

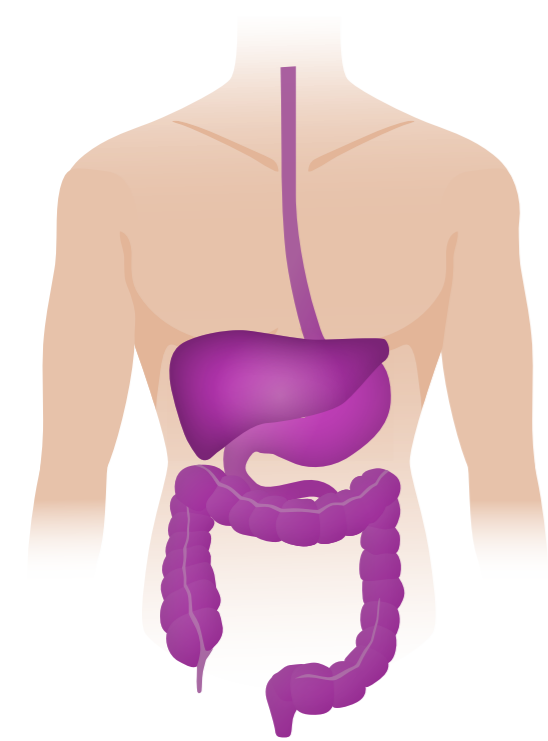
Benefit of Dual Immunotherapy in GI Cancers

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Immunotherapy in GI Cancers

Immunotherapy with standard PD(L)-1 or CTLA-4 ICIs has transformed the treatment of melanoma and NSCLC. However, until recently, this approach has shown limited benefit in GI cancer.¹



Recent and ongoing studies demonstrate the benefit of dual immunotherapy combination therapy compared with conventional therapy in GI cancers, including CRC and HCC.²⁻⁸

Abbreviations

chemo: chemotherapy; CI: confidence interval; CR: complete response; CRC: colorectal cancer; ctDNA: circulating tumor DNA; CTLA: cytotoxic T lymphocyte-associated antigen-4; dMMR: deficient DNA mismatch repair; GI: gastrointestinal; HCC: hepatocellular carcinoma; HR: hazard ratio; ICI: immune checkpoint inhibitor; IPI: ipilimumab; LEN: lenvatinib; mCRC: metastatic colorectal cancer; mo: months; MRD: minimal residual disease; MSI-H: microsatellite instability-high; NE: not evaluable; NIVO: nivolumab; NR: not reported; NSCLC: non-small cell lung cancer; OS: overall survival; PD(L): programmed cell death protein (ligand) 1; PFS: progression-free survival; Q3W: once every 3 weeks; Q4W: once every 4 weeks; SOR: sorafenib; TRAE: treatment-related adverse event.

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CRC: CheckMate 8HW (NCT04008030)

Randomised Phase III study: NIVO + IPI versus NIVO or chemo in MSI-H/dMMR mCRC.^{2,3}

79%

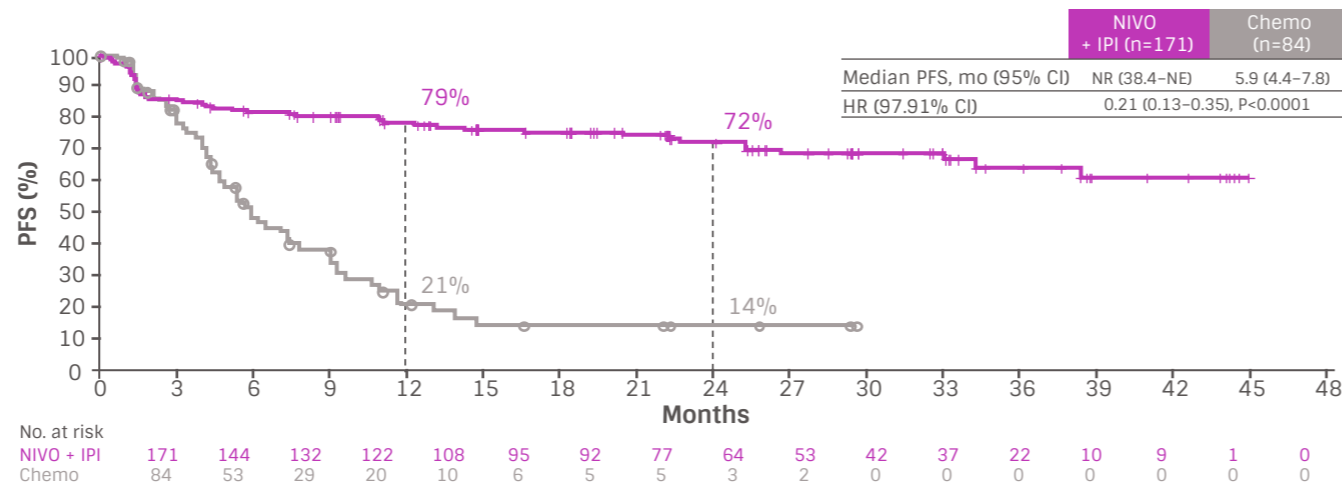
NIVO + IPI showed a **79% reduction** in risk of disease progression or death (**median follow-up: 31.5 months**).^{2,3}

