Nivolumab (Opdivo®) in combination w	•	y®) for the treatment of patients with mismatch repair deficient (dMMR) or microsatellite gh (MSI-H) metastatic colorectal cancer
		General information
Drug description		Indication [1]
Nivolumab and ipilimumab are immune checkpoint inhibitors.	Nivolumab in combination with fluoropyrimidine-based combined and combine states and combine states and combined and combi	n ipilimumab is indicated for the treatment of adult patients with dMMR or MSI-H metastatic colorectal cancer after prior nation chemotherapy.
		Current treatment [2]
 The majority of patients with metastases have with combination chemotherapy. Treatment may include: Chemotherapy FOLFOX (folinic acid, 5-fluor) XELOX (capecitabine and ox) Irinotecan as second-line tree FOLFIRI (folinic acid, 5-fluor) Raltitrexed – for patients who Trifluridine/tipiracil Biological agents According to current NICE guidance: Cetuximab is recommended combination with FOLFOX or 	a disease that is initially not suit rouracil and oxaliplatin) as first of caliplatin) as first-line or second- atment ouracil and irinotecan) as first of o are intolerant to folinic acid, <u>c</u> , within its marketing authorisa r FOLFIRI ded, within its marketing author	line treatment
		Regulatory status
EMA [1, 3, 4]		FDA [5-7]
<u>Nivolumab (Opdivo®)</u> Approval status for this indication: On 20 May 2021, the opinion recommending a change to the terms of the mar		Approval status for this indication : On 10 July 2018, the FDA granted accelerated approval to ipilimumab (Yervoy®) for use in combination with nivolumab for the treatment of patients 12 years of age and older with MSI-H or dMMR metastatic colorectal cancer that has progressed following treatment with a fluoropyrimidine, oxaliplatin, and irinotecan.
Opdivo [®] . The CHMP adopted a new indication as follows:		This new use has also been added to the nivolumab (Opdivo®) labelling. Nivolumab received accelerated approval for this indication as a single agent on 31 July 2017.
 Nivolumab in combination with ipilimumab is in 	ndicated for the treatment of	<u>Nivolumab (Opdivo®)</u>
adult patients with dMMR or MSI-H metastatic fluoropyrimidine-based combination chemothe	colorectal cancer after prior	Other indications: Nivolumab is indicated for the treatment of
Other indications: Nivolumab is indicated in Melanoma as monotherapy or in combination wi treatment of advanced (unresectable adults. Relative to nivolumab monoth OS for the combination of nivolumab established only in patients with low to 	or metastatic) melanoma in erapy, an increase in PFS and with ipilimumab is	 patients with unresectable or metastatic melanoma, as a single agent or in combination with ipilimumab. patients with melanoma with lymph node involvement or metastatic disease who have undergone complete resection, in the adjuvant setting. <u>NSCLC</u>

