







Sitc Second for Instructionary of Career ADVANCES IN Cancer IMMUNOTHERAPY^M

Society for Immunotherapy of Cancer

Approved checkpoint inhibitors in NSCLC

Drug	Approved	Indication	Dose	
Niyolumoh	2015	Metastatic Squamous NSCLC with progression after chemotherapy (2 nd line)	240 mg Q2W or 480 mg	
Nivolumab	2015	Metastatic Non-Squamous NSCLC with progression after chemotherapy (2 nd line)	Q4W	
Nivolumab + ipilimumab	2020	1 st line metastatic NSCLC with PD-L1 ≥1% and no EGFR/ALK mutations	Nivolumab 3 mg/kg Q2W + ipilimumab 1 mg/kg Q6W	
Nivolumab + ipilimumab + platinum-doublet	2020	1 st line metastatic NSCLC with no EGFR/ALK mutations	Nivolumab 360 mg Q3W + ipilimumab 1 mg/kg Q6W + 2 cycles of chemotherapy	
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Approved checkpoint inhibitors	in
NSCLC	

	וועוכמנוטוו	Dose	
2015	Metastatic NSCLC with progression after chemotherapy and PD-L1 \ge 50%		
2016	Metastatic NSCLC with progression after chemotherapy and PD-L1 \ge 1%		
2016	2016 1 st line metastatic NSCLC with PD-L1 TPS ≥ 50%		
2019	1 st line stage III NSCLC (not candidate for resection or definitive chemoradiation) and Metastatic NSCLC, with PD-L1 TPS ≥ 1% and no EGFR/ALK mutations	200 mg Q3W or 400 mg	
2017	1 st line metastatic Non-Squamous NSCLC	Q6W	
2018	1 st line metastatic Non-Squamous NSCLC with no EGFR/ALK mutations		
2018	1 st line metastatic Squamous NSCLC		
	 2015 2016 2016 2019 2019 2017 2018 2018 	2015Metastatic NSCLC with progression after chemotherapy and PD-L1 ≥ 50%2016Metastatic NSCLC with progression after chemotherapy and PD-L1 ≥ 1%20161st line metastatic NSCLC with PD-L1 TPS ≥ 50%20191st line stage III NSCLC (not candidate for resection or definitive chemoradiation) and Metastatic NSCLC, with PD-L1 TPS ≥ 1% and no EGFR/ALK mutations420171st line metastatic Non-Squamous NSCLC*20181st line metastatic Non-Squamous NSCLC with no EGFR/ALK mutations	

Approved checkpoint inhibitors in NSCLC

Drug	Approved	Indication	Dose		
Atezolizumab	2016	Metastatic NSCLC with progression after Pt- chemotherapy and targeted therapy if EGFR/ALK mutation-positive	840 mg Q2W, 1200 mg Q3W, or 1680 mg Q4W		
Atezolizumab + bevacizumab + paclitaxel + carboplatin	2018	1 st line metastatic non-squamous NSCLC with no EGFR/ALK mutations	For 4-6 cycles: atezolizumab 1200 mg Q3W + chemotherapy + bevacizumab Maintenance: 840 mg Q2W, 1200 mg Q3W, or 1680 mg Q4W		
Durvalumab	2018 Stage III NSCLC, ineligible for surgery and without progression after chemoradiation		10 mg/kg Q2W		
Atezolizumab + nab- paclitaxel + carboplatin	2019	1 st line metastatic non-squamous NSCLC with no EGFR/ALK mutations	For 4-6 cycles: atezolizumab 1200 mg Q3W + chemotherapy Maintenance: 840 mg Q2W, 1200 mg Q3W, or 1680 mg Q4W		
Atezolizumab 2020		1 st line metastatic NSCLC with PD-L1 ≥ 50% of tumor cells or ≥ 10% of immune cells with no EGFR/ALK mutations	840 mg Q2W, 1200 mg Q3W, or 1680 mg Q4W		
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ADVANCES IN Cancer WMUNOTHERAPY ^{IM}	PD-1/PD Survival)-L1 In in 2L	hibito Advar	ors In nced	cre NS	ase CLC	Over	all
	CHECKMATE 017 (nivolumab)	Nivolumab (N-135) Docetaxel (N-137)	Median Overall Survival mo (95% Cl) 9.2 (7.3–13.3) 6.0 (5.1–7.3)	1-Yr Overall S % of patients (5 42 (34–50 24 (17–3)	urvival 95% <i>CI)</i> D) 1)	No. of Deaths 86 113		
	CHECKMATE 057 (nivolumab)		Nivolumab (n = 292) 12.2 6% Cl: 0.59, 0.89); P =	Docetaxel (n = 290) 9.4 = 0.0015				
KE	YNOTE 010 (TPS ≥ 1%) (pembrolizumab)	Treatment Arm Pembro 2 mg/kg Pembro 10 mg/kg Docetaxel	Median (95% CI), mo 14.9 (10.4-NR) 17.3 (11.8-NR) 8.2 (6.4-10.7)	HR* (95% CI) 0.54 (0.38-0.77) 0.50 (0.36-0.70) 	P 0.0002 <0.0001 -	-		
Brahmer NEJM 2015 Borghaei, NEJM 2015 Herbst Lancet 2016 Rittmeyer Lancet 2016 © 2019–2020 Society for Immunotherapy of C	OAK (atezolizumab)	HR, 0.73ª (95% CI, 0.62, (P = 0.0003 Minimum follow up	0.87) = 19 months	9		ACCO		CSILC Leavy to Immunitienty of Davar



ADVANCES IN OCCUPATION AND A Approved checkpoint inhibitors in SCLC					
	Drug	Approved	Indication	Dose	
	Nivolumab	2018	Metastatic small cell lung cancer with progression on Pt-chemotherapy and one other therapy (3 rd line)	240 mg Q2W	
	Atezolizumab + carboplatin + etoposide	2019	1 st line extensive stage SCLC	For 4 cycles: atezolizumab 1200 mg + carboplatin + etoposide Q3W Maintenance: 840 mg Q2W, 1200 mg Q3W, or 1680 mg Q4W	
	Pembrolizumab	2019	Metastatic small cell lung cancer with progression on Pt-chemotherapy and one other therapy (3 rd line)	200 mg Q3W	
Durvalumab + etoposide + carboplatin/cisplatin		2020	1 st line extensive stage SCLC	Combination (EE11)0 mg durvalumab + chemotrierapy Q3W Maintenance: 1500 mg durvalumab Q4W	
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- EE11 Dosing for last row: Emily Ehlerding, 5/20/2020
- EE12 For 4 cycles: 1500 mg durvalumab Q3W + chemotherapy; Maintenance: 1500 mg durvalumab Q4W Emily Ehlerding, 5/20/2020

ADVANCES IN Concer WMUNOTHERAPY	Case Study 2
 What is the next bes A) Wait for tumo B) Start carbopla C) Start nivoluma D) Start nivoluma E) Would holf off 	t step: (more than one answer may apply) ⁻ tissue NGS. in/pemetrexed/pembrolizumab. b/ipilumumab. b/ipilumumab/carboplatin/pemetrexed on immunotherapy given this patient has an STK11 alteration
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