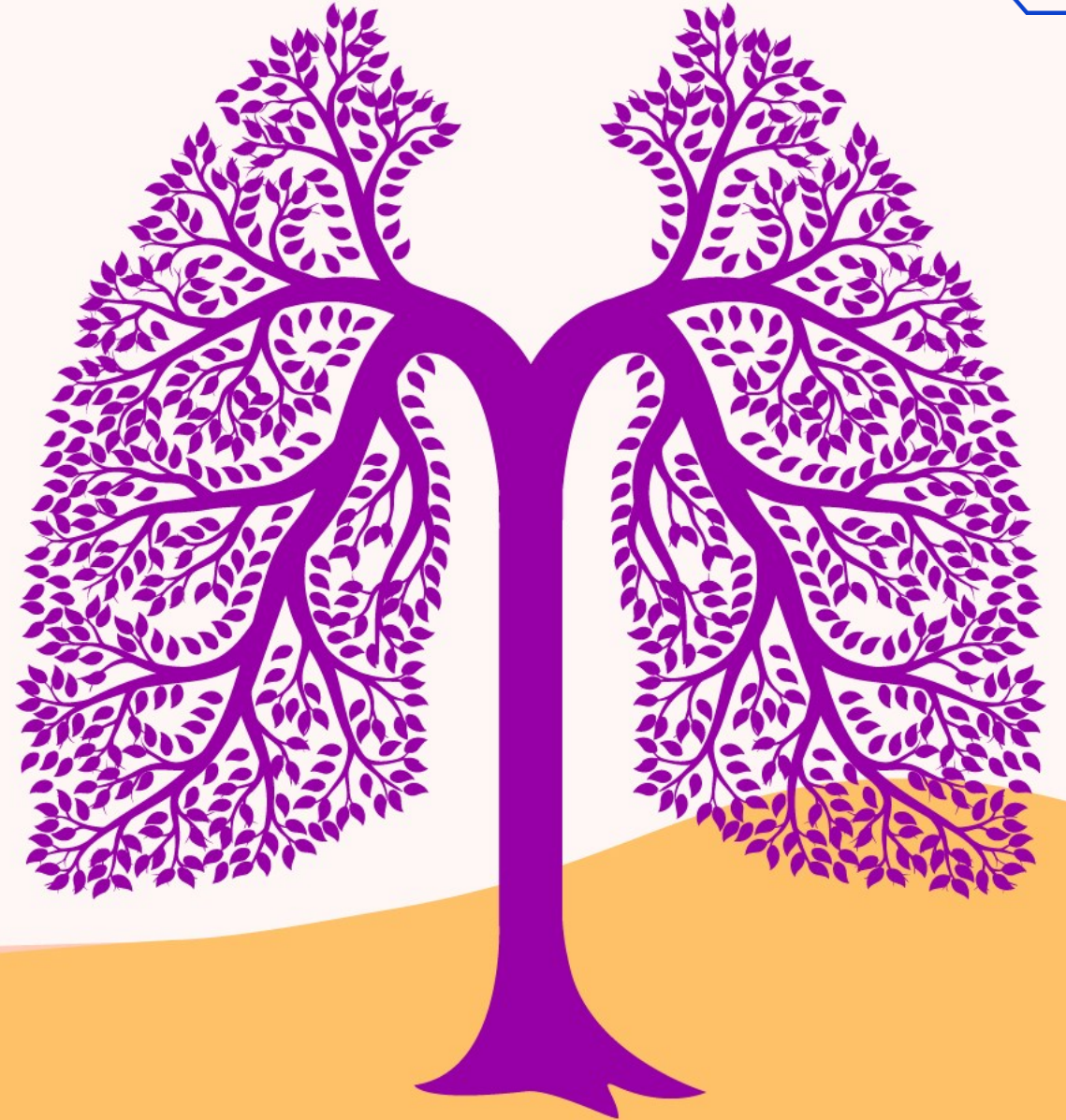


ESMO 2023 Industry Satellite Symposium

# Redefining Lung Cancer Together: A New Era for Patients



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- The information contained herein may refer to the use of products for indications other than those approved and/or listed in the Summary of Product Characteristics or relating to molecules currently undergoing experimental trials. The issues addressed are not meant to suggest that the product be employed for indications other than those authorised



# Disclosures

**Stephen V Liu:** advisory board/consultancy for AbbVie, Amgen, AstraZeneca, Boehringer-Ingelheim, Bristol Myers Squibb, Catalyst, Daiichi Sankyo, Eisai, Elevation Oncology, Genentech/Roche, Gilead, Guardant Health, Janssen, Jazz Pharmaceuticals, Merck, Merus, Mirati, Novartis, Regeneron, Sanofi, Takeda, and Turning Point Therapeutics; research grants (to institution) from AbbVie, Alkermes, Elevation Oncology, Ellipses, Genentech, Gilead, Merck, Merus, Nuvalent, RAPT, and Turning Point Therapeutics; member of Data Safety Monitoring Board for Candel Therapeutics

**Nasser Altorki:** research grants from AstraZeneca and Janssen; honoraria from Merck, Regeneron, and Roche

**Lara Pijuan:** consulting fees and honoraria from AstraZeneca, Janssen, Merck/MSD, and Roche

**Martin Reck:** honoraria from Amgen, AstraZeneca, BeiGene, Bristol Myers Squibb, Boehringer Ingelheim, Daiichi Sankyo, GlaxoSmithKline, Janssen, Lilly, Medscape, Merck Serono, Mirati Therapeutics, MSD, Novartis, Pfizer, PharmaMar, Regeron, Roche/Genentech, Sanofi and Takeda; speakers' bureau for AstraZeneca, BMS, Boehringer Ingelheim, Daiichi Sankyo, GSK, Lilly, Merck Serono, Mirati, MSD, Pfizer, Roche/Genentech, Sanofi, and Takeda; research funding (to institution) from Boehringer Ingelheim, and Bristol Myers Squibb; member of Data Safety Monitoring Board for Daiichi Sankyo, and Sanofi

**Alba Silverio Pons:** consultancy for Roche





Meeting Chair

**Stephen V Liu**

Georgetown University  
Washington DC, USA

Welcome and introduction



# Symposium faculty



**Stephen V Liu (Chair)**

Georgetown University  
Washington DC, USA



**Nasser Altorki**

Weill Cornell Medicine  
New York, NY, USA



**Lara Pijuan**

Hospital Universitari de Bellvitge  
Barcelona, Spain



**Martin Reck**

LungenClinic  
Großhansdorf, Germany



**Alba Silverio Pons**

Vall d'Hebron Institute of Oncology (VHIO)  
Barcelona, Spain



# Agenda

## **Welcome and introduction**

Stephen V Liu

## **Optimising the patient journey: from lung cancer detection to biomarker testing**

Stephen V Liu, Lara Pijuan

## **Evolving treatment decisions in resectable NSCLC**

Martin Reck, Nasser Altorki

## **A look at the patient journey through the lens of the nurse**

Alba Silverio Pons

## **Panel discussion and Q&A**

All

## **Closing remarks**

Stephen V Liu



Feel free to send your questions  
during the symposium

### Live audience

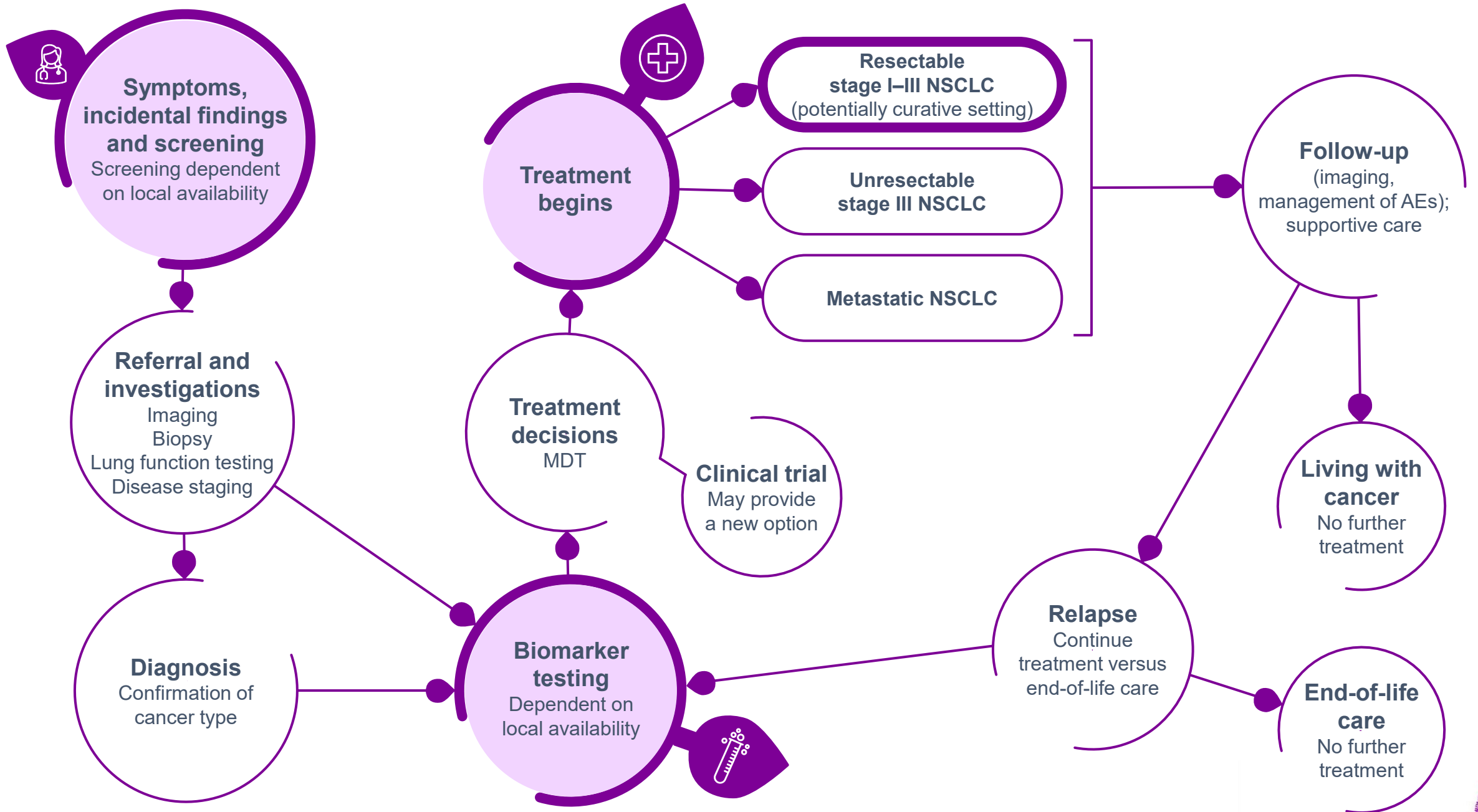
Scan the QR code on the right  
Select the session name:  
REDEFINING LUNG CANCER TOGETHER:  
A NEW ERA FOR PATIENTS



### Online attendees

Type in the chat box next to the streaming video

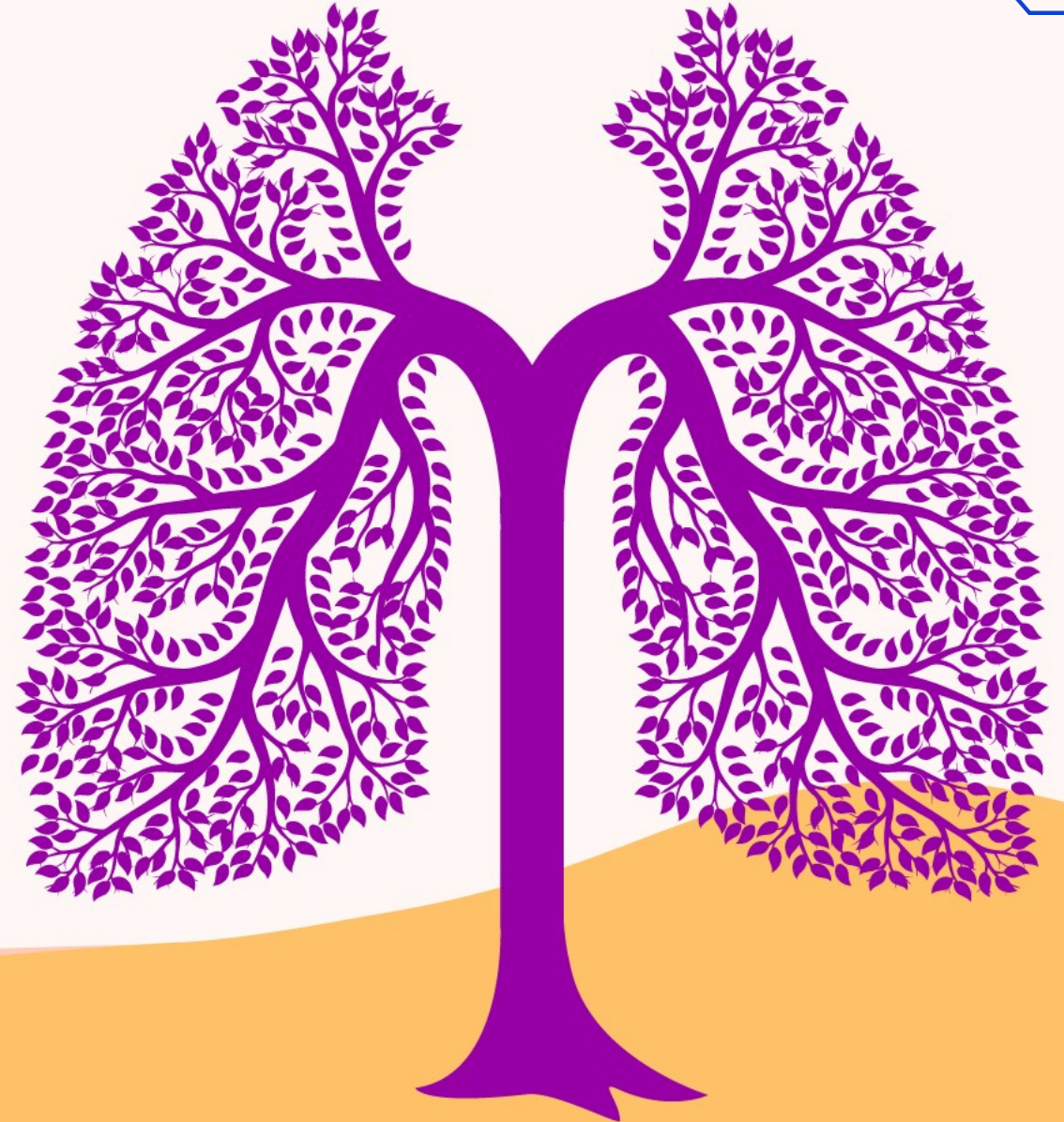






ESMO 2023 Industry Satellite Symposium

# Redefining Lung Cancer Together: A New Era for Patients





**Stephen V Liu**

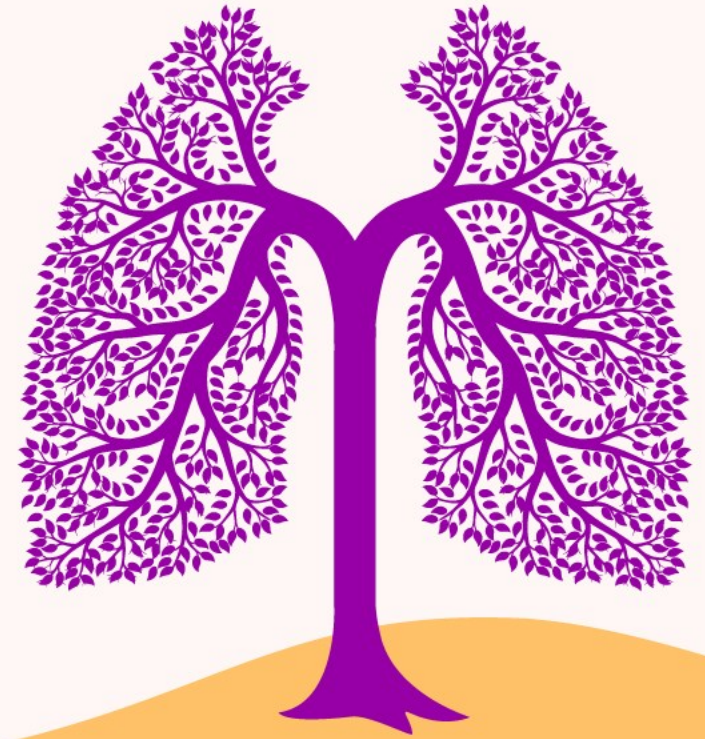
Medical Oncologist  
Georgetown University, USA



**Lara Pijuan**

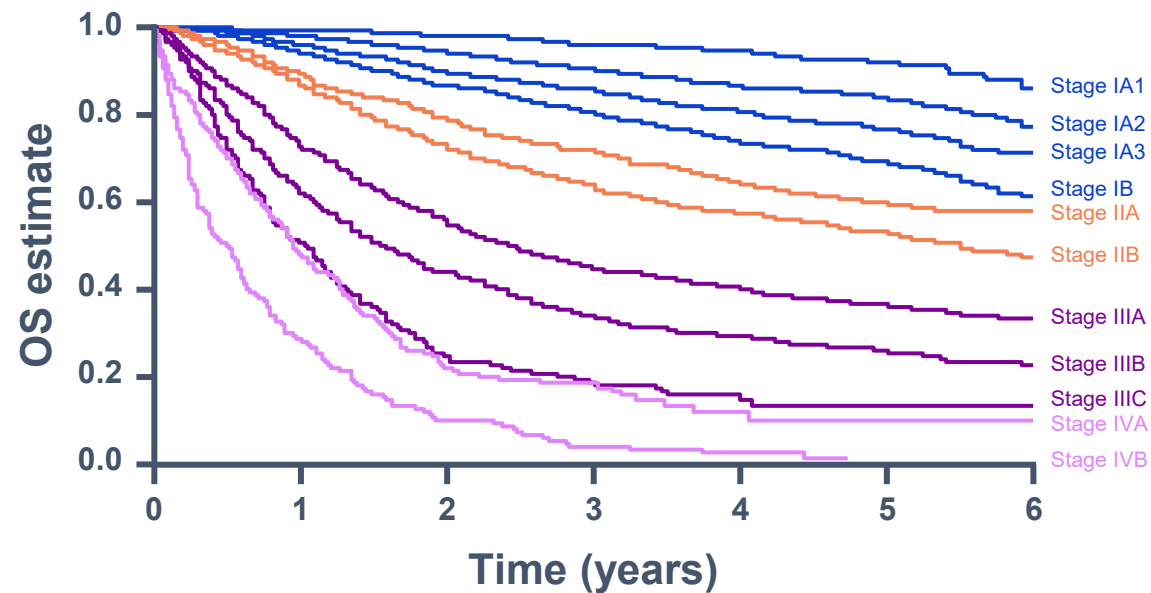
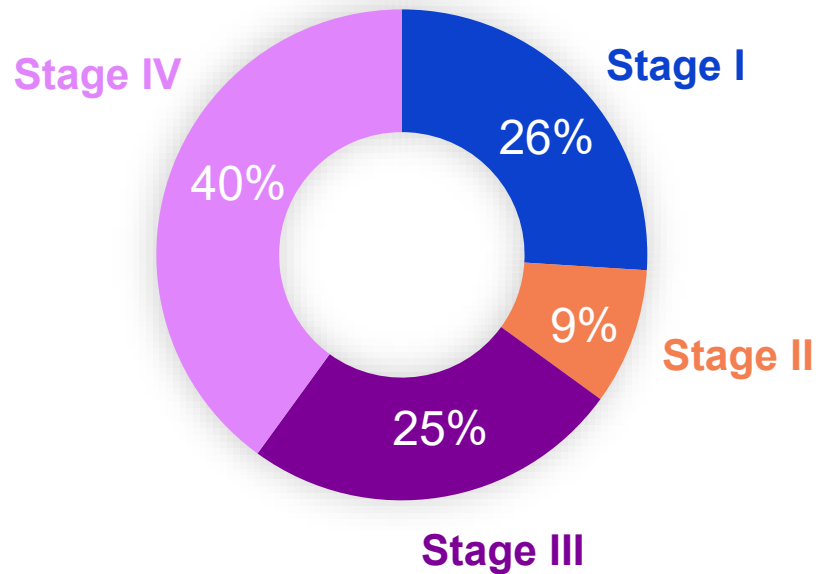
Cytopathologist and Pulmonary Pathologist  
Hospital Universitari de Bellvitge, Spain

# Optimising the patient journey: from lung cancer detection to biomarker testing



Most patients are diagnosed with advanced disease, which is associated with a poorer prognosis

% at diagnosis<sup>1\*</sup>



5-year survival<sup>2†</sup>

<b>Stage I</b>	<b>68–92%</b>
<b>Stage II</b>	<b>53–60%</b>
<b>Stage III</b>	<b>13–36%</b>
<b>Stage IV</b>	<b>0–10%</b>

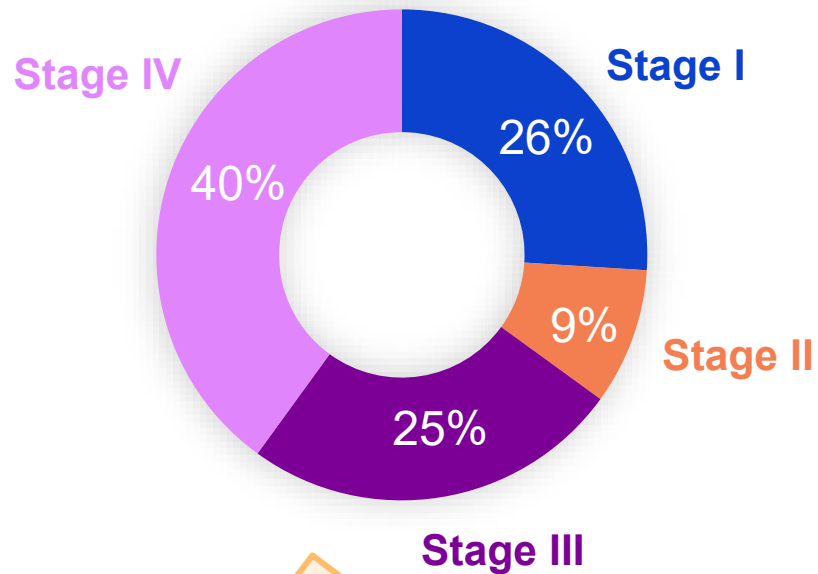
\*Published data from: France, Germany, Japan, Italy, Spain, UK and US; †per AJCC 8<sup>th</sup> edition

1. EpiCast report: NSCLC Epidemiology Forecast to 2025. GlobalData. 2016; 2. Goldstraw, et al. J Thorac Oncol 2016. Figure reprinted from Journal of Thoracic Oncology, Vol 11/ issue 1, Goldstraw et al., The IASLC Lung Cancer Staging Project: Proposals for Revision of the TNM Stage Groupings in the Forthcoming (Eighth) Edition of the TNM Classification for Lung Cancer, Copyright (2016), with permission from Elsevier

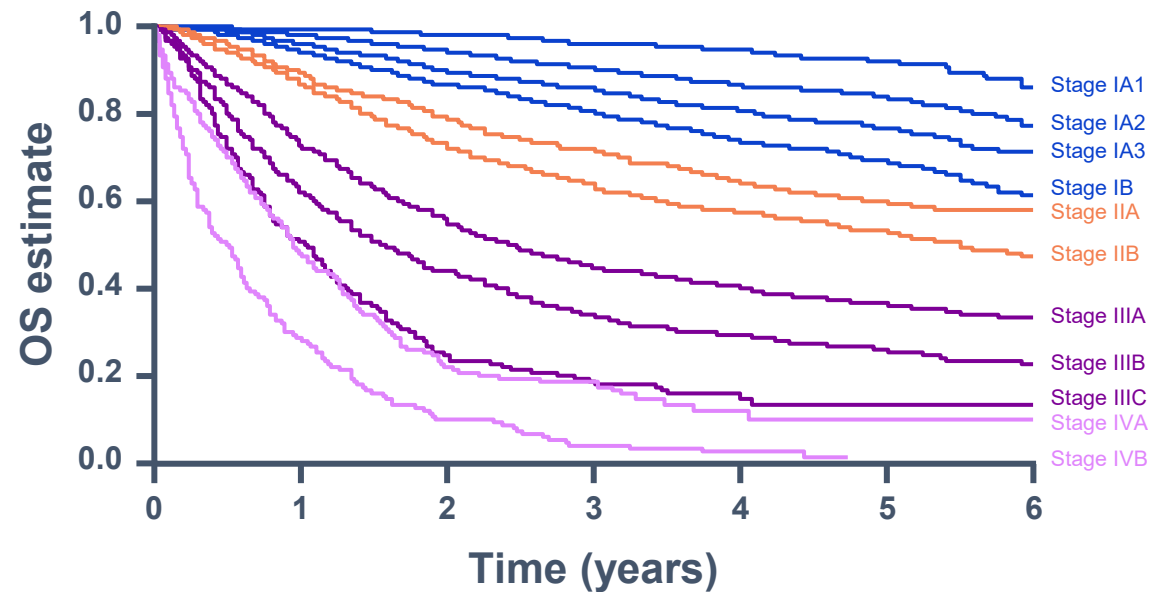


# Most patients are diagnosed with advanced disease, which is associated with a poorer prognosis

**% at diagnosis<sup>1\*</sup>**



More than 50% of patients are diagnosed with advanced disease



**5-year survival<sup>2†</sup>**

**Stage I** 68–92%

**Stage II** 53–60%

**Stage III** 13–36%

**Stage IV** 0–10%

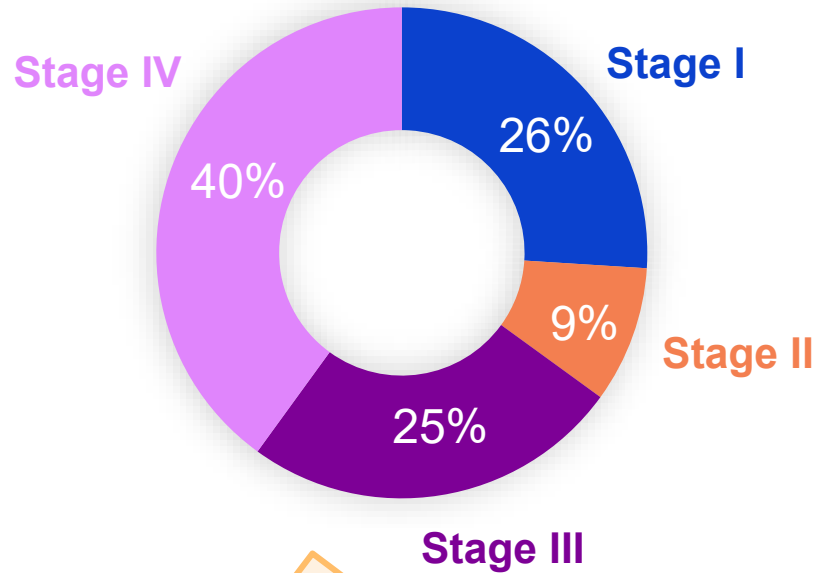
\*Published data from: France, Germany, Japan, Italy, Spain, UK and US; †per AJCC 8<sup>th</sup> edition

