memo (2022) 15:1-2 https://doi.org/10.1007/s12254-022-00794-w





Innovative strategies in gastrointestinal cancer

Gerald Prager

Accepted: 7 January 2022 © The Author(s), under exclusive licence to Springer-Verlag GmbH Austria, part of Springer Nature 2022

Dear reader,

A series of clinical trials have addressed the impact and the efficacy of precision medicine (PM) in patients with gastrointestinal (GI) cancer. PM defines the molecular or immunohistochemical detection of a druggable target in malignant tissue and the subsequent application of a certain pharmacologic compound which—based upon its mode of action—could be expected to modify the course of the underlying disorder by interfering with a decisive signal the cell uses for sustained growth, proliferation and spread. Beside drugs which directly interfere with the tumor cell biology, interference with the tumor microenvironment and immunological response are the focus of recent treatment concepts.

As tumor biology varies widely and impressive heterogeneity resulting in a treatment-induced Darwinian clone selection has been widely accepted, the proof of an efficacy of particularly molecularly targeted treatment very much depends on the trial design, patient selection, disease stage, pretreatment and, finally, the choice of the particular pathway to be studied. While certain tumor types such as cholangiocarinoma harbor a variety of potential druggable targets such as IDH-1, BRAF, FGFR-fusions and others, other tumor types such as pancreatic cancer faces challenges to target the pathognomonic RAS

This special issue of MEMO on "Innovative strategies in gastrointestinal cancer" is a comprehensive up-

Assoc.-Prof. PD Dr. G. Prager (⋈) Clinical Division of Oncology, Department of Medicine I, Medical University of Vienna, Währinger Gürtel 18-20, 1090 Vienna, Austria gerald.prager@meduniwien.ac.at

date of the leading edge of treatment approaches in gastrointestinal oncology.

Ercan Müldür and Wolfgang Hilbe present and discuss five emerging studies which have changed standard of care in esophageal cancer [1]. The manuscript of Aysegül Ilhan-Mutlu and Hannah C. Puhr gives a concise overview of new therapeutic options in gastric cancer and recently approved strategies as well as ongoing studies [2]. Monika Lenzi and Thomas Winder discuss the relevance of immunotherapy in GI malignancies and provide a perspective on promising upcoming treatment strategies [3]. Johannes Schöche and Dora Niedersüß-Beke write about colorectal cancer treatments like KRAS G12C inhibitors combined with anti-EGFR antibodies which are currently under investigation in clinical trials [4]. The manuscript of Konstantin Schlick discusses treatments of pancreatic cancer like neo-adjuvant chemotherapy which is not endorsed in clinical guidelines, due to the lack of randomised phase III trials. He points out that further research is needed to establish predictive biomarkers, measures of therapeutic response, and multidisciplinary strategies to improve patient-centered outcomes [5]. Iveta Urban et al. who write about hepatocuellar carcinoma are sure that early diagnosis and definitive treatment remain key to long-term outcome and surgery continues to be the core treatment for patients with resectable disease and normal liver function [6]. Finally, Metwally et al. present an interesting report on colorectal cancer metastases to the thyroid gland [7].

Conflict of interest G. Prager participated in Advisory Roles/ Symposiums from: Merck Serono, BMS, Roche, Amgen, Sanofi, Lilly, Servier, Taiho, Bayer, Halozyme, MSD, Celgene, Pierre Fabre, Incyte.



References

- 1. Müldür E, Hilbe W. Practice changing strategies in the treatment of esophageal cancer. memo. 2021; https://doi. org/10.1007/s12254-021-00779-1.
- 2. Ilhan-Mutlu A, Puhr HC. Innovative strategies in metastatic gastric cancer: a short review. memo. 2021; https://doi.org/ 10.1007/s12254-021-00762-w.
- 3. Lenzi M, Winder T. Immunotherapy—another breakthrough in gastrointestinal malignancies. 2021;15(1); https://doi.org/10.1007/s12254-021-00785-
- 4. Schöche J, Niedersüß-Beke D. Treatment decision based on molecular profiling in metastatic colorectal cancer with a focus on RAS pathway mutations. memo. 2021; https:// doi.org/10.1007/s12254-021-00787-1.
- 5. Schlick K. Neoadjuvant versus adjuvant management of resectable pancreas cancer: a review of the literature. memo. 2021; https://doi.org/10.1007/s12254-021-00745-
- 6. Urban I, Primavesi F, Bogner K, Bartsch C, Trattner M, Schmid A, Stättner S. Hepatocellular carcinoma—neoadju-

- vant systemic and local treatment concepts to improve resectability rates and oncological outcome. memo. 2021; https://doi.org/10.1007/s12254-021-00791-5.
- 7. Metwally IH, Elnahas W, Elkashef W. Thyroid metastasectomy for deposits from colorectal cancer; a case report and non-systematic review. memo. 2021; https://doi.org/10. 1007/s12254-021-00717-1.

Publisher's Note Springer Nature remains neutral with regard to jurisdictional claims in published maps and institutional affiliations.



► For latest news from international oncology congresses see: http://www.springermedizin.at/ memo-inoncology