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*	Adjuvant treatment of melanoma	 adult patients with metastatic NSCLC expressing PD-L1 (≥1%) as determined by an FDA-approved test,
	as monotherapy for the adjuvant treatment of adults with	with no EGFR or ALK genomic tumour aberrations, as first-line treatment in combination with
	melanoma with involvement of lymph nodes or metastatic disease	ipilimumab.
*	who have undergone complete resection. Non small cell lung cancer (NSCLC)	 adult patients with metastatic or recurrent NSCLC with no EGFR or ALK genomic tumour aberrations as
**	in combination with ipilimumab and 2 cycles of platinum-based	first-line treatment, in combination with ipilimumab and 2 cycles of platinum-doublet chemotherapy.
	chemotherapy for the first-line treatment of metastatic NSCLC in	 patients with metastatic NSCLC and progression on or after platinum-based chemotherapy. Patients with EGFR or ALK genomic tumour aberrations should have disease progression on FDA-approved
	adults whose tumours have no sensitising EGFR mutation or ALK	therapy for these aberrations prior to receiving Opdivo®.
	translocation.	 MPM
	 as monotherapy for the treatment of locally advanced or 	 adult patients with unresectable malignant pleural mesothelioma, as first-line treatment in
	metastatic NSCLC after prior chemotherapy in adults.	combination with ipilimumab.
*	Malignant pleural mesothelioma (MPM)	♦ <u>RCC</u>
·	 in combination with ipilimumab for the first-line treatment of adult 	 patients with intermediate or poor risk advanced RCC, as a first-line treatment in combination with
	patients with unresectable MPM.	ipilimumab.
*	Renal cell carcinoma (RCC)	 patients with advanced RCC, as a first-line treatment in combination with cabozantinib.
	as monotherapy for the treatment of advanced RCC after prior	 patients with advanced RCC who have received prior anti-angiogenic therapy.
	therapy in adults.	
	• in combination with ipilimumab for the first-line treatment of adult	adult patients with cHL that has relapsed or progressed after (indication is approved under accelerated
	patients with intermediate/poor risk advanced RCC.	approval based on overall response rate and duration of response):
	• in combination with cabozantinib for the first-line treatment of	o autologous hematopoietic stem cell transplantation (HSCT) and brentuximab vedotin, or
	adult patients with advanced RCC.	o 3 or more lines of systemic therapy that includes autologous HSCT.
*	<u>Classical Hodgkin lymphoma (cHL)</u>	✤ <u>SCCHN</u>
	 as monotherapy for the treatment of adult patients with relapsed 	 patients with recurrent or metastatic SCCHN with disease progression on or after platinum-based
	or refractory cHL after autologous stem cell transplant (ASCT) and	therapy.
	treatment with brentuximab vedotin.	✤ <u>Urothelial Carcinoma</u>
*	Squamous cell cancer of the head and neck (SCCHN)	adjuvant treatment of patients with urothelial carcinoma who are at high risk of recurrence after
	as monotherapy for the treatment of recurrent or metastatic	undergoing radical resection of urothelial carcinoma.
•	SCCHN in adults progressing on or after platinum-based therapy.	• patients with locally advanced or metastatic urothelial carcinoma who (indication is approved under
*	<u>Urothelial carcinoma</u>	accelerated approval based on overall response rate and duration of response:
	 as monotherapy for the treatment of locally advanced unresectable 	 have disease progression during or following platinum-containing chemotherapy
	or metastatic urothelial carcinoma in adults after failure of prior	 have disease progression within 12 months of neoadjuvant or adjuvant treatment with
*	platinum-containing therapy. Oesophageal squamous cell carcinoma (OSCC)	platinum-containing chemotherapy. Hepatocellular Carcinoma (HCC)
•	 as monotherapy for the treatment of adult patients with 	 patients with hepatocellular carcinoma who have been previously treated with sorafenib, as a single
	• as monotherapy for the treatment of addit patients with unresectable advanced, recurrent or metastatic OSCC after prior	 patients with repatocential carcinoma who have been previously treated with solarenib, as a single agent or in combination with ipilimumab.
	fluoropyrimidine- and platinum-based combination chemotherapy.	 Oesophagal Cancer
*	Adjuvant treatment of oesophageal or gastro-oesophageal junction cancer	 patients with completely resected oesophagal or gastroesophageal junction cancer with residual
·	 as monotherapy for the adjuvant treatment of adult patients with 	pathologic disease, who have received neoadjuvant chemoradiotherapy.
	oesophageal or gastro-oesophageal junction cancer who have	 patients with unresectable advanced, recurrent or metastatic oesophagal squamous cell carcinoma
	residual pathologic disease following prior neoadjuvant	(ESCC) after prior fluoropyrimidine- and platinum-based chemotherapy
	chemoradiotherapy.	Gastric Cancer, Gastroesophageal Junction Cancer, and Esophageal Adenocarcinoma
		 patients with advanced or metastatic gastric cancer, gastroesophageal junction cancer, and oesophagal
	<u>lpilimumab (Yervoy®)</u>	adenocarcinoma in combination with fluoropyrimidine- and platinum-containing chemotherapy.
		<u>Ipilimumab (Yervoy®)</u>

