



AlphaTau

(NASDAQ:DRTS)

# Investor Presentation

January 2026

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# Alpha Tau Overview

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## AlphaDaRT

A novel approach using localized alpha particle radiotherapy designed to precisely destroy solid tumors while sparing surrounding healthy tissue



### Alpha DaRT Advantages

- ✓ Short-range radiation supporting safety + efficacy
- ✓ Broad potential applicability for local tumor control
- ✓ Signs of compelling immuno-stimulatory activity
- ✓ Potential to be utilized alone or synergistically with other cancer treatment modalities

### Increasing Corporate Momentum

- 🚀 Multiple upcoming milestones in next 6 - 12 months
- 🤝 Supportive dialogue with FDA and other regulators
- 🕒 Massive potential TAM (10k's) in each indication
- 🏗️ Expanding global manufacturing network
- 🔒 > 150 patents issued, > 200 applications pending
- 💰 Well financed to execute on current goals

# Anticipated Milestones

| Geography     | Target Indication       | H1 2026                                   | H2 2026                                   |
|---------------|-------------------------|---|---|
| United States | Recurrent Cutaneous SCC | Complete multi-center pivotal recruitment | Data Readout + Potential FDA submission   |
|               | Pancreatic Cancer       | Complete Recruitment in Pilot Study       | Initial Readout from Pilot Study          |
|               | Recurrent GBM           |   | Complete Recruitment in Feasibility Study |
| Japan         | Head & Neck Cancer      | PMDA Response                             |   |

Clinical

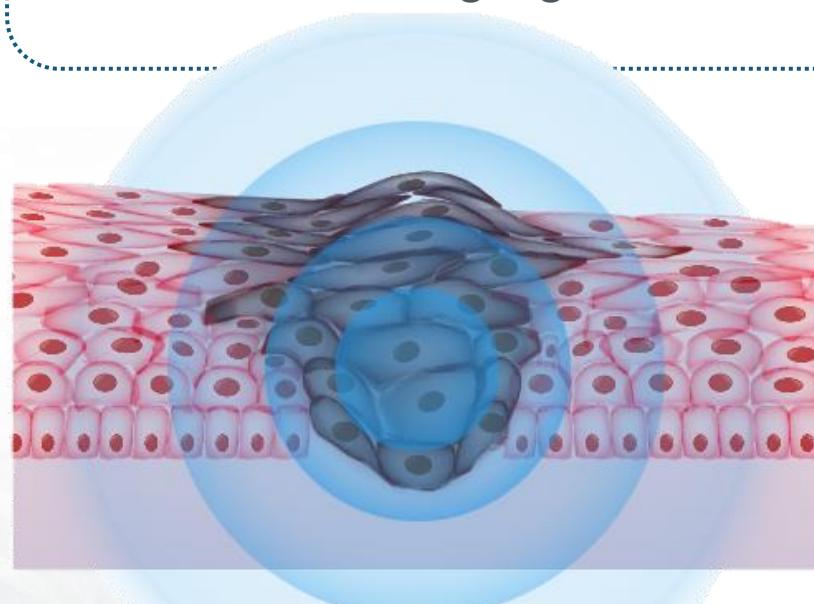
Regulatory

# Alpha Radiation is Focal - Short Range Limits Clinical Use

Whereas beta and gamma radiation can penetrate tissue with sufficient range to facilitate tumor coverage (while risking damage to healthy tissue), alpha radiation has short range in tissue ( $< 100 \mu\text{m}$ ), which limits its clinical usefulness in local delivery

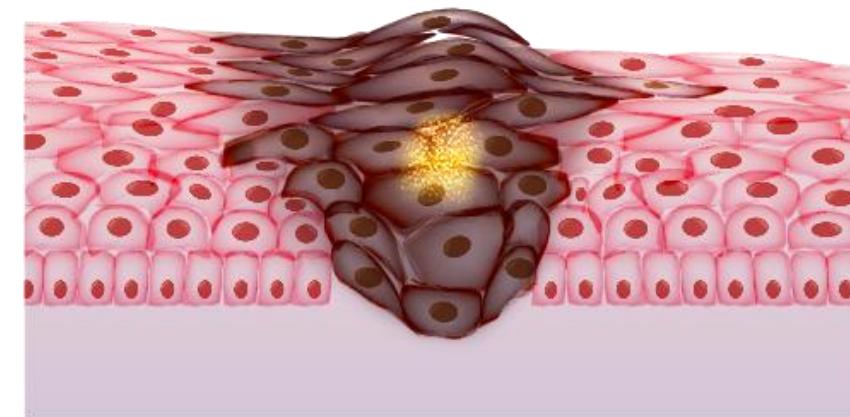
## Beta/Gamma Radiation

Long therapeutic range with risk to surrounding organs



## Alpha Radiation

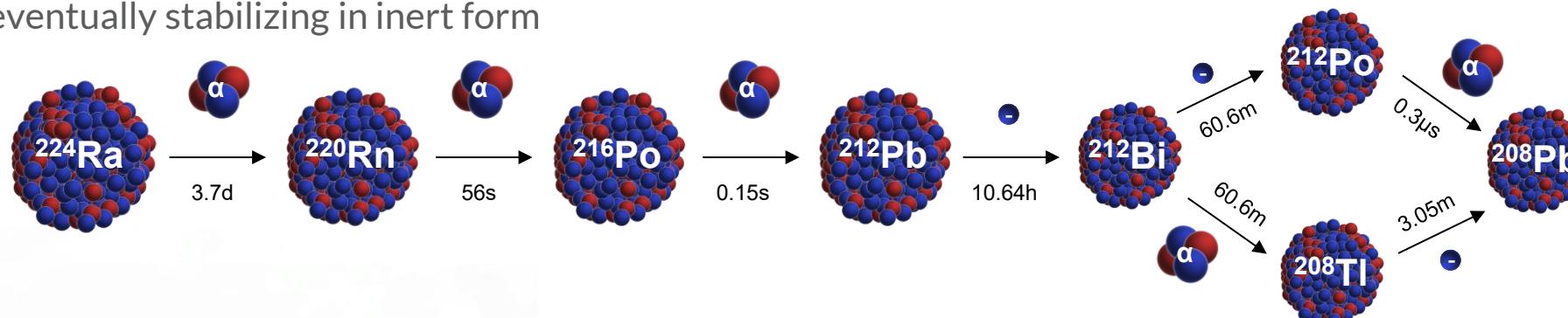
Short range in tissue limits damage to surrounding organs but also limits coverage



# Alpha DaRT Technology is Designed to Overcome These Limitations

## <sup>224</sup>Ra Decay Chain

- 🎯 Alpha DaRT leverages the innate decay chain of Radium-224
- 🎯 The decay chain of Radium-224 includes four alpha particles
- 🎯 Radium-224 has a half-life of ~3.7 days, while the remaining decay chain has a total half-life of approximately 12 hours, before eventually stabilizing in inert form



## Alpha DaRT

- 🎯 The Alpha DaRT utilizes stainless steel or titanium sources that are impregnated with Radium-224
- 🎯 When the Alpha DaRT source is injected into the tumor, the radium remains attached to the source while its daughter atoms detach, emitting cytotoxic alpha particle payloads as they move deeper into the tumor until eventually stabilizing

