

Tipping the balance in favor of the immune system to fight cancer



Corporate Presentation | November 2023

NASDAQ: CADL

Forward Looking Statements

This Presentation contains forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995. All statements other than statements of historical facts contained in this Presentation, including express or implied statements regarding our strategy, future financial condition, future operations, projected costs, prospects, plans, objectives of management and expected market size, are forward-looking statements. In some cases, you can identify forward-looking statements by terminology such as “may,” “will,” “should,” “expect,” “intend,” “plan,” “anticipate,” “believe,” “estimate,” “target,” “seek,” “predict,” “potential,” “continue” or the negative of these terms or other comparable terminology. Although we believe that the expectations reflected in these forward-looking statements are reasonable, these statements relate to our strategy, future operations, future financial position, future revenue, projected costs, prospects, plans, objectives of management and expected market size, and involve known and unknown risks, uncertainties and other factors that may cause our actual results, performance or achievements to be materially different from any future results, performance or achievements expressed or implied by these forward-looking statements. Forward-looking statements in this Presentation include, but are not limited to, statements about: the initiation, timing, progress, results, and cost of our research and development programs and our current and future preclinical and clinical studies, including statements regarding the timing of initiation and completion of studies or trials and related preparatory work, the period during which the results of the trials will become available, and our research and development programs; our ability to efficiently discover and develop product candidates; our ability to initiate, recruit and enroll patients in and conduct our clinical trials at the pace that we project; our ability to obtain and maintain regulatory approval of our product candidates; our ability to compete with companies currently marketing or engaged in the development of treatments that our product candidates are designed to target; our reliance on third parties to conduct our clinical trials and to manufacture drug substance for use in our clinical trials; the size and growth potential of the markets for our product candidates and our ability to serve those markets; the ability and willingness of our third-party strategic collaborators to continue research and development activities relating to our development candidates and product candidates; our ability to obtain and maintain adequate intellectual property rights; our estimates of our future expenses, revenue, capital requirements or our need for or ability to obtain additional financing; the potential benefits of strategic collaboration agreements, our ability to enter into additional strategic collaborations or arrangements, and our ability to attract collaborators with development, regulatory and commercialization expertise; our financial performance; developments and projections relating to our competitors or our industry; the effect of the COVID-19 pandemic, including mitigation efforts and economic effects, on any of the foregoing or other aspects of our business operations, including but not limited to, our preclinical studies or current and future clinical trials. We caution the recipient not to place considerable reliance on the forward-looking statements contained in this Presentation. The forward-looking statements in this Presentation speak only as of the date of this document, and we undertake no obligation to update or revise any of these statements. Our business is subject to substantial risks and uncertainties, including those referenced above.

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Candel at a glance

Industry leader in the development of viral immunotherapies for patients living with cancer



- CAN-2409: Off-the-Shelf Therapy, Individualized Cancer Response
 - Engineered, replication-defective adenoviral gene construct encoding herpes simplex virus (HSV)-thymidine kinase
 - “Pipeline in a product” strategy advancing multiple programs in several large indications
 - Established proof of mechanism in patients in each indication currently under evaluation
 - Numerous upcoming catalysts:
 - Topline phase 2 OS data in NSCLC (Q2 2024)
 - Topline phase 2b (Active Surveillance) and phase 3 (Intermediate/High Risk) Prostate Cancer clinical data (Q4 2024)



- CAN-3110: Oncolytic Virus with Tumor-Specificity
 - Engineered, replication-competent HSV designed for tumor-specificity
 - Encouraging survival data recently announced during May 2023 ASGCT conference from phase 1 Recurrent High-Grade Glioma clinical trial
 - Publication in *Nature*
 - Opportunity for creation of “pipeline in a product” by expansion into indications beyond brain cancers
 - Clinical and immunological biomarker data on Arm C, evaluating repeat dosing regimen of CAN-3110 (2H 2024)



- enLIGHTEN™ Discovery Platform Based on Advanced Analytics and HSV Technology
 - Validating partnership with UPenn Center for Cellular Immunotherapies focused on combination with CAR-Ts in solid tumors

Leadership team with decades of experience in oncology, immunology and drug development



Paul Peter Tak, M.D., Ph.D., FMedSci

President & Chief Executive Officer



sitryx



Jason Amello

Chief Financial Officer



Francesca Barone, M.D., Ph.D.

Chief Scientific Officer



UNIVERSITY OF
BIRMINGHAM



Garrett Nichols, M.D., M.S.

Chief Medical Officer



CHIMERIX



Seshu Tyagarajan, Ph.D., RAC

Chief Technical and Development Officer



Susan Stewart, J.D.

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Padmanee Sharma, M.D., Ph.D.

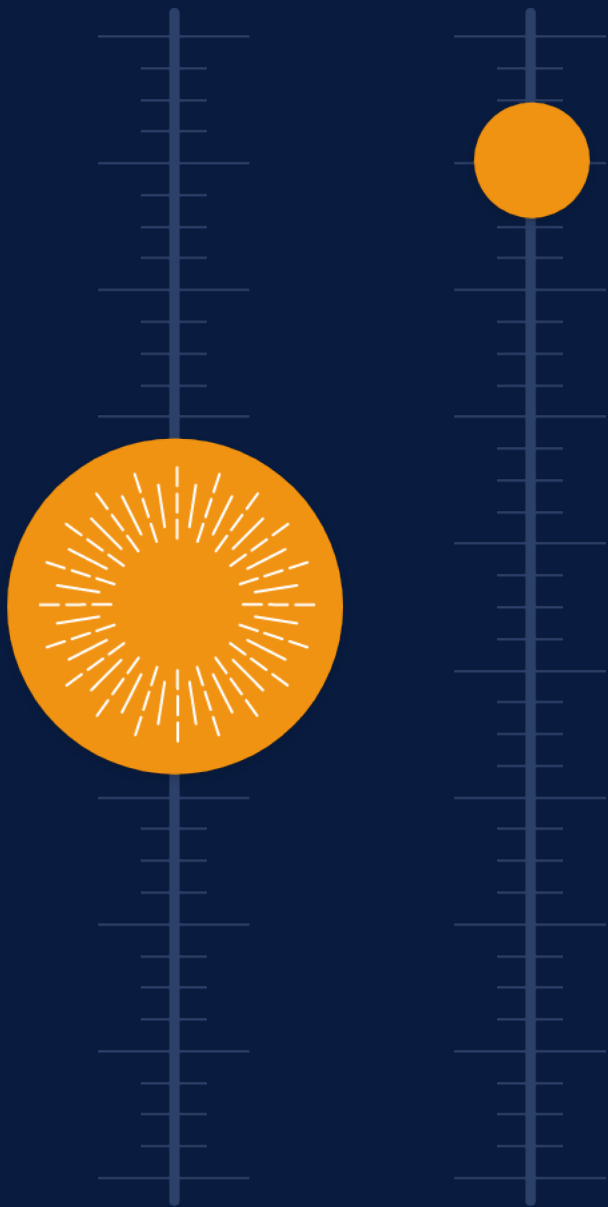
*Professor of Genitourinary Medical Oncology
and Immunology
MD Anderson Cancer Center*

Clinical pipeline focused on value creation

PROGRAM	INDICATION	PRECLINICAL	PHASE 1	PHASE 2	PHASE 3
<i>Adenovirus Platform</i>					
CAN-2409 Prostate Cancer	<i>Localized, Intermediate/High Risk, under SPA</i>				
	<i>Active Surveillance</i>				
CAN-2409 Lung Cancer	<i>NSCLC + PD-1/PD-(L)1</i>				
CAN-2409 Pancreatic Cancer*	<i>Borderline Resectable Pancreatic Adenocarcinoma</i>				
<i>HSV Platform</i>					
CAN-3110 Brain Cancer	<i>Recurrent High-Grade Glioma</i>				
enLIGHTEN™ Discovery Programs	<i>Solid Tumors</i>				

SPA - special protocol assessment

* Enrollment paused, subject to additional funding







CAN-2409



Off-the-shelf therapy, individualized cancer response

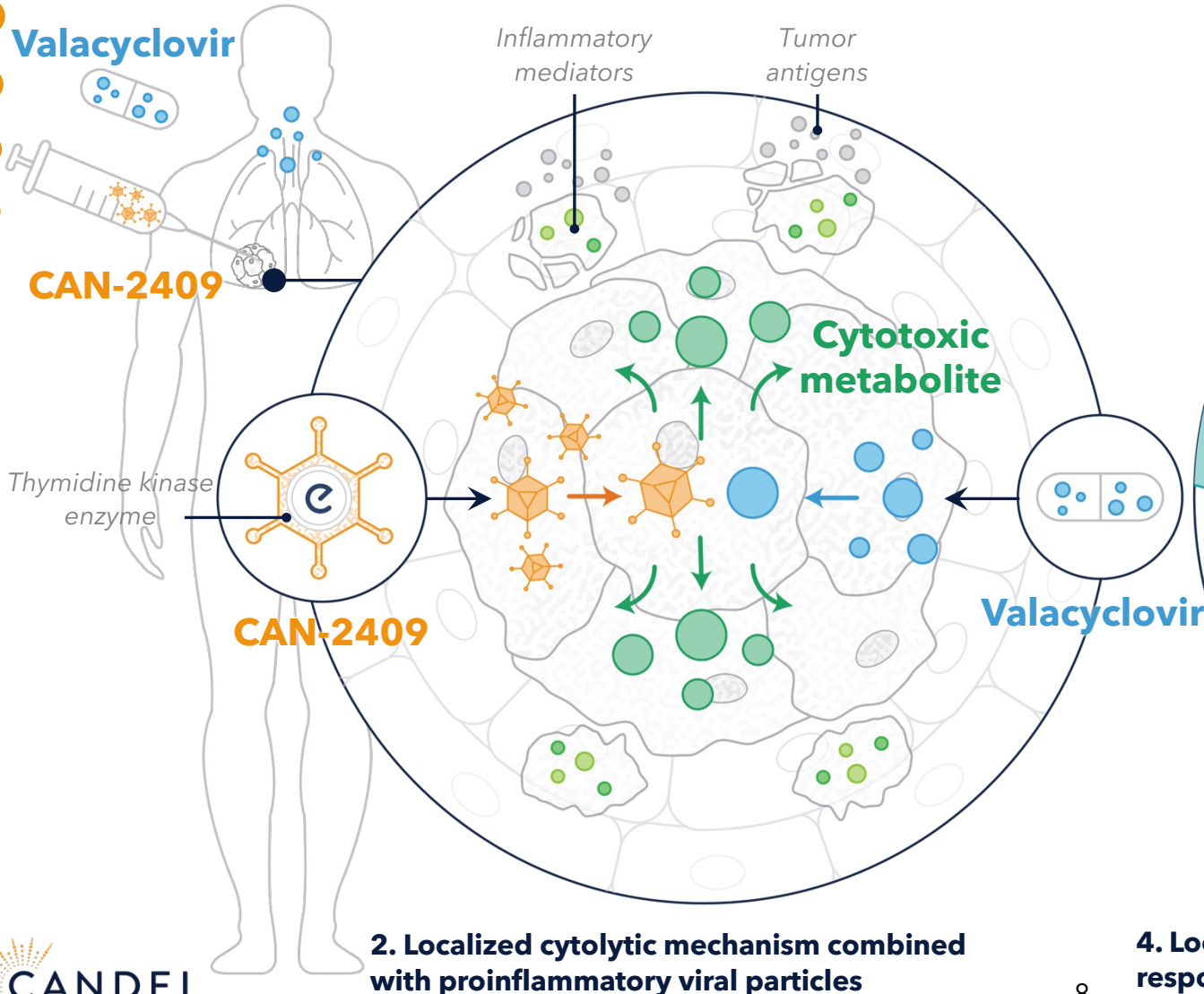
CAN-2409: Development program

"Pipeline in a Product" approach advancing multiple programs in several large indications

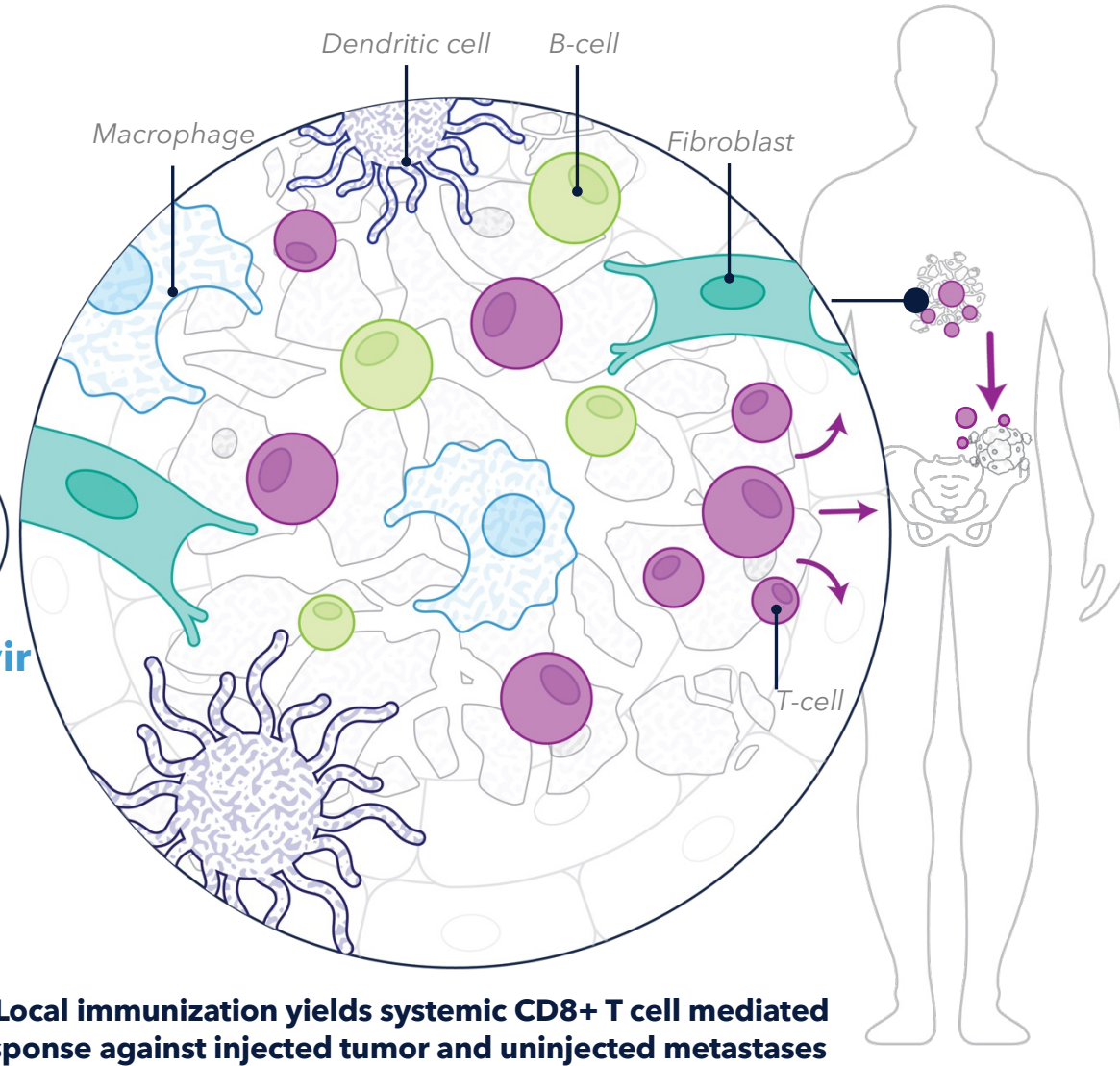
Candidate	Indication	Description	Current Phase			Timing of Next Milestone
			Phase 1	Phase 2	Phase 3	
CAN-2409	<i>Localized Prostate Cancer Intermediate / High Risk</i>	<ul style="list-style-type: none"> 711 patients 2:1 Randomization Primary Endpoint: Disease-free survival 				Q4:2024
CAN-2409	<i>Localized Prostate Cancer Active Surveillance</i>	<ul style="list-style-type: none"> 187 patients 2:1 Randomization Primary Endpoint: Progression-free survival 				Q4:2024
CAN-2409 +PD-1/PD-(L)1	<i>Non-Small Cell Lung Cancer</i>	<ul style="list-style-type: none"> Fast-track status 80 patients Primary Endpoint: Response by RECIST criteria and disease control rate 				Q2:2024
CAN-2409	<i>Borderline Resectable Pancreatic Adenocarcinoma</i>	<ul style="list-style-type: none"> ~36 patients 2:1 Randomization Primary Endpoint: Safety and survival rate at 24 mos 	 * Enrollment currently on hold			Q4:2023

CAN-2409: Systemic immunotherapy delivered intratumorally

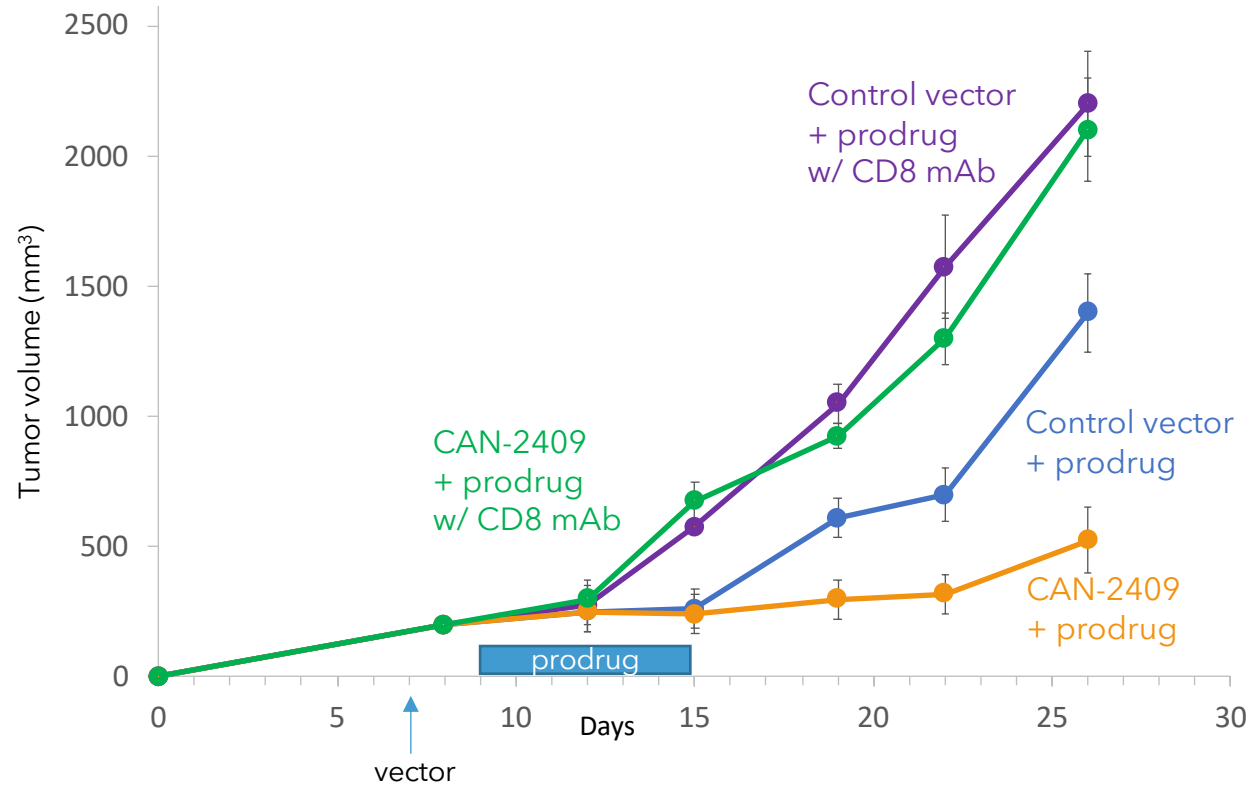
1. CAN-2409 locally administered combined with oral prodrug



