

Memorial Sloan Kettering Cancer Center_{TM}

ASCO 2020 Lung Cancer

Gregory J. Riely June 2020



Disclosures

- MSK receives money for research conducted by me from:
 - Novartis
 - Pfizer
 - Merck
 - Mirati
 - Roche
 - Takeda



Highlights of ASCO 2020 (and other meetings)

- New, not particularly useful, data in small cell lung cancer
- The addition of a short course chemotherapy to combination immunotherapy for upfront treatment of patients with stage IV NSCLC without an oncogenic driver ("9LA")
- MET exon 14 as a targetable oncogenic driver
- RET as a targetable oncogenic driver
- HER2 mutations as a targetable oncogenic driver
- EGFR targeted therapy in the adjuvant setting



Paradigm for treatment of Small Cell Lung Cancer Pre-2018



RR - 16% median OS - 6–8 months



Evaluating Checkpoint Inhibitors in Patients with Small Cell Lung aCncer





Carboplatin/Etoposide +/- Atezolizumab: Progression-free survival





Horn et al, NEJM 2018.

Carboplatin/Etoposide +/- Atezolizumab: Overall survival





Horn et al, NEJM 2018.

Platinum/etoposide +/- Durvalumab



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Paz-Ares, Lancet 2019

Platinum/Etoposide +/- Pembrolizumab in ES Small Cell





Rudin et al ASCO 2020/JCO 2020

Since ASCO 2020



+ Home / Drugs / Development & Approval Process | Drugs / Drug Approvals and Databases / FDA grants accelerated approval to lurbinected in for metastatic small cell lung cancer

FDA grants accelerated approval to lurbinectedin for metastatic small cell lung cancer

June 15, 2020



Lurbinectedin as second-line treatment for patients with small-cell lung cancer: a single-arm, open-label, phase 2 basket trial

José Trigo*, Vivek Subbiah*, Benjamin Besse, Victor Moreno, Rafael López, María Angeles Sala, Solange Peters, Santiago Ponce, Cristian Fernández, Vicente Alfaro, Javier Gómez, Carmen Kahatt, Ali Zeaiter, Khalil Zaman, Valentina Boni, Jennifer Arrondeau, Maite Martínez, Jean-Pierre Delord, Ahmad Awada, Rebecca Kristeleit, Maria Eugenia Olmedo, Luciano Wannesson, Javier Valdivia, María Jesús Rubio, Antonio Anton, John Sarantopoulos, Sant P Chawla, Joaquín Mosquera-Martinez, Manolo D'Arcangelo, Armando Santoro, Victor M Villalobos, Jacob Sands, Luis Paz-Ares

Platinum/etoposide



lurbinectidin

"a selective inhibitor of oncogenic transcription"



Caribbean sea squirt



Lurbinectedin as Second Line Therapy for Small Cell

	All Patients	Chemotherapy free interval <90 days	Chemotherapy free interval >90 days
Response Rate	35%	22%	45%
mDOR	5.3 months	4.7 months	6.2 months
mPFS	3.5 months	2.6 months	4.6 months
mOS	9.3 months	5.0 months	11.9 months



Trigo et al, Lancet Oncol 2020

Summary of Small Cell Lung Cancer

- Standard first-line therapy is etoposide/platinum with an ICI. The anti-PD-1/PD-L1 antibodies FDA-approved in this setting are atezolizumab and durvalumab. Pembrolizumab and nivolumab have not shown positive phase III trials.
- Lurbinectedin is a new agent for treatment of patients with small cell lung cancer that has progressed after first-line therapy.



Classification of NSCLC by biomarkers



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The Current Approach to First-Line Treatment of Patients with Advanced NSCLC



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The Immunological Synapse





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Okazaki et al, Nature Immunology 2013

Pembrolizumab vs Chemotherapy in Patients who are PD-L1 ≥ 50%





Reck et al, ESMO 2016

Pembrolizumab (anti-PD-1 Antibody) vs Chemotherapy in Patients who are PD-L1 ≥ 50%



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Reck et al, NEJM 2016

Pembrolizumab (anti-PD-1 Antibody) vs Chemotherapy in Patients who are PD-L1 ≥ 50%





