

16th
CONGRESS
Lung **ON**
CANCER

BARCELONA
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SLCG studies: Advances stages NSCLC

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CONFLICTO DE INTERESES

The main author declare

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Astrazeneca, Pfizer, BMS, Roche, MSD

Support for attending meetings and/or travel: BMS, MSD, Takeda, Roche, Pfizer

Overview of the GECP Portfolio in Advanced NSCLC

Broad research program in immunotherapy, targeted therapies & translational biomarkers

Focus on unmet needs

- PD-L1-high disease without oncogenic drivers
- Biomarker+ NSCLC in first-line setting
- NSCLC with brain metastasis

*Integration of liquid biopsy, ctDNA dynamics,
and CNS-specific endpoints*

Key studies presented today:

<u>ACTIVE</u>	<u>CLOSED</u>
PALACE (GECP 22/01): ctDNA-guided adaptive immunotherapy	CUBIK (GECP 19/01): Translational characterization of brigatinib-treated ALK+ patients
	NIVIPI-Brain (GECP 21/02): Nivolumab + ipilimumab + platinum chemotherapy in patients with brain metastases

PALACE (GECRP 22/01)

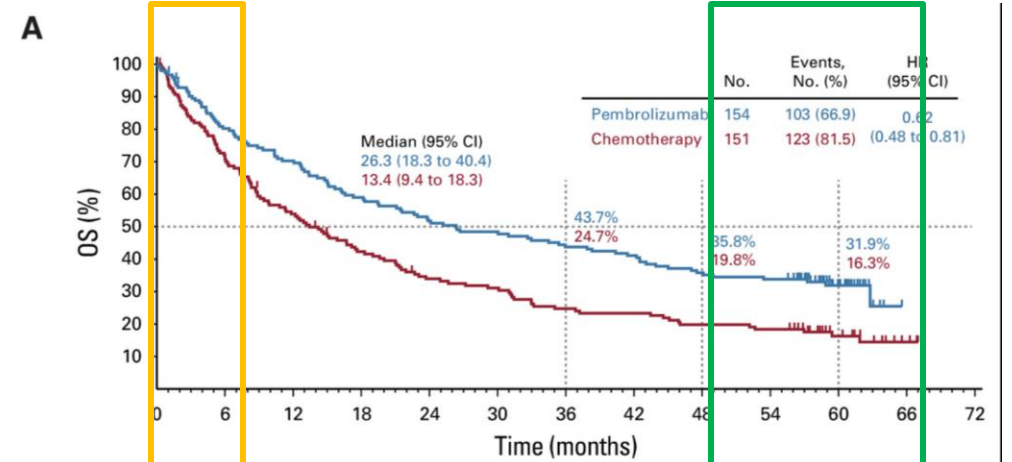
ACTIVE recruitment

Background

PD-L1 $\geq 50\%$ NSCLC shows heterogeneous benefit with PD-(L)1 monotherapy

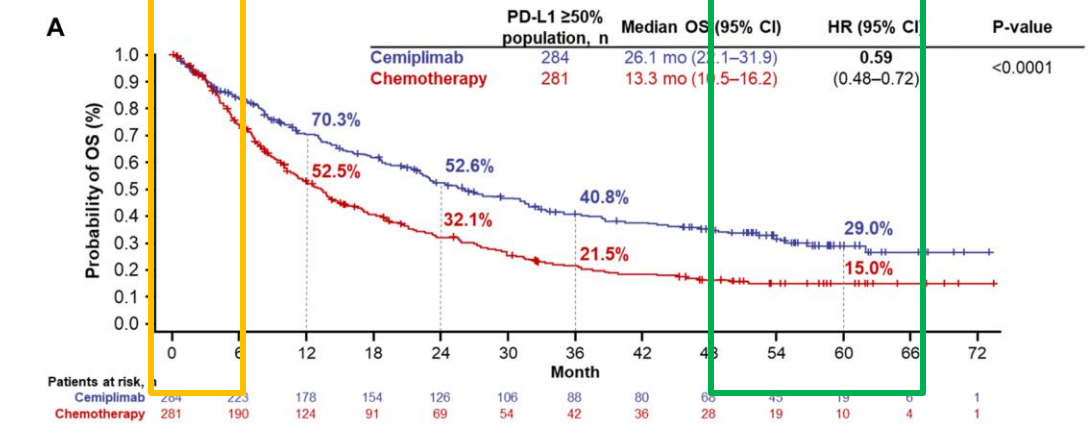
Some patients achieve deep and durable responses; others progress early despite high PD-L1

early progressors despite PD-L1 $\geq 50\%$ long-term durable responders



No. at risk:

Time (months)	0	6	12	18	24	30	36	42	48	54	60	66	72
Pembrolizumab	154	121	106	89	78	73	66	62	54	51	20	0	0
Chemotherapy	151	108	80	61	48	44	35	33	28	26	13	3	0



Patients at risk:

Month	0	6	12	18	24	30	36	42	48	54	60	66	72
Cemiplimab	284	223	178	154	126	106	88	80	60	45	19	0	1
Chemotherapy	281	190	124	91	69	54	42	36	28	19	10	4	1

PALACE (GECP 22/01)

ACTIVE recruitment

Background

PD-L1 $\geq 50\%$ NSCLC shows heterogeneous benefit with PD-(L)1 monotherapy

Some patients achieve deep and durable responses; others progress early despite high PD-L1

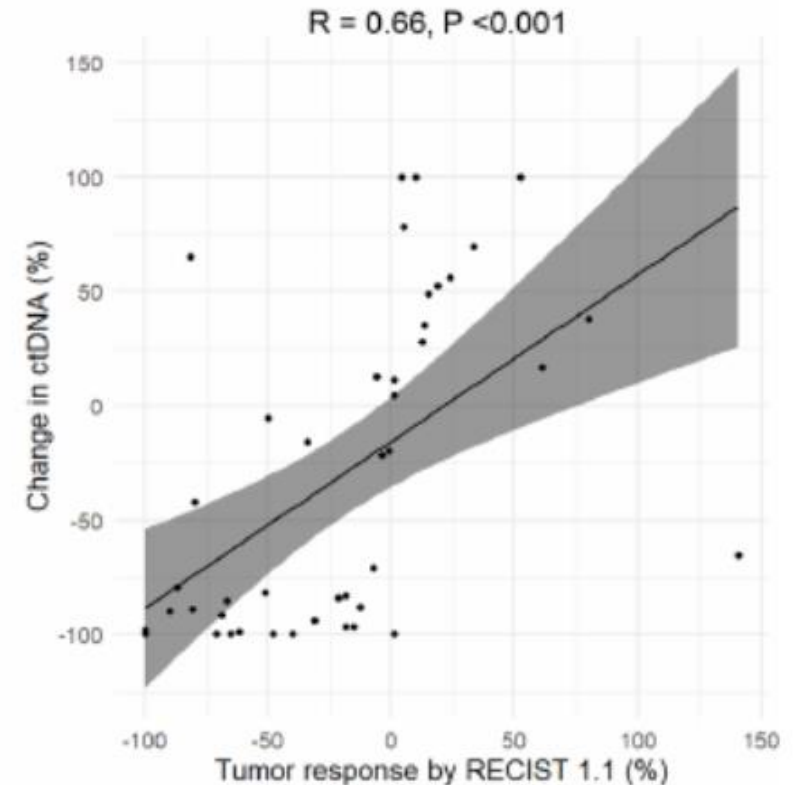
ctDNA clearance after 1–2 cycles of immunotherapy correlates with:

