PERSPECTIVE THERAPEUTICS

Corporate Presentation

March 2024

NYSE: CATX

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Investment Highlights

Platform radiopharmaceutical company targeting **pan-cancer opportunities** utilizing 2nd generation α-emitter

Proprietary chelator-based peptide targeting platform provides engine for pipeline expansion

Robust clinical pipeline with focused two clinical-stage programs. VMT-α-NET – First in human trial ongoing for neuroendocrine tumors. VMT01 – Targeting the melanocortin 1 receptor (MC1R) for melanoma

Theranostic ^{203}Pb – ^{212}Pb dual isotope enables imaging and therapy, improving patient selection and outcomes

Multiple expected **near-term readouts and milestones** through to 2025

Vertically integrated in-house manufacturing of ^{212}Pb isotope supply simplifies manufacturing and can leverage existing radiopharmacy logistics for broad distribution

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Platform Expansion Engine

Two Lead Programs in Clinic and Broad Proprietary Pipeline

Program	Indication	Discovery	Human Clinical Imaging	First in Human Therapy	Phase 1/2	Phase 3
VMT-α-NET	Neuroendocrine cancers					
	Pheochromocytomas, paragangliomas					
	Small cell lung cancer					
VMT01	Melanoma *(MC1R)*					
VMT02 *(PET agent)*	Melanoma (imaging of MC1R)					
PSV359 *(Novel peptide)*	Multiple solid tumors					
PSV401 *(Radio-hybrid)*	Prostate (PSMA imaging & therapy)					
Program 5 *(Novel peptide)*	Prostate, Breast					
Pre-targeting Platform *(mAbs)*	Solid and hematological tumors					
Other Programs *(Novel peptides)*	Solid and hematological tumors					

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Pipeline With Multiple Expected Near-Term Data Readouts

Pipeline

Program	Indication	Phase	4Q23A	1Q24E	2Q24E	3Q24E	4Q24E	1Q25E	2Q25E	3Q25E
VMT-α-NET	Neuroendocrine Tumors	Phase 1/2a	Enrollment in Phase 1/2a dose escalation study ongoing							
				Phase 1 Dose Escalation in NETs preliminary readout					Dose Expansion Cohort in NETs preliminary readout	
				Therapy results 10 pts: compassionate use						
VMT01/VMT02	Metastatic Melanoma	Phase 1/2a	Enrollment in Phase 1/2a dose escalation study ongoing							
				Phase 1 Dose Escalation in Melanoma preliminary readout						
									ICI Combo Expansion in Melanoma preliminary readout	
Various Developmental Programs	Multiple Solid Tumors	Pre-Clinical		Pipeline Expansion with Imaging Data			Preliminary Therapy – solid tumors			
	Prostate Cancer					Pipeline Expansion with Imaging Data			Preliminary Therapy – solid tumors	
	Breast Cancer							Pipeline Expansion with Imaging Data		
	Lung Cancer									

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Management Team

Deep Experience in Radiopharmaceuticals and Oncology Drug Development

Thijs Spoor

Chief Executive Officer

20+ years of expertise in biotechnology companies; public and private companies; oncology and nuclear pharmacy

Markus Puhlmann, MD MBA

Chief Medical Officer

20+ years of oncology drug development across all phases, experience coordinating multiple regulatory filings

Michael Schultz, PHD

Chief Science Officer

20+ years industry and research experience in radiopharmaceuticals; co-founder Viewpoint MT & inventor of Perspective products

Jonathan Hunt

Chief Financial Officer

20+ years of expertise in financial controls and public accounting for large and small companies across multiple industries

Frances Johnson, MD

Chief Innovation Officer

20+ years in clinical trials execution, managing academic research programs, founder and start-up of CareDx, Inc and Viewpoint MT

Amos Hedt

Chief Business Strategy Officer

20+ years of expertise in early-stage pharmaceutical and biotech drug development; 10+ years in radiopharmaceuticals

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Radiopharmaceuticals are a Pillar of Oncology Treatment

Unique Mechanism of Action Offers Pan-Cancer Opportunities

Molecularly Targeted Radiation

Radioligands can precisely deliver radiation directly to cancer cells reducing off-target effects
Proven pillar of cancer treatment
Perspective's platform technology is optimized for greater efficacy and fewer side effects

Optimized Patient Selection

Molecular imaging companion diagnostics enable visualization of the therapeutic target
Enables the selection of patients who may best respond to therapy
Perspective's elementally matched isotopes are paired for imaging and therapy

Monotherapy Activity and Combination Synergies

Ability for both monotherapy and combination treatments
Potential synergies with DNA damage response and immune checkpoint inhibitors
Perspective's targeted alpha therapy delivers potent and immunostimulatory radiation to tumor

Outpatient Friendly

Modern medical isotopes enable radiopharmaceuticals to be administered outside of hospitals
Treatments are easily-accessible globally with several hundred therapeutic locations in the U.S alone
Perspective's short half-life isotopes simplify patient administration and waste management

Unique Business Opportunity

Radiopharmaceutical theranostic product development is highly-specialized and technical
Greater expertise needed than for standard medicines potentially creating higher barriers to entry
Perspective develops patent-protected best-in-class intellectual property

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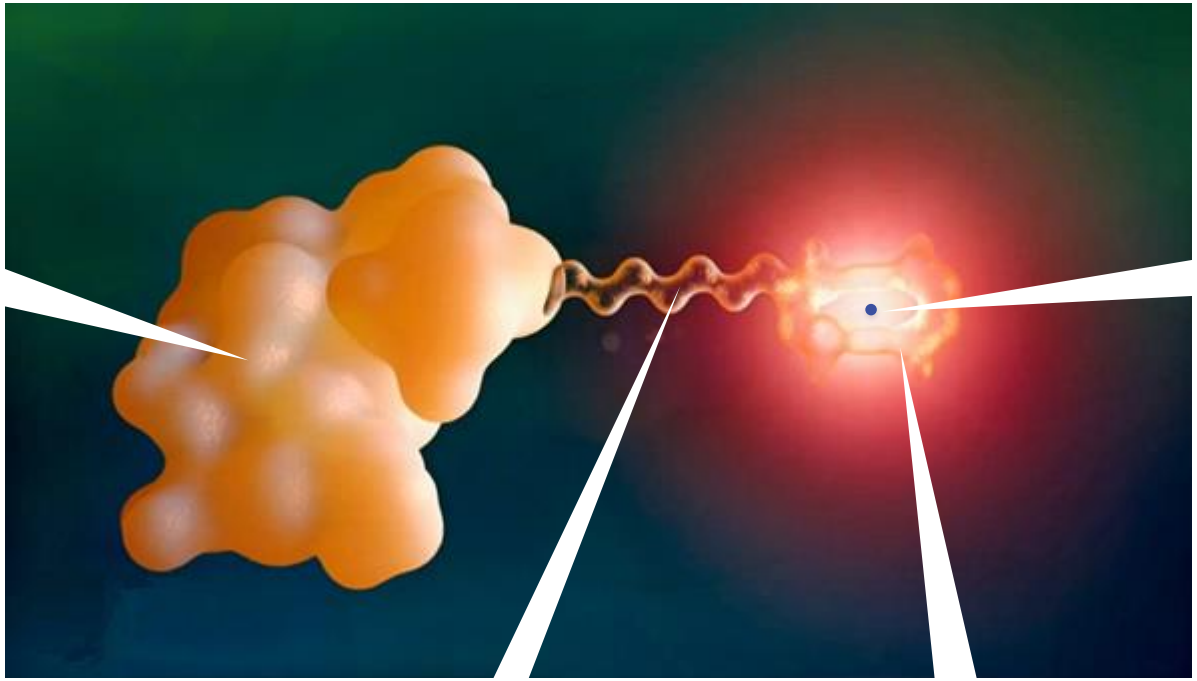
Perspective's Radiopharmaceutical Optimization Process

Unique Mechanism of Action Offers Pan-Cancer Opportunities

Targeting Peptide

Engineered for cancer-specific receptors to ensure highly directed uptake



Isotope

^{203}Pb for SPECT imaging

or

^{212}Pb for alpha particle therapy

Linker

Selected to assist peptide binding and optimize clearance from blood and healthy tissues

Chelator

Perspective's proprietary platform technology enabling stable radiolabeling with Pb isotopes

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Lead-212 (^{212}Pb): The Optimal Therapeutic Isotope

Alpha Particles Provide Numerous Benefits Over Currently Used Beta Particle Radiotherapies

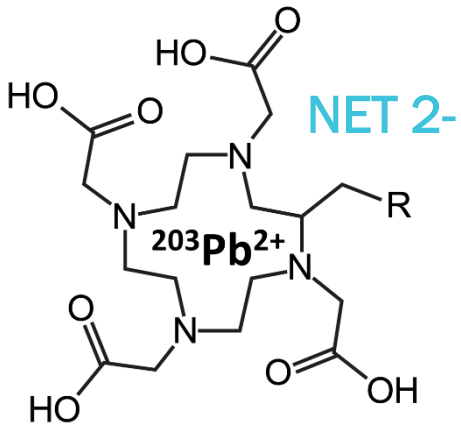
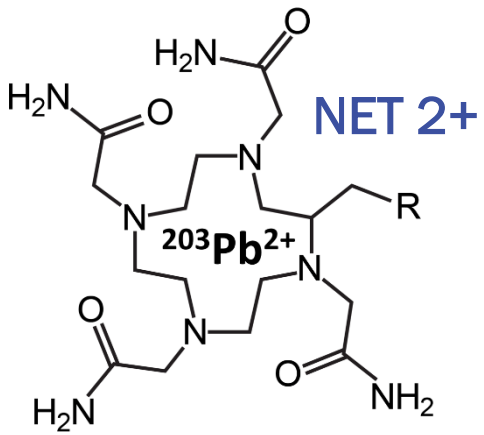
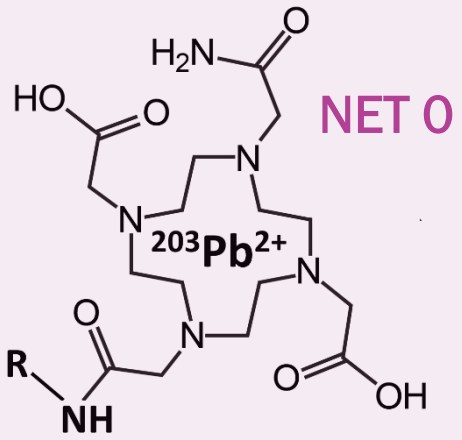
- With a much higher atomic mass, **alpha (α)** particles generate more energy and travel a shorter distance compared to beta (β) particles, making them more cytotoxic, while reducing their off-targeting effects on healthy tissue
- Alpha radiation causes direct lethal double-stranded DNA breaks, vs indirect single-stranded breaks in beta (β) radiation
- Cell death expected – NO resistance
- Greater therapeutic efficacy expected to improve outcomes with better safety

	Lead (^{212}Pb)	Iodine (^{131}I)	Lutetium (^{177}Lu)	Actinium (^{225}Ac)	Implication[1]
Emission Profile	Alpha	Beta	Beta	Alpha	Potent
Half Life	0.46 days	8 days	6.7 days	10 days	High dose-rate
Off Target Toxicity Risk	Low	Very high	Low	High	Best
Supply	High	High	Low	Low	Abundant
Cost of Production	Low	Low	High	High	High margin

[1]Company estimates and assumptions based on current literature and known physical constants

Chelator Optimized for $^{212/203}$Pb

Perspective's Enabling Technology for Pb-based Radiopharmaceuticals

DOTA	TCMC	PSC[1]
		
NET 2-	NET 2+	NET 0

Commercially Available — Perspective's Chelator

Perspective's Proprietary Chelator:

- Designed specifically for Pb isotopes
- Optimized for rapid renal clearance through neutralized formal charge
- Improves radiolabeling, receptor binding & internalization
- Generic chelators leak the ^{212}Bi alpha-emitting daughter up to 36%[2]

Generic chelators have not been optimized for Pb isotopes, potentially compromising safety, efficacy and manufacturing efficiency

[1]"Pb-Specific Chelator"; [2]Mirzadeh et al., Radiochimica Acta, 1993

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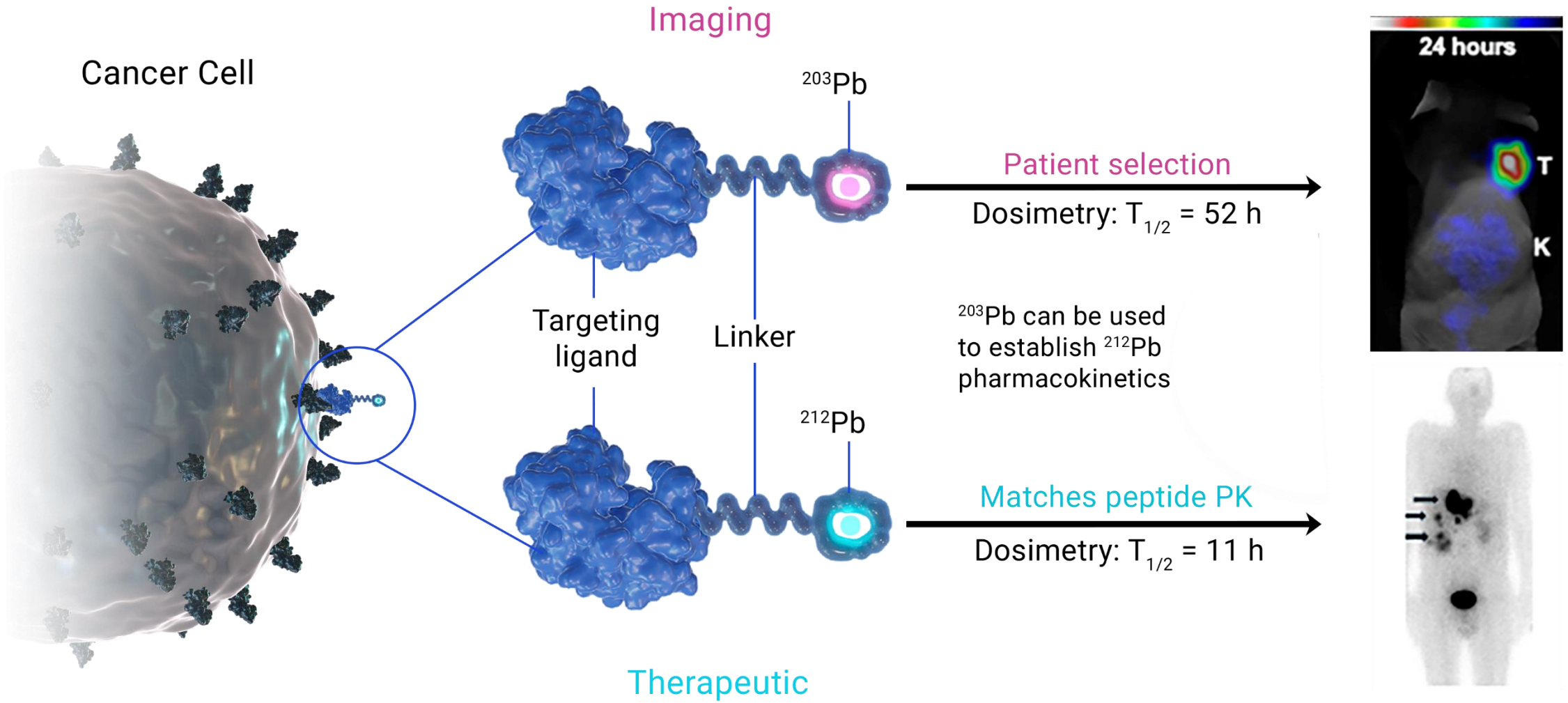
Pb-based Theranostics Enable Both Diagnosis and Targeted Treatment of Cancer

Identical Distribution of ^{203}Pb and ^{212}Pb for Imaging and Treatment, Respectively



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Neuroendocrine Tumors: VMT-α-NET

