRAS (n= 298): 251 (84.2%) wild type; 7 (15.8%) mutated

### Palliative therapies (n = 14,707):

5,836 of the patients received a 1st-line chemotherapy, 3,940 (67.5%) of them a 2nd-line and 2,186 (37.5%) a 3rd-line therapy. Bevacizumab was mainly applied as 1st-line therapy, afiblerecept and cetuximab as 2nd-line and panitumumab as 3rd-line therapy (fig. 2+3).

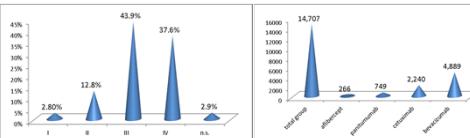


Fig. 1: UICC stages

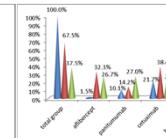


Fig. 2: Number of palliative therapies per patient

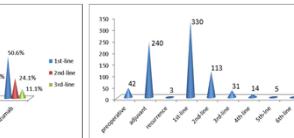


Fig. 3: Palliative therapies per line

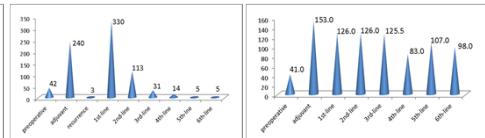


Fig. 4: Metastases resections (during or after palliative therapy)

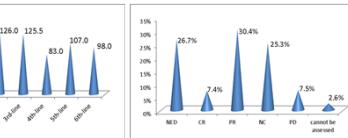


Fig. 5: Secondary metastases resections

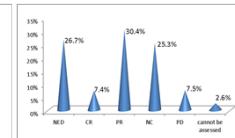


Fig. 6: Metastases treatments

1,360 (23.0%) patients underwent a metastases resection, 160 (2.7%) an interventional metastases treatment (fig. 4-6). 95 practices (80.5%) initiated a metastases resection. Their rate was between 6.6 und 39.2% in oncology practices with more than 50 analyzed patients.

A secondary metastases resection was performed mainly during or after a 1st-line therapy (fig. 7). Its median duration was 126 days (fig. 8). Also patients with a progressive disease were brought to a metastases resection.

Fig. 7: Therapy before metastases resection

Fig. 8: Duration of therapy (days) before metastases resection

Fig. 9: Success of therapy before metastases resection

RFA – Radiofrequency ablation  
TACE – Transarterial chemoembolization  
SIRT – Selective Internal Radiation Therapy

NED – No evidence of disease  
CR – complete remission  
PR – partial remission

NC – No change  
PD – progressive disease

### Survival

The median progression-free survival is at 9.9 or 6.4 months for the 1st or 2nd-line therapy, the median overall survival is at 25.1 or 15.3 months. Fig. 10 shows the registry data in comparison to published studies.

The median overall survival as from the start of distant metastasis is at 28.3 months and prolonged to 54.6 months after a secondary metastases resection (fig. 11+12).

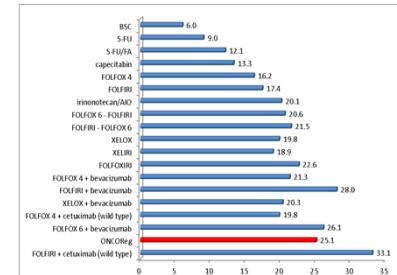


Fig. 10: Overall survival as from start of 1st-line therapy

Overall survival since first metastasis

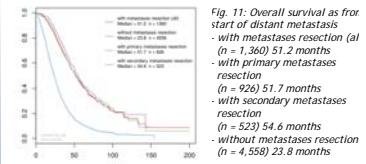


Fig. 11: Overall survival as from start of distant metastasis  
without metastases resection  
with 1st-line metastases resection (al)  
with 2nd-line metastases resection  
with primary metastases resection  
with 2nd-line metastases resection  
with secondary metastases resection  
without metastases resection  
(n = 926) 51.7 months  
with 1st-line metastases resection  
(n = 160) 23.8 months

Overall survival with secondary metastases resection

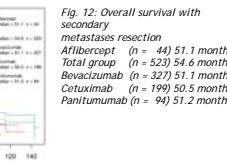


Fig. 12: Overall survival with secondary metastases resection  
without metastases resection  
with 1st-line metastases resection  
with 2nd-line metastases resection  
with primary metastases resection  
with 2nd-line metastases resection  
with secondary metastases resection  
(n = 94) 51.2 months  
with 1st-line metastases resection  
(n = 227) 51.1 months  
Bevacizumab (n = 227) 51.1 months  
Cetuximab (n = 199) 50.5 months  
Panitumumab (n = 94) 51.2 months

### Conclusion

The treated treatment of CRC in the practices is reflected by the median overall survival of 25.1 months from the start of the 1st-line therapy. Existing distant metastases were resected in 23% of the cases which led to a prolongation of the overall survival as from the start of distant metastasis from 23.8 to 51.2 months.

9% of the patients underwent a secondary resection (during or after palliative therapy). Their median survival is at 54.6 months. The collection of data and its analysis will be continued.

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