1. EpiCast report: NSCLC Epidemiology Forecast to 2025. GlobalData. 2016; 2. Goldstraw, et al. J Thorac Oncol 2016. Figure reprinted from Journal of Thoracic Oncology, Vol 11/ issue 1, Goldstraw et al., The IASLC Lung Cancer Staging Project: Proposals for Revision of the TNM Stage Groupings in the Forthcoming (Eighth) Edition of the TNM Classification for Lung Cancer, Copyright (2016), with permission from Elsevier



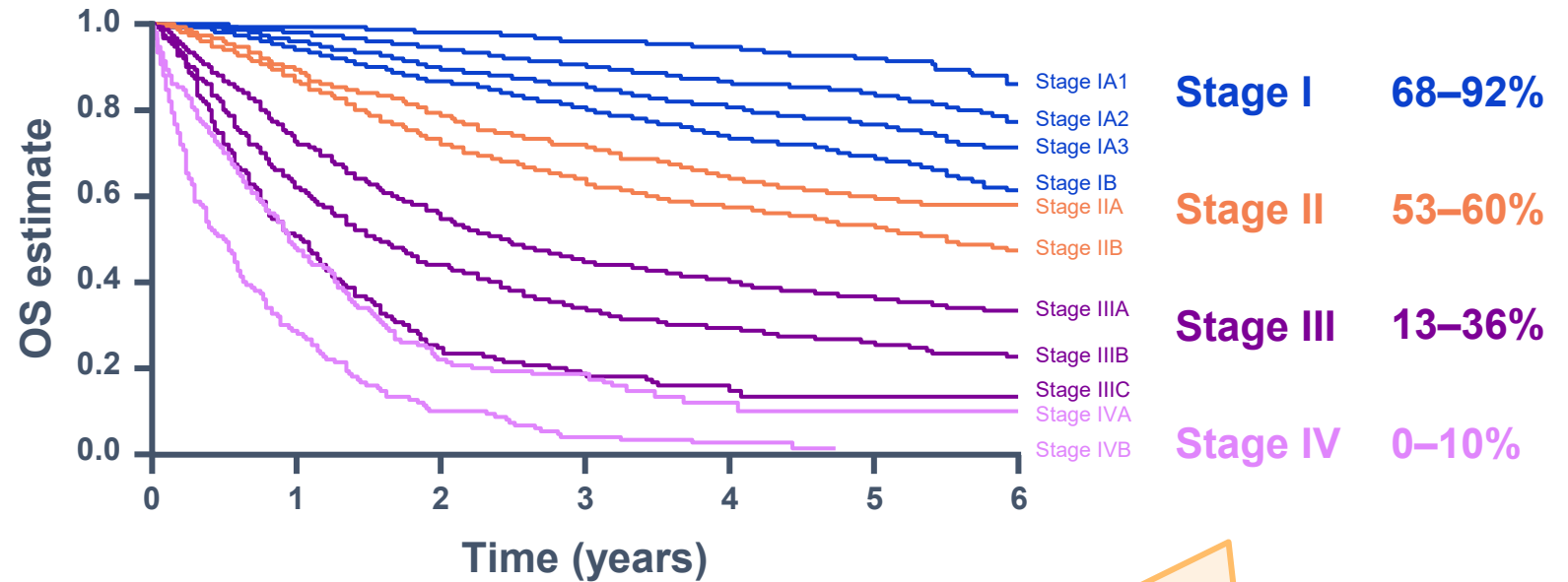
# Most patients are diagnosed with advanced disease, which is associated with a poorer prognosis

**% at diagnosis<sup>1\*</sup>**



More than 50% of patients are diagnosed with advanced disease

**5-year survival<sup>2†</sup>**



5-year OS rates are lower for patients with more advanced stages of disease

\*Published data from: France, Germany, Japan, Italy, Spain, UK and US; †per AJCC 8<sup>th</sup> edition

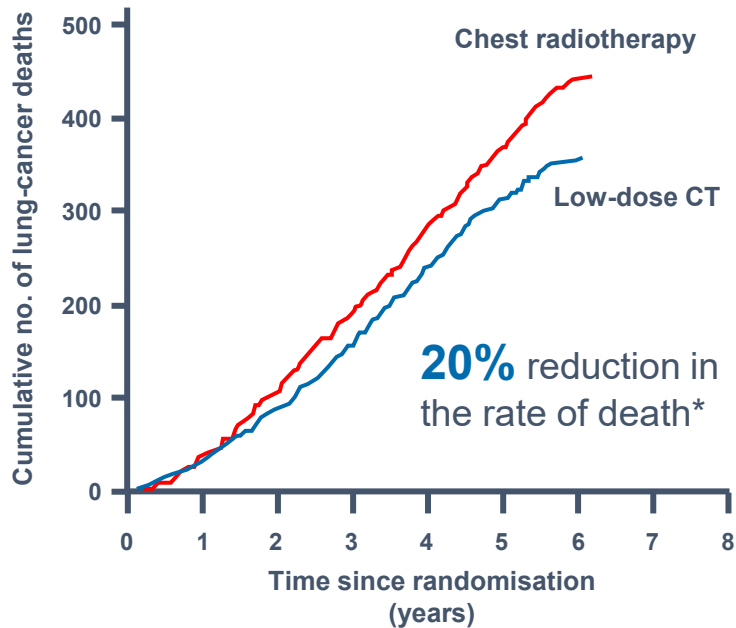
1. EpiCast report: NSCLC Epidemiology Forecast to 2025. GlobalData. 2016; 2. Goldstraw, et al. J Thorac Oncol 2016. Figure reprinted from Journal of Thoracic Oncology, Vol 11/ issue 1, Goldstraw et al., The IASLC Lung Cancer Staging Project: Proposals for Revision of the TNM Stage Groupings in the Forthcoming (Eighth) Edition of the TNM Classification for Lung Cancer, Copyright (2016), with permission from Elsevier



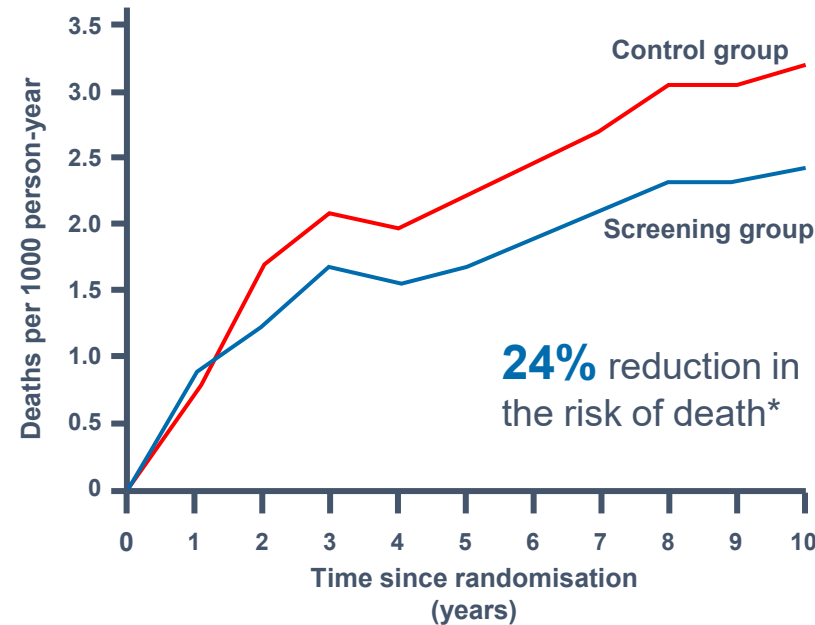


# Low-dose CT screening can improve lung cancer survival by detecting cancers at an earlier stage, where outcomes are better

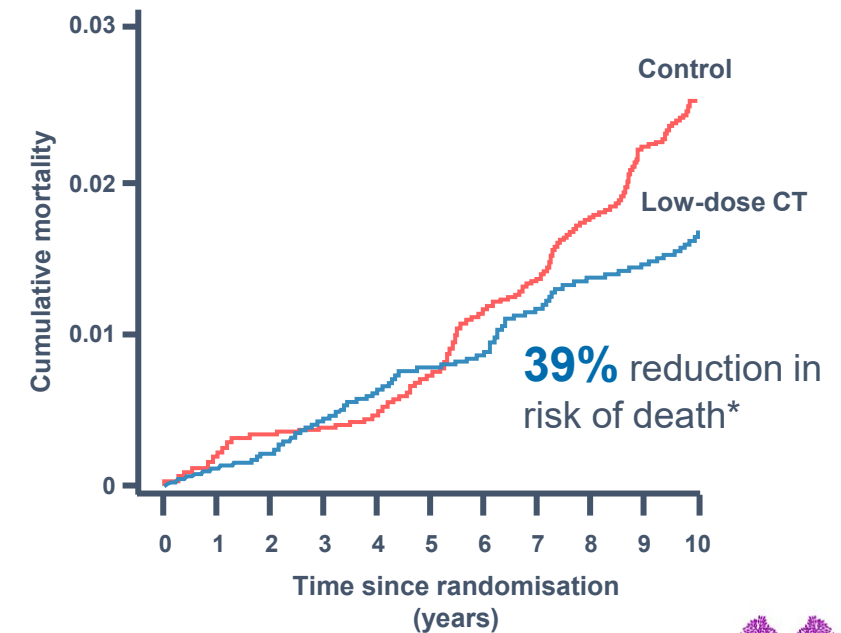
## National Lung Screening Trial<sup>1</sup> >50,000 patients



## NELSON<sup>2</sup> >15,000 patients



## MILD<sup>3</sup> >4,000 patients



\*From lung cancer

1. From The New England Journal of Medicine, Reduced Lung-Cancer Mortality with Low-Dose Computed Tomographic Screening, Volume 365. Copyright © (2011) Massachusetts Medical Society  
2. From The New England Journal of Medicine, de Koning, et al., Reduced Lung-Cancer Mortality with Volume CT Screening in a Randomized Trial, Volume 382, Copyright © (2020) Massachusetts Medical Society; 3. Reprinted from Annals of Oncology, Vol 30/ Issue 7, Pastorino et al., Prolonged lung cancer screening reduced 10-year mortality in the MILD trial: new confirmation of lung cancer screening efficacy. Copyright (2019), with permission from Elsevier



# Current identification of individuals at increased risk of being diagnosed with lung cancer is based on a wide range of factors

## Guidelines for lung cancer screening prioritise people with a history of smoking

### USPSTF recommendations:<sup>1</sup>

- Adults aged 50 to 80 years
- A 20 pack-year smoking history
- Currently smoke or have quit within the past 15 years

### European evidence (NELSON study):<sup>2</sup>

- Adults aged 50 to 74 years
- A history of >15 cigarettes/day for >25 years or >10 cigarettes/day for >30 years
- Currently smoke or have quit within the past 10 years





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- Currently smoke or have quit within the past 10 years

**TALENT** study:<sup>3</sup> screening study of 12,011 **high-risk, never smokers in Taiwan**

**High detection rate;** most patients diagnosed at **stage 0 or 1**

**FANSS** study:<sup>4</sup> US screening study of 201 **female non-smokers of Asian descent**

**High detection rate;** all patients detected had **EGFR mutations**



# Risk prediction models could improve the effectiveness of lung cancer screening

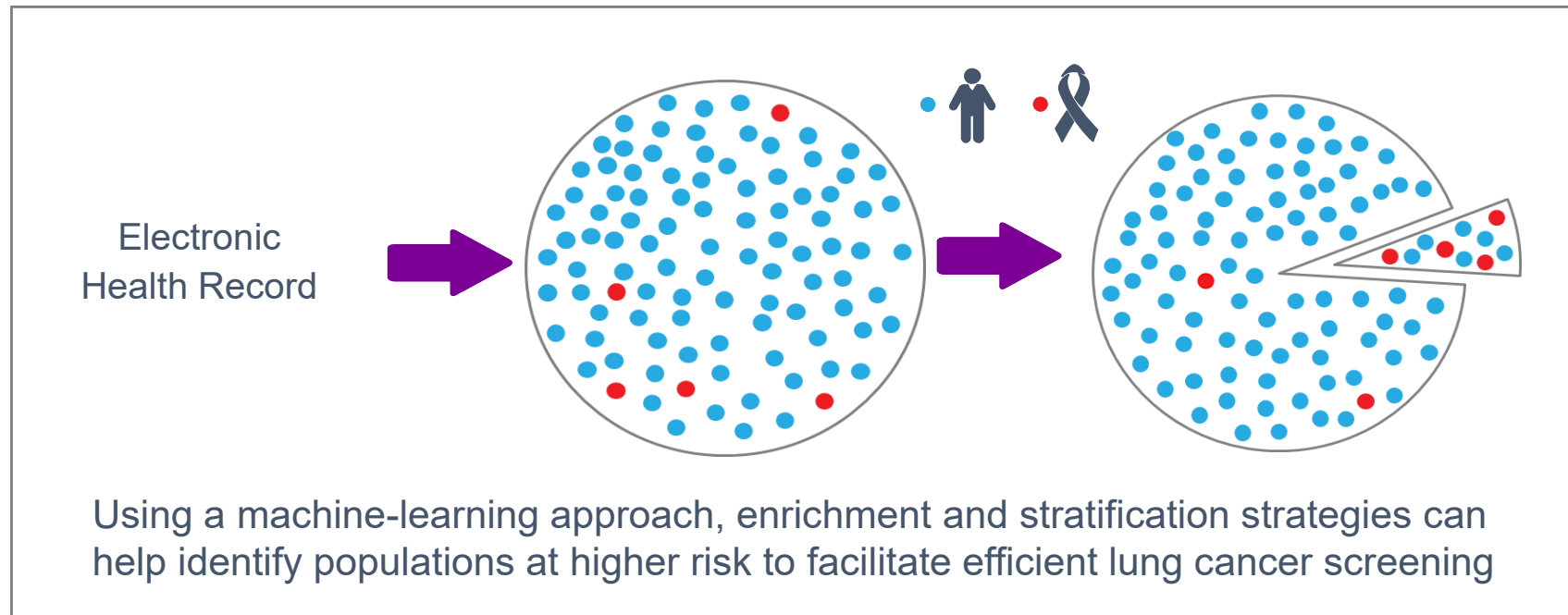
Lung cancer mortality could be reduced by **identifying people at higher risk of lung cancer** and **offering low dose CT screening**



To do this, a **risk prediction model** would be needed

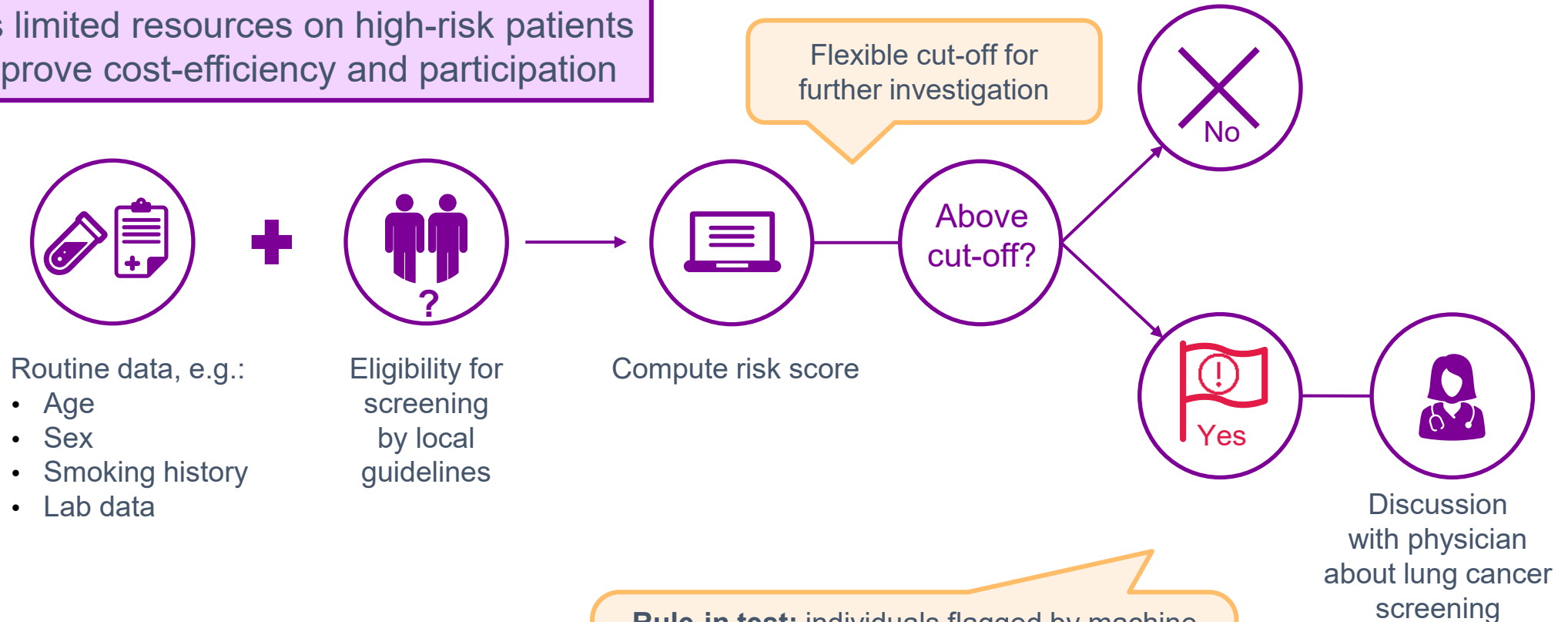


The model would then need to be **validated** to establish performance, health-economic effectiveness, and equity in different sub-populations



# Machine-learning tools and AI algorithms can act as ‘digital biomarkers’ to rule-in high-risk patients and improve the efficiency of screening

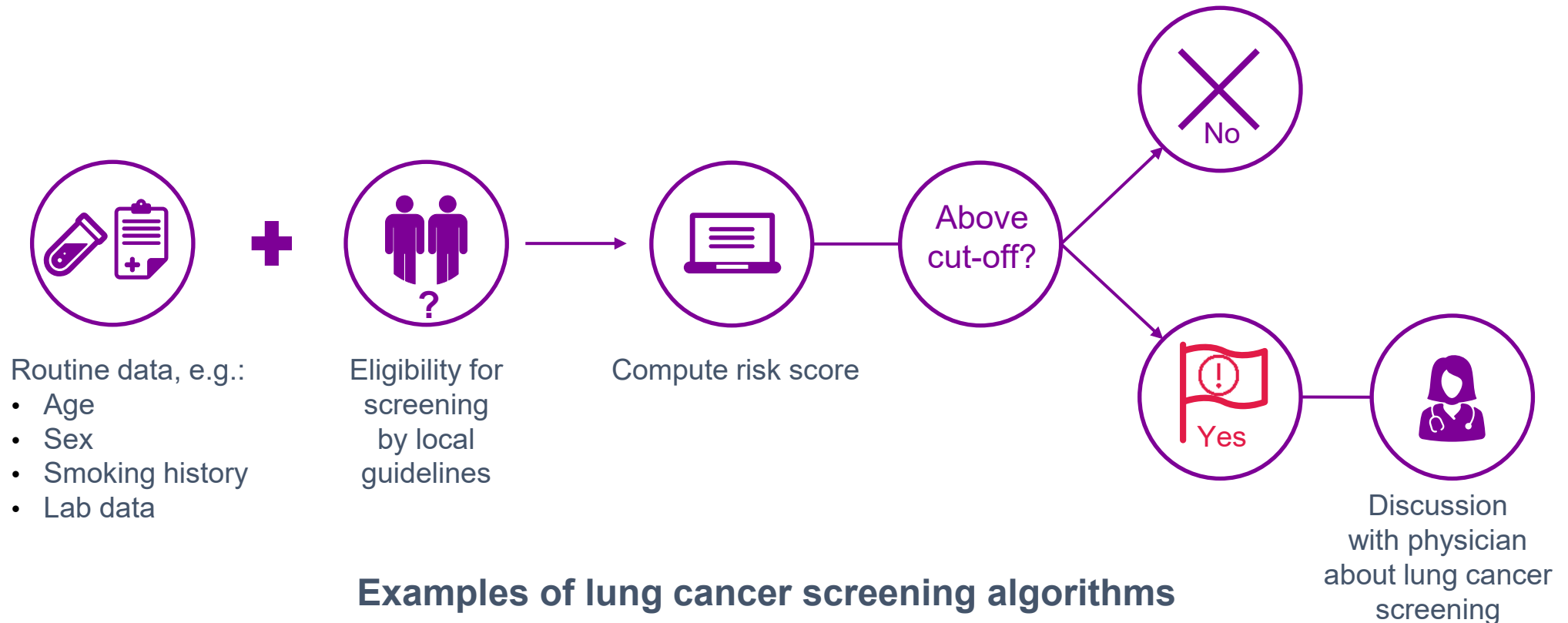
Focus limited resources on high-risk patients to improve cost-efficiency and participation



**Rule-in test:** individuals flagged by machine learning or artificial intelligence algorithms are referred to a physician for further assessment such as low-dose CT scanning



# Machine-learning tools and AI algorithms can act as ‘digital biomarkers’ to rule-in high-risk patients and improve the efficiency of screening



## Examples of lung cancer screening algorithms

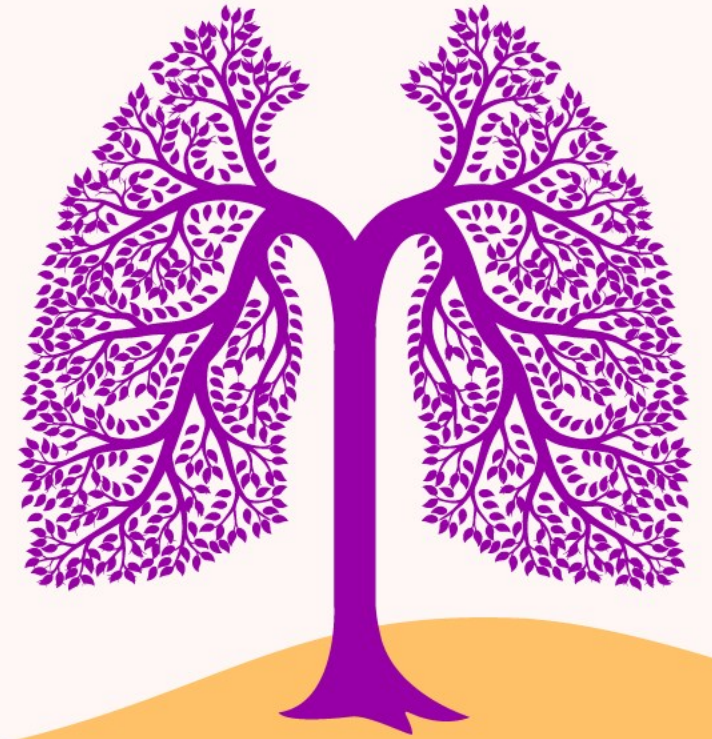
LungFlag<sup>1</sup>

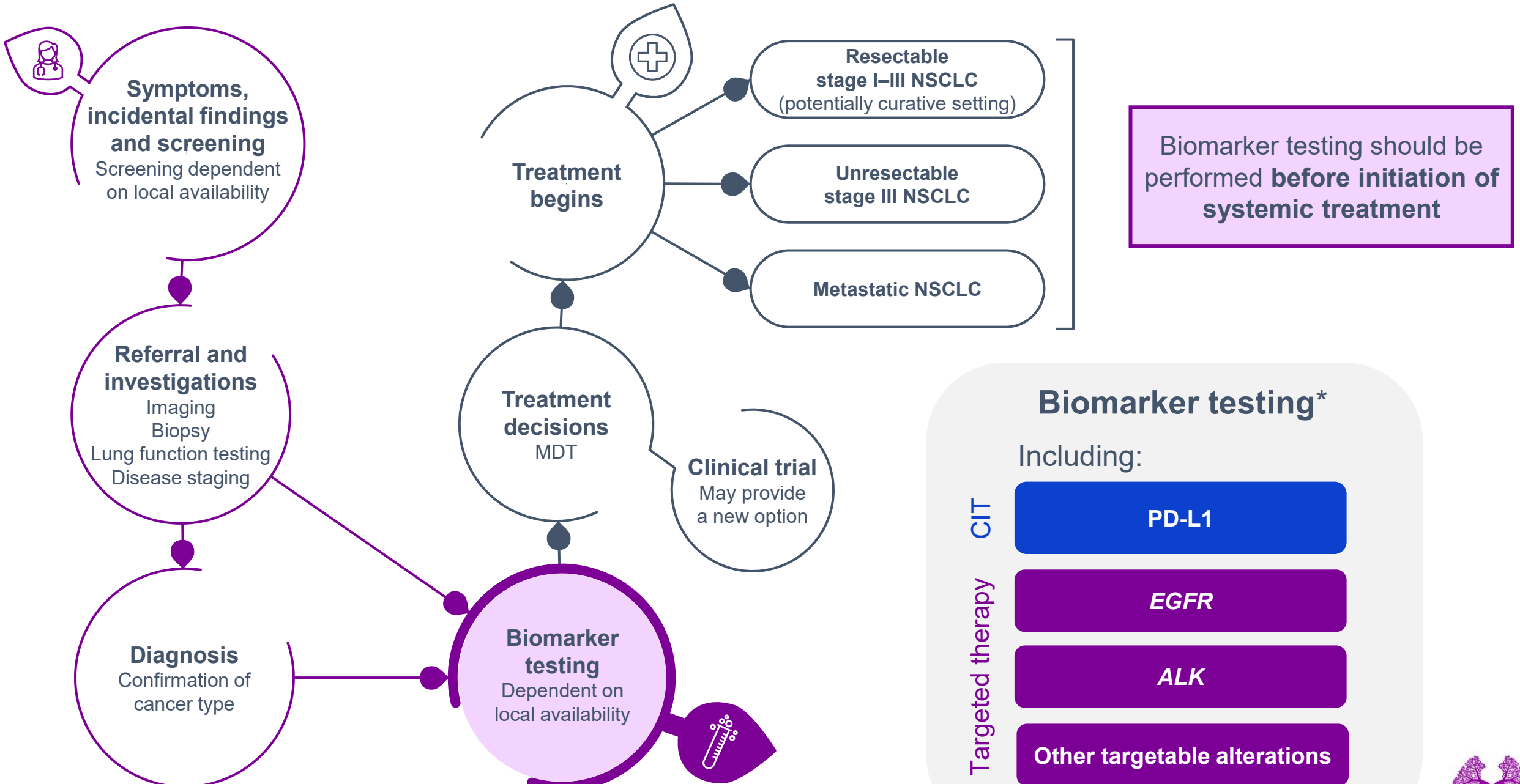
PLCO<sub>m2012</sub><sup>2</sup>

LLP<sup>3</sup>



Besides screening, what else is key to optimising the patient journey and what can we learn from the advanced disease setting?



