

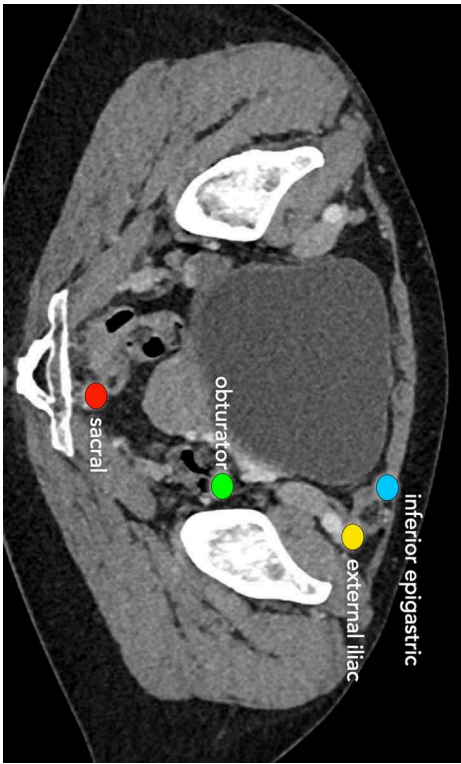
Title: Immunotherapy and Targeted Therapy Combinations in MSI-H/dMMR Endometrial Carcinoma



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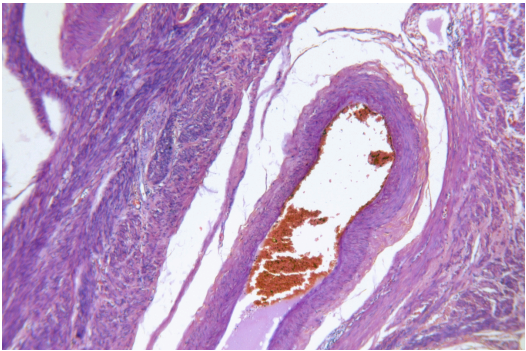
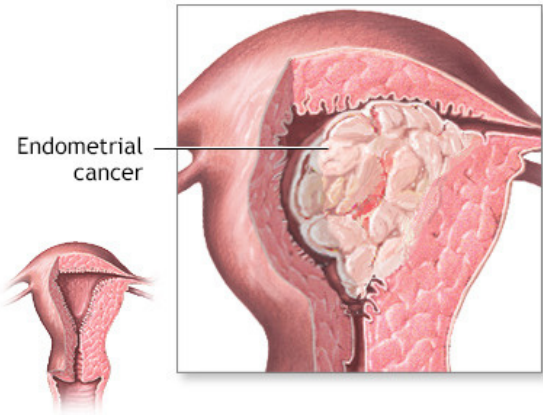
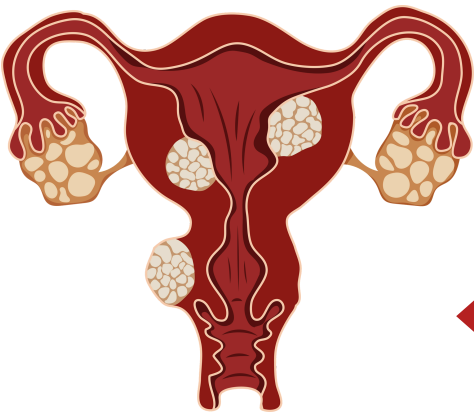
BACKGROUND

Microsatellite instability-high (MSI-H) and mismatch repair-deficient (dMMR) endometrial carcinoma (EC) represent a molecularly distinct subset with high immunotherapy response rates. Combining checkpoint inhibitors with targeted therapies is revolutionizing treatment for advanced and recurrent EC, addressing resistance and improving survival.



RESULTS

The GARNET trial (2021, 2024 update) showed dostarlimab achieved 43% objective response rate (ORR) in MSI-H EC, with 12-month PFS of 40%. The DUO-E trial (2023) reported durvalimab plus chemotherapy and olaparib maintenance extended PFS (15.1 vs. 9.6 months) in dMMR advanced EC. A 2024 real-world study (EC-MOLECULAR registry) confirmed 50% ORR with pembrolizumab plus lenvatinib in recurrent MSI-H EC, with fatigue (15%) manageable. The ATEND trial (2023) showed atezolizumab plus chemotherapy improved OS by 6.2 months in dMMR EC. Novel VEGF inhibitors with anti-PD-1 therapy yielded 35% ORR in early trials.



METHODOLOGY

We reviewed 2020-2025 literature from PubMed, ESMO, and SGO databases, focusing on phase II/III trials and real-world studies of immunotherapy-targeted therapy combinations in MSI-H/dMMR EC. Studies reporting overall survival (OS), progression-free survival (PFS), and adverse events were prioritized.



CONCLUSION

Immunotherapy-targeted therapy combinations are transforming MSI-H/dMMR EC management, offering unprecedented survival benefits. Routine molecular testing and expanded trials are vital to optimize these regimens and personalize care.