	• *	d platinum-based combination chemotherapy for the treatment of patients with , gastro-oesophageal junction or oesophageal adenocarcinoma				
	G	ieneral information				
Drug description [1]		Indication [1]				
	yrimidine- and platinum-based combination chemotherapy is indicated for the first-line treatment of adult patients static gastric, gastro-oesophageal junction or oesophageal adenocarcinoma whose tumours express PD-L1 with a					
	Cu	urrent treatment [2]				
 Trastuzumab Trastuzumab, in combination of the stomach or gastro-ore have not received have tumours exp People who are currently retreatment until they and the Capecitabine 	on with cisplatin and capecitabine or 5-f esophageal junction who: prior treatment for their metastatic dis ressing high levels of HER2 as defined b eceiving treatment with trastuzumab f eir clinicians consider it appropriate to s	by a positive immunohistochemistry score of 3. for HER2-positive metastatic gastric cancer who do not meet the criteria above should have the option to continue stop.				
 Capecitabine in combinatio 		e first-line treatment of inoperable advanced gastric cancer. Regulatory status				
EMA [1]		FDA [3, 4]				
 Approval status for this indication: On 16 September 20 opinion recommending a change to the terms of the mar The CHMP adopted a new indication as follows: Opdivo® in combination with fluoropyrimidine-chemotherapy is indicated for the first-line treat HER2-negative advanced or metastatic gastric, oesophageal adenocarcinoma whose tumours of the section of	keting authorisation for Opdivo®. - and platinum-based combination Itment of adult patients with gastro-oesophageal junction or	 Approval status for this indication: On 16 April 2021, the FDA approved nivolumab (Opdivo®) in combination with fluoropyrimidine- and platinum-containing chemotherapy for advanced or metastatic gastric cancer, gastroesophageal junction cancer, and oesophageal adenocarcinoma. Other indications: Opdivo® is indicated for the treatment of: Melanoma patients with unresectable or metastatic melanoma, as a single agent or in combination with ipilimumab. 				
 Other indications: Opdivo® is indicated in Melanoma as monotherapy or in combination wi advanced (unresectable or metastation nivolumab monotherapy, an increase nivolumab with ipilimumab is establist PD-L1 expression. Adjuvant treatment of melanoma as monotherapy for the adjuvant treatinvolvement of lymph nodes or metast complete resection. Non-small cell lung cancer (NSCLC) in combination with ipilimumab and z chemotherapy for the first-line treating whose tumours have no sensitising EC 	c) melanoma in adults. Relative to in PFS and OS for the combination of shed only in patients with low tumour attment of adults with melanoma with static disease who have undergone a cycles of platinum-based nent of metastatic NSCLC in adults	 patients with melanoma with lymph node involvement or metastatic disease who have undergone complete resection, in the adjuvant setting. NSCLC adult patients with metastatic NSCLC expressing PD-L1 (≥1%) as determined by an FDA-approved test, with no EGFR or ALK genomic tumour aberrations, as first-line treatment in combination with ipilimumab. adult patients with metastatic or recurrent NSCLC with no EGFR or ALK genomic tumour aberrations as first-line treatment, in combination with ipilimumab and 2 cycles of platinum-doublet chemotherapy. 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 therapy for these aberrations prior to receiving Opdivo®. MPM				

 Classical Hodgkin lymphoma (CHL) as monotherapy for the treatment of adult patients with relapsed or refractory CHL after autologous stem cell transplant (ASCT) and treatment with brentuximab vedotin. Squamous cell cancer of the head and neck (SCCHN) as monotherapy for the treatment of recurrent or metastatic SCCHN in adults progressing on or after platinum-based therapy. Urothelial carcinoma (UC) as monotherapy for the treatment of locally advanced unresectable or metastatic UC in adults after failure of prior platinum-containing therapy. Mismatch repair deficient (dMMR) or microsatellite instability-high (MSI-H) colorectal cancer (CRC)	 radical resection of UC. patients with locally advanced or metastatic urothelial carcinoma who: have disease progression during or following platinum-containing chemotherapy have disease progression within 12 months of neoadjuvant or adjuvant treatment with platinum-containing chemotherapy. CRC adult and paediatric (12 years and older) patients with MSI-H or dMMR metastatic CRC that has progressed following treatment with a fluoropyrimidine, oxaliplatin, and irinotecan, as a single agent or in combination with ipilimumab (indication approved under accelerated approval based on ORR and DOR). Hepatocellular Carcinoma (HCC) patients with completely resected oesophageal or gastroesophageal junction cancer with residual pathologic disease, who have received neoadjuvant chemoradiotherapy. patients with onresectable advanced, recurrent or metastatic oesophageal squamous cell carcinoma after prior fluoropyrimidine- and platinum-based chemotherapy. Priority review Orphan drug designation
	Costs [5]
4 ml Opdivo [®] concentrate for solution for infusion 10 mg/ml = € 572.00 (ex-factory price)	
 4 mi Opdivo® concentrate for solution for infusion 10 mg/mi = € 572.00 (ex-factory price) 10 ml Opdivo® concentrate for solution for infusion 10 mg/ml = € 1,430.00 (ex-factory price) 24 ml Opdivo® concentrate for solution for infusion 10 mg/ml = € 3,432.00 (ex-factory price) 	
Warning	s and precautions [4]
Immune-mediated adverse reactions:	s and precabilities [4]