- better ORR, longer PFS and OS
- early identification of primary resistance

Adaptive strategies may:

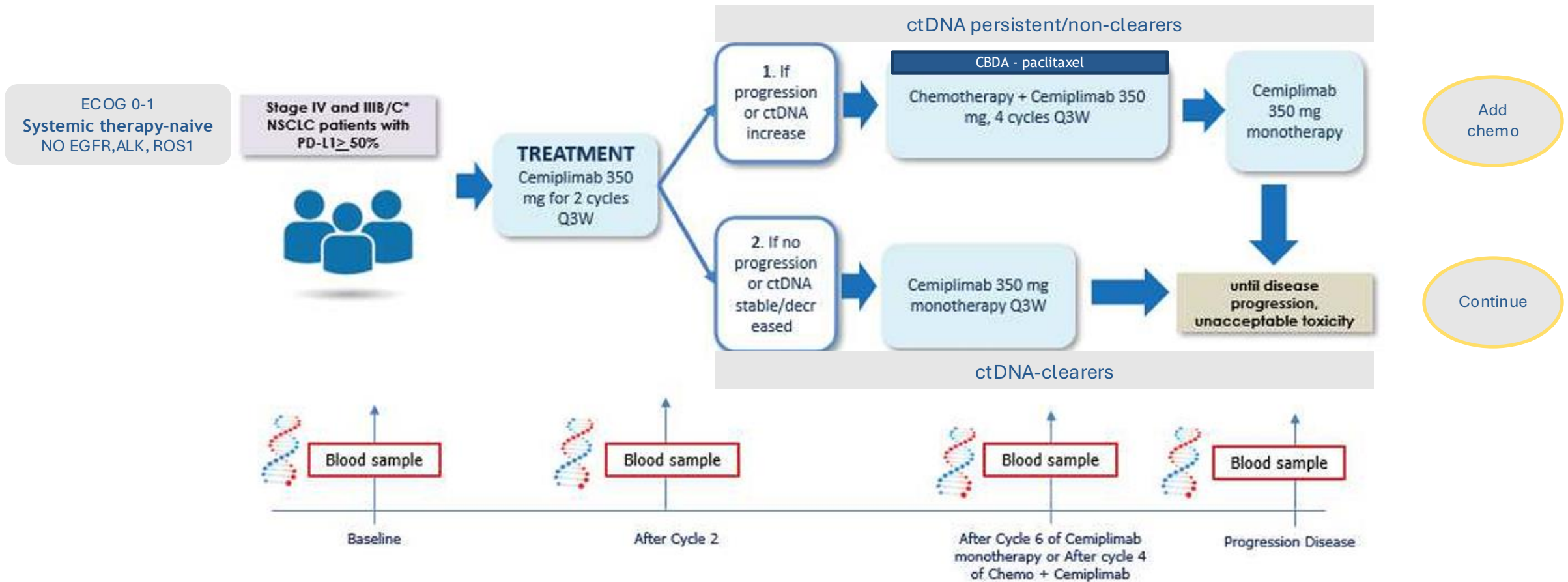
- de-escalate unnecessary chemotherapy in early responders
- intensify therapy in non-clearers with poor prognosis

PALACE explores whether treatment intensification based on early ctDNA dynamics improves survival



PALACE (GECP 22/01 - SGZ-2021-13545)

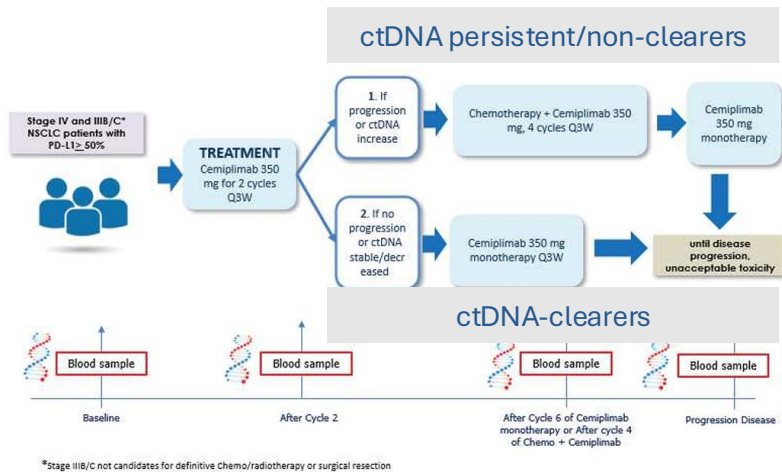
Protocol overview



*Stage IIIB/C not candidates for definitive Chemo/radiotherapy or surgical resection.

PALACE (GECP 22/01 - SGZ-2021-13545)

Protocol overview



Primary Outcome Measures

- Overall survival at 24 months using a ctDNA-guided adaptive treatment algorithm

Secondary Outcome Measures

- PFS, ORR (RECIST 1.1), duration of response
- ctDNA dynamics and correlation with radiologic response
- Pattern of progression (CNS vs extracranial)
- Safety of dynamic treatment intensification

Translational endpoints

- ctDNA clearance thresholds, molecular signatures of resistance

PALACE (GECP 22/01 - SGZ-2021-13545)

Recruitment and Challenges

Sponsor: GECP

Planned number of patients: 63

First patient in (FPI): 29/07/2025

Included patients: 25 patients



Recruitment reflects a biologically narrow window and logistic complexity around ctDNA sampling.