Targeting the somatostatin receptor to treat rare neuroendocrine-type cancers

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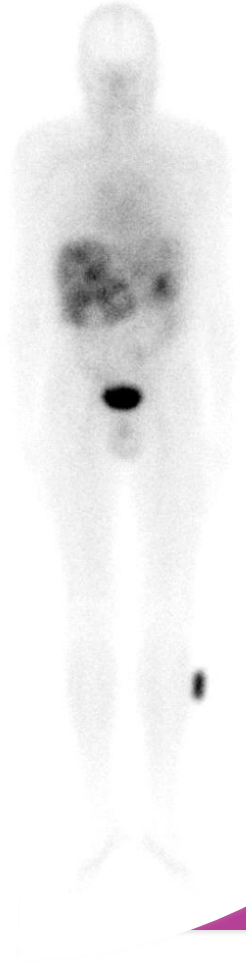
VMT-α-NET Currently in Phase1/2a Studies: Key Facts



Targeting somatostatin receptor type 2 (SSTR2) for the imaging and treatment of neuroendocrine tumors

Initiated first-in-human imaging (2021) & therapy (2022) under compassionate use

Fast Track Designation for first line therapy received October 2022

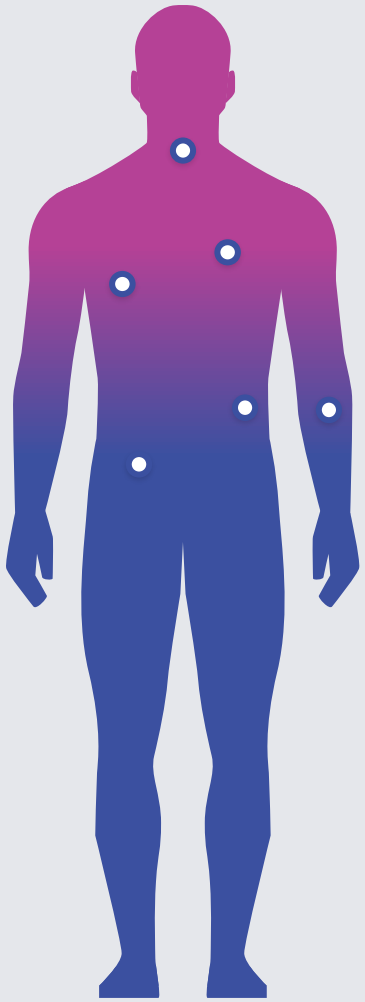
Therapeutic Trial in first line setting currently recruiting under open IND

US Phase 1 prospective dosimetry study in PRRT refractory patients recruiting at the University of Iowa

Image Panel: SPECT scan of NETs patient imaged with [^{203}Pb]VMT-α-NET

SSTR2 is an Attractive Target for Identifying and Treating Tumors

Expressed Across Several Tumor Types



Neuroendocrine tumors (NETs)

- Neuroendocrine cells are specialized cells that secrete hormones and other bioactive substances
- Neuroendocrine cells are found throughout the body
- Often grow in the pancreas or other areas of the gut, such as the stomach, small intestine, rectum, colon or appendix

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SSTR2 is expressed widely in various tumors

- Meningioma
- Pituitary adenomas
- Nasopharyngeal carcinoma
- Thyroid cancer
- Breast cancer
- Small cell lung cancers
- Merkel cell carcinoma
- Melanoma

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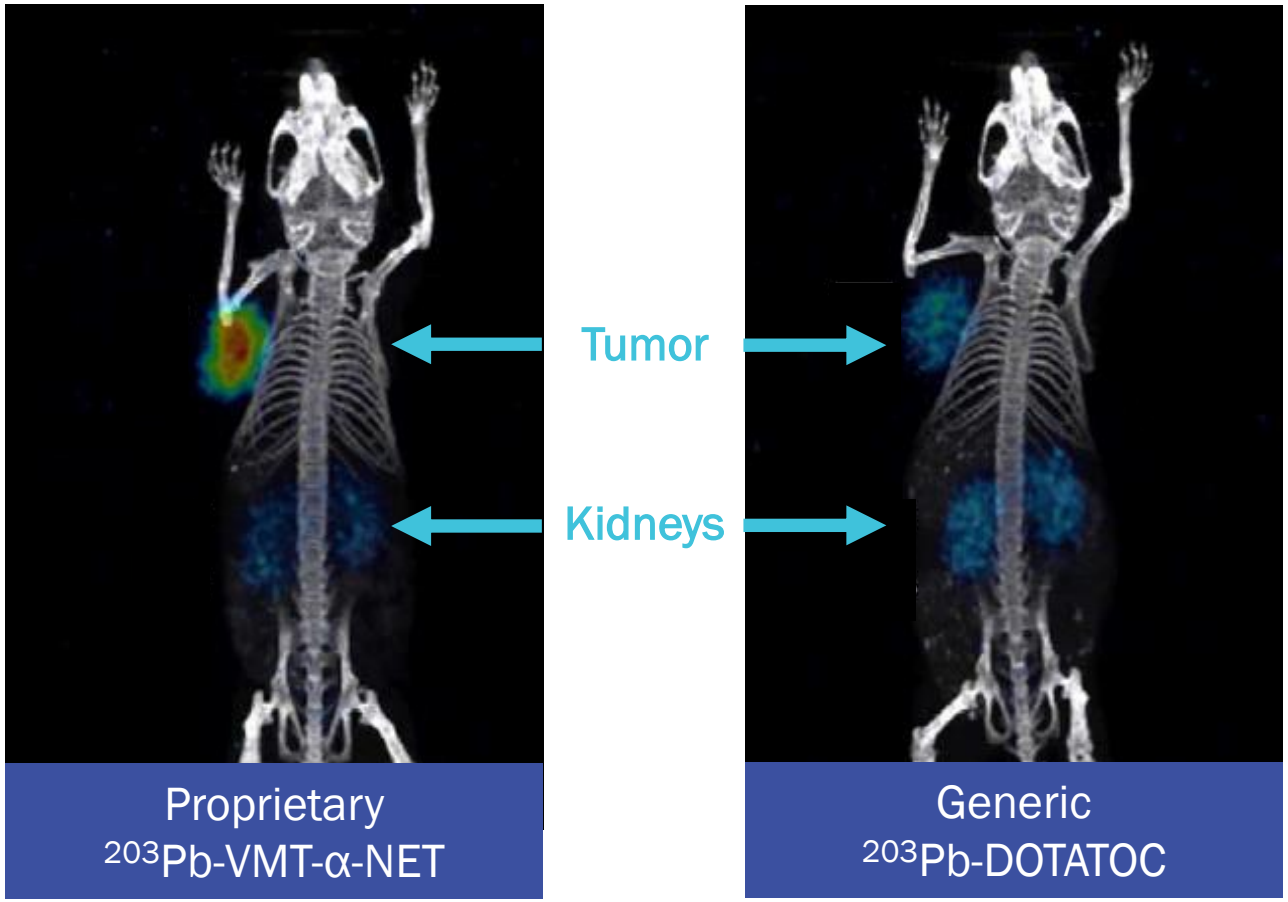
Superiority of Perspective's Platform Technology vs Generic Compounds

Decreased Off-Target Toxicity, Increased Tumor Uptake and Retention in Preclinical Studies

Key Takeaways

SSTR2 tumor model demonstrates superiority of VMT-α-NET to generic compounds

8-fold improved tumor uptake with decreased kidney retention



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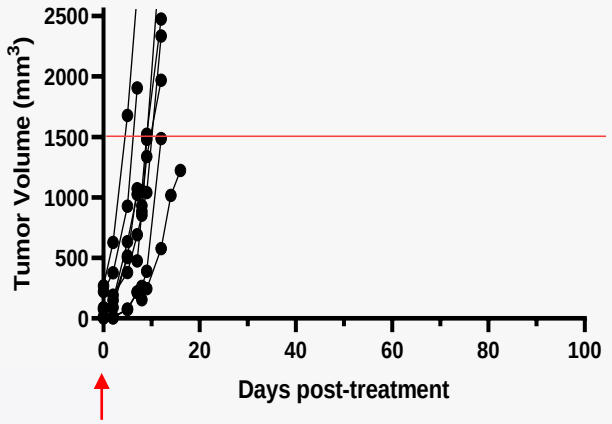
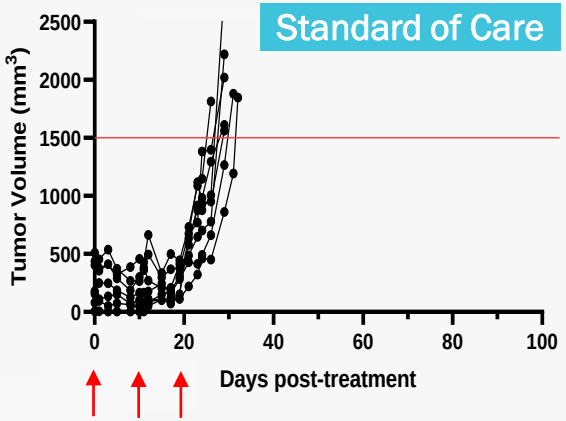
VMT-α-NET Shows Significant Improvement vs Standard of Care in Preclinical Models

Superior Efficacy with Single Dose or Multiple Administrations in AR42J SSTR2-Expressing Tumor

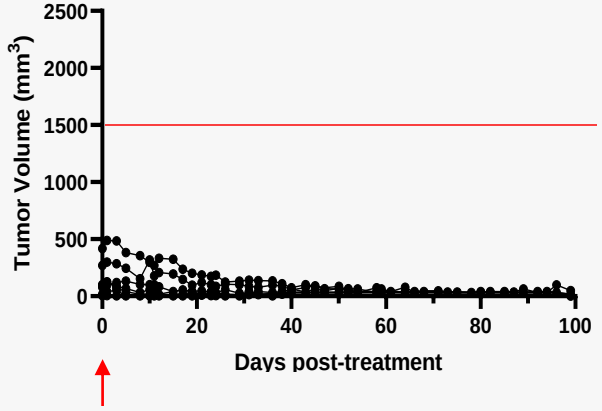
Vehicle



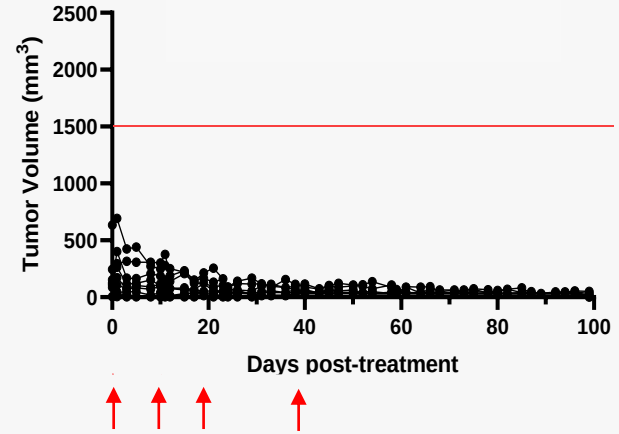
[^{177}Lu]DOTATATE (3 x 500 µCi)



[^{212}Pb]VMT-α-NET (1 x 120 µCi)



[^{212}Pb]VMT-α-NET (4 x 30 µCi)



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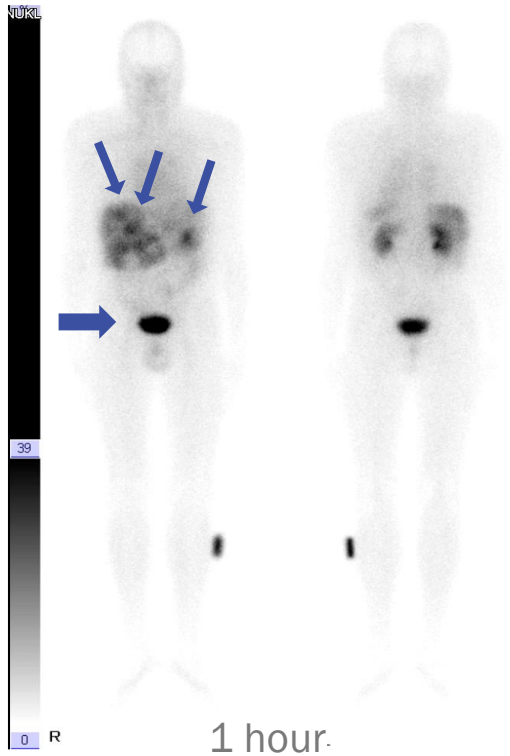
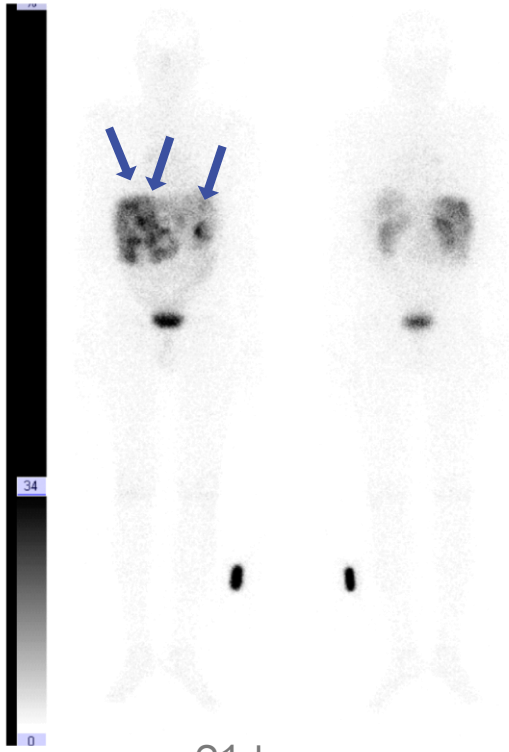
^{203}Pb SPECT Imaging Reveals Favorable VMT-α-NET Properties[1]

Rapid Tumor Targeting and Renal Clearance



1 hour

High Tumor Retention



21 hours

- Tumors visible within 1 hour indicates rapid binding to SSTR2 target
- High intensity above background implies excellent therapeutic window
- Unbound drug in bladder within 1 hour for excretion
- Low renal retention due to neutral charge on proprietary Pb-specific chelator

[1]Muller et al., Clin. Nucl. Med. 2023

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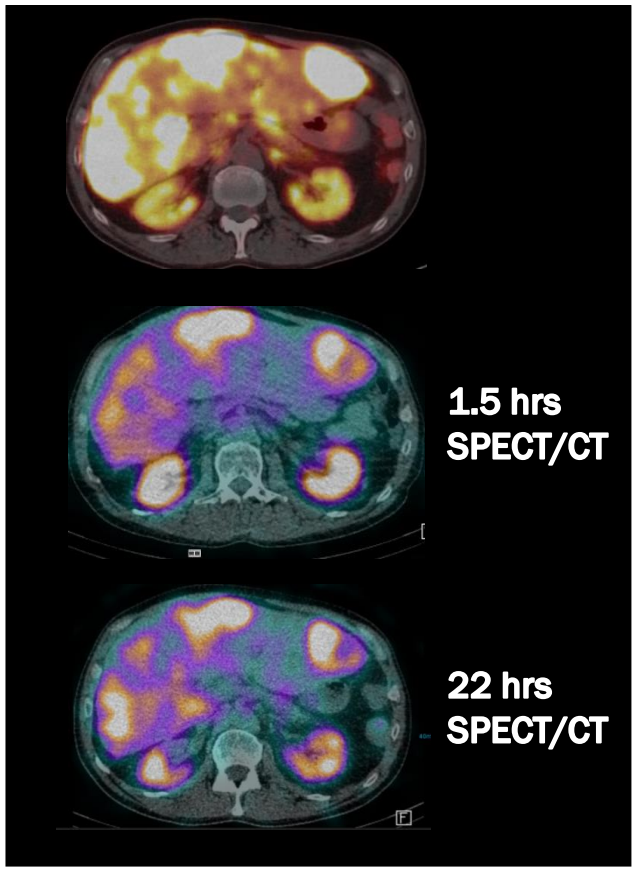
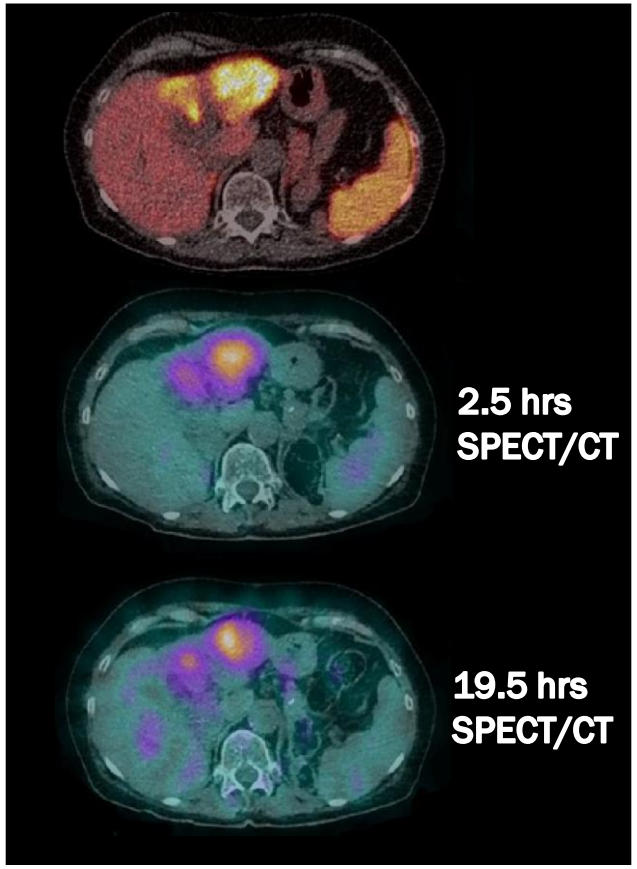
^{212}Pb SPECT/CT Imaging Confirms VMT-α-NET Tumor Uptake