Approval status for this indication: On 20 May 2021, the CHMP adopted a positive	Other indications: Ipilimumab is indicated for the treatment of
opinion recommending a change to the terms of the marketing authorisation for	✤ <u>Melanoma</u>
Yervoy®. The CHMP adopted a new indication as follows: ◆ Ipilimumab in combination with nivolumab is indicated for the treatment of adult patients with dMMR or MSI-H metastatic colorectal cancer after prior fluoropyrimidine-based combination chemotherapy. Other indications: Ipilimumab is indicated ◆ Melanoma • as monotherapy for the treatment of advanced (unresectable or metastatic) melanoma in adults, and adolescents 12 years of age and older. • in combination with nivolumab for the treatment of advanced (unresectable or metastatic) melanoma in adults. Relative to nivolumab monotherapy, an increase in PFS and OS for the combination of nivolumab with ipilimumab is established only in patients with low tumour PD-L1 expression. * RCC • in combination with nivolumab for the first-line treatment of adult patients with intermediate/poor-risk advanced RCC. * NSCLC • in combination with nivolumab and 2 cycles of platinum-based chemotherapy for the first-line treatment of metastatic NSCLC in adults whose tumours have no sensitising EGFR mutation or ALK translocation. * MPM • in combination with nivolumab for the first-line treatment of adult patients with unresectable MPM.	 Interactional Unresectable or metastatic melanoma in adults and paediatric patients 12 years and older. adult patients with unresectable or metastatic melanoma, in combination with nivolumab. patients with cutaneous melanoma with pathologic involvement of regional lymph nodes of more than 1 mm who have undergone complete resection, including total lymphadenectomy (adjuvant treatment). RCC patients with intermediate or poor risk advanced RCC, as first-line treatment in combination with nivolumab. HCC patients with HCC who have been previously treated with sorafenib, in combination with nivolumab (indication is approved under accelerated approval based on overall response rate and duration of response). NSCLC patients with metastatic NSCLC expressing PD-L1 (21%) as determined by an FDA-approved test, with no EGFR or ALK genomic tumour aberrations, as first-line treatment in combination with nivolumab. adult patients with metastatic or recurrent NSCLC with no EGFR or ALK genomic tumour aberrations as first-line treatment, in combination with nivolumab ad 2 cycles of platinum-doublet chemotherapy. MPM adult patients with unresectable malignant pleural mesothelioma, as first-line treatment in combination with nivolumab.
	Costs [8]
24 ml Opdivo [®] concentrate for solution for infusion 10mg/ml = € 3,432.00 (ex-factory price 10 ml Yervoy [®] concentrate for solution for infusion 5mg/ml = € 4,250.00 (ex-factory price)	e))
W	/arnings and precautions [5, 6]
hepatotoxicity, immune-mediated endocrinopathies, immune-mediated	r tissue, including the following: immune-mediated pneumonitis, immune-mediated colitis, immune-mediated hepatitis and ted dermatologic adverse reactions, and immune-mediated nephritis and renal dysfunction. mes, creatinine, and thyroid function at baseline and periodically during treatment.
Withhold or permanently discontinue based on severity and type of real	action.

Infusion-related reactions: Interrupt, slow the rate of infusion, or permanently discontinue Opdivo® based on the severity of the reaction.

• Complications of allogeneic HSCT

• Fatal and other serious complications can occur in patients who receive allogeneic HSCT before or after being treated with a PD-1/PD-L1 blocking antibody.

Embryo-Fetal toxicity:

- Can cause fetal harm. Advise females of reproductive potential of the potential risk to a foetus and to use effective contraception.
- Treatment of patients with multiple myeloma with a PD-1 or PD-L1 blocking antibody in combination with a thalidomide analogue plus dexamethasone is not recommended outside of controlled clinical trials

Ipilimumab (Yervoy®)

Severe and Fatal IMARs:

- IMARs can occur in any organ system or tissue, including the following: immune-mediated colitis, immune-mediated hepatitis, immune-mediated dermatologic adverse reactions, immunemediated endocrinopathies, immune-mediated pneumonitis, and immune-mediated nephritis with renal dysfunction, and can occur at any time during treatment or after discontinuation.
- Monitor for symptoms and signs that may be clinical manifestations of IMAR. Evaluate clinical chemistries including liver enzymes, creatinine, adrenocorticotropic hormone level and thyroid function at baseline and before each dose.
- In general, withhold Yervoy[®] for severe (grade 3) and permanently discontinue for life-threatening (grade 4) IMARs.

Infusion-Related Reactions:

• Discontinue for severe and life-threatening infusion-related reactions. Interrupt or slow the rate of infusion in patients with mild or moderate infusion-related reactions.

Complications of allogeneic HSCT:

• Fatal and other serious complications can occur in patients who receive allogeneic HSCT before or after being treated with Yervoy®.