Alpha DaRT is designed to overcome the range limitations of alpha particles through precise release of alpha emitters into the tumor, generating a potent and tight distribution of alpha radiation

# Alpha DaRT - Diffusing Alpha-emitters Radiation Therapy

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<https://www.youtube.com/watch?v=nwfzJHm0fTQ>

# Therapeutic Focus

We are focused on delivering solutions to three markets that we believe would be best served by the unique characteristics of the Alpha DaRT

## Localized & Unresectable

- Localized tumors that are not surgical candidates and tumors that recur after surgery and are **resistant to other** therapies, specifically radiotherapy
- Alpha DaRT to be evaluated as **a later line therapy**
- Tumor types we are targeting include **SCC, H&N SCC and prostate**



## Metastatic

- Alpha DaRT being evaluated for its potential to induce an **immune response** in **metastatic** tumors
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## High Unmet Need

- Solid tumors that have **limited treatment options** with limited standard of care offering
- Alpha DaRT could potentially target **broad patient populations**
- Tumor types we are targeting include **GBM and pancreatic cancer**



# Initial Foray into Superficial Tumors

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Alpha DaRT first tested in superficial tumors – tumors of the skin or head & neck, due to:

- ✓ Ease of access
- ✓ Straightforward control
- ✓ Ongoing monitoring
- ✓ Strong initial preclinical data in Squamous Cell Carcinoma (SCC)

Treatment of hundreds of tumors to date:

- Indicated a mild safety profile
- Generated marketing authorization in Israel to treat SCC of the skin or oral cavity
- Allowed us to submit to PMDA in Japan for marketing authorization to treat recurrent head & neck cancer

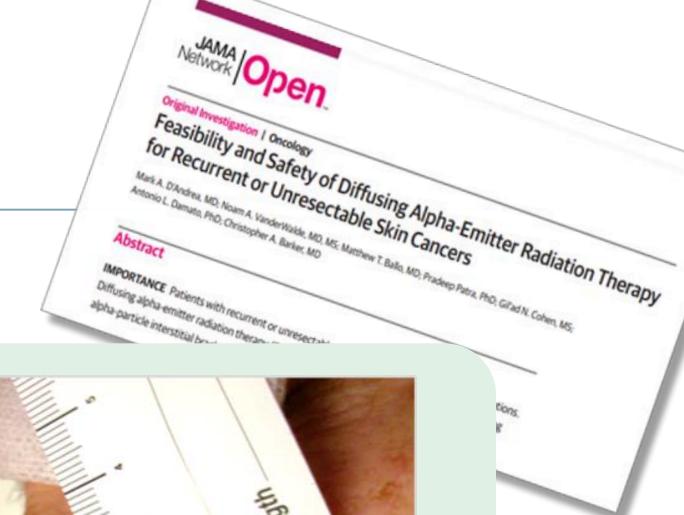
Pivotal trial (“ReSTART”) underway in the U.S. for recurrent cutaneous SCC

# U.S. Skin Cancer Pilot Study Leading to Pivotal Study

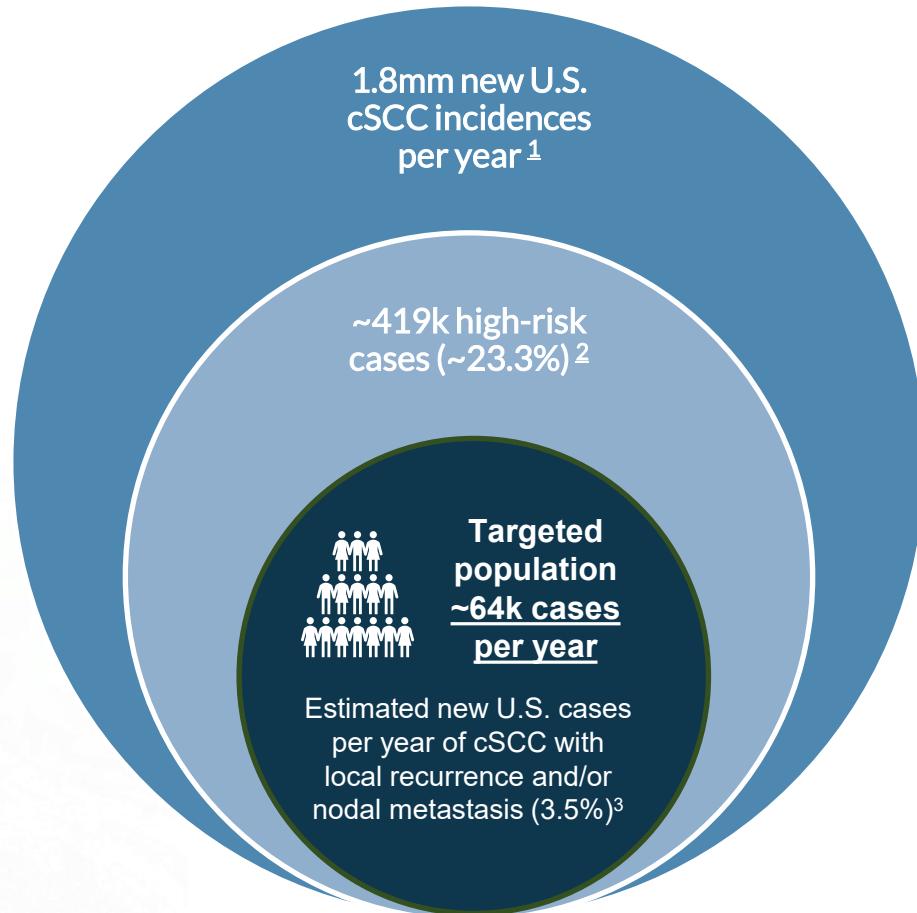
| U.S. Pilot Feasibility Study   |  |
|--|--|
| Locations  | 5 centers – led by Memorial Sloan Kettering Cancer Center                                      |
| # of Patients Treated  | 10   |
|  Adverse Events | <b>22 reported AE's, most were mild or moderate</b><br><b>No treatment-related serious AEs</b> |
|  Response Rate  | <b>100% Complete Response Rate</b>   |



| Multicenter Pivotal Recurrent SCC Study |   |
|---|---|
| Locations                               | Multiple centers, including UCLA, Emory University, Mayo Clinic, etc.                 |
| # of Patients                           | 86  |
| Primary Objectives                      | Objective Response Rate, Durability of Response @ 6 months, adverse events assessment |
| Targeted Completion of Recruitment      | Q1 2026   |



# Potential cSCC Patient Breakdown - Estimated U.S. Incidence



<sup>1</sup> <https://www.skincancer.org/blog/our-new-approach-to-a-challenging-skin-cancer-statistic/>

<sup>2</sup> *Evaluation of American Joint Committee on Cancer, International Union Against Cancer, and Brigham and Women's Hospital Tumor Staging for Cutaneous Squamous Cell Carcinoma*  
Pritesh S. Karia, Anokhi Jambusaria-Pahlajani, David P. Harrington, George F. Murphy, Abrar A. Qureshi, and Chrysalyne D. Schmuls. *Journal of Clinical Oncology* 2014 32:4, 327-334

<sup>3</sup> *Factors Predictive of Recurrence and Death From Cutaneous Squamous Cell Carcinoma: A 10-Year, Single-Institution Cohort Study*