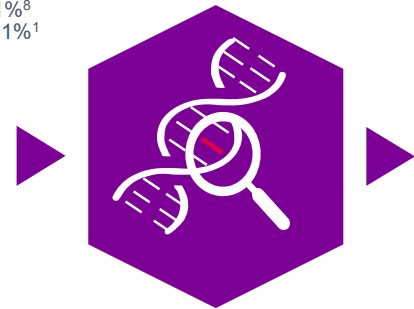
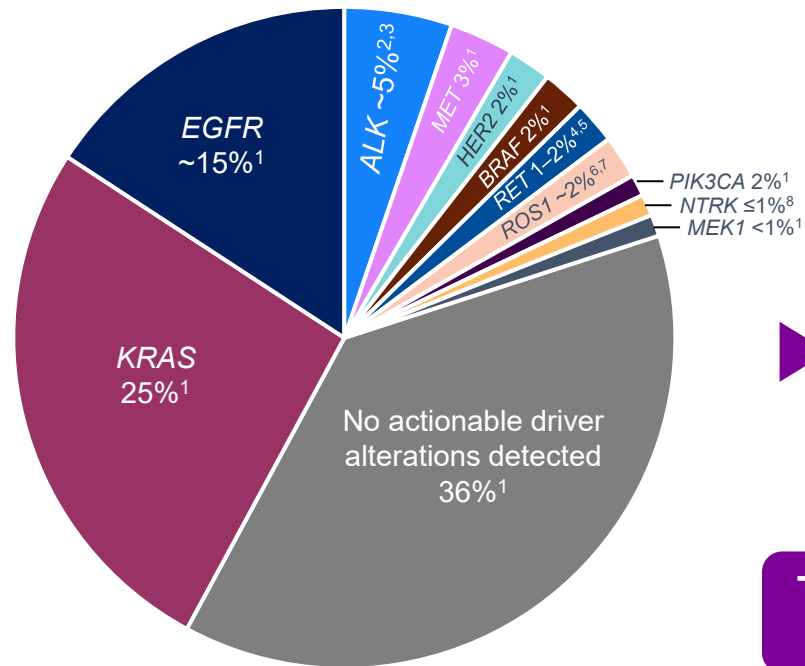


\*There are several considerations in deciding which biomarkers to test for, including stage of disease and histology  
 American Cancer Society; Lung Cancer. Available at: <https://www.cancer.org/cancer/types/lung-cancer.html>  
 Cancer Research UK: Lung Cancer. Available at: <https://www.cancerresearchuk.org/about-cancer/lung-cancer>  
 Hendriks, et al. Ann Oncol 2023a; Hendriks, et al. Ann Oncol 2023b; Remon, et al. Ann Oncol 2023



# In advanced NSCLC, the development of multiple targeted therapies has revolutionised the treatment landscape

## Oncogenic drivers in lung cancer



Targeting actionable driver alterations

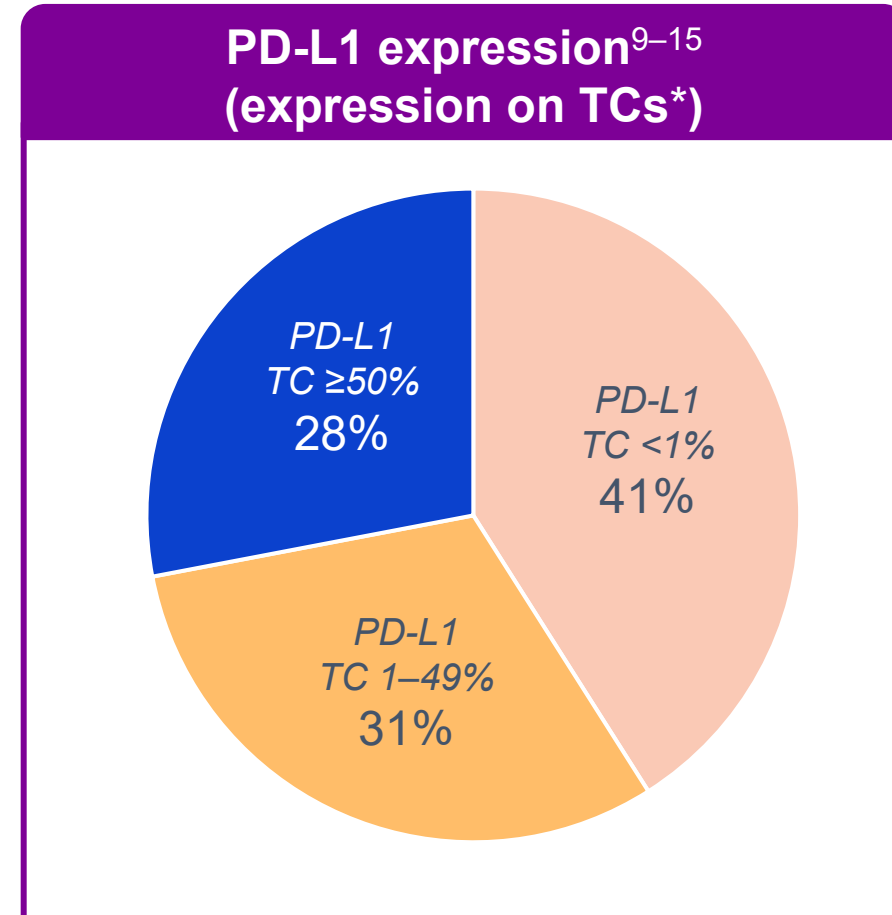
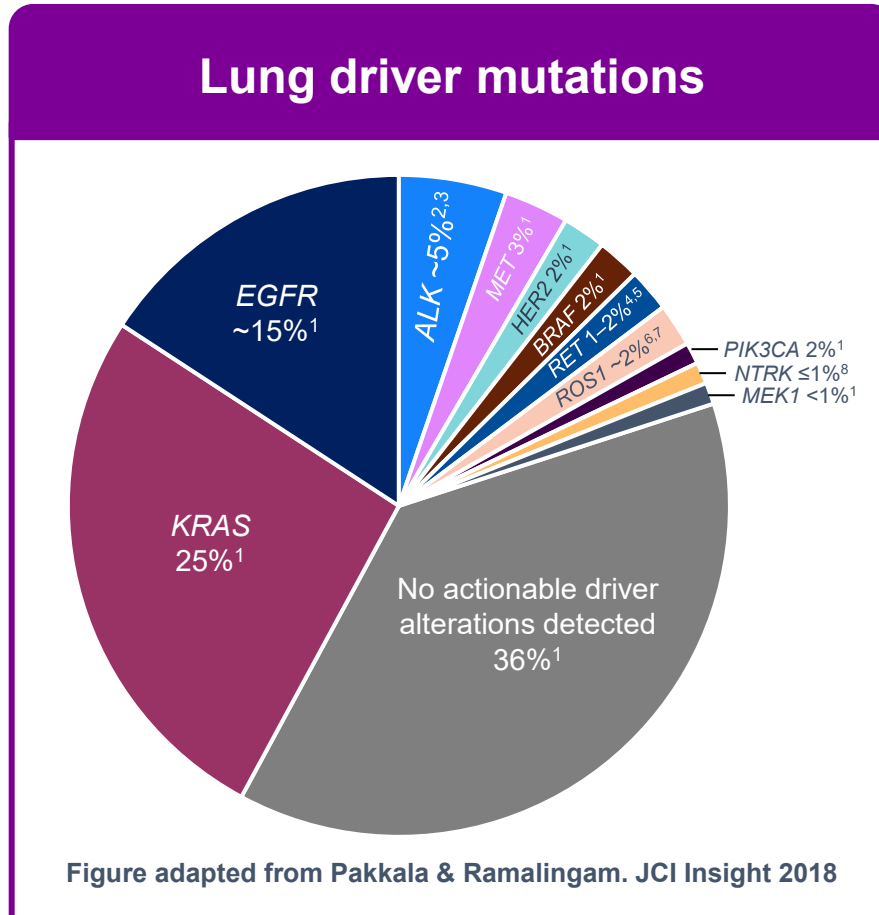
Approved drugs for each biomarker <sup>9</sup>	
<p><b>ALK</b></p> <ul style="list-style-type: none"> <li>Alectinib</li> <li>Brigatinib</li> <li>Ceritinib</li> <li>Crizotinib</li> <li>Lorlatinib</li> </ul>	<p><b>EGFR</b></p> <ul style="list-style-type: none"> <li>Erlotinib</li> <li>Afatinib</li> <li>Dacomitinib</li> <li>Gefitinib</li> <li>Osimertinib</li> <li>Erlotinib + bevacizumab</li> <li>Erlotinib + ramucirumab</li> </ul>
<p><b>NTRK</b></p> <ul style="list-style-type: none"> <li>Entrectinib ▼</li> <li>Larotrectinib</li> </ul>	<p><b>ROS1</b></p> <ul style="list-style-type: none"> <li>Entrectinib ▼</li> <li>Crizotinib</li> </ul>
<p><b>BRAF V600E</b></p> <ul style="list-style-type: none"> <li>Dabrafenib + trametinib</li> </ul>	<p><b>RET</b></p> <ul style="list-style-type: none"> <li>Pralsetinib ▼</li> <li>Selpercatinib</li> </ul>
<p><b>KRAS G12C</b></p> <ul style="list-style-type: none"> <li>Sotorasib</li> <li>Adagrasib</li> </ul>	<p><b>MET</b></p> <ul style="list-style-type: none"> <li>Capmatinib</li> <li>Tepotinib</li> </ul>
<p><b>HER2</b></p> <ul style="list-style-type: none"> <li>Trastuzumab deruxtecan</li> </ul>	

Figure adapted from Pakkala & Ramalingam. JCI Insight 2018

The content of this symposium may include scientific information about experimental or investigational compounds, indications and services that are not yet approved in the EU  
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 Please report suspected adverse reactions to the National Health Authority in your country and/or Roche Safety contact in your country (www.roche.com and select your country)  
 1. Pakkala & Ramalingam. JCI Insight 2018; 2. Barlesi, et al. Lancet 2016; 3. Tian, et al. Lung Cancer 2017; 4. Qiu, et al. Sci Rep 2020; 5. Gainor & Shaw. Oncologist 2013  
 6. Bergethon, et al. J Clin Oncol 2012; 7. Dugay, et al. Oncotarget 2017; 8. Farago, et al. JCO Precis Oncol 2018, 9. US PIs and/or EMA SmPCs for individual drugs



# NSCLC has important genomic and immunological biomarkers that directly affect treatment decisions



The content of this symposium may include scientific information about experimental or investigational compounds, indications and services that are not yet approved in the EU

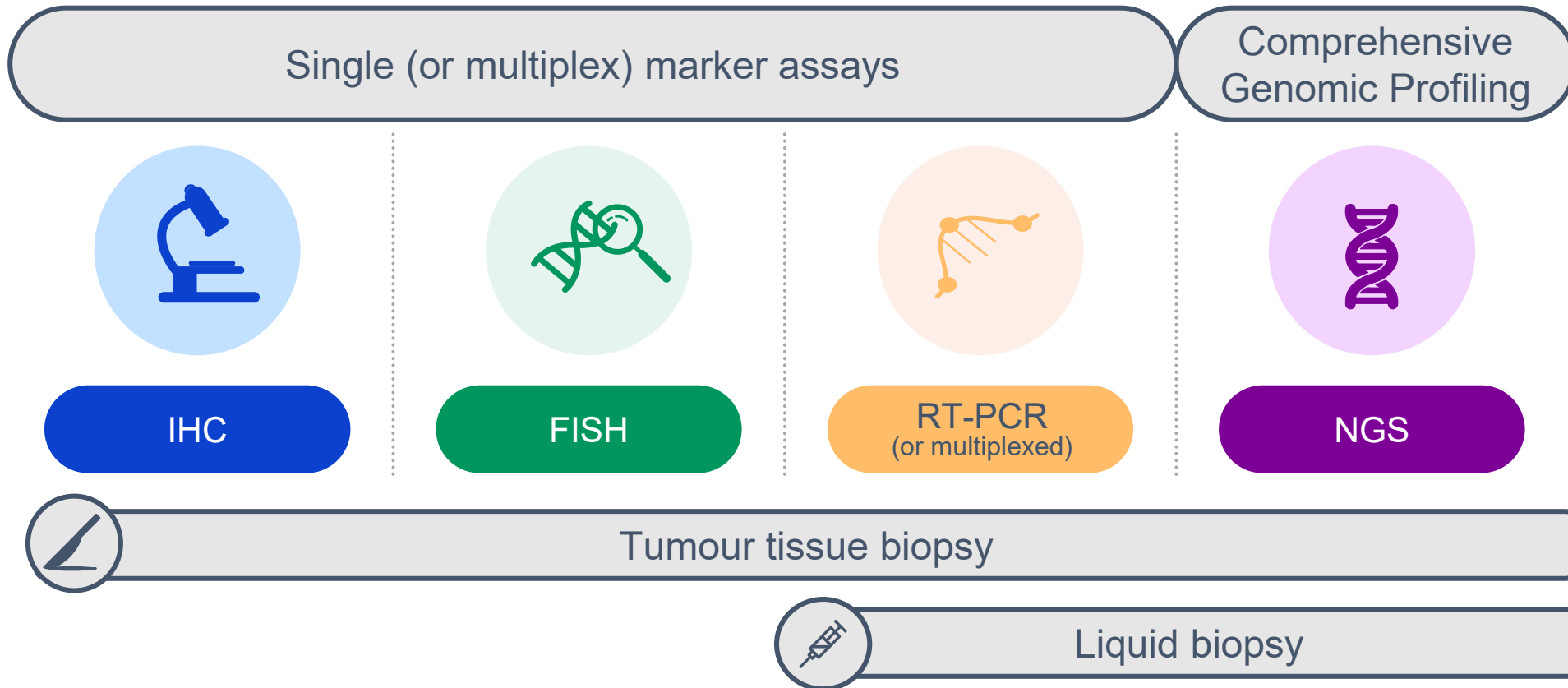
\*PD-L1 high is TC/TPS ≥50%, PD-L1 low is TC/TPS 1-49%, PD-L1 negative is TC/TPS <1%

1. Pakkala & Ramalingam. JCI Insight 2018; 2. Barlesi, et al. Lancet 2016; 3. Tian, et al. Lung Cancer 2017; 4. Qiu, et al. Sci Rep 2020; 5. Gainor & Shaw. Oncologist 2013
6. Bergethon, et al. J Clin Oncol 2012; 7. Dugay, et al. Oncotarget 2017; 8. Farago, et al. JCO Precis Oncol 2018; 9. Felip, et al. Lancet 2021; 10. Carbone, et al. WCLC 2020
11. Forde, et al. N Engl J Med 2022; 12. Kowanetz, et al. AACR 2018; 13. Gandhi, et al. N Engl J Med 2018; 14. Paz-Ares, et al. N Engl J Med 2018; 15. Paz-Ares, et al. Lancet Oncol 2021

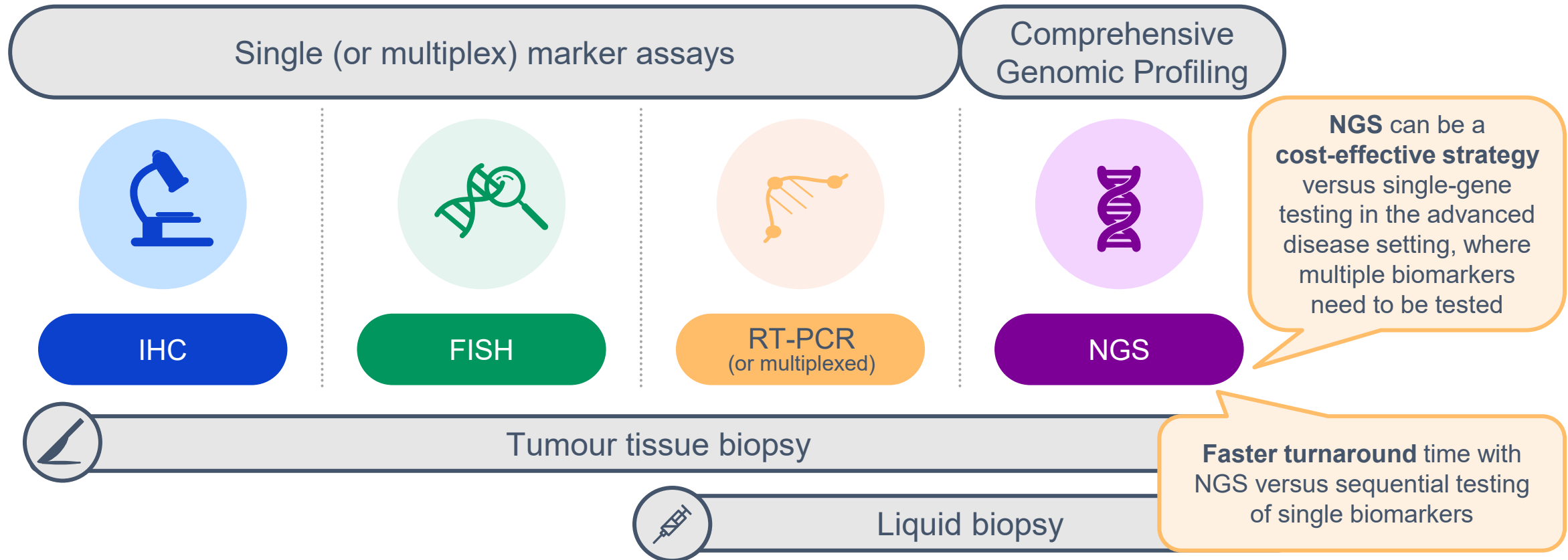




# Tissue biomarker testing is the gold standard, but liquid biopsies are also an option in advanced NSCLC



# Tissue biomarker testing is the gold standard, but liquid biopsies are also an option in advanced NSCLC



# Blood-based NGS has advantages and disadvantages compared with tissue biopsy testing

**+** **Less invasive** than tissue biopsy procedures<sup>1</sup>

**+** **Clinical utility in patients who are unfit for biopsy or with insufficient tissue sample**<sup>1</sup>

**+** **Faster turnaround time**<sup>2</sup>

**+** **Potential tool for early diagnosis, monitoring of treatment response and resistance**<sup>1,3</sup>

**-** Risk of missed biomarker, due to **lower sensitivity** than tissue-based testing and reliance on ctDNA shedding into the blood<sup>4-7</sup>

**-** **Cannot be used for initial histologic diagnosis or PD-L1 testing**<sup>7,8</sup>

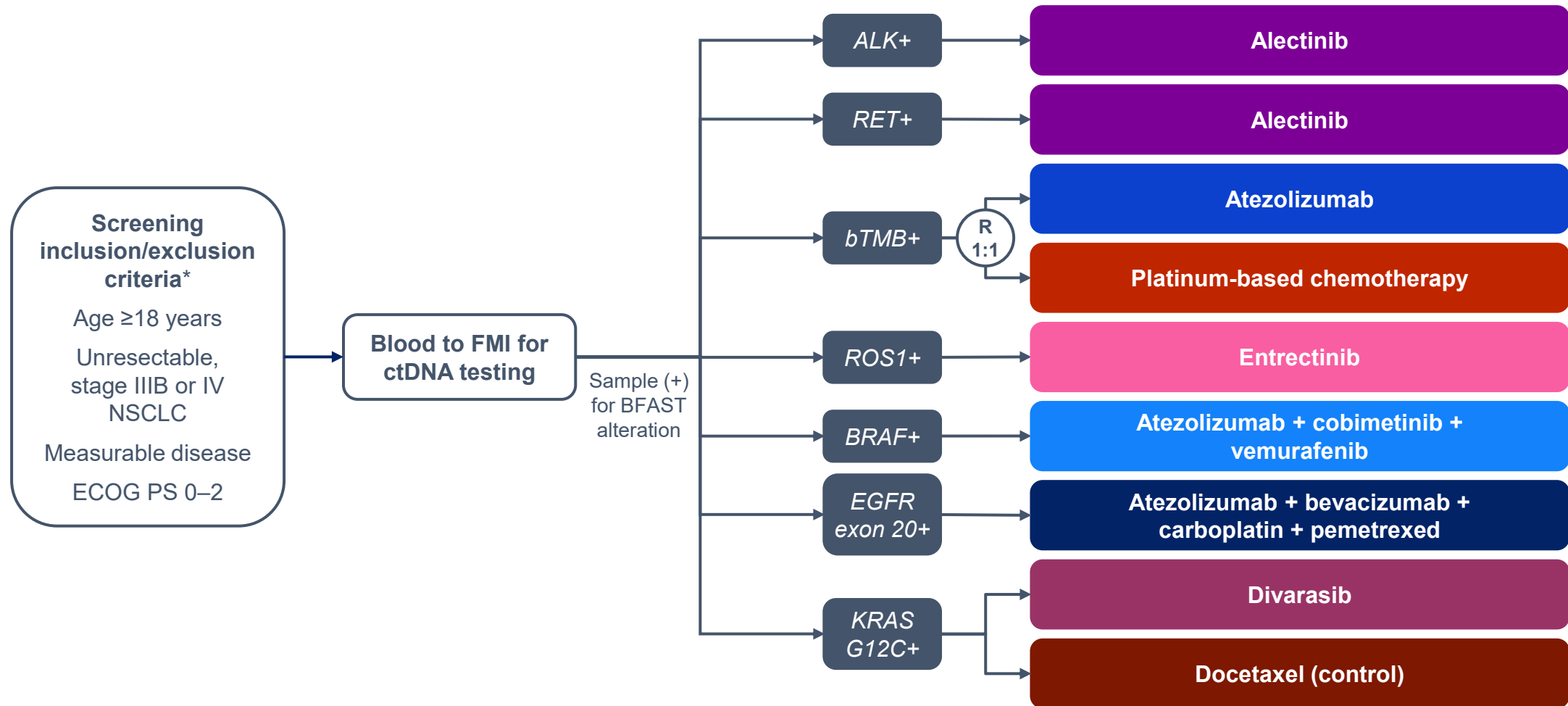
**Blood-based NGS is more optimal in advanced disease;** disease burden is associated with the amount of tumour DNA shed into the blood, which is lower in early-stage NSCLC, and may be below the detection limit of liquid assays<sup>4-7</sup>

ctDNA, circulating tumour DNA

1. Diaz Jr, et al. J Clin Oncol 2014; 2. Raez, et al. Clin Lung Cancer 2023; 3. Martins, et al. Genes (Basel) 2021; 4. Singh. J Mol Diagn 2020; 5. Chen & Zhao. Human Genomics 2019  
6. Xie, et al. BMC Cancer 2023; 7. Referenced with permission from the NCCN Clinical Practice Guidelines in Oncology (NCCN Guidelines®) for **Non-Small Cell Lung Cancer V.3.2023**.<sup>®</sup> National Comprehensive Cancer Network, Inc. 2023. All rights reserved. Accessed 17 October 2023. To view the most recent and complete version of the guideline, go online to NCCN.org. NCCN makes no warranties of any kind whatsoever regarding their content, use or application and disclaims any responsibility for their application or use in any way; 8. Hita-Millan, et al. J Pers Med 2021



# The BFAST trial is investigating multiple therapies in 1L metastatic NSCLC based on blood-based NGS testing



The content of this symposium may include scientific information about experimental or investigational compounds, indications and services that are not yet approved in the EU

\*All cohorts have additional, treatment-specific inclusion/exclusion criteria

Gadgeel, et al. ESMO 2019; Dziadziuszko, et al. J Thorac Oncol 2021; <https://clinicaltrials.gov/study/NCT03178552>



# The data from the *ALK*+ cohort of the BFAST study were consistent with those from the tissue-based ALEX trial

## BFAST *ALK*+ cohort<sup>1,2</sup>

- BFAST identified a cohort of 119 patients with advanced NSCLC who had *ALK*+ disease based on blood-based NGS testing only
- Patients received standard-of-care 1L treatment with alectinib
- **Primary endpoint: investigator-assessed ORR**

### Efficacy results in the BFAST *ALK*+ cohort (N=87):

**89.7%**

investigator-assessed  
objective response rate

**33.0 months**

median  
progression-free survival

**35.1 months**

median  
duration of response

**Data were consistent with those seen in the ALEX study,<sup>3</sup>  
in which patients were identified using tissue-based testing**





# Biomarker testing should be performed before initiation of systemic therapy in early-stage NSCLC



- A good collaboration between **pulmonologists** and **pathologists** would be key to optimising biopsy procedures to ensure **a large enough sample** with enough **good-quality tumour tissue**
  - Biomarker testing can be performed on the **diagnostic biopsy** and/or the **surgical resection sample**, although the small sample size of the diagnostic biopsy can impact the feasibility and quality of testing
- Patients with *EGFR*+ or *ALK*+ NSCLC are less likely to benefit from immunotherapy



# Summary

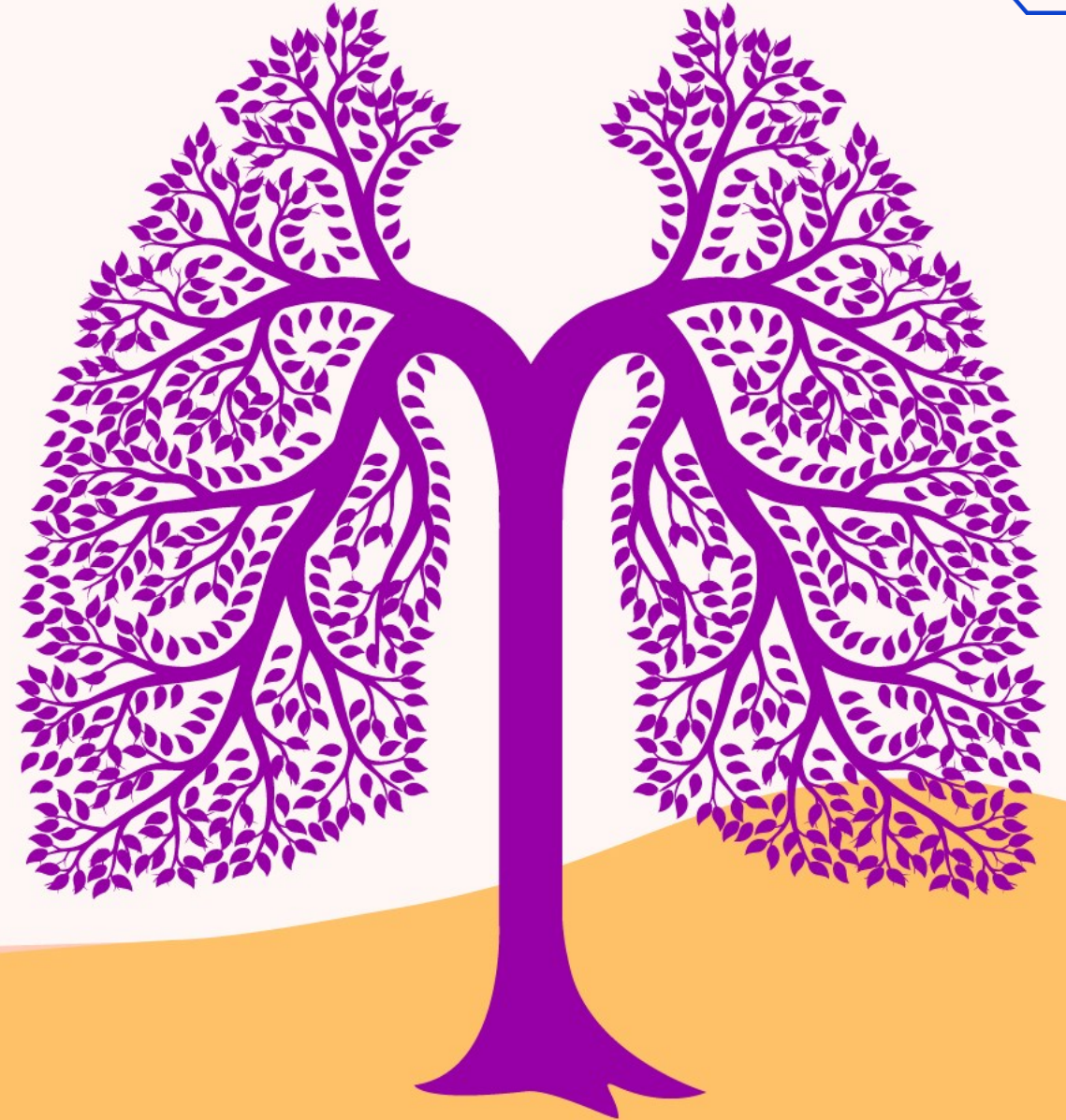
- **Early diagnosis** of lung cancer correlates with **better prognosis**;<sup>1</sup> machine learning and AI tools are being developed to identify high-risk patients and improve screening<sup>2,3</sup>
- Biomarker testing is a key stage in the patient journey and helps inform treatment decisions; it should be performed before initiation of systemic therapy in early-stage NSCLC<sup>4–6</sup>
  - **Advanced disease:** guidelines recommend screening for multiple biomarkers; **blood-based NGS** is a good option in this setting<sup>5,6</sup>
  - **Early-stage disease:** recommended testing for **PD-L1**, **EGFR** and **ALK**, using **tissue-based testing**<sup>6</sup>
- **Blood-based NGS is more optimal in advanced disease** as tumour DNA shedding is lower in early-stage disease, and may be below the detection limit of liquid assays<sup>7,8</sup>