Diagnostic and Therapeutic Show Same Uptake and Retention Characteristics

^{203}Pb SPECT/CT Imaging[1]
Pt#001



^{212}Pb SPECT/CT Imaging[2]
Pt#009



- Both ^{203}Pb and ^{212}Pb can be imaged directly using SPECT
- SPECT/CT shows very rapid tumor uptake and retention of [^{212}Pb]VMT-α-NET
- After 24 hours more than 80% of alpha particles will be generated
- This high alpha dose rate is ideally matched to the biological clearance of the VMT-α-NET peptide

[1]Muller et al., Clin. Nucl. Med. 2023; [2]Michler et al., EJNMMI 2023

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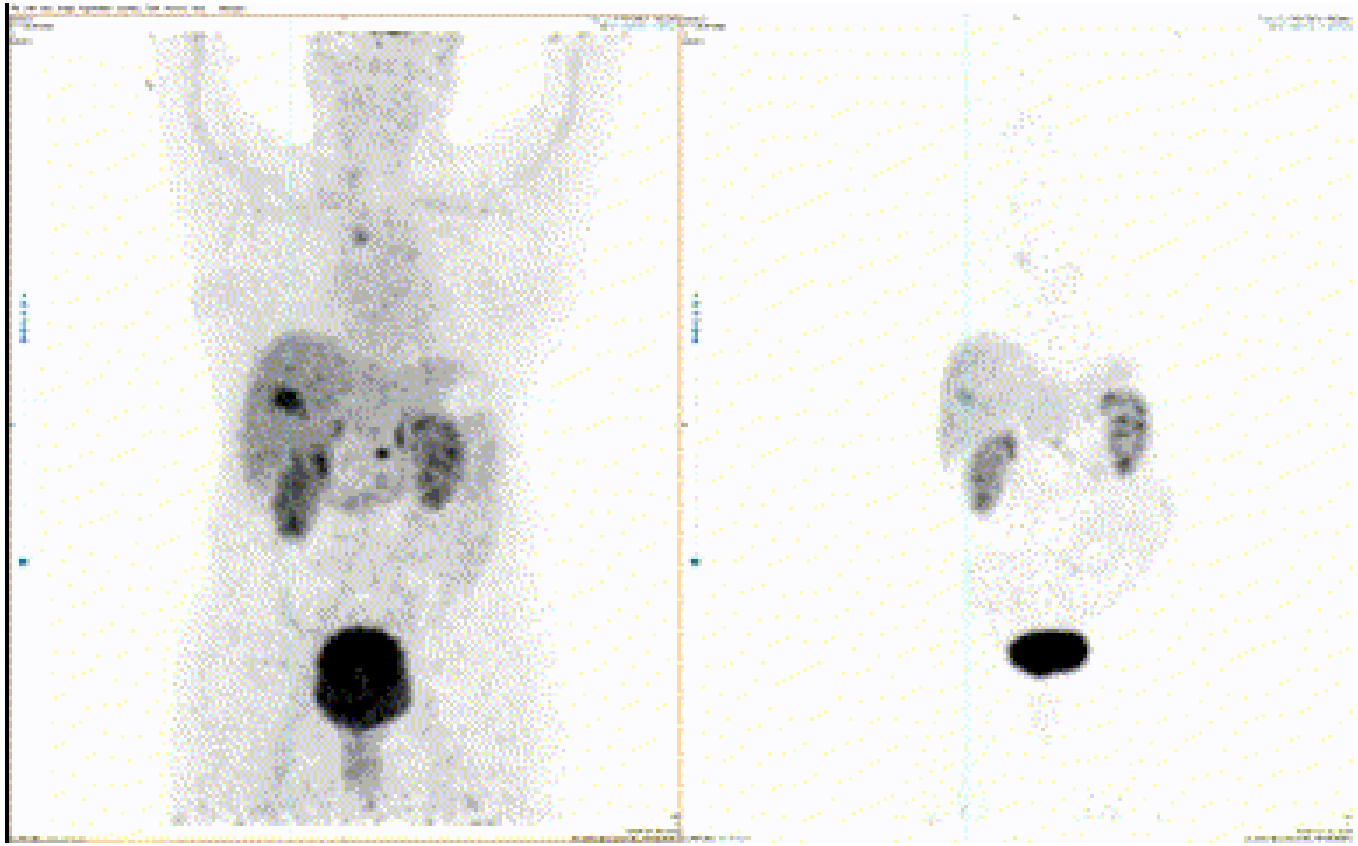
Significant Response After Single Dose of [^{212}Pb]VMT-α-NET

Metastatic NET Pancreas with Adrenal Crisis – Maximum Intensity Projection (MIP)

Tumor Before Treatment | Tumor After 1 Dose



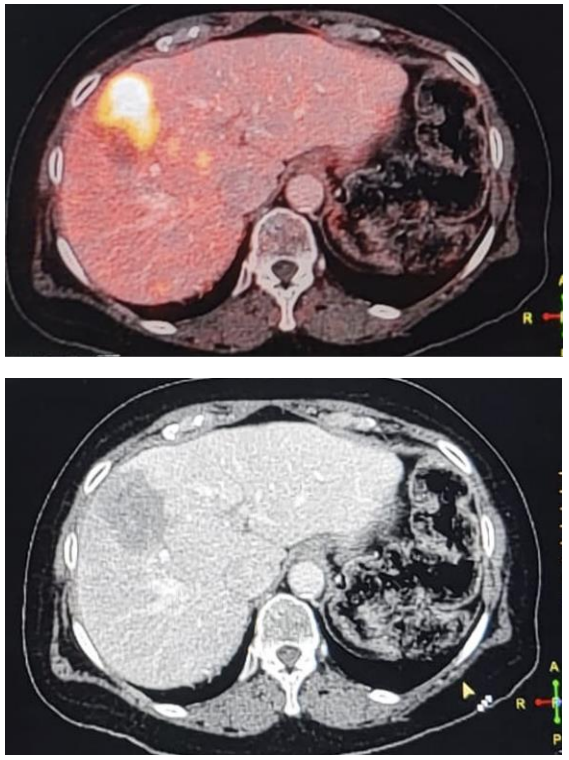
- ^{68}Ga-DOTA-NOC PET images at base line and post 1st dose of [^{212}Pb]VMT-α-NET
- MIP suggesting strong reduction of intensity (thoracic lesions) and decreasing tumor volume (Partial Response)

Fortis Memorial research institute (FMRI), Gurugram, India

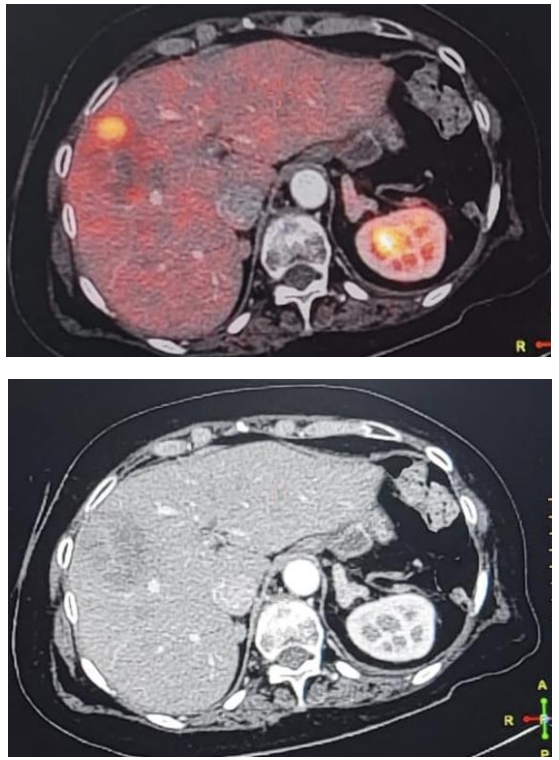
Significant Response After Single Dose, Almost Complete Response After 3 Doses

Metastatic NET Pancreas with Adrenal Crisis

Tumor Before Treatment	Tumor After 1 Dose	Tumor After 3 Doses



(S.ACTH)[1]– 790 pg/ml



S.ACTH – 96 pg/ml

[1] Serum Adrenocorticotropic Hormone

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Clinical Investigation of [^{212}Pb]VMT-α-NET in Metastatic SSTR2 Positive Patients

Interim Results as of September 28, 2023, for Ongoing Investigation in India

Treating Physician:
Dr. Ishita B Sen
Director & Head
Dept. of Nuclear Med.
& Molecular Imaging
Fortis Memorial Research
Institute, Gurgaon, India

Current Status

- Patients with prior lines of therapy, late-stage, anatomically different NETs (mean age: 48 years; 4 females)
- 10 patients administered [^{212}Pb]VMT-α-NET
- 7/10 patients continuing on therapy
- 1 patient completed 4x treatments
- 2 patients discontinued due to progressive disease
- 25 total [^{212}Pb] VMT-α-NET doses administered to date

Response

- Response (radiological or biochemical) is seen in 8/10 patients
- Death: 1/10 (not drug related)
- Awaiting Evaluation: 1
- Quality of Life (EORTC QLQ–GLNET21 Score) trending positively

Safety

- No significant renal or hepatic function derangement to date
- Mild Adverse Effects:
  - Grade I Anemias
  - Alopecia
  - Fatigue – usually up to 1 week after administration
- 2 SAEs (unrelated to study drug):
  - Acute Cardiac Event in 25-year-old pNET patient (heavily pretreated)
  - Myelodysplastic Syndrome (MDS) in 79-year-old Medullary Thyroid Carcinoma patient (found positive for BCR-ABL gene)

Dr Dharmender Malik, Fortis Memorial research institute (FMRI), Gurugram, India. Presented at EANM 2023 - Interim Results

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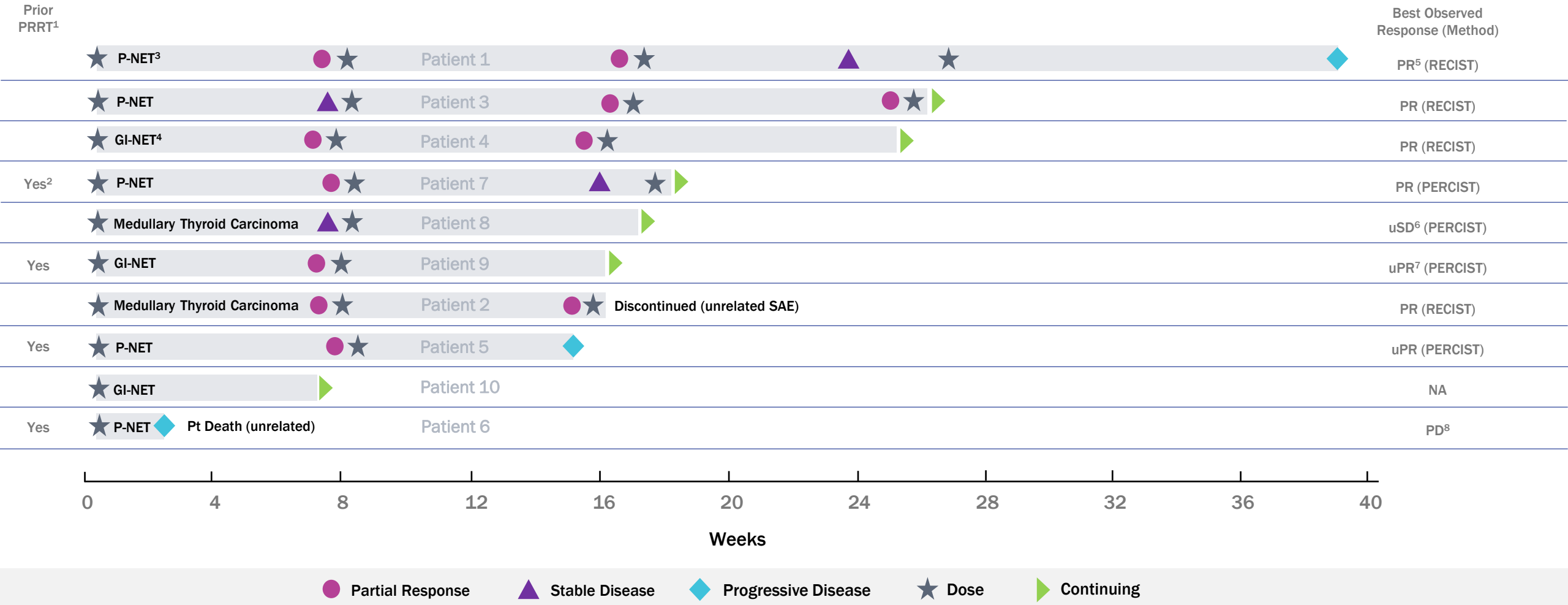
High Partial Response Rate at Starting Dose in Patients with SSTR+, Late-Stage NETs

Interim Results as of September 28, 2023, for Ongoing Clinical Investigation Program in India



[1] 4 x [^{177}Lu]DOTATATE
[2] 4 x [^{177}Lu]DOTATATE plus 3 x [^{225}Ac]DOTATATE
[3] Pancreatic NET
[4] Gastro-intestinal NET
[5] Partial Response
[6] unconfirmed Stable Disease
[7] unconfirmed Partial Response
[8] Progressive Disease

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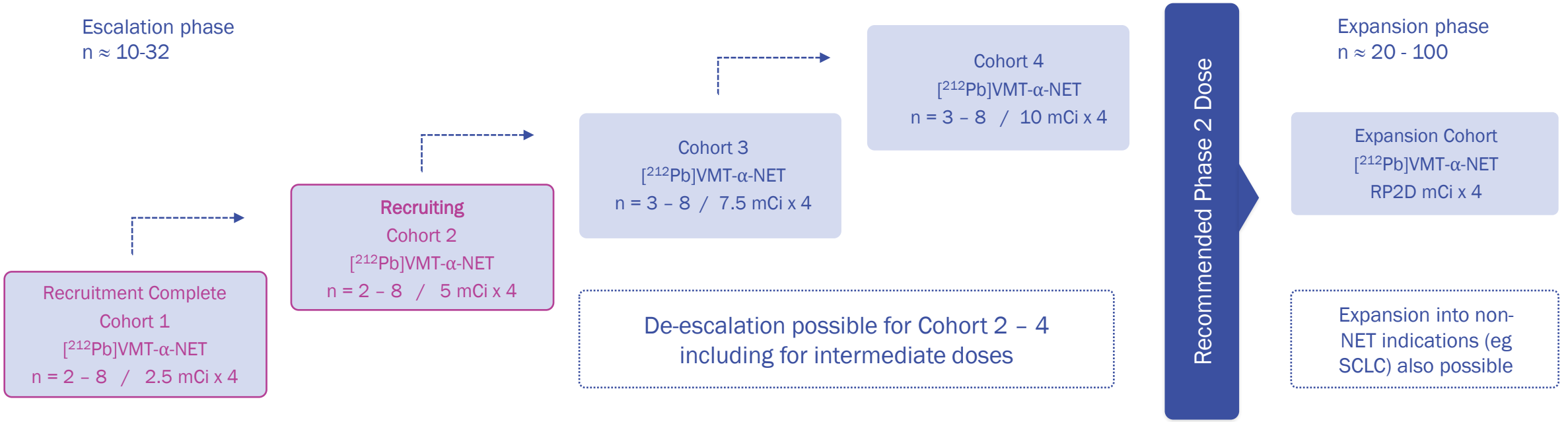
Trial Design: [^{212}Pb]VMT-α-NET mTPI-2[1] Phase 1/2a For Neuroendocrine Tumors

