Understanding BRAF-Mutant Metastatic Colorectal Cancer (mCRC)

Colorectal Cancer (CRC) at a Glance

CRC is...

3 most common cancer¹





per year of CRC²



with CRC present with metastases at initial diagnoses³



of all people with earlier-stage CRC will eventually develop metastases⁴

Mutations in mCRC



A variety of gene mutations can lead to metastatic colorectal cancer (mCRC), including *KRAS*, *NRAS* and *BRAF* 5



Approximately 8–12% of patients with mCRC exhibit a *BRAF* mutation⁶⁻¹³



RAS and **BRAF** mutations tend to be almost mutually exclusive (so rarely occur together in the same tumour)⁴

V600E is the most common **BRAF** mutation¹⁴

The Unmet Need

People with *BRAF*-mutant mCRC generally have a poor prognosis with currently available regimens^{4,15-17}



Outcomes in people with *BRAF*-mutant mCRC in later lines of therapy are approximately^{12,18,19}



There are currently no specific approved treatments in Europe for *BRAF*-mutant mCRC⁴





Knowing *RAS* and *BRAF* mutation status enables optimal diagnostic and prognostic decision-making, ESMO Guidelines recommend that all patients with mCRC should be tested at diagnosis⁴



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References

- 1. The Global Cancer Observatory, 2018. International Agency for Research on Cancer, World Health Organization. Available at: https://gco.iarc. fr/today/online-analysis-multi-bars. Accessed September 2019.
- 2. Gunter MJ, et al. Ann Oncol. 2019;doi: 10.1093/annonc/mdz044.
- 3. Van Cutsem E, et al. Ann Oncol. 2009;20(Suppl 4):61–3.
- 4. Van Cutsem E, et al. Ann Oncol. 2016;27:1386-422.
- 5. Modest DP, et al. Ann Oncol. 2016;27(9):1746-53.
- 6. Maughan TS, et al. Lancet. 2011;377:2103–14.
- 7. Souglakos J, et al. Br J Cancer. 2009;101:465-72.
- 8. Richman SD, et al. J Clin Oncol. 2009;27:5931–7.
- 9. Tran B, et al. Cancer. 2011;117:4623-32.
- 10. Yokota T, et al. Br J Cancer. 2011;104:856-62.
- 11. Tie J, et al. Int J Cancer. 2011;128:2075-84.
- 12. Loupakis F, et al. Br J Cancer. 2009;101:715-21.
- 13. Tveit KM, et al. J Clin Oncol. 2012;30(15):1755-62.
- 14. Sclafani F, et al. Crit Rev Oncol Hematol. 2013;87(1):55-68.
- 15. Ursem C, et al. Gastrointest Cancer. 2018;8:13-23.
- 16. NCCN Clinical Practice Guidelines in Oncology for Colon Cancer. Version 2.2019. National Comprehensive Cancer Network.
- 17. NCCN Clinical Practice Guidelines in Oncology for Rectal Cancer. Version 2.2019. National Comprehensive Cancer Network.
- 18. De Roock W, et al. Lancet Oncol. 2010;11(8):753-762.
- 19. Clinicaltrials.gov. US National Library of Medicine. S1406 phase II study of irinotecan and cetuximab with or without vemurafenib in BRAF mutant metastatic colorectal cancer. https://clinicaltrials.gov/ct2/show/results/NCT02164916. Accessed September 2019.

