

OPDIVO: The first and only adjuvant immuno-oncology (I-O) treatment that reduces the risk of recurrence or death for all high-risk patients with MIUC whose tumors express PD-L1 TC $\geq 1\%$ ¹



DFS benefit was achieved regardless of prior neoadjuvant chemotherapy, cisplatin eligibility, or nodal involvement in patients whose tumors express PD-L1 TC $\geq 1\%$ ¹

DFS= Disease-free survival; MIUC= muscle-invasive urothelial carcinoma; PD-L1= programmed death ligand 1; TC=tumor cell.

OPDIVO: the first and only adjuvant immunotherapy treatment in MIUC proven to reduce the risk of recurrence or death in patients whose tumors express PDL-L1 TC $\geq 1\%$

Despite curative efforts, lack of proven effective & tolerable options post radical resection means **approximately 50% OF PATIENTS with muscle-invasive urothelial carcinoma (MIUC) EXPERIENCE DISEASE RECURRENCE²⁻⁵**

Checkmate 274: the first and only phase 3, placebo-controlled, adjuvant trial in patients with UC to demonstrate a DFS benefit¹

Checkmate 274

OPDIVO as post-surgical adjuvant therapy for high-risk MIUC

Study design schematic*

Patients with high-risk muscle invasive urothelial carcinoma at radical resection:

- Those who received neoadjuvant cisplatin must be ypT2-T4a or ypN+
- Those who have not received neoadjuvant cisplatin must be pT3-pT4a or pN+ and ineligible for or refusing adjuvant cisplatin chemotherapy

Stratified by:

- PD-L1 status
- Prior neoadjuvant chemotherapy
- Nodal status

Randomize 1:1 within 120 days post surgery to adjuvant therapy

Placebo
N=709
Nivolumab
240 mg IV
q2w

Treat until toxicity, disease recurrence or withdrawal of consent for maximum of 1 year

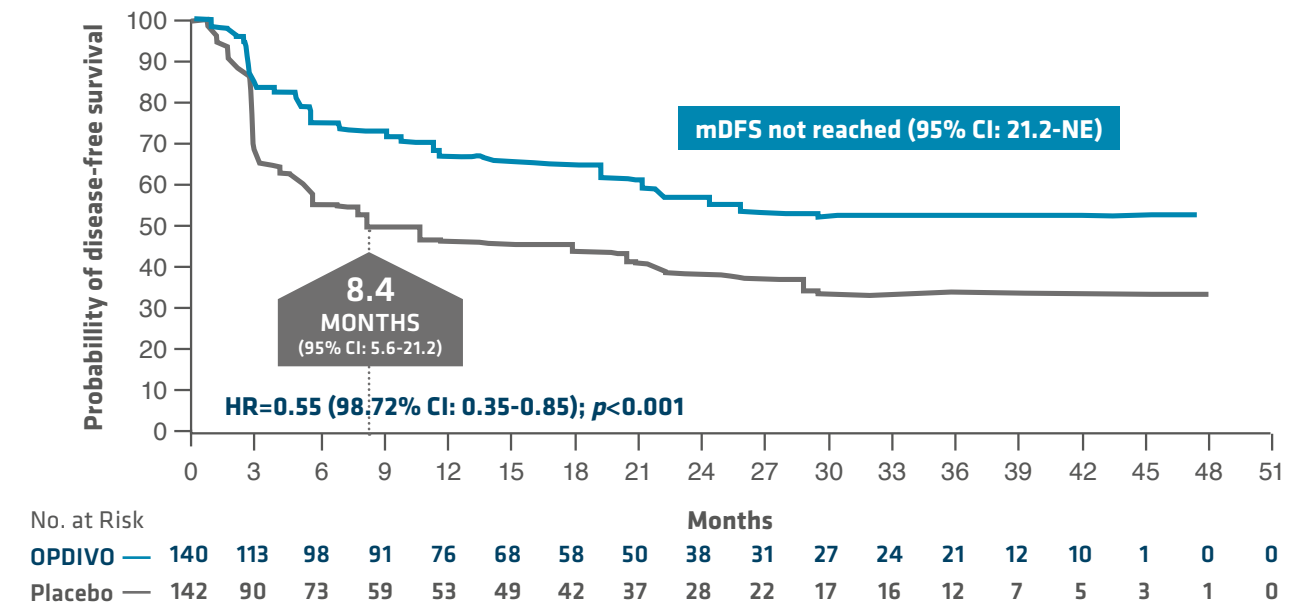
Endpoints:

Primary: DFS in all randomized and PD-L1 expression $\geq 1\%$
Key secondary: OS in all randomized and PD-L1 expression $\geq 1\%$

* Note that per Revised Protocol 04, there is no longer a cap on the number of subjects with PD-L1 expression $< 1\%$.
IV=intravenous, OS=overall survival, PD-L1=programmed death ligand 1; PFS=progressive-free survival; q2w=every 2 weeks.

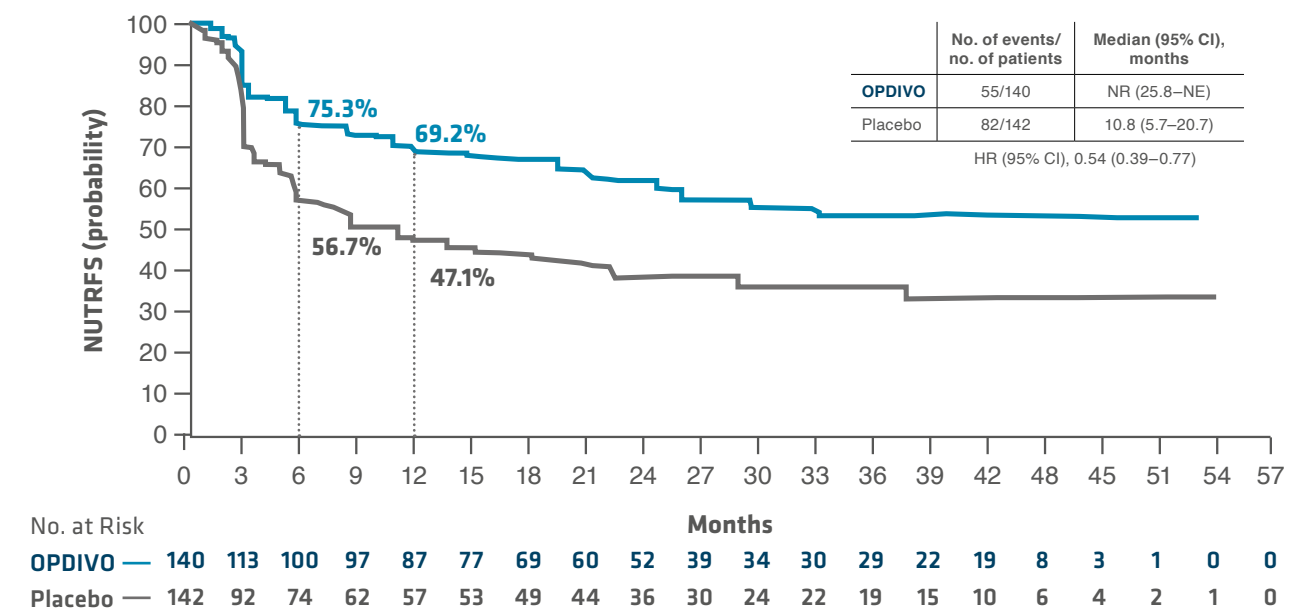
**Median DFS not reached with OPDIVO:
The risk of recurrence is reduced by 45%¹**

Disease-free survival in patients with PD-L1 TC $\geq 1\%$



DMFS improved with OPDIVO vs Placebo

Tumor PD-L1 $\geq 1\%$ population



Galsky et al. CM274. Adjuvant NIVO in high-risk muscle-invasive urothelial carcinoma. AUA2022. Oral

Minimum follow-up time of 6.3 months. Median follow-up time of 22.1 months for OPDIVO and 18.7 months for placebo. CI=confidence interval; DFS=disease-free survival; HR=hazard ratio; ITT=intent to treat; MIUC=muscle-invasive urothelial carcinoma.