Pembrolizumab is Associated with Fewer Adverse Events than Chemotherapy

Pembrolizumab Group (N = 154)		Chemotherapy Group (N=150)	
Any Grade	Grade 3, 4, or 5	Any Grade	Grade 3, 4, or 5
	number of patie	ents (percent)	
113 (73.4)	41 (26.6)	135 (90.0)	80 (53.3)
33 (21.4)	29 (18.8)	31 (20.7)	29 (19.3)
11 (7.1)	8 (5.2)	16 (10.7)	9 (6.0)
1 (0.6)	1 (0.6)	3 (2.0)	3 (2.0)
15 (9.7)	0	65 (43.3)	3 (2.0)
8 (5.2)	3 (1.9)	66 (44.0)	29 (19.3)
16 (10.4)	2 (1.3)	43 (28.7)	5 (3.3)
14 (9.1)	0	39 (26.0)	4 (2.7)
22 (14.3)	6 (3.9)	20 (13.3)	2 (1.3)
1 (0.6)	0	34 (22.7)	20 (13.3)
4 (2.6)	1 (0.6)	30 (20.0)	1 (0.7)
16 (10.4)	0	8 (5.3)	0
	Pembroliz (N: Any Grade 113 (73.4) 33 (21.4) 11 (7.1) 1 (0.6) 15 (9.7) 8 (5.2) 16 (10.4) 14 (9.1) 22 (14.3) 1 (0.6) 4 (2.6) 16 (10.4)	Pembrolizumab Group (N = 154) Any Grade Grade 3, 4, or 5 number of patie 113 (73.4) 41 (26.6) 33 (21.4) 29 (18.8) 11 (7.1) 8 (5.2) 1 (0.6) 1 (0.6) 15 (9.7) 0 8 (5.2) 3 (1.9) 16 (10.4) 2 (1.3) 14 (9.1) 0 22 (14.3) 6 (3.9) 1 (0.6) 1 (0.6) 4 (2.6) 1 (0.6)	Pembrolizumab Group (N = 154) Chemoth (N Any Grade Grade 3, 4, or 5 Any Grade number of patients (percent) number of patients (percent) 113 (73.4) 41 (26.6) 135 (90.0) 33 (21.4) 29 (18.8) 31 (20.7) 11 (7.1) 8 (5.2) 16 (10.7) 1 (0.6) 1 (0.6) 3 (2.0) 15 (9.7) 0 65 (43.3) 8 (5.2) 3 (1.9) 66 (44.0) 16 (10.4) 2 (1.3) 43 (28.7) 14 (9.1) 0 39 (26.0) 22 (14.3) 6 (3.9) 20 (13.3) 1 (0.6) 0 34 (22.7) 4 (2.6) 1 (0.6) 30 (20.0) 16 (10.4) 0 8 (5.3)



There are Immune-Related Adverse Events

Adverse Event	Pembrolizumab Group (N=154)		Chemotherapy Group (N = 150)	
	Any Grade	Grade 3, 4, or 5	Any Grade	Grade 3, 4, or 5
		number of patie	ents (percent)	
Immune-mediated				
Any	45 (29.2)	15 (9.7)	7 (4.7)	1 (0.7)
Hypothyroidism	14 (9.1)	0	2 (1.3)	0
Hyperthyroidism	12 (7.8)	0	2 (1.3)	0
Pneumonitis	9 (5.8)	4 (2.6)	1 (0.7)	1 (0.7)
Infusion reaction	7 (4.5)	0	2 (1.3)	0
Severe skin reaction	6 (3.9)	6 (3.9)	0	0
Thyroiditis	4 (2.6)	0	0	0
Colitis	3 (1.9)	2 (1.3)	0	0
Myositis	3 (1.9)	0	0	0
Hypophysitis	1 (0.6)	1 (0.6)	0	0
Nephritis	1 (0.6)	1 (0.6)	0	0
Pancreatitis	1 (0.6)	1 (0.6)	0	0
Type 1 diabetes mellitus	1 (0.6)	1 (0.6)	0	0