3. CAN-2409 induces CD8+ cytotoxic T cells

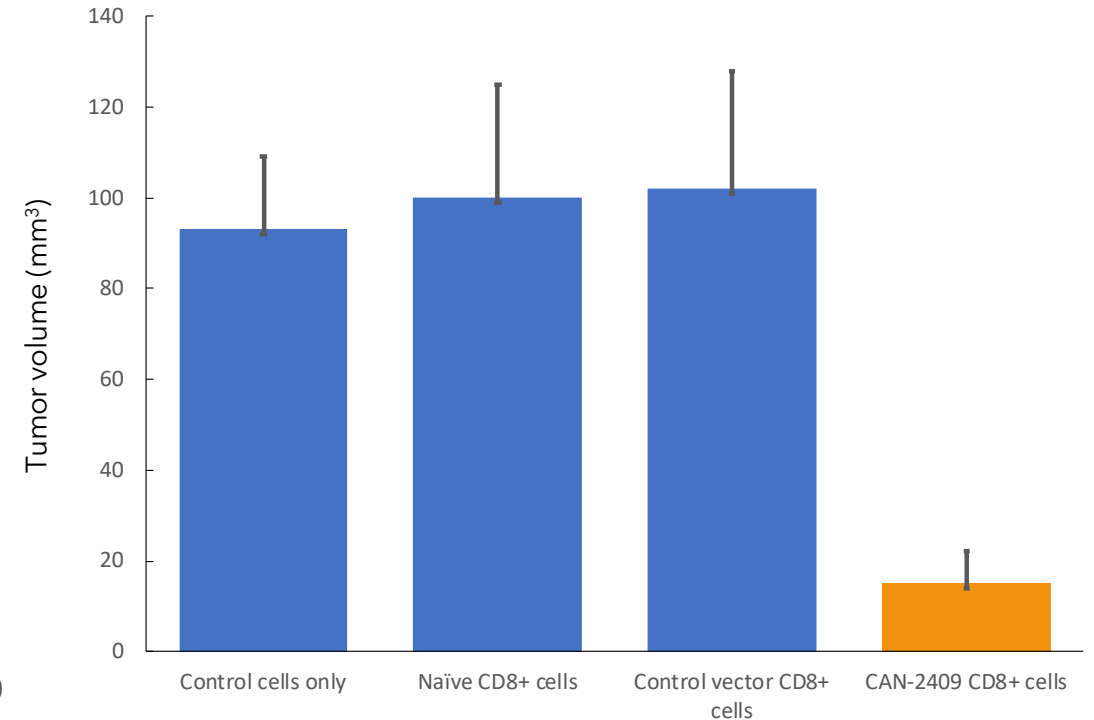


Response to CAN-2409 treatment is dependent on CD8+ T cells and transferable in mouse models of cancer



Depletion of CD8+ cells eliminates effect

Esophageal cancer model (AKR) flank tumors in C57Bl/6 mice (n = 8 per group)

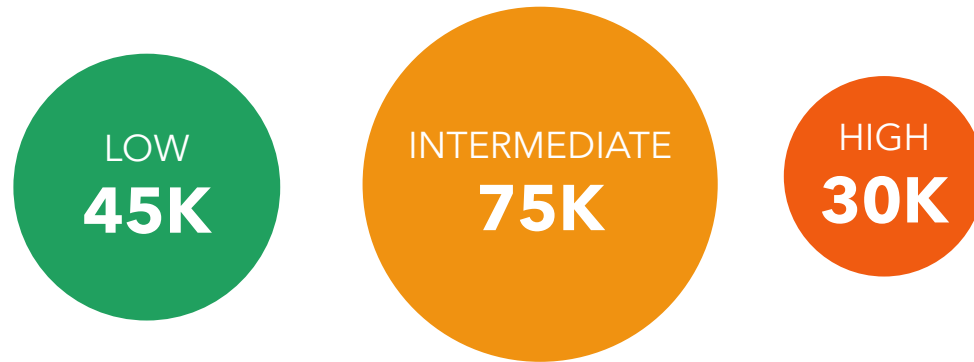


CD8+ cells from 'cured' mice protect naïve mice from tumor challenge

Winn Assay: Lung cancer model (TC-1) flank tumors in C57Bl/6 mice (n = 5 per group)

CAN-2409: Prostate cancer opportunity

Incidence of localized prostate cancer in the US by risk level

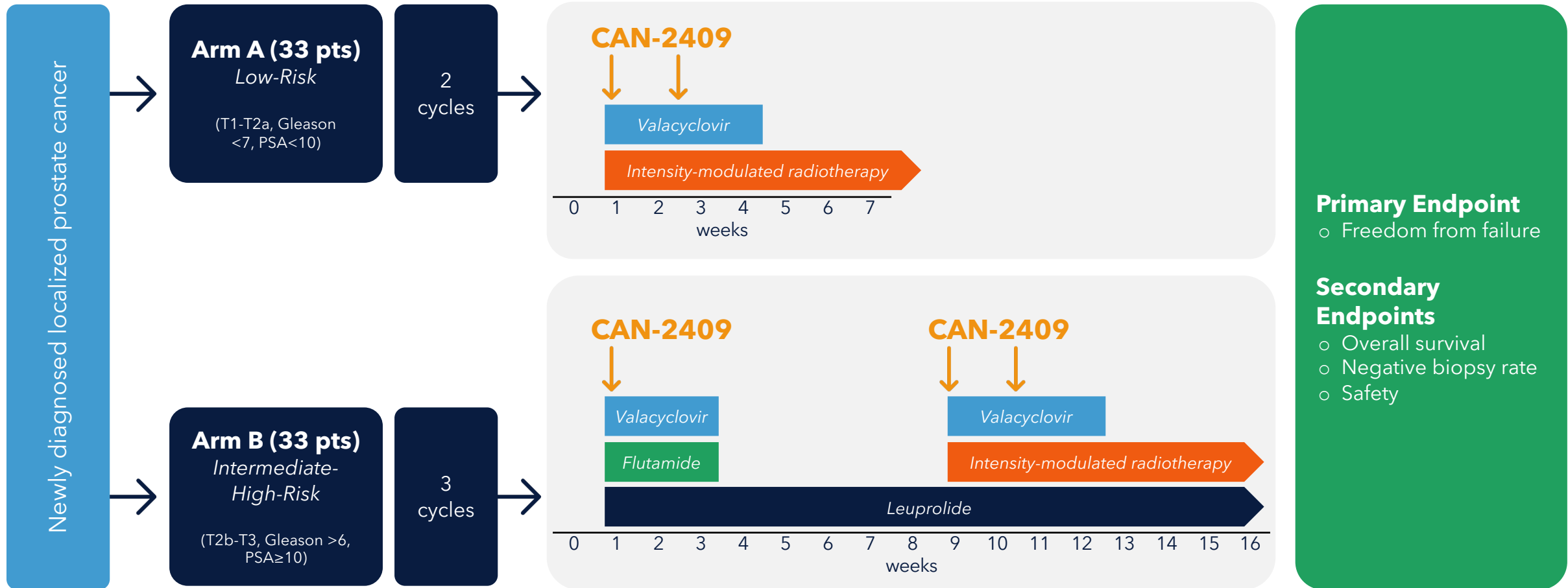


- Prostate cancer is the second leading cause of cancer death among men in the US
- Many men diagnosed with early low/intermediate risk prostate cancer opt for active surveillance over available treatment options, which have a multitude of side effects and impair quality of life
- Within 10 years, 21-38% of these men develop intermediate/high risk cancers that require interventions where the standard of care is radical prostatectomy and radiotherapy combined with ADT/chemical castration
- No new treatments approved for newly diagnosed, localized prostate cancer during the last > 15 years
- Significant opportunity for new treatment for both the active surveillance and intermediate/high risk populations with a favorable tolerability profile and potential to reduce progression and/or recurrence
- Prostate cancer therapy market globally was estimated at \$13B in 2022 and is expected to grow to \$21B by 2028*

Target label for CAN-2409#

- **Indicated in newly diagnosed localized prostate cancer in combination with radiotherapy +/- short-term ADT, in patients with intermediate- to high-risk disease**
- **Indicated in newly diagnosed localized prostate cancer in patients with NCCN-defined low-risk disease, or patients with intermediate-risk disease undergoing active surveillance**

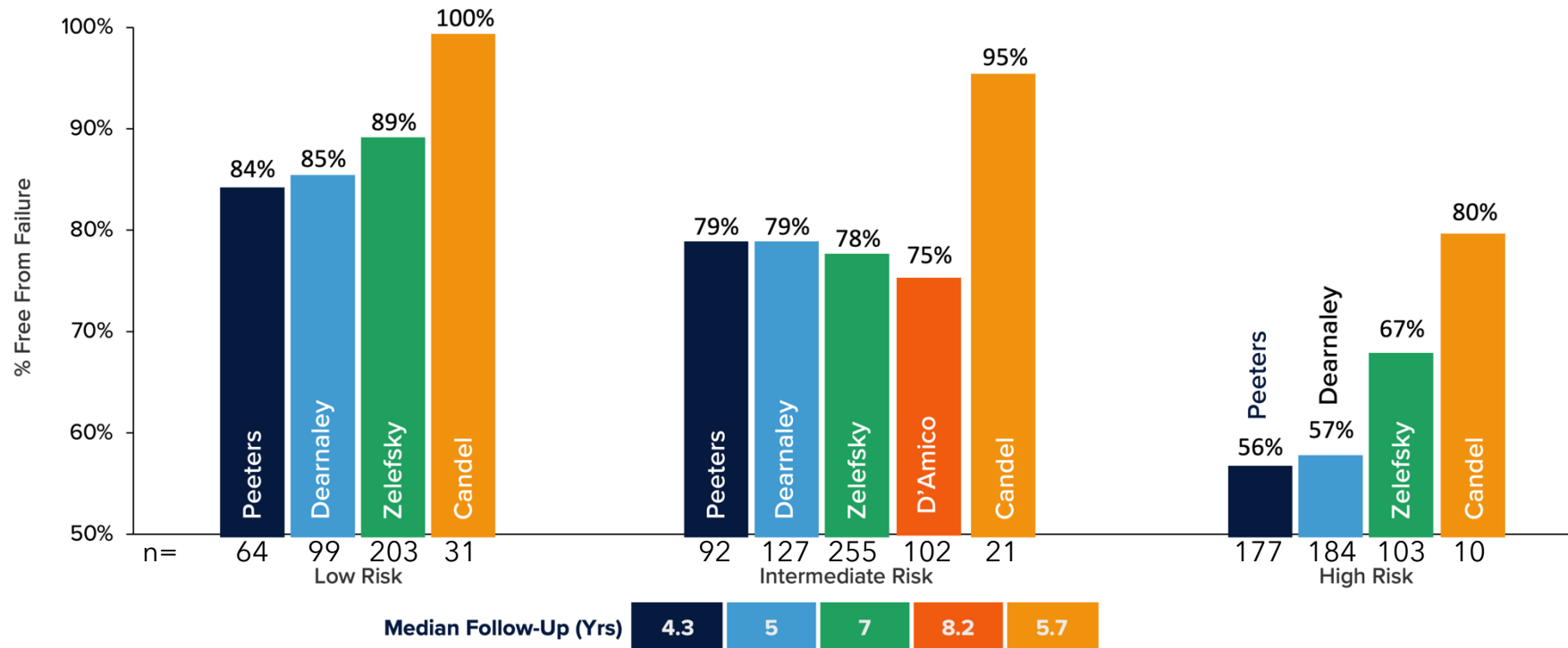
Completed phase 2a clinical trial of CAN-2409 combined with radiotherapy +/- androgen deprivation therapy



Completed phase 2a trial demonstrated consistently improved freedom from failure rates in newly diagnosed, localized prostate cancer

- Pathological complete response (pCR) observed in 93% of the biopsies available at 2yrs (37%-73% in control populations)
- Low risk patients achieved PSA < 2ng/ml in 77% of CAN-2409 treated patients versus 58% in control populations
- Significant increase in activated CD8+ T cells compared to baseline (p=0.0003)

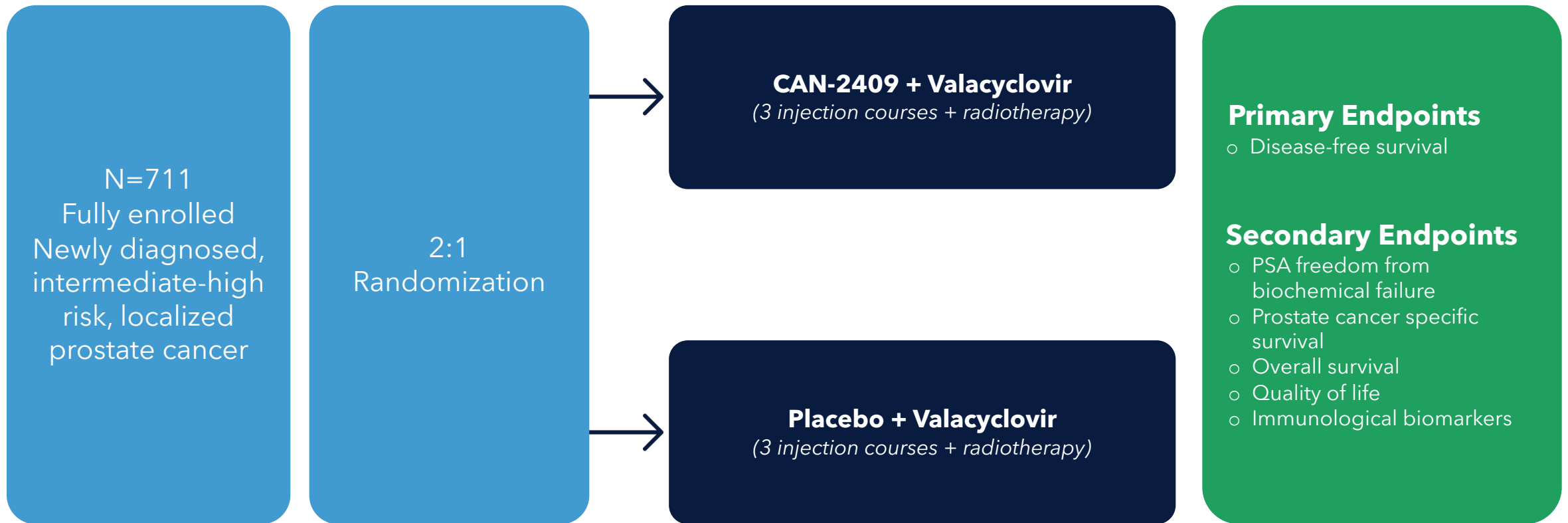
Clinical evidence supports ongoing phase 3 clinical trial of CAN-2409 in combination with SoC as first line treatment



Failure was measured from the start date of treatment until the date of treatment failure defined as clinical failure or biochemical failure, whichever first, according to the Phoenix ASTRO consensus (Nadir +2)

Fully accrued phase 3 clinical trial of CAN-2409 in patients with prostate cancer – Newly diagnosed, intermediate/high risk population

PIs: Dr. T. DeWeese (JHU) and Dr. P. Scardino (MSKCC)

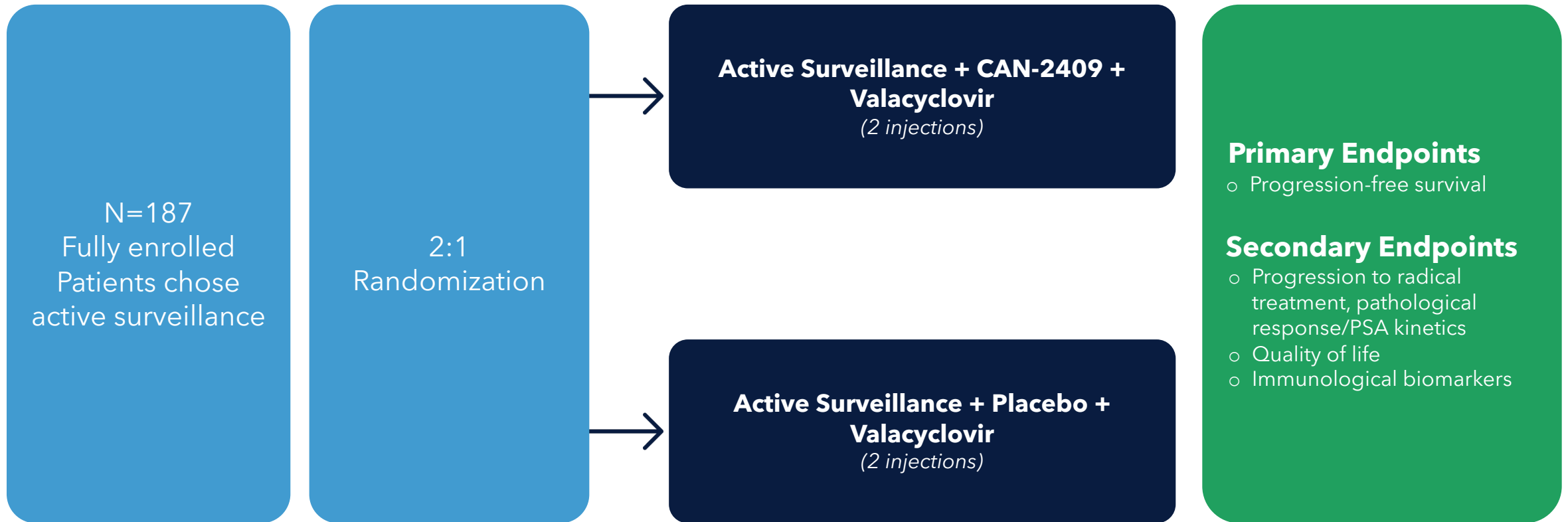


NCT01436968

Conducted under agreement with FDA under Special Protocol Assessment

Fully accrued phase 2b clinical trial of CAN-2409 in patients with prostate cancer – Active surveillance population

PI: Dr. S. Eggener (UChicago)



