

A large, stylized orange grid pattern resembling a globe or a network, composed of thick, curved lines that intersect to form a grid of irregular shapes. The pattern is centered and occupies most of the background.

# Perspectives on *EGFR*-mutant and wildtype NSCLC: Tailoring treatment advances in late-stage disease

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Clinical summary for Module 2: *EGFR*-wildtype NSCLC

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## Advances in *EGFR*-wildtype NSCLC to address unmet needs

### Research to focus on effective therapies after first-line treatment



*“Only about 50% of patients will respond to first-line treatment and nearly all patients will relapse and have disease progression at some point. This is where the real unmet need is: options for patients who progress after immunotherapy are really limited.”*

### Faculty and topics

**Dr Helena Yu, CD**

presented the key clinical trials that are aiming to address unmet needs in patients with metastatic *EGFR*-wildtype NSCLC



### Key areas for research



#### Novel combinations

- Dual checkpoint inhibition to help enhance the immune response<sup>1</sup>
- Combining targeted therapy with immunotherapy<sup>1</sup>



#### Novel treatments

- Novel immunotherapies, e.g. anti-LAG3 and anti-TIGIT<sup>2</sup>
- Novel ADCs,<sup>3</sup> e.g. datopotamab deruxtecan<sup>4</sup> and sacituzumab govitecan<sup>5</sup>



#### Novel strategies

- Cellular therapy, e.g. TIL and CAR T-cell therapy<sup>2</sup>
- Cancer vaccines, e.g. ATL001 and GRT-C901<sup>6</sup>

### Key takeaways for ongoing research

- What other medications can be partnered with immunotherapy to improve efficacy in the first-line setting<sup>7</sup>
- ADCs are a key focus for research in the second-line setting, particularly understanding the biomarker directed/agnostic approach for patient selection<sup>7</sup>

## EGFR-wildtype NSCLC: Key clinical trial data in the first line

### Chemoimmunotherapy: 5-year outcomes

#### Phase III: **CheckMate 9LA**<sup>8</sup> Nivolumab + ipilimumab + ChT vs ChT

- Nivolumab + ipilimumab + ChT **demonstrated continued OS benefit** vs ChT in all patients (HR 0.73; 95% CI 0.62–0.85)
- Clinical outcomes favoured triplet therapy vs ChT alone **across tumour PD-L1 expression and histology subgroups**
- **Higher incidence of grade 3 or 4 TRAEs** in the **triplet therapy group** vs ChT alone but these were consistent with prior reports; no new safety signals were identified

#### Phase III: **POSIEDON**<sup>9</sup> Durvalumab + ChT ± tremelimumab vs durvalumab + ChT vs ChT

- Adding limited course tremelimumab to durvalumab + ChT **demonstrated durable long-term OS benefit** (HR 0.76; 95% CI 0.64–0.89)
- OS benefit observed **regardless of PD-L1 expression** but more pronounced in patients with NSQ vs SQ histology
- **Higher incidence of serious TRAEs** in the **triplet therapy group** vs doublet or ChT alone but extended follow-up revealed no new safety signals

### Faculty and topics

**Dr Aaron Lisberg**  
presented the key clinical trial results for patients with *EGFR*-wildtype NSCLC in both the first- and second-line setting



### Subgroup analysis<sup>9</sup>

OS benefit of tremelimumab + durvalumab + ChT maintained in hard-to-treat patients with NSQ *EGFR/ALK*-wildtype metastatic NSCLC with ***STK11* and/or *KEAP1* and/or *KRAS* mutations**

This patient population is being further explored in the ongoing phase IIIb **TRITON** trial<sup>9</sup>

## Novel agents for *EGFR*-wildtype NSCLC: Key clinical trial data in the first and second line

### First-line

### Second-line

Phase III:  
**HARMONi-2**<sup>10</sup>  
Ivonescimab  
vs pembro

Phase II:  
**EVOKE-02**<sup>5</sup>  
SG + pembro  
± Pt-ChT

Phase Ib:  
**TROPION-Lung02**<sup>4</sup>  
Dato-DXd + pembro  
± Pt-ChT

Phase III:  
**EVOKE-01**<sup>11</sup>  
SG  
vs docetaxel

Phase III:  
**TROPION-Lung01**<sup>12</sup>  
Dato-DXd  
vs docetaxel

Phase III:<sup>13</sup>  
**Pragmatica-Lung**<sup>14</sup>  
Ramucirumab +  
pembro vs SoC

**Primary endpoint (PFS) met at preplanned interim analysis**

**mPFS (months)**  
Ivonescimab: 11  
Pembrolizumab: 6  
(HR 0.51; 95% CI 0.38–0.69)

**PFS benefit of ivonescimab vs pembro broadly consistent across pre-specified subgroups\***

Safety profile of ivonescimab consistent with prior studies and well tolerated

**SG + pembro showed promising activity regardless of histology**

**ORR (%) NSQ population**  
PD-L1 TPS ≥50%: 67  
PD-L1 TPS <50%: 37

**ORR (%) SQ population**  
PD-L1 TPS ≥50%: 73  
PD-L1 TPS <50%: 54

Median DoR not reached in either cohort

Safety profile manageable and consistent with known safety profile for each agent