Randomized Trial of Chemotherapy +/- Pembrolizumab in "non-squamous" NSCLC





Randomized Trial of Chemotherapy +/-Pembrolizumab in "non-squamous" NSCLC





Gandhi et al NEJM 2018

Randomized Trial of Chemotherapy +/-Pembrolizumab in "non-squamous" NSCLC

Tumor Proportion Score of <1%





Gandhi et al NEJM 2018

Chemotherapy + Immunotherapy for NSCLC

	Histology	Improved PFS?	Improved OS?
Carboplatin, pemetrexed, pembrolizumab	Non-squam	Yes	Yes
Carboplatin, paclitaxel, bevacizumab, atezolizumab	Non-squam	Yes	Yes
Carboplatin, nab-paclitaxel, atezolizumab	Non-squam	Yes	Yes
Carboplatin, taxane, pembrolizumab	Squamous	Yes	Yes



Memorial Sloan Kettering Gandhi et al, NEJM 2018; Socinski et al, NEJM 2018; West et al, Lancet Onc 2019; Paz-Ares, NEJM 2018

What about checkpoint inhibitor combinations?





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Okazaki et al, Nature Immunology 2013

Exploring Ipi/Nivo combo instead of chemotherapy+IO



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Adapted from Peters et al, ESMO 2019

Ipi/Nivo improved OS compared with chemotherapy (w/o anti-PD-(L)1 Ab) in PD-L1 positive

Overall Survival in Patients with a PD-L1 Expression Level of 1% or More





Ipi/Nivo improved OS compared with chemotherapy (w/o anti-PD-(L)1 Ab) in PD-L1 negative

Overall Survival in Patients with a PD-L1 Expression Level of <1%





Ipi/Nivo improved OS compared with chemotherapy (w/o anti-PD-(L)1 Ab) regardless of PD-L1 status

Overall Survival in All the Patients





The caveat... less chemo doesn't mean less tox

Adverse Event	Nivolumab plı (N=	us Ipilimumab 576)	Chemot (N=!	herapy 570)
	Any Grade	Grade 3–4	Any Grade	Grade 3–4
		number of pat	ients (percent)	
Treatment-related adverse events				
All events	442 (76.7)	189 (32.8)	467 (81.9)	205 (36.0)
Reported in ≥15% of patients				
Diarrhea	98 (17.0)	10 (1.7)	55 (9.6)	4 (0.7)
Rash	98 (17.0)	9 (1.6)	30 (5.3)	0
Fatigue	83 (14.4)	10 (1.7)	108 (18.9)	8 (1.4)
Decreased appetite	76 (13.2)	4 (0.7)	112 (19.6)	7 (1.2)
Nausea	57 (9.9)	3 (0.5)	206 (36.1)	12 (2.1)
Anemia	22 (3.8)	8 (1.4)	188 (33.0)	66 (11.6)
Neutropenia	1 (0.2)	0	98 (17.2)	54 (9.5)
Treatment-related serious adverse events	141 (24.5)	106 (18.4)	79 (13.9)	61 (10.7)
Treatment-related adverse events leading to discontinua- tion†	104 (18.1)	71 (12.3)	52 (9.1)	28 (4.9)



So, our options...

PD-L1	
High (TPS > 50%, TC3/IC3)	pembrolizumab atezolizumab
Low (TPS >1%)	pembrolizumab
Any	carboplatin, pemetrexed, pembrolizumab* carboplatin, paclitaxel, pembrolizumab carboplatin, nab-paclitaxel, atezolizumab* carboplatin, paclitaxel, bevacizumab, atezolizumab* ipilimumab, nivolumab

*regimens for non-squamous NSCLC



Studying chemotherapy + ipilimumab/nivolumab



Interim database lock: October 3, 2019; minimum follow-up: 8.1 months for OS and 6.5 months for all other endpoints. Updated database lock: March 9, 2020; minimum follow-up: 12.7 months for OS and 12.2 months for all other endpoints.

•NCT03215706; ^bDetermined by the PD-L1 IHC 28-8 pharmDx assay (Dako); ^cPatients unevaluable for PD-L1 were stratified to PD-L1 < 1% and capped to 10% of all randomized patients; dNSQ: pemetrexed + cisplatin or carboplatin; SQ: paclitaxel + carboplatin; ^cHierarchically statistically tested.

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Studying chemotherapy + ipilimumab/nivolumab Overall Survival





Studying chemotherapy + ipilimumab/nivolumab Overall Survival



Minimum follow-up: 12.7 months.