• Embryo-Fetal Toxicity:

• Can cause fetal harm. Advise of the potential risk to a foetus and use of effective contraception.

					Study characteristic	cs [9 , 10]		
Trial name	п	Intervention (I)	Compara tor (C)	PE	Characteristics	Biomarker	Funding	Publication(s)
CheckMate 142, Study CA209142 NCT02060188	82	Ipilimumab 1 mg/kg IV and nivolumab 3 mg/kg IV every 3 weeks for 4 doses, followed by nivolumab 3 mg/kg IV as a single agent every 2 weeks, until unacceptable toxicity or radiographic progression	-	Investigator-assessed objective response as per RECIST 1.1	Multi-centre, non- randomised, multiple parallel-cohort, open- label, phase 2 study	-	Bristol-Myers Squibb	[9]
				i cy (I vs. C)				afety, n=119 [11]
complete and 35 pa Response duration Separate cohort o	artial respo n of ≥ 6 mo f 58 patien	nses. nths: 89% of respor ts with dMMR/MSI-	nding patients H mCRC with	s. n disease progression on c	T 1.1): 46% (95% Cl: 35,58 or following fluoropyrimidi % having response duration	ine-, oxaliplatin-,	Grade ≥3 TRAEs: n=38/119 (329 Select TRAEs (sTRAEs) Grade Deaths attributed to study dru Discontinuation due to TRAEs	3 or 4: n= 29/119 (24%) ug-related toxicity: n=o

2-year clinical update [12]:					
	tients with median follow-up of 29.0	_	(53–82) from 60% (44.3–74.3)		
	3% from 7%; PR: 56%, SD: 16%, PD:	-			
	of investigator-assessed and blinde	ed independent central revi	ew was 89%.		
 Disease control rate: 8 	34%				
 Median DOR was not 					
 Median PFS and OS w 	vere not reached, and 24-month rate	es were 74% and 79%, respe	ectively.		
 19 patients discontinu 	ed study treatment without subsequent	uent therapy.			
Clinical update [13]					
• •	s (median follow-up was 13.8 month	1s): 60% (95% Cl 44.3–74.3)			
	stent with the overall population ac			prior	
•	therapy, and mutation status.		ge, per e pe	p	
aajoranajoranajorana					
	• • •				
, , , , , , , , , , , , , , , , , , ,		dian follow-up 51.1 month	s, n=119) [4]:		
PDATE: Efficacy results (min	imum follow-up 46.9 months; med	dian follow-up 51.1 month	s, n=119) [4]:		
PDATE: Efficacy results (min onfirmed objective response:	imum follow-up 46.9 months; med	dian follow-up 51.1 month	s, n=119) [4]:		
PDATE: Efficacy results (min onfirmed objective response: R: 12.6%	imum follow-up 46.9 months; med	dian follow-up 51.1 month	is, n=119) [4]:		
IPDATE: Efficacy results (min confirmed objective response: R: 12.6% R: 52.1%	imum follow-up 46.9 months; med	dian follow-up 51.1 month	s, n=119) [4]:		
IPDATE: Efficacy results (min onfirmed objective response: R: 12.6% R: 52.1% table disease: 21.0% Median DOR: NR (range 1.4-58)	imum follow-up 46.9 months; med 64.7% (95% Cl, 55.4-73.2) .0+)	dian follow-up 51.1 month	s, n=119) [4]:		
JPDATE: Efficacy results (min confirmed objective response: R: 12.6% R: 52.1% Stable disease: 21.0% Median DOR: NR (range 1.4-58)	imum follow-up 46.9 months; med 64.7% (95% Cl, 55.4-73.2) .0+)	dian follow-up 51.1 month	s, n=119) [4]:		
, , , , , , , , , , , , , , , , , , ,	imum follow-up 46.9 months; med 64.7% (95% Cl, 55.4-73.2) .0+)		s, n=119) [4]: 10-MCBS version 1.1 [14]	
JPDATE: Efficacy results (min Confirmed objective response: R: 12.6% PR: 52.1% Stable disease: 21.0% Median DOR: NR (range 1.4-58)	imum follow-up 46.9 months; med 64.7% (95% Cl, 55.4-73.2) .0+) nonths (range 1.1-37.1)	ESM	IO-MCBS version 1.1 [14] points were reported in the analyses.	
JPDATE: Efficacy results (min Confirmed objective response: CR: 12.6% PR: 52.1% Stable disease: 21.0% Median DOR: NR (range 1.4-58)	imum follow-up 46.9 months; med 64.7% (95% Cl, 55.4-73.2) .0+) nonths (range 1.1-37.1)	ESM CBS is not applicable since	IO-MCBS version 1.1 [14	points were reported in the analyses.	
JPDATE: Efficacy results (mini confirmed objective response: R: 12.6% R: 52.1% Stable disease: 21.0% Median DOR: NR (range 1.4-58) Median time to response: 2.8 m Adequate generation of	imum follow-up 46.9 months; med 64.7% (95% Cl, 55.4-73.2) .0+) nonths (range 1.1-37.1) The ESMO-M Adequate allocation	ESM CBS is not applicable since Risk	IO-MCBS version 1.1 [14 no statistically significant endp c of bias (study level) [15] Selective outcome	ooints were reported in the analyses.	Risk of bias
JPDATE: Efficacy results (min Confirmed objective response: CR: 12.6% PR: 52.1% Stable disease: 21.0% Aedian DOR: NR (range 1.4-58 Median time to response: 2.8 m Adequate generation of randomisation sequence	imum follow-up 46.9 months; med 64.7% (95% Cl, 55.4-73.2) .0+) nonths (range 1.1-37.1) The ESMO-M Adequate allocation concealment	ESM CBS is not applicable since	IO-MCBS version 1.1 [14 no statistically significant endp of bias (study level) [15]	ooints were reported in the analyses.	Risk of bias
JPDATE: Efficacy results (mini Confirmed objective response: R: 12.6% PR: 52.1% Stable disease: 21.0% Aedian DOR: NR (range 1.4-58 Median time to response: 2.8 m Adequate generation of	imum follow-up 46.9 months; med 64.7% (95% Cl, 55.4-73.2) .0+) nonths (range 1.1-37.1) The ESMO-M Adequate allocation	ESM CBS is not applicable since Risk	IO-MCBS version 1.1 [14 no statistically significant endp c of bias (study level) [15] Selective outcome	ooints were reported in the analyses.	Risk of bias high