Recruitment Challenges	Proposed Solutions
Narrow PD-L1 $\geq 50\%$ / driver-negative window	Reflex PD-L1 + NGS at biopsy; pathology auto-flags candidates
Preference for chemo-IO first-line	emphasise IO \rightarrow ctDNA \rightarrow escalation safety
ctDNA workflow complexity	Dedicated kits, fixed shipments, guaranteed turnaround
Real-world fragility (ECOG, burden)	Pre-select clinically stable profiles suited for IO-first
Early activation variability	Patient-focused messaging: chance to avoid chemo if ctDNA clears



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Integration of liquid biopsy, ctDNA dynamics, and CNS-specific endpoints

Key studies presented today:

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CUBIK (GECP 19/01)

CLOSED recruitment

Background

ALK+ NSCLC is highly sensitive to 2nd/3rd generation TKIs

Resistance inevitably occurs

Resistance patterns include:

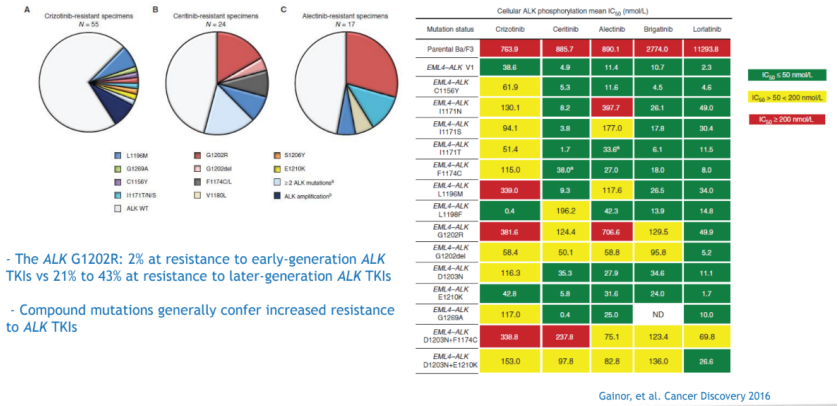
- ALK mutations (e.g., G1202R)
- Off-target bypass pathways (MET, EGFR, KRAS, IGF1R)

Liquid biopsy enables:

- real-time identification of emerging resistance
- tracking clonal evolution
- correlation between molecular progression and radiologic progression

CUBIK is designed to deeply characterise brigatinib evolution in real-world GECP patients

Resistance to ALK tyrosin kinase inhibitors

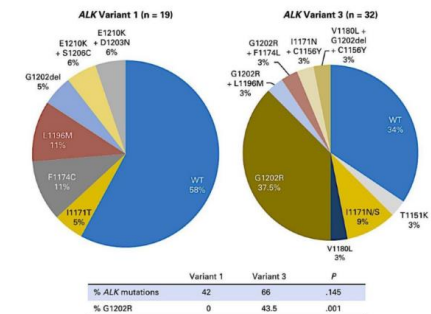


- The ALK G1202R: 2% at resistance to early-generation ALK TKIs vs 21% to 43% at resistance to later-generation ALK TKIs

- Compound mutations generally confer increased resistance to ALK TKIs

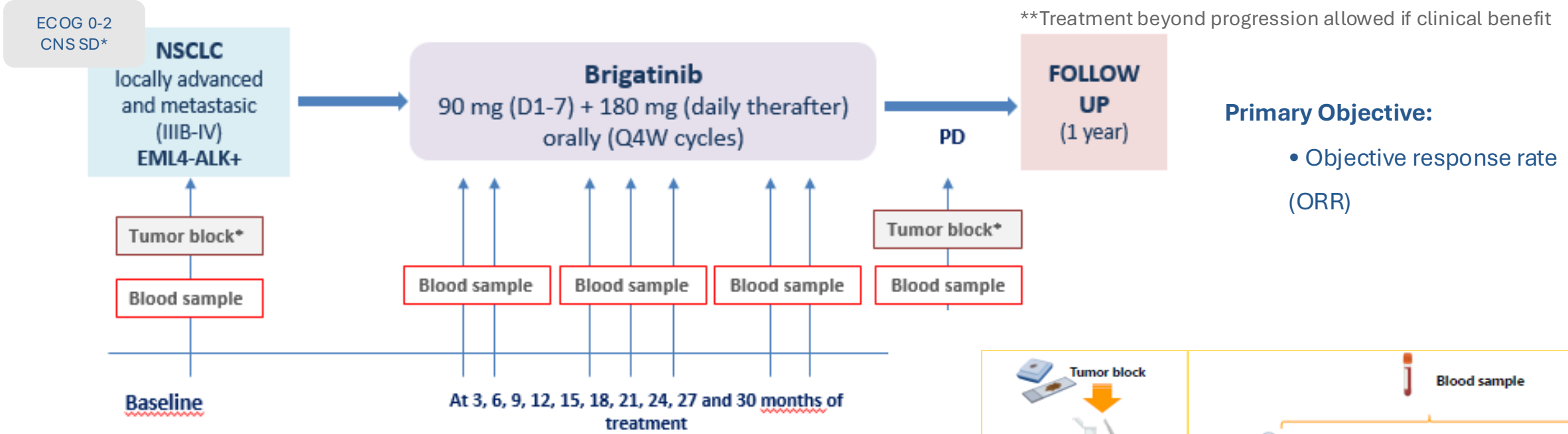
Heterogeneity of ALK-resistant muts varies according to the EML4-ALK variant

EML4-ALK v3 is significantly associated with ALK G1202R



CUBIK (GECP 19/01 - CCR-GECP-Brig)