Schmuls CD, Karia PS, Carter JB, Han J, Qureshi AA. *JAMA Dermatol.* 2013;149(5):541–547. doi:10.1001/jamadermatol.2013.2139

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# Case Study: Potential Systemic Immune Effect Observed in One cSCC Patient Where a Second, Untreated Lesion Manifested CR



Complete Response + Potential Systemic Immune Effect

## Treated Tumor

Before



After



## Untreated Tumors

Before



After



# Outline of Checkpoint Inhibitor Combination Trial – CTP-HNCPI-00

## Key Eligibility Criteria



Recurrent unresectable or metastatic head and neck squamous cell carcinoma (like KEYNOTE-048)

No previous treatment for metastatic disease

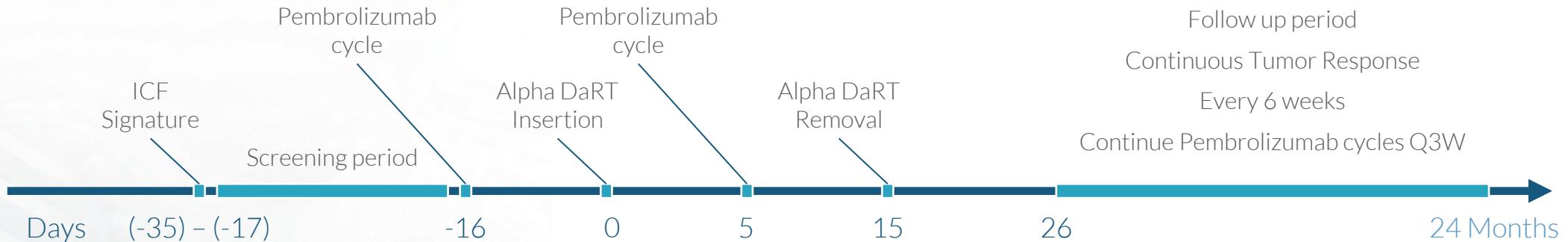


## Benchmark Comparator

KEYNOTE-048: Benchmark comparator data for 1L Pembrolizumab in patients with recurrent or metastatic HNSCC<sup>1</sup>

| Population          | Benchmark Regimen   | Systemic ORR | Systemic CR % |
|---------------------|---------------------|--------------|---------------|
| PD-L1 CPS $\geq$ 20 | Pembrolizumab Alone | 23%          | 8%            |
| PD-L1 CPS $\geq$ 1  | Pembrolizumab Alone | 19%          | 5%            |
| Total population    | Pembrolizumab Alone | 17%          | 5%            |

## Treatment Regimen



<sup>1</sup>Benchmark data provided for illustrative purposes only. Not a head-to-head trial

Source: Burtness, B. et al (2019). Pembrolizumab alone or with chemotherapy versus cetuximab with chemotherapy for recurrent or metastatic squamous cell carcinoma of the head and neck (KEYNOTE-048): a randomised, open-label, phase 3 study. *The Lancet*. doi:10.1016/s0140-6736(19)32591-7

# Early Interim Data Show Strong Systemic Responses

- As of January 9, 2025, eight patients were treated with Alpha DaRT and pembrolizumab in the study
- Baseline characteristics:
  - 3 female/5 male
  - Mean age of 73 years (range 61-96)
  - 6mHNSCC /2IaHNSCC
- Patients received an average of 4 cycles of pembrolizumab (range 2-9)
- Systemic responses observed:
  - Three complete responses
  - Three partial responses
  - Two patients died prior to evaluation
- Only two Alpha DaRT-related adverse events, both were Grade 1 (mild)

**37.5%**  
Systemic Complete Responses

**75%**  
Systemic Objective  
Response Rate  
(CR + PR)

No Related SAEs

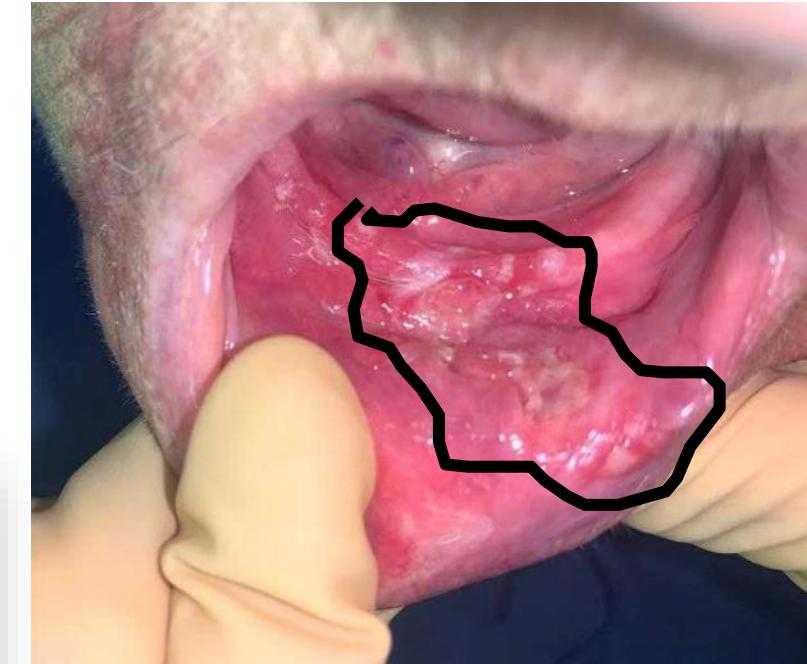
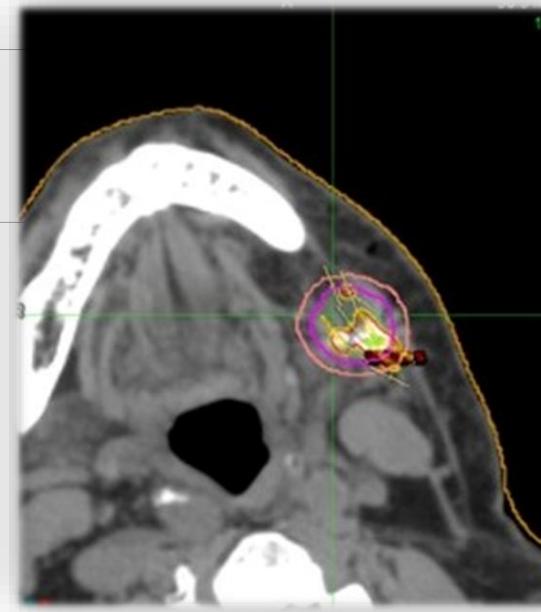
HNCP1-00-01-003

Confidential

## Pembrolizumab Combination Case Study

# Case Background – HNCPI-00-01-003

|                         |   |
|-------------------------|---|
| Age                     | 96  |
| Sex                     | Female  |
| Tumor Type              | SCC   |
| Date of First Diagnosis | Jul-2022  |
| Location                | Alveolar ridge & lip plus dermal involvement  |
| Prior Treatments        | None  |
| Medical Background      | <ul style="list-style-type: none"><li>• Cardio</li><li>• Dementia</li><li>• ECOG3</li></ul> |
| Cancer Stage            | <ul style="list-style-type: none"><li>• Stage IV</li><li>• T2N1M1</li></ul>                 |