Ongoing phase 2b clinical trial: CAN-2409 is generally well-tolerated

Monotherapy – Active surveillance population

~ 33% patients experienced flu-like symptoms

< 1% infections requiring hospitalization

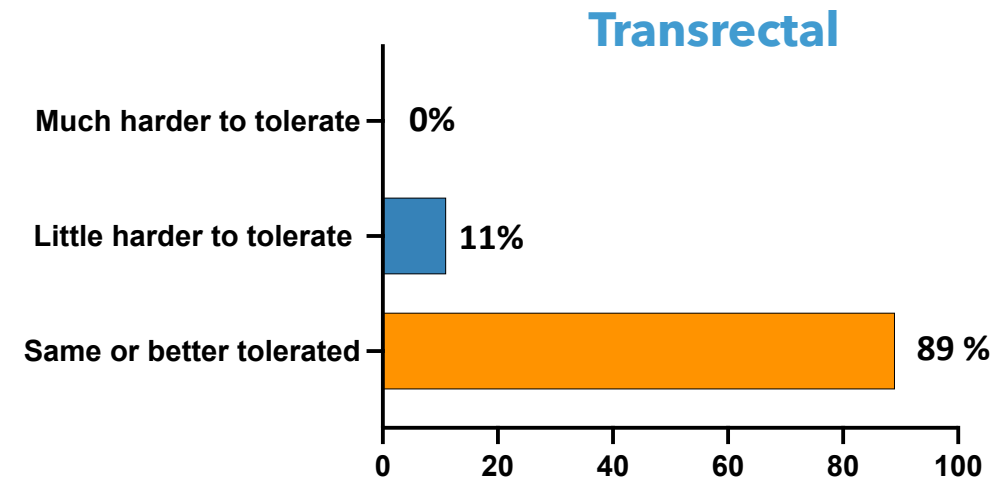
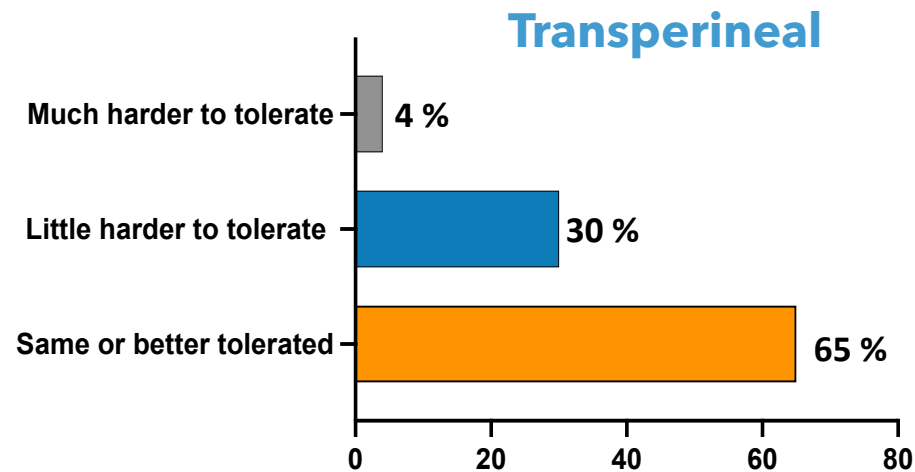
Study is still blinded
187 patients treated
362 injections performed

Most common PT (>=5%)	CTC grade				n=187
	1	2	3	4	Total (%)
Flu-like symptoms	40 (21)	20 (11)	1 (1)	0	61 (33)
Chills	39 (21)	13 (7)	1 (1)	0	53 (28)
Fever	39 (21)	9 (5)	1 (1)	0	49 (26)
Fatigue	27 (14)	10 (5)	1 (1)	0	38 (20)
Elevated AST/ALT	28 (15)	3 (2)	1 (1)	0	32 (17)
Elevated Creatinine	23 (12)	5 (3)	1 (1)	2 (1)	31 (17)
Headache	20 (11)	5 (3)	0	0	25 (13)
Urinary tract infection	1 (1)	15 (8)	2 (1)	0	18 (10)
Nausea	12 (6)	4 (2)	0	0	16 (9)
Low Hemoglobin	15 (8)	0	0	0	15 (8)
Diarrhea	10 (5)	3 (2)	0	0	13 (7)
Malaise	10 (5)	2 (1)	0	0	12 (6)
Hematuria	12 (6)	0	0	0	12 (6)
Urinary frequency	9 (5)	2 (1)	0	0	11 (6)
Urinary tract pain	6 (3)	3 (2)	0	0	9 (5)
Urinary urgency	7 (4)	2 (1)	0	0	9 (5)
Elevated Alkaline Phosphatase	8 (4)	1 (1)	0	0	9 (5)
Elevated Bilirubin	7 (4)	3 (2)	0	0	10 (5)

Ongoing phase 3 clinical trial: Most patients tolerate intraprostatic injection same or better than prostate biopsy

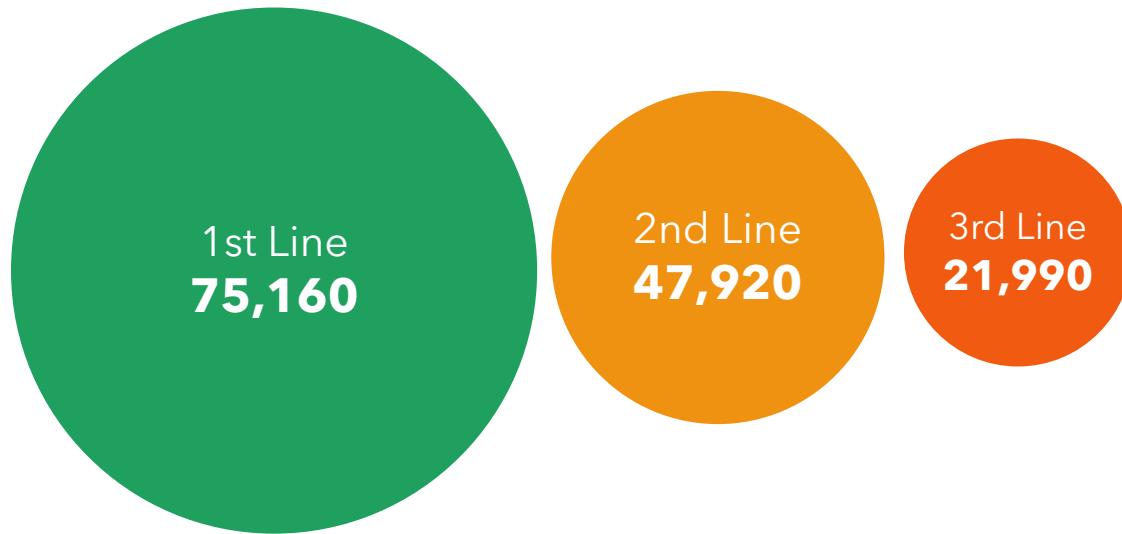
Patient questionnaire substudy n=32

In total > 2000 intraprostatic injections
(40% transperineal; 56% transrectal; 4% not reported)
"How did you tolerate the study procedure as compared to a prostate biopsy?"



CAN-2409: Non-small cell lung cancer opportunity

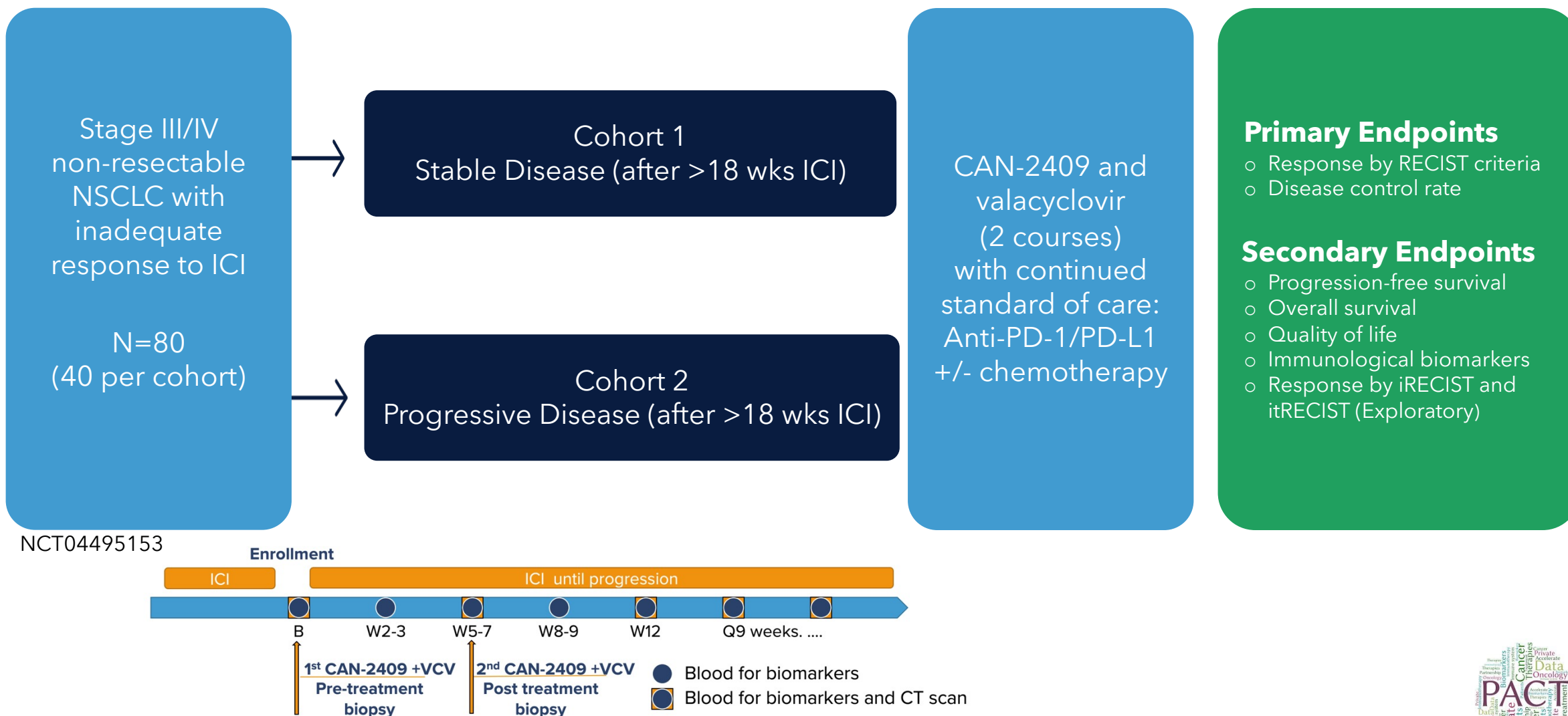
Prevalence of NSCLC in the US



- Lung cancer is the most commonly diagnosed cancer in the US with NSCLC representing over 80% of all lung cancer diagnoses
- Majority of NSCLC patients without actionable mutations are treated with immune checkpoint inhibitors (ICI) as 1st line treatment
- After one year of ICI treatment, 60% of patients will have progressive disease*
 - In ICI inadequate responders:
 - Median progression-free survival 4-6 months
 - Median overall survival 10-13 months
- Significant opportunity to improve response to ICIs by teaching the immune system to recognize the cancer cells
- NSCLC cancer therapy global market was estimated at \$27B in 2022 and is expected to grow to \$55B by 2028**

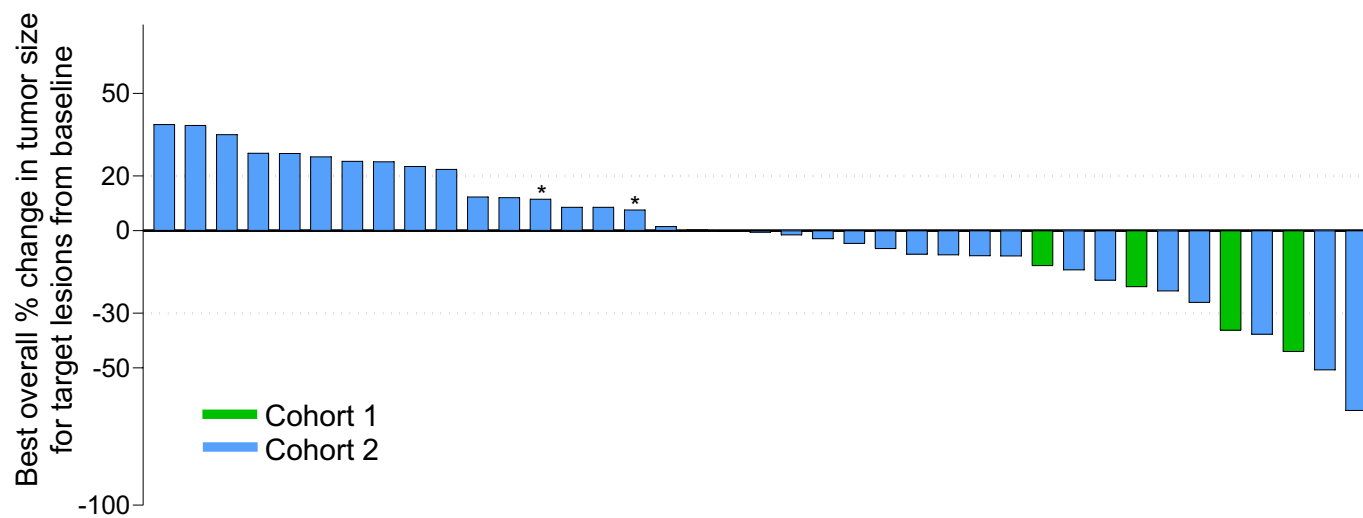
Target label for CAN-2409: Indicated as adjunct to standard-of-care immune checkpoint inhibitor treatment (+/- chemotherapy) in stage III / IV NSCLC patients not responding to first-line or later ICI treatment[#]

Ongoing phase 2 clinical trial of CAN-2409 + continued ICI in stage III/IV NSCLC patients with an inadequate response to ICI



Evidence that CAN-2409 controls disease

Most patients entering clinical trial with progressive disease despite immune checkpoint inhibitor treatment achieved disease control after administration of CAN-2409



Coh	N	PR	SD	PD	ORR	DCR	DoR for PR ²	SD duration ²
1	4 ¹	2	2	0	50%	N/A	7.7 mo. (2.7+ to 12.8+)	4.9 mo (3.6+ to 6.2)
2	35	3	20	12	9%	66%	6.1 mo (2.8+ to 16.3)	3.9 mo (1.4+ to 14.5)
Total	39	5	22	12	13%	N/A		

¹ An additional evaluable patient in Cohort 1 had a pending central read at time of data cutoff

² Median (range) for DoR and SD duration

+ indicates response was ongoing at date of last follow up

Data shown based on blinded independent central review (BICR) of radiographic data per RECIST 1.1 in evaluable patients

Evaluable patients are those who received 2 courses of CAN-2409 + prodrug (valacyclovir) and completed the 12-week treatment window

*Disease progression due to a new lesion

PR: partial response, SD: stable disease, PD: progressive disease, ORR: objective response rate, DCR: disease control rate, DoR: duration of response

Partial response in extended lung mass with durable post-treatment tumor regression after CAN-2409 treatment (> 2 years, ongoing)

PA-003 (Cohort 1)

73M, Stage III non-squamous NSCLC diagnosed Jan'20
PD-L1<1%

Initial therapy: pembro + carbo + pemetrexed Feb'20

Maintenance: pembro + pemetrexed from Jun'20 which continued on-trial

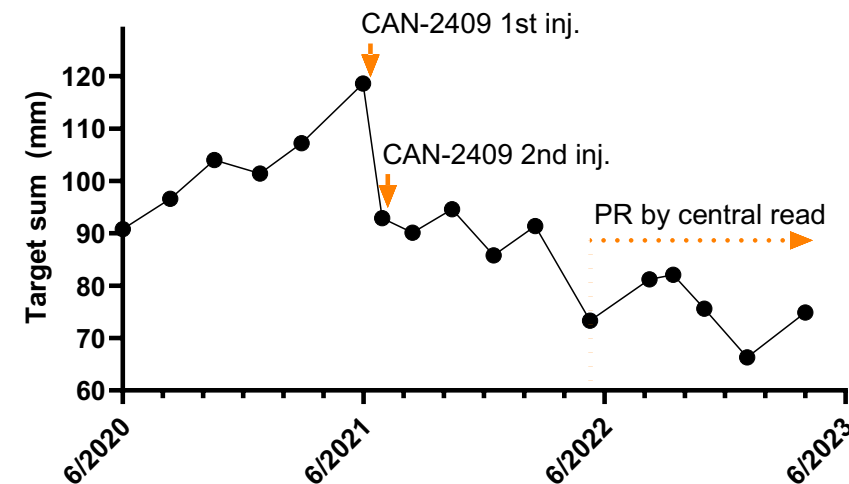
OS 24 mo (ongoing as of LFV)

Legend

RECIST target lesions (red)

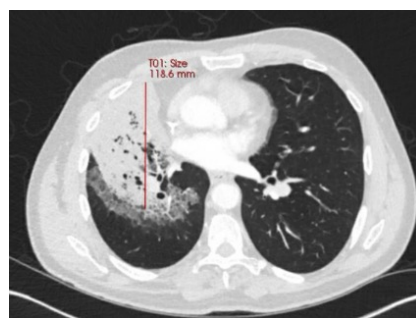
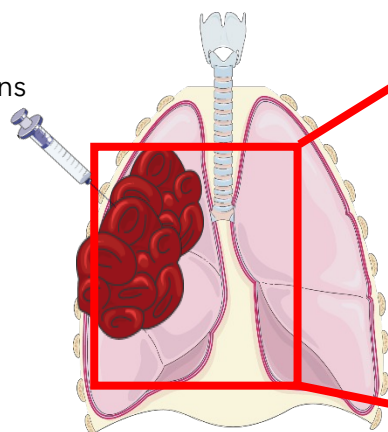
LN = lymph node; LA = long axis; SA = short axis

LFV: last follow up visit



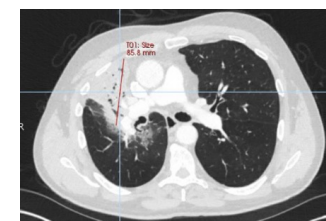
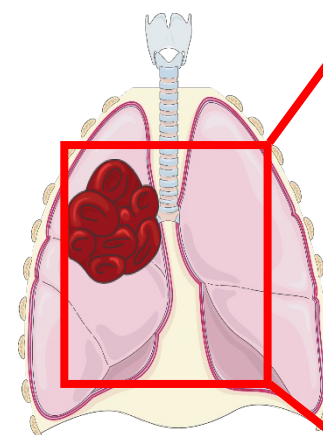
Baseline

Both injections



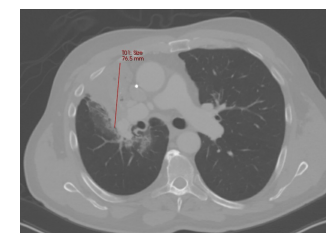
Right middle lobe
LA: 118.6 mm
Target lesion