ESMO 2023 Industry Satellite Symposium

# Redefining Lung Cancer Together: A New Era for Patients





**Martin Reck**

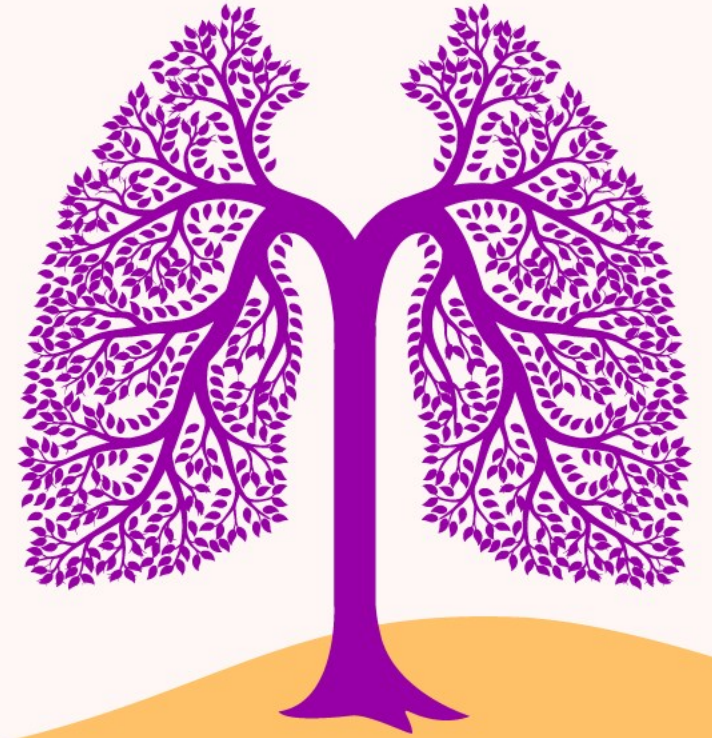
Pulmonologist  
LungenClinic  
Großhansdorf, Germany



**Nasser Altorki**

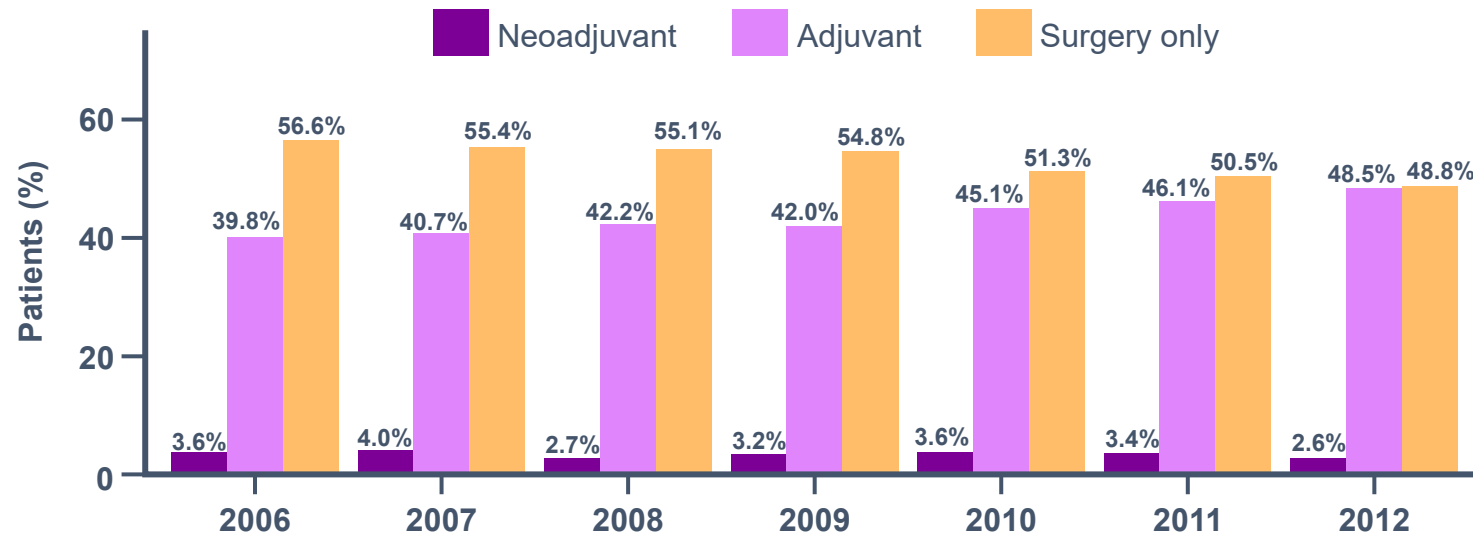
Thoracic Surgeon  
Weill Cornell Medicine  
New York, NY, USA

# Evolving treatment decisions in resectable NSCLC



# Real-world data: not all patients receive systemic therapy and adjuvant chemotherapy used to be more commonly used

**Systemic therapy amongst patients undergoing surgery**  
National Cancer Database 2006–2012 (US patients)<sup>1</sup>



Many patients undergoing surgery have received no systemic therapy<sup>1,2</sup>

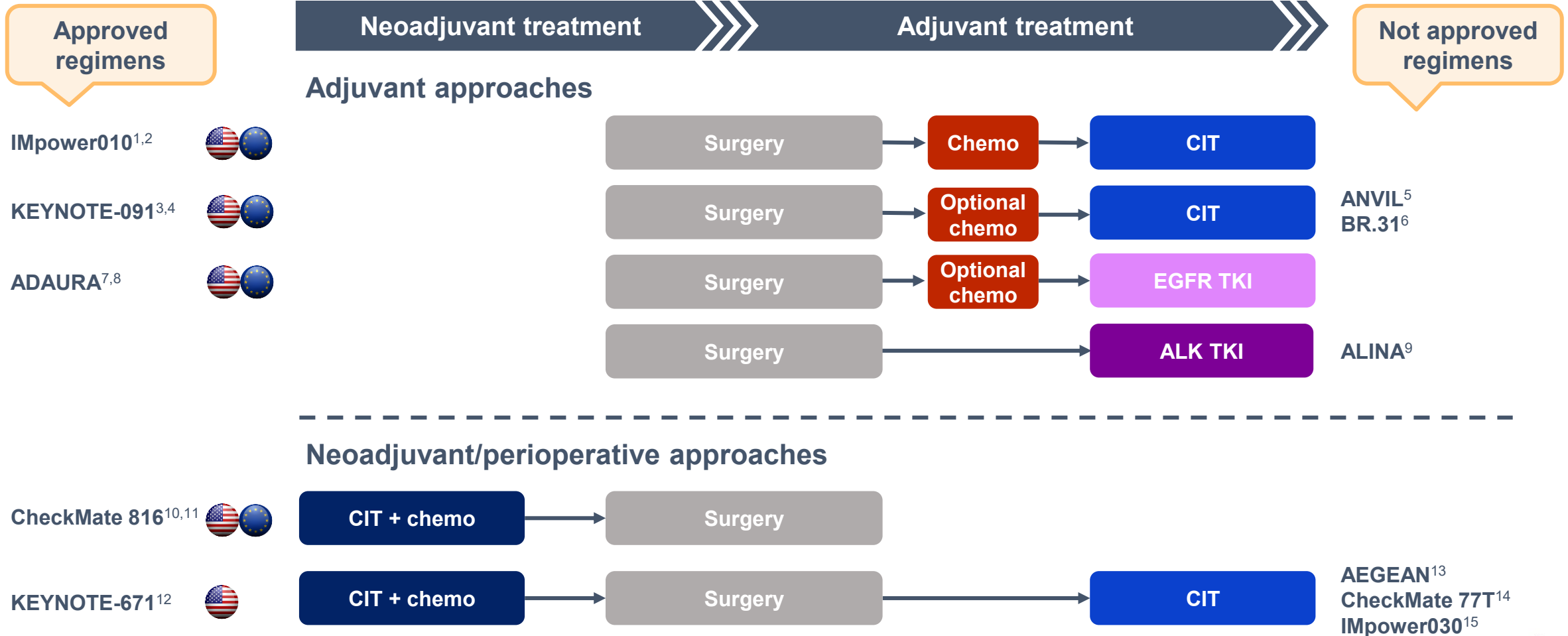
Historically adjuvant chemotherapy has been more extensively used, than neoadjuvant chemotherapy<sup>1,2</sup>

	Stage II	Stage III
Surgery only	57.4%	44.9%
Neoadjuvant chemotherapy	2.4%	5.0%
Adjuvant chemotherapy	40.2%	50.1%

1. MacLean, et al. Oncotarget 2018; 2. Lee, et al. ESMO 2021



# Various treatment strategies are under investigation in early-stage NSCLC



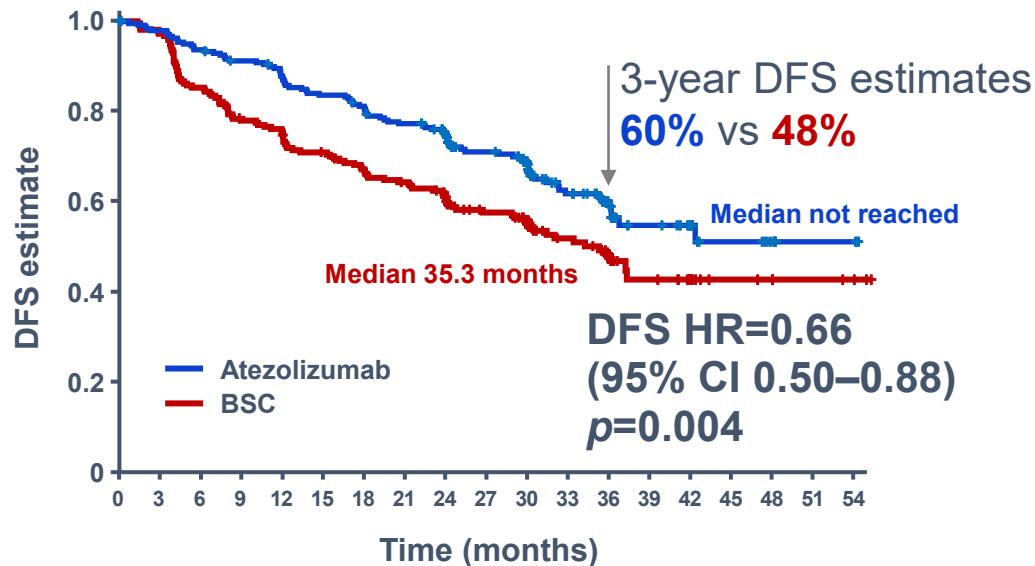
1. US PI TECENTRIQ (atezolizumab); 2. EMA SmPC TECENTRIQ (atezolizumab); 3. US PI KEYTRUDA (pembrolizumab); 4. Merck press release (16 October 2023; KEYNOTE-091)  
 5. <https://www.clinicaltrials.gov/study/NCT02595944>; 6. <https://www.clinicaltrials.gov/study/NCT02273375>; 7. US PI TAGRISSO (osimertinib); 8. EMA SmPC TAGRISSO (osimertinib)  
 9. Solomon, et al. ESMO 2023; 10. US PI OPDIVO (nivolumab); 11. EMA SmPC OPDIVO (nivolumab); 12. Merck press release (16 October 2023; KEYNOTE-671)  
 13. AstraZeneca press release (09 March 2023; AEGEAN); 14. Bristol Myers Squibb press release (22 September 2023; CheckMate 77T); 15. <https://www.clinicaltrials.gov/study/NCT03456063>



# IMpower010: DFS benefit and a positive OS trend observed with atezolizumab in the PD-L1 TC ≥1%, stage II–IIIA population

## DFS in PD-L1 TC ≥1%, stage II–IIIA NSCLC

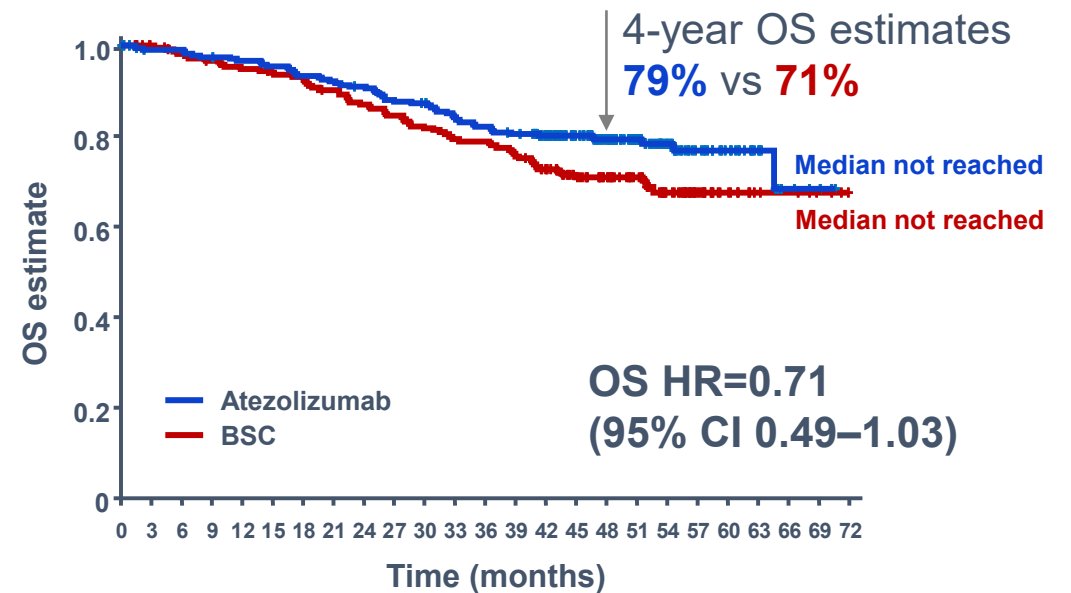
(primary endpoint)<sup>1,2</sup>  
(data cut-off: 21 January 2021;  
median follow-up: 32.8 months)



No. at risk	0	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54
Atezolizumab	248	235	225	217	206	198	190	181	159	134	111	76	54	31	22	12	8	3	3
BSC	228	212	186	169	160	151	142	135	117	97	80	59	38	21	14	7	6	4	3

## OS in PD-L1 TC ≥1%, stage II–IIIA NSCLC<sup>3,4</sup>

(data cut-off: 18 April 2022;  
median follow-up: 46 months)



No. at risk	0	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60	63	66	69	72
Atezolizumab	248	241	241	237	234	231	225	222	218	210	208	200	195	190	172	140	116	83	56	37	23	12	5	3	NE
BSC	228	220	214	210	205	201	198	192	185	180	172	167	166	158	140	110	95	72	49	27	15	8	7	4	NE

These data led to approvals in the USA, China, Japan, and other countries\*

First immunotherapy to report OS data with ~4 years of median follow-up in resectable NSCLC

\*In the EU, atezolizumab as monotherapy is indicated as adjuvant treatment following complete resection and platinum-based chemotherapy for adult patients with NSCLC with a high risk of recurrence whose tumours have PD-L1 expression on ≥50% of tumour cells and who do not have EGFR mutant or ALK-positive NSCLC<sup>5</sup>

The first pre-specified OS interim analysis is considered exploratory; stratified HRs

1. Wakelee, et al. ASCO 2021; 2. Felip, et al. Lancet 2021; 3. Felip, et al. WCLC 2022; 4. Felip, et al. Ann Oncol 2023; 5. EMA SmPC TECENTRIQ (atezolizumab)

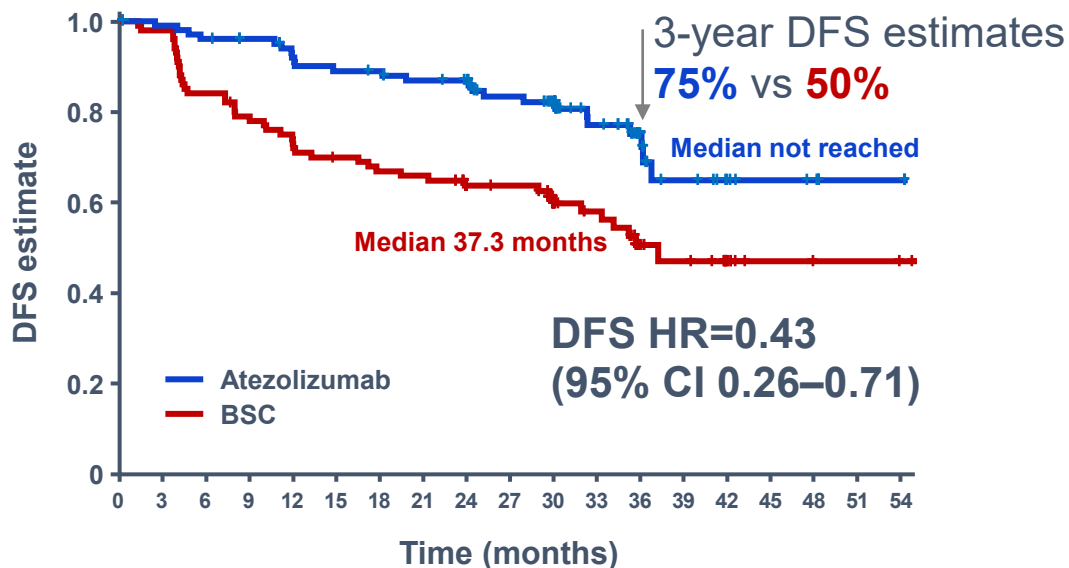


# IMpower010: DFS benefit and clinically meaningful OS trend in the PD-L1 ≥50%, stage II–IIIA population

## DFS in PD-L1 TC ≥50%, stage II–IIIA NSCLC<sup>1,2</sup>

Excluding *EGFR*+/*ALK*+  
(data cut-off: 21 January 2021;

median follow-up in stage II–IIIA population: 32.2 months)

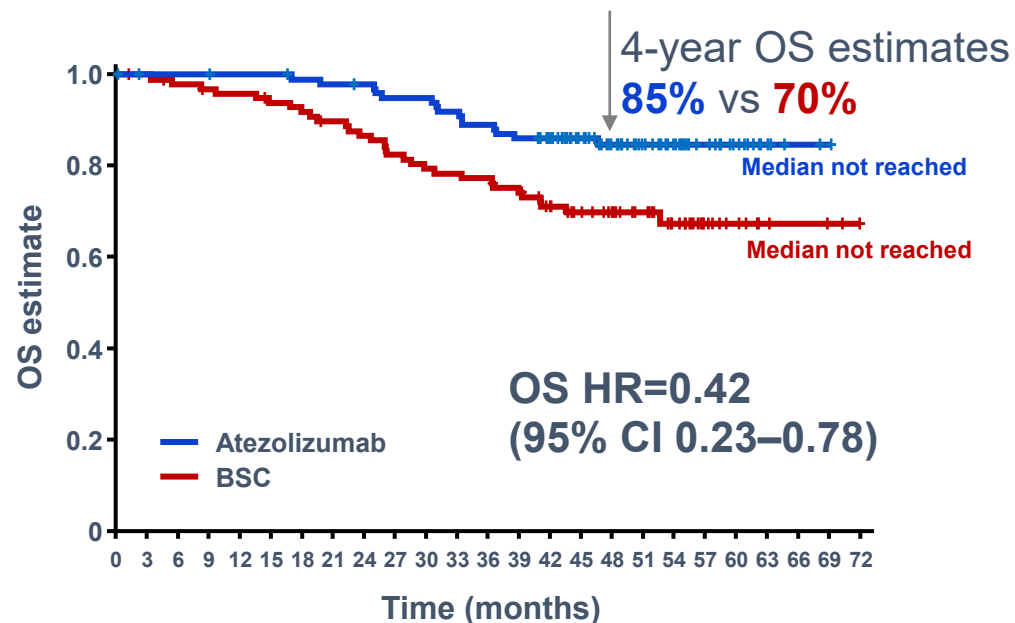


No. at risk	0	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54
Atezolizumab	106	98	89	87	78	56	26	9	4	1									
BSC	103	84	72	65	57	42	17	9	3	2									

## OS in PD-L1 TC ≥50%, stage II–IIIA NSCLC<sup>3,4</sup>

Excluding *EGFR*+/*ALK*+  
(data cut-off: 18 April 2022;

median follow-up in stage II–IIIA population: 45.1 months)



No. at risk	0	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60	63	66	69	72
Atezolizumab	106	104	104	104	103	103	101	100	99	96	96	93	90	87	83	69	58	41	32	20	13	6	2	1	NE
BSC	103	101	98	96	95	92	90	87	84	80	77	76	75	71	64	52	45	35	24	14	8	4	3	2	NE

These data led to approvals in the EU and other countries including Canada, the UK, and Switzerland\*

Unstratified HRs; the first pre-specified OS interim analysis is considered exploratory

\**EGFR*+/*ALK*+ NSCLC not excluded in Switzerland

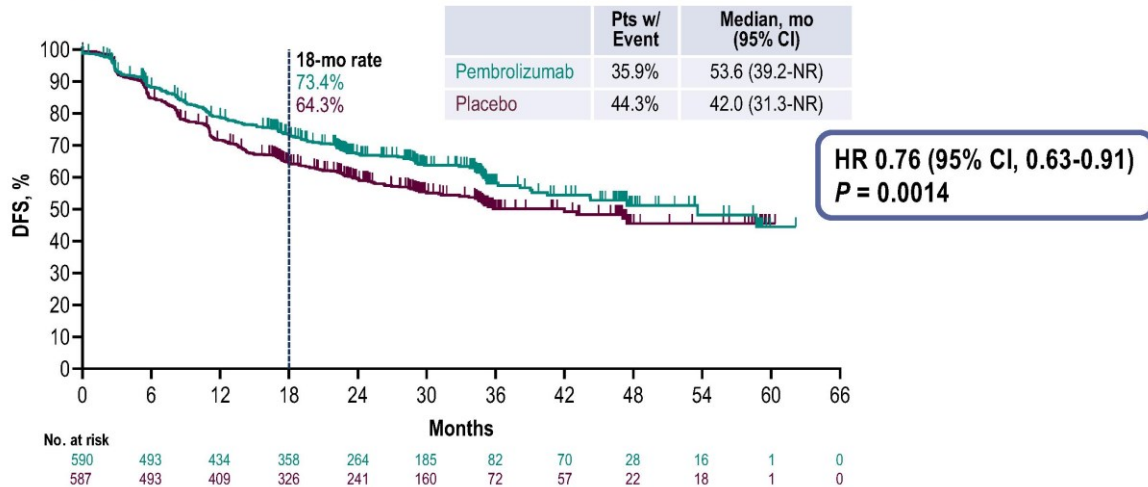
1. Felip, et al. ELCC 2022; 2. Felip, et al. Lancet 2021; 3. Felip, et al. WCLC 2022; 4. Felip, et al. Ann Oncol 2023



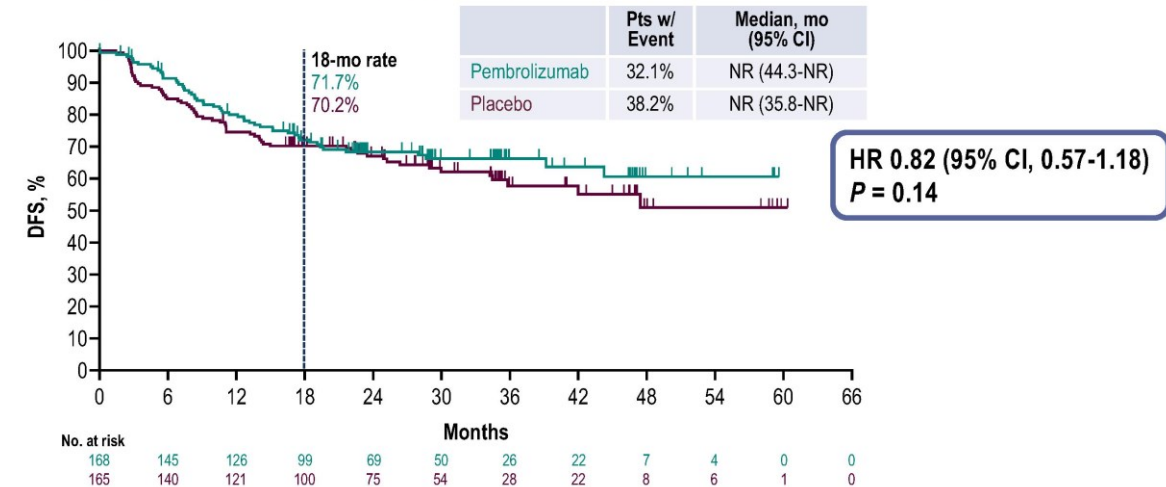
# KEYNOTE-091: adjuvant pembrolizumab improved DFS versus placebo in the overall study population



## DFS, Overall Population



## DFS, PD-L1 TPS ≥50% Population



ESMO VIRTUAL PLENARY

Response assessed per RECIST v1.1 by investigator review.  
Data cutoff date: September 20, 2021

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ESMO VIRTUAL PLENARY

Response assessed per RECIST v1.1 by investigator review.  
Data cutoff date: September 20, 2021

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DFS HR in patients who received prior chemotherapy: **all patients = 0.73; PD-L1 TPS ≥50% = 0.89**  
Approval for adjuvant pembrolizumab: following resection and platinum-based chemotherapy for patients at high risk of recurrence, irrespective of PD-L1 status

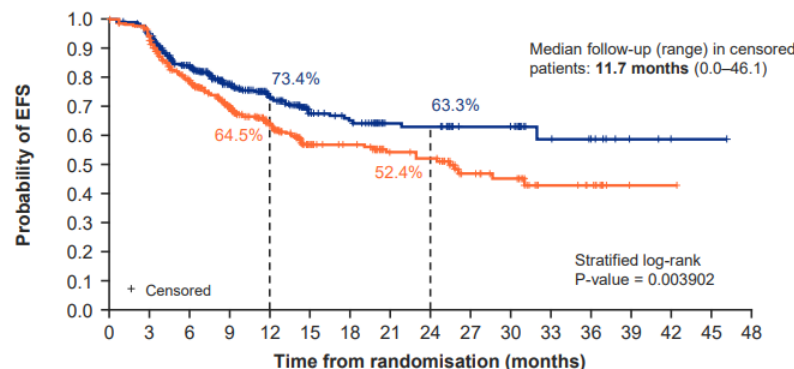
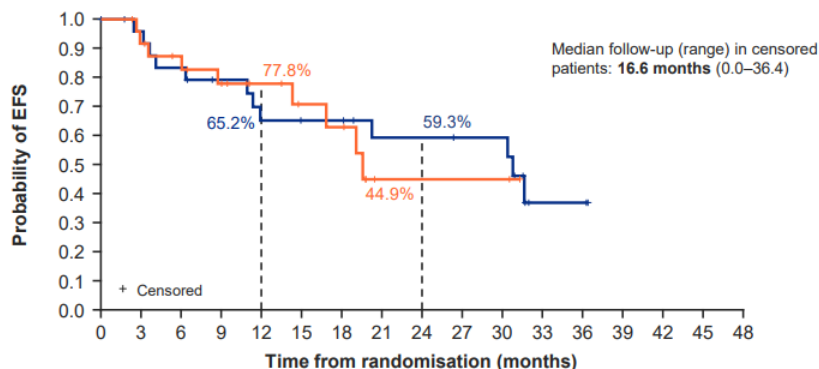


# Analysis of outcomes by *EGFR* status highlights the importance of biomarker testing in resectable NSCLC: AEGEAN study

## EFS using RECIST v1.1 (BICR) (*EGFR*m and mITT)\*

<i>EGFR</i> m subgroup	Durvalumab arm	Placebo arm
No. events / no. patients (%)	12/26 (46.2)	9/25 (36.0)
mEFS, months (95% CI)	30.8 (11.4, NR)	19.6 (14.3, NR)
Unstratified HR† (95% CI)	<b>0.86 (0.35, 2.19)</b>	

mITT population <sup>1</sup>	Durvalumab arm	Placebo arm
No. events / no. patients (%)	98/366 (26.8)	138/374 (36.9)
mEFS, months (95% CI)	NR (31.9, NR)	25.9 (18.9, NR)
Stratified HR† (95% CI)	<b>0.68 (0.53, 0.88)</b>	



No. at risk:

	0	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48
D arm	26	23	20	17	14	13	13	10	10	9	9	2	2	0	0	0	0
PBO arm	25	22	19	16	12	9	8	2	2	2	2	0	0	0	0	0	0

No. at risk:

	0	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48
D arm	366	336	271	194	140	90	78	50	49	31	30	14	11	3	1	1	0
PBO arm	374	339	257	184	136	82	74	53	50	30	25	16	13	1	1	0	0

DCO = Nov 10, 2022. \*Pre-planned analysis. EFS is defined as time from randomisation to the earliest of: (A) progressive disease (PD) that precludes surgery; (B) PD discovered and reported by the investigator upon attempting surgery that prevents completion of surgery; (C) local/distant recurrence using BICR per RECIST v1.1; or (D) death from any cause. HR <1 favours the D arm versus the PBO arm. Median and landmark EFS estimates calculated using the Kaplan–Meier method. †HR for the *EGFR*m subgroup calculated from an unstratified Cox proportional hazards model; HR for the mITT population calculated using a stratified Cox proportional hazards model. CI, confidence interval; D, durvalumab; HR, hazard ratio; mEFS, median EFS; NR, not reached; PBO, placebo.