Primary Objective:	To determine the MTD/MFD of [^{212}Pb]VMT-α-NET (RP2D)	**Imaging:**	FDA approved SSTR2 PET/CT
Population:	Escalation n ≈ 10-32 Expansion n ≈ 20 – 100 Unresectable or metastatic SSTR2-positive NETs PRRT naïve	**Therapeutic Dose:**	2.5–10 mCi dose escalation with fixed dosing every 8 weeks for up to 4 cycles
		Estimated Time to Primary Completion:	~18 months
Design Methodology:	Bayesian mTPI2 based on iterative toxicity probability monitoring	**Dosimetry:**	To be assessed during screening for cohorts 1 & 2 using 5-7 mCi [^{203}Pb]VMT-α-NET



[1]mTPI-2: Modified toxicity probability index
https://clinicaltrials.gov/study/NCT05636618

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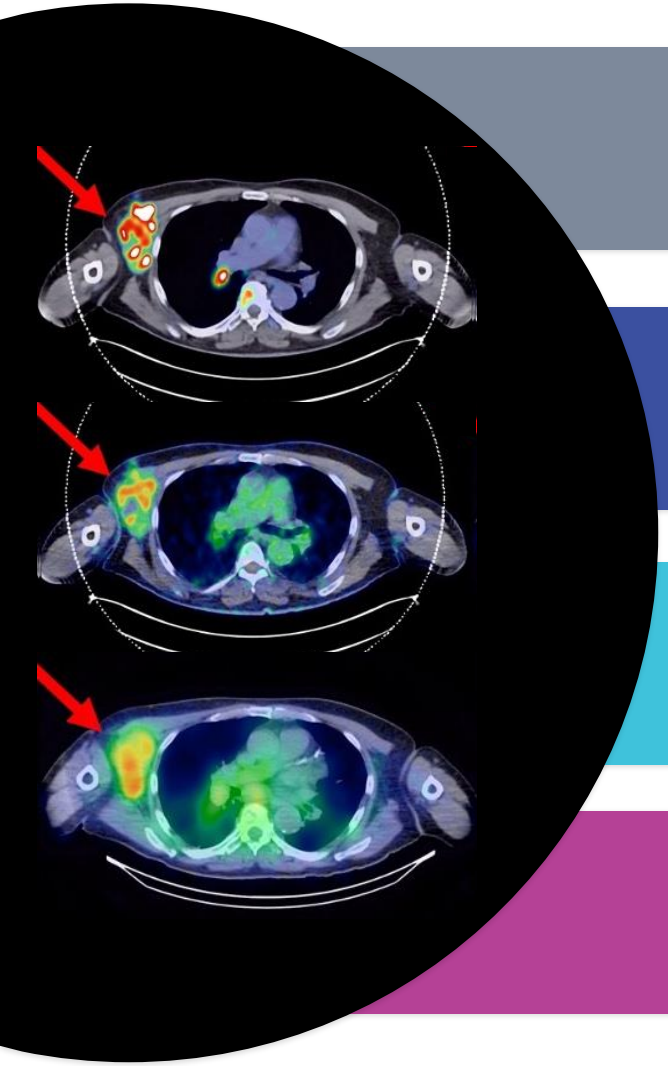
Melanoma Program: VMT01/02

Using the melanocortin receptor MC1R to target melanoma for imaging and therapy

VMT01 Currently In Phase1/2a Studies: Key Facts



Targeting melanocortin 1 receptor (MC1R)

Preclinical combination data (published) resulted in $2m NIH SBIR Grant

Results from completed Phase 1 imaging study presented in Q2 2023
Study was conducted at the Mayo Clinic Rochester

Open IND for Therapeutic Trial with first patient treated
Expected to Receive Orphan Drug Designation and Fast Track Application

Image: Top panel - PET/CT cross section of a metastatic melanoma patient using FDG;
middle panel - PET/CT of the same patient with VMT02; lower panel - SPECT/CT of same patient with VMT01

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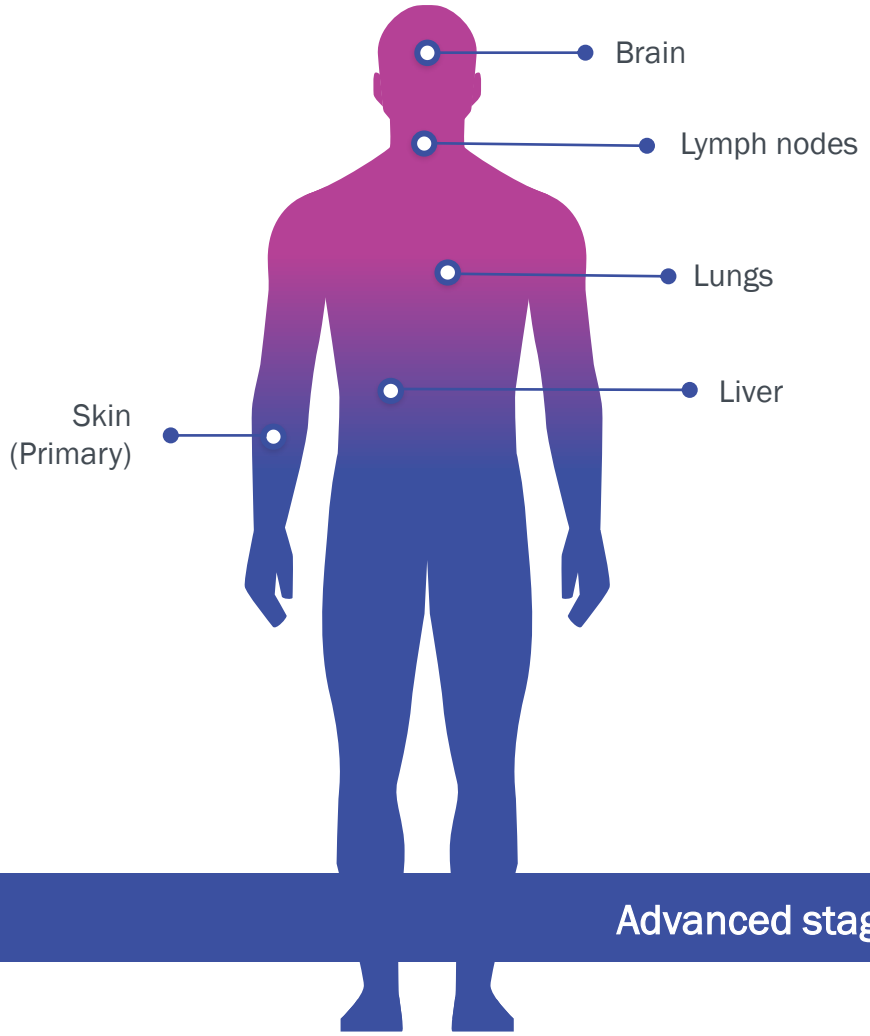
Metastatic Melanoma



[^{212}Pb]VMT01 target indication:

MC1R-positive melanoma

- **Projected market opportunity for melanoma of $8 billion+ in 2028**[1]
- **Significant unmet need in the U.S.:**
  - **~100K** new diagnoses annually[2]
  - **~8,000** people die from melanoma every year[2]
- Treatment depends on the stage of tumor
- Approaches may include surgery, radiation, chemotherapy and immunotherapy
- 5-year survival rate for metastatic melanoma is only 22.5%[3]

Advanced stages of disease occurs throughout the body requiring aggressive systemic treatment

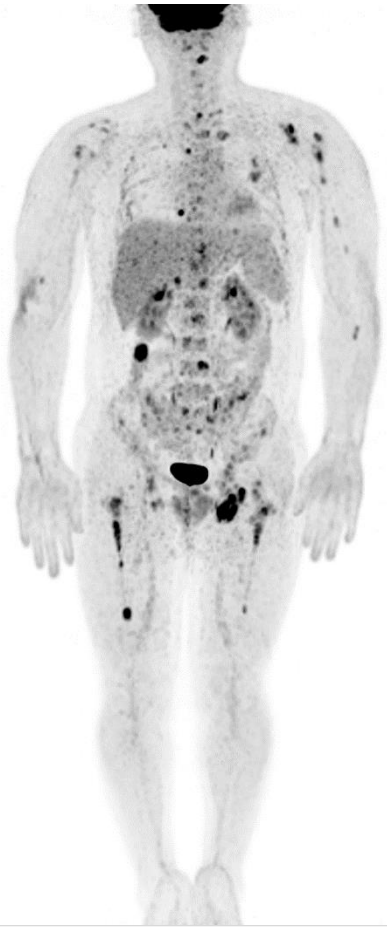
[1]https://www.marketdataforecast.com/market-reports/melanoma-therapeutics-market, [2]cancer.org, [3]curemelanoma.org

PERSPECTIVE THERAPEUTICS

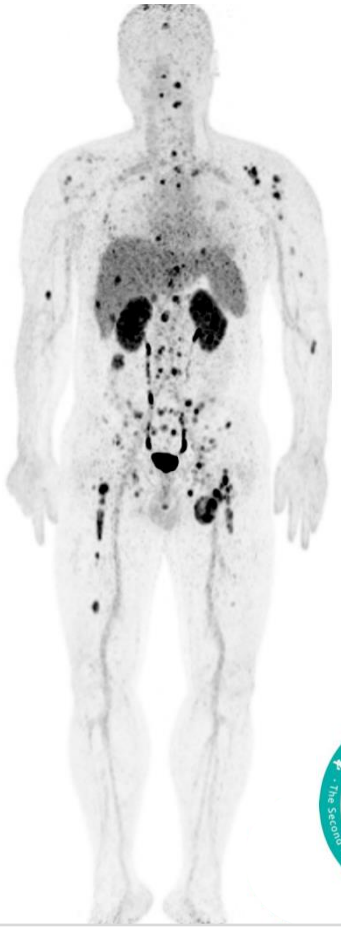
[^{68}Ga]VMT02 PET Imaging in Patient with MC1R Positive Metastatic Melanoma

Diagnostic Peptide Demonstrates Similar Uptake to FDG in Tumors

^{18}F-FDG (Standard of Care)



[^{68}Ga]VMT02



Patient information:

- Male, Asian, 33 years old
- [68Ga]VMT02: 7 mCi injection, 45 min post-injection imaging

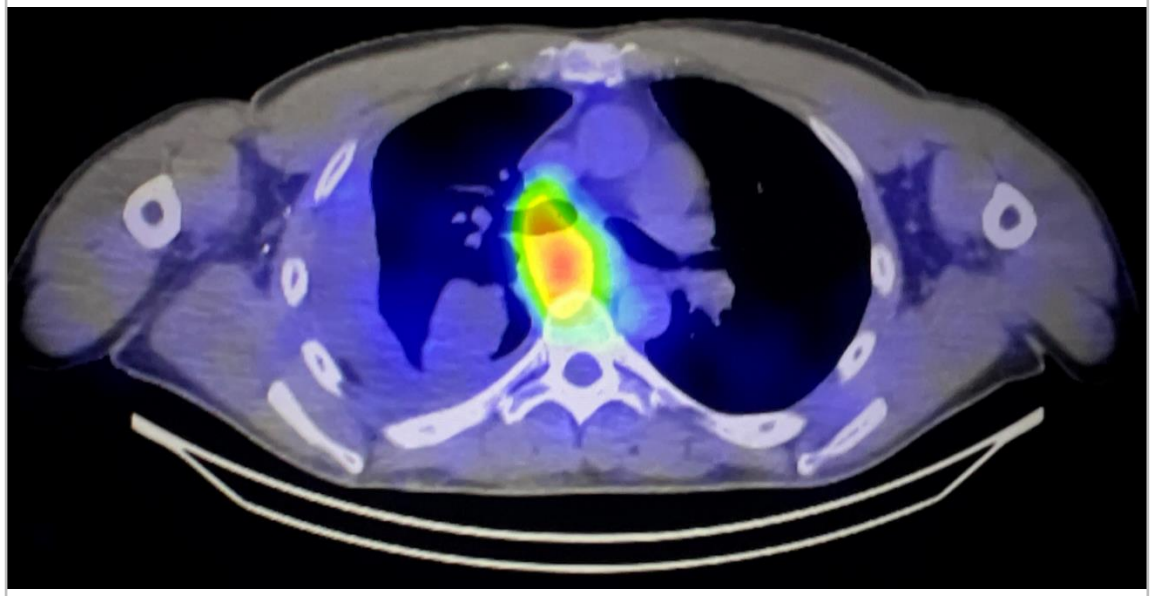
Clinical Collaborator:

Xiaowei Ma, M.D., Ph.D.
Assoc. Prof. & Director
Department of Nuclear Med.
The Second Xiangya Hospital
Central South University
China

Combination Targeted Alpha Particle Therapy & Immunotherapy

Targeting MC1R Positive Melanoma

High intensity uptake of [^{203}Pb]VMT01 in esophageal metastatic site



[^{203}Pb]VMT01 SPECT/CT[1]

Combination with Standard of Care Immunotherapy

- Ionizing radiation is an inducer of immunogenic cell death[2]
- Due to their destructive nature, alpha particles are particularly good at generating neoantigens for immuno-sensitization[3]
- In melanoma, immune checkpoint inhibitors (ICIs) have revolutionized treatment, but the majority of patients are non-responsive[4]
- MC1R-targeted alpha particles might synergize with existing SoC ICIs

In melanoma, the combination of targeted alpha therapy and ICIs is very compelling

[1]TIMAR-1 Phase 1 imaging study conducted at the Mayo Clinic Rochester; [2]Maier et al., Int. J. Mol. Sci. 2016; [3] Pouget et al., Front. Med. 2021; [4]Sharma et al., Cell, 2017

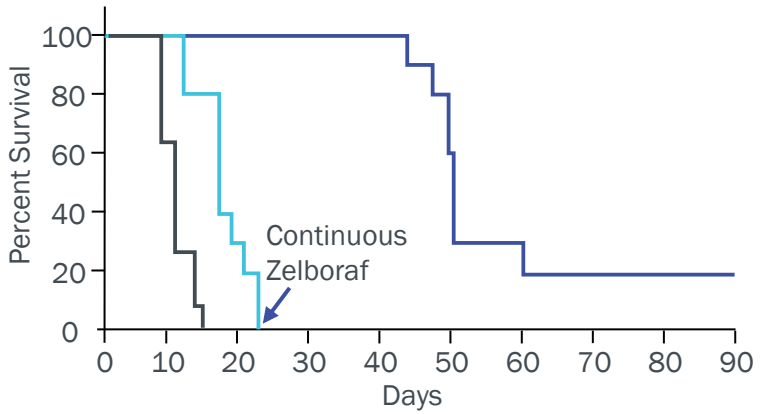
[^{212}Pb]VMT01 in Combination Demonstrates Synergistic Responses

Multiple Melanoma Tumor Models Show Promise of Combining with Standard of Care

Key Takeaways

- High response rates in multiple tested models
- 43% complete and durable response if combined with immunotherapy in a model highly resistant to checkpoint inhibitors[1]
- Combination with immune checkpoint inhibitors induced synergistic anti-tumor effect