Site of both injections



6 Months

LA: 85.8 mm
Target lesion



24 Months

LA: 76.5 mm
Target lesion

Patient with continued tumor shrinkage after CAN-2409 treatment

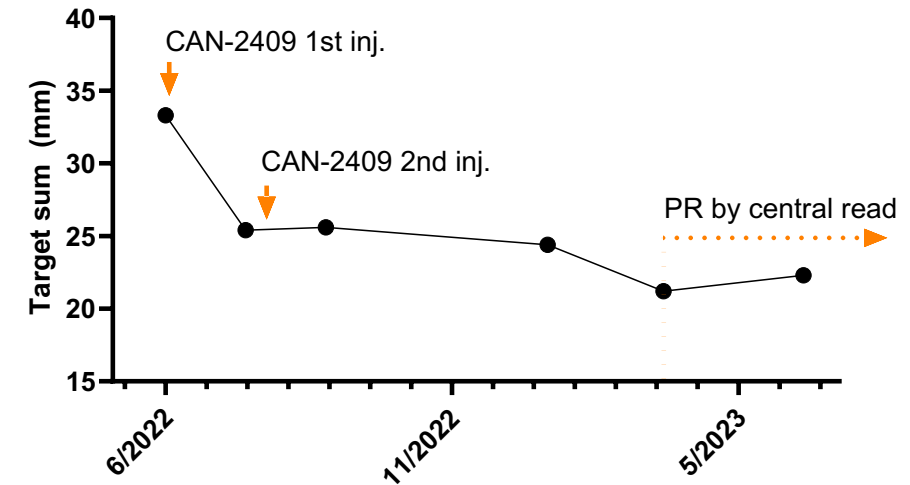
VB-007 (Cohort 1)

84F, Stage IV non-squamous NSCLC diagnosed Aug'21

PD-L1 < 1%; SMARC4 alteration

Initial therapy: platinum-based chemotherapy + pembro

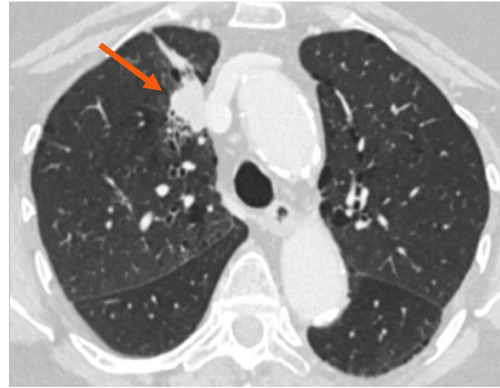
Maintenance: pembro which continued on-trial
OS 12.1 mo (PR is ongoing as of LFV)



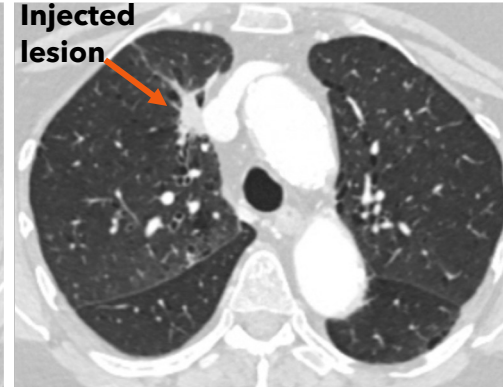
FDG-PET



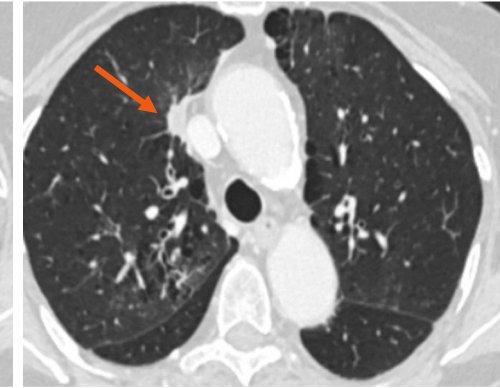
Treatment Naïve



Prior to 1st injection



Post 2nd injection



1 year after 1st injection

Local injection induces systemic anti-tumor activity

Evidence of abscopal effect, survival > 27 months (ongoing) after CAN-2409 treatment

NY-007 (Cohort 2)

74M, Stage IV non-squamous NSCLC diagnosed Feb'19

PD-L1 <1%

Initial therapy: cisplatin/etoposide Feb-Jul'19

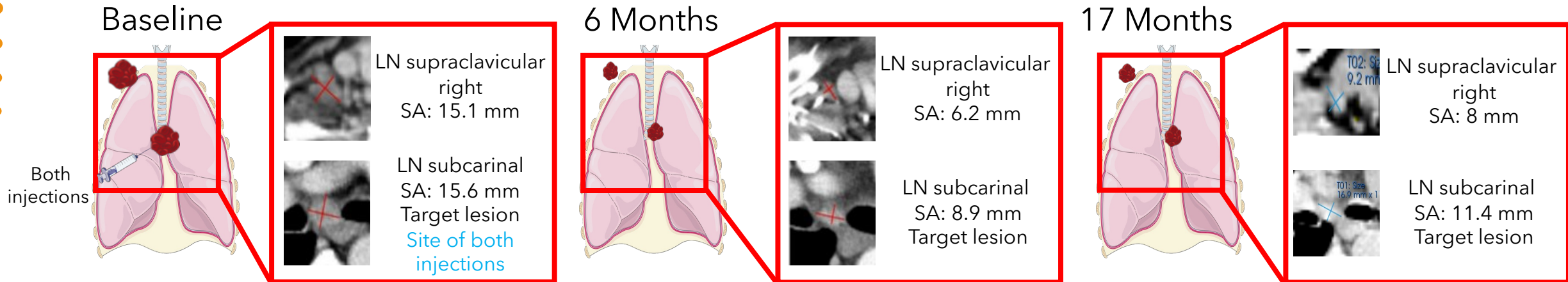
Maintenance: nivolumab from Sep'19, continued on-study

OS 27.9 mo (ongoing as of LFV)

Legend

RECIST target lesions (red)

LN = lymph node; LA = long axis; SA = short axis



Schematics to show general lesion injection orientation;
not to scale

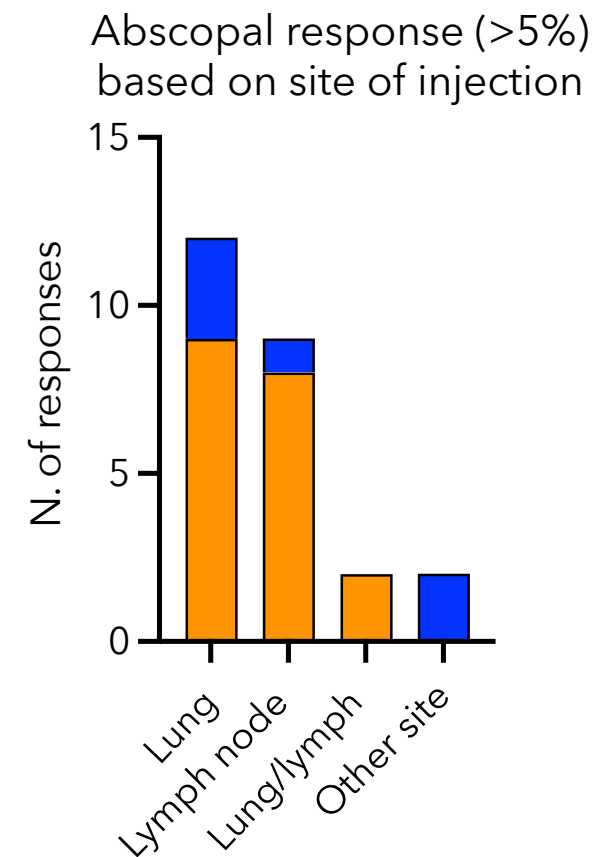
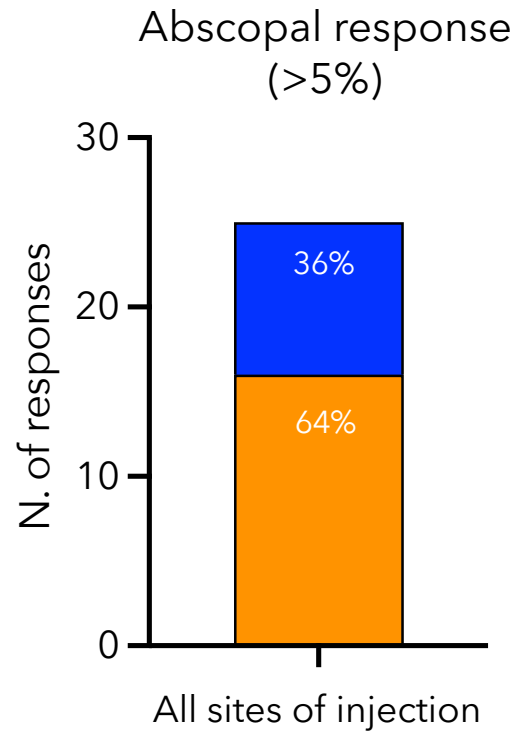
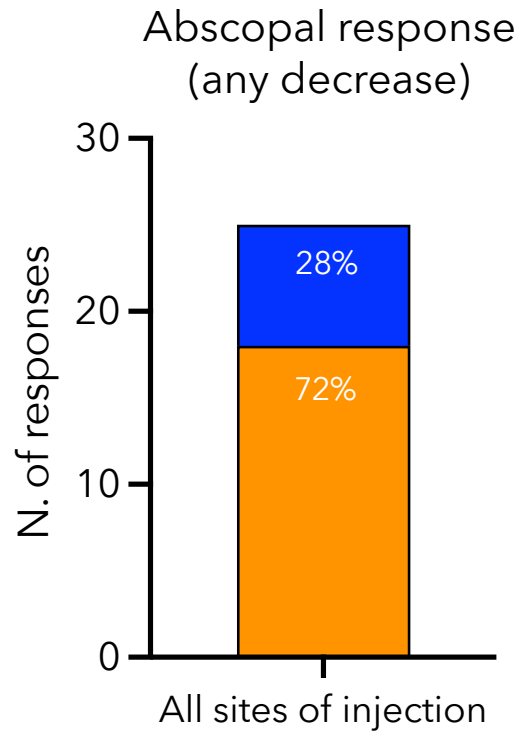
22


Note: From ongoing phase 2 NSCLC trial as of cutoff date, 1 Aug 2023.


Data on file, September 2023

Local injection induces systemic anti-tumor activity

Regression of uninjected lesions in about two-thirds of evaluable patients presenting with multiple lesions



 Abscopal

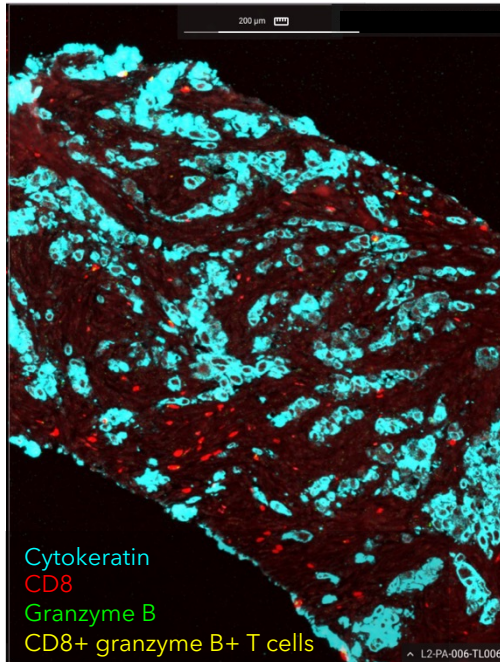
 Non abscopal

Center and right panel: Decrease of at least 5% observed in at least one noninjected lesion

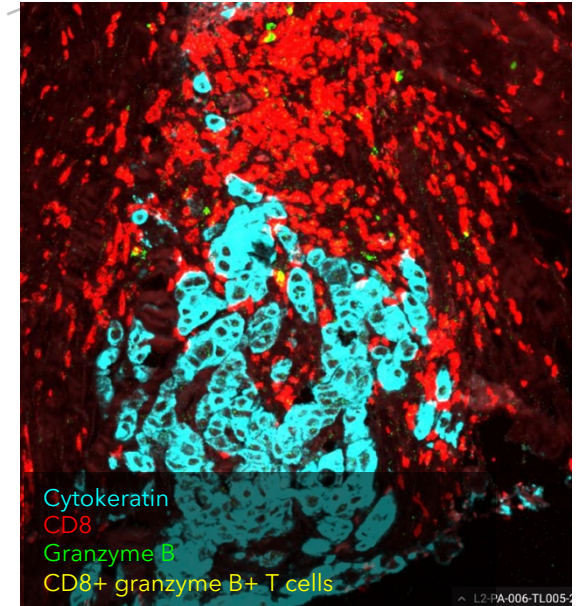
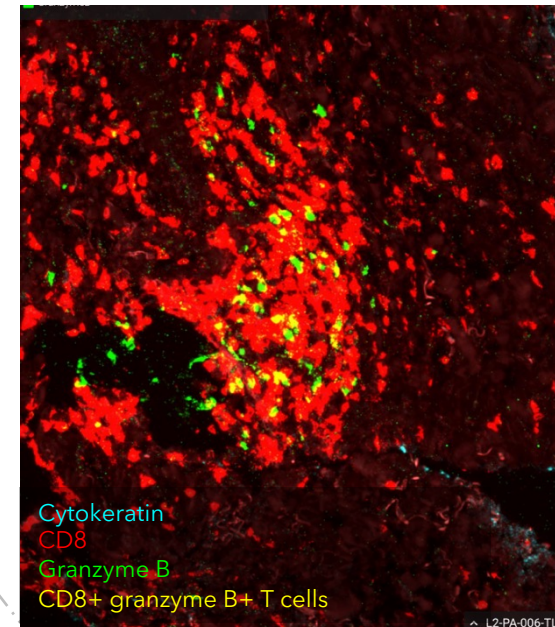
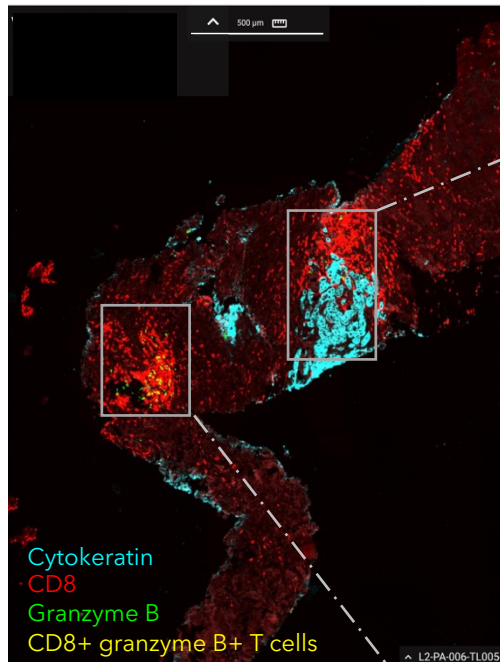
CAN-2409 induces expansion of CD8+ granzyme B+ T cells in the tumor microenvironment

PA006

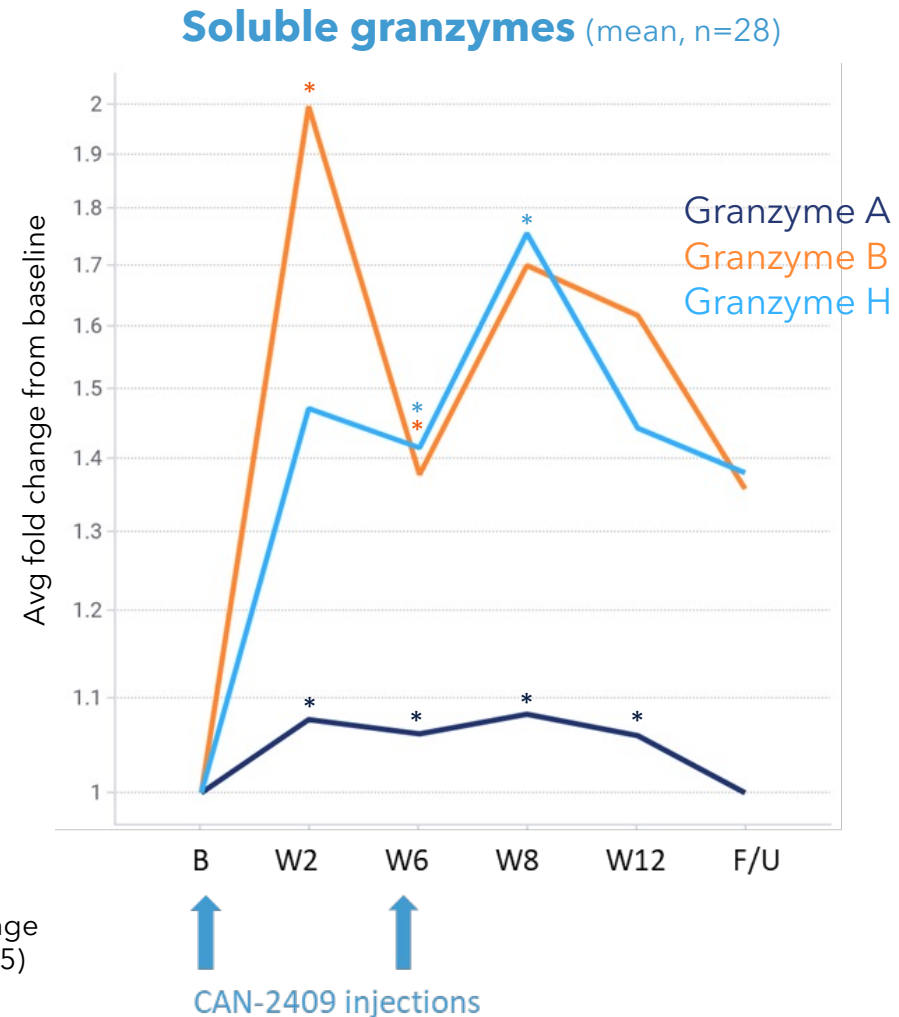
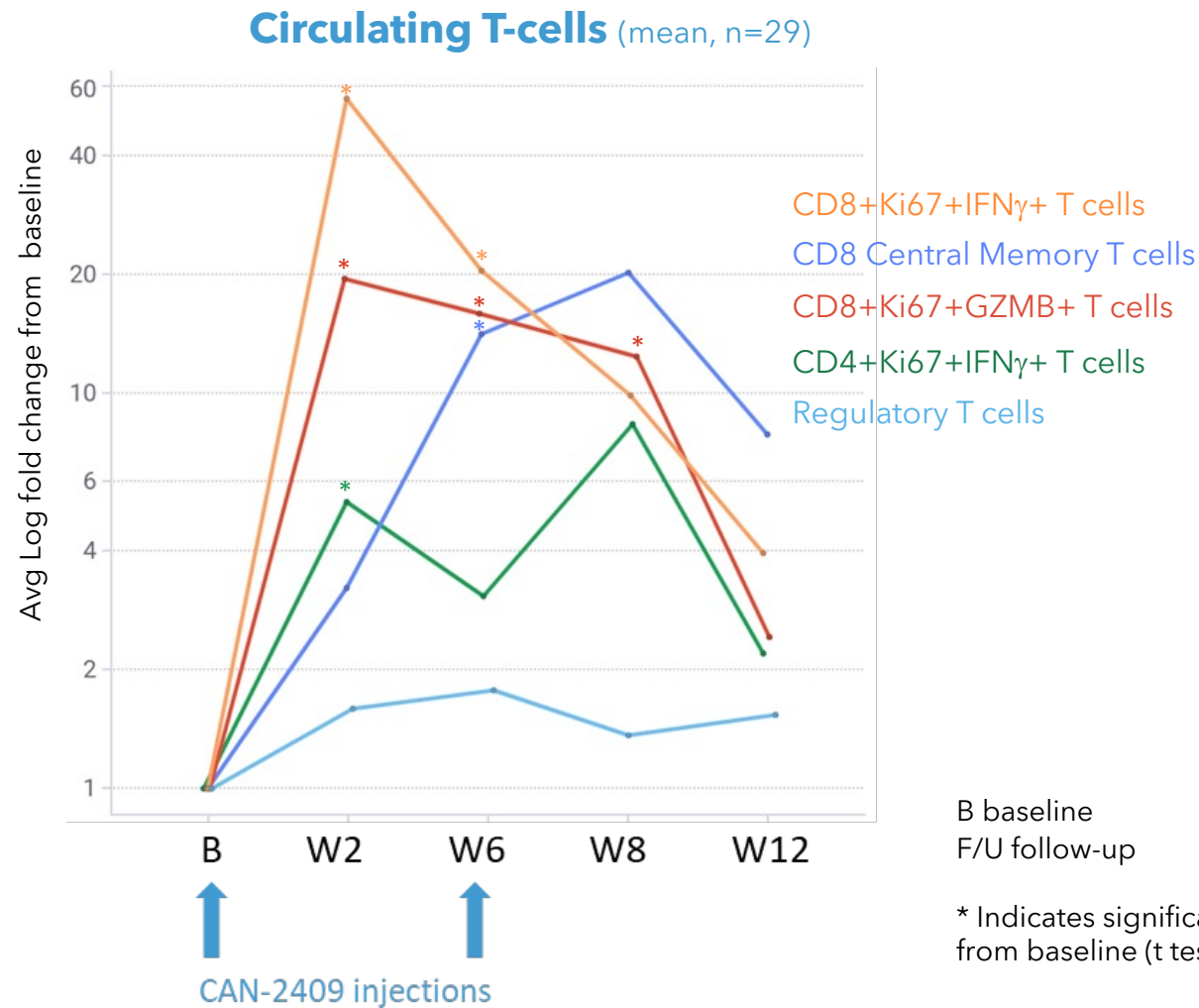
Pre CAN-2409