Abbreviations: AE=adverse event, AJ=adjustment, ALK=anaplastic lymphoma kinase, ASCT=autologous stem cell transplant, C=comparator, cHL=classical Hodgkin lymphoma, CHMP=Committee for Medicinal Products for Human Use, CI=confidence interval, CR=complete response, dMMR=mismatch repair deficient, DOR=duration of response, ECOG= Eastern Cooperative Oncology Group, EGFR=epidermal growth factor receptor, EMA=European Medicines Agency, ESCC=esophageal squamous cell carcinoma, ESMO-MCBS= European Society of Medical Oncology – Magnitude of Clinical Benefit Scale, FDA=Food and Drug Administration, FM=final magnitude of clinical benefit grade, HCC=hepatocellular carcinoma, HR=hazard ratio, HSCT=haematopoietic stem cell transplantation, I=intervention, IMAR=immune-Mediated Adverse Reactions Int.=intention, MG=median gain, MPM=malignant pleural mesothelioma MSI-H= microsatellite instability high, PR=partial response, n=number of patients, NICE=National Institute for Health and Care Excellence, NSCLC=non small cell lung cancer, ORR=objective response rate, OS=overall survival, OSCC=oesophageal squamous cell

¹ CheckMate 142 trial is ongoing until 07/2022.

² The funder provided the study drug and worked with the investigators to design the study and to collect, analyse, and interpret the data. All authors made the decision to submit the report for publication, and all drafts of the report were prepared by the corresponding author with input from coauthors and editorial assistance from professional medical writers, funded by the funder.

carcinoma, PD=pogressive disease, PD-L1=programmed death-ligand 1, PE=primary endpoint, PFS=progression-free survival, PM=preliminary grade, PR=partial response, QoL=quality of life, RCC=renal cell carcinoma, RECIST=Response Evaluation Criteria in Solid Tumors, SAE=serious adverse event, SCCHN=squamous cell cancer of the head and neck, SD=stable disease, ST=standard treatment, sTRAE=select treatment-related adverse event, TRAE=treatment-related adverse event

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