# Alpha DaRT Treatment



**Alpha DaRT  
Insertion**  
Sept-2022



**After Alpha DaRT  
Removal**  
Oct-2022



**Follow-Up**  
Jan-2023

## Clinical Follow-Up

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Pre-Treatment



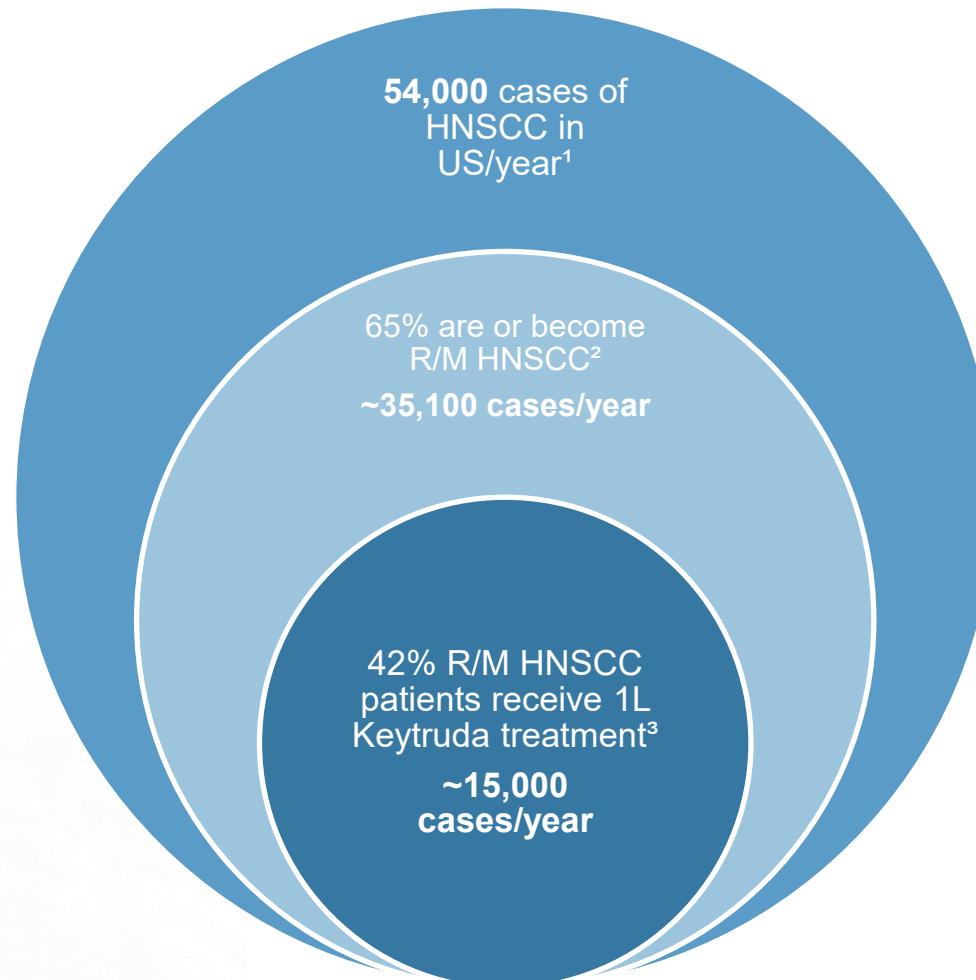
Nine Weeks Post Treatment

# Patient Status

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- ✓ Patient stopped Pembrolizumab after 12 months
- ✓ Patient still alive with no evidence of disease at October 2024 followup

# HNSCC Patient Breakdown



<sup>1</sup>Epidemiology, Risk Factors, and Prevention of Head and Neck Squamous Cell Carcinoma Adam Barsouk, John Sukumar Aluru, Prashanth Rawla, Kalyan Saginala, Alexander Barsouk. *Med. Sci.* 2023, 11(2), 42; <https://doi.org/10.3390/medsci11020042>

<sup>2</sup>Recent Advances and Future Directions in Clinical Management of Head and Neck Squamous Cell Carcinoma Jameel Muzaffar, Shahla Bari, Kedar Kirtane, Christine H. Chung. *Cancers* 2021, 13(2), 338; <https://doi.org/10.3390/cancers13020338>

<sup>3</sup>Real-world treatment patterns and outcomes among individuals receiving first-line pembrolizumab therapy for recurrent/metastatic head and neck squamous cell carcinoma Christopher M Black, Glenn J Hanna, Liya Wang, Karthik Ramakrishnan, Daisuke Goto, Vladimir Turzhitsky, Gleicy M Hair. *Front Oncol.* 2023 May 22;13:1160144. <https://doi.org/10.3389/fonc.2023.1160144>

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# Focus on Internal Organ Treatments

We continue to make progress across internal organ programs, with trials underway in multiple targeted indications and others in various stages of planning and start-up

## Internal Organs in Focus

- Pancreas – clinical trial underway
- Liver – clinical trial underway
- Lung – clinical trial underway
- Prostate – clinical trial underway
- Brain – GBM + Brain Mets
- Breast
- Rectum



# Pancreatic Cancer Interim Data - Highlights of Overall Survival (OS)

## Key Caveats:

- The data are still relatively immature, but ongoing
- Trial designs were focused on feasibility and safety, without the frequent monitoring visits common in studies focused on precise measurement of survival
- Five patients treated since Nov 25, 2024, and three patients who exited the study very shortly after treatment, in all cases with insufficient time to reach objective response measurement, were excluded from OS analysis for lack of data maturity
- Therefore, a total of n = 33 patients are evaluated for OS using Kaplan-Meier analysis

| Population                | OS Since Diagnosis /<br>Initiation of Last<br>Chemotherapy (mo) | OS Since Alpha DaRT<br>Treatment (mo) |
|---------------------------|---|---------------------------------------|
| Overall Population (n=33) | 18.6  | 10.9                                  |