PFS benefit with NIVO + IPI was seen across all prespecified patient subgroups, including *KRAS* or *NRAS* mutations, and liver, lung, or peritoneal metastases.^{2,3}

Overall safety profile favoured NIVO + IPI: Patients receiving NIVO + IPI had fewer Grade 3-4 TRAEs **23%** versus **48%** for chemotherapy.^{2,3}

PFS in the centrally confirmed population (median follow-up: 31.5 months)²

Clinically meaningful and statistically significant improvement in PFS (NIVO + IPI versus chemo)



Previously untreated patients were randomised 2:2:1 to NIVO (240 mg) + IPI (1 mg/kg) Q3W (four doses, then NIVO 480 mg Q4W), NIVO (240 mg) Q2W (six doses, then NIVO 480 mg Q4W), or chemo ± targeted therapies; treatments continued until disease progression or unacceptable toxicity, or a maximum of 2 years (NIVO ± IPI arms).

CRC: NICHE-2 (NCT03026140)

Single-group Phase II study: Neoadjuvant NIVO + IPI in nonmetastatic, locally advanced, previously untreated dMMR colon cancer.^{4,5}

Unprecedented 3-year disease-free survival of 100% (**median follow-up: 36.6 months**).⁴

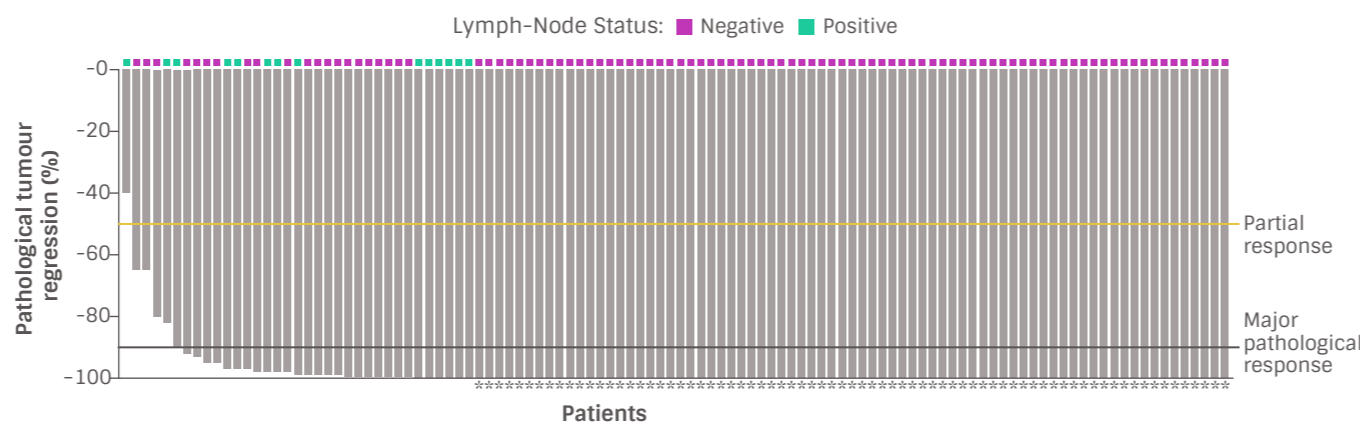
All patients were ctDNA negative at MRD timepoint (3 weeks after surgery).⁴

68%

Pathologic response was observed in 98% of 111 patients in efficacy analysis, with a major pathologic response (≤10% residual viable tumour) in 95% and a complete pathologic response in **68% of patients**.^{4,5}

Neoadjuvant NIVO + IPI had an acceptable safety profile.⁵

Pathological response⁵ Pathological response in 98% of patients after 4 weeks of treatment.