- Immune-mediated adverse reactions, which may be severe or fatal, can occur in any organ system or tissue, including the following: immune-mediated pneumonitis, immune-mediated colitis, immune-mediated hepatitis and hepatotoxicity, immune-mediated endocrinopathies, immune-mediated dermatologic adverse reactions, and immune-mediated nephritis and renal dysfunction.
- Monitor for early identification and management. Evaluate liver enzymes, creatinine, and thyroid function at baseline and periodically during treatment.
- Withhold or permanently discontinue based on severity and type of reaction.

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 a patient who receive allogeneic HSCT before or after being treated with a PD-1/PD-L1 blocking antibody.
- Embryo-foetal toxicity:

*

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

	Study characteristics [6-8]									
Trial name	n	Intervention (I)	Comparator (C)	PE	Characteristics	Biomarker	Funding	Publication(s)		
CheckMate 649, CA209649 NCT02872116	1,581: 789 vs. 792	nivolumab (360 mg every 3 weeks or 240 mg every 2 weeks) + investigator's choice of chemotherapy ¹	chemotherapy alone	OS or PFS by BICR in patients whose tumours had a PD- L1 CPS of ≥5	multicentre, randomised, open- label, phase 3 trial	HER2	Bristol Myers Squibb, in collaboration with Ono Pharmaceutical	[7]		
	Efficacy (I vs. C)							Safety (I vs. C)		
OS (at a minimum follow-up of 12.1 months): nivolumab plus chemotherapy showed superior OS, with a 29% reduction in the risk of death compared with chemotherapy alone; HR 0.71 (98.4% Cl 0.59-0.86), p<0.0001							Serious treatment-relat n=93/767 (12%) Serious treatment-relat (10%) Serious treatment-relat Discontinuation ² : n=284	lated AEs: n=462/782 (59%) vs. n=341/767 (44%) ed AEs of any grade: n=172/782 (22%) vs. ed grade 3-4 AEs: n=131/782 (17%) vs. n=77/767 ed grade 5 AEs: n=4 vs. n=0 ;/782 (36%) vs. n=181/767 (24%) dered treatment related ³ : n=16/782 (2%) vs.		

¹ XELOX [capecitabine 1000 mg/m² twice a day, days 1–14 and oxaliplatin 130 mg/m², day 1, every 3 weeks] or FOLFOX [leucovorin 400 mg/m², day 1, fluorouracil 400 mg/m², day 1 and 1200 mg/m², days 1–2, and oxaliplatin 85 mg/m², day 1, every 2 weeks].

² Discontinuation due to any-grade treatment-related AE(s).

³ Nivolumab plus chemotherapy group: 12 treatment-related deaths were due to 3 cases of pneumonitis, 2 cases of febrile neutropenia or neutropenic fever, and 1 case each of gastrointestinal bleeding, gastrointestinal toxicity, infection, intestinal mucositis, pneumonia, septic shock, and stroke. An additional 4 deaths due to other reasons were specified as related to treatment by the investigator; these included 1 case each of acute cerebral infarction, mesenteric thrombosis, disseminated intravascular coagulation, and pneumonitis. Chemotherapy alone group: 4 treatment-related deaths were due to diarrhoea, asthenia and severe loss of appetite, pulmonary thromboembolism, and pneumonitis.