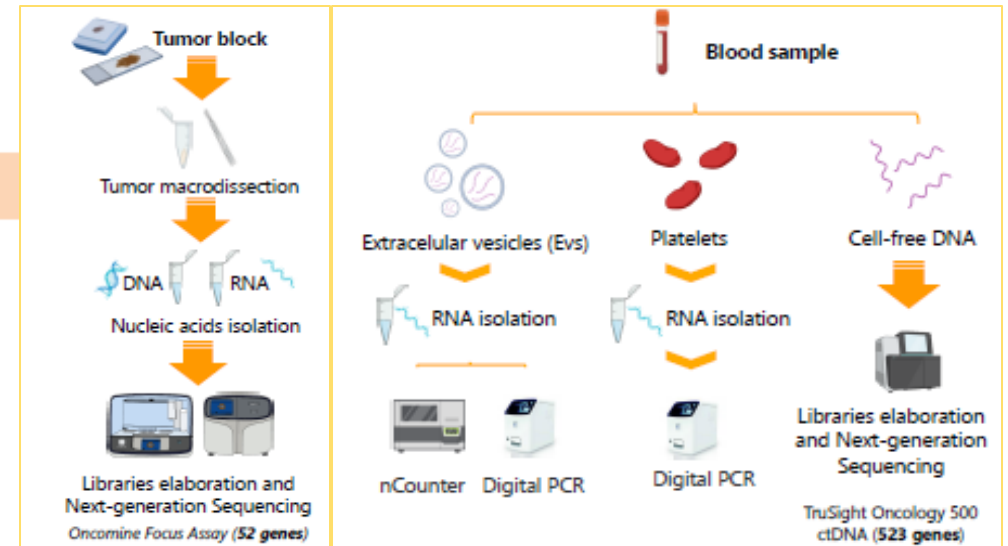
Protocol overview



TRANSLATIONAL RESEARCH

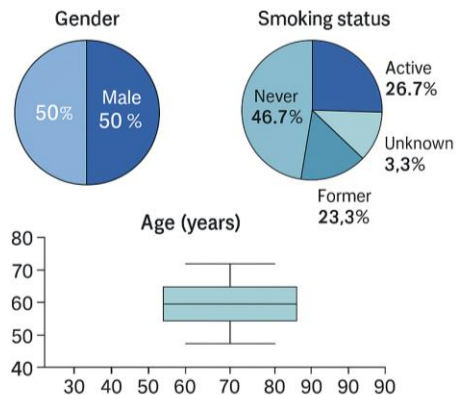
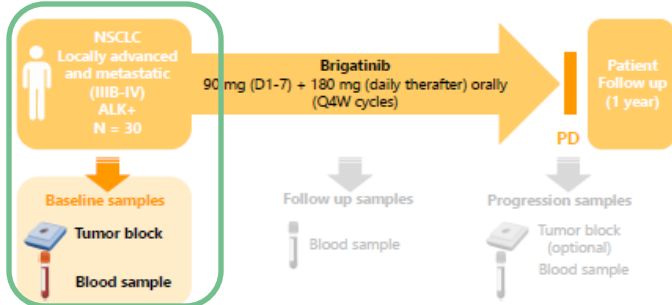
Secondary Translational Objectives:

- Correlation of ctDNA findings with ORR and PFS
- Describe resistance mutations emerging during brigatinib treatment
- CNS control and intracranial progression-free survival
- Concordance between tumour genotyping and liquid biopsy
- Dynamics of variant allele fractions during treatment



CUBIK (GECP 19/01)

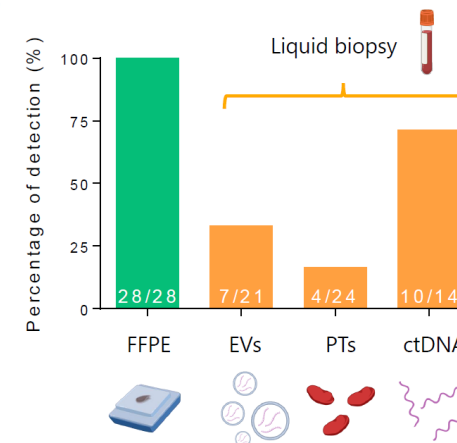
1. Study protocol



All patients had histologically confirmed adenocarcinoma (100%).

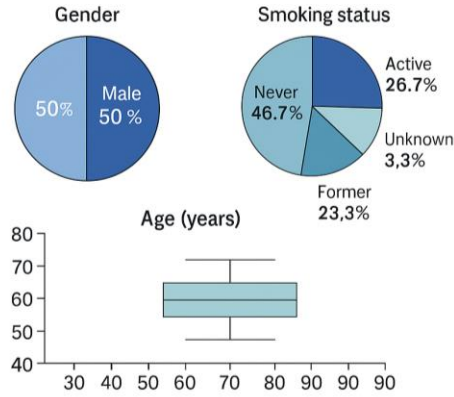
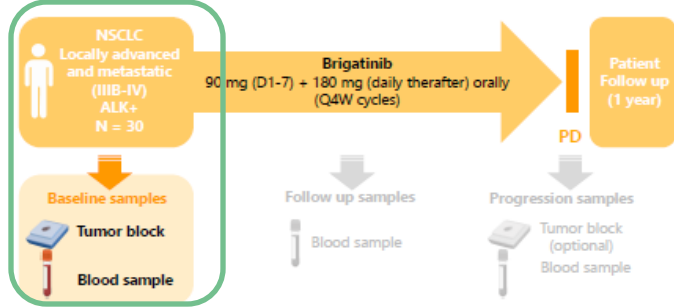
ALK fusions are detected in 100% of the samples

↑ percentage of detection of ALK fusions using cfDNA NGS



CUBIK (GECP 19/01)

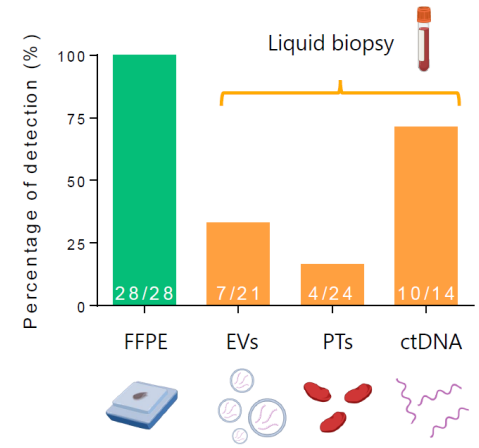
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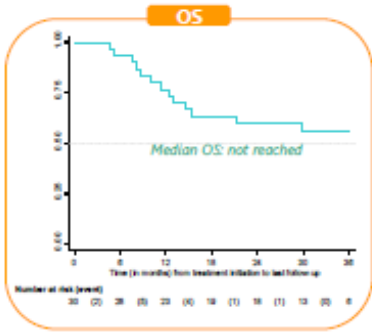
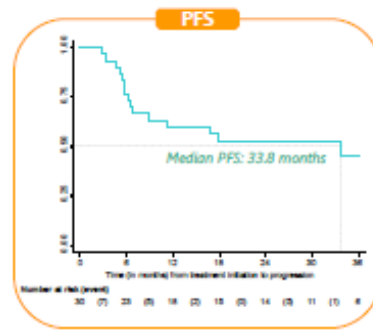
percentage of detection of ALK fusions using cfDNA NGS



All patients

ORR 93,1%

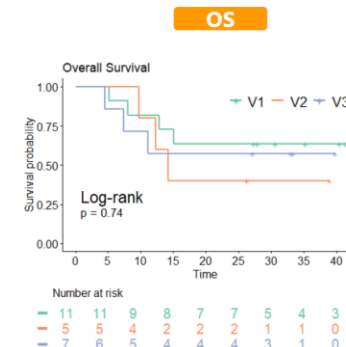
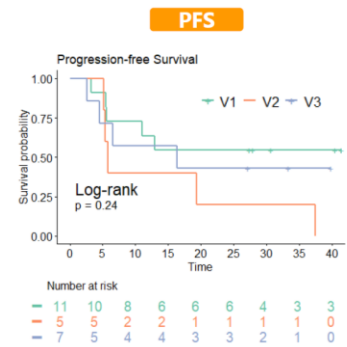
mDOR 14,7m