<sup>1</sup>Heymach JV, et al. *Cancer Res* 2023;83 (8\_Supplement):CT005



David Harpole, Department of Surgery, Duke University Medical Center, Durham, North Carolina, USA

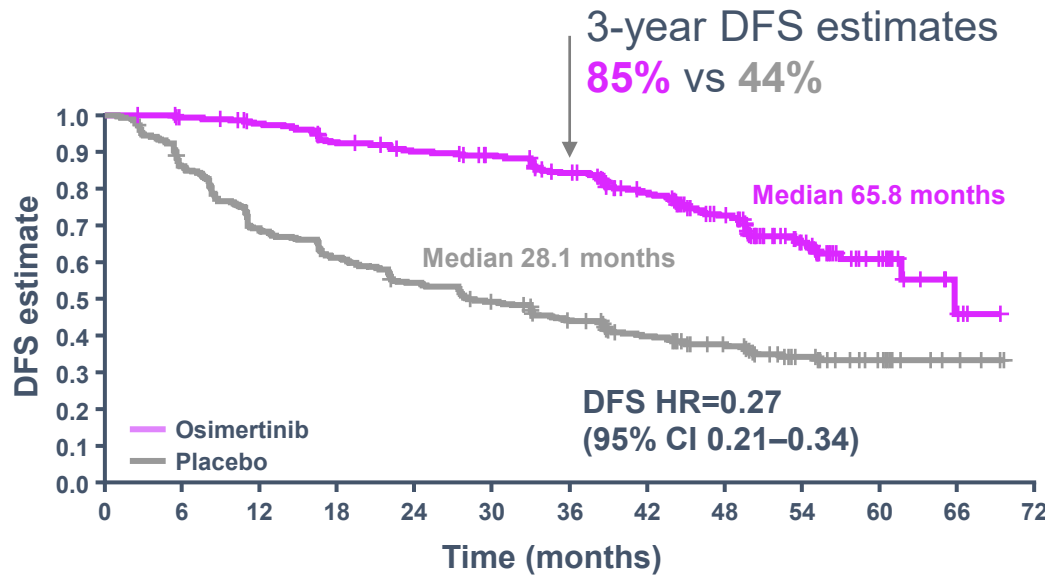




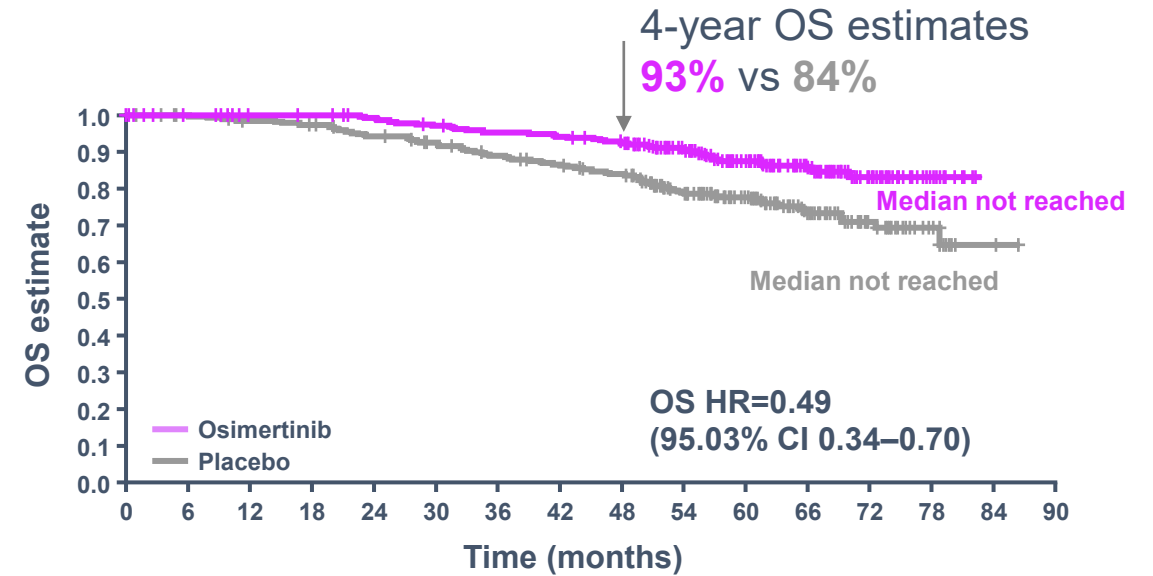
# ADAURA: improved DFS and OS with adjuvant osimertinib versus placebo in patients with *EGFR*<sup>+</sup>, stage II–IIIA NSCLC

DFS in stage IB–IIIA<sup>1</sup>

OS in stage IB–IIIA<sup>2,3</sup>



No. at risk	0	6	12	18	24	30	36	42	48	54	60	66	72
Osimertinib	339	316	307	289	278	270	249	201	139	73	33	5	0
Placebo	343	288	230	205	181	162	137	115	84	48	25	4	0



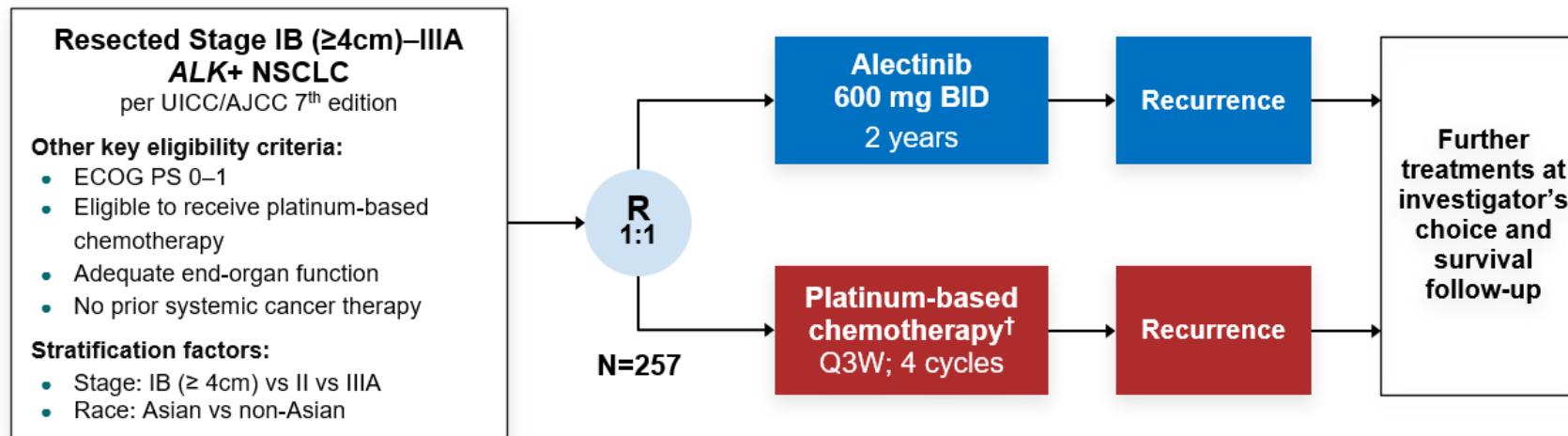
No. at risk	0	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90
Osimertinib	339	332	325	324	319	311	304	301	294	252	176	108	50	15	0	0
Placebo	343	338	332	326	314	304	290	281	267	223	164	97	44	17	3	0

1. Herbst, et al. J Clin Oncol 2023. Herbst et al., Adjuvant Osimertinib for Resected EGFR-Mutated Stage IB–IIIA Non–Small-Cell Lung Cancer: Updated Results From the Phase III Randomized ADAURA Trial, Journal of Clinical Oncology, volume 41, issue 10, <https://ascopubs.org/doi/10.1200/JCO.22.02186>; 2. Herbst, et al. ASCO 2023; 3. Tsuboi, et al. N Engl J Med 2023



# ALINA: adjuvant alectinib versus chemotherapy in patients with resected ALK+ NSCLC

## ALINA study design\*



### Primary endpoint

- DFS per investigator,<sup>‡</sup> tested hierarchically:
  - Stage II–IIIA → ITT (Stage IB–IIIA)

### Other endpoints

- CNS disease-free survival
- OS
- Safety

*Disease assessments (including brain MRI)<sup>§</sup> were conducted: at baseline, every 12 weeks for year 1–2, every 24 weeks for year 3–5, then annually*



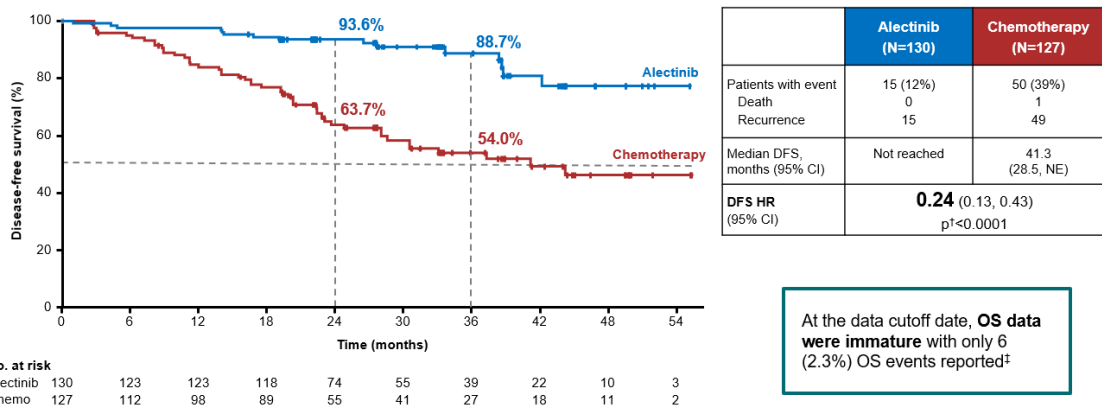
Data cut-off: 26 June 2023; CNS, central nervous system; DFS, disease-free survival; ITT, intention to treat  
<sup>\*</sup>Superiority trial; <sup>†</sup>Cisplatin + pemetrexed, cisplatin + vinorelbine or cisplatin + gemcitabine; cisplatin could be switched to carboplatin in case of intolerability; <sup>‡</sup>DFS defined as the time from randomisation to the first documented recurrence of disease or new primary NSCLC as determined by the investigator, or death from any cause, whichever occurs first; <sup>§</sup>Assessment by CT scan where MRI not available; NCT03456076



# ALINA: adjuvant alectinib improved DFS and CNS-DFS versus chemotherapy in patients with resected ALK+ NSCLC

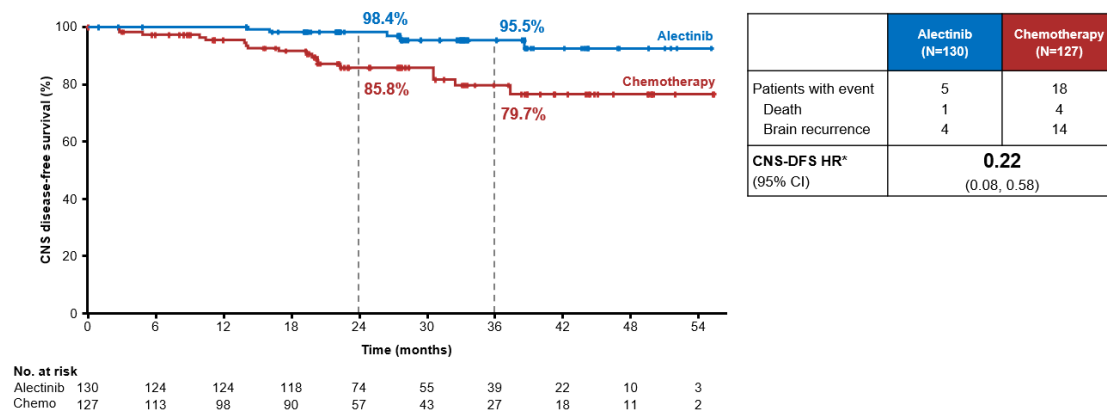


## Disease-free survival: ITT (stage IB–IIIA)\*



Median survival follow up: alectinib, 27.8 months; chemotherapy, 28.4 months

## CNS disease-free survival in the ITT population



Median survival follow up: alectinib, 27.8 months; chemotherapy, 28.4 months



Data cut-off: 26 June 2023. Time from last patient in to data cut off was ~18 months  
<sup>\*</sup>Per UICC/AJCC 7<sup>th</sup> edition; <sup>†</sup>Stratified log rank; <sup>‡</sup>2 events in the alectinib arm, 4 events in the chemo arm; one additional patient in the chemo arm died but was censored due to incomplete date of death recorded. DFS defined as the time from randomisation to the first documented recurrence of disease or new primary NSCLC as determined by the investigator, or death from any cause, whichever occurs first

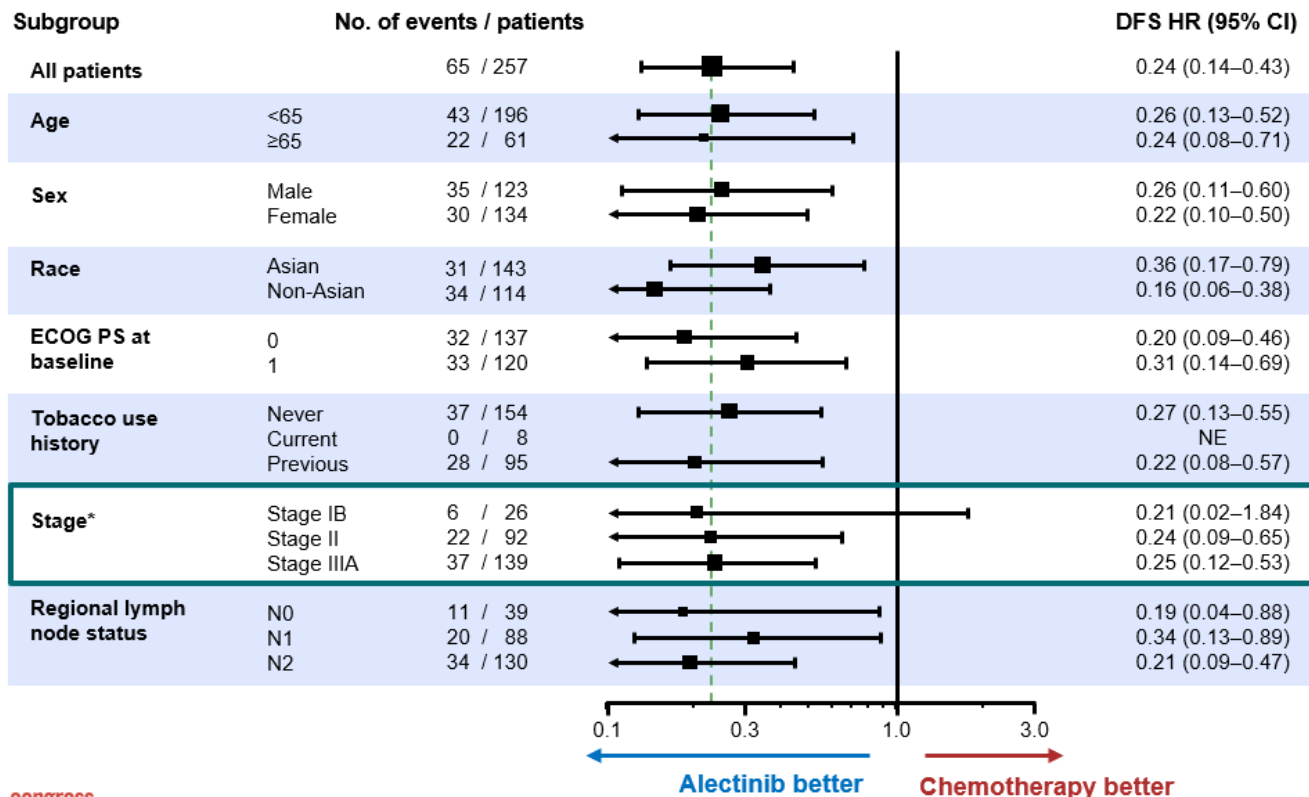


Data cut-off: 26 June 2023  
<sup>\*</sup>Stratified analysis with race and stage as stratification factors  
 CNS-DFS defined as time from randomisation to the first documented recurrence of disease in the CNS or death from any cause



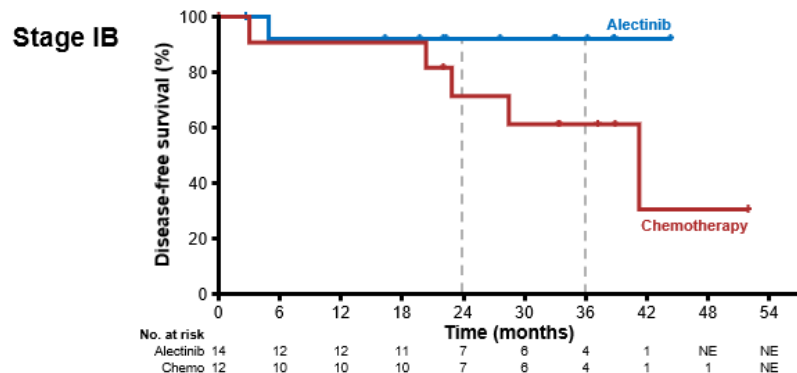
# ALINA: DFS benefit with alectinib versus chemotherapy was seen across all subgroups

## Disease-free survival subgroup analysis (ITT)

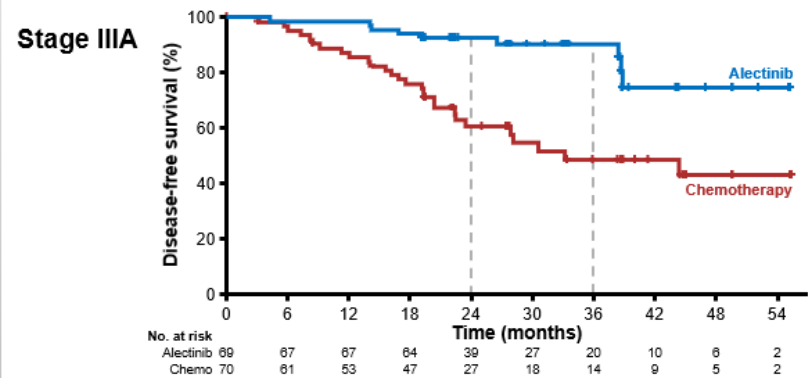
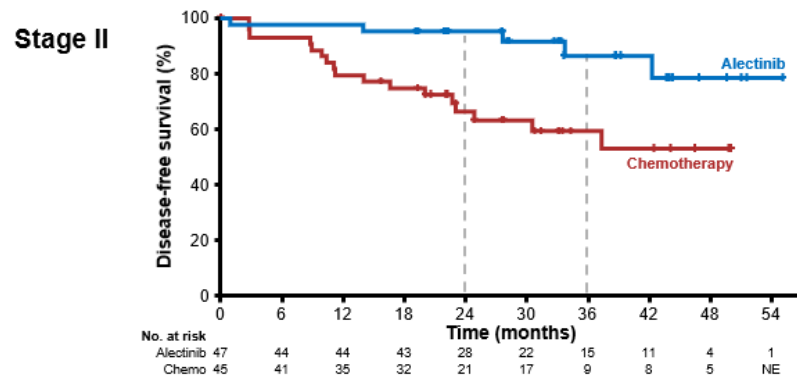


# ALINA: DFS benefit with alectinib versus chemotherapy was seen across all disease stages included in the study

## Disease-free survival by stage\*



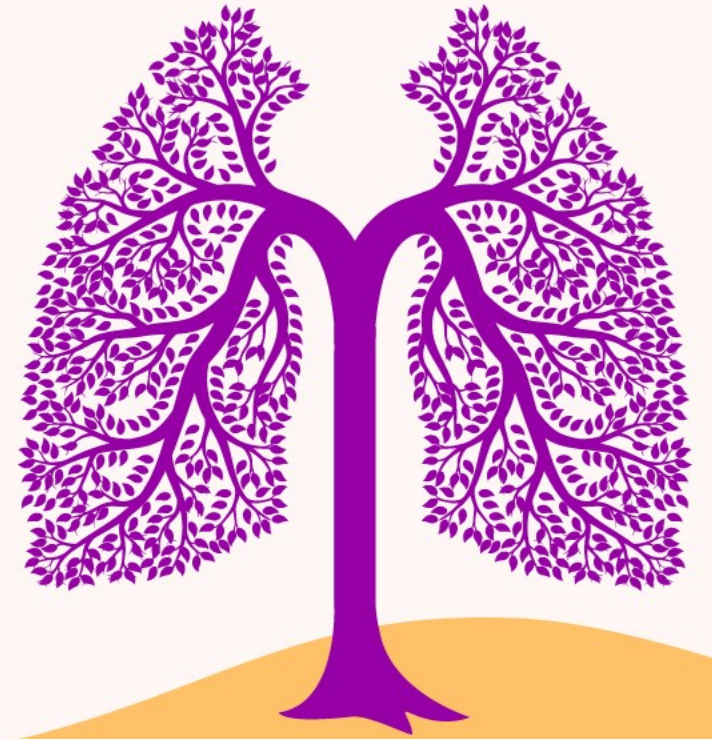
2-year DFS rate, % (95% CI)	Stage IB (n=26)	Stage II (n=92)	Stage IIIA (n=139)
<b>Alectinib</b>	<b>92.3</b> (77.8, 100.0)	<b>95.6</b> (89.5, 100.0)	<b>92.7</b> (86.4, 98.9)
<b>Chemotherapy</b>	<b>71.6</b> (44.2, 99.0)	<b>66.3</b> (51.7, 81.0)	<b>60.7</b> (47.9, 73.5)
<b>HR† (95% CI)</b>	<b>0.21</b> (0.02, 1.84)	<b>0.24</b> (0.09, 0.65)	<b>0.25</b> (0.12, 0.53)



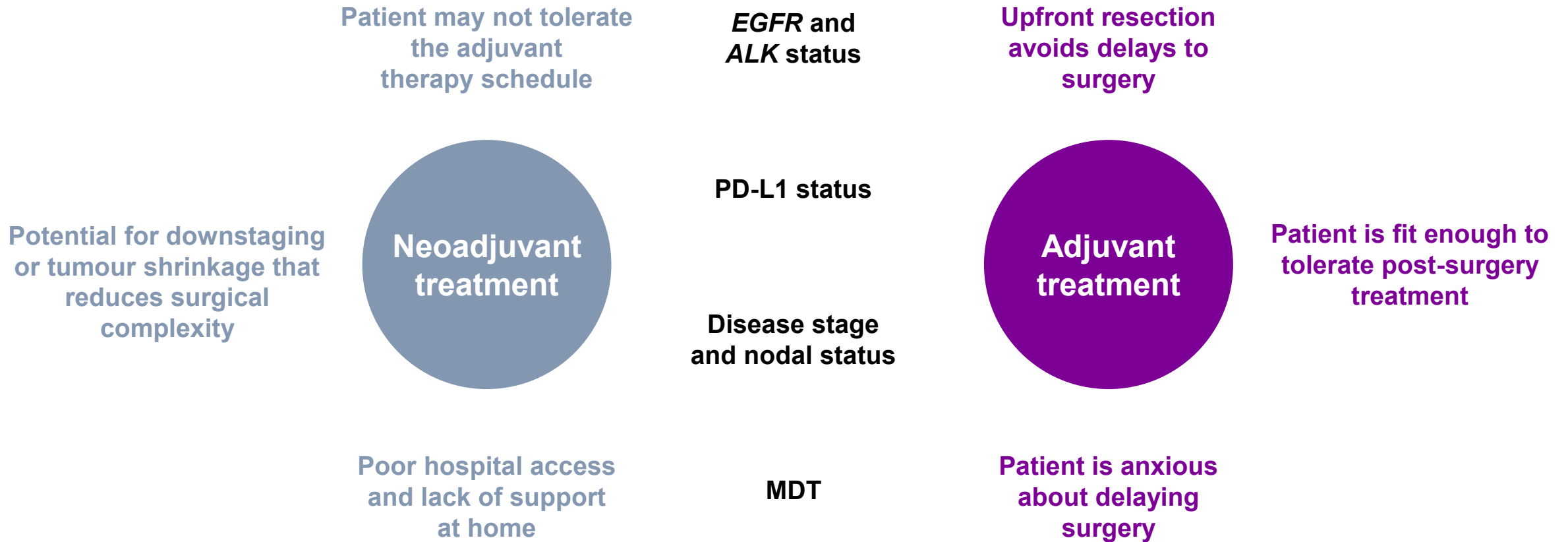
Data cut-off: 26 June 2023  
\*Per UICC/AJCC 7<sup>th</sup> edition; †Unstratified analysis