Of the 16 deaths in the nivolumab plus chemotherapy group, four were deemed to be related to nivolumab, five to nivolumab plus chemotherapy, and seven to chemotherapy alone.

no rece				ths (5.7–7.9)						
			equent therapy	/ for advanced gastric, ga	stro-oesophageal junctior	n, or oes	ophageal			
noma:	38% vs. /	₊ 1%								
escript	ive analy	ysis with a mi	nimum follow-	<u>up of 19.4 months [9]:</u>						
344 (7	3%) vs. 3	97 (82%), HR ().69 (0.60-0.81))						
			-							
-										
PFS rate at 12 months: 36.3 (31.7-41.0) vs. 21.9 (17.8-26.1)										
Objective response rate: 60% vs. 45%										
•										
	oncopo	136 . 9.09 (93)	, , , , , , , , , , , , , , , , , , , ,	vs. o.g/ (gg/ve./ j.oz /.o	.,					
			re at baseline ar	nd 80% or more at most s	subsequent assessments fo	or which	n at least ten patients			
			, , ,	· · ·	inity assigned patients, wit		provement nom			
					the least squares mean dif	ference	between treatment			
			t (patients with	a PD-L1 CPS ≥5, HR 0.64	, (95% CI 0.49–0.83) and al	l randoi	mly assigned patients			
IK 0.//	,0.03-0.	95).				vorcio	n 4 [1 0]			
Int.	Form	MG ST	MG	HR (98 4% CI)				Qol	Al	FM
_		≤12					. or weitry			
NC	2A	months	months	(0.59–0.86)	≥3 months	4	-	-	-	4
							+ 15% grade 3-4			
		≤12	OS: +3.3	HR 0.71	HR >0.70 or gain <1.5		treatment-related			
NO 1				,	, , , ,	1	AEs, + 12%	_	-1	
NC	2A	months	months	(0.59–0.86)	months	-	discontinuation		-1	0
	344 (7 : 14.4 I : 342 (: 3	344 (73%) vs. 39 : 14.4 months (73%) vs. 39 : 14.4 months: 57.5 : 342 (72.3%) vs : 342 (73%) vs : 341 (73%) vs : 342 (72.3%) vs : 341 (73%) vs <td: (73%)="" 341="" td="" vs<=""></td:>	344 (73%) vs. 397 (82%), HR c : 14.4 months (95% Cl, 13.1-14 12 months: 57.3 (95% Cl, 52.6 : 342 (72.3%) vs. 366 (75.9%), 5: 8.31 months (95% Cl, 7.03-9 12 months: 36.3 (31.7-41.0) v esponse rate: 60% vs. 45% esponse: 12.2% vs. 6.7% monse: 47.9% vs. 38.5% ration of response: 9.69 (95% me proportion of patients with station of response: 9.69 (95% me proportion of patients with seline mean FACT-Ga total s memotherapy alone groups (1: 26.6; 28.3) and chemotherapy aseline in FACT-Ga total score patients with a PD-L1 CPS of roups favoured nivolumab plus sources that the minimation in the nivolumab plus aselines in the nivolumab plus sources that the minimation of the statement R 0.77; 0.63-0.95). Int. Form MG ST NC 24 ≤12	344 (73%) vs. 397 (82%), HR 0.69 (0.60-0.81) : 14.4 months (95% Cl, 13.1-16.3) vs. 11.1 mo 12 months: 57.3 (95% Cl, 52.6-61.6) vs. 46.4 (: 342 (72.3%) vs. 366 (75.9%), HR 0.68 (0.59-6 S: 8.31 months (95% Cl, 7.03-9.26) vs. 6.05 m 12 months: 36.3 (31.7-41.0) vs. 21.9 (17.8-26 esponse rate: 60% vs. 45% esponse: 12.2% vs. 6.7% monse: 47.9% vs. 38.5% ration of response: 9.69 (95% Cl, 8.25-12.22) me proportion of patients with a PD-L1 CPS of uestionnaire was 90% or more at baseline and sponded (until week 109). aseline mean FACT-Ga total scores were sim memotherapy alone groups (127.6; 26.4) for p 26.6; 28.3) and chemotherapy alone groups aseline in FACT-Ga total score at all on-treature patients with a PD-L1 CPS of ≥5 and all randor toups favoured nivolumab plus chemotherapy attents in the nivolumab plus chemotherapy one group while on treatment (patients with IR 0.77; 0.63–0.95). Int. Form MG ST MG NC 24 ≤12 OS: +3.3	esponse rate: 60% vs. 45% esponse: 12.2% vs. 6.7% nonse: 47.9% vs. 38.5% ration of response: 9.69 (95% Cl, $8.25-12.22$) vs. 6.97 (95% Cl, $5.62-7.8\%$ ne proportion of patients with a PD-L1 CPS of ≥ 5 and all randomly assistentiating was 90% or more at baseline and 80% or more at most seponded (until week 109).aseline mean FACT-Ga total scores were similar between the nivolume memotherapy alone groups (127.6 ; 26.4) for patients with a PD-L1 CPS 26.6 ; 28.3) and chemotherapy alone groups (126.8 ; 26.8) for all random asseline in FACT-Ga total score at all on-treatment assessments.patients with a PD-L1 CPS of ≥ 5 and all randomly assigned patients, roups favoured nivolumab plus chemotherapy vs. chemotherapy alone sult was less than the minimally important difference of 15.1 point atients in the nivolumab plus chemotherapy group had decreased risione group while on treatment (patients with a PD-L1 CPS ≥ 5 , HR o.64 R o.77; $0.63-0.95$).Int.FormMG STMGHR (98.4% Cl)NC $2A$ ≤ 12 OS: $+3.3$ HR 0.71	344 (73%) vs. 397 (82%), HR 0.69 (0.60-0.81):: 14.4 months (95% Cl, 13.1-16.3) vs. 11.1 months (95%Cl, 10.0-12.1)12 months: 57.3 (95% Cl, 52.6-61.6) vs. 46.4 (95% Cl, 41.8-50.8):: 342 (72.3%) vs. 366 (75.9%), HR 0.68 (0.59-0.79)S: 8.31 