*Subsequent systemic therapy was received by 30% of patients in the NIVO + IPI + chemo arm and 39% of patients in the chemo arm; subsequent immunotherapy was received by 6% and 28%, and subsequent chemotherapy by 29% and 22%, respectively; ^bSubsequent systemic therapy was received by 31% of patients in the NIVO + IPI + chemo arm and 44% of patients in the chemo arm; subsequent immunotherapy was received by 4% and 35%, and subsequent chemotherapy by 30% and 24% of patients, respectively 10 patients in the chemo arm; subsequent immunotherapy was received by 4% and 35%, and subsequent chemotherapy by 30% and 24% of patients, respectively 10 patients in the chemo arm; subsequent immunotherapy was received by 4% and 35%.



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Studying chemotherapy + ipilimumab/nivolumab Overall Survival by PD-L1 status




So, our options...

PD-L1	
High (> 50% , TC3/IC3)	pembrolizumab atezolizumab
Low (TPS >1%)	pembrolizumab
Any (squamous)	carboplatin, paclitaxel, pembrolizumab ipilimumab/nivolumab carboplatin paclitaxel, ipilimumab/nivolumab
Any (non-squamous)	carboplatin, pemetrexed, pembrolizumab carboplatin, paclitaxel, bevacizumab, atezolizumab carboplatin, nab-paclitaxel, atezolizumab ipilimumab/nivolumab carboplatin, pemetrexed, ipilimumab/nivolumab



The Current Approach to First-Line Treatment of Patients with Advanced NSCLC



The Current Approach to First-Line Treatment of Patients with Advanced NSCLC



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Molecular Subtypes of Lung Cancer



Key Subtypes EGFR ALK ROS1 BRAF NTRK



Molecular Subtypes of Lung Cancer



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MET Exon 14 Alterations in NSCLC





MET exon 14 alterations are associated with high MET expression





Paik et al, ASCO 2015

Crizotinib in Patients with MET Exon 14 Altered NSCLC



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Drilon et al, Nature Medicine 2020

Capmatinib in MET exon 14 skipping



Study methodology:

- · Cohort 4 and 5b are each analyzed separately and have independent statistical hypothesis
- Primary (ORR) and key secondary (DOR) endpoints based on BIRC including 2 parallel independent radiology reviewers (+ additional one for adjudication)
- Efficacy endpoints based on BIRC and investigator assessment per RECIST 1.1

Data cut off: April 15, 2019; median duration of follow-up for DOR: 9.7 months in Cohort 4 and 9.6 months in Cohort 5b Additional data on *MET* mutated patients will be generated in Cohort 6 (2L; N~30) and Cohort 7 (1L; N~27)

Wolf et al, ASCO 2019 ASCO 2020

Capmatinib in MET exon 14 NSCLC



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Wolf et al, ASCO 2019, Capmatinib prescribing information, accessed May 2020



+ Home / Drugs / Development & Approval Process | Drugs / Drug Approvals and Databases / FDA grants accelerated approval to capmatinib for metastatic non-small cell lung cancer

FDA grants accelerated approval to capmatinib for metastatic non-small cell lung cancer

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Drug Approvals and Databases

On May 6, 2020, the Food and Drug Administration granted accelerated approval to



Tepotinib in Patients with MET exon 14 NSCLC



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Paik et al, ASCO 2020/NEJM 2020

Molecular Subtypes of Lung Cancer



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Selpercatinib in patients with RET positive NSCLC



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Drilon et al, WCLC 2019

Selpercatinib in patients with RET positive NSCLC



Progression-free survival



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Drilon et al, WCLC 2019

Targeted Therapies in Metastatic NSCLC

- There are now targeted therapies available for:
 - EGFR
 - ALK
 - ROS1
 - BRAF
 - RET
 - MET exon 14
 - RET
 - NTRK

You need to test for these or you won't find them!