OPDIVO: the first and only adjuvant immunotherapy treatment in MIUC proven to reduce the risk of recurrence or death in patients whose tumors express PD-L1 TC $\geq 1\%$

Who should be considered for adjuvant treatment with OPDIVO ?¹

After radical resection, OPDIVO is for ALL patients with MIUC AT HIGH RISK OF RECURRENCE...

... whose TUMORS EXPRESS PD-L1 TC $\geq 1\%$

Urologist needs to request PD-L1 TC $\geq 1\%$ testing routinely from pathologists after radical resection for patient's discussion during MOC

	T2	T3	T4
... ALL ypT2	✓	✓	✓
OR			
... ALL pT3-4a	--	✓	✓
OR			
... ALL N+*	✓	✓	✓

ALL PD-L1 TC $\geq 1\%$

Diagnosis & Treatment plan



Radical Surgery



Staging and PD-L1 testing

Post Surgery Plan

There is a -40% prevalence of PD-L1 TC $\geq 1\%$ in MIUC tumor tissue samples

Key considerations

- y- designates staging after therapy (in this context, after neoadjuvant chemotherapy)
- p- designates pathologic staging at the time of surgery

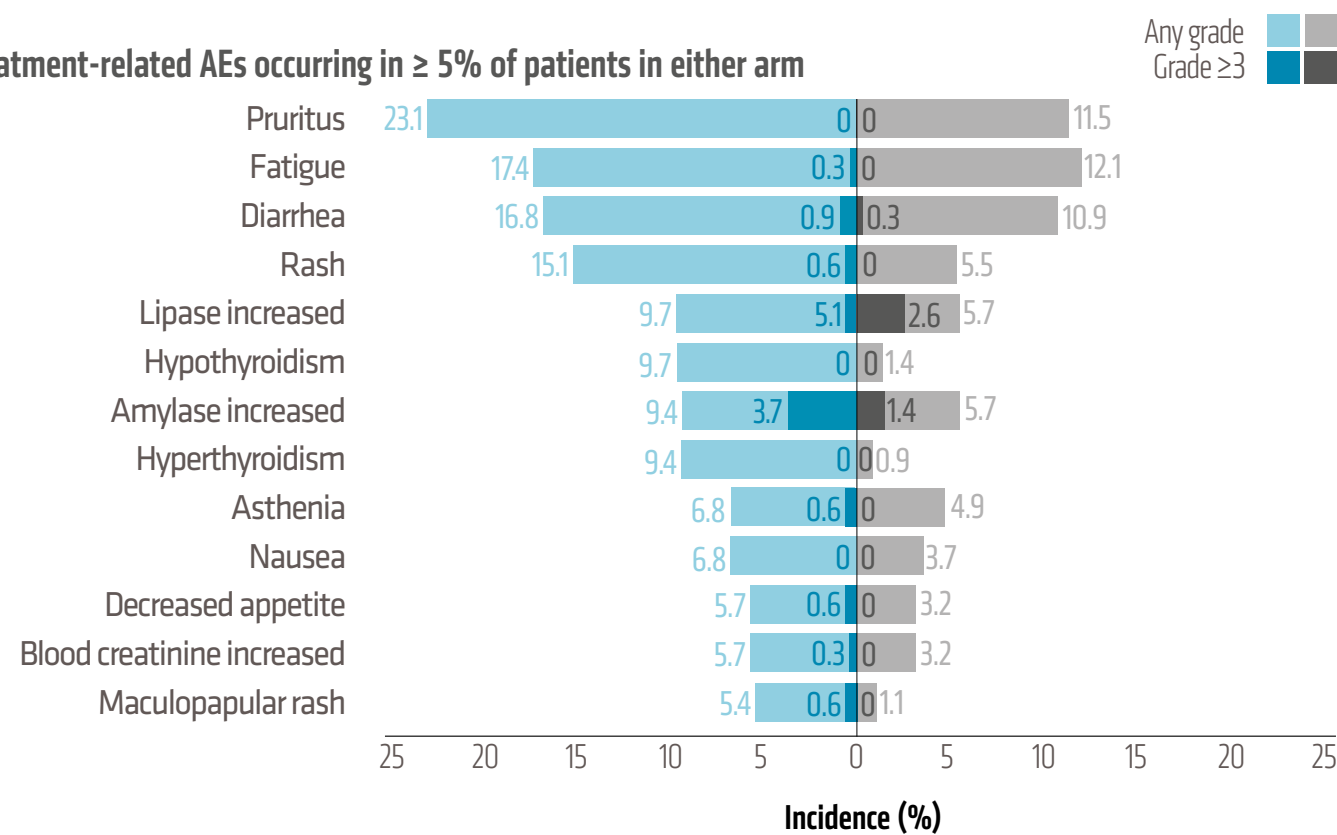
If patient ...	Tumor stage must be ...
Received neoadjuvant chemotherapy	ypT2-ypT4a or ypN+
Did not receive neoadjuvant chemotherapy	pT3-pT4a or pN+