Post CAN-2409



CAN-2409 significantly increases frequency of circulating cytotoxic T cells and serum levels of soluble granzymes

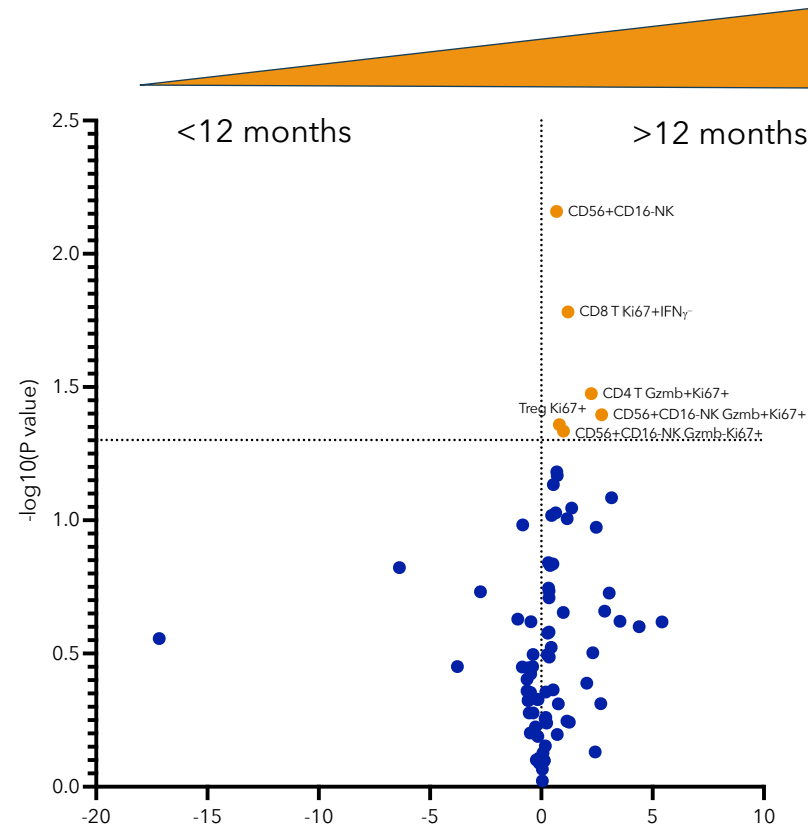


B baseline
F/U follow-up

* Indicates significant change from baseline (t test $p < 0.05$)

Early changes in immune cells in peripheral blood after CAN-2409 treatment are associated with prolonged survival

Changes in circulating cells post 2nd injection



Multiparameter flow cytometry
Fold changes between 1st and 2nd injection in short (< 12months; n=6)
and long (> 12 months; n=11) survivors

Note: From ongoing phase 2 NSCLC trial as of cutoff date, 1 Aug 2023.

Bronchoscopic delivery of CAN-2409 is a simple extension of existing care for NSCLC patients and is well-tolerated

Majority of lung and thoracic lymph node lesions are accessible for outpatient bronchoscopic injection



- Therapeutic delivery tool based on extensive experience with bronchoscopic biopsy, a routine outpatient procedure (15 min, outpatient setting)
- Transbronchial needle injection (TBNi) presents similar complication rate as biopsy (extremely rare)
- Latest generation of TBNi includes ultrasound-guided transbronchial injection of lymph nodes and robotic bronchoscopy (already in use in LuTK02)

Systemic immunotherapy delivered intratumorally

- Intra-tissue injection is a proven strategy for in situ vaccination
- Optimal benefit/risk by minimizing systemic toxicity
- Systemic immune response: not all metastases need to be injected
- Durable responses after only 2-3 administrations
- Procedure is well tolerated by patients:
 - Administration to prostate takes 15-20 min in outpatient setting, often better tolerated than prostate biopsy, which is a routine procedure in urology
 - Administration to lung tumor takes 15-20 min in outpatient setting via bronchoscopy, which is a routine procedure in pulmonary medicine
 - For future indications, any location can be reached using image-guided injection, robotic delivery etc.
- Procedures with proven benefit/risk, patient tolerability, and cost-effectiveness will always be implemented by clinicians
 - Stem cell transplantation, implant radiotherapy, interventional radiology, interventional cardiology

Encouraging safety, clinical activity and immunological changes after CAN-2409

Initial data suggests 12-month survival is consistent with an increased tail on the maturing survival curve

- Encouraging number of long survivors suggests CAN-2409 may induce a new state of functional immunosurveillance and durable disease control in a subset of patients
- Of the 40 evaluable patients, 15 patients have lived ≥ 12 months; of these, 10 have lived > 18 months, of whom 70% (7/10) were alive as of last follow up. All 4 patients (100%) with OS > 24 months were alive at last follow up, with the longest reaching 31.7 months (data cutoff Aug 1, 2023)
- An additional 18 (out of the 40 evaluable) patients are also alive but have not yet reached 12 months of follow up

Negative or low PD-L1 status appears to be associated with long survival in CAN-2409 treated patients

- Many patients treated with CAN-2409 have had long survival (≥ 12 months) despite having disease features generally associated with advanced disease and reduced likelihood to benefit from immune checkpoint inhibitor therapy, such as low or negative PD-L1 expression

Biomarker data suggests association between immune cell activation and survival

- Scope of antitumoral immune response broadened through demonstration by CAN-2409 to engage the humoral arm of the immune system
- Increase observed in effector/cytotoxic T cells and NK cells in peripheral blood after the second CAN-2409 administration

Topline overall survival data for Cohort 2 expected in Q2 2024

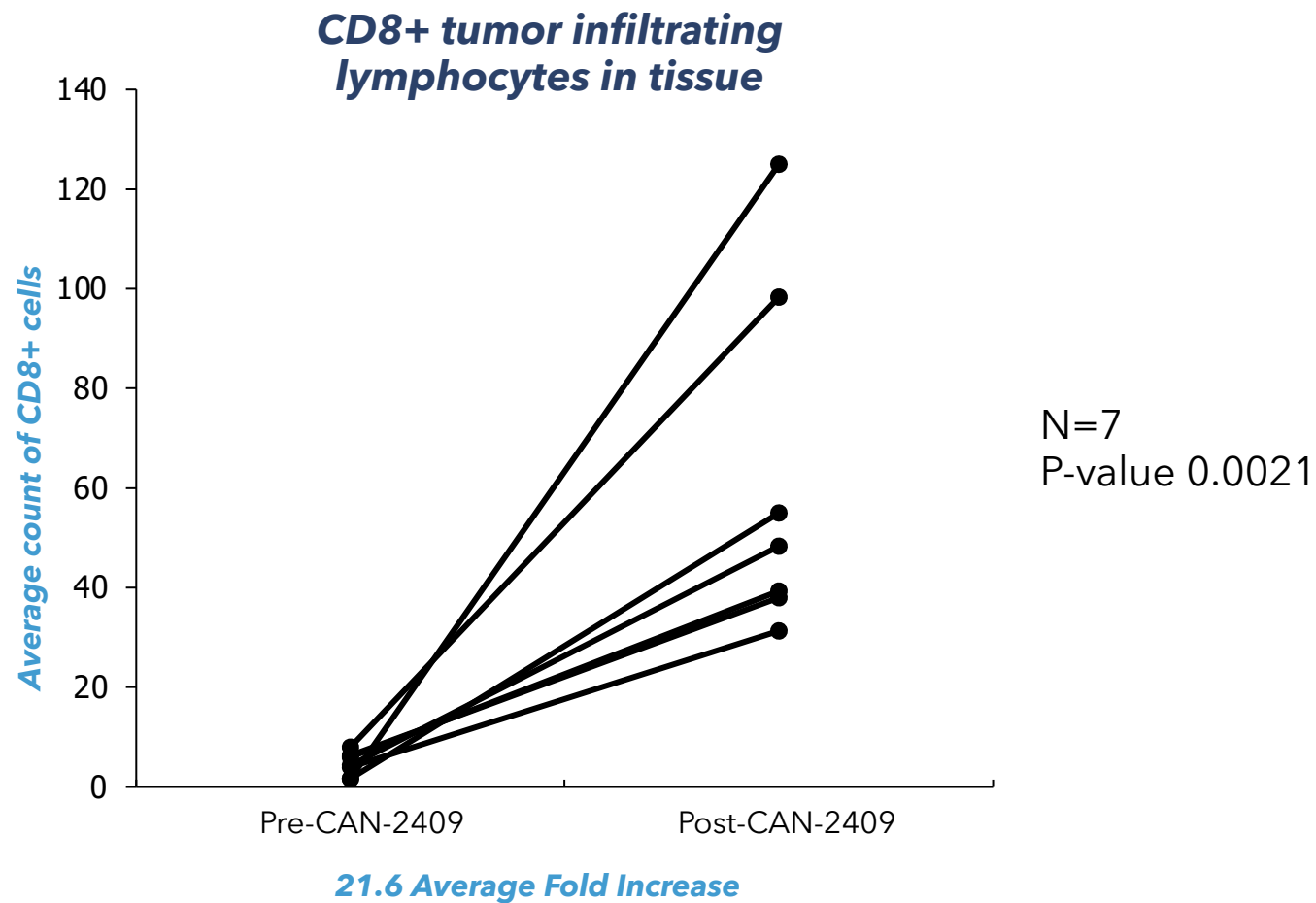
CAN-2409: Pancreatic ductal adenocarcinoma opportunity

Incidence of pancreatic ductal adenocarcinoma in the US by risk level



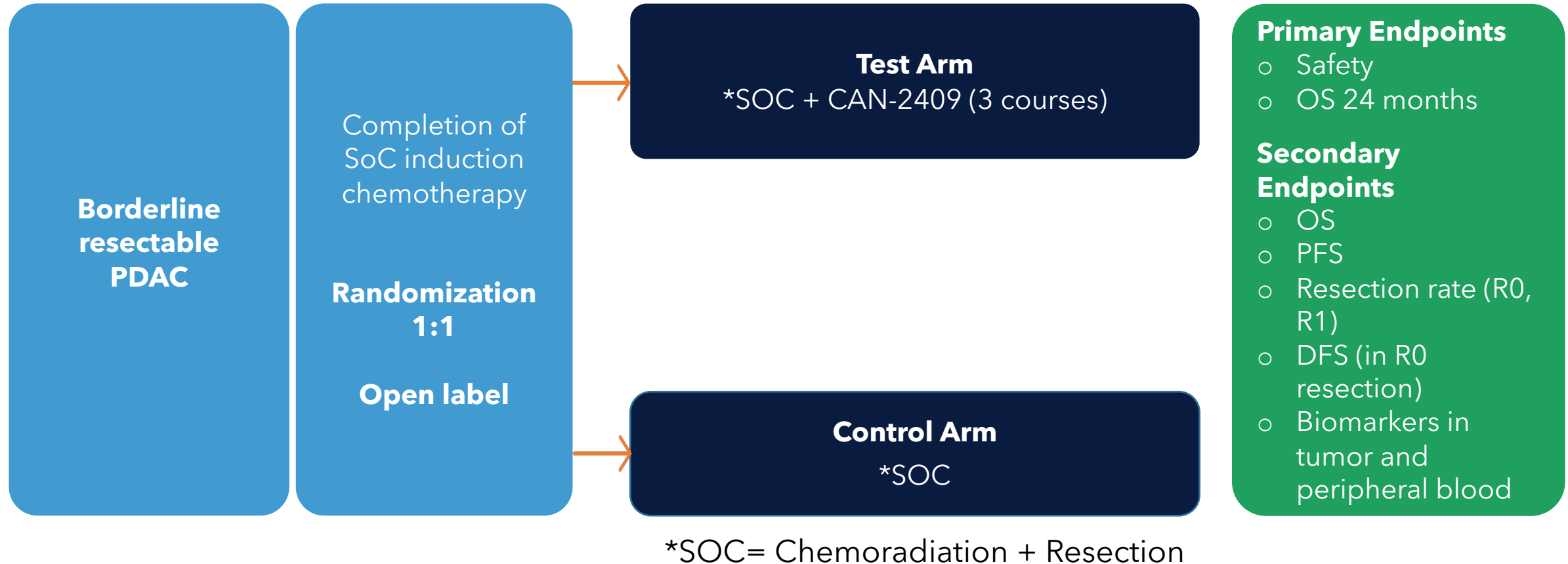
- Limited available treatment options for patients suffering from pancreatic cancer beyond resection when possible and chemotherapy
- Borderline resectable disease: median overall survival ~21-35 months (with neoadjuvant chemo and resection, lower with gem-abraxane or 5FU)
- Locally advanced disease: median overall survival 15-25 months (with neoadjuvant chemo; most cannot be resected)
- Metastatic disease: median overall survival ~11 months (with FOLFIRINOX)
- Significant opportunity to improve response rates by teaching the immune system how to recognize cancer cells
- Pancreatic cancer therapy global market was estimated at \$800 M in 2022 and is expected to grow to \$3.5 B by 2028[#]

Completed phase 1 clinical trial of CAN-2409 in pancreatic ductal adenocarcinoma: Infiltration by CD8+ T cells



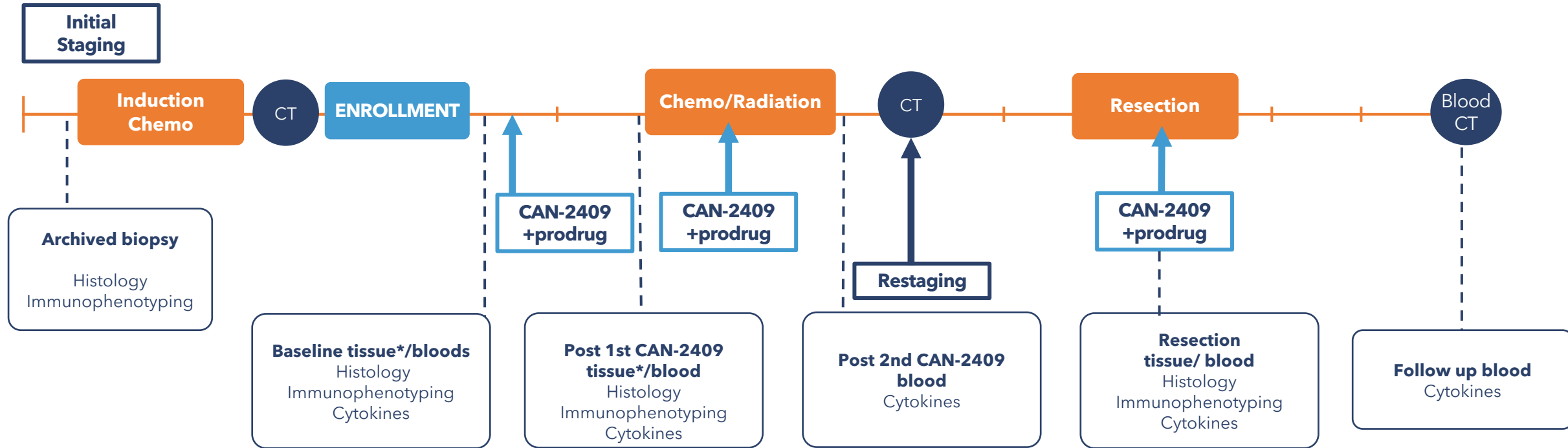
PaTK02: Randomized phase 2 clinical trial of CAN-2409 in borderline resectable pancreatic ductal adenocarcinoma (PDAC)

Reflecting v5/v6 of protocol (data collected to date reflects this design)



SOC treatment timeline in non-metastatic PDAC and timing of CAN-2409 injections

Through v5/v6 of protocol (data collected to date reflects this design)



Induction Chemo

At least two months of induction chemotherapy (e.g. 4 cycles of FOLFIRINOX based or 2 cycles of gemcitabine/nab-paclitaxel),

Chemo/Radiation

Such as capecitabine, 5-FU or gemcitabine concurrent with radiation over 3-5.5 weeks