**Dato-DXd + pembro ± Pt-ChT demonstrated durable antitumor activity regardless of PD-L1 expression**

**ORR (%) all patients**  
Doublet: 52 | Triplet: 56

**ORR (%) PD-L1 TPS ≥50%**  
Doublet: 100 | Triplet: 53

**ORR (%) PD-L1 TPS <50%**  
Doublet: 46 | Triplet: 56

Tolerability as expected for known safety profiles of each agent; no new safety signals observed

**Statistical significance not met but OS numerically improved with SG vs docetaxel across histologies**

**mOS (months)**  
SG: 11 | Docetaxel: 10

**mPFS (months)**  
SG: 4 | Docetaxel: 4

**ORR (%)**  
SG: 14 | Docetaxel: 18

Incidence of high-grade TEAEs and TEAEs leading to discontinuation were lower with SG than docetaxel

**Dato-DXd demonstrated clinically meaningful benefit vs docetaxel in NSQ NSCLC**

**Interim mOS (months)**  
Dato-DXd: 13 | Docetaxel: 11

**mPFS (months)**  
Dato-DXd: 6 | Docetaxel: 4

**ORR (%)**  
Dato-DXd: 31 | Docetaxel: 13

Safety profile manageable and consistent with the overall study population in TROPION-Lung01

**Ongoing registration-intent trial (follow-on from Lung-MAP S1800A)**<sup>14</sup>

Eligible patients previously received PD-1/PD-L1 inhibitor therapy for ≥84 days and platinum-based therapy<sup>14</sup>

Primary outcome: OS<sup>14</sup>

Estimated enrolment: 700<sup>14</sup>

Primary completion: March 2025<sup>13</sup>

\*SQ NSCLC, NSQ NSCLC, with TPS 1–49%, with liver metastases and with brain metastases.

## EGFR-wildtype NSCLC: Clinical decision-making

### Evolving therapeutic options in advanced/metastatic EGFR-wildtype NSCLC



*“There is much room for improving the prognosis of our patients affected by non-oncogene-addicted NSCLC. Docetaxel has long been unsurpassed in the post-chemoimmunotherapy setting, so let’s hope the tsunami of ADCs will continue to bring new hope for the treatment of patients with NSCLC.”*

### Faculty and topics

**Dr Sara Pilotto**

presented a clinical case and discussed the current treatment options, whilst highlighting the ongoing unmet medical needs



#### Tumour characteristics<sup>15</sup>

- Tumour burden
- Metastatic sites
- Histology
- PD-L1 expression
- Mutational status



#### Patient factors<sup>15</sup>

- Age, sex, PS
- Comorbidities
- Smoking status
- Patient preference



#### Treatment<sup>15</sup>

- Approved/reimbursed
- Number of cycles
- Tolerability/QoL
- Duration of response
- Oncologist’s experience

### Key takeaways<sup>15</sup>

- **First-line treatment:** Based on tumour characteristics, patient factors and treatments approved/available via clinical trial
- **Second-line treatment:** Based on type of progression, patient factors, reliability of molecular profiling at baseline, treatments approved/available via clinical trial

DIAGNOSED\*

PR RECIST

PD RECIST

PD RECIST

OS 9 MONTHS

Nov  
2023

Jan  
2024

Mar  
2024

Jun  
2024

Cisplatin-pemetrexed-pembro × 4  
→ Pemetrexed-pembro<sup>†</sup> × 2

Docetaxel

## Abbreviations and references

### Abbreviations

ADC, antibody–drug conjugate; ALK, anaplastic lymphoma kinase; CAR, chimeric antigen receptor; ChT, chemotherapy; CI confidence interval; dato-DXd, datopotamab deruxtecan; DoR, duration of response; ECOG, Eastern Cooperative Oncology Group; EGFR, epidermal growth factor receptor; HR, hazard ratio; KEAP1, kelch like ECH associated protein; KRAS, Kirsten rat sarcoma viral oncogene homolog; LAG3, lymphocyte activation gene 3; m, median; NSCLC, non-small cell lung cancer; NSQ, non-squamous; ORR, objective response rate; OS, overall survival; PD, progressive disease; PD-1, programmed cell death protein-1; PD-L1, programmed death ligand-1; pembro, pembrolizumab; PFS, progression-free survival; PR, partial response; PS, performance status; Pt-ChT, platinum-based chemotherapy; QoL, quality of life; RECIST, Response Evaluation Criteria in Solid Tumours; SG, sacituzumab govitecan; SoC, standard of care; SQ, squamous; STK11, serine/threonine kinase 11; TEAE, treatment-emergent adverse event; TIGIT, T cell immunoreceptor with Ig and ITIM domains; TIL, tumour-infiltrating T-lymphocyte; TPS, tumour proportion score; TRAE, treatment-related adverse event.

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