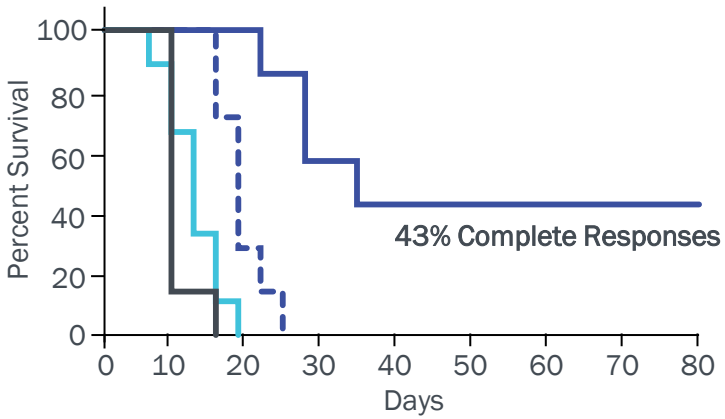
Single dose of VMT01 in combination significantly arrested melanoma tumor growth and extended survival[1,2]



Immunodeficient human melanoma xenograft model – BRAF-positive

Single dose VMT01 + BRAF*i* vs. BRAF*i* alone

- Control
- BRAF*i*
- ^{212}Pb α-therapy + BRAF*i*



Immunocompetent mouse B16:F10 melanoma model

Dual ICI: (anti-CTLA4 + anti-PD1) vs. Single dose VMT01 + dual ICIs

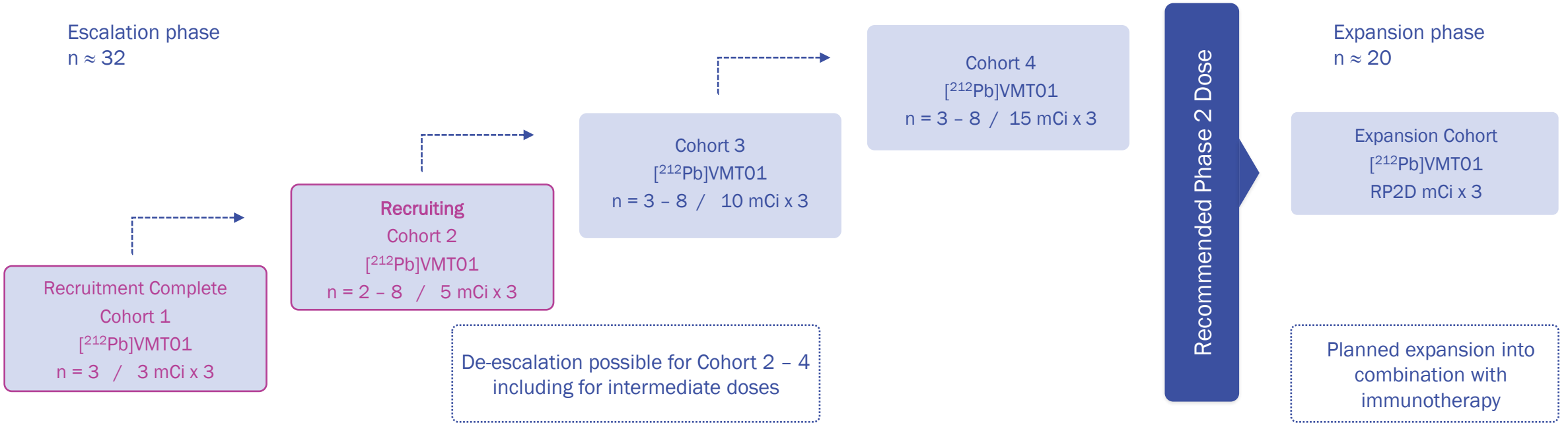
- Control
- Dual ICIs
- ^{212}Pb α-therapy
- ^{212}Pb α-therapy + dual ICIs

[1]Li et al., Mol. Pharm., 2019; [2]Li et al., Cancers, 2021

PERSPECTIVE THERAPEUTICS

Trial Design: [^{212}Pb]VMT01-T101 mTPI1 Phase 1/2a For Metastatic Melanoma

Primary Objective:	To determine the MTD/MFD of [^{212}Pb]VMT01 (RP2D)	**Imaging:**	[^{203}Pb]VMT01 SPEC/CT or [^{68}Ga]VMT02 PET/CT
Population:	Screen ~120 subjects Enroll ~52 subjects Unresectable or metastatic MC1R-positive Melanoma	**Therapeutic Dose:**	3 – 15 mCi dose escalation with fixed dosing every 8 weeks for up to 3 cycles
		Estimated Time to Primary Completion:	~18 months
Design Methodology:	Bayesian mTPI2 based on iterative toxicity probability monitoring	**Dosimetry:**	To be assessed using 15 - 25 mCi therapeutic surrogate [^{203}Pb]VMT01



[1]mTPI-2: Modified toxicity probability index
https://clinicaltrials.gov/study/NCT05655312

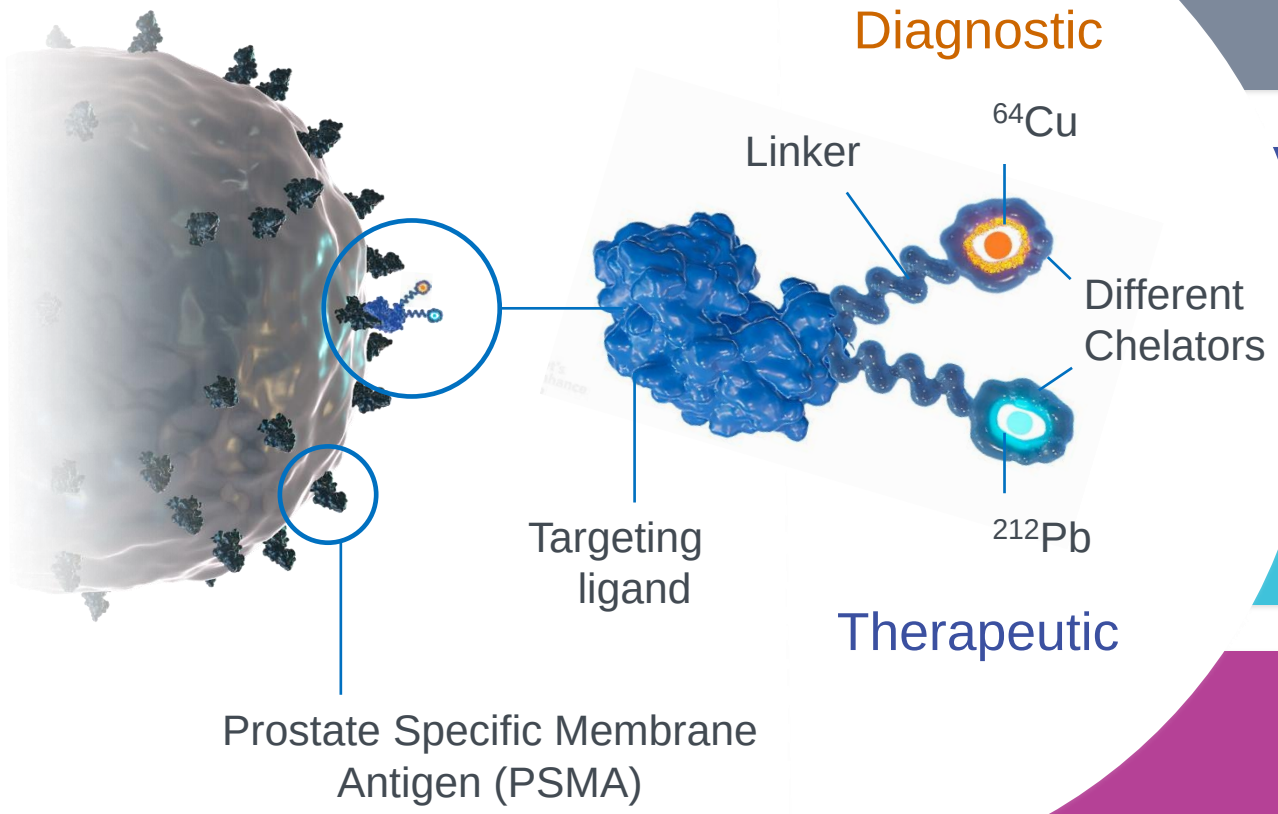
PERSPECTIVE THERAPEUTICS

Prostate Cancer Program: PSV401

A differentiated PSMA-targeted radiohybrid molecule for dual PET imaging and targeted alpha therapy

Prostate Cancer Program: PSV401

A differentiated PSMA-targeted radiohybrid molecule for dual PET imaging and targeted alpha therapy



PSMA is a clinically and commercially validated target for radioligand therapy

Combines two chelators with single targeting ligand to provide identical distribution of imaging and therapeutic

Has shown promise in reduction of salivary gland uptake in preclinical models of prostate cancer[1]

Technology Licensed from Mayo Clinic January 2024
IND-enabling studies underway
First in Human data expected in 2024

[1]Johnson et al., RPT Interest Group June 7 2023 https://rrp.cancer.gov/working_groups/AlphaPET-RPT_Int_group_lecture.pdf

PERSPECTIVE THERAPEUTICS

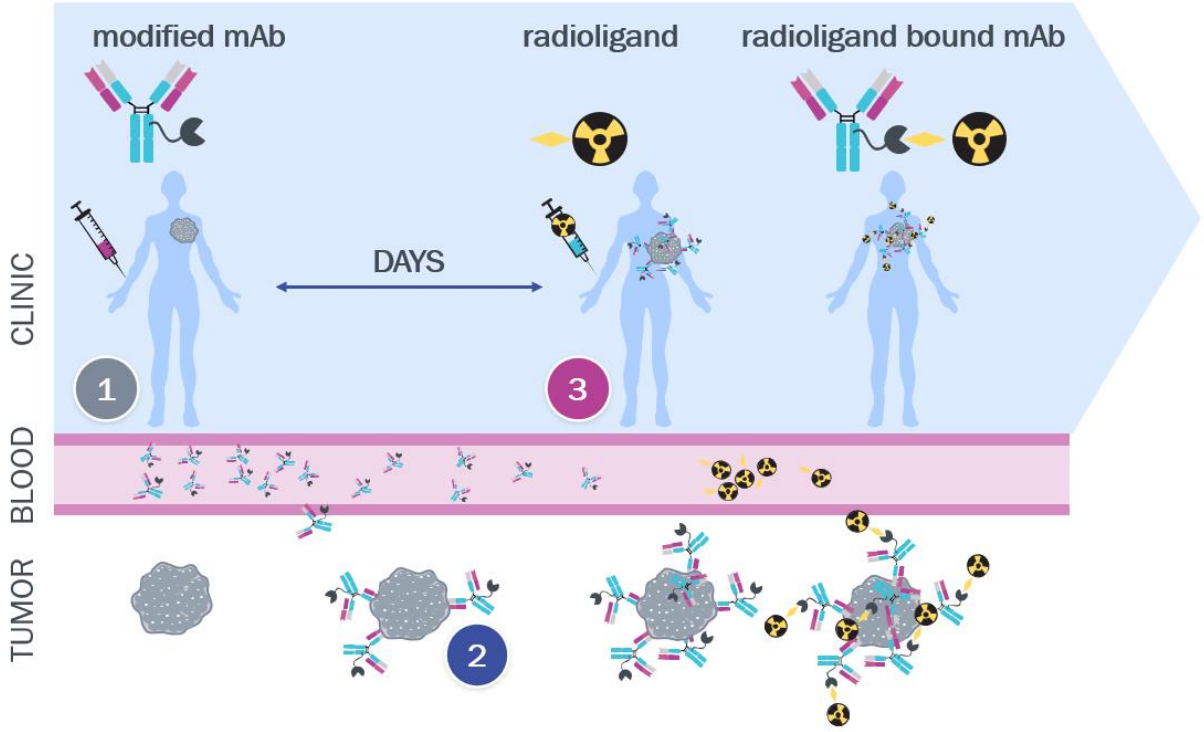
Pre-Targeting Platform

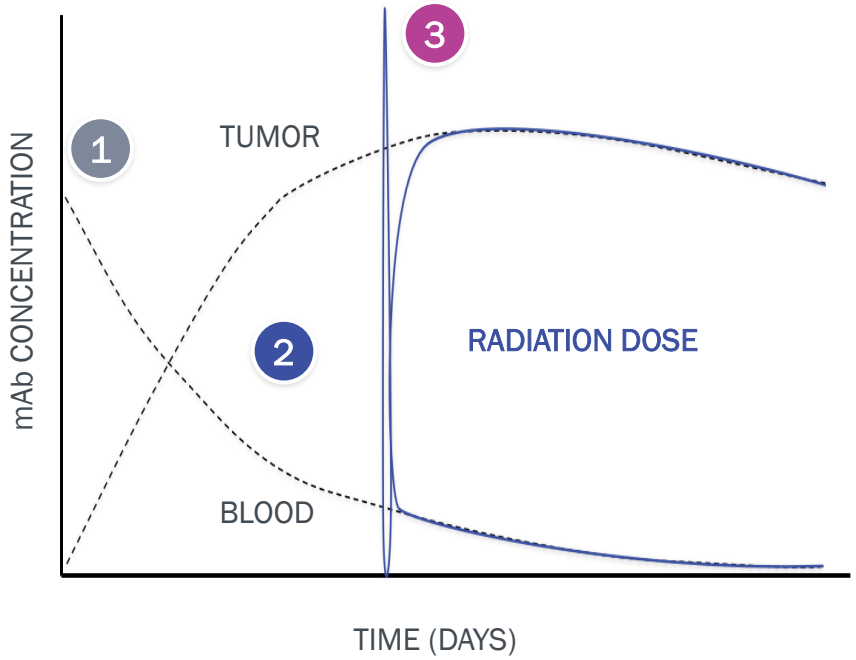
The Next Generation of Targeted Alpha Particle Radiopharmaceuticals

Pre-Targeting Platform Background

Relies on the different kinetics of large proteins and small molecules and a multi-step process

1. Administer cold modified monoclonal antibody or targeting protein
2. After several days, mAb will have accumulated on tumor and cleared from blood
3. Administer radiolabeled ligand, which binds specifically to mAb and clears rapidly from circulation





Figures adapted from Jallinoja et al., J. Nuc. Med., 2023 and Liu, Front. Pharmacol., 2018

PERSPECTIVE THERAPEUTICS

Manufacturing, Production and Logistics of ^{212}Pb-labeled Therapeutics

The Path to Commercial Supply

^{212}Pb is Plentiful, Storable, Scalable & Suitable for Distributed Logistics

The supply chain is lower-risk and more robust than other therapeutic isotopes

Isotope Source

Naturally occurring in mining waste

Also produced in industrial nuclear processes

Can be made on demand if needed

All other therapeutic isotopes require capital-intensive infrastructure manufacturing processes (irradiation)

Isotope Purification

Parent isotope Thorium-228 can be stored (2 yr half-life)

^{212}Pb purified from 228Th or 224Ra source in simple separation step

VMT-α-GEN enables shipping of isotope and purification of ^{212}Pb in one package

Product Manufacturing

VMT-α-GEN ^{212}Pb generator technology scales for commercial production

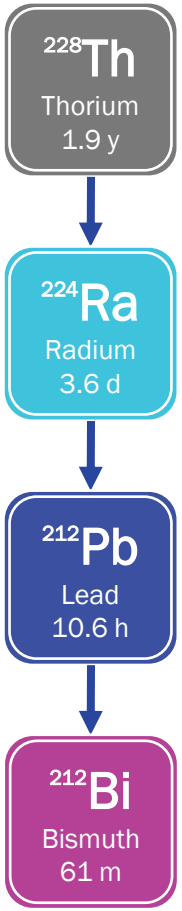
Extremely pure isotope allows straight forward manufacturing process

10.5 hr half life of ^{212}Pb allows for robust regional distribution of finished radiopharmaceuticals

PERSPECTIVE THERAPEUTICS

Isotope Decay Chain Dictates Supply, Purification, Manufacturing & Logistics

Naturally Occurring Isotope Decay – No Irradiation Processes Required



Plentiful Supply:
Naturally occurring, or
produced as a waste product

- Multiple global suppliers including natural decay
- 2 year half-life allows stockpiling

Chemical Separation:
Allows for Ra-based
generators of ^{212}Pb

- Half-life allows global distribution
- Weekly delivery of ^{224}Ra enables daily ^{212}Pb
- 3.6 day half-life allows local stockpiling

Chemical Separation from ^{224}Ra:
Isotope used for manufacturing
finished product

- Regional finished product manufacture
- Leverages existing networks for logistics