*Lymph-node positive covers all stages: T1+.

Opdivo has a manageable safety profile¹

Events, %	OPDIVO (n=351)*		Placebo (n=348)*	
	Any grade (%)	Grade ≥3 (%)	Any grade (%)	Grade ≥3 (%)
Any-cause AEs	98.9	42.7	95.4	36.8
Treatment-related AEs†	77.5	17.9	55.5	7.2
Treatment-related AEs leading to discontinuation	12.8	7.1	2.0	1.4

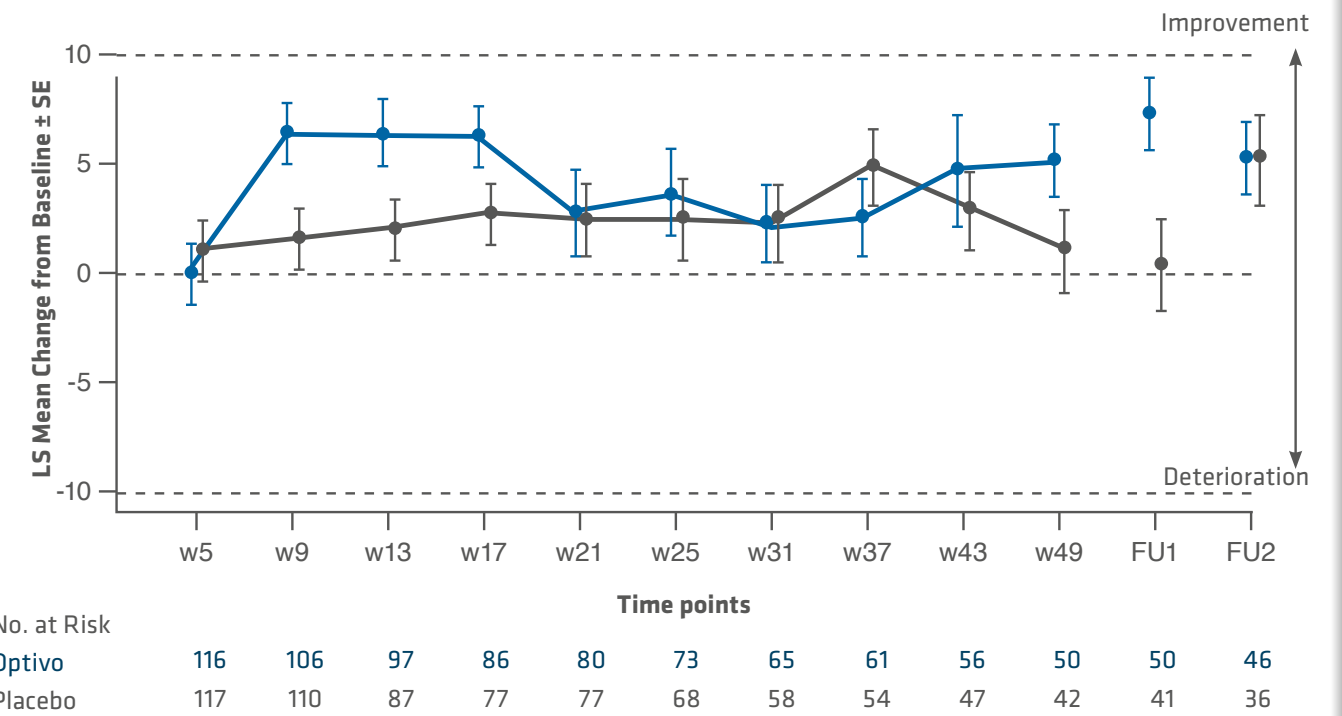
Treatment-related AEs occurring in ≥ 5% of patients in either arm