The surgeon's perspective

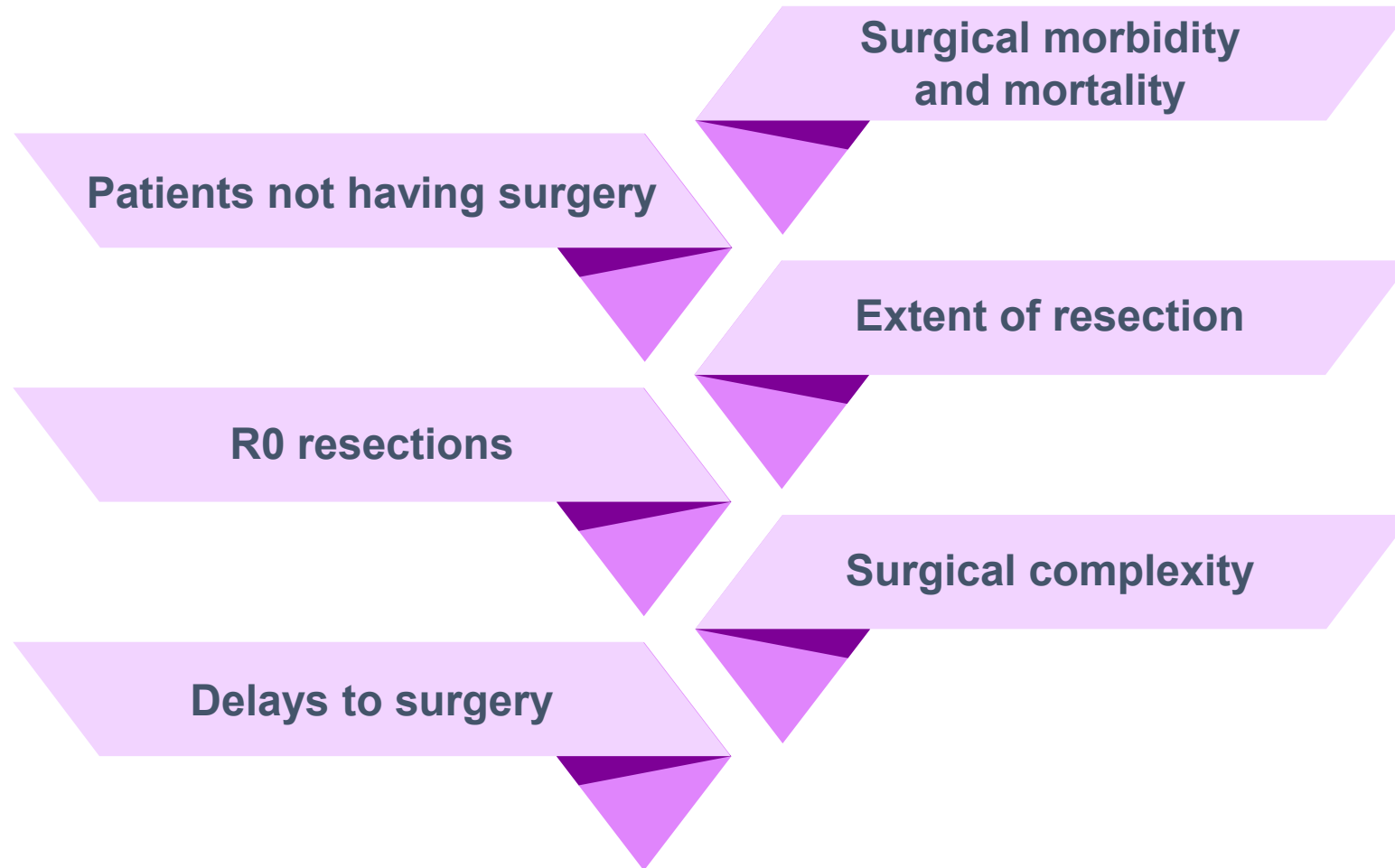


# A wide range of factors inform treatment decisions around adjuvant and neoadjuvant therapy



# How neoadjuvant therapy impacts surgical decision making?

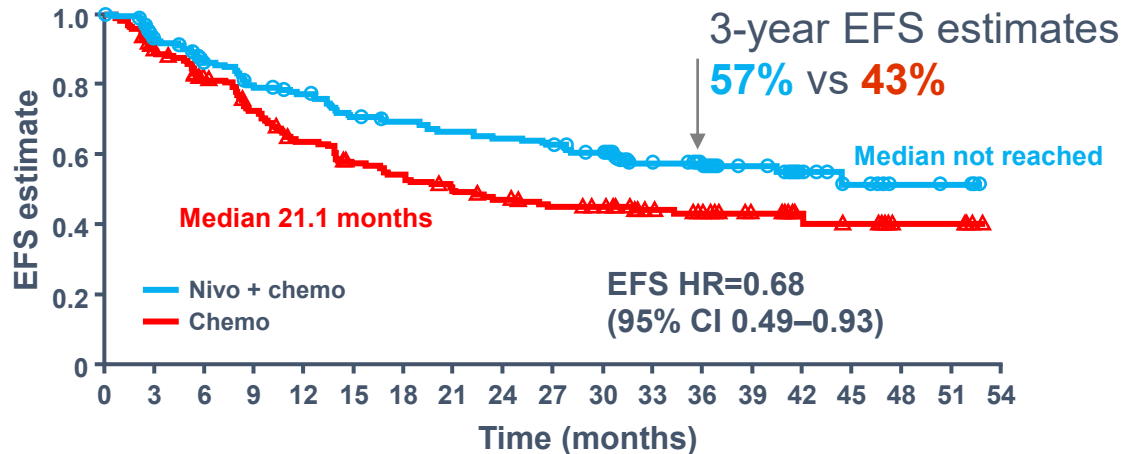
## Key surgical outcomes to consider





# CheckMate 816: neoadjuvant nivolumab + chemotherapy improved EFS versus chemotherapy alone

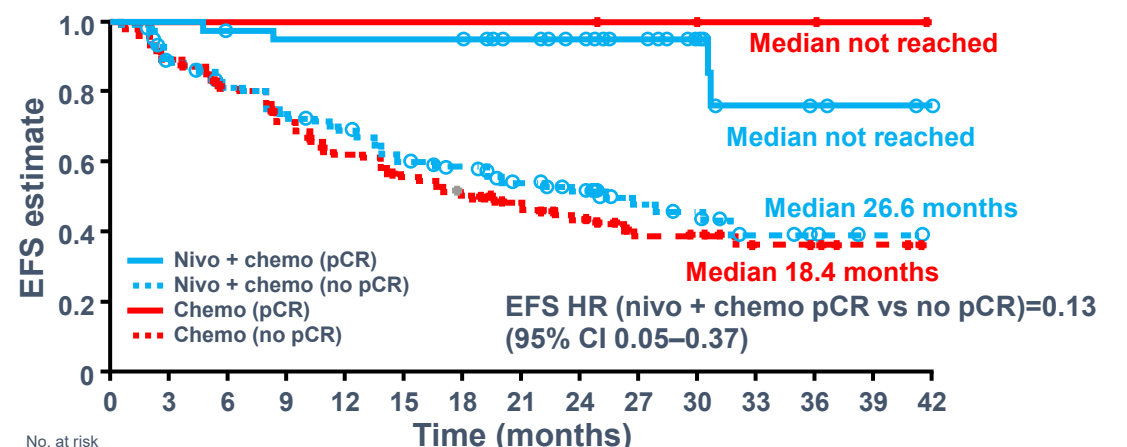
EFS in the ITT population\*<sup>1</sup>  
(3-year update)



No. at risk	0	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54
Nivo + chemo	179	152	136	125	119	108	104	100	97	94	88	69	57	38	20	13	6	5	0
Chemo	179	146	128	110	95	84	79	72	67	62	60	48	39	27	15	13	4	4	0

EFS by pCR status in the ITT population<sup>2,3</sup>

pCR rates<sup>†4</sup>  
**Nivo + chemo: 24%**  
**Chemo: 2%**



No. at risk	0	3	6	9	12	15	18	21	24	27	30	33	36	39	42
pCR	43	43	41	40	40	40	40	35	32	19	14	6	3	2	0
no pCR	4	4	4	4	4	4	4	4	4	3	2	2	2	1	0
No pCR	136	108	95	84	78	67	62	52	42	22	20	7	3	1	0
Chemo pCR	175	140	122	105	90	79	71	57	48	23	22	11	9	3	0
Chemo no pCR															

**OS HR (3-year update): 0.62 (99.34% CI 0.36-1.05)<sup>1</sup>**

In the EU, nivolumab is indicated in combination with chemotherapy as neoadjuvant treatment for adult patients with NSCLC with a high risk of recurrence whose tumours have PD-L1 expression on ≥1% of tumour cells;<sup>5</sup> minimum follow-up for 3-year EFS update: 32.9 months (median follow-up, 41.4 months); minimum follow-up: for EFS by pCR analysis: 21 months (median follow-up: 29.5 months)

\*Exploratory analysis; †pCR: 0% residual viable tumour cells in both primary tumour (lung) and sampled lymph nodes

1. Girard, et al. ELCC 2023; 2. Girard, et al. AACR 2022; 3. Forde, et al. N Eng J Med 2022; 4. Forde, et al. AACR 2021; 5. EMA SmPC OPDIVO (nivolumab)



# CheckMate 816: the addition of neoadjuvant nivolumab to chemotherapy did not have a negative impact on surgical outcomes

ITT population	Nivolumab + chemotherapy (N=179)	Chemotherapy (N=179)
Patients with definitive surgery	83%	75%
Patients with delayed surgery*†	21%	18%
<b>Type of surgery*‡</b>		
Pneumonectomy	17%	25%
Lobectomy	77%	61%
<b>Resection rate*</b>		
R0	83%	78%
R1 / R2	11% / 3%	16% / 3%
<b>Surgery-related AEs§</b>		
Any grade	41%	47%
Grade 3–4	11%	15%

~20% of patients  
do not undergo surgery

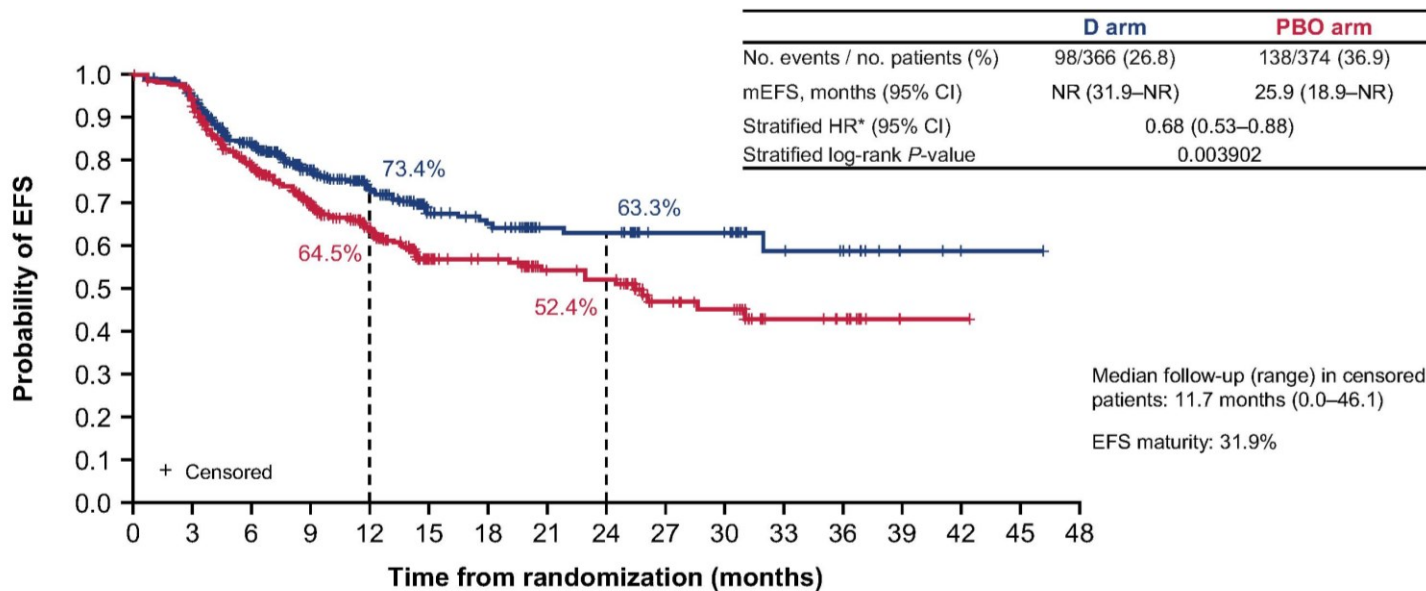
**Grade 5 surgery-related AEs¶ were reported in 2 patients in the nivolumab + chemotherapy arm (pulmonary embolism n=1; aortic rupture n=1) and were deemed unrelated to study drug per investigator**

\*Denominator based on patients with definitive surgery; †delayed surgery defined as time from last neoadjuvant dose to surgery >6 weeks; ‡patients may have had more than one surgery type  
§includes events reported up to 90 days after definitive surgery; ¶defined as events that led to death within 24 hours of AE onset  
Spicer, et al. ASCO 2021; Forde, et al. N Engl J Med 2022; Forde, et al. AACR 2021



# AEGEAN: perioperative durvalumab + neoadjuvant chemotherapy improved EFS versus placebo + neoadjuvant chemotherapy

EFS using RECIST v1.1 (BICR) (mITT)  
 First planned interim analysis of EFS



No. at risk:

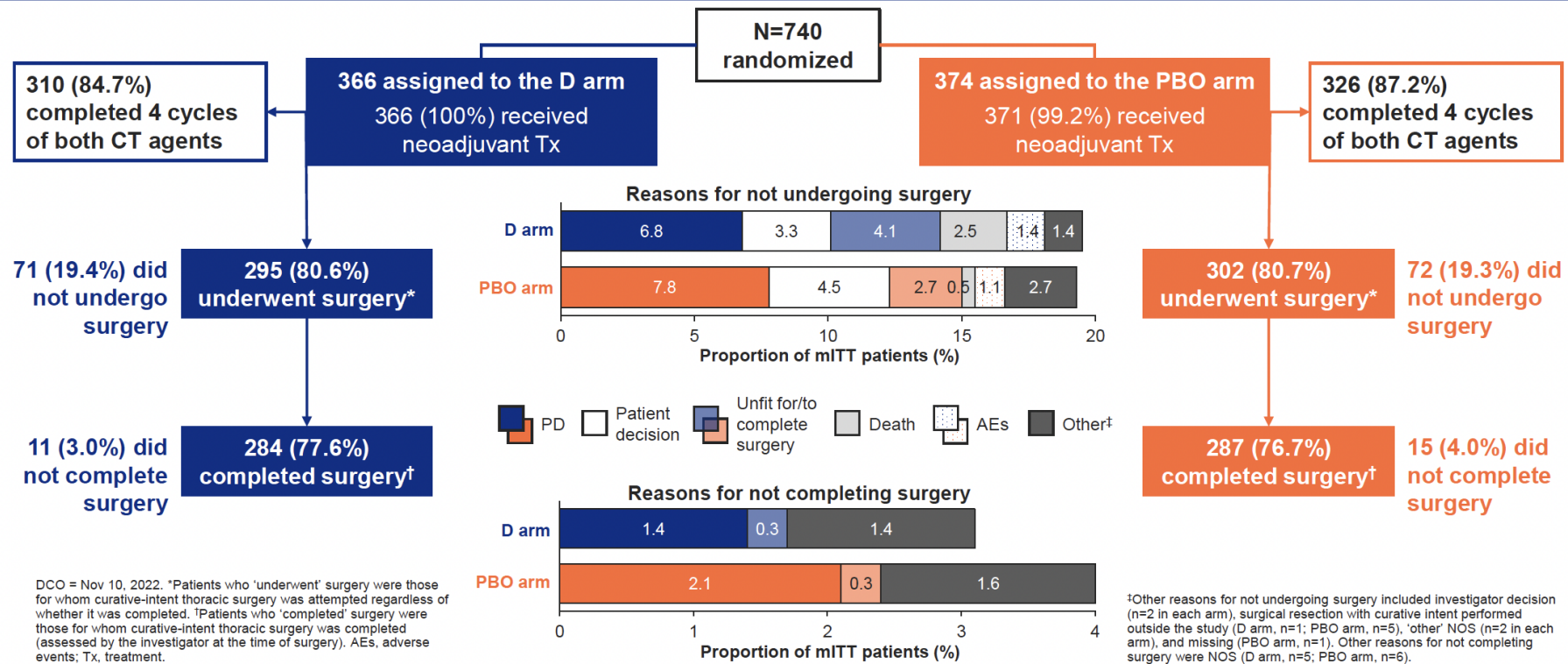
	0	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48
D arm	366	336	271	194	140	90	78	50	49	31	30	14	11	3	1	1	0
PBO arm	374	339	257	184	136	82	74	53	50	30	25	16	13	1	1	0	0

DCO = Nov 10, 2022. EFS is defined as time from randomization to the earliest of: (A) progressive disease (PD) that precludes surgery; (B) PD discovered and reported by the investigator upon attempting surgery that prevents completion of surgery; (C) local/distant recurrence using BICR per RECIST v1.1; or (D) death from any cause. \*HR <1 favors the D arm versus the PBO arm. Median and landmark estimates calculated using the Kaplan–Meier method; HR calculated using a stratified Cox proportional hazards model; and P-value calculated using a stratified log rank test. Stratification factors: disease stage (II vs III) and PD-L1 expression status (<1% vs ≥1%). Significance boundary = 0.009899 (based on total 5% alpha), calculated using a Lan-DeMets alpha spending function with O'Brien Fleming boundary. mEFS, median EFS; NR, not reached.



# AEGEAN: the addition of neoadjuvant durvalumab to chemotherapy did not have a negative impact on surgical outcomes

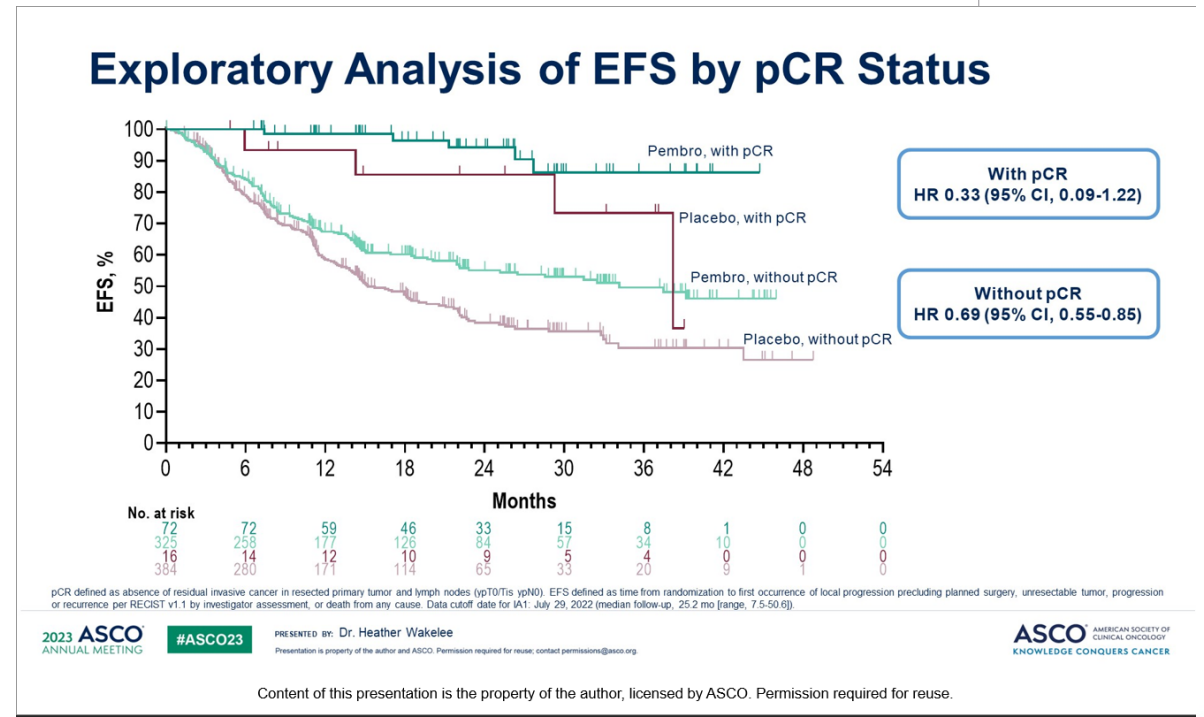
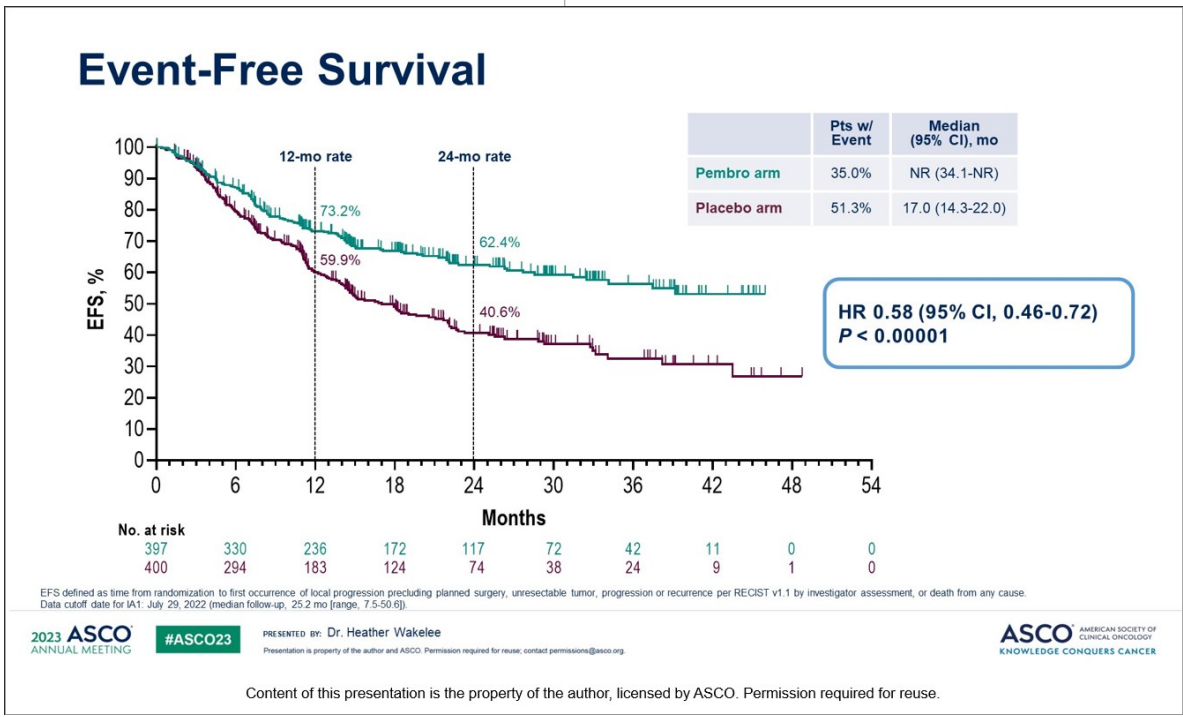
## Planned treatment and surgery summary (mITT)



Tetsuya Mitsudomi, Division of Thoracic Surgery, Department of Surgery, Kindai University Faculty of Medicine, Osaka-Sayama, Japan



# KEYNOTE-671: EFS benefit was seen with perioperative pembrolizumab + chemotherapy versus placebo



# KEYNOTE-671: addition of neoadjuvant pembrolizumab to chemotherapy did not have a negative impact on surgical outcomes

## Surgical Details

	Pembro Arm N = 325	Placebo Arm N = 317
<b>In-Study Surgery<sup>a</sup></b>		
Resected	320 (98.5%)	302 (95.3%)
Complete - R0	299 (92.0%)	267 (84.2%)
Incomplete - R1	17 (5.2%)	31 (9.8%)
Incomplete - R2	4 (1.2%)	4 (1.3%)
Unresected	5 (1.5%)	15 (4.7%)
<b>Surgical procedure</b>		
Lobectomy	256 (78.8%)	238 (75.1%)
Pneumonectomy	37 (11.4%)	39 (12.3%)
Bilobectomy	26 (8.0%)	26 (8.2%)
Exploratory thoracotomy	4 (1.2%)	13 (4.1%)
Other	2 (0.6%) <sup>b</sup>	1 (0.3%) <sup>c</sup>
<b>30-day all-cause mortality</b>	6 (1.8%) <sup>d</sup>	2 (0.6%) <sup>e</sup>

<sup>a</sup> An additional 8 participants in the pembro arm and 7 participants in the placebo arm underwent off-study surgery. <sup>b</sup> Lung segmentectomy (n=1), lung wedge resection (n=1). <sup>c</sup> Lymph node dissection only (planned surgery was lung lobectomy; need for more extensive surgery discovered during surgery, but consent was not granted). <sup>d</sup> Pulmonary embolism (n=2), pulmonary hemorrhage due to arterial injury during surgery (n=1), pulmonary sepsis (n=1), respiratory failure (n=1), and septic shock (n=1). <sup>e</sup> Respiratory failure (n = 1) and pneumonia (n = 1) Data cutoff date for IA1: July 29, 2022.