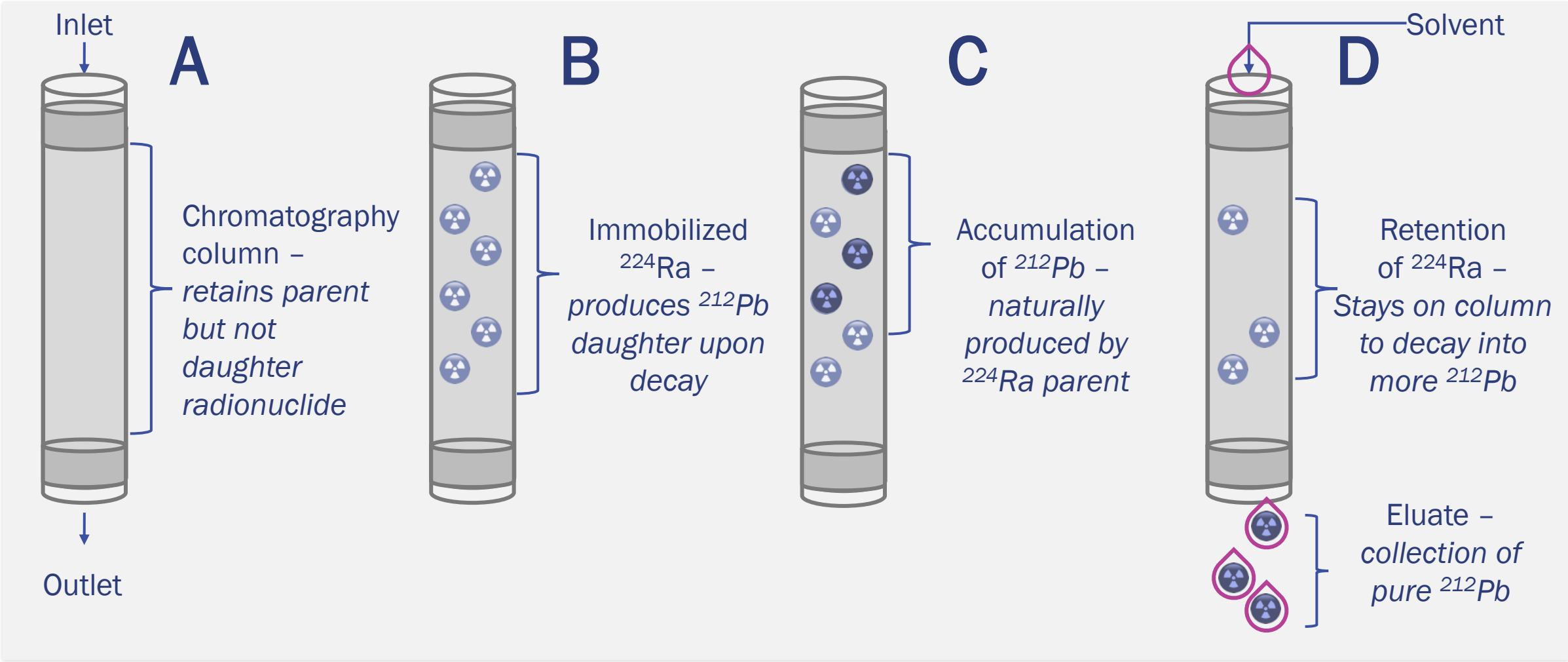
High dose-rate alpha-emitting
therapeutic isotope

- ^{212}Pb acts as *in vivo* “nanogenerator” of alphas
- Perspective’s chelator retains ^{212}Bi in drug

PERSPECTIVE THERAPEUTICS

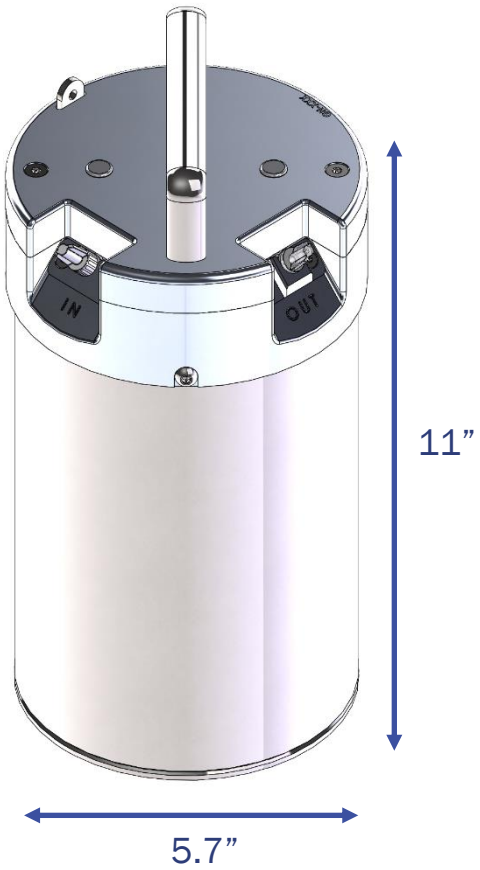
^{212}Pb Isotope Purification Without Just-in-time Irradiation

Simple chemical separation technology of natural decay products de-risks supply chain



PERSPECTIVE THERAPEUTICS

^{212}Pb Supply via Reusable Desktop Isotope Generator



VMT-α-GEN

- Extensive feedstock from nuclear and mining waste material
- Long-term supply contract secured with US DOE
- On demand daily doses
  - Auto-regenerates overnight
  - ~1 week shelf life

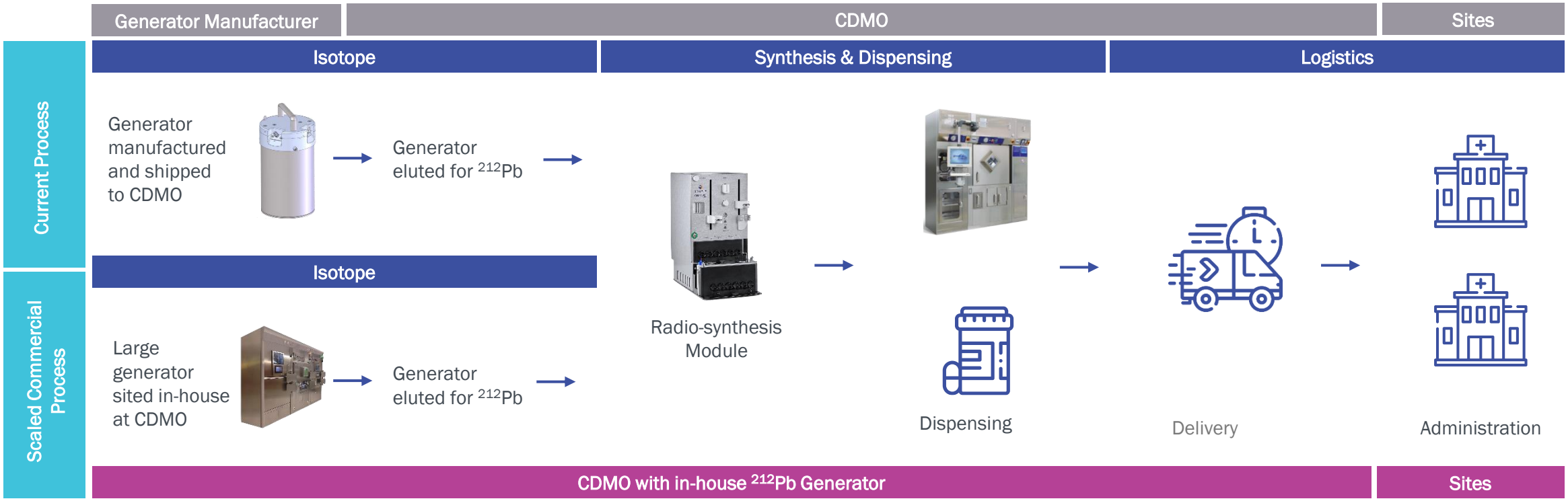
Small, Elegant ^{212}Pb Isotope Generator

- Integrated lead shielded containment
- Simple inlet and outlet ports
- Radioactive feedstock for nearly 300 generators fits in a small vial

PERSPECTIVE THERAPEUTICS

Scalable Manufacturing and Distribution Logistics

Perspective's plan to flexibly scale manufacturing to commercial levels (100,000+ doses per year)



- Commercial supply will require the use of an isotope production system of larger scale than the current $^{224}Ra/^{212}Pb$ generators
- The current isotope separation process remains highly scalable with larger activity levels
- Regional CDMOs will have capabilities to expand capacity as needed as more ^{212}Pb products come on-line

PERSPECTIVE THERAPEUTICS

Isotope Decay Chain Dictates Supply, Purification, Manufacturing & Logistics

Naturally Occurring Isotope Decay – No Irradiation Processes Required

^{228}Th
Thorium
1.9 y

- Central continental supply
- Eluted weekly for ^{224}Ra

^{224}Ra
Radium
3.6 d

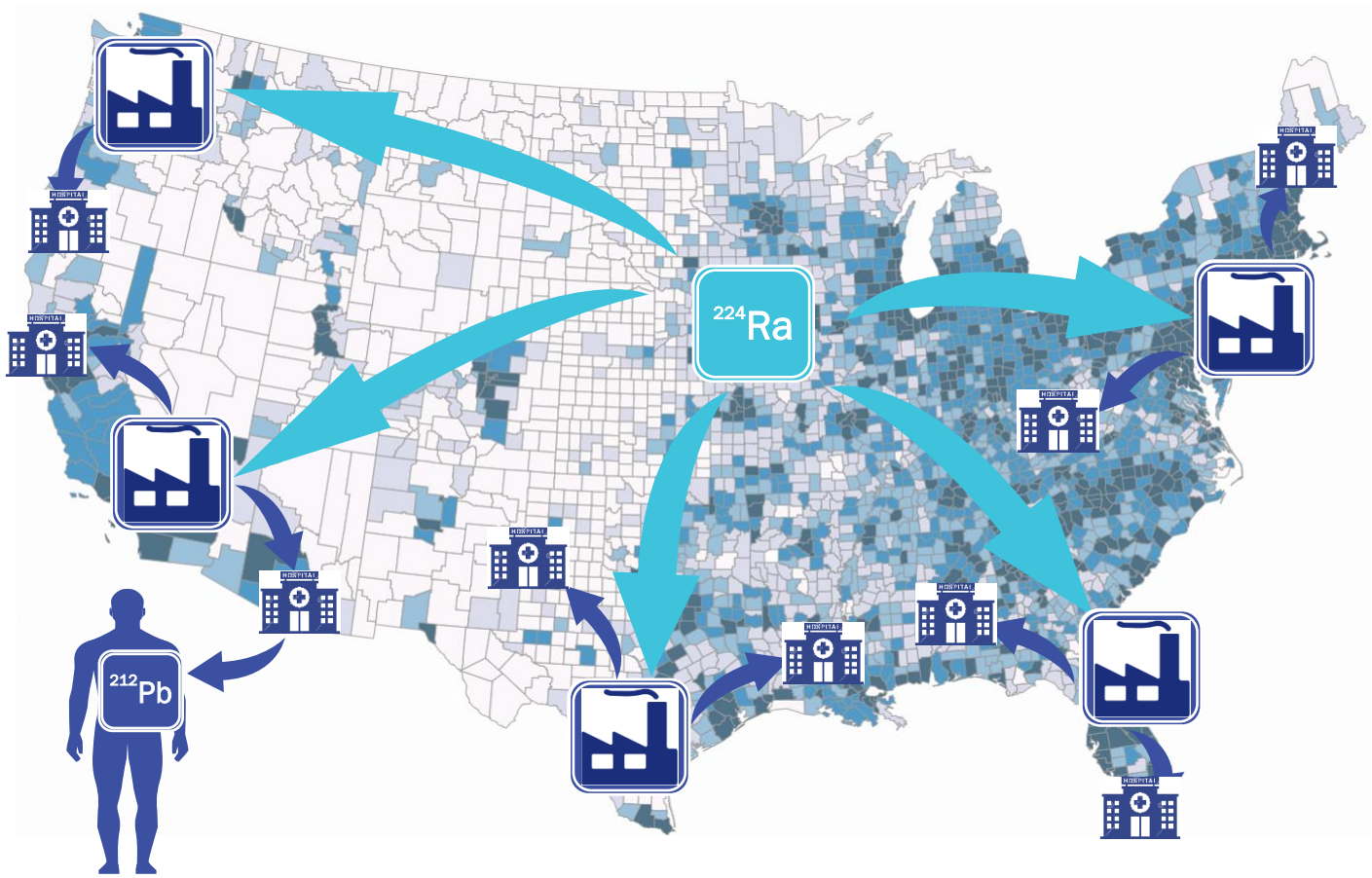
- Distributed continentally
- Eluted daily for ^{212}Pb

^{212}Pb
Lead
10.6 h

- Daily manufacture of finished doses
- Leverages existing networks for logistics

^{212}Bi
Bismuth
61 m

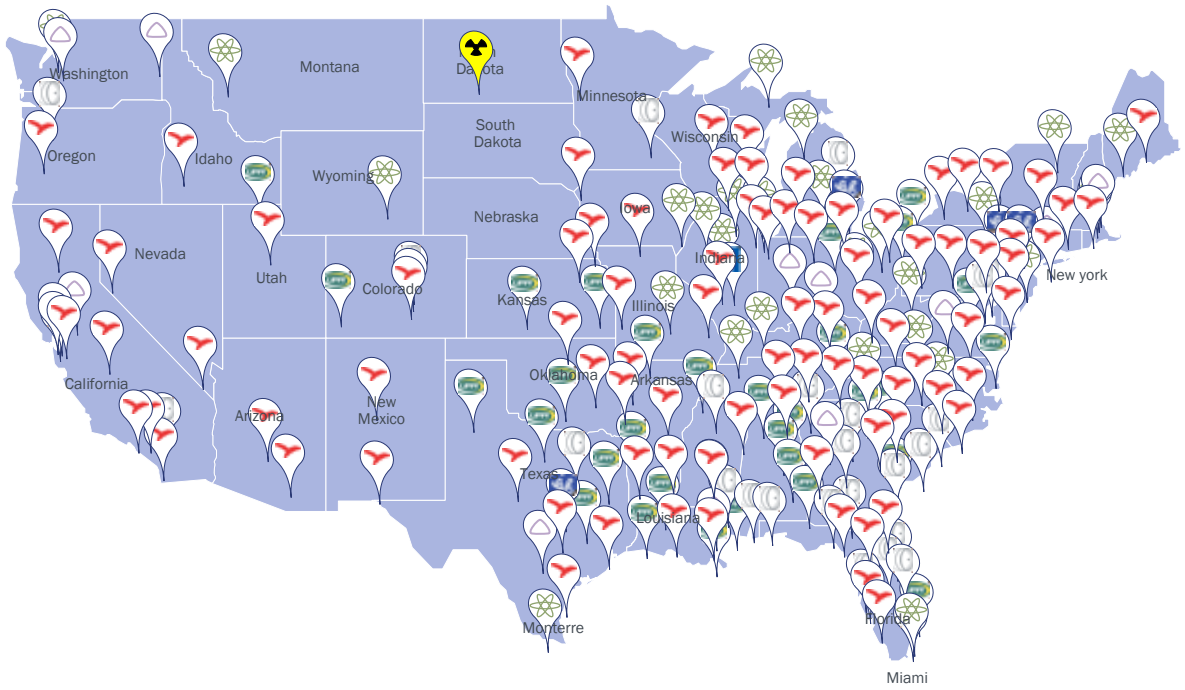
- ^{212}Pb acts as *in vivo* “nanogenerator” of alphas



Infrastructure and Distribution Networks for Radiopharmaceuticals are Mature

Existing radiopharmacies have established logistics for distributed supply

Map of US Radiopharmacies[1]



- There were 40+ million diagnostic nuclear medicine procedures performed in the US in in 2022
- Multiple networks exist in a competitive environment of 300+ radiopharmacies
- Distribution logistics are mature and well-developed
- Many of these diagnostic products have much shorter half-lives than ^{212}Pb
- Radiopharmaceutical revenues are expected to reach between $14 and $33 billion by 2031, driven by therapeutics

The technology, infrastructure, logistics, market, clinical demand, and regulatory pathways for Perspective's products are mature/growing and will be ready for scaled commercial production and distribution of ^{212}Pb-based radiotherapeutics