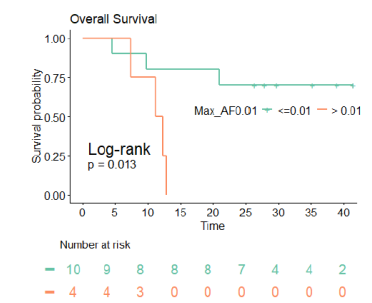
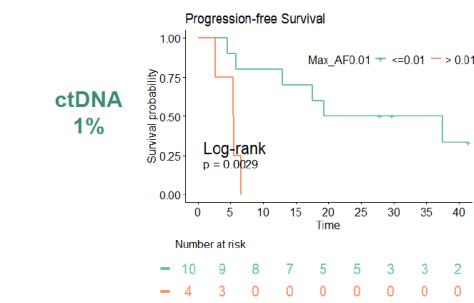
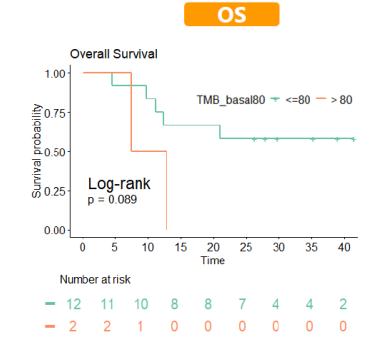
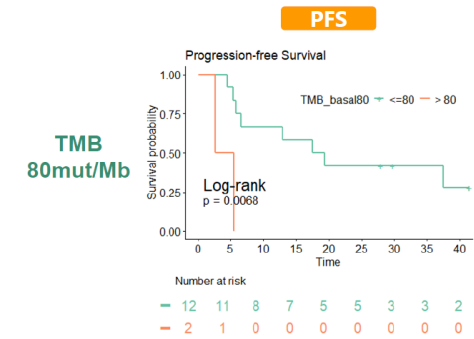
MEDIAN FOLLOW-UP: 33.6 months

Variant type

No significant differences in survival outcomes according to the type of variant



4. ctDNA and blood TMB prognostic value



CUBIK (GECP 19/01 - CCR-GECP-Brig)

Recruitment and future results

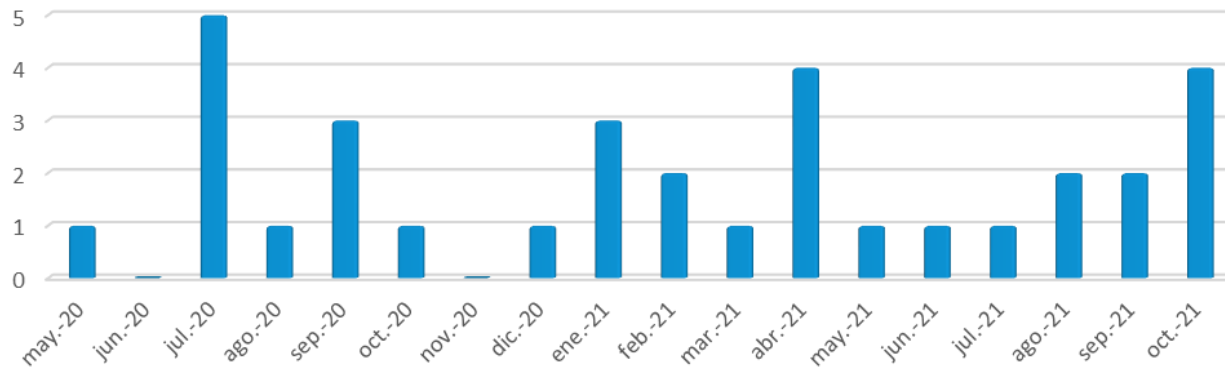
Sponsor: GECP

First patient in (FPI): 21/05/2020

Included patients: 33 patients

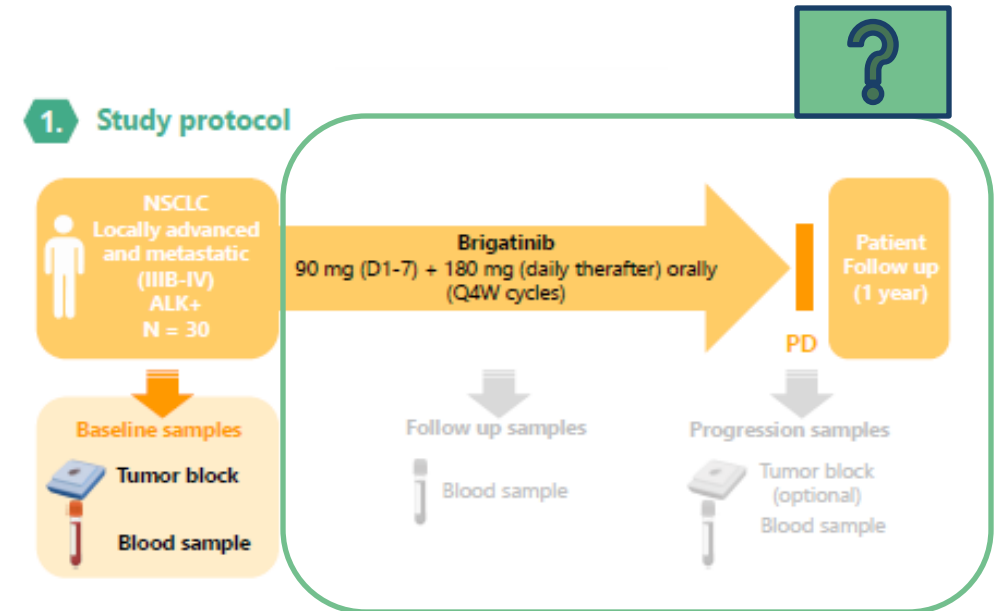
Last patient included: 27/10/2021

HOSPITAL	Nº
CH. LA CORUÑA	9
H. SON ESPASES	5
H. PUERTA DE HIERRO	4
H. REGIONAL DE MÁLAGA	4
H. DURAN I REYNALS - ICO BELLVITGE	3
H. INSULAR GRAN CANARIA	3
H. VALL D'HEBRON	2
H. FUNDACIÓN JIMÉNEZ DÍAZ	2
H. LA FE	1
H. SANT PAU	0
H. U. G. T. I. P. - ICO BADALONA	0
H. DE CRUCES	0
H. CLÍNICO DE SALAMANCA	0
H. GENERAL DE ALICANTE	0
H. GENERAL DE VALENCIA	0
CH UNIVERSITÁRIO PORTO	0
CH UNIVERSITÁRIO COIMBRA	0
CH UNIVERSITÁRIO LISBOA	0



Serial molecular sampling is key

Treatment beyond progression allows correlation between molecular and clinical resistance timelines.

