Clinical Updates:
Practice Changing Data
From 2023 –
Breast & Lung Cancers

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# **Disclosures**

No financial relationships to disclose.



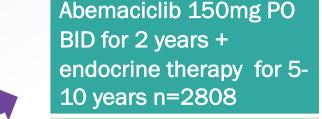


# Abemaciclib for adjuvant breast cancer

#### monarchE

High risk hormone positive breast cancer

- 4 positive lymph nodes or
- 1-3 positive lymph nodes + grade 3or
- 1-3 positive lymph nodes + >5cm tumor



4y iDFS 85.8% (84.2 - 87.3)



Endocrine therapy for 5-10 years n=2829 4y iDFS 79.4% (77.5-81.1)

Absolute difference 6.4% HR 0.664 (95% CI 0.578-0.762)

Johnston, Stephen R D et al. The Lancet Oncology, Volume 24, Issue 1, 77 – 90: Abemaciclib plus endocrine therapy for hormone receptor-positive, HER2-negative, node-positive, high-risk early breast cancer (monarchE): results from a preplanned interim analysis of a randomized, open-label, phase 3 trial





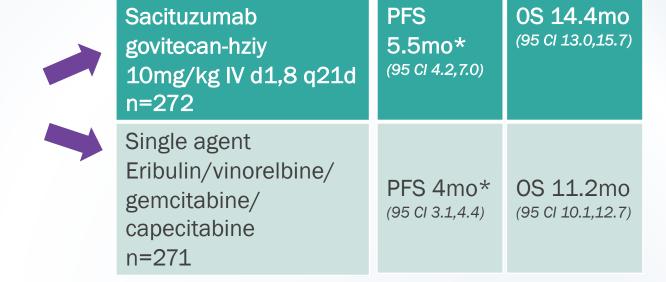


# Sacituzumab govitecan-hziy in metastatic TNBC and HR+ breast cancer

#### TROPICS-02

Hormone positive HER2 negative mBC

- Received prior endocrine therapies
- Received 2 prior chemotherapies
- Previously had a taxane/CDKi



HR 0.661 (95% CI 0.529-0.826)p=0.0003

Rugo, Hope S et al. The Lancet 2023

Overall survival with sacituzumab govitecan in hormone receptor-positive and human epidermal growth factor receptor 2-negative metastatic breast cancer (TROPiCS-02): a randomized, open-label, multicentre, phase 3 trial







# Elacestrant for ER positive HER2 negative breast cancer

#### **EMERALD**

Hormone positive HER2 negative mBC

- 478 patients of which 228 mESR1
- Received 1-2 prior therapies
- Previously had a CDKi
- ESR1 mutational status was determined by blood circulating tumor deoxyribonucleic acid (ctDNA) using the Guardant360 CDx assay
  - > limited to ESR1 missense mutations in the ligand binding domain.



Elacestrant 345mg PO daily

n=239

Single agent Fulvestrant or Al n=239 PFS

3.8mo\* (95 Cl 2.2,7.3)

PFS 1.9mo\* (95 Cl 1.9,2.1)

HR 0.55 (95% CI 0.39-0.77)p=0.0005

Bardia A, Aftimos P, Bihani T, et al. EMERALD: Phase III trial of elacestrant (RAD1901) vs endocrine therapy for previously treated ER+ advanced breast cancer. Future Oncol. 2019;15(28):3209-3218. doi:10.2217/fon-2019-0370







# Pembrolizumab in Early-stage NSCLC

#### KEYNOTE- 091

STAGE IB, II, IIIA NSCLC

- 1177 patients (1010 received adj plat)
- No neoadjuvant radiotherapy /chemotherapy
- Stratified by adjuvant chemo status



Pembrolizumab 200mg q 21 for 17cy n=506 DFS 58.7 mo CI (39.2-NR)



Placebo q 21 for 17cy n=504 DFS 34.9mo ci (28.6-NR)

HR 0.73 (95% CI 0.60-0.89)

In pts with PD-L1 TPS  $\geq$ 50% (pembrolizumab, n = 143; placebo, n = 141), median DFS was NR in both treatment arms (HR, 0.80 [95% CI, 0.54–1.20])

O'Brien et al Journal of Clinical Oncology 2023 41:16\_suppl, 8520-8520

Pembrolizumab vs placebo for early-stage non—small-cell lung cancer after resection and adjuvant therapy: Subgroup analysis of patients who received adjuvant chemotherapy in the phase 3 PEARLS/KEYNOTE-091 study.