[1] https://nuclear.pharmacy.purdue.edu/nukeinus

PERSPECTIVE THERAPEUTICS

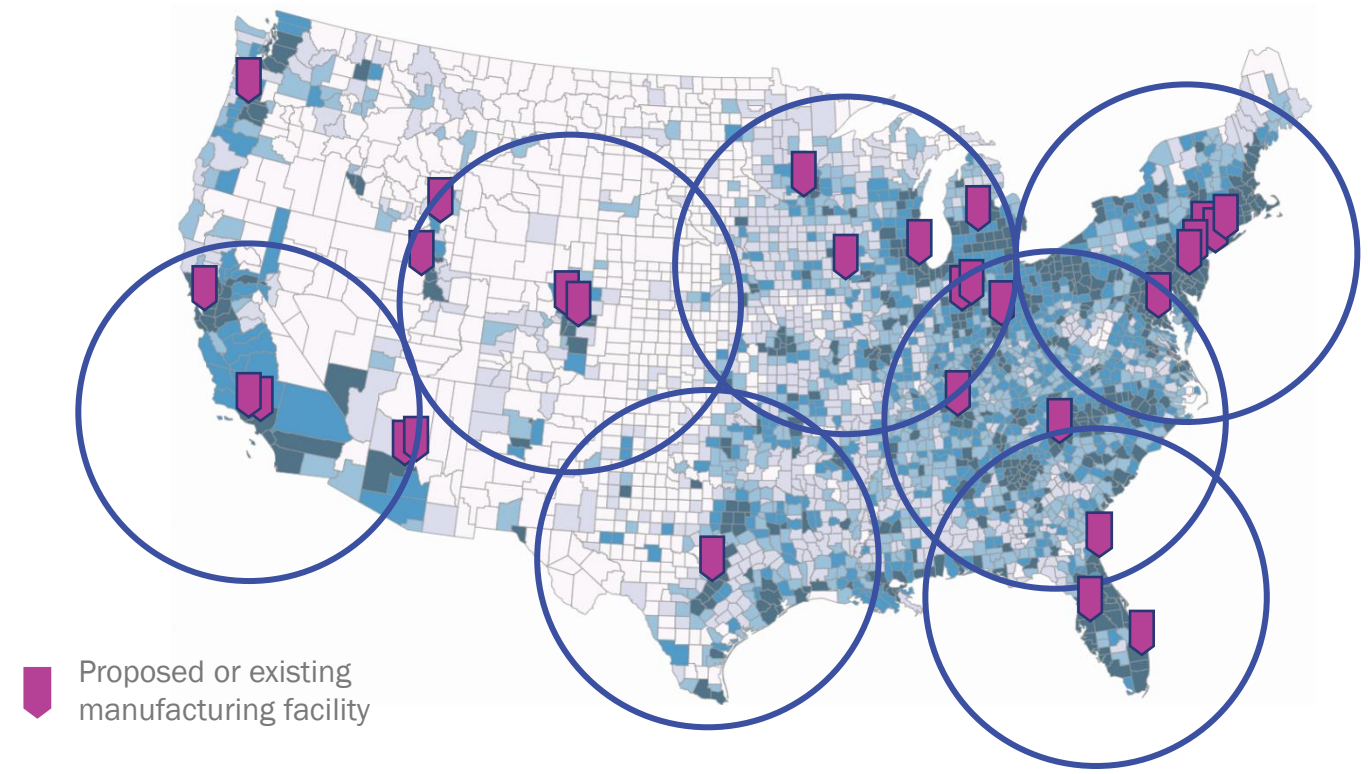
Regional Manufacturing Allows Commercialization of ^{212}Pb-labeled Finished Products

Limited number of sites allows for "network effect" to ensure robust supply chain

Location	Radius 11 hr – 400 miles
Coralville, IA	51 m
New York, NY	75 m
Los Angeles, CA	46 m
Austin, TX	32 m
Atlanta, GA	57 m
Central Florida, FL	25 m

Top 6 sites cover nearly 300 million people within a one half-life (11 hr) delivery radius[1]

Products can also be driven further or flown as necessary



Circles represent distribution radii for facilities already producing Perspective products or **scheduled to produce within next 18 months**

[1] Company estimates

PERSPECTIVE THERAPEUTICS

Strong Intellectual Property Portfolio

Fully Licensed University/Perspective-owned IP

4 provisional patents

- Composition of Matter and Use radiometal separations technology, novel pan-cancer product , generator technologies (U.S., E.U., Australia)

3 non-provisional patent applications

- Composition of Matter and Use VMT-α-NET, chelator, and novel pan-cancer product (U.S., E.U., Australia)

2 issued patents - Expiry in 2037

- Composition of matter and use on melanoma targeting peptides (U.S.) including VMT01/02 and Pb-Specific-Chelator (PSC) (U.S., E.U., Australia)

IP Portfolio covers all aspects of radiopharmaceutical value chain

Potential for Orphan Drug Designation

Potential for U.S. FDA Priority Review Voucher: VMT-α-NET is a candidate for pediatric neuroblastoma indication

Appendix

Our Mission

Treating cancer from the inside out

We are developing game-changing ***Precision Medicine Therapeutics*** which harness the power of targeted ***Alpha-Particle Radiotherapies*** that make an impactful difference for cancer patients and the clinicians who treat them.

Who We Are

Perspective Therapeutics (NYSE:CATX) is a clinical stage **precision medicine company**, debuting as a public company in 2023.

With a broad pipeline and **two prioritized lead programs** in clinic, we are disrupting traditional radiation therapy treatment for cancer though developing a new class of ***image guided alpha-particle radiotherapies*** treatments for the most challenging cancers. With an initial focus on **neuroendocrine tumors (NETs)** and **metastatic melanoma**, we have a robust discovery platform to advance our pipeline into the clinic further.

Perspective's personalized theranostic approach arms physicians with companion imaging diagnostics, capturing personalized information about a patient's cancer in the process which can then be used to guide precise radiation therapy, killing cancers from the inside out.

Perspective's core technology hinges on **alpha (α) particle radiation** which deliver large amounts of radioactive energy very specifically to tumors, irreparably damaging DNA and reliably killing the targeted tumor cells.

We believe the use of alpha-particles provides numerous benefits over currently used beta-particle radiotherapies. Alpha-particles generate **more energy** and travel a shorter distance compared to beta-particles, making them **more cytotoxic**, while reducing their effects on healthy tissue.

α-Particles Have Superior Tumor Killing Properties vs. β-Particles

More Powerful Effects Than Approved β Therapy

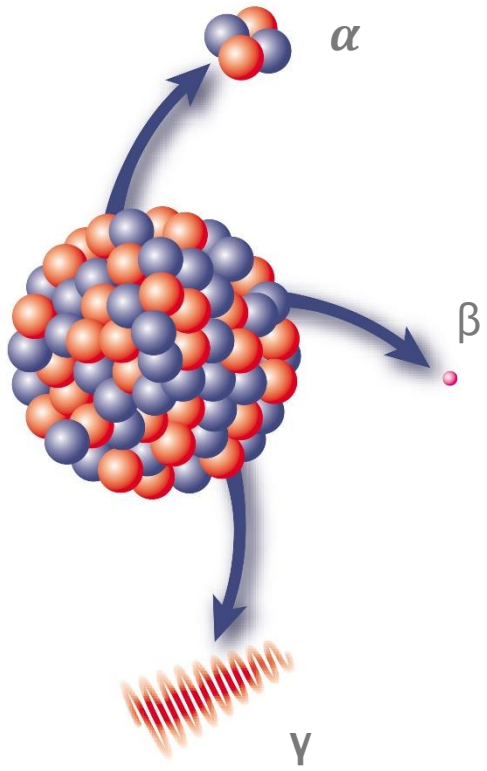
Higher atomic mass
Lethal double-stranded DNA breaks
DNA repair mechanisms overwhelmed

Precision Delivery Provides Targeted Cell Destruction

Deposit energy over 3-5 cell diameters vs. beta particles (up to 200 cells)

Anti-Tumor Immune Response[1]

Evidence for antitumor response alone or in combination with immunotherapies
Consistent with “Abscopal effect” observed with external beam radiation therapy



α-particles are >7,000-fold greater in atomic mass

[1]Li et al., Cancers, Jul 22;13(15), 2021

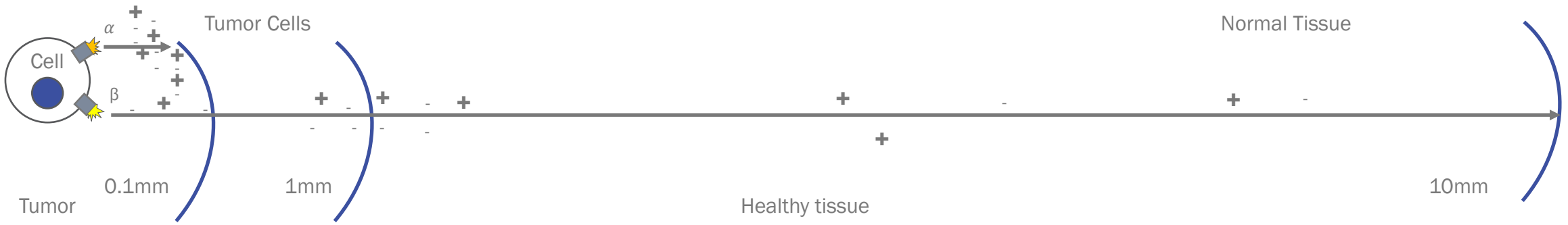
PERSPECTIVE THERAPEUTICS

Lead-212 (^{212}Pb): The Optimal Therapeutic Isotope

Greater Therapeutic Energy Expected to Improve Outcome with Better Safety

Alpha particle range (up to 3 cell diameters)

Beta range (up to 200 cell diameters)



The destructive energy of an alpha particle is deposited within several cell diameters.
A beta particle spreads its lower energy over a longer range

PERSPECTIVE THERAPEUTICS

Lead (Pb): The Ideal Theranostic Isotope

Ideal Theranostic Requirements	Solutions: $^{203/212}$Pb & Perspective Chelator
Ideal agreement between imaging and therapeutic compounds	^{203}Pb and ^{212}Pb matched pair
Readily available isotope	Generator produced
Ideal chelator	Proprietary chelator carries 0 net charge
Rapid clearance from blood	Conjugation to small peptides
High tumor retention @24 hours	High and sustained binding
Short t-½ gives rapid effect while minimizing environmental impact	Low hospital and patient impact for radiation safety
No unsafe daughter isotopes	Decays to cold Pb

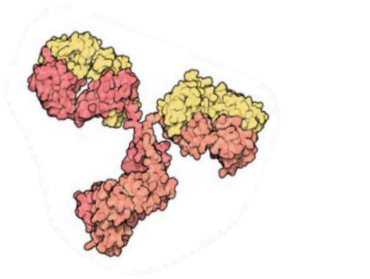
PERSPECTIVE THERAPEUTICS

Peptides are Ideal Ligands for Radiopharmaceutical Therapy

Monoclonal antibodies

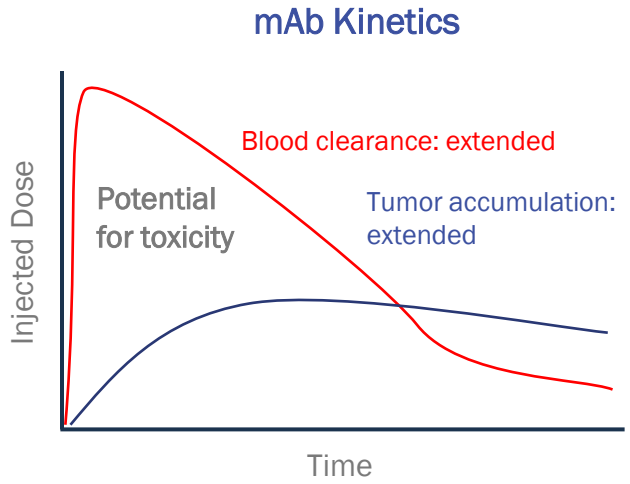
Kinetics	
Tumor penetration:	Low
Clearance:	Hepatobiliary (liver)
Biological ½ Life	Long
Target affinity	High
Accumulation time:	Extended
Stability	Questionable

Production	
Manufacturing:	Complex biological
CoGs:	High



10 nanometers

mAb Size: 150 kDa



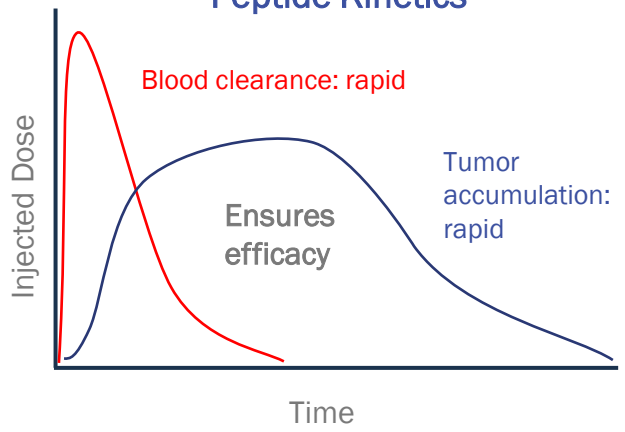
Peptides

Kinetics	
Tumor penetration:	High
Clearance:	Renal (kidneys)
Biological ½ Life	Short
Target affinity	High
Accumulation time:	Rapid
Stability	Excellent

Production	
Manufacturing:	Synthetic
CoGs:	Very low

10 nanometers

Peptide Size: 1.5 kDa



PERSPECTIVE THERAPEUTICS

VMT-α-NET is Developed to Address the Unmet Need in NETs

Current Standard of Care limited to subset of NETs patients

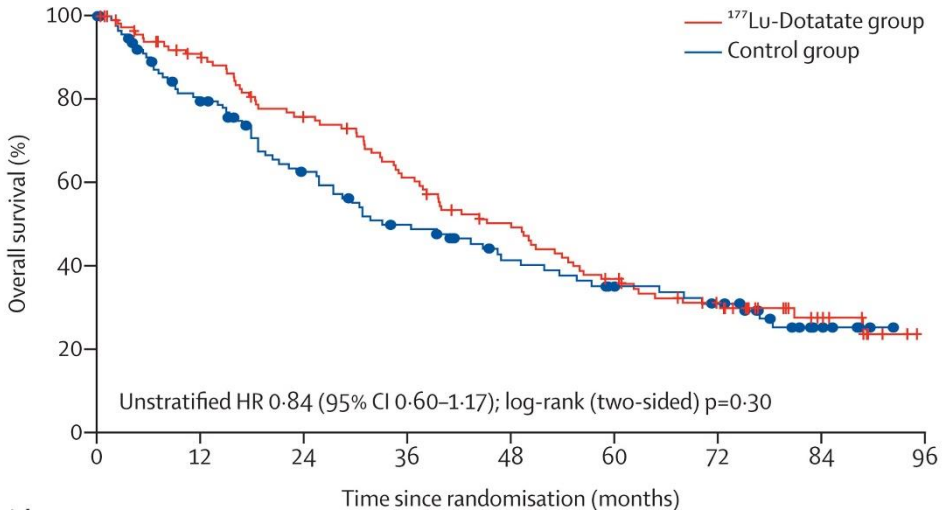
Significant unmet need:

- **~12K** new diagnoses annually in the US[1]
- **~175,000+** people are living with this diagnosis in the US[1]

Market Opportunity

- Projected to be $2.9 billion+ in 2029[2]
- Existing radiopharmaceutical treatment LUTATHERA® (Novartis) has an overall response rate (ORR) of **only 13–17%, and no overall survival (OS) benefit**[3]

NETTER-1 Study: Final overall survival[4]