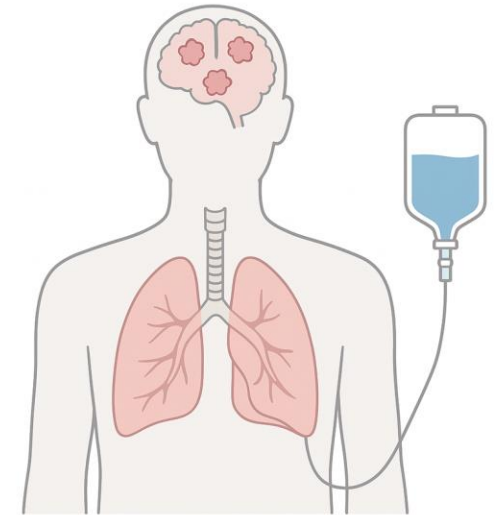


NIVIPI-Brain (GECR 21/02)

CLOSED recruitment

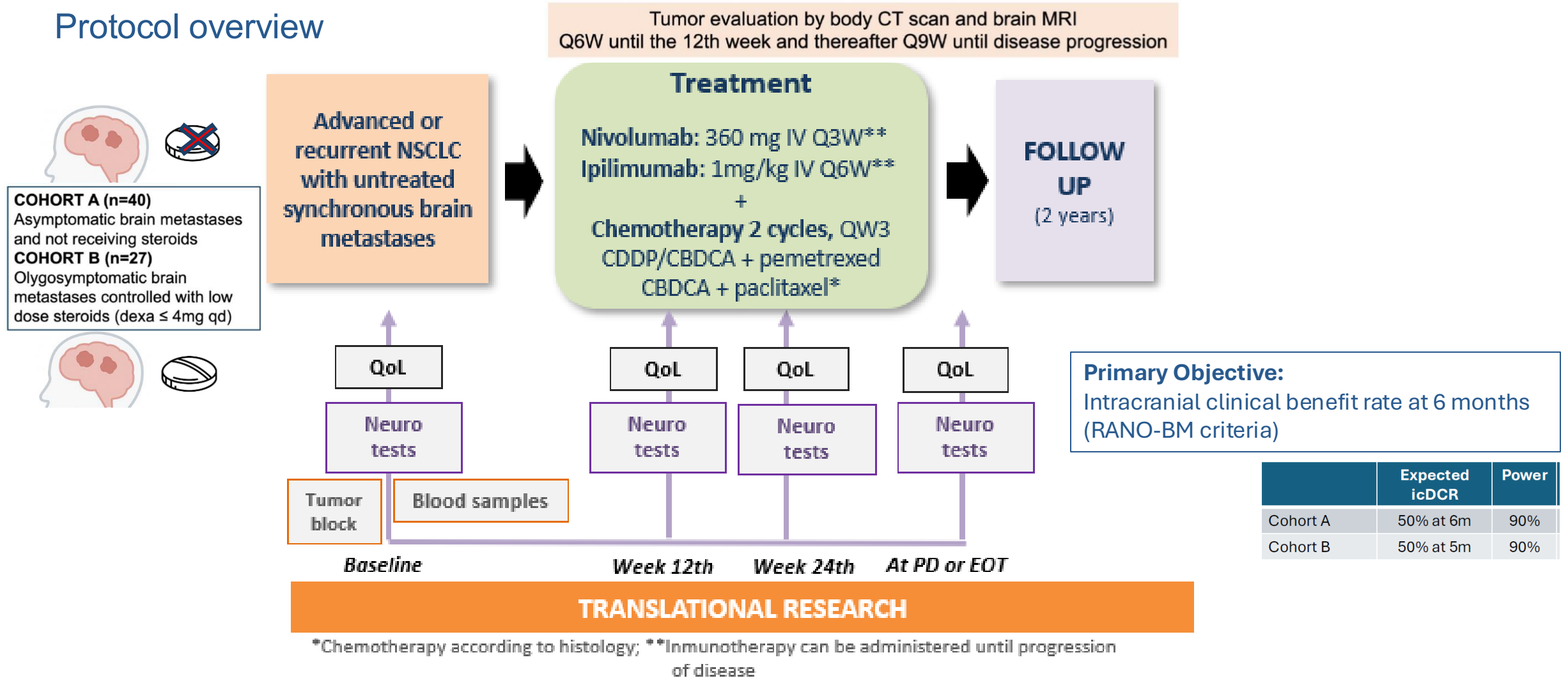
Background

- Chemo-IO or IO monotherapy is the standard of care systemic treatment in patients with advanced non-oncogene addicted NSCLC with brain metastases
- Dual blockade of PD-1 and CTLA-4 has demonstrated significant intracranial efficacy in patients with advanced melanoma and NSCLC with brain metastases
- In selected cases, upfront chemo-IO with deferral of brain radiotherapy may be acceptable when endorsed by a multidisciplinary team
- In the NIVIPI-Brain trial (GECR 21/02), we investigated the efficacy and safety of the combination of nivolumab plus ipilimumab combined with a short course of chemotherapy in patients with NSCLC who had untreated brain metastases



NIVIPI-Brain (GECP 21/02 - CA209-6E4)

Protocol overview



Secondary Objectives:

- Intracranial ORR, PFS and OS, Time to brain radiotherapy, Steroid tapering feasibility, Safety of nivo+ipi+chemotherapy in BM patients, Translational analyses: immune profiles associated with CNS response

NIVIPI-Brain (GECP 21/02 - CA209-6E4)

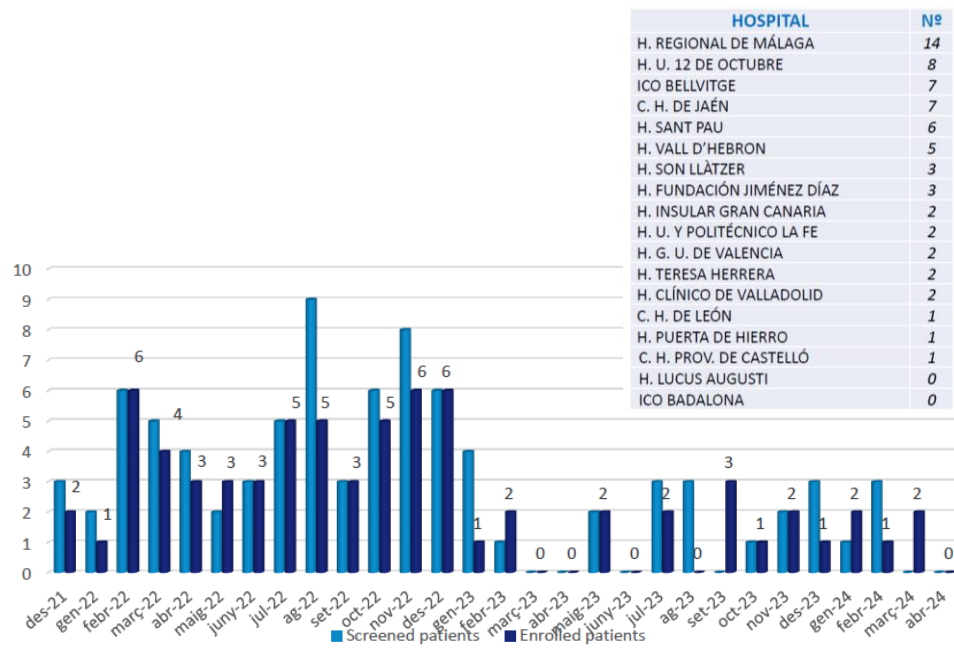
Ethic Committee approval: 22/09/2021

AEMPS approval: 08/10/2021

First site opened: 18/11/2021

First patient in (FPI): 02/12/2021

Included patients: 71 patients (44 cohort A & 27 cohort B) Last patient included: 15/03/2024