months (95% Cl, 7.03-9.26) vs. 6.05 months (5.55-6.90)12 months: 36.3 (31.7-41.0) vs. 21.9 (17.8-26.1)esponse rate: 60% vs. 45%esponse: 12.2% vs. 6.7%ionse: 47.9% vs. 38.5%ratio of response: 9.69 (95%Cl, 8.25-12.22) vs. 6.97 (95%Cl, 5.62-7.85)me proportion of patients with a PD-L1 CPS of ≥5 and all randomly assigned patients completinvestionnaire was 90% or more at baseline and 80% or more at most subsequent assessments forsponded (until week 109).aseline mean FACT-Ga total scores were similar between the nivolumab plus chemotherapy (12remotherapy alone groups (127.6; 26.4) for patients with a PD-L1 CPS of ≥5 and between the nivolumab plus chemotherapy (12remotherapy alone groups (127.6; 26.4) for patients with a PD-L1 CPS of ≥5 and between the nivolus assigned patients, wit asseline in FACT-Ga total score at all on-treatment assessments.patients with a PD-L1 CPS of ≥5 and all randomly assigned patients, wit asseline in FACT-Ga total score at all on-treatment assessments.patients with a PD-L1 CPS of ≥5 and all randomly assigned patients, with ≥50 isolt was less than the minimally important difference of 15.1 points.atients in the nivolumab plus chemotherapy group had decreased risk of symptom deterioration on group while on treatment (patients with a PD-L1 CPS ≥5, HR 0.64 (95% Cl 0.49-0.83) and all R 0.77; 0.63-0.95).IntFormMG STMGHR (98.4% Cl)Score	344 (73%) vs. 397 (82%), HR 0.69 (0.60-0.81): 14.4 months (95% CI, 13.1-16.3) vs. 11.1 months (95%CI, 10.0-12.1)12 months: 57.3 (95% CI, 52.6-61.6) vs. 46.4 (95% CI, 41.8-50.8): 342 (72.3%) vs. 366 (75.9%), HR 0.68 (0.59-0.79)5: 8.31 months (95% CI, 7.03-9.26) vs. 6.05 months (5.55-6.90)12 months: 36.3 (31.7-41.0) vs. 21.9 (17.8-26.1)esponse rate: 60% vs. 45%esponse: 12.2% vs. 6.7%onse: 47.9% vs. 38.5%ration of response: 9.69 (95%CI, 8.25-12.22) vs. 6.97 (95%CI, 5.62-7.85)ne proportion of patients with a PD-L1 CPS of ≥5 and all randomly assigned patients completing the F,sestionnaire was go% or more at baseline and 80% or more at most subsequent assessments for whichsponded (until week 109).aseline mean FACT-Ga total scores were similar between the nivolumab plus chemotherapy (127.6; 5D.patients with a PD-L1 CPS of ≥5 and all randomly assigned patients, with an imasseline in FACT-Ga total score at all on-treatment assessments.patients with a PD-L1 CPS of ≥5 and all randomly assigned patients, with an imasseline in FACT-Ga total score at all on-treatment assessments.patients with a PD-L1 CPS of ≥5 and all randomly assigned patients, with an imasseline in FACT-Ga total score at all on-treatment assessments.patients with a PD-L1 CPS of ≥5 and all randomly assigned patients, with a point and only assigned patients with ≥50 patient for \$6, 26, 28.3) and chemotherapy group had decreased risk of symptom deterioration than one group while on treatment (patients with a PD-L1 CPS ≥5, HR 0.64 (95% CI 0.49-0.83) and all	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	344 (73%) vs. 397 (82%), HR o.69 (o.60-o.8.) $124, 4$ (73%) vs. 397 (82%), HR o.68 (o.50-o.8.) $124, 4$ (73%) vs. 366 (75, 395 % (Cl, $31, 3-16.3$) vs. 46.4 (95% Cl, $4, 18.50.8$) 324 (72.3%) vs. 366 (75, 59%), HR o.68 (o.59-o.79) 532 (17, $70, 90$ vs. 5.6 (75, $30, -6.0$ s months (5, $55.6.90$) 12 months: $(95\%$ (Cl, $70.3-9.26$) vs. 6.05 months (5, $55.6.90$) 12 months: $(95\%$ (Cl, $70.3-9.26$) vs. 6.05 months (5, $55.6.90$) 12 months: $(95\%$ (Cl, $8.25-12.22$) vs. 6.97 (95% Cl, $5.62-7.85$) he proportion of patients with a PD-L1 CPS of ≥ 5 and all randomly assigned patients completing the FACT-Ga uestionnaire was 90% or more at baseline and 80% or more at most subsequent assessments for which at least ten patients sponded (until week tog). aseline mean FACT-Ga total scores were similar between the nivolumab plus chemotherapy ($127, 6; 5D 27, 4$) and lemotherapy alone groups ($127, 6; 26.4$) for patients with a PD-L1 CPS of ≥ 5 and between the nivolumab plus chemotherapy 26.5; 28.3) and chemotherapy slone groups ($125, 6; 25.3$) for all randomly assigned patients, with an improvement from sseline in FACT-Ga total score at all on-treatment assessments. patients with a PD-L1 CPS of ≥ 2 and all randomly assigned patients, with ≥ 50 patients in each group). This sult was less than the minimally important difference of 15.1 points. sult was less than the minimally important difference of 15.2 points. sult was less than the minimally important differences for 9.5 , BR o.64 (95% Cl o.49 – 0.83)	$\begin{array}{c c c c c c c c c c c c c c c c c c c $