* Includes all treated patients. † There were 2 treatment-related deaths due to pneumonitis in the OPDIVO arm. There were no treatment-related deaths in the placebo arm. Includes events reported between the first dose and 30 days after the last dose of study therapy.

Opdivo offers a maintained quality of life throughout time⁶

EORTC-QLQ-C30 global health status score*



* Number of patients displayed is the number of patients included in the mixed effects linear regression for repeated measures analysis at each visit. † Standard error (SE) is the robust SE calculated using empirical variance estimator. FU denotes Follow-up; LS, Least Square.

Opdivo offers a flexible dosing in the adjuvant treatment of MIUC⁷

Dose every 4 weeks



480mg q4w

OR

For up to 1 year

Dose every 2 weeks

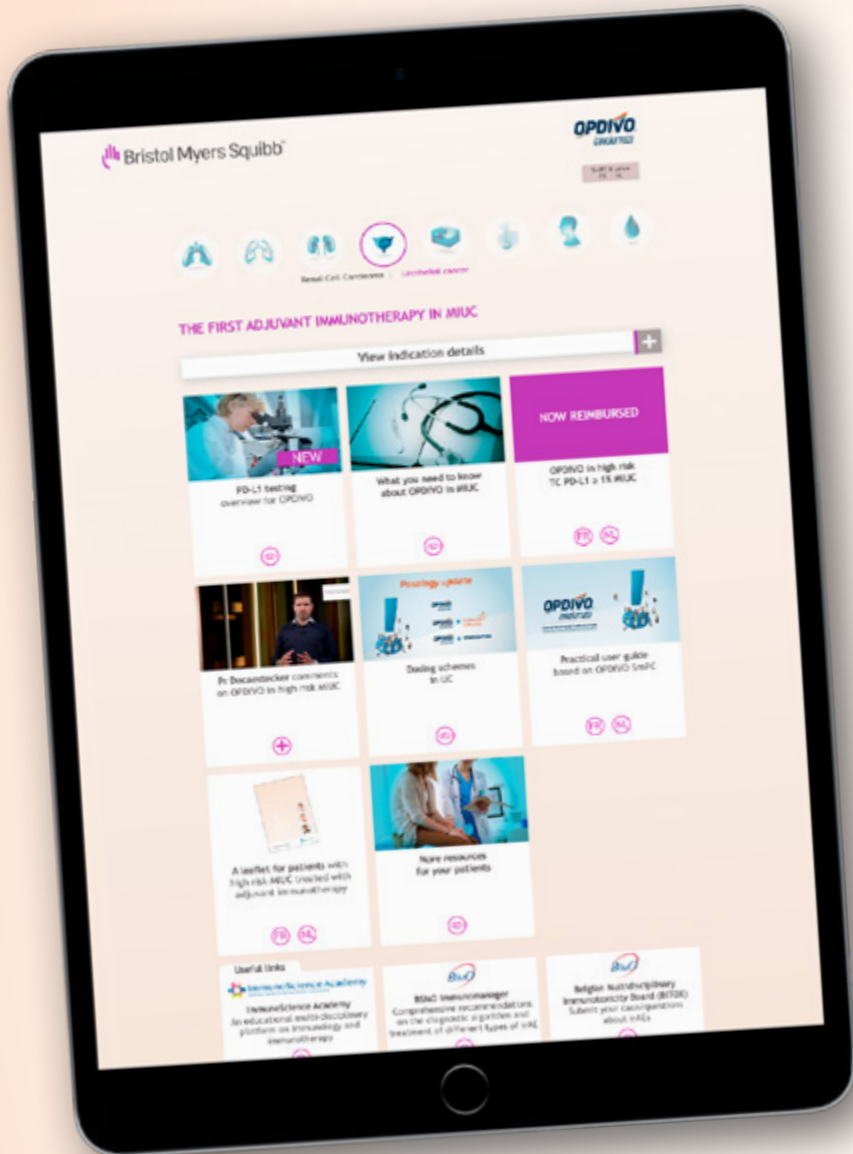


240mg q2w

q2w= every 2 weeks; q4w= every 4 weeks

1. Bajarin DF, Witjes JA, Gschwend JE, et al. Adjuvant nivolumab versus placebo in muscle-invasive urothelial carcinoma. *N Engl J Med*. 2021;384(22):2102-2114.
 2. Stein, J. P., Lieskovsky, G., Cote, R., Groshen, S., Feng, A. C., Boyd, S., Skinner, E., Bochner, B., Thangathurai, D., Mikhail, M., Raghavan, D., & Skinner, D. G. (2001). Radical cystectomy in the treatment of invasive bladder cancer: Long-term results in 1,054 patients. *Journal of Clinical Oncology*, 19(3), 666-675. <https://doi.org/10.1200/JCO.2001.19.3.666>