2023 ASCO  
ANNUAL MEETING

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PRESENTED BY: Dr. Heather Wakelee

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# Recent data are changing our approach to treatment decision-making in resectable NSCLC

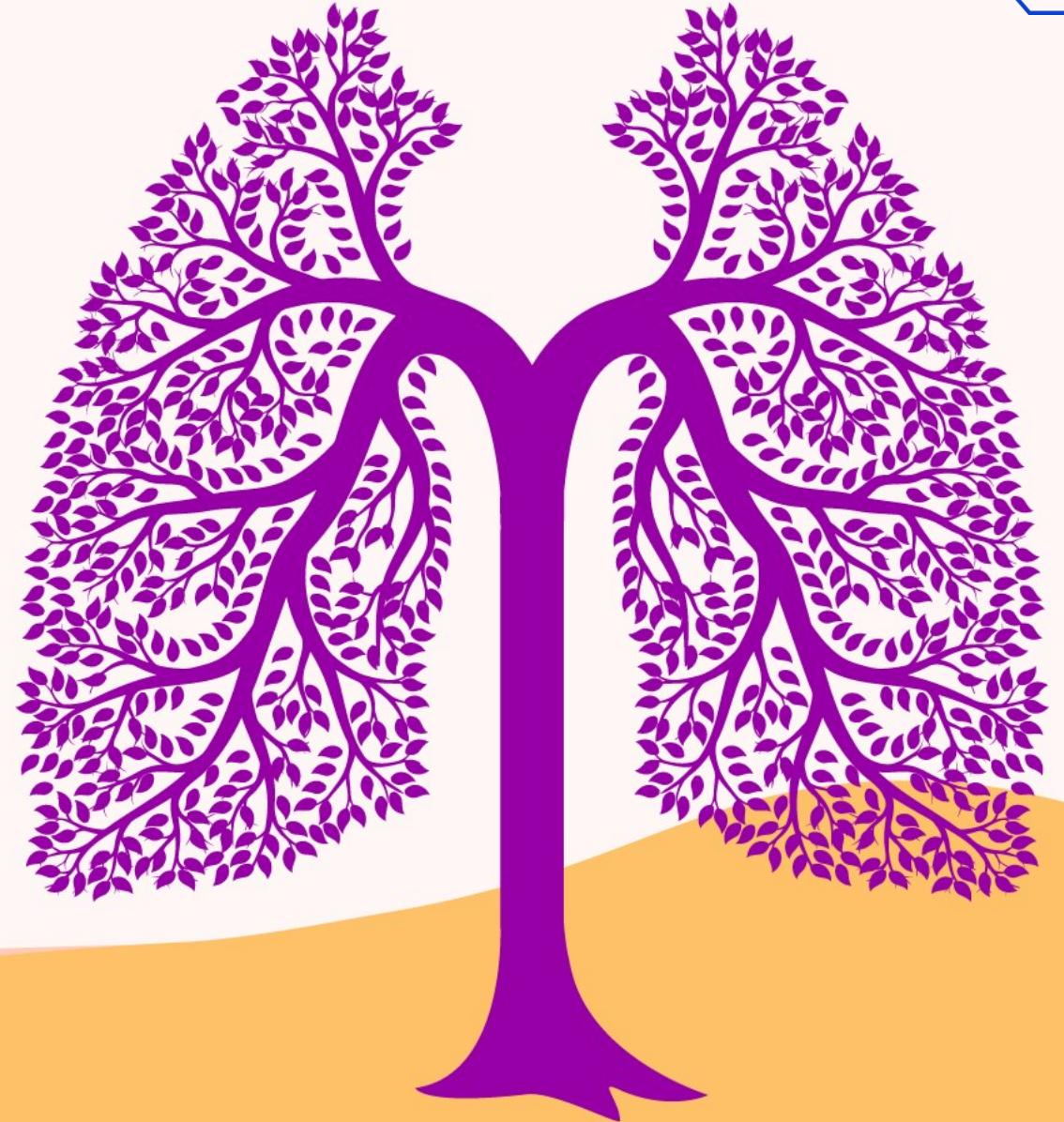
- **Cancer immunotherapy** and **targeted therapies** in the adjuvant and neoadjuvant setting have emerged as new efficacious treatment options in resectable NSCLC and some are available in clinical practice<sup>1–7</sup>
  - The full potential of perioperative regimens is still emerging
  - Further development of targeted therapies against ‘new’ biomarkers is key to optimising treatment<sup>8</sup>
- Multidisciplinary shared decision making and a wide range of factors should inform when to initiate systemic treatment, i.e. before or after surgery:
  - Disease characteristics (e.g. disease stage, biomarker status); assessment of **resectability** and **operability** for definitive surgery; patient characteristics and preference<sup>9,10</sup>
- The evolving treatment landscape requires that all patients with resectable NSCLC undergo PD-L1, *EGFR* and *ALK* biomarker testing **before systemic treatment decisions are made**<sup>9</sup>

1. US PI TECENTRIQ (atezolizumab); 2. EMA SmPC TECENTRIQ (atezolizumab); 3. US PI KEYTRUDA (pembrolizumab); 4. US PI TAGRISSO (osimertinib); 5. EMA SmPC TAGRISSO (osimertinib)  
6. US PI OPDIVO (nivolumab); 7. EMA SmPC OPDIVO (nivolumab); 8. Pakkala & Ramalingam. JCI Insight 2018; 9. Referenced with permission from the NCCN Clinical Practice Guidelines in Oncology (NCCN Guidelines®) for **Non-Small Cell Lung Cancer V.3.2023**. © National Comprehensive Cancer Network, Inc. 2023. All rights reserved. Accessed 17 October 2023. To view the most recent and complete version of the guideline, go online to NCCN.org. NCCN makes no warranties of any kind whatsoever regarding their content, use or application and disclaims any responsibility for their application or use in any way; 10. Postmus, et al. Ann Oncol 2017



ESMO 2023 Industry Satellite Symposium

# Redefining Lung Cancer Together: A New Era for Patients







## Alba Silverio Pons

Operational Research Nurse  
Vall d'Hebron Institute of Oncology (VHIO)  
Barcelona, Spain

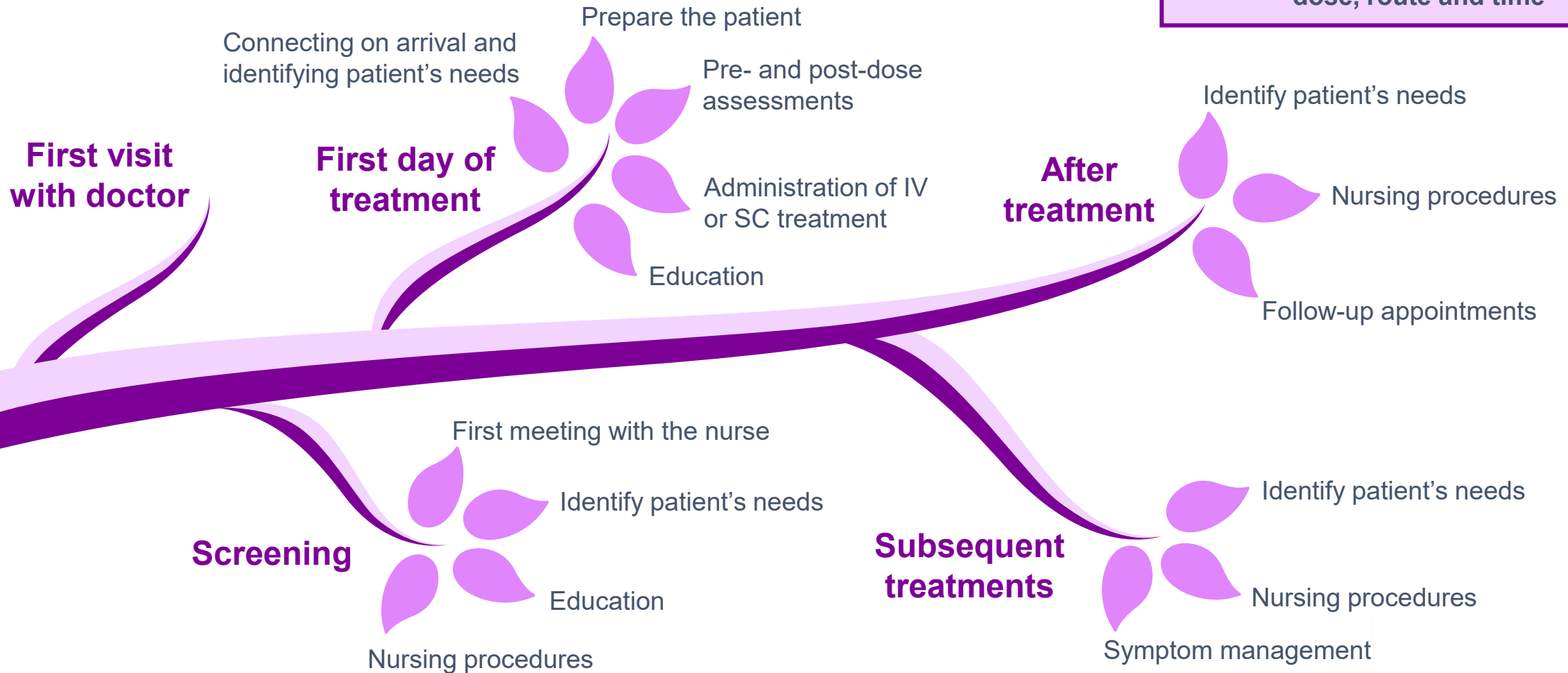
# A look at the patient journey through the lens of the nurse



# Nurses carry out an essential role throughout the patient journey<sup>1-3</sup>

Nurse insights on a patient's needs can help optimise care

The right patient, medication, dose, route and time



1. Young, et al. Lancet Oncol 2020; 2. Role of the oncology nurse, from Holland-Frei Cancer Medicine. 6th edition; 3. Olsen, et al. J Comp Eff Res 2018



# What matters most to patients with lung cancer?

## Three overarching themes

**Positive effects or  
expected gains  
from treatment**

**Negative effects or  
adverse events  
related to treatment**

**Uncertainty  
regarding the  
duration and type  
of treatment effects**



# Drug-related factors that can influence cancer treatment decisions

**Right medication for  
the right patient at the  
right time**

**Efficacy**

**Safety**

**Route of administration**

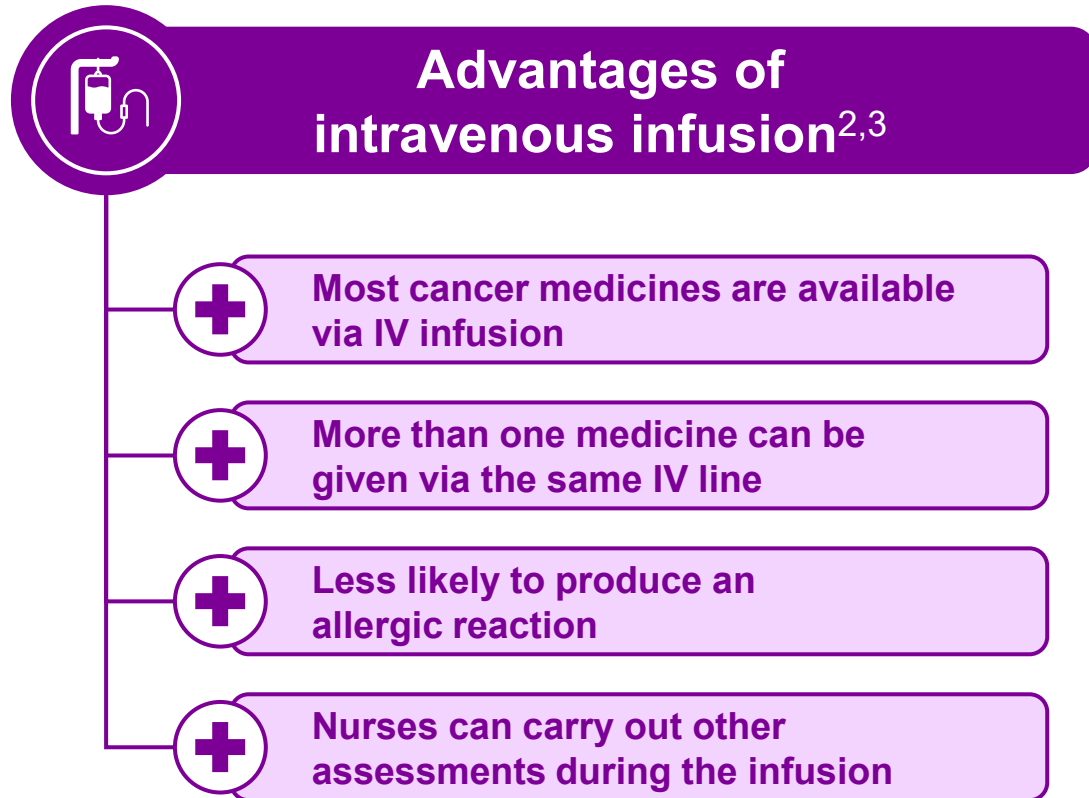
**Dosing frequency**

**Monitoring**

**Nurses can  
improve a patient's  
experience of the  
treatment  
and can help them  
engage more  
effectively with the  
care team<sup>1,2</sup>**



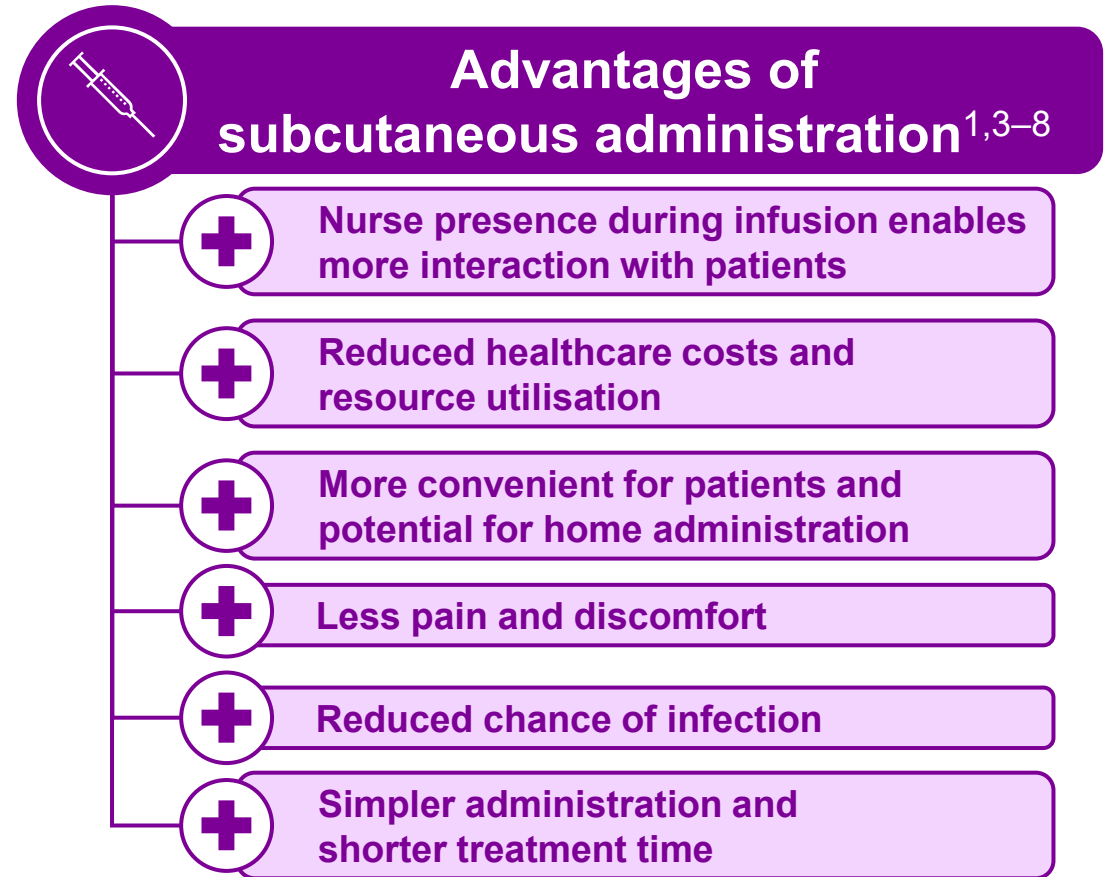
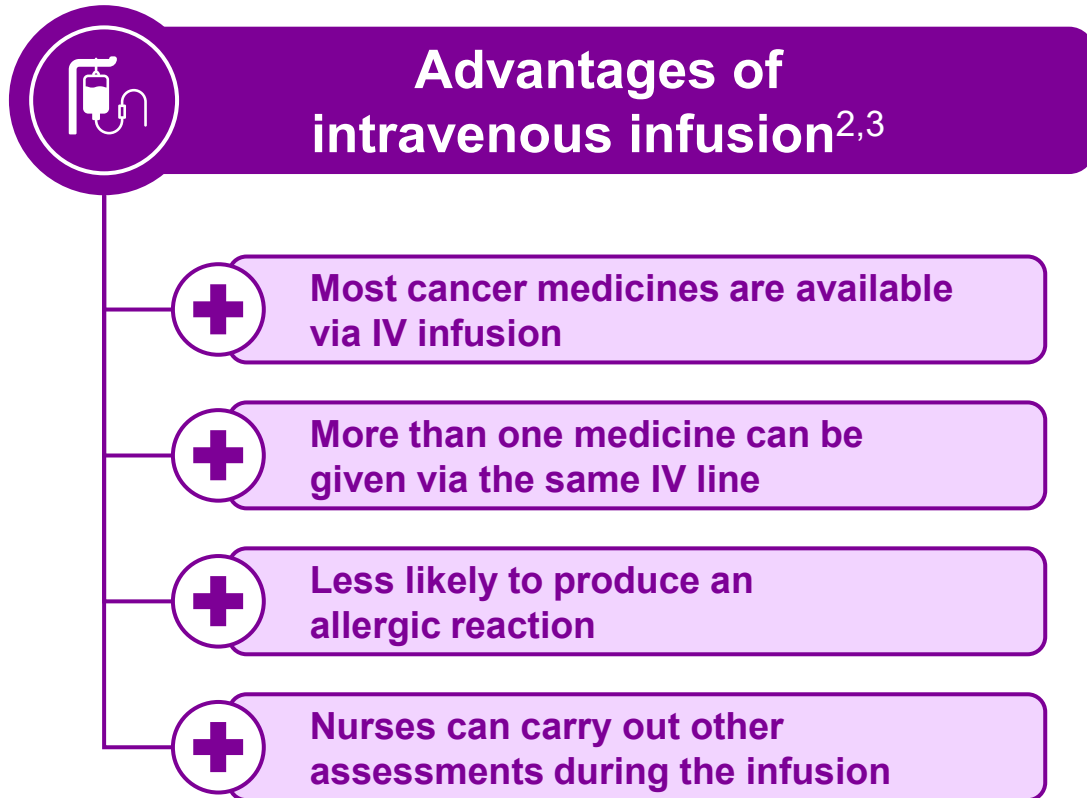
# Delivering cancer medicines in different ways can help make cancer care systems more economically sustainable<sup>1</sup>



1. Stoner, et al. Patient 2015; 2. Healthline, Intravenous Medication Administration: What to Know. July 2021. Available at: <https://www.healthline.com/health/intravenous-medication-administration-what-to-know>  
3. Leveque. Anticancer Res 2014; 4. Bittner, et al. BioDrugs 2018; 5. Anderson, et al. Future Oncol 2019; 6. Lin, et al. BMJ Open 2023; 7. De Cock, et al. Value Health 2014  
8. Olsen, et al. J Comp Eff Res 2018; 9. Denys, et al. Breast Cancer Res Treat 2020; 10. O'Shaughnessy, et al. Eur J Cancer 2021; 11. Jackish, et al. Geburtshilfe Frauenheilkd 2014



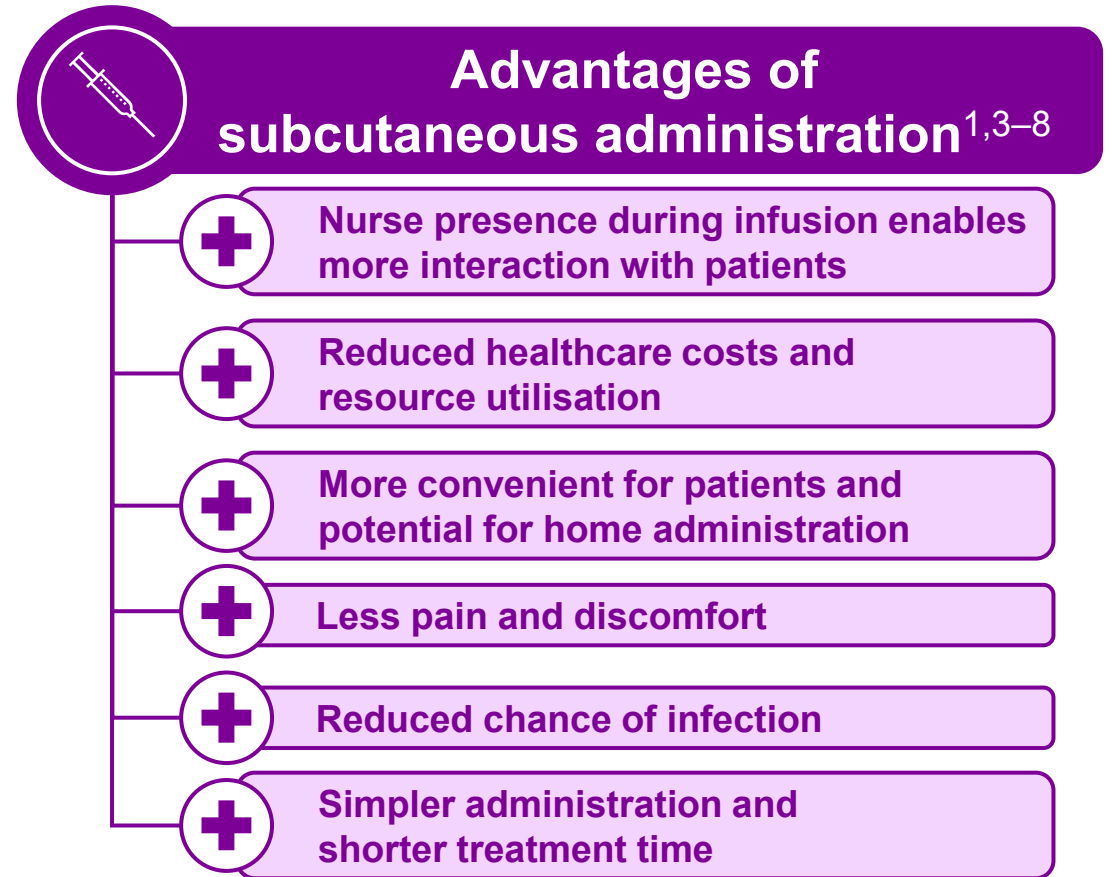
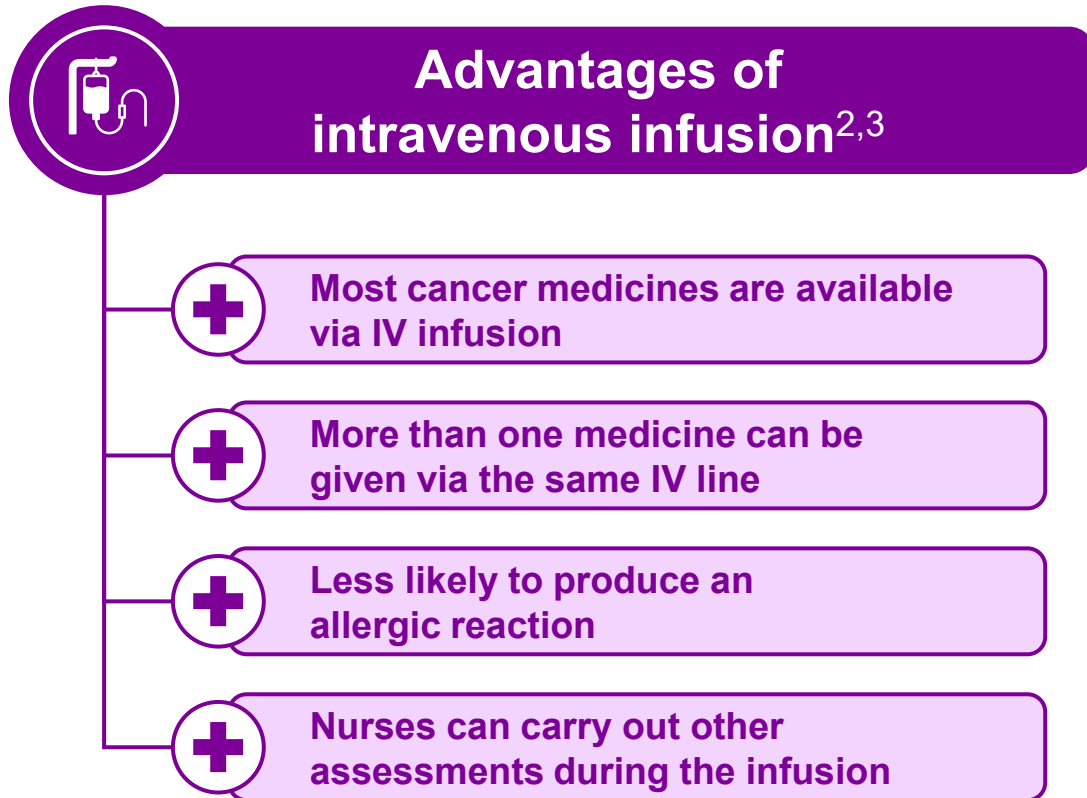
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# Delivering cancer medicines in different ways can help make cancer care systems more economically sustainable<sup>1</sup>



Many patients and healthcare professionals prefer an SC administration route<sup>1,3-5,8-11</sup>

1. Stoner, et al. Patient 2015; 2. Healthline, Intravenous Medication Administration: What to Know. July 2021. Available at: <https://www.healthline.com/health/intravenous-medication-administration-what-to-know>  
3. Leveque. Anticancer Res 2014; 4. Bittner, et al. BioDrugs 2018; 5. Anderson, et al. Future Oncol 2019; 6. Lin, et al. BMJ Open 2023; 7. De Cock, et al. Value Health 2014  
8. Olsen, et al. J Comp Eff Res 2018; 9. Denys, et al. Breast Cancer Res Treat 2020; 10. O'Shaughnessy, et al. Eur J Cancer 2021; 11. Jackish, et al. Geburtshilfe Frauenheilkd 2014