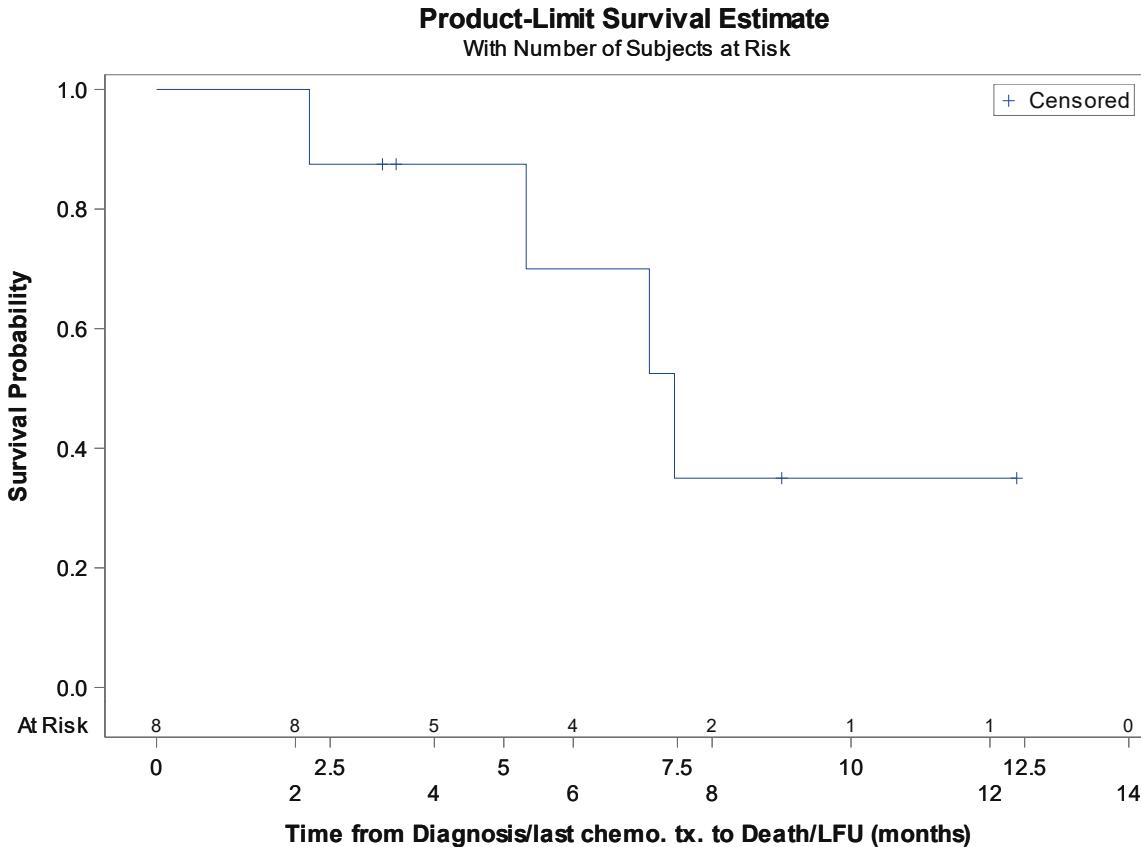
Of n=33 patients analyzed, 13 have died  
The remaining 20 (and the five newer patients) remain alive

In light of the heterogeneity of the population, we conducted ad-hoc analyses of key sub-groups to offer context vs. expected OS for each group

*Note: Results as of January 8, 2025*

# Analysis of Overall Survival in Key Sub-Populations (1/3)

## Newly Diagnosed / Not Eligible for Chemotherapy (n=8)



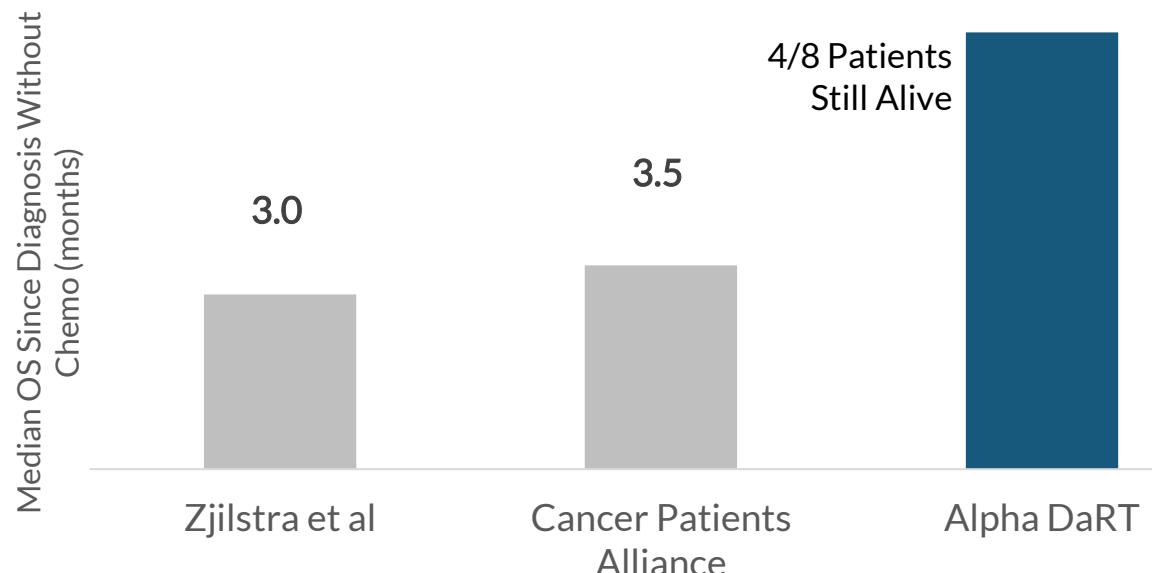
Note: Median follow-up in Alpha DaRT group of 6.3 months

Results as of January 8, 2025

For Illustrative Purposes Only - no head-to-head clinical study has been conducted comparing Alpha DaRT to other products or candidates. Differences exist between trial designs, subject characteristics and other factors, and caution should be exercised when comparing data across unrelated studies

