



Pembrolizumab 400mg Monotherapy

INDICATIONS FOR USE:

INDICATION	ICD10	Regimen Code	Reimbursement Status
First-line treatment of metastatic non-small cell lung carcinoma (NSCLC) in adults	C34	00558a	ODMS
whose tumours express PD-L1 with a ≥50% tumour proportion score (TPS) with no			01/04/2018
EGFR mutations or ALK translocations			
As monotherapy for the treatment of adults with unresectable or advanced	C43	00558b	ODMS
melanoma			June 2016
For the treatment of ipilimumab-refractory patients with unresectable or advanced	C43	00558c	ODMS
metastatic melanoma			June 2016
As monotherapy for the treatment of locally advanced or metastatic urothelial	C67	00558e	ODMS
carcinoma in adults who have received prior platinum-containing chemotherapy			01/02/2021
As monotherapy is indicated for the treatment of locally advanced or metastatic	C67	00558f	ODMS
urothelial carcinoma in adults who are not eligible for cisplatin-containing			01/02/2021
chemotherapy whose tumours express PD-L1 with a combined positive score (CPS)			
≥10			
As monotherapy is indicated for the adjuvant treatment of adults with Stage III	C43	00558g	ODMS
melanoma and lymph node involvement who have undergone complete resection			01/05/2021
As monotherapy for the first-line treatment of metastatic or unresectable recurrent	C76	00558h	ODMS
head and neck squamous cell carcinoma (HNSCC) in adults whose tumours express			20/12/2021
PD-L1 with a CPS ≥ 1.			
As monotherapy for the treatment of adult patients with relapsed or refractory (R/R)	C81	00558i	ODMS
classical Hodgkin lymphoma (cHL) who have failed autologous stem cell transplant			01/02/2022
(ASCT) or following at least two prior therapies when ASCT is not a treatment option.			
As monotherapy for the treatment of recurrent, or metastatic cervical cancer with	C53	00558j	Reimbursement
disease progression on or after chemotherapy in adults whose tumours express PD-L1			by exception ⁱⁱ
with a CPS ≥ 1 ⁱ			
First-line treatment of metastatic microsatellite instability-high (MSI-H) or mismatch	C18	00558k	ODMS
repair deficient (dMMR) colorectal cancer (CRC) in adults			01/04/2023

TREATMENT:

The starting dose of the drugs detailed below may be adjusted downward by the prescribing clinician, using their independent medical judgement, to consider each patients individual clinical circumstances.

Pembrolizumab is administered once every 42 days (6 weeks) until disease progression or unacceptable toxicity develops. For adjuvant melanoma therapy, the maximum treatment duration with pembrolizumab is 12 months.

For patients who achieve a satisfactory objective response according to the treating clinician's judgement and who have no signs of progression at 24 months of treatment, the discontinuation of the treatment should be taken into consideration.

Atypical responses (i.e., an initial transient increase in tumour size or small new lesions within the first few months followed by tumour shrinkage) have been observed. It is recommended to continue treatment for clinically stable patients with initial evidence of disease progression until disease progression is confirmed.

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Tumour Group: Lung / Skin/Melanoma / Lymphoma / Genitourinary / Head and Neck/ Gynaecology/Gastrointestinal NCCP Regimen Code: 00558	ISMO Contributor: Prof Michaela Higgins, Dr Deirdre O'Mahony, Prof Maccon Keane, Dr Cliona Grant	Page 1 of 8

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Facilities to treat anaphylaxis MUST be present when pembrolizumab is administered.

Day	Drug	Dose	Route	Diluent & Rate	Cycle
1	Pembrolizumab	400mg	IV infusion	100ml 0.9% NaCl over 30 minutes	Every 42 days (6 weeks)
Pembi	Pembrolizumab is diluted to a final concentration ranging from 1-10mg/ml.				
Admir	Administer using a low-protein binding 0.2 to 5 micrometre in-line or add-on filter.				