HOSPITAL	Nº
H. REGIONAL DE MÁLAGA	14
H. U. 12 DE OCTUBRE	8
ICO BELLVITGE	7
C. H. DE JAÉN	7
H. SANT PAU	6
H. VALL D'HEBRON	5
H. SON LLÀTZER	3
H. FUNDACIÓN JIMÉNEZ DÍAZ	3
H. INSULAR GRAN CANARIA	2
H. U. Y POLITÉCNICO LA FE	2
H. G. U. DE VALENCIA	2
H. TERESA HERRERA	2
H. CLÍNICO DE VALLADOLID	2
C. H. DE LEÓN	1
H. PUERTA DE HIERRO	1
C. H. PROV. DE CASTELLÓ	1
H. LUCUS AUGUSTI	0
ICO BADALONA	0



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NIVIPI-Brain, A Single-Arm Phase 2 Study of Nivolumab plus Ipilimumab Combined with two Cycles of Platinum Based Chemotherapy as First Line Treatment for Advanced Non-Small Cell Lung Cancer Patients with Synchronous Brain Metastases

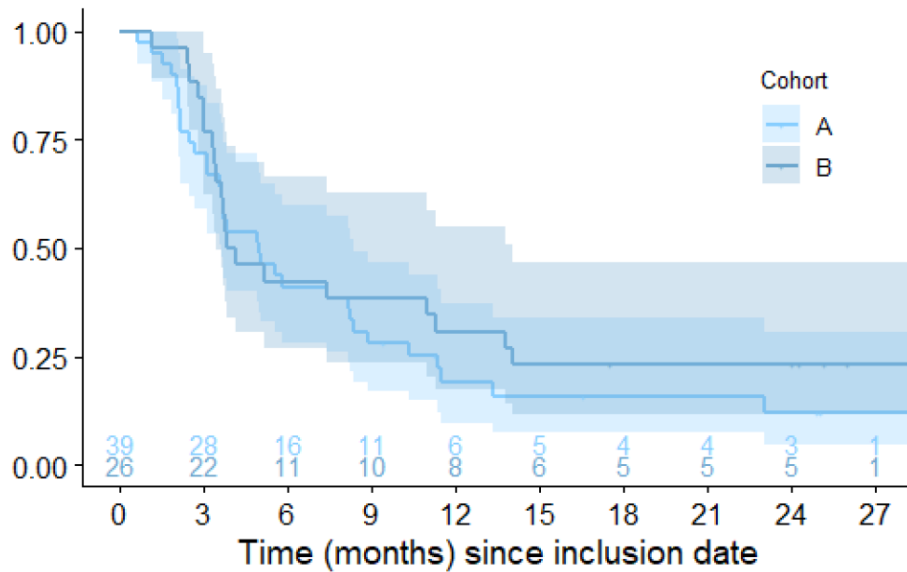
E. Nadal, A. Cantero, L. Paz-Ares, A.L. Ortega, A. Barba, P. Iranzo, M. Dómine, J. García, A. Blasco, R. García-Campelo, D. Rodríguez-Abreu, R. López-Castro, O. Juan-Vidal, A. Sánchez, S. Medina, M. Provencio, M. Simó, N. Vilariño, V. Navarro, J. Bruna

Correspondence to Ernest Nadal. HUB-ICO-IDIBELL Comprehensive Cancer Center. Bellvitge Healthcare Campus. L'Hospitalet de Llobregat (Barcelona) Spain.

NIVIPI-Brain (GECP 21/02)

CLOSED recruitment

Primary Endpoint: Intracranial DCR (by RANO-BM)



Cohort	Intracranial DCR
A	At 6 months 41% (95% CI 28-60)
B	At 5 months 46% (95% 31-79)

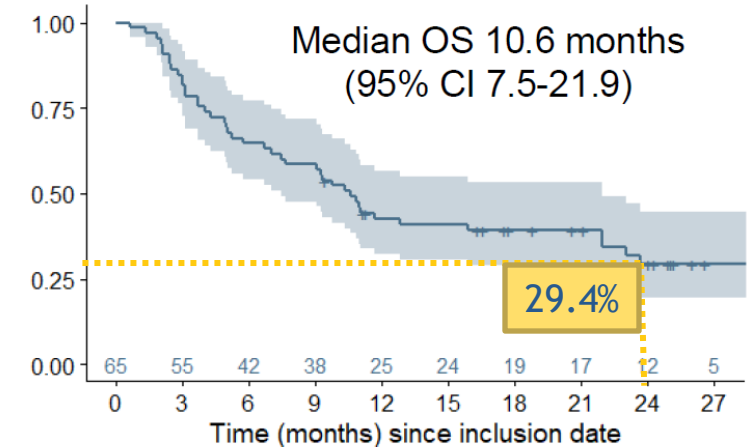
As the intracranial DCR is below 50%, the study did not achieve the expected efficacy

Reasons for treatment discontinuation:
 Progression: 36 (55.4%)
 Toxicity: 13 (20%)
 Patient decision: 1 (1.5%)
 Physician decision: 3 (3.5%)
 Death: 3 (4.6%)

“did not meet the primary endpoint in patients with advanced NSCLC with untreated brain metastases since the intracranial DCR rate was below the pre-specified threshold”

Overall Survival Analysis

All patients



2y OS rate = 29.4% (95% CI 19.4-44.7)
 Median FUP 24.9 months

“No major differences in terms of overall survival were observed between cohort A and B (oligosymptomatic or corticosteroids treatment)”

NIVIPI-Brain (GECP 21/02)

CLOSED recruitment

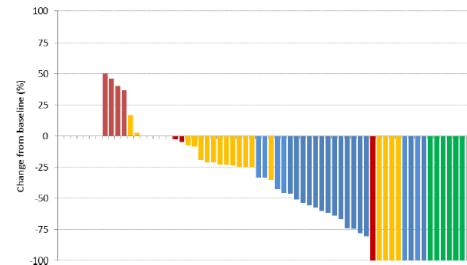
Intracranial



Best Overall Response Rate (ORR) in all patients

CNS Best ORR (by RANO-BM)