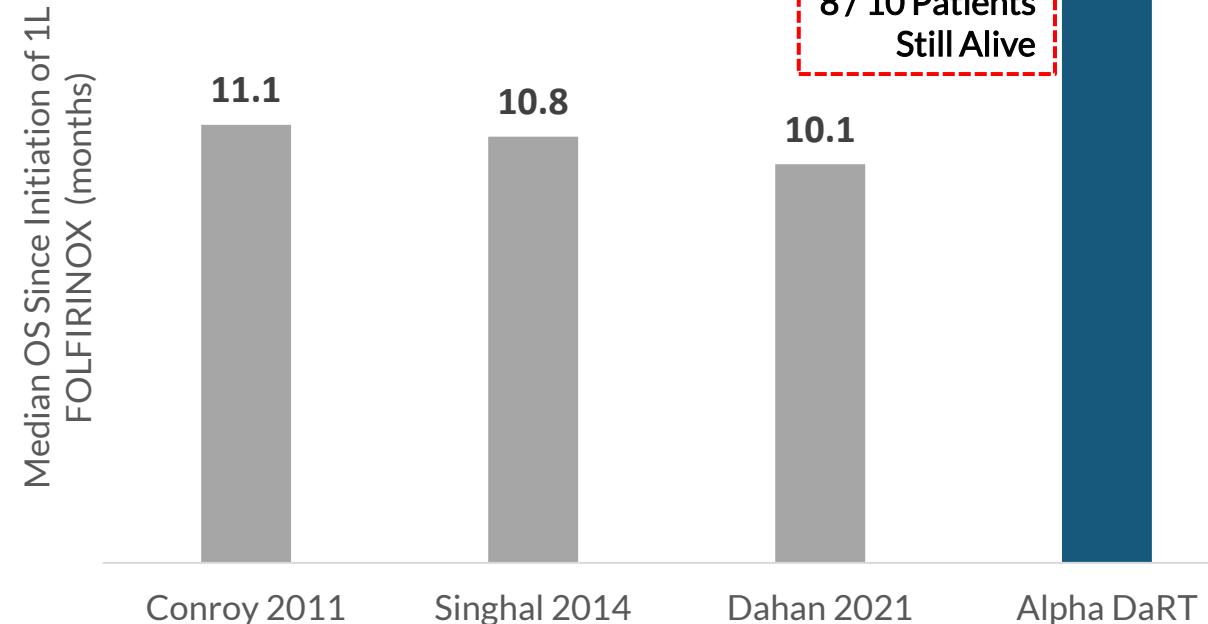
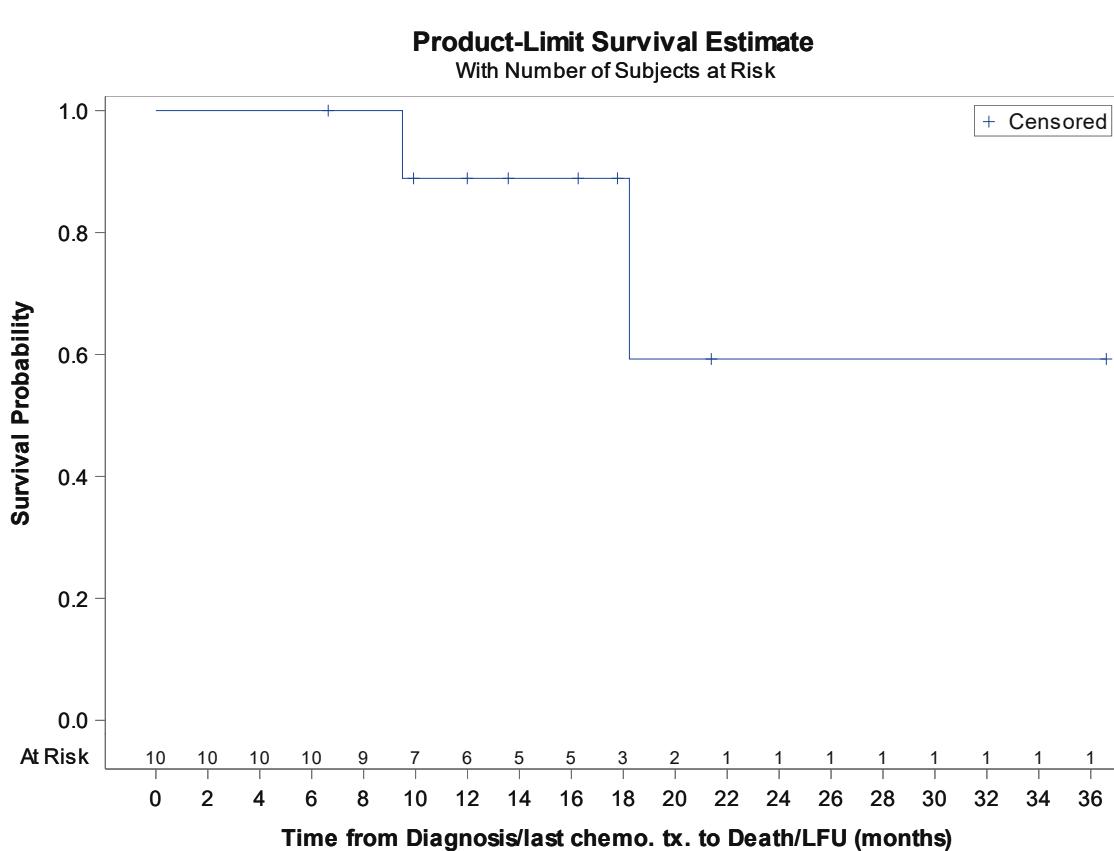
Sources:

Zijlstra, M. et al (2018). Patient characteristics and treatment considerations in pancreatic cancer: a population based study in the Netherlands. <https://doi.org/10.1080/0284186X.2018.1470330>  
<https://pancreatica.org/pancreatic-cancer/pancreatic-cancer-prognosis/>



# Analysis of Overall Survival in Key Sub-Populations (2/3)

## Metastatic (Stage IV) Patients After 1L FOLFIRINOX (n=10)



\* Median Kaplan-Meier estimate was not reached (NR); median follow-up time was 15.1 months

For Illustrative Purposes Only - no head-to-head clinical study has been conducted comparing Alpha DaRT to other products or candidates. Differences exist between trial designs, subject characteristics and other factors, and caution should be exercised when comparing data across unrelated studies

Note: Results as of January 8, 2025

Sources:

Thierry Conroy et al., FOLFIRINOX versus Gemcitabine for Metastatic Pancreatic Cancer. *New England Journal of Medicine* (2011). DOI: 10.1056/NEJMoa1011923

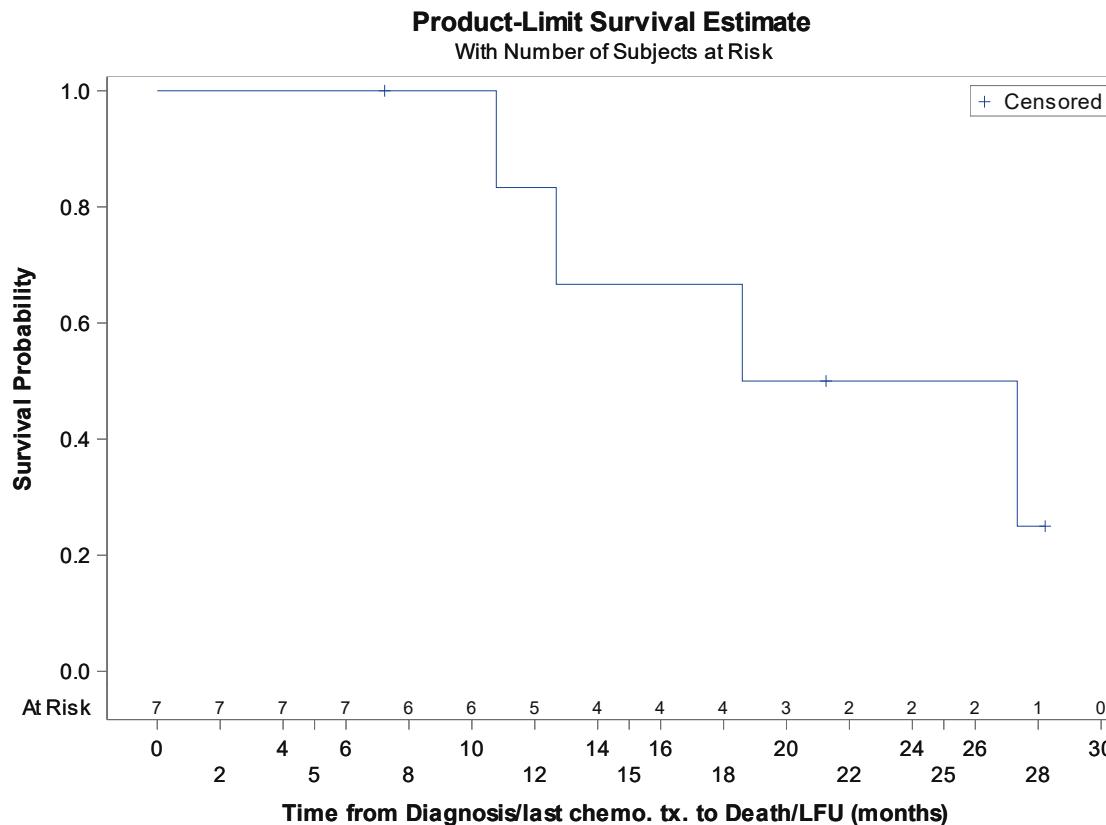
Singhal MK, et al. A phase III trial comparing FOLFIRINOX versus gemcitabine for metastatic pancreatic cancer. *Ann Oncol.* 2014;25(suppl 4):iv210–53.