ELIGIBILITY:

- Indications as above
- Adequate haematological, hepatic and renal function

• First line Non-Small Cell Lung Cancer

- Histologically or cytologically confirmed stage IV NSCLC with no sensitizing EGFR mutations or ALK translocations
- o ECOG status 0-1
- o Confirmation of PD-L1 tumour proportion score of 50% or greater by a validated test
- No previous systemic therapy for metastatic disease

Melanoma

- Advanced: No more than one previous systemic treatment for advanced disease
- Adjuvant: Melanoma with involvement of lymph nodes or metastatic disease who have undergone complete resection
- o ECOG status 0-1

• Classical Hodgkin Lymphoma

- Consider the benefit of treatment with pembrolizumab versus the risk of possible GVHD in patients with a history of allogeneic HSCT
- o ECOG status 0-1

• Urothelial carcinoma second- line:

- Histologically or cytologically confirmed urothelial carcinoma of the renal pelvis, ureter, bladder or urethra that shows predominantly transitional-cell features on histologic testing
- o ECOG 0-2
- Have had progression or recurrence of urothelial cancer following receipt of a first-line platinum-containing regimen (CISplatin or CARBOplatin)

Urothelial carcinoma first-line

- Histologically- or cytologically-confirmed diagnosis of advanced/unresectable (inoperable) or metastatic urothelial cancer of the renal pelvis, ureter, bladder, or urethra (transitional cell and mixed transitional/non-transitional cell histologies)
- o Ineligible for CISplatin therapy
- o ECOG 0-2
- PD-L1 with a combined positive score (CPS) >10 as demonstrated by a validated assay method

• Head and neck squamous cell carcinoma (HNSCC)

- Histologically or cytologically-confirmed recurrent or metastatic head and neck squamous cell carcinoma considered incurable by local therapies
- Primary HNSCC tumour excluding cancers of the nasopharynx
- o ECOG 0-2

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 PD-L1 with a combined positive score (CPS) ≥1 as demonstrated by a validated assay method

Cervical:

- o ECOG 0-2
- PD-L1 with a combined positive score (CPS) ≥1 as demonstrated by a validated test method

• Metastatic colorectal cancer:

- ECOG 0-2
- Histologically confirmed dMMR/MSI-high CRC as demonstrated by a validated test method

CAUTION:

Use with caution in patients with:

• History of serious autoimmune disease

EXCLUSIONS:

- Hypersensitivity to pembrolizumab or any of the excipients
- Has received prior therapy with an anti-PD-1 or anti-PD-L1 antibody
- Untreated brain metastases
- Any medical condition that requires immunosuppressive doses of systemic corticosteroids or other immunosuppressive medication(s) (defined as >10mg prednisolone/daily (or steroid equivalent, excluding inhaled or topical steroids)
- History of interstitial lung disease
- Any active clinically significant infection requiring therapy
- HNSCC: Progressive disease within six months of completion of curatively intended systemic treatment for locoregionally advanced HNSCC

PRESCRIPTIVE AUTHORITY:

The treatment plan must be initiated by a Consultant Medical Oncologist or Consultant Haematologist experienced in the treatment of haematological malignancies

TESTS:

Baseline tests:

- FBC, renal and liver profile
- Glucose
- Thyroid function tests.
- Virology Screen: Hepatitis B (HBsAg, HBcoreAb) and Hepatitis C
- NSCLC, 1L urothelial cancer, HNSCC, cervical cancer: PD-L1 expression using a validated test method

Regular tests:

- FBC, renal and liver profile prior to each cycle
- Glucose prior to each cycle
- Thyroid Function Tests every 3 to 6 weeks

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Disease monitoring:

Disease monitoring should be in line with the patient's treatment plan and any other test/s as directed by the supervising Consultant.

DOSE MODIFICATIONS:

- Any dose modification should be discussed with a Consultant.
- Management of immune-related adverse reactions may require withholding of a dose or permanent discontinuation of pembrolizumab therapy and institution of systemic high-dose corticosteroid.
- Dose reduction is not recommended.
- Guidelines for withholding of doses or permanent discontinuation are described below in Table 1.