Newly approved drugs:

- Capmatinib for MET exon 14
- Selpercatinib for RET

There are Molecular Subtypes of Lung Cancer



Key Subtypes EGFR ALK ROS1 **BRAF** RET MET Exon14 NTRK



Trastuzumab Deruxtecan







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Tsurutani et al, WCLC 2018

ORIGINAL ARTICLE

Trastuzumab Deruxtecan in Previously Treated HER2-Positive Breast Cancer

S. Modi, C. Saura, T. Yamashita, Y.H. Park, S.-B. Kim, K. Tamura, F. Andre, H. Iwata, Y. Ito, J. Tsurutani, J. Sohn, N. Denduluri, C. Perrin, K. Aogi,
E. Tokunaga, S.-A. Im, K.S. Lee, S.A. Hurvitz, J. Cortes, C. Lee, S. Chen, L. Zhang, J. Shahidi, A. Yver, and I. Krop, for the DESTINY-Breast01 Investigators*



Trastuzumab Deruxtecan in Previously Treated Her2 *amplified* <u>Breast</u> Cancer



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Modi et al NEJM 2020

Trastuzumab Deruxtecan in Previously Treated Her2 amplified Breast Cancer





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Modi et al NEJM 2020

Trastuzumab Deruxtecan in Patients with Her2 <u>Mutated NSCLC</u>

	Patients (N = 42)
Confirmed ORR by ICR	61.9% (n = 26) (95% Cl, 45.6%-76.4%)
CR	2.4% (n = 1)
PR	59.5% (n = 25)
SD	28.6% (n = 12)
PD	4.8% (n = 2)
Not evaluable	4.8% (n = 2)
Disease control rate	90.5% (95% Cl, 77.4%-97.3%)
Duration of response, median	Not reached (95% CI, 5.3 months-NE)
PFS, median	14.0 mo (95% Cl, 6.4-14.0 months)





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 $n = 39^{a}$

Smit et al, ASCO 2020

Trastuzumab Deruxtecan in Patients with Her2 <u>Mutated NSCLC</u>

AEs of Special Interest: Interstitial Lung Disease (ILD)

	All Patients (N = 42)					
	Grade					Any Grade/
n (%)	1	Grade 2	Grade 3	Grade 4	Grade 5	Total
Interstitial lung disease	0 ^a	5 (11.9)	0	0	0	5 (11.9)

- Median time to onset of investigator-reported ILD was at 86 days (range, 41-255 days)
- 4 patients had drug withdrawn and 1 had drug interrupted
- All patients received steroid treatment
- 2 patients recovered, 1 recovered with sequelae, 1 was recovering, and 1 had not recovered by data-cutoff
- No grade 5 ILD was observed in this cohort

Targeted Therapies in Metastatic NSCLC

- There are now targeted therapies available for:
 - EGFR
 - ALK
 - ROS1
 - BRAF
 - RET
 - MET exon 14
 - RET Perhaps Her2 mutations will be added

Newly approved drugs:

Selpercatinib for RET

Capmatinib for MET exon 14

– NTRK

You need to test for these or you won't find them!

General Overview of NSCLC Treatment



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Osimertinib vs Gefitinib/Erlotinib Randomized Trial



- Primary endpoint: PFS
- Secondary endpoints: response rate, duration of response, disease control rate, depth of response, overall survival, patient reported outcomes, safety

Soria et al, NEJM 2017

Osimertinib vs Gefitinib/Erlotinib as first treatment for NSCLC Progression-Free Survival



Soria et al, NEJM 2017

Osimertinib vs Gefitinib/Erlotinib as first treatment for NSCLC - Overall Survival



Ramalingam et al, NEJM 2019

1st line Treatment for Patients with EGFR mutant NSCLC

SENSITIZING EGFR MUTATION POSITIVE^{jj}

FIRST-LINE THERAPY⁰⁰





Outcomes by pathologic stage for NSCLC (v8)

Surgically resected patients, 1999 – 2010





Overall Survival

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Goldstraw, et al. JThorac Oncol. 2015

Osimertinib vs placebo after surgery for Stage I-III NSCLC

Patients with completely resected stage* IB, II, IIIA NSCLC, <u>with or without</u> <u>adjuvant</u>chemotherapy[†]

Key inclusion criteria: ≥18 years (Japan / Taiwan: ≥20) WHO performance status 0 / 1 Confirmed primary non-squamous NSCLC Ex19del / L858R[‡] Brain imaging, if not completed pre-operatively Complete resection with negative margins[§] Max. interval between surgery and randomization:

- 10 weeks without adjuvant chemotherapy
- 26 weeks with adjuvant chemotherapy

Endpoints

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- Primary: DFS, by investigator assessment, in stage II/IIIA patients; designed for superiority under the assumed DFS HR of 0.70
- Secondary: DFS in the overall population¹¹, DFS at 2, 3, 4, and 5 years, OS, safety, health-related quality of life
- Following IDMC recommendation, the study was unblinded early due to efficacy; here we report an unplanned interim analysis
- At the time of unblinding the study had completed enrollment and all patients were followed up for at least 1 year

Planned treatment duration: 3 years Osimertinib Treatment continues until: 80 mg, once daily Disease recurrence Treatment completed Stratification by: Discontinuation criterion met Randomization stage (IB vs II vs IIIA) 1:1 EGFRm (Ex19del vs L858R) (N=682) Follow up: race (Asian vs non-Asian) • Until recurrence: Week 12 and 24, then every 24 weeks to 5 years, then yearly once daily • After recurrence: every 24 weeks for 5 years, then yearly

Osimertinib vs placebo after surgery for Stage I-III NSCLC Primary endpoint: DFS in patients with stage II/IIIA disease





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Osimertinib vs placebo after surgery for Stage I-III NSCLC DFS by stage

	Stage IB	Stage II	Stage IIIA	
2 year DFS rate, % (95% CI)				
– Osimertinib	87 (77, 93)	91 (82, 95)	88 (79, 94)	
– Placebo	73 (62, 81)	56 (45, 65)	32 (23, 42)	
Overall HR (95% CI)	0.50 (0.25, 0.96)	0.17 (0.08, 0.31)	0.12 (0.07, 0.20)	

- In the osimertinib arm, 2 year DFS rates were consistent across stages IB, II, and IIIA disease
- Maturity (overall population: stage IB / II / IIIA) 29%: osimertinib events 12%, placebo events 46%



Osimertinib vs placebo after surgerv for Stage I-III NSCLC



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Osimertinib vs placebo after surgery for Stage I-III NSCLC

All causality adverse events (≥10% of patients)

Median duration of exposure: osimertinib: 22.3 months (range 0 to 43), placebo: 18.4 months (range 0 to 48)





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Erlotinib as Adjuvant Therapy (2 years)





Pennell et al, JCO 2018
Questions about adjuvant (post-operative) osimertinib?

- Which is the best population to received?
- Does it cure people or delay progression?
- Does that matter?
- Will it improve overall survival?



Conclusions

- Immune Checkpoint Inhibitor + platinum/etoposide remain the standard of care for patients with extensive stage small cell lung cancer
- A short course chemotherapy with ipilimumab/nivolumab is another option for patients with stage IV NSCLC without an oncogenic driver
- MET exon 14 is a targetable oncogenic driver with treatment options
- HER2 mutations as a targetable oncogenic driver with available treatment options
- We can now consider EGFR targeted therapy in the adjuvant setting



11%





Annals of Oncology Available online 17 June 2020 In Press, Journal Pre-proof ⑦



COVID-19 in patients with lung cancer

Jia Luo ^{1, #}, Hira Rizvi ^{2, #}, Isabel R. Preeshagul ¹, Jacklynn V. Egger ², David Hoyos ³, Chaitanya Bandlamudi ⁴, Caroline G. McCarthy ², Christina J. Falcon ², Adam J. Schoenfeld ^{1, 5}, Kathryn C. Arbour ^{1, 5}, Jamie E. Chaft ^{1, 5}, Robert M. Daly ^{1, 5}, Alexander Drilon ^{1, 5}, Juliana Eng ¹, Afsheen Iqbal ¹, W. Victoria Lai ^{1, 5}, Bob T. Li ^{1, 5}, Piro Lito ^{1, 5} ... Matthew D. Hellmann ^{1, 5, 7} A

11%

During the peak of COVID-19 in NYC, among our patients with lung cancer, just 11% of the deaths were due to COVID-19. Vast majority died of complications of lung cancer



Osimertinib in EGFR exon 20 insertion NSCLC



- **DCR**: 14/17, 82%
- mPFS: 9.6 mo
 (95% Cl, 4.1, 10.7)
- mDOR: NA (95% Cl, 4.7, NA)





Piotrowska et al, ASCO 2020

Osimertinib in EGFR exon 20 insertion NSCLC





Piotrowska et al, ASCO 2020