Laetitia Dahan et al., Randomized Phase II Trial Evaluating Two Sequential Treatments in First Line of Metastatic Pancreatic Cancer:

Results of the PANOPTIMOX-PRODIGE 35 Trial. *JCO* 39, 3242-3250(2021). DOI:10.1200/JCO.20.03329

# Analysis of Overall Survival in Key Sub-Populations (3/3)

## Progressed After 2L Gemcitabine-Abraxane (n=7)



Note: Median follow-up in Alpha DaRT group of 18.9 months

For Illustrative Purposes Only - no head-to-head clinical study has been conducted comparing Alpha DaRT to other products or candidates. Differences exist between trial designs, subject characteristics and other factors, and caution should be exercised when comparing data across unrelated studies

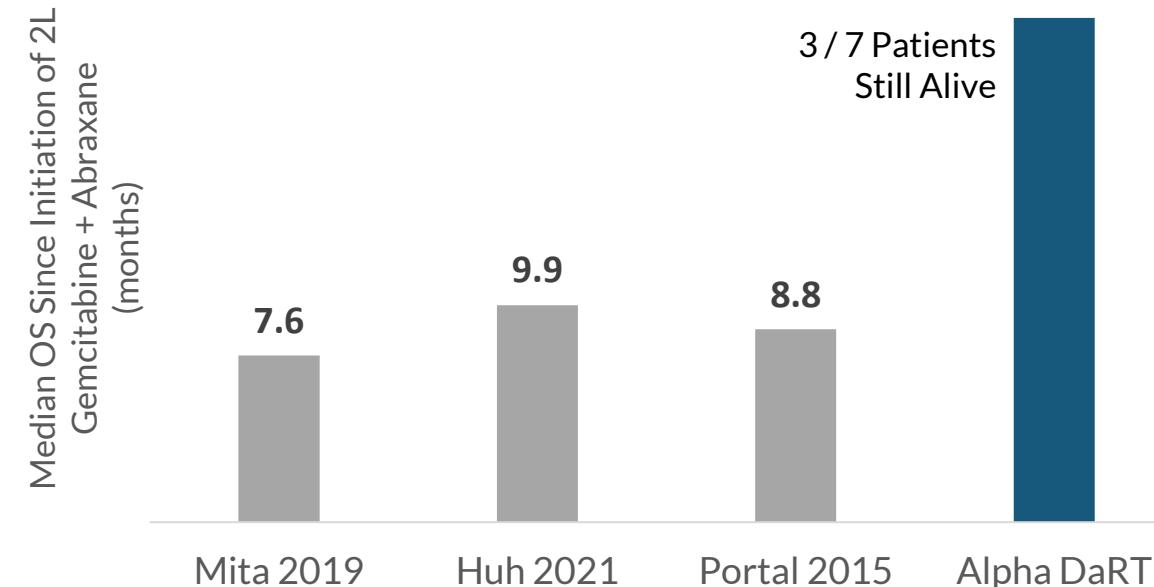
Note: Results as of January 8, 2025

Source:

Mita N, Iwashita T, Uemura S, Yoshida K, Iwasa Y, Ando N, Iwata K, Okuno M, Mukai T, Shimizu M. Second-Line Gemcitabine Plus Nab-Paclitaxel for Patients with Unresectable Advanced Pancreatic Cancer after First-Line FOLFIRINOX Failure. *J Clin Med.* 2019 May 29;8(6):761. doi: 10.3390/jcm8060761. PMID: 31146420; PMCID: PMC6616879

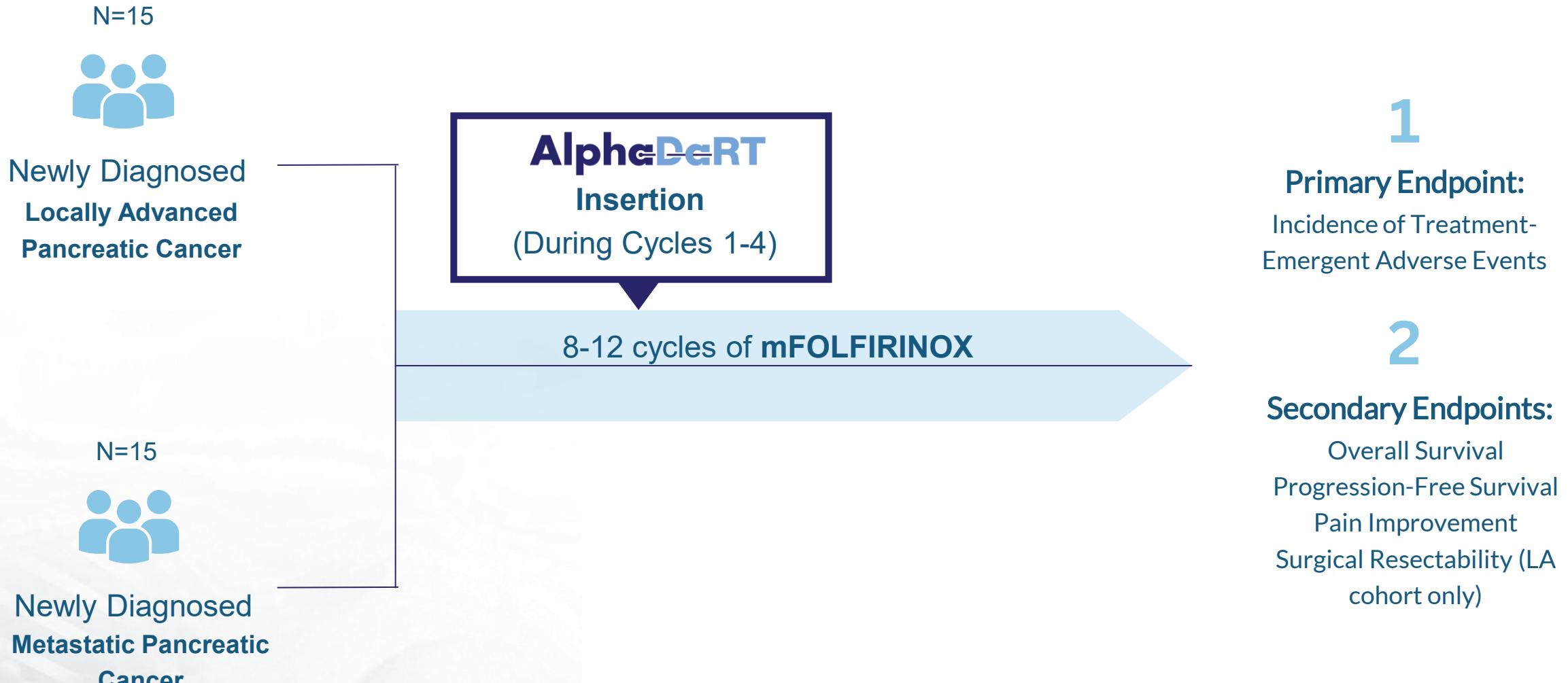
Huh G, Lee HS, Choi JH, Lee SH, Paik WH, Ryu JK, Kim YT, Bang S, Lee ES. Gemcitabine plus Nab-paclitaxel as a second-line treatment following FOLFIRINOX failure in advanced pancreatic cancer: a multicenter, single-arm, open-label, phase 2 trial. *Ther Adv Med Oncol.* 2021 Nov 10;13:17588359211056179. doi: 10.1177/17588359211056179. PMID: 34790261; PMCID: PMC8591648.