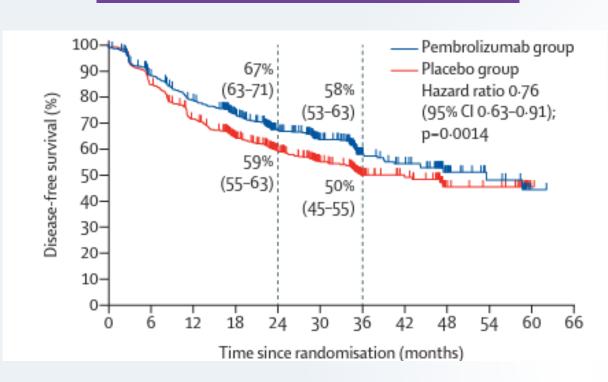




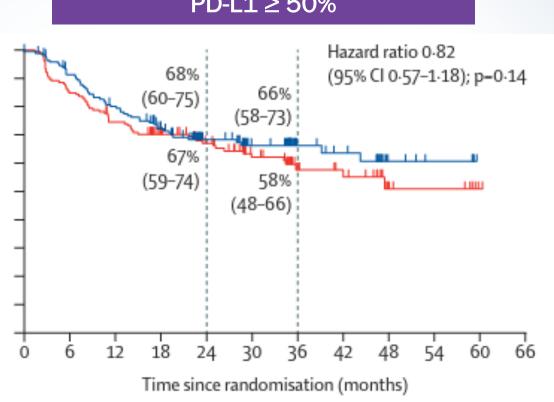


### Disease-free survival

#### Overall population



#### PD-L1 ≥ 50%



PEMBROLIZUMAB IS A STANDARD OF CARE OPTION FOR RESECTED NSCLC (IRRESPECTIVE OF PD-L1) AFTER CHEMOTHERAPY

O'Brian, Lancet Oncol 2022





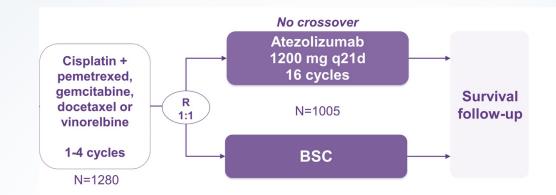


# Atezolizumab in Stage IB-IIIA Non small cell lung cancer NSCLC

## IMPOWER 010

STAGE IB, II, IIIA NSCLC

- **1280 patients** (1005 randomized)
- Tissue available for PD-L1 testing
- Primary Endpoint DFS



#### **Primary endpoints**

- Investigator-assessed DFS tested hierarchically:
  - PD-L1 TC ≥1% (per SP263) stage II-IIIA population
  - · All-randomized stage II-IIIA population
  - ITT population (stage IB-IIIA)

#### **Key secondary endpoints**

- · OS in ITT population
- DFS in PD-L1 TC ≥50% (per SP263) stage II-IIIA population
- 3-y and 5-y DFS in all 3 populations