*** If feasible**

Prodrug = valacyclovir
or IV acyclovir

Nichols G et al. SITC 2023 Abstract 653

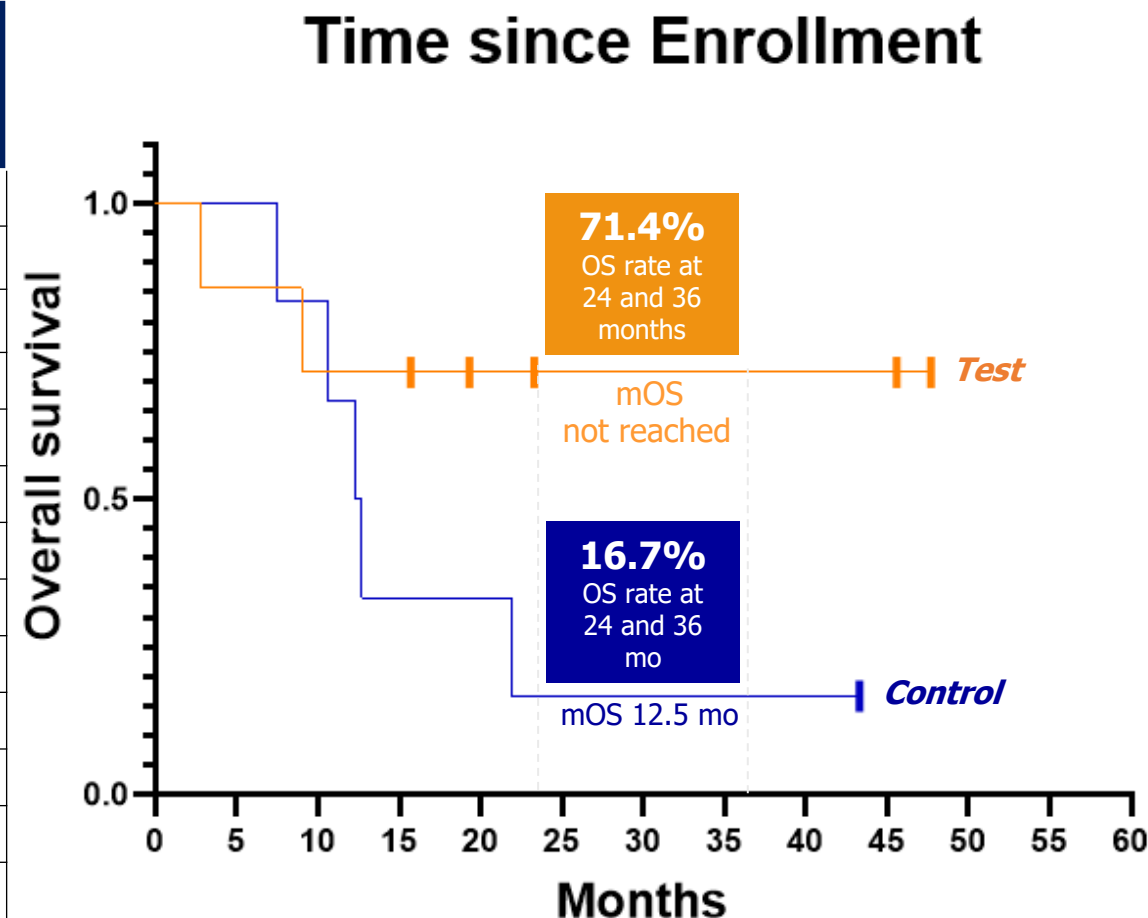
OS in borderline resectable PDAC patients

Data as of 8/21/2023

PCN	Arm	Surgical result	pStage #	Date of last follow-up	OS mo (enrollment)	OS mo (diagnosis)	Alive (A) / Dead (D)
2022PIN	C	Unresected	IV	6/16/2020	10.6	17.2	D
2072PIN	C	Unresected	N/A*	11/13/2020	12.7	52.4	D
2092POS	C	Unresected	N/A*	7/23/2020	7.5	10.3	D
2052PLB	C	Resected	IIA	10/3/2020	12.3	16.9	D
2152PLB	C	Resected	IIB	9/25/2022	21.9	26.8	D
2112PLB	C	Resected	N/A*	8/21/2023	43.3+	47.5+	A
2102PLB	T	Unresected	IV	9/7/2020	9.0	13.7	D
2162PLB	T	Unresected	N/A*	6/9/2021	2.8	8.3	D
2042PIN	T	Unresected	IV	8/11/2023	47.7+	55.2+	A
2172PIN	T	Unresected	N/A*	8/02/2023	23.3+	29.2+	A
2082PLB	T	Resected	IA	8/21/2023	45.6+	50.7+	A
2182PLB	T	Resected	IB	8/21/2023	19.4+	25.9+	A
2192PIN	T	Resected	IA	6/21/2023	15.7+	21.2+	A

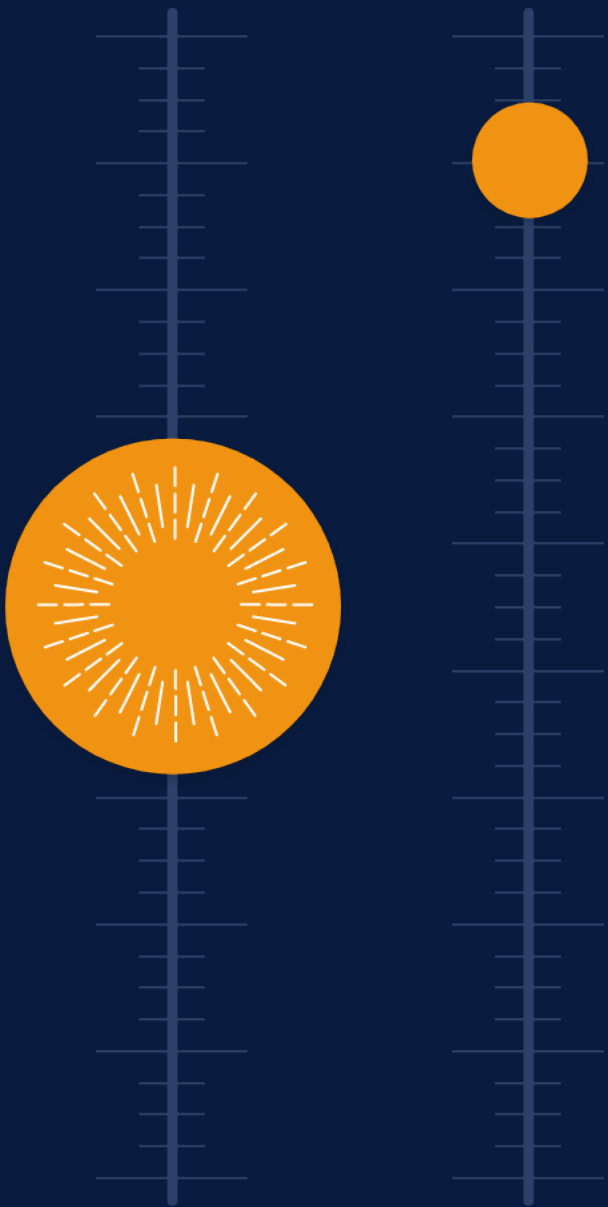
*Refer to slide with details on surgical status

pathologic tumor stage at resection



Censored = alive, still under follow-up

Arm: **C** = Control; **T** = Test (CAN-2409+prodrug)

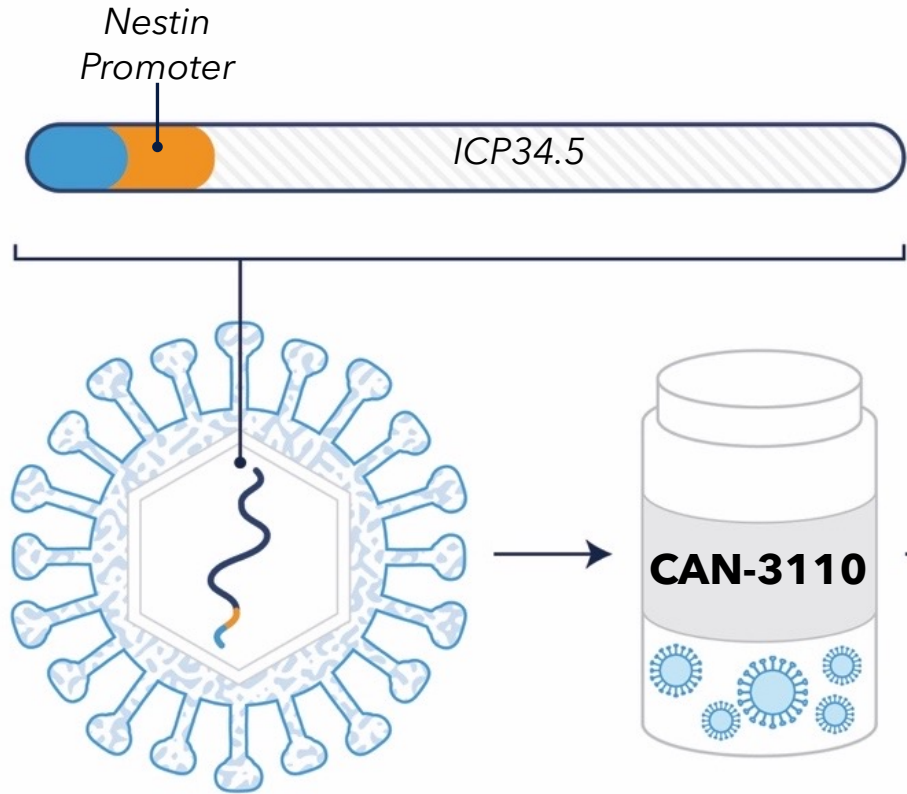


CAN-3110



Oncolytic virus with tumor-specificity

CAN-3110: Replication-competent HSV with tumor-specificity



Nestin expression in tumor cells induces ICP34.5 expression, resulting in tumor-specific replication

Virus expands in Nestin expressing tumor cells, causing oncolytic activity

CAN-3110: High-grade glioma opportunity

Prevalence of glioblastoma in the US



- Glioblastoma, the most common form of high-grade glioma, is a rare and often deadly cancer
- Fewer than 10% of patients survive > 5 years past initial diagnosis
- Median overall survival < 6-9 months in recurrent high-grade glioma
- Current standard of care includes surgical resection with few available therapeutic options
- Significant opportunity to improve survival by teaching the immune system how to recognize the cancer cells and turn 'cold tumors' into 'hot tumors'

Phase 1b clinical trial of CAN-3110 in recurrent high-grade glioma

PI: Dr. E. Antonio Chiocca (Brigham & Women's)

Patients with
recurrent
high-grade
glioma

Lesions ≥ 1.0 cm

Arm A

Dose escalation (Cohort I-IX)

Single stereotactic injection of CAN-3110

3+3 dose escalation
 1×10^6 to 1×10^{10} PFU in half-log increments
30 patients dosed

Dose expansion (Cohort X)

1×10^9 PFU
11 patients dosed

Arm B

Pre-Administration of Cytosan

3×10^8 PFU
 6×10^9 PFU
9 patients dosed

Arm C

Repeat Dosing (up to 6)

+ 1×10^8 PFU x 6 doses
+ 1×10^9 PFU x 6 doses
12 patients targeted



Primary Endpoints

- Safety
- Determine maximum tolerated dose

Secondary Endpoints

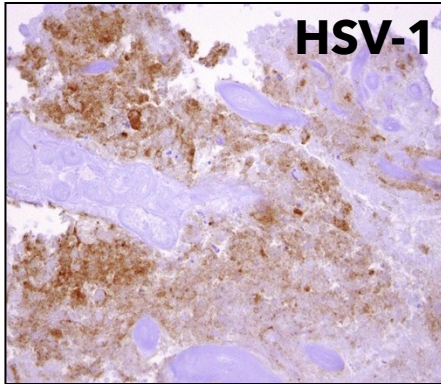
- Immunological biomarkers
- MRI assessment of disease and progression free survival
- MRI alteration of permeability and flow at injection site

NCT03152318

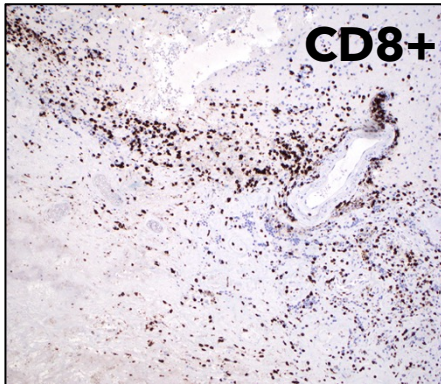
CAN-3110 treatment in patients with recurrent high-grade glioma

Persistent HSV antigen expression in injected tumors as well as uninjected tumors associated with CD8+ T cell infiltration after single CAN-3110 injection

injected
lesion

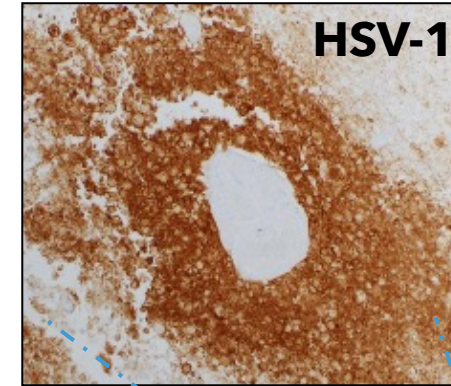


HSV1 antigen 6 weeks after injection of 1×10^6 pfu
 1.79×10^6 copies of viral DNA/mg
 2.97×10^5 copies of viral RNA transcript (ICP22)/mg



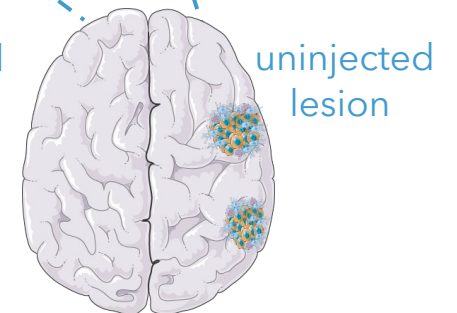
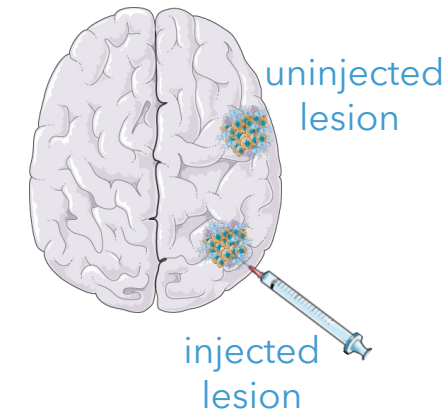
Infiltration by CD8+ cytotoxic T cells
(tumor infiltrating lymphocytes)

uninjected
lesion



Pre-treatment

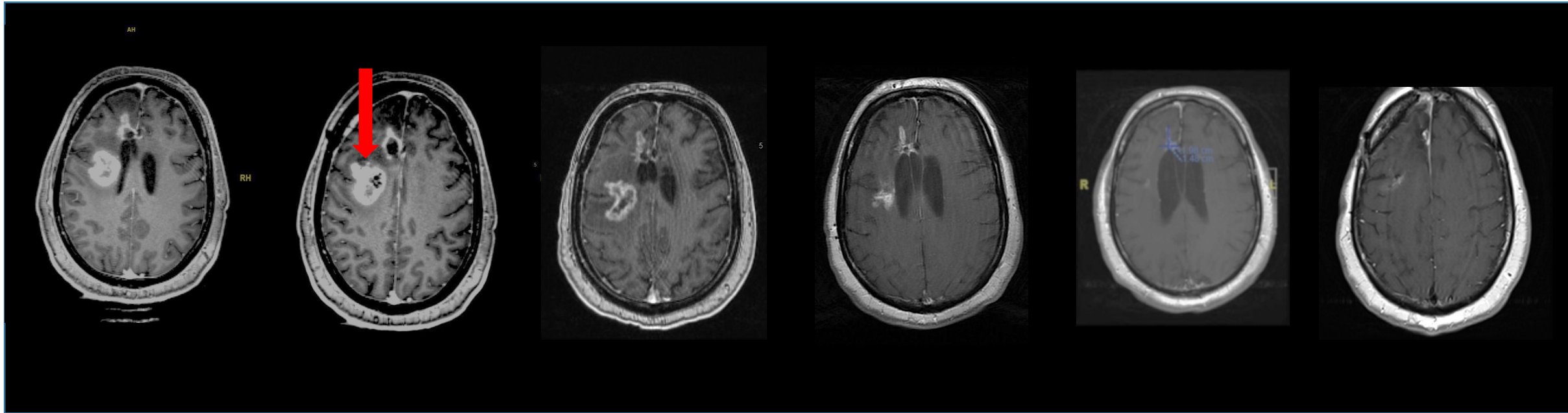
Post-treatment*



*8 months

Monotherapy activity of CAN-3110 in recurrent high-grade glioma (arm A)