Table 1: Recommended treatment modifications for pembrolizumab

Immune-related adverse reactions	Severity (NCI-CTCAE v.4 grading)	Treatment modification
Pneumonitis	Grade 2	Withhold*
	Grade 3 or 4, or recurrent Grade 2	Permanently discontinue
Colitis	Grade 2 or 3	Withhold*
	Grade 4 or recurrent Grade 3	Permanently discontinue
Nephritis	Grade 2 with creatinine > 1.5 to ≤ 3 times upper limit of normal (ULN)	Withhold*
	Grade ≥ 3 with creatinine > 3 times ULN	Permanently discontinue
Endocrinopathies	Grade 2 adrenal insufficiency and	Withhold treatment until
	hypophysitis	controlled by hormone
		replacement
	Grades 3 or 4 adrenal insufficiency or symptomatic hypophysitis	Withhold*
		For patients with Grade 3 or Grade 4
	Type 1 diabetes associated with Grade ≥ 3	endocrinopathy that improved to Grade 2 or
	hyperglycaemia (glucose > 250 mg/dL or > 13.9	lower and is controlled with hormone
	mmol/L) or associated with ketoacidosis	replacement, if indicated, continuation of
		pembrolizumab may be considered after
	Hyperthyroidism Grade ≥ 3	corticosteroid taper, if needed. Otherwise treatment should be discontinued.
	Hypothyroidism	Hypothyroidism may be managed with
		replacement therapy without treatment
		interruption.
Hepatitis	Grade 2 with aspartate aminotransferase (AST) or alanine aminotransferase (ALT) > 3 to 5 times ULN or total bilirubin > 1.5 to 3 times ULN	Withhold*
	Grade ≥ 3 with AST or ALT > 5 times ULN or total bilirubin > 3 times ULN	Permanently discontinue

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	In case of liver metastasis with baseline Grade 2 elevation of AST or ALT, hepatitis with AST or ALT increases ≥ 50% and lasts ≥ 1 week	
Skin reactions	Grade 3 or suspected Stevens-Johnson syndrome (SJS) or toxic epidermal necrolysis (TEN)	Withhold*
	Grade 4 or confirmed SJS or TEN	Permanently discontinue
Other immune-	Based on severity and type of reaction (grade 2	Withhold*
related adverse	or Grade 3)	
reactions**	Grade 3 or 4 myocarditis Grade 3 or 4 encephalitis Grade 3 or 4 Guillain-Barre syndrome Grade 4 or recurrent Grade 3	Permanently discontinue
Infusion-related reactions	Grade 3 or 4	Permanently discontinue

^{*} Until adverse reactions recover to Grade 0-1. If treatment related toxicity does not resolve to Grade 0-1 within 12 weeks after last dose of pembrolizumab or if corticosteroid dosing cannot be reduced to ≤10mg prednisone or equivalent per day within 12 weeks, pembrolizumab should be permanently discontinued

Renal and Hepatic Impairment:

Table 2: Dose modification of pembrolizumab in renal and hepatic impairment

Renal Impairment		Hepatic Impairment	
Mild/Moderate	No dose adjustment required	Mild	No dose adjustment required
Severe	Has not been studied	Moderate/Severe	Has not been studied

SUPPORTIVE CARE:

EMETOGENIC POTENTIAL: Minimal (Refer to local policy).

PREMEDICATIONS: Not usually required

OTHER SUPPORTIVE CARE: Not usually required

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^{**}Pembrolizumab should be permanently discontinued for Grade 4 or recurrent Grade 3 immune-related adverse reactions, unless otherwise specified in Table 1.





ADVERSE EFFECTS / REGIMEN SPECIFIC COMPLICATIONS

The adverse effects listed are not exhaustive. Please refer to the relevant Summary of Product Characteristics for full details

Immune-mediated adverse reactions: Most immune-related adverse reactions occurring during treatment
with pembrolizumab are reversible and managed with interruptions of pembrolizumab, administration of
corticosteroids and/or supportive care. Immune-related adverse reactions have also occurred after the last
dose of pembrolizumab.