Wakelee, ASCO Meeting 2021; Felip, Lancet 2021; Felip, IASLC 2022

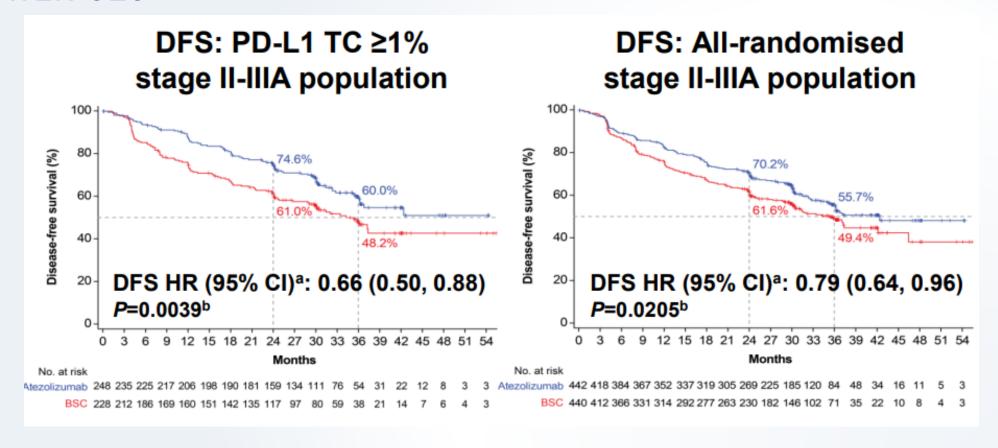






# Atezolizumab in Stage IB-IIIA Non small cell lung cancer NSCLC

#### **IMPOWER 010**



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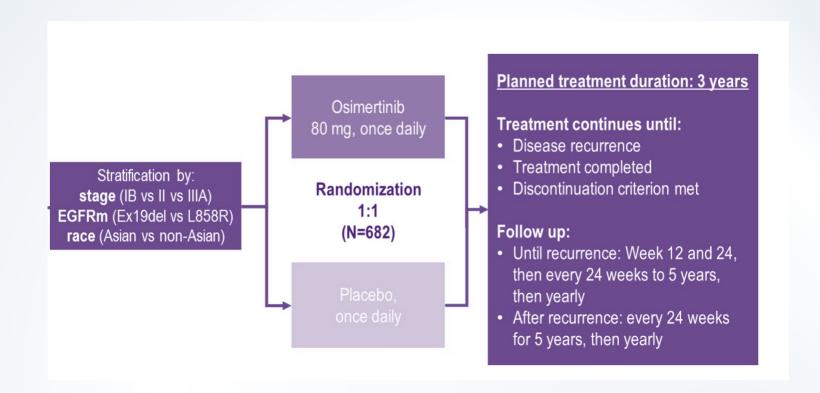


# Osimertinib for EGFR mutant adjuvant therapy

#### **ADAURA** trial

STAGE IB, II, IIIA NSCLC

- Fully resected
- No neoadjuvant radiotherapy /chemotherapy
- Stratified by EGFR mutation



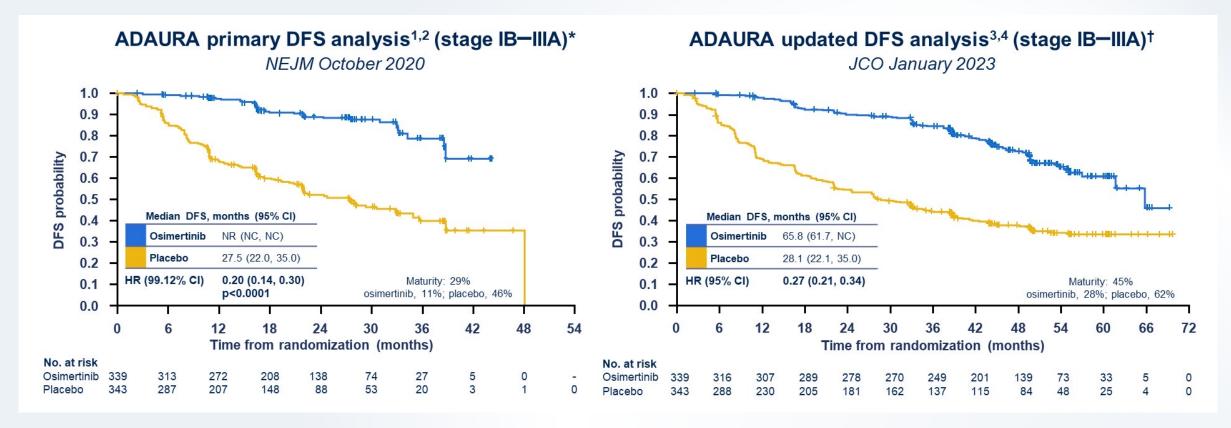
Wu, NEJM 2020; Tsuboi, ESMO 2022; Herbst, JCO 2023







## Disease-free survival



ADJUVANT OSIMERTINIB IS THE STANDARD OF CARE FOR RESECTED IB-IIIA NSCLC (EGFR+)

Wu, NEJM 2020; Tsuboi, ESMO 2022; Herbst, JCO 2023







#### Conclusions

#### **Breast Cancer 2023**

Abemaciclib is the standard of care for High-risk hormone positive Breast cancer

New approval for sacituzumab govitecan HZIY in hormone positive metastatic breast cancer

Elacestrant is approved for ESR1 mutated Hormone positive metastatic breast cancer

## Lung Cancer 2023

Adjuvant chemotherapy followed by osimertinib x 3 years is the standard of care for resected stage IB-IIIA NSCLC EGFR+

Adjuvant chemotherapy followed by atezolizumab x 12 months (if PD-L1+) is a standard of care option for resected stage IB-IIIA NSCLC (higher benefit in PD-L1 $\geq$  50%)

Adjuvant chemotherapy followed by pembrolizumab x 12 months (regardless of PD-L1 expression) is a standard of care option for resected stage IB-IIIA NSCLC (low benefit PD-L1 <1%)