Clinical effect on injected tumor and uninjected tumor



Baseline

Day 0

Black hole within tumor
image is injection site
10⁶ PFU dose

Day 56

Reduction in contrast area
with no additional treatment

Day 111

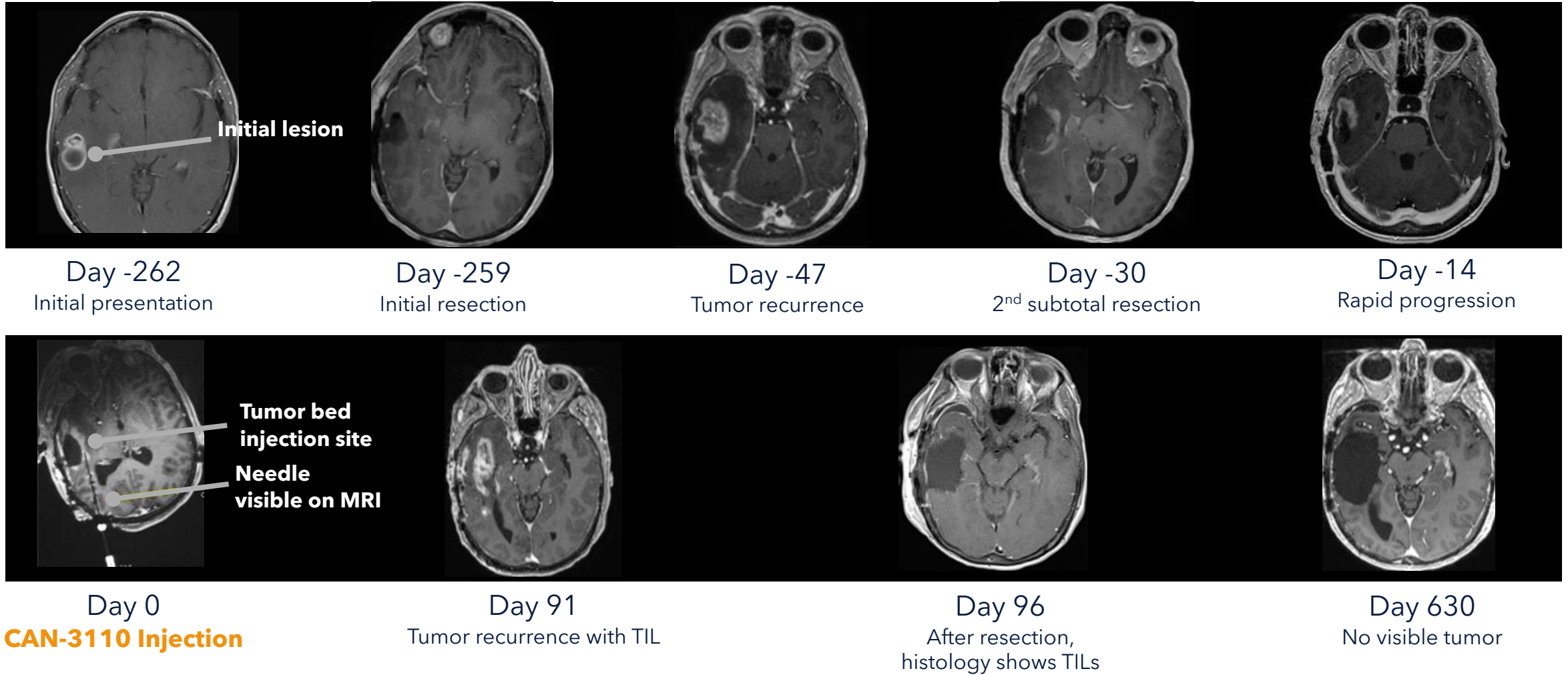
Patient back to work

Day 168

Day 280

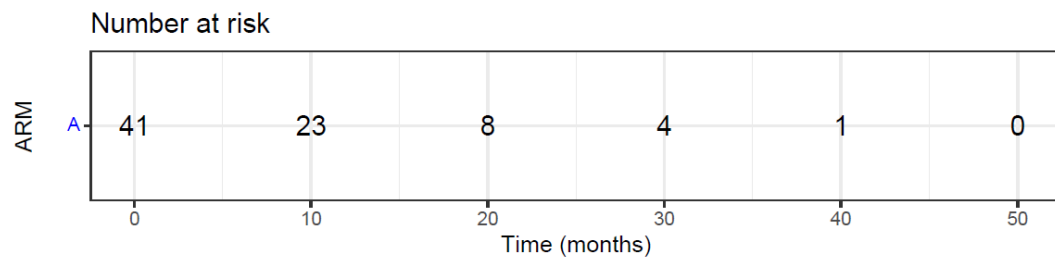
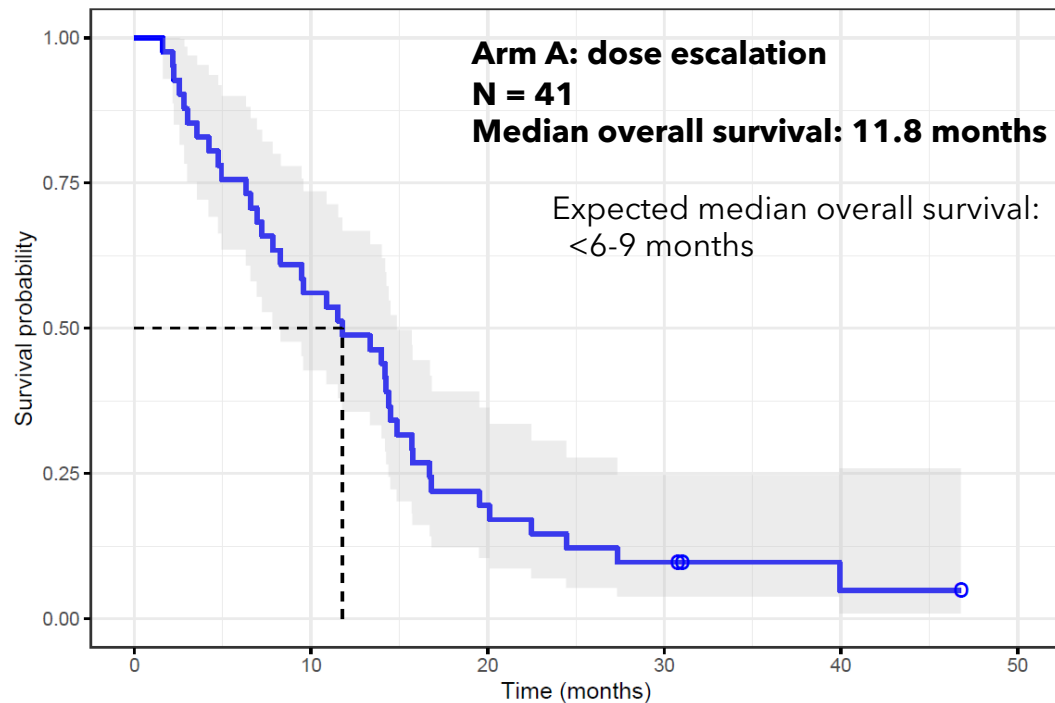
56 YOM, IDH wild-type, MGMT partially methylated, right frontal mesial lesion initially treated with GTR, chemoradiation. Recurrences at two sites.

Durable response for 2 years after CAN-3110 in recurrent high-grade glioma (arm A)

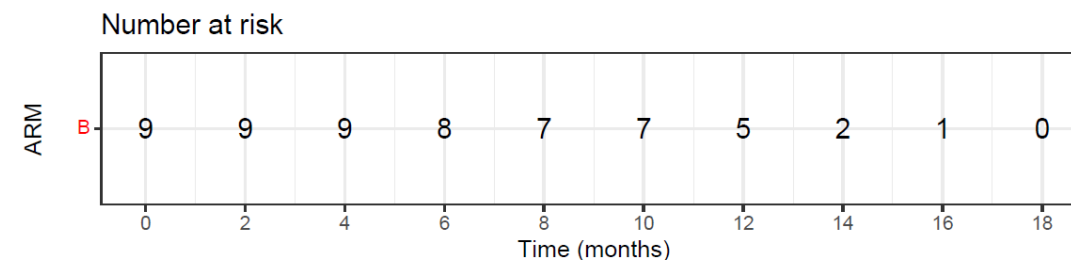
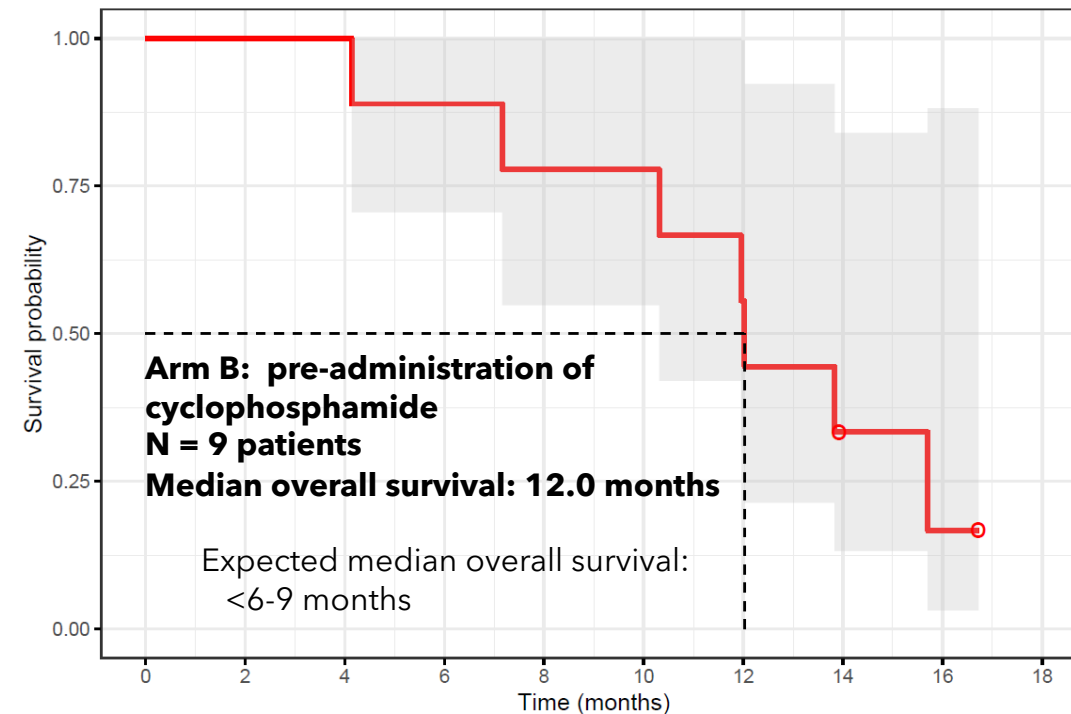


61 YOF, IDH wild-type, MGMT methylated glioblastoma, right temporal lesion initially treated with surgery, chemoradiation and temozolomide
CAN-3110 dose: 10^8 PFUs. Patient passed away as passenger in a motor vehicle accident on day 717.

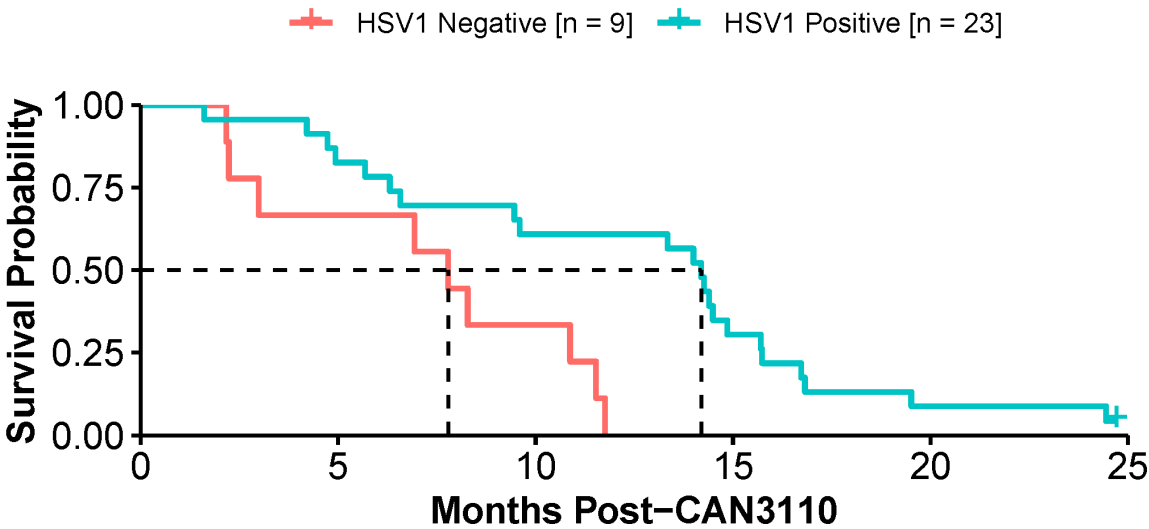
Encouraging overall survival in recurrent high-grade glioma after single injection of CAN-3110



- 41 unique patients were dosed; one patient was treated twice, in cohort IX and X
- A total of 50 unique patients

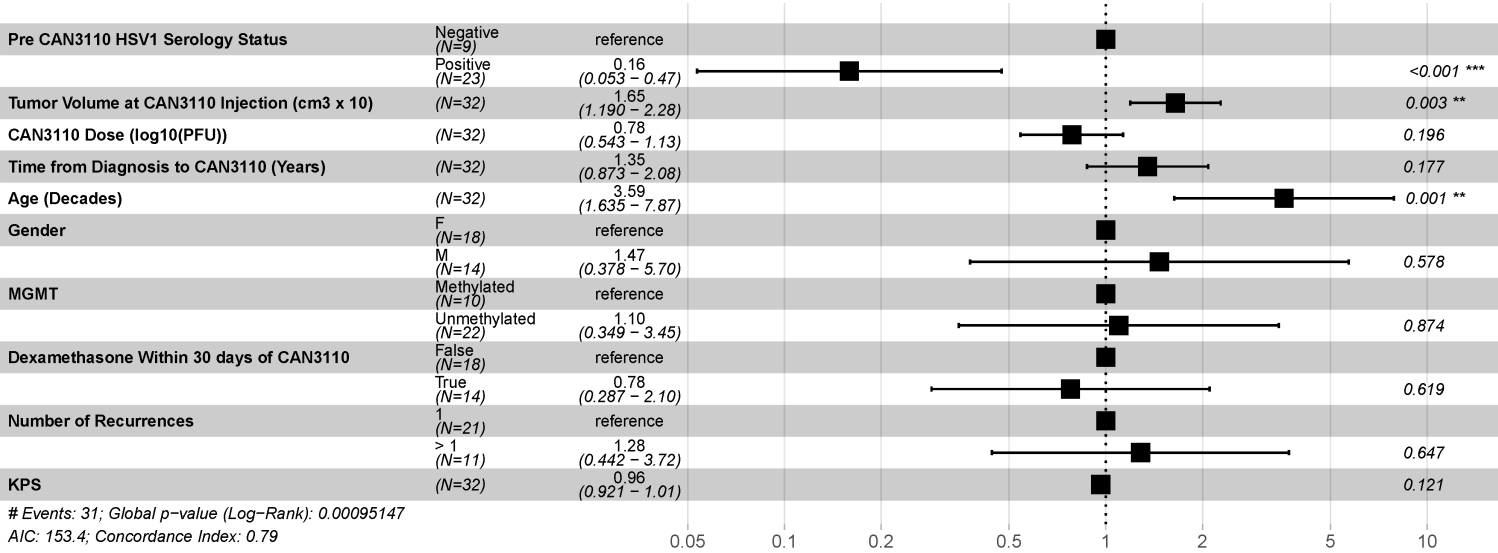


Prolonged survival after CAN-3110 treatment is associated with HSV1 seropositivity

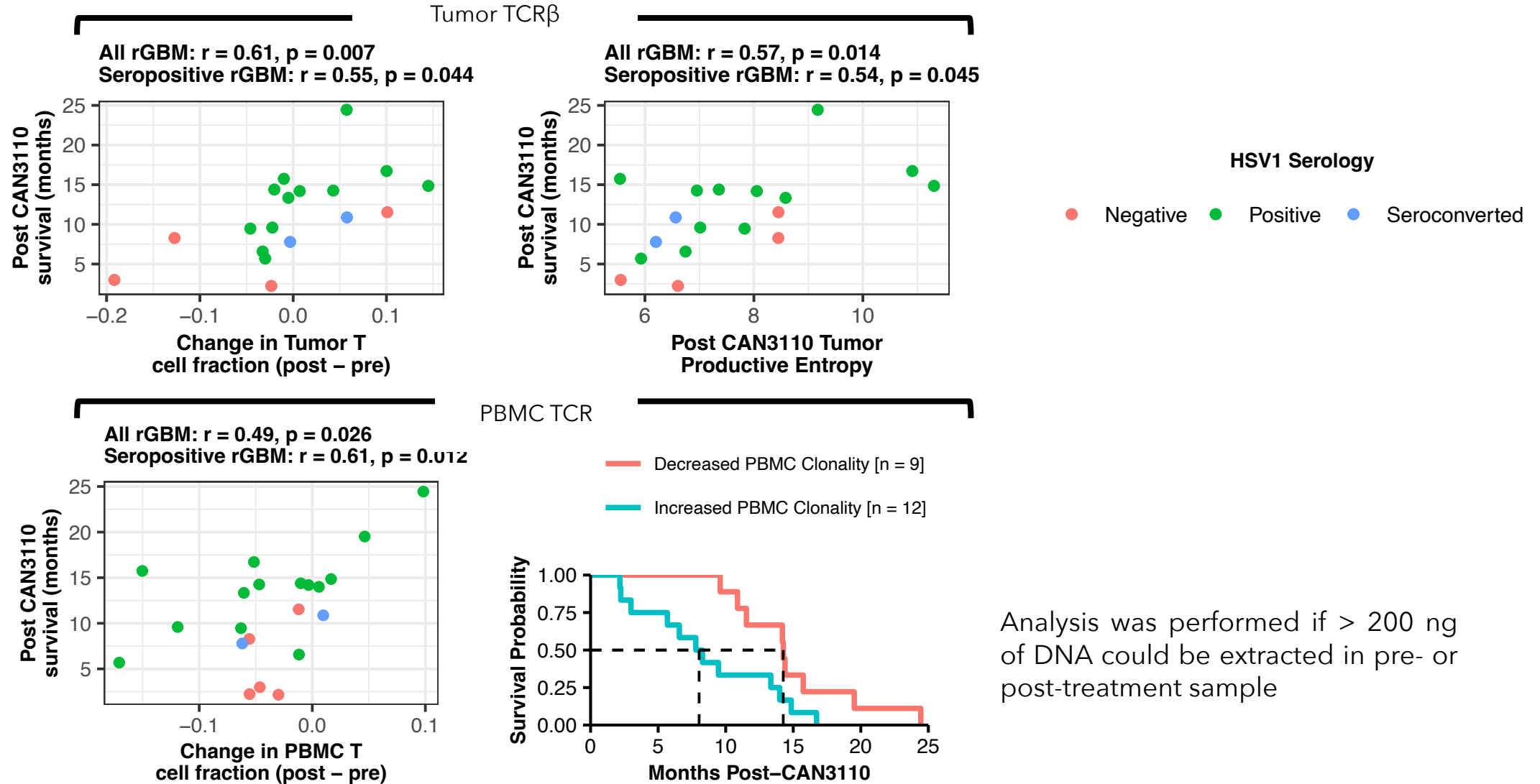


HSV2 serology status is not associated with survival

COxPH Hazard Ratios



Changes in T cell fractions and TCR β diversity correlate with survival after CAN-3110 treatment





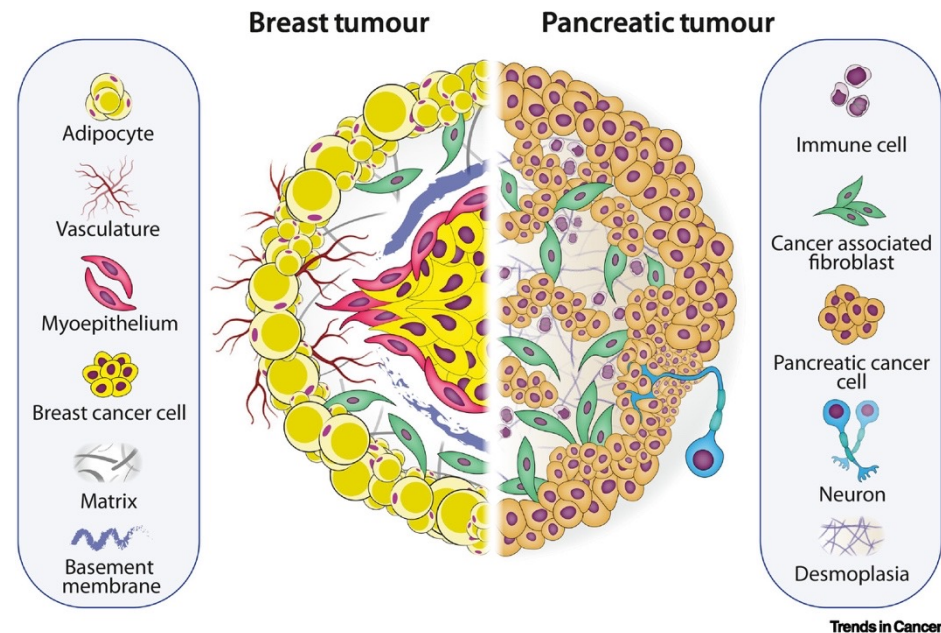
enLIGHTEN™ Discovery Platform



A systematic, iterative HSV-based discovery platform leveraging human biology and advanced analytics