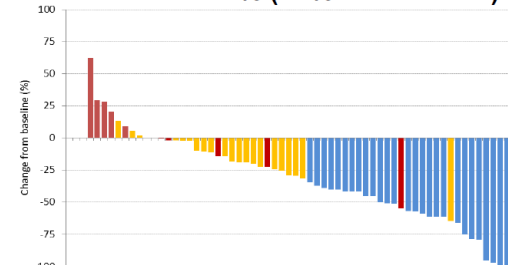
ORR = 41.5% (95% CI 24.9-54.4)



Clinical Benefit Rate (CBR) = 73.8%
6 CR, 21 RP and 21 SD

Systemic Best ORR (by RECIST)

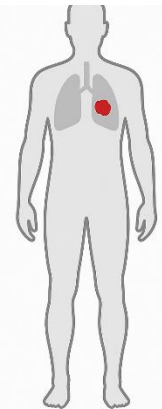
ORR = 41.5% (95% CI 24.9-54.4)



Clinical Benefit Rate (CBR) = 78.4%
27 RP and 24 SD

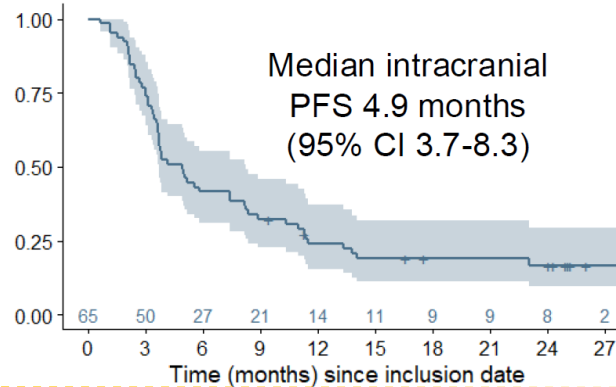
Most responses were concordant between both compartments, but 4 patients with clinical benefit by RECIST (CR, PR or SD) had intracranial PD, while only 1 patient with CNS clinical benefit had PD by RECIST

Systemic

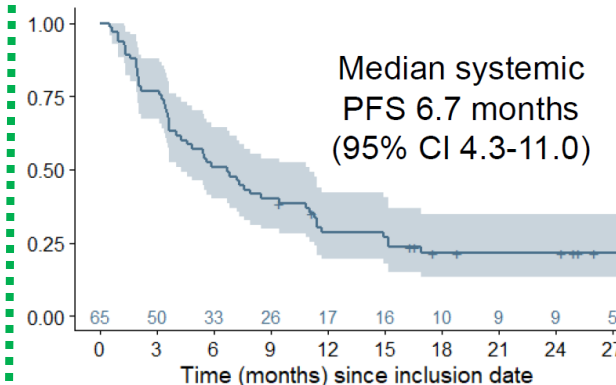


Intracranial and Systemic PFS in both cohorts

CNS PFS (by RANO-BM)



Systemic PFS (by RECIST)



NIVIPI-Brain (GECR 21/02)

CLOSED recruitment

Safety results

Neurological adverse events in all patients regardless of their relationship and their frequency (n=65)

Median number of cycles (range)		n	%	G1	G2	G3	G4	G5
Nivolumab	7 (1-33)	11	16.90%	10	0	1	0	0
Ipilimumab	4 (1-17)	10	15.40%	5	1	4 (*)	0	0
G3-4 Treatment-related AEs		3	4.60%	1	0	1	1	0
Nivolumab	19 (29.2%)	1	1.50%	0	0	1	0	0
Ipilimumab	20 (30.7%)	6	9.20%	6	0	0	0	0
Chemotherapy	27 (41.5%)	5	7.70%	3	2	0	0	0
Severe Adverse Events		3	4.60%	3	0	0	0	0
All	31 (63.1%)	2	3.10%	1	1	0	0	0
G3-G4	29 (44.6%)	2	3.10%	2	0	0	0	0
G5	0 (0%)	2	3.10%	2	0	0	0	0
		2	3.10%	1	0	0	0	0
		1	1.50%	1	0	0	0	0
		1	1.50%	1	0	0	0	0
		1	1.50%	1	0	0	0	0
		1	1.50%	1	0	0	0	0
		1	1.50%	1	0	0	0	0

(*) stroke (n=2) desorientation (n=1), weakness in lower limbs (n=1)

To Conclude

Integrating the SLCG-Trials into the NSCLC Landscape

These trials address three distinct biological niches — PD-L1-high, ALK+, and CNS-metastatic disease — while sharing a strong translational identity

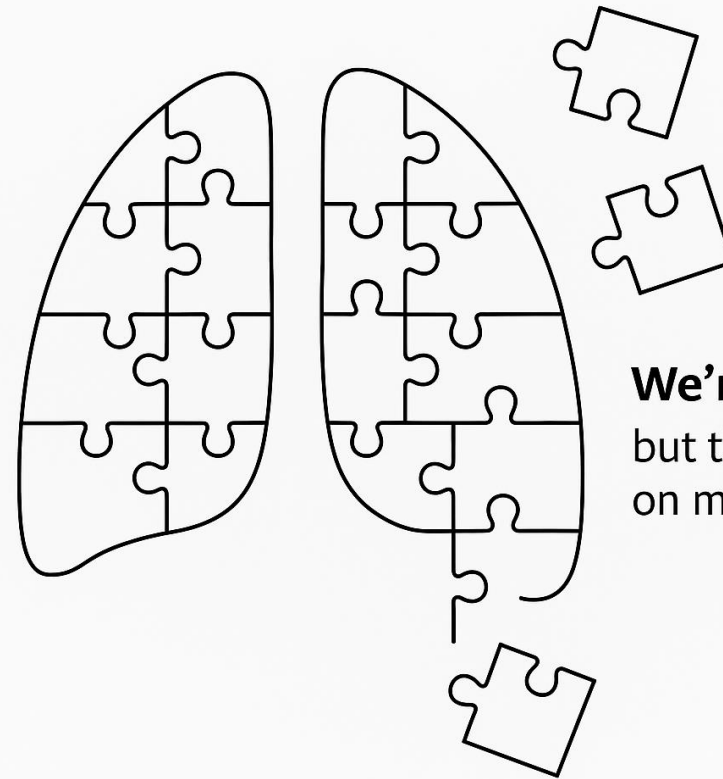
Clinic and translational bridge: extensive translational programs that will inform future personalised strategies

Represent complementary strategies the SLCG is exploring to personalise therapy in advanced NSCLC

- ctDNA-guided adaptive immunotherapy
- targeted therapy evolution analysis: real-time resistance genomics in ALK+ patients
- CNS-focused immunotherapy: dedicated strategy for patients with brain mets

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We're getting closer...
but the puzzle still insists
on missing a few pieces.

lvila@tauli.cat