*Patients with a pathological CR in both the primary tumour and the lymph nodes. Black line: threshold for major pathological response (≥90% tumour regression). Yellow line: threshold for partial response (≥50% regression).

HCC: CheckMate 9DW (NCT04039607)

Open-label, randomised Phase III study: NIVO + IPI versus LEN or SOR as first-line therapy for patients with unresectable HCC. >85% LEN was used,^{6,7} compared to competitors who used SOR only.

Longer median OS and long-term survival benefit with **higher OS rates at 24 and 36 months** for NIVO + IPI versus LEN or SOR.⁷

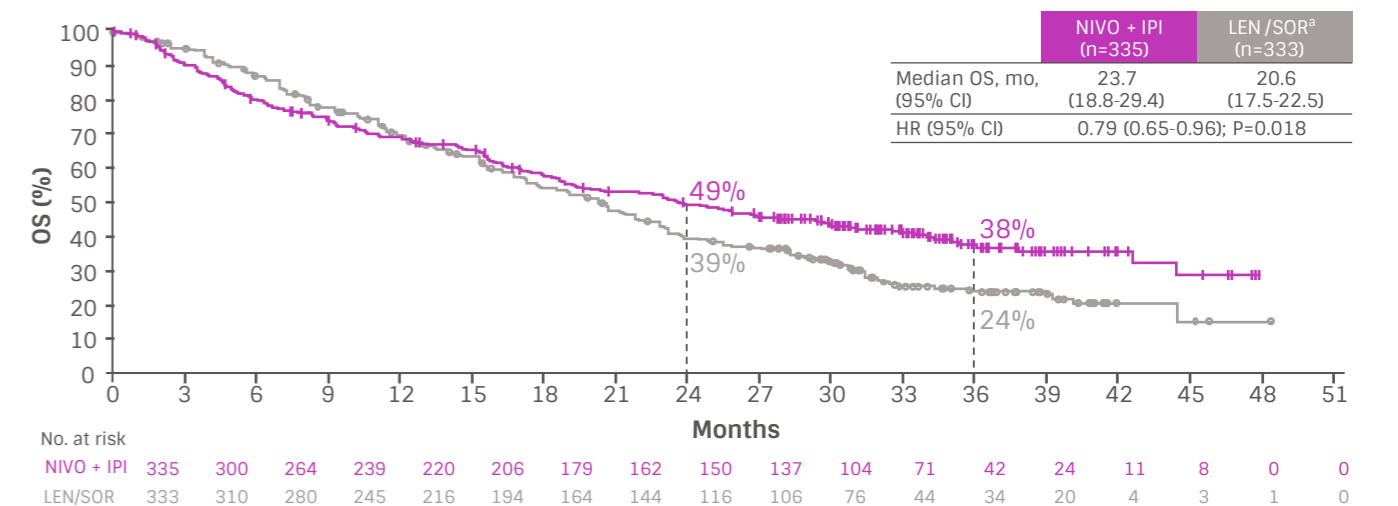
The safety profile of NIVO + IPI was manageable and consistent with the established safety profile of the regimen.⁶

Numerically higher PFS rates with NIVO + IPI versus LEN/SOR at:⁷
34% versus **18%** at 18 months
28% versus **12%** at 24 months

The benefit of NIVO + IPI was consistent in all regions, including Asia, North America/Europe, and the rest of the world.⁷

OS (median follow-up: 35.2 months)⁸

Statistically significant and clinically meaningful OS benefit (NIVO + IPI versus LEN/SOR)⁸



OS by region⁷

North America & Europe (n=289)
NIVO + IPI: 22.9
LEN/SOR: 19.8
Unstratified HR: 0.83

Rest of world (n=99)
NIVO + IPI: 18.8
LEN/SOR: 12.4
Unstratified HR: 0.67

Asia (n=280)
NIVO + IPI: 34.0
LEN/SOR: 22.5
Unstratified HR: 0.75

Key Takeaways



Results of CheckMate 8HW, NICHE-2, and CheckMate 9DW demonstrate the benefit of combination immunotherapy in CRC and HCC.²⁻⁸



CheckMate 8HW and CheckMate 9DW support first-line use of NIVO + IPI as a standard-of-care option for patients with MSI-H/dMMR mCRC and unresectable HCC.^{3,7}