# The nurse perspective: my personal experience

**Relationship with patients**

**Education**

**Administration route**

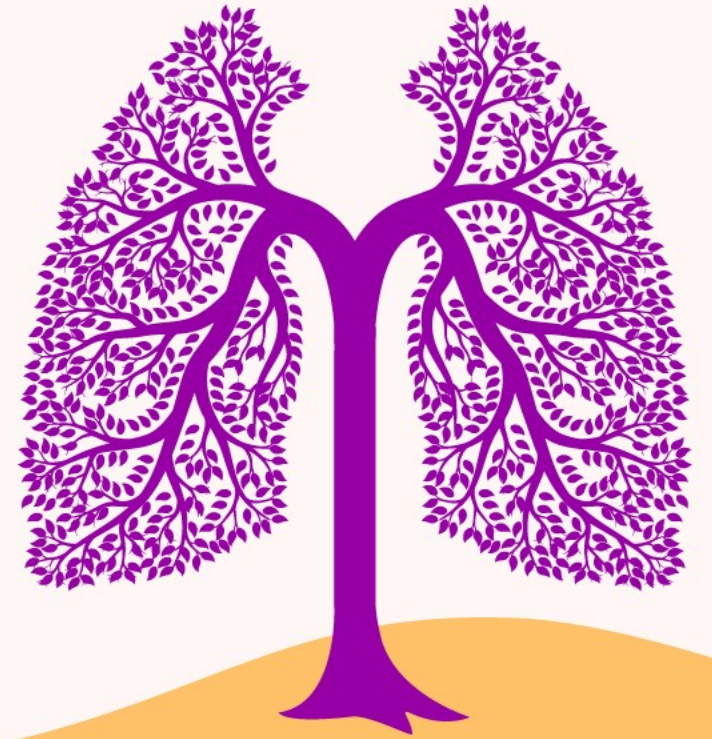
**Patient's perception / needs**

**Cancer care in the future**

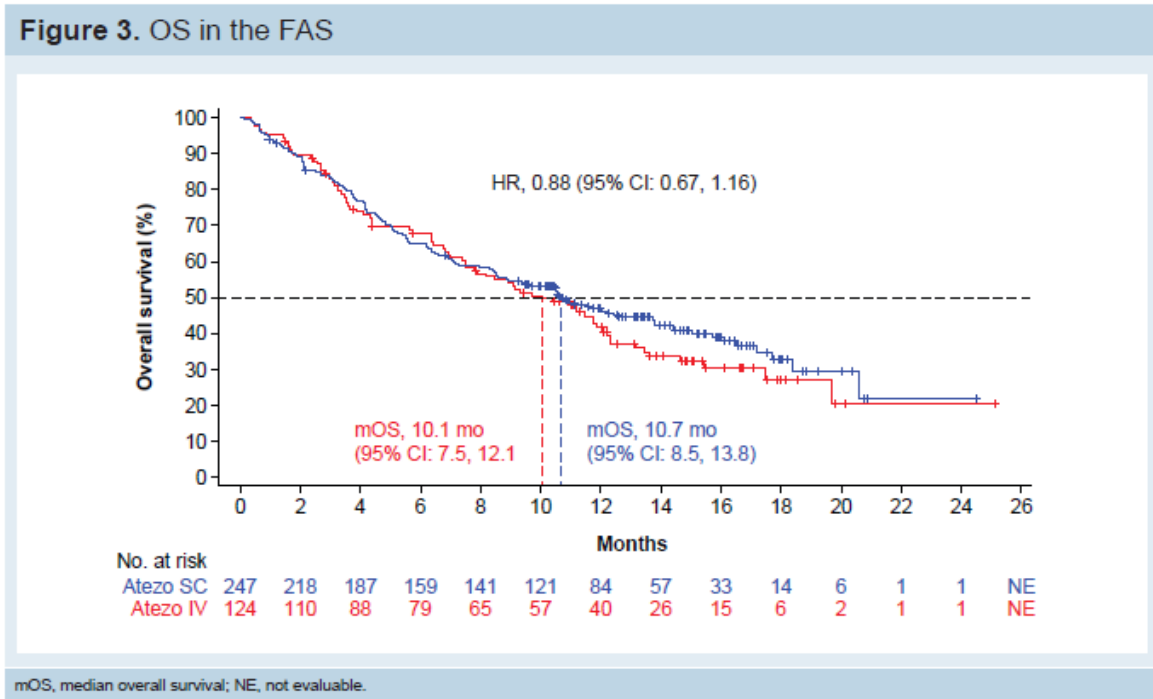
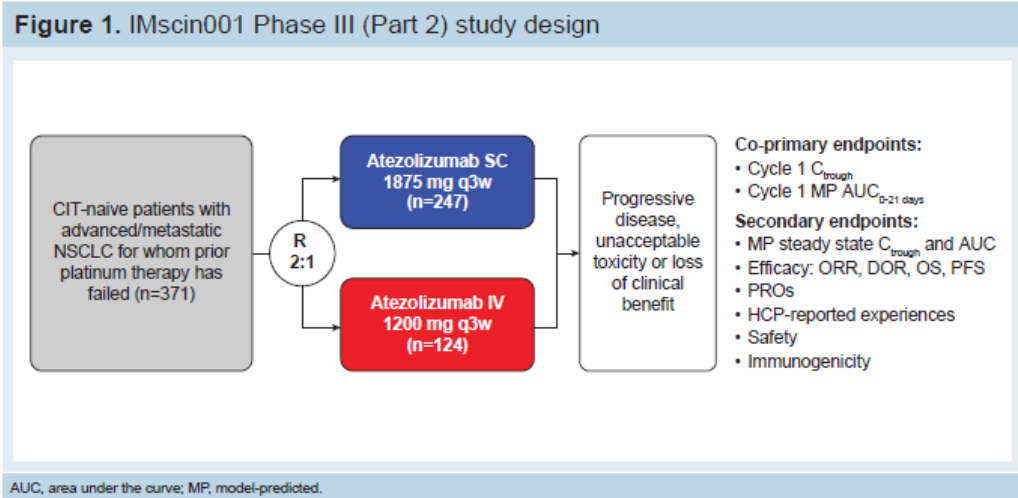
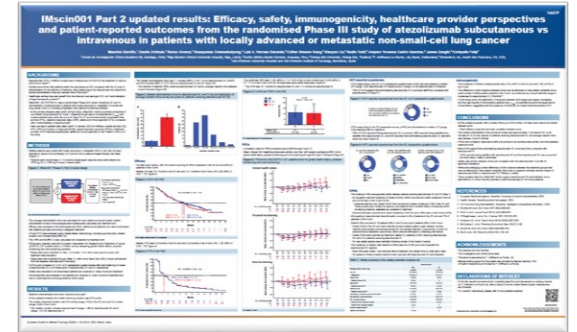




Are there any data to support  
subcutaneous drug administration  
in NSCLC?

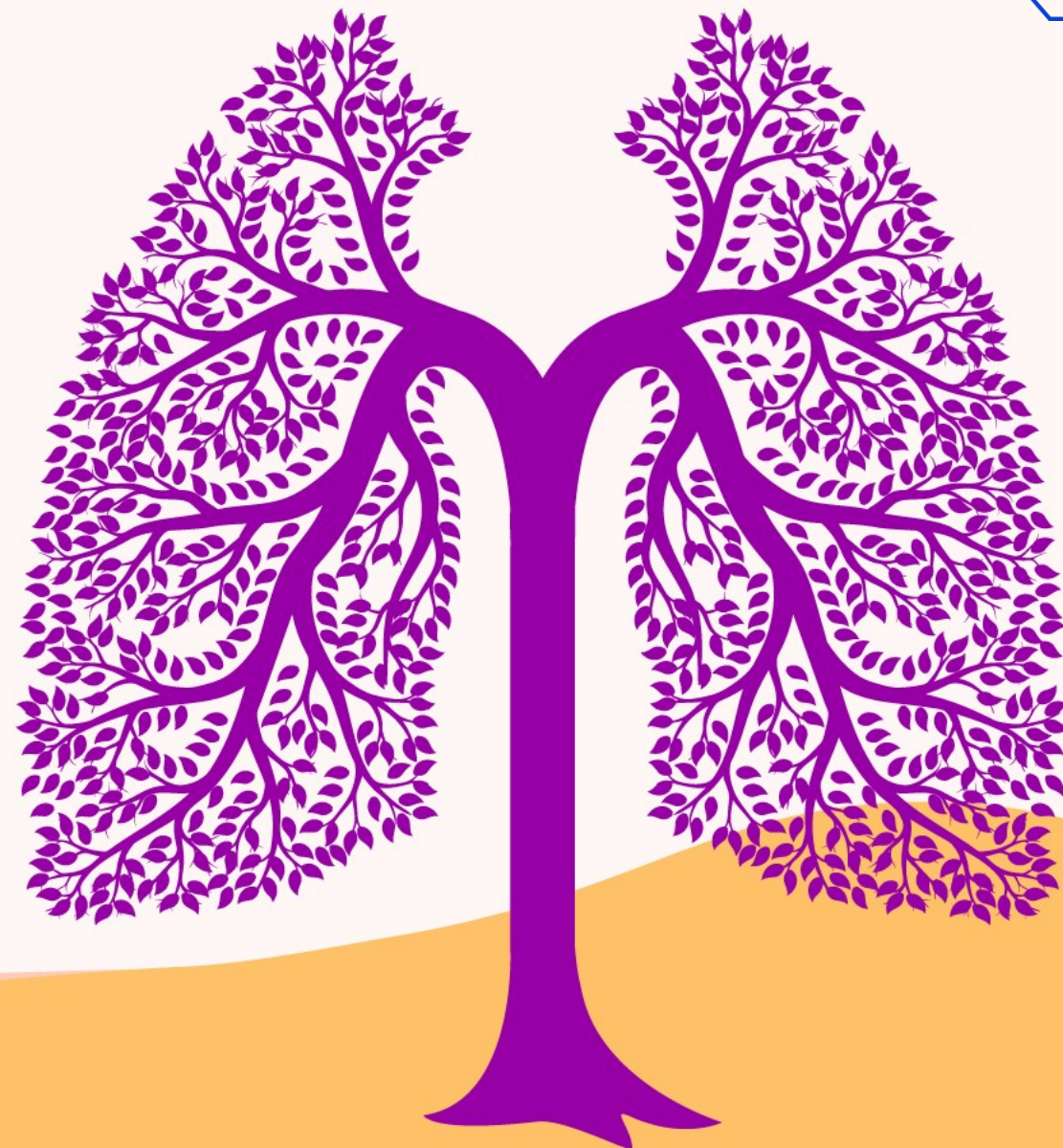


# IMscin001: similar OS data with atezolizumab, regardless of the mode of drug administration



ESMO 2023 Industry Satellite Symposium

# Redefining Lung Cancer Together: A New Era for Patients



# Panel discussion Q&A

## Stephen V Liu (Chair)

Georgetown University  
Washington DC, USA

## Lara Pijuan

Hospital Universitari de Bellvitge  
Barcelona, Spain

## Martin Reck

LungenClinic  
Großhansdorf, Germany

## Nasser Altorki

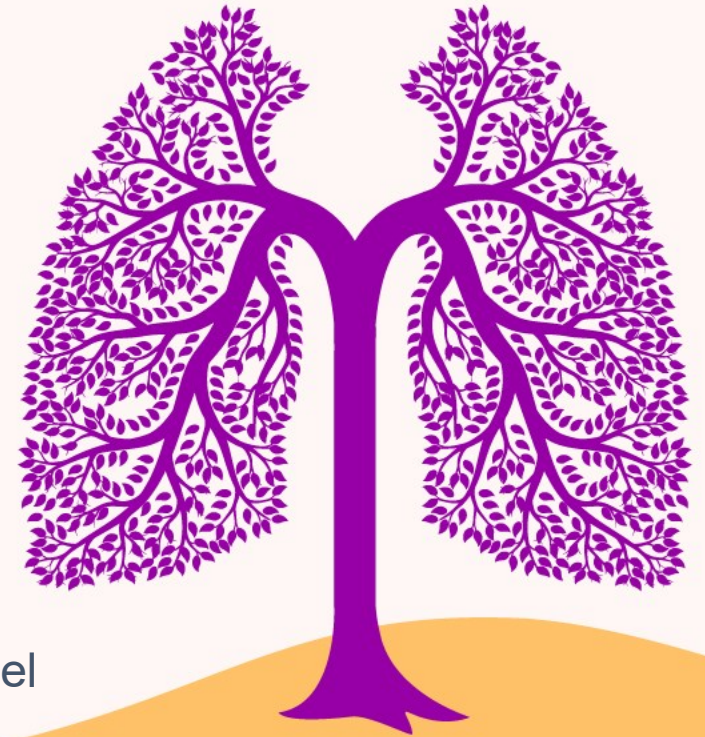
Weill Cornell Medicine  
New York, NY, USA

## Alba Silverio Pons

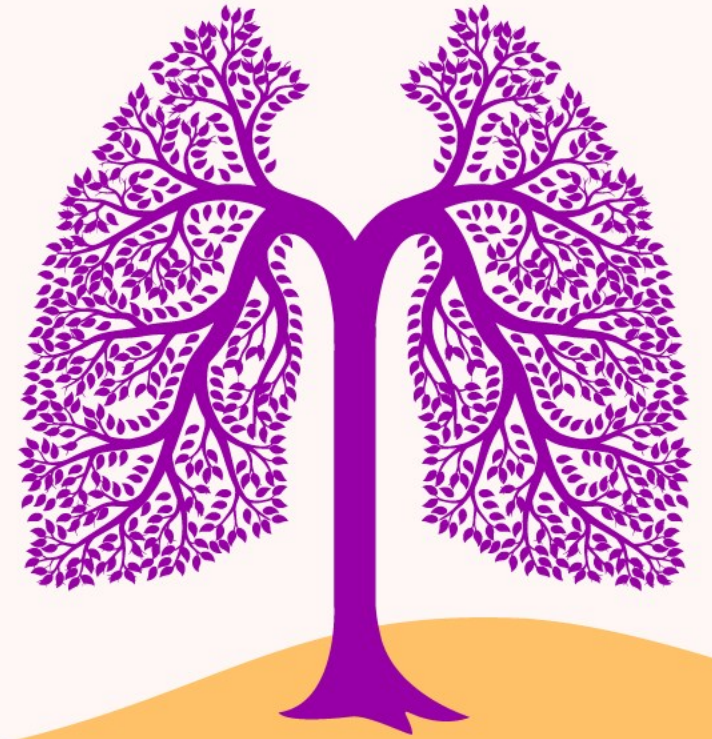
Vall d'Hebron University Hospital  
Barcelona, Spain



Please submit your  
**questions** to the panel



What's new in immunotherapy in advanced NSCLC?



# Phase III studies exploring new immunotherapy combinations to enhance the anti-tumour activity of anti-PD-(L)1 agents

## New immunotherapy combinations to enhance the anti-tumour activity of anti-PD-(L)1 agents

### Anti-PD-(L)1 + Anti-TIGIT

- First phase II data with this MoA: encouraging efficacy of **atezolizumab + tiragolumab** in **CITYSCAPE**<sup>1</sup>
- Phase III **SKYSCRAPER-01** trial is ongoing<sup>2</sup>
- The atezolizumab + tiragolumab combination is being investigated across lung cancer settings<sup>2-5</sup>

**SKYSCRAPER-01** (phase III)  
Previously treated, **locally advanced unresectable or metastatic** NSCLC with high PD-L1 expression (N=660)

**SKYSCRAPER-06** (phase II/III)  
Previously untreated **advanced** non-squamous NSCLC in combination with chemotherapy (N=540)

**SKYSCRAPER-03** (phase III)  
**Unresectable stage III** NSCLC with no PD after concurrent platinum-based chemoradiation (N=829)

- Other anti-PD-(L)1 + anti-TIGIT trials are ongoing in advanced NSCLC, including:
  - **KEYVIBE-003 / -007 / -006**: pembrolizumab + **vibostolimab** +/- chemotherapy or chemoradiation<sup>6-8</sup>
  - **ARC-10 / STAR-121**: zimberelimab + **domvanalimab** +/- chemotherapy<sup>9,10</sup>
  - **AdvanTIG-302**: tislelizumab + **ociperlimab**<sup>11</sup>
  - **PACIFIC-8**: durvalumab + **domvanalimab**<sup>12</sup>

The content of this symposium may include scientific information about experimental or investigational compounds, indications and services that are not yet approved in the EU

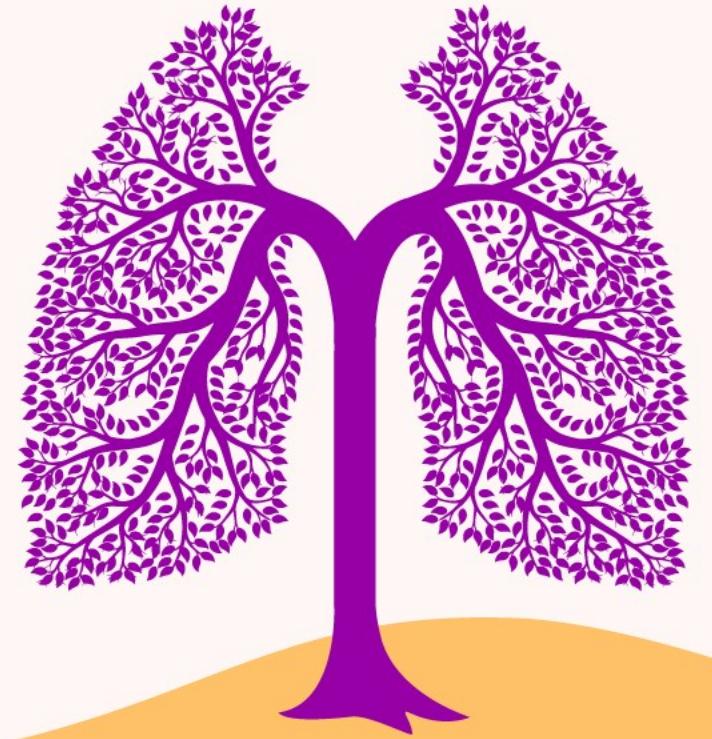
1. Cho, et al. ESMO IO 2021; 2. <https://clinicaltrials.gov/ct2/show/NCT04294810>; 3. <https://clinicaltrials.gov/ct2/show/NCT04619797>; 4. <https://clinicaltrials.gov/ct2/show/NCT04513925>

5. <https://clinicaltrials.gov/ct2/show/NCT04832854>; 6. <https://clinicaltrials.gov/ct2/show/NCT04738487>; 7. <https://clinicaltrials.gov/study/NCT05226598>; 8. <https://clinicaltrials.gov/study/NCT05298423>

9. <https://www.clinicaltrials.gov/study/NCT04736173>; 10. <https://clinicaltrials.gov/study/NCT05502237>; 11. <https://www.clinicaltrials.gov/study/NCT04746924>; 12. <https://clinicaltrials.gov/study/NCT05211895>



What new developments are there in targeted therapies?



# KRAS G12C inhibitors with reported data in NSCLC

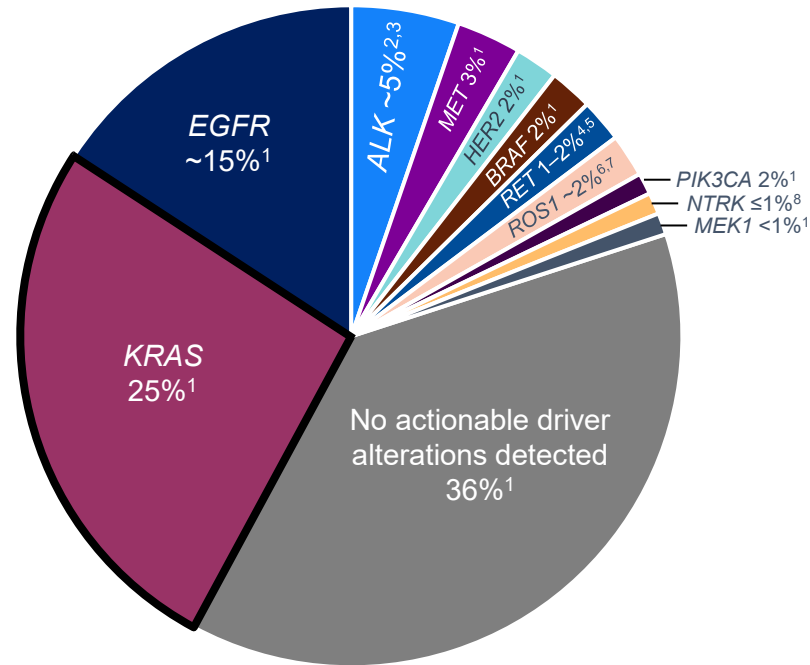


Figure adapted from Pakkala & Ramalingam. JCI Insight 2018

12–14% prevalence of  
**KRAS G12C in NSCLC**<sup>9,10</sup>

## KRAS G12C inhibitors with reported data in NSCLC\*

Manuscript recently published in N Eng J Med

**Divarasib**  
GO42144<sup>10</sup>

**Sotorasib**  
CodeBreakK100<sup>9</sup>  
CodeBreak200<sup>11</sup>



**LY3537982**  
LOXO-RAS-2000<sup>13</sup>

**Adagrasib**  
KRYSTAL-1<sup>12</sup>



**JDQ443**  
KontRASt-01<sup>14</sup>

**D-1553**  
NCT04585035<sup>15</sup>

\*Only molecules with data from global studies are reported

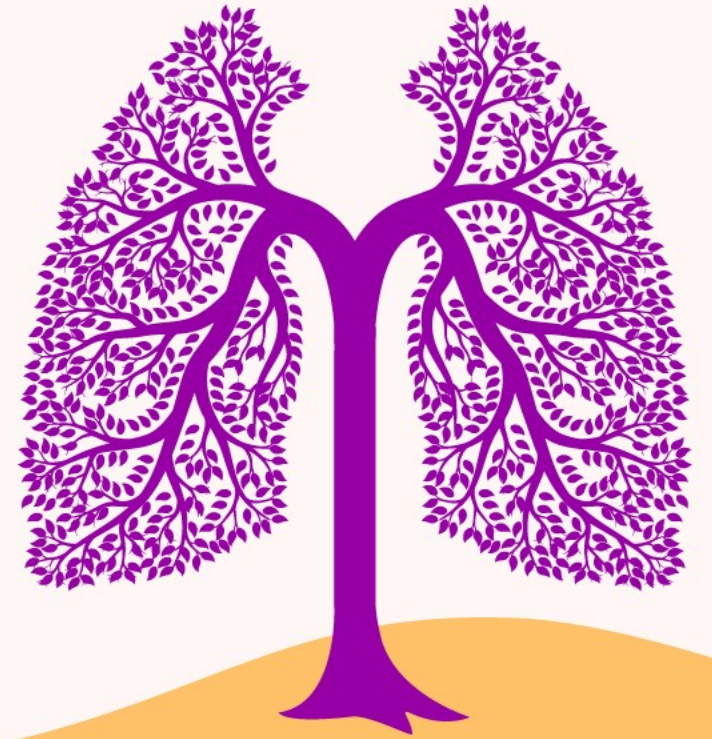
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1. Pakkala & Ramalingam. JCI Insight 2018; 2. Barlesi, et al. Lancet 2016; 3. Tian, et al. Lung Cancer 2017; 4. Qiu, et al. Sci Rep 2020; 5. Gainor & Shaw. Oncologist 2013  
6. Bergethon, et al. J Clin Oncol 2012; 7. Dugay, et al. Oncotarget 2017; 8. Farago, et al. JCO Precis Oncol 2018; 9. Skoulidis, et al. N Engl J Med 2021; 10. Sacher, et al. N Engl J Med 2023  
11. de Langen, et al. Lancet 2023; 12. Jänne, et al. N Engl J Med 2022; 13. Murciano-Goroff, et al. AACR 2023; 14. Cassier et al. ASCO 2023; 15. Jian, et al. AACR 2022



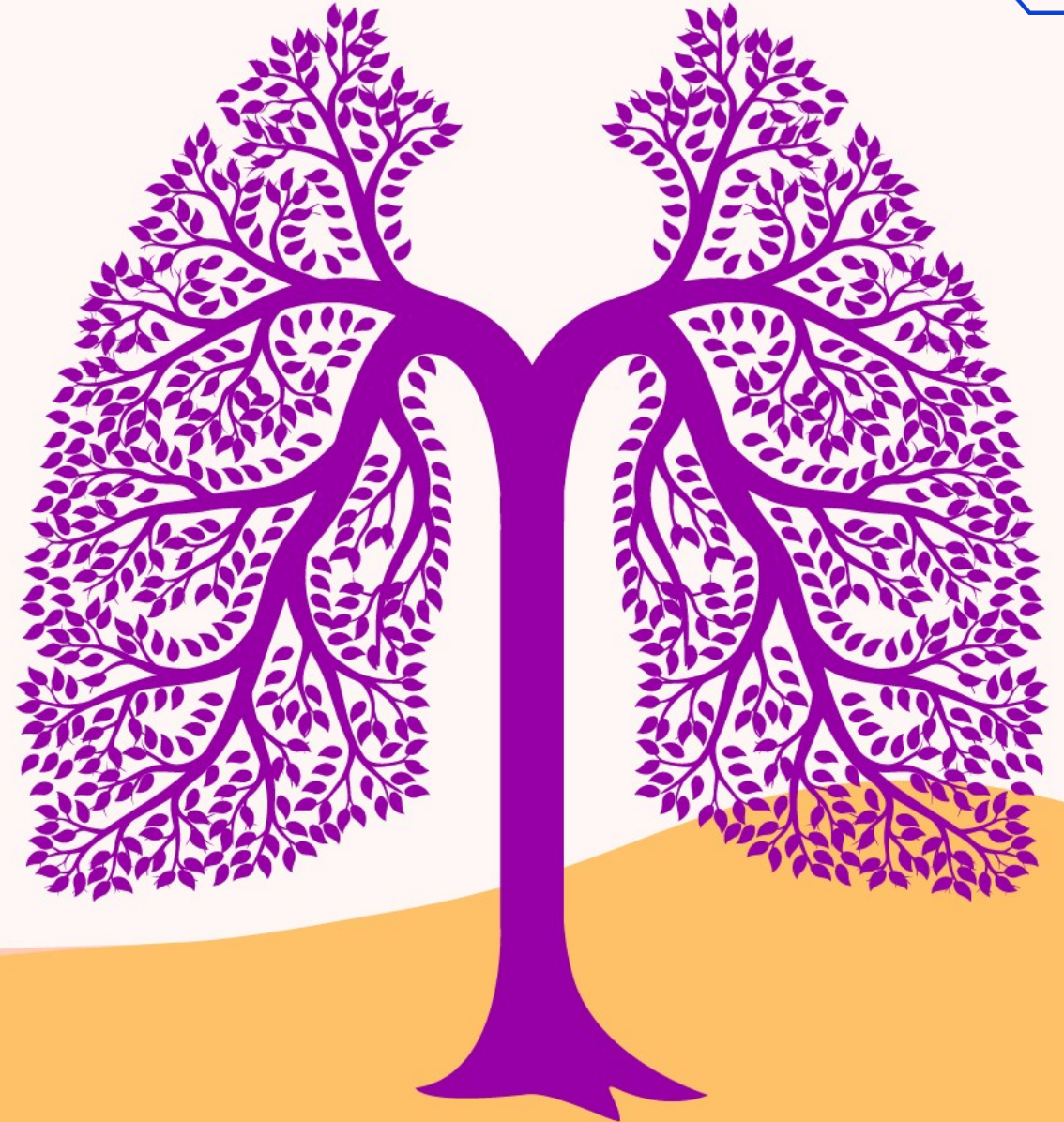


Q&A



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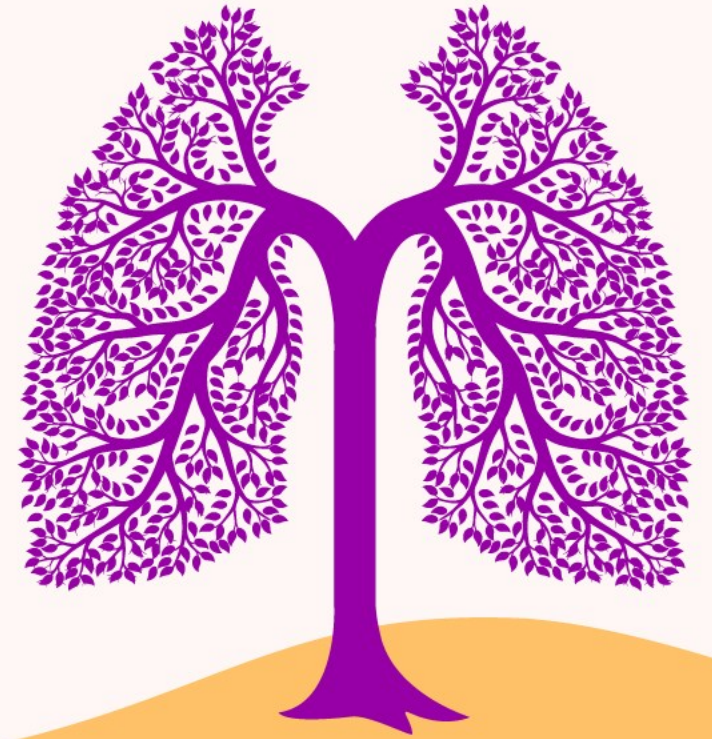


Meeting Chair

**Stephen V Liu**

Georgetown University  
Washington DC, USA

**Closing remarks**



# Thank you for attending!



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to plan future meetings