Portal A et al. Nab-paclitaxel plus gemcitabine for metastatic pancreatic adenocarcinoma after Folfirinox failure: an AGEO prospective multicentre cohort. *Br J Cancer.* 2015 Sep 29;113(7):989-95. doi: 10.1038/bjc.2015.328. Epub 2015 Sep 15. PMID: 26372701; PMCID: PMC4651133.



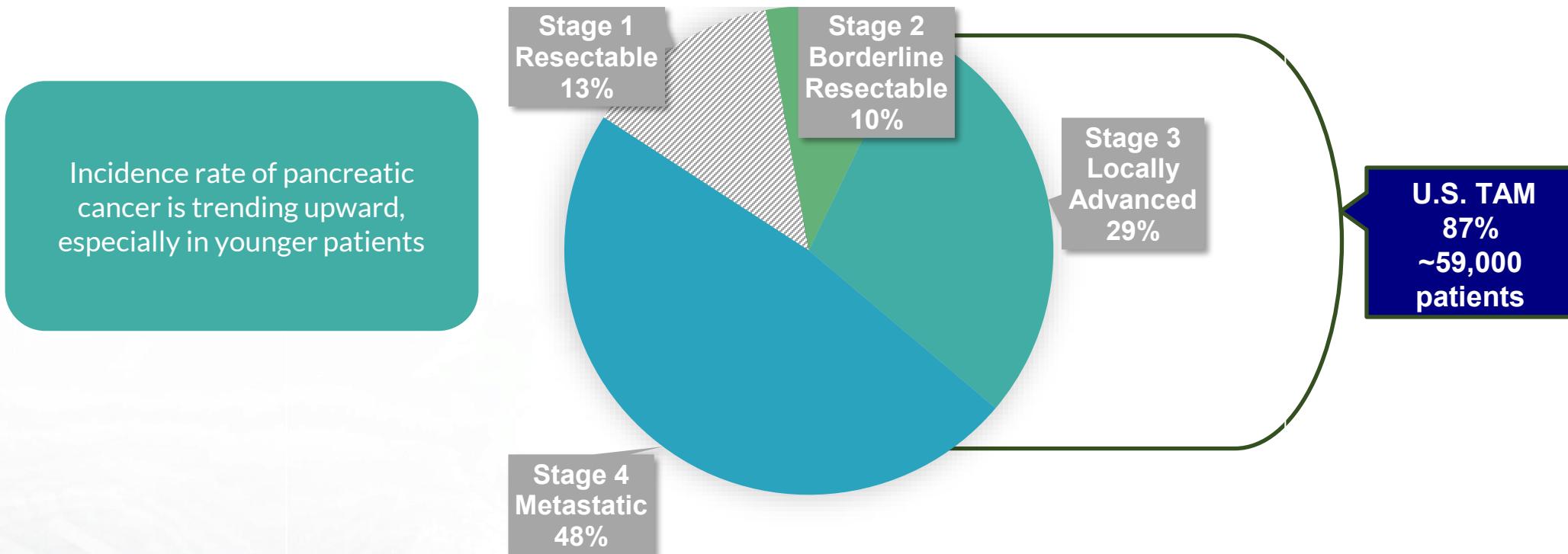
9.0 Months  
Median OS Since  
Alpha DaRT

# Pancreatic Cancer Clinical Trial: FDA Approval of IDE for U.S. Pilot



# Pancreatic Cancer: Massive and Growing Unmet Need

There are over half a million new cases of pancreatic cancer per year. Approx. 66k of them are in the U.S.



At diagnosis, 87% of pancreatic cancer cases are not eligible for surgical resection and/or have metastasized

Note: Excludes cancers of stage "unknown" or "N/A" - data from 1400 Hospitals

Source: <https://www.facs.org/media/ztlhkf/cancer-cases-reported-to-the-ncdb-by-tumor-type-and-ajcc-stage.pdf>

<https://gco.iarc.who.int/media/globocan/factsheets/cancers/13-pancreas-fact-sheet.pdf>

<https://www.cancer.org/cancer/types/pancreatic-cancer/about/key-statistics.html>

<https://www.thelancet.com/journals/langas/article/PIIS2468-1253%2823%2900039-0/fulltext>

# The Next Frontier: Glioblastoma Multiforme (GBM) / Brain Cancers

GBM is one of the most complex, deadly, and treatment-resistant cancers, with an average length of survival estimated at only 8 months<sup>1</sup>. Alpha Tau is currently treating patients in a U.S. pilot study in GBM.



There is a high unmet need for a life extending treatment for GBM, with a mortality rate of 93% after 5 years<sup>1</sup>

~14,500 newly diagnosed cases of GBM/year in the U.S.<sup>1</sup>

~1,000

The 5-year survival rate is only 6.9%<sup>1</sup>

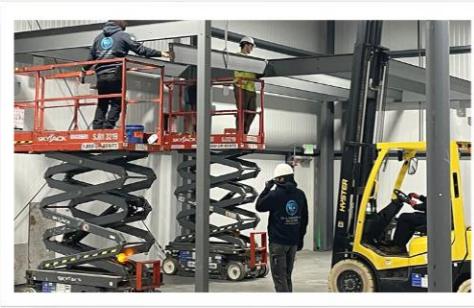
>300k new brain & CNS cancers / year globally<sup>2</sup>

<sup>1</sup><https://braintumor.org/events/glioblastoma-awareness-day/about-glioblastoma/>

<sup>2</sup><https://gco.iarc.who.int/media/globocan/factsheets/cancers/31-brain-central-nervous-system-fact-sheet.pdf>

# Global Manufacturing Facilities

For efficient commercial operations, we look to establish manufacturing operations in multiple regions of the world, to enable relatively short shipping times to our core markets. We are currently building our first commercial-scale facility in Hudson, NH



Hudson, New Hampshire  
(First Phase License Received –  
~400,000 local sources per  
year)



Lawrence, Massachusetts  
(Operational – Producing  
Generators)



Jerusalem  
(Operational ~200,000 local  
sources per year)



Jerusalem  
(In Planning)



Togane, Japan  
(In Planning)

# Anticipated Milestones

| Geography     | Target Indication       | H1 2026                                   | H2 2026                                   |
|---------------|-------------------------|---|---|
| United States | Recurrent Cutaneous SCC | Complete multi-center pivotal recruitment | Data Readout + Potential FDA submission   |
|               | Pancreatic Cancer       | Complete Recruitment in Pilot Study       | Initial Readout from Pilot Study          |
|               | Recurrent GBM           |   | Complete Recruitment in Feasibility Study |
| Japan         | Head & Neck Cancer      | PMDA Response                             |   |

Clinical

Regulatory

# Financial Position

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Public Since Mar-2022 (NASDAQ:DRTS)



\$75.9mm in Cash & Deposits at Q3 2025



Well Financed for Execution



# Alpha~~TAU~~ Saving Lives Globally