For suspected immune-related adverse reactions, adequate evaluation to confirm aetiology or exclude other causes should be ensured. Based on the severity of the adverse reaction, pembrolizumab should be withheld and corticosteroids administered. Upon improvement to Grade ≤ 1 , corticosteroid taper should be initiated and continued over at least 1 month.

Based on limited data from clinical studies in patients whose immune-related adverse reactions could not be controlled with corticosteroid use, administration of other systemic immunosuppressants can be considered.

Pembrolizumab may be restarted within 12 weeks after last dose of pembrolizumab if the adverse reaction remains at Grade ≤ 1 and corticosteroid dose has been reduced to ≤ 10 mg prednisone or equivalent per day.

Pembrolizumab must be permanently discontinued for any Grade 3 immune-related adverse reaction that recurs and for any Grade 4 immune-related adverse reaction toxicity, except for endocrinopathies that are controlled with replacement hormones.

Specific guidelines for management of Immune Mediated Adverse Events are available.

• Infusion-related reactions: Severe infusion-related reactions have been reported in patients receiving pembrolizumab. For severe infusion reactions, infusion should be stopped and pembrolizumab permanently discontinued. Patients with mild or moderate infusion reaction may continue to receive pembrolizumab with close monitoring; premedication with antipyretic and antihistamine may be considered.

DRUG INTERACTIONS:

- No formal pharmacokinetic drug interaction studies have been conducted with pembrolizumab. Since pembrolizumab is cleared from the circulation through catabolism, no metabolic drug-drug interactions are expected.
- The use of systemic corticosteroids or immunosuppressants before starting pembrolizumab should be avoided because of their potential interference with the pharmacodynamic activity and efficacy of pembrolizumab. However, systemic corticosteroids or other immunosuppressants can be used after starting pembrolizumab to treat immune-related adverse reactions.
- Current drug interaction databases should be consulted for more information.

COMPANY SUPPORT RESOURCES/Useful Links:

Please note that this is for information only and does not constitute endorsement by the NCCP

Patient Guide

https://www.hpra.ie/img/uploaded/swedocuments/896369cd-ec45-4e3a-978f-bacea851002e.pdf

Patient Alert Card

https://www.hpra.ie/img/uploaded/swedocuments/874908fb-698e-472d-91d5-dc3a1f14a8f7.pdf

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Version	Date	Amendment	Approved By
1	10/04/2010		Dr Deirdre O'Mahony
1	10/04/2019		Prof Michaela Higgins
2	10/07/2019	Update of indication for 00558b	Prof Maccon Keane

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3	21/08/2019	Addition of first line and second line	Prof Maccon Keane
		indications for urothelial cancer	
4	23/9/2020	Updated management of adverse events in	Prof Maccon Keane
		line with SmPC update.	
		Addition of adjuvant melanoma indication.	
5	01/02/2021	Updated reimbursement status	Prof Maccon Keane
6	30/4/2021	Updated indication for 00558g	Prof Maccon Keane
		Updated reimbursement status	
7	09/09/2021	Reviewed. Amended Table 1 (symbols re	Prof Maccon Keane
		nephritis and endocrinopathies). Updated	
		company support resources.	
8	22/12/2021	Updated indication for 00558h	Dr Cliona Grant
		Updated reimbursement status	
		Updated table 1 in line with SmPC.	
9	26/01/2022	Updated: deactivation of 00558d and	Prof Maccon Keane
		inclusion of indication 00558i.	
		Updated reimbursement status.	
10	01/04/2023	Addition of cervical and mCRC indications	Prof Maccon Keane

Comments and feedback welcome at oncologydrugs@cancercontrol.ie.

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ⁱ This is an unlicensed indication for the use of pembrolizumab in Ireland. Patients should be informed of this and consented to treatment in line with the hospital's policy on the use of unlicensed medication and unlicensed or "off label" indications. Prescribers should be fully aware of their responsibility in communicating any relevant information to the patient and also ensuring that the unlicensed or "off label" indication has been acknowledged by the hospital's Drugs and Therapeutics Committee, or equivalent, in line with hospital policy.

[&]quot;Contact oncologydrugs@cancercontrol.ie for clarification