 3. Cagiannos, I., & Morash, C. (2009). Surveillance strategies after definitive therapy of invasive bladder cancer. In *Journal of the Canadian Urological Association* (Vol. 3, Issue 6 SUPPL. 4, p. S237). Canadian Medical Association. <https://doi.org/10.5489/cuaj.1205>
 4. Madersbacher, S., Hochreiter, W., Burkhard, F., Thalmann, G. N., Danuser, H., Markwalder, R., & Studer, U. E. (2003). Radical cystectomy for bladder cancer today - A homogeneous series without neoadjuvant therapy. *Journal of Clinical Oncology*, 21(4), 690-696. <https://doi.org/10.1200/JCO.2003.05.101>
 5. Cagiannos, I., & Morash, C. (2009). Surveillance strategies after definitive therapy of invasive bladder cancer. In *Journal of the Canadian Urological Association* (Vol. 3, Issue 6 SUPPL. 4, p. S237). Canadian Medical Association. <https://doi.org/10.5489/cuaj.1205>
 6. Bajarin DF et al. Adjuvant nivolumab versus placebo in muscle-invasive urothelial carcinoma. *N Engl J Med*, 2021;384(22):2102-2114 - Supplementary Appendix, p15, panel B "Evaluable Patients with PD-L1 ≥1%
 7. Opdivo SmPC

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OPDIVO[®]
(nivolumab)



OPDIVO as monotherapy is indicated for the adjuvant treatment of adults with muscle invasive urothelial carcinoma (MIUC) with tumour cell PD-L1 expression $\geq 1\%$, who are at high risk of recurrence after undergoing radical resection of MIUC⁷