Adequate generation of randomisation sequence	Adequate allocation concealment	Blinding	Selective outcome reporting unlikely	Other aspects which increase the risk of bias	Risk of bias
yes	no	No, open-label	unclear ⁴	yes5	high
					First published: 10/2021 Last updated: 01/2022

Abbreviations: AE=adverse event, AJ=adjustment, ALK=anaplastic lymphoma kinase, ASCT=autologous stem cell transplant, BICR=blinded independent central review, C=comparator, cHL=classical Hodgkin lymphoma, CHMP=Committee for Medicinal Products for Human Use, CI=confidence interval, CPS=combined positive score, CRC=colorectal carcinoma, dMMR=mismatch repair deficient, DOR=duration of response, EGFR=epidermal growth factor receptor, EMA=European Medicines Agency, ESMO-MCBS= European Society of Medical Oncology – Magnitude of Clinical Benefit Scale, FACT-Ga= Functional Assessment of Cancer Therapy-Gastric, FDA=Food and Drug Administration, FM=final magnitude of clinical benefit grade, GEJC=gastro-oesophageal junction cancer, HCC=hepatocellular carcinoma, HER=human epidermal growth receptor 2, HSCT=hematopoietic stem cell transplantation, HR=hazard ratio, I=intervention, Int.=intention, MG=median gain, MPM=malignant pleural mesothelioma, MSI-H=microsatellite instability-high, n=number of patients, NSCLC= non-small cell lung cancer, OC=oesophageal cancer, ORR=overall response rate, OS=overall survival, OSCC=oesophageal squamous cell carcinoma PD=programmed cell death, PD-L1=programmed cell death ligand 1, PE=primary endpoint, PFS=progression-free survival, PM=preliminary grade, QoL=quality of life, RCC=renal cell carcinoma, SAE=serious adverse event, SCCHN=squamous carcinoma of the head and neck, ST=standard treatment, UC=urothelial carcinoma,

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⁴ CheckMate649 trial is currently ongoing; estimated study completion date is 10/2022.

⁵ The funder of the study was involved in study design, data collection, data analysis, data interpretation, and writing of the clinical study report.