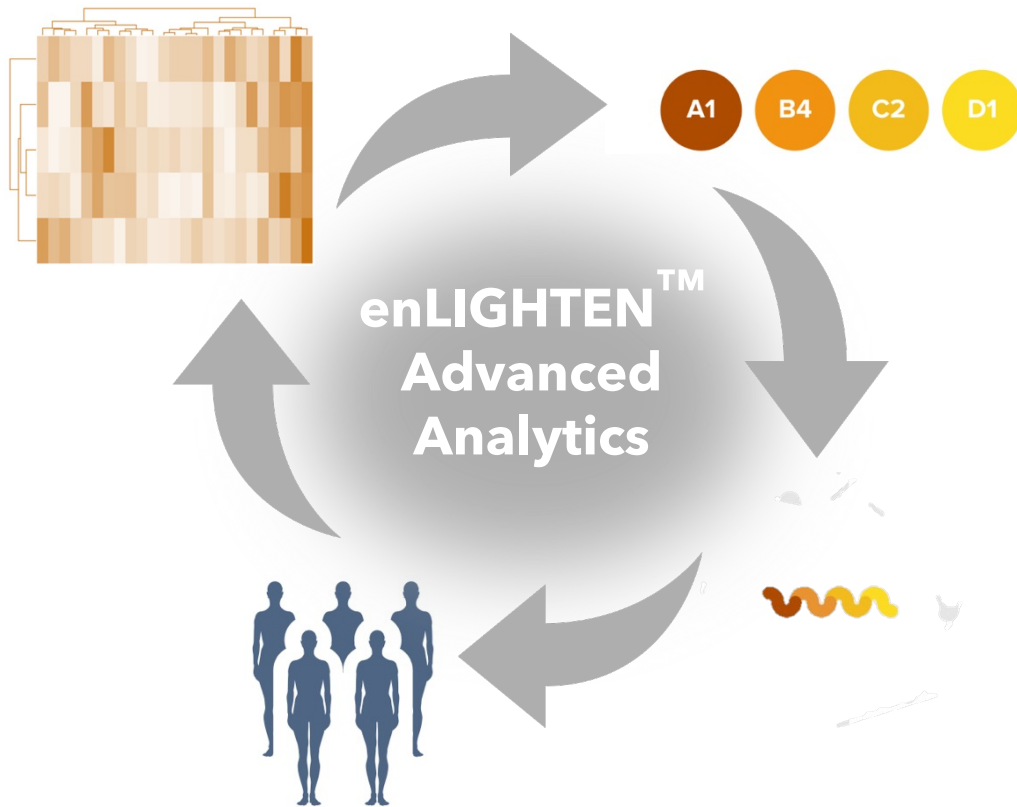
Breaking down the barriers to cancer immunotherapy

Immunotherapy treatment failure arises from heterogeneous mechanisms present in diverse tumor microenvironments (TME) that are inadequately addressed by single-target therapies



Candel's multimodal approach: viral immunotherapies designed to target the heterogeneous mechanisms in the TME and overcome immunotherapy resistance

enLIGHTEN™: Viral immunotherapy by design



- Strong focus on human biology to increase probability of success
- Data-driven approach using advanced analytics to de-risk multimodal payload design
- Suite of proprietary, engineered HSV-1 vectors to enable fast translation to clinic
- Rapid and iterative approach
- Flexibility to design assets for monotherapy or combination therapy

Example of enLIGHTEN™ Discovery Platform use: Partnership with UPenn to enhance efficacy of CAR-T cells in solid tumors

Evaluation of combination immunotherapy using tailored HSV-1 based viruses to deliver payloads that could enhance the activity of CAR-T cells

Features of Successful Drug Development*	Challenge for CAR-T Cells in Solid Tumors	Solution via HSV-1-Based OV
Exposure at the site of action	Insufficient CAR-T ingress	Features of the vector itself plus encoded factors turn cold tumors hot
Target binding / engagement	Antigenic heterogeneity	Expose TAAs via oncolysis
		Encode factors to engage CAR-T cells
Expression of pharmacological activity	Suppressive TME	Encode cytokines to stimulate and activate CAR-T cells
		Encode inhibitors of key suppressive factors

Key achievements and future milestones

1st patient dosed, NSCLC
phase 2, CAN-2409

Full enrollment, prostate cancer
phase 3, CAN-2409

Blinded safety data prostate cancer
phase 2, CAN-2409

Patient reported tolerability, prostate cancer
phase 3, CAN-2409

2022

Clinical data, recurrent HGG
phase 1, CAN-3110

Clinical data, HGG
phase 1, CAN-2409 + Opdivo

Clinical data, NSCLC
phase 2, CAN-2409

2023

Clinical data, recurrent HGG
phase 1, CAN-3110

Additional activity data, NSCLC
phase 2, CAN-2409

Nature Publication,
phase 1, CAN-3110

Initial activity data, pancreatic cancer
phase 2, CAN-2409

2024

Topline readout OS data, NSCLC
phase 2, CAN-2409

Topline readout, active surveillance prostate cancer
phase 2, CAN-2409

Topline readout, intermediate/high risk prostate cancer
phase 3, CAN-2409

Clinical data, recurrent HGG
phase 1 (Arm C), CAN-3110

Candel at a glance

Industry leader in the development of viral immunotherapies for patients living with cancer



- CAN-2409: Off-the-Shelf Therapy, Individualized Cancer Response
 - Engineered, replication-defective adenoviral gene construct encoding herpes simplex virus (HSV)-thymidine kinase
 - “Pipeline in a product” strategy advancing multiple programs in several large indications
 - Established proof of mechanism in patients in each indication currently under evaluation
 - Numerous upcoming catalysts: topline phase 2 OS data in NSCLC (Q2 2024); topline phase 2b (Active Surveillance) and phase 3 (Intermediate/High Risk) Prostate Cancer clinical data (Q4 2024)



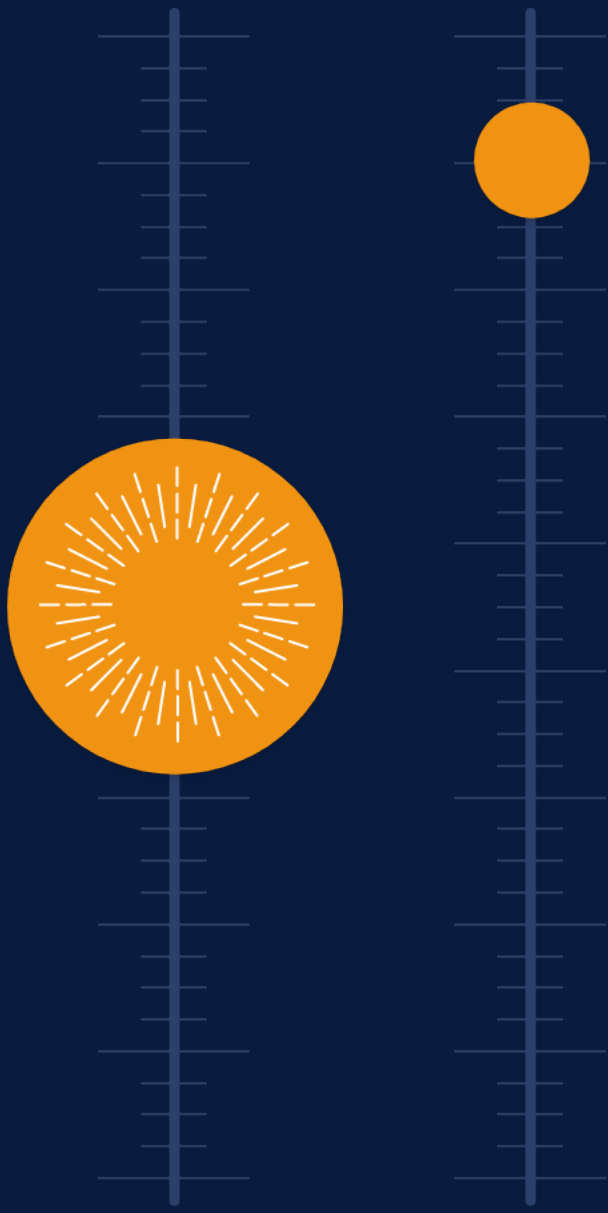
- CAN-3110: Oncolytic Virus with Tumor-Specificity
 - Engineered, replication-competent HSV designed for tumor-specificity
 - Encouraging survival data recently announced during May 2023 ASGCT conference from phase 1 Recurrent High-Grade Glioma clinical trial
 - Publication in *Nature*
 - Opportunity for creation of “pipeline in a product” by expansion into indications beyond brain cancers
 - Clinical and immunological biomarker data on Arm C, evaluating repeat dosing regimen of CAN-3110 (2H 2024)



- enLIGHTEN™ Discovery Platform Based on Advanced Analytics and HSV Technology
 - Validating partnership with UPenn Center for Cellular Immunotherapies focused on combination with CAR-Ts in solid tumors



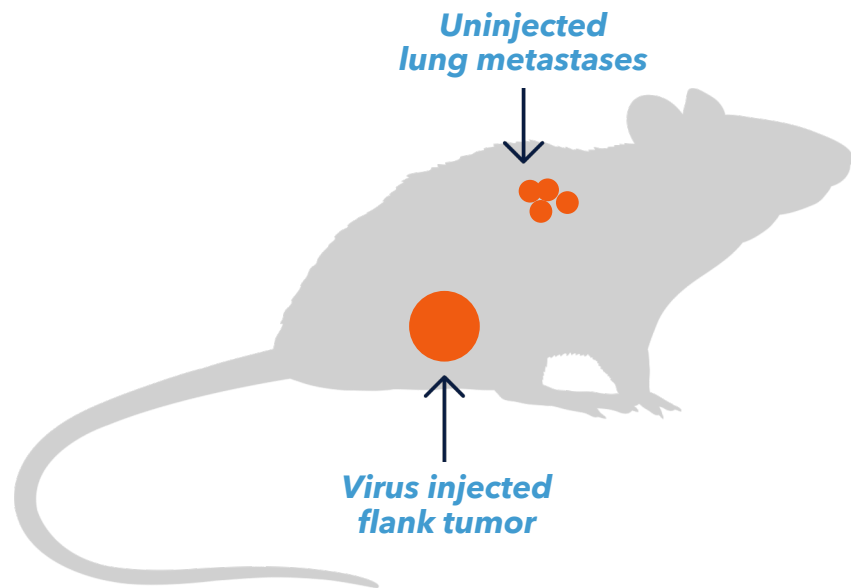
- Corporate Highlights
 - Very experienced Executive Team and strong scientific support from high-profile Research Advisory Board
 - Cash and cash equivalents of \$51.9M as of June 30, 2023; expected runway into Q2 2024
 - IP protection: CAN-2409 (2034, method of use); CAN-3110 (2036, composition of matter); 12 years data exclusivity
 - Low-cost manufacturing



Additional slides



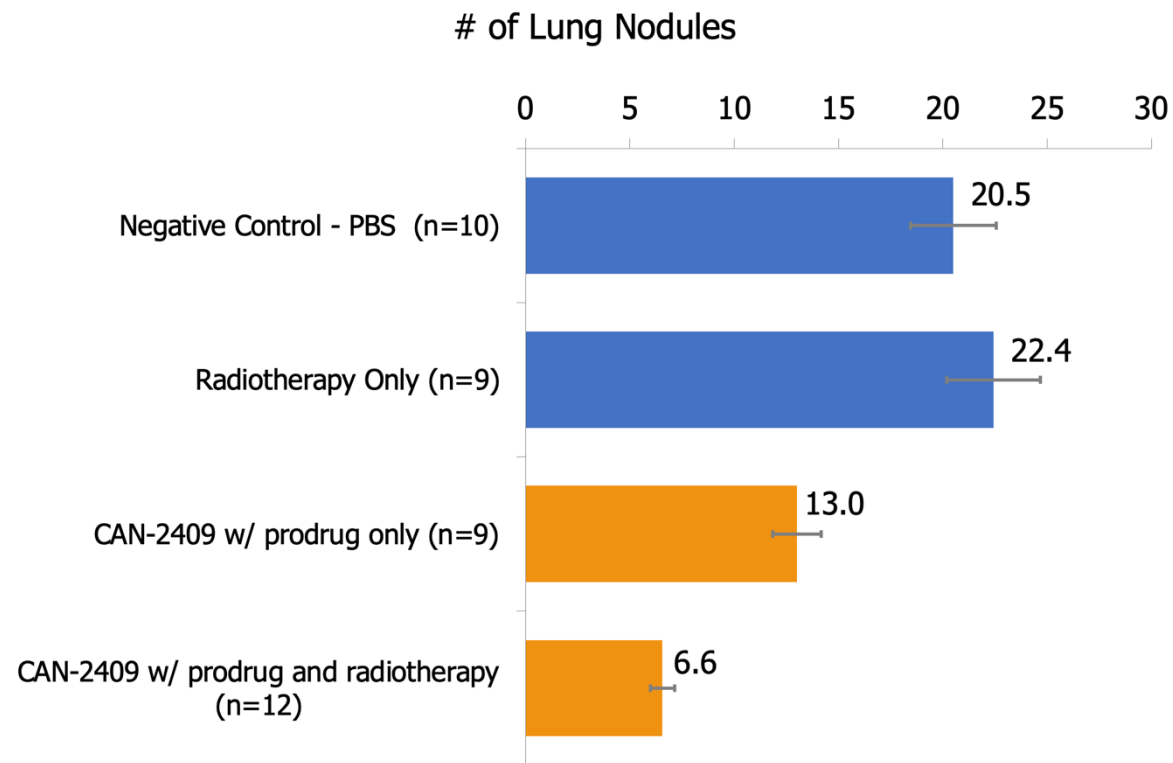
CAN-2409 treatment teaches the immune system how to fight cancer in injected tumor and uninjected metastases



Mice receive one of four treatment regimens

1. PBS
2. Radiotherapy
3. CAN-2409 with prodrug
4. CAN-2409 with prodrug plus radiotherapy

Decrease in uninjected lung metastases

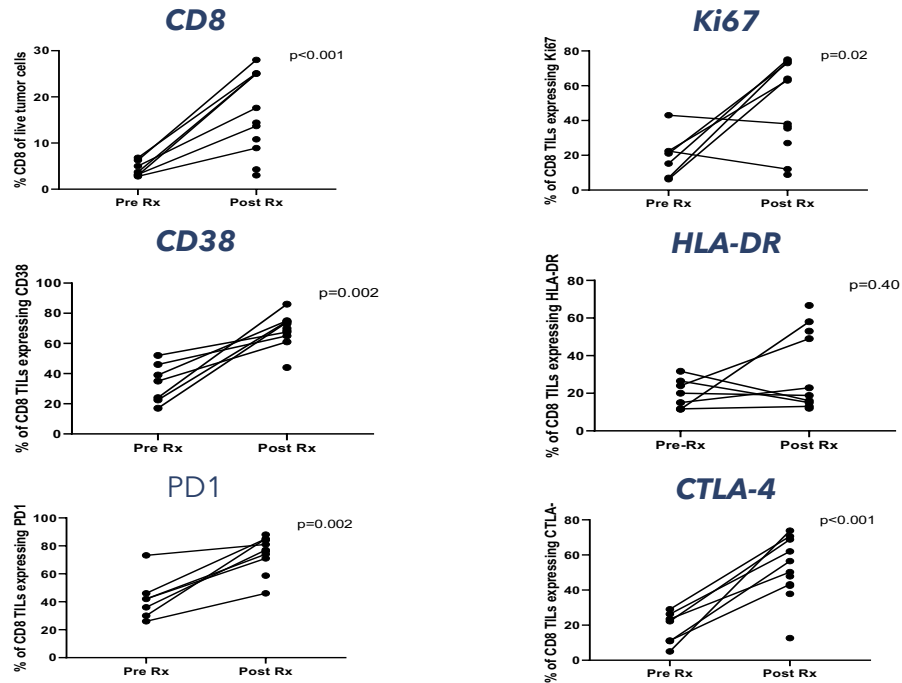


Model of prostate cancer: RM-1 cells in C57BL/6 mice

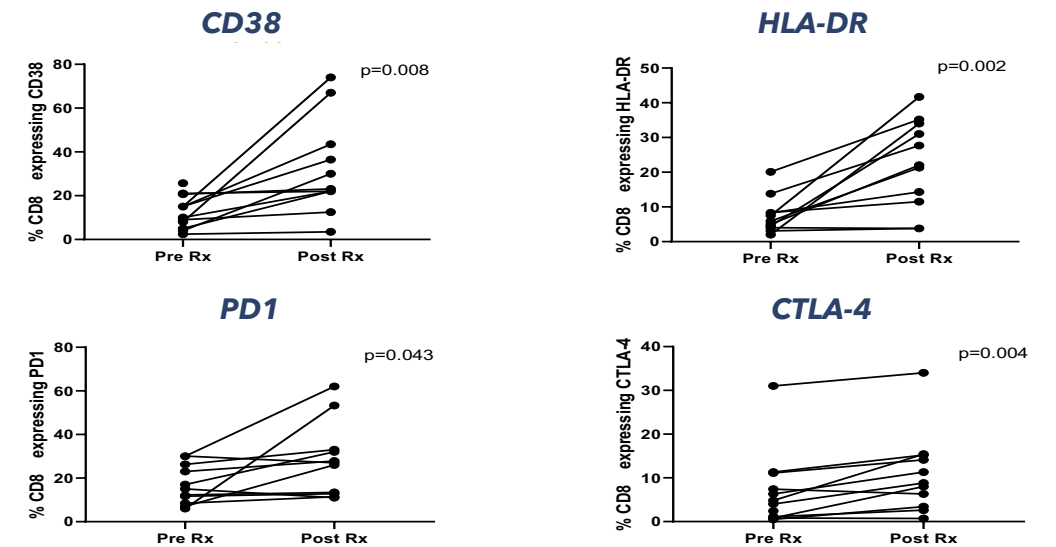
CAN-2409 Treatment stimulates local and systemic CD8+ T-cell response in patients with cancer

Non-small cell lung cancer phase 1 clinical trial proof of mechanism (n=12)

TISSUE



PERIPHERAL BLOOD



Clinical evidence supports ongoing phase 2 clinical trial of CAN-2409 in NSCLC

Monotherapy activity of CAN-2409 in NSCLC

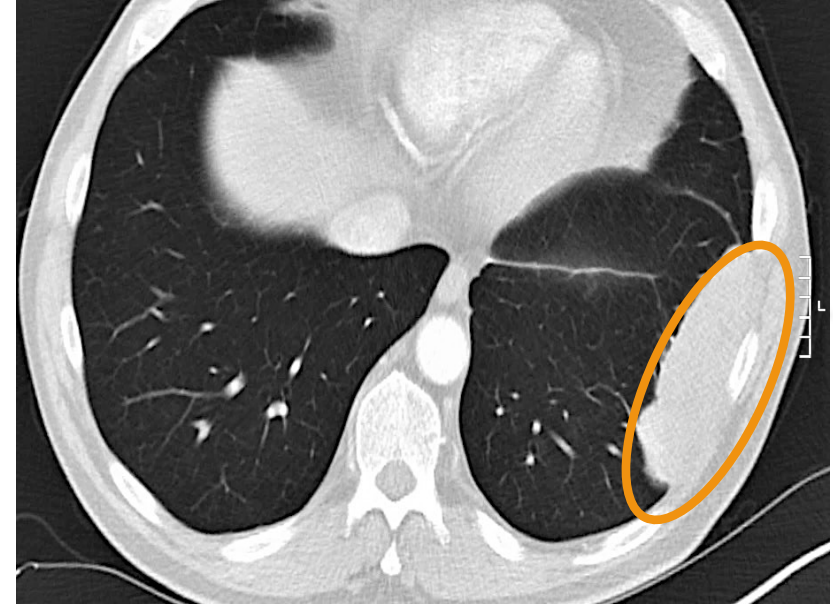
70 yr old male with a 14.8 cm stage IIIA sarcomatoid carcinoma



Day 0

Tumor Dimensions: 148 x 40 x 82 mm

1x10¹² vp dose



Day 22

Tumor Dimensions: 100 x 34 x 75 mm

Nearly 50% decrease in tumor volume* in 3 weeks

* p/6 x L x W x H