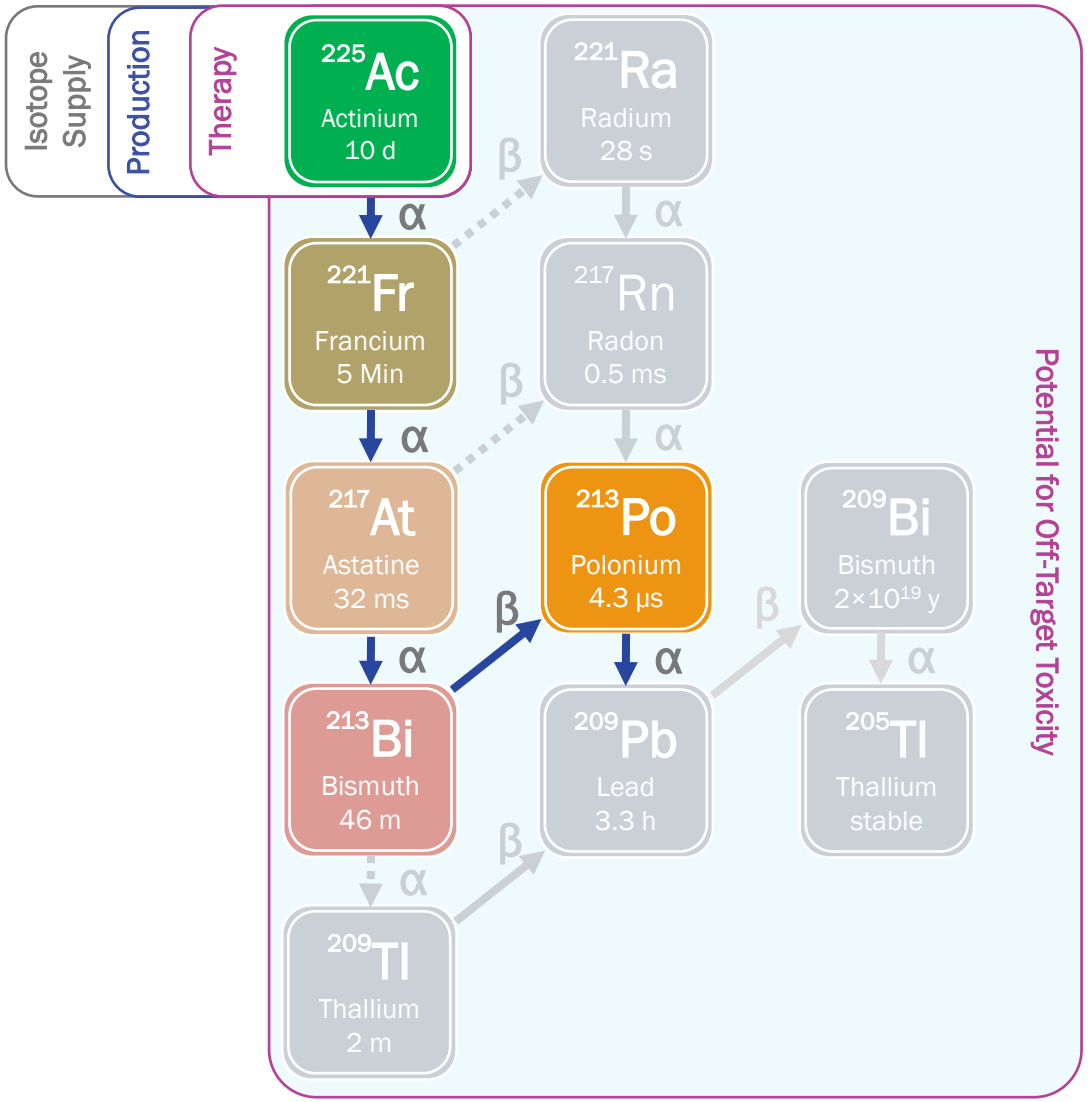


- Treatment depends on the type of tumor. Some approaches may include surgery, radiation, and chemotherapy
- Broad acknowledgment that targeted alpha therapies are needed to improve care[5]

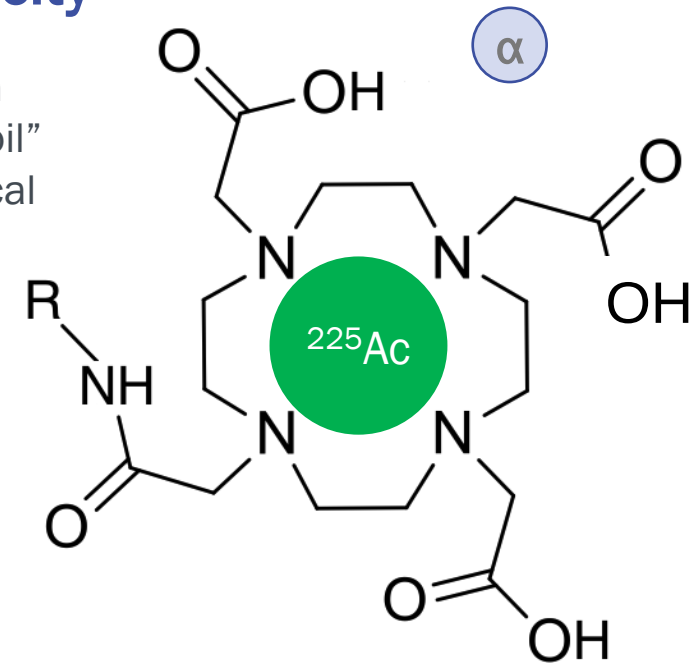
[1]cancer.net; ; [2]www.futuremarketinsights.com/reports/neuroendocrine-carcinoma-market; [3]LUTATHERA PI; [4]Strosberg et al (2021); [5]Navalkissoor et al (2019)

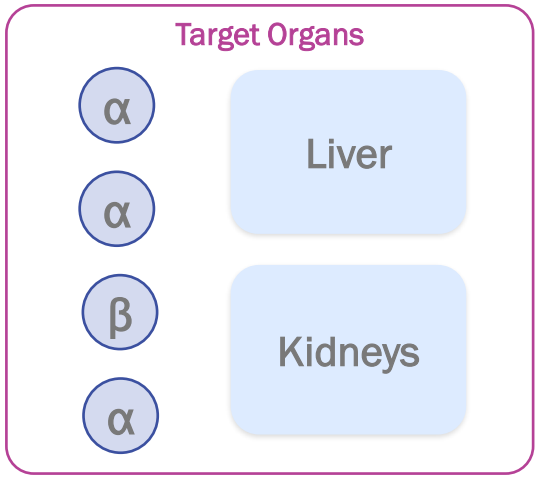
PERSPECTIVE THERAPEUTICS

^{225}Ac Isotope Decay Chain and Potential for Off-Target Toxicity



Alpha-particle emission imparts sufficient "recoil" energy to break chemical bonds

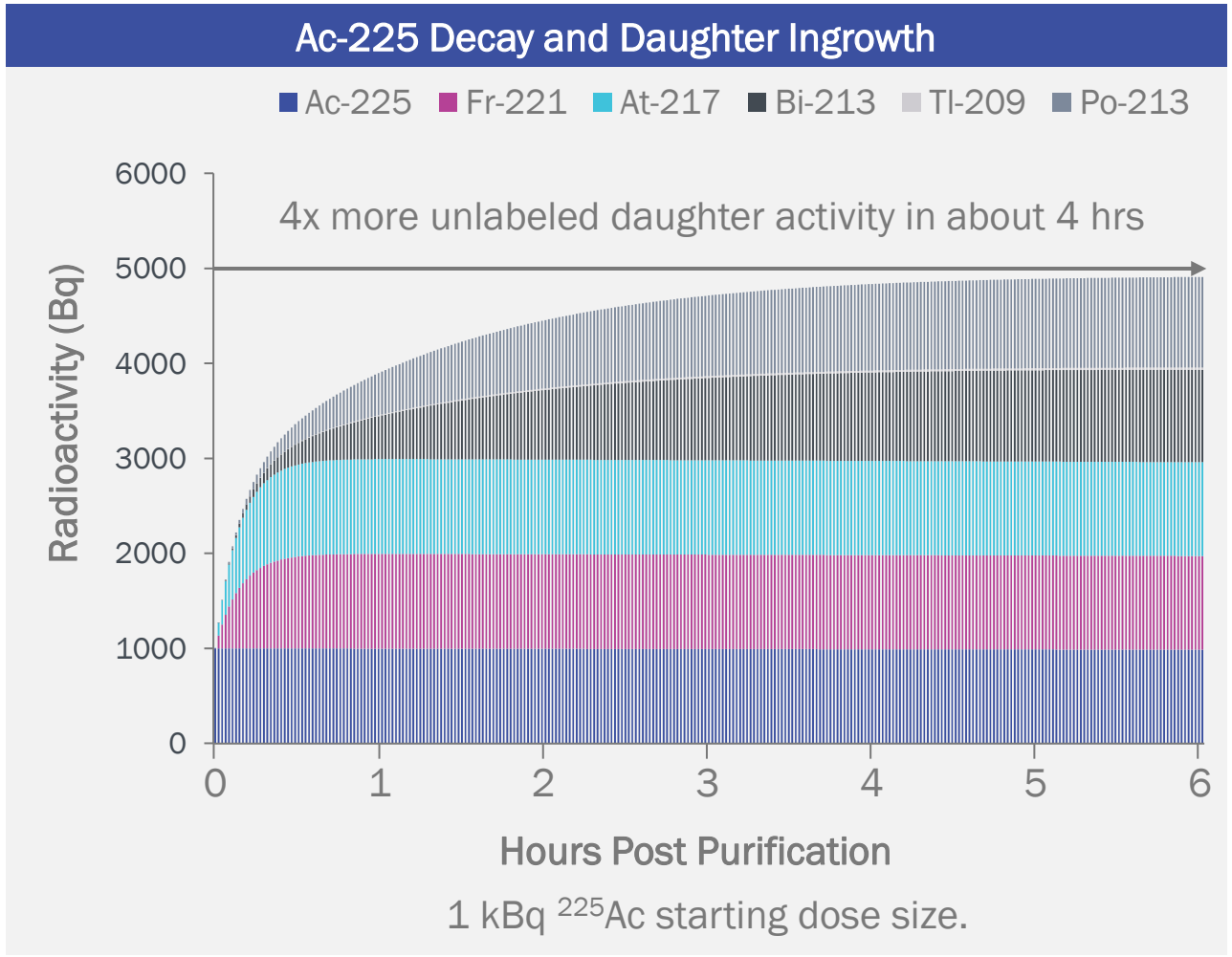


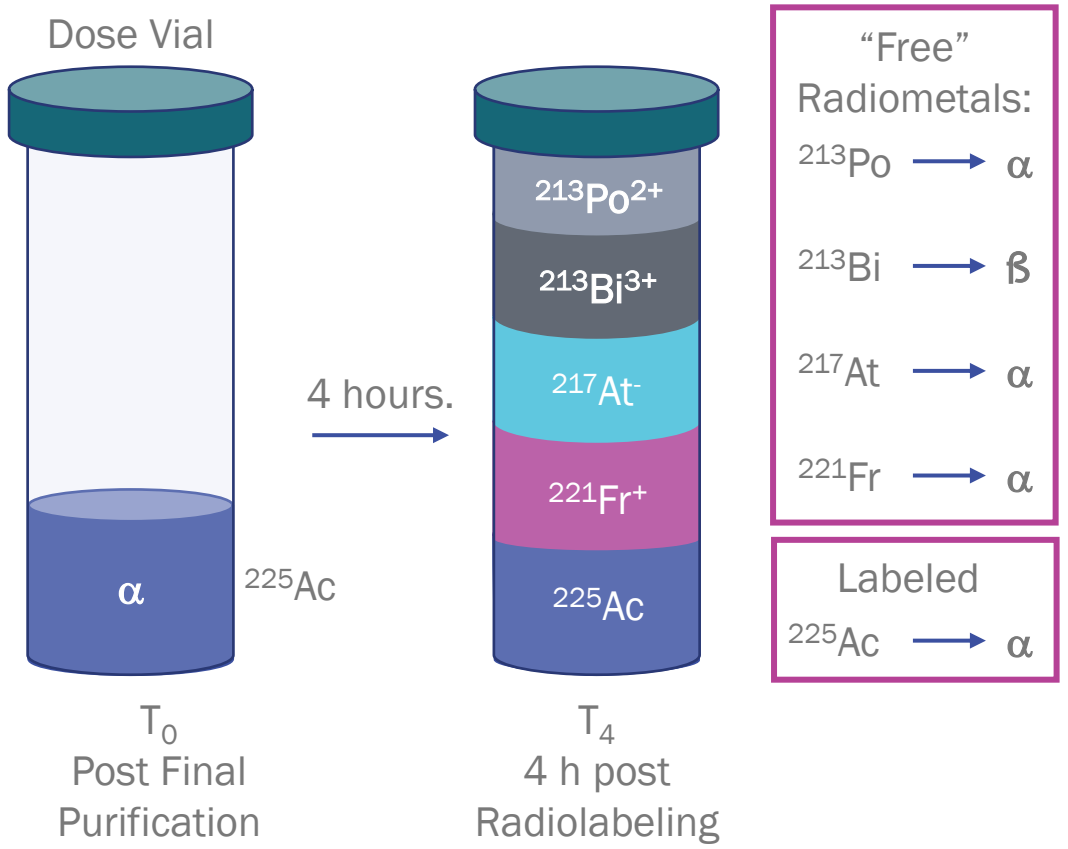


PERSPECTIVE THERAPEUTICS

Isotope: Decay chain – Product implications

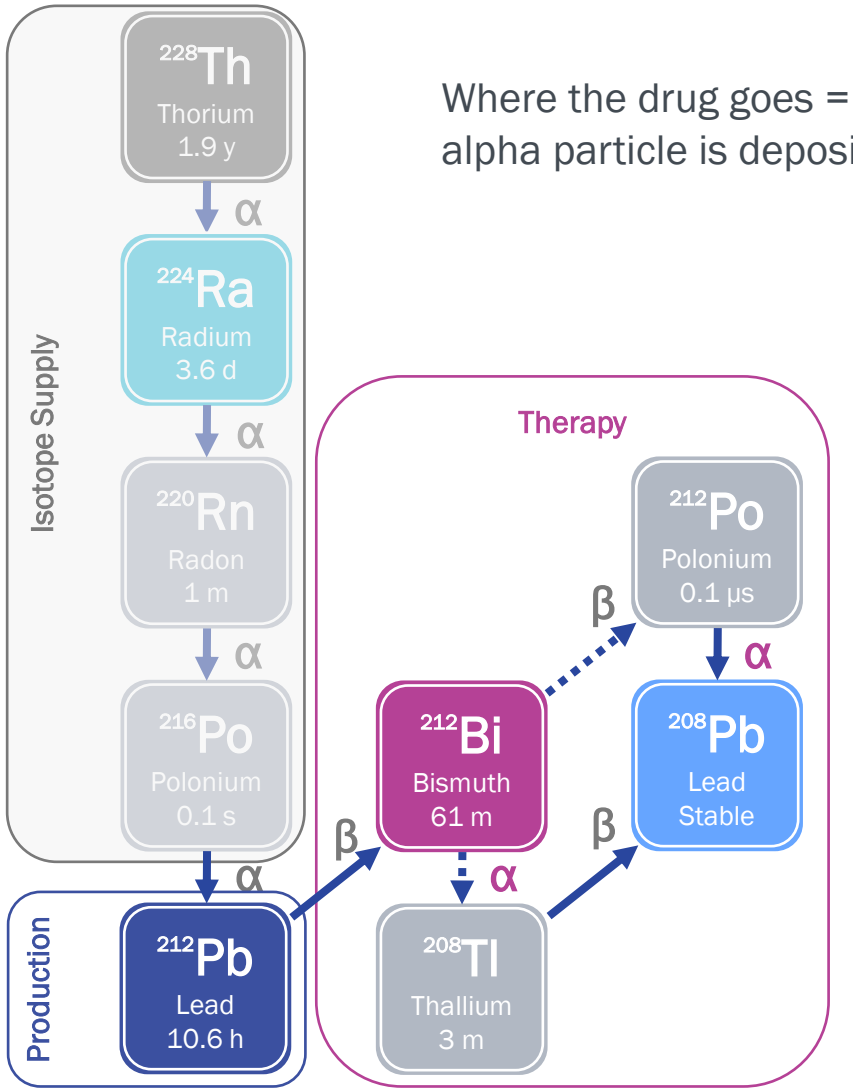
Post final radiolabeling and purification, alpha and beta emitting daughters of ^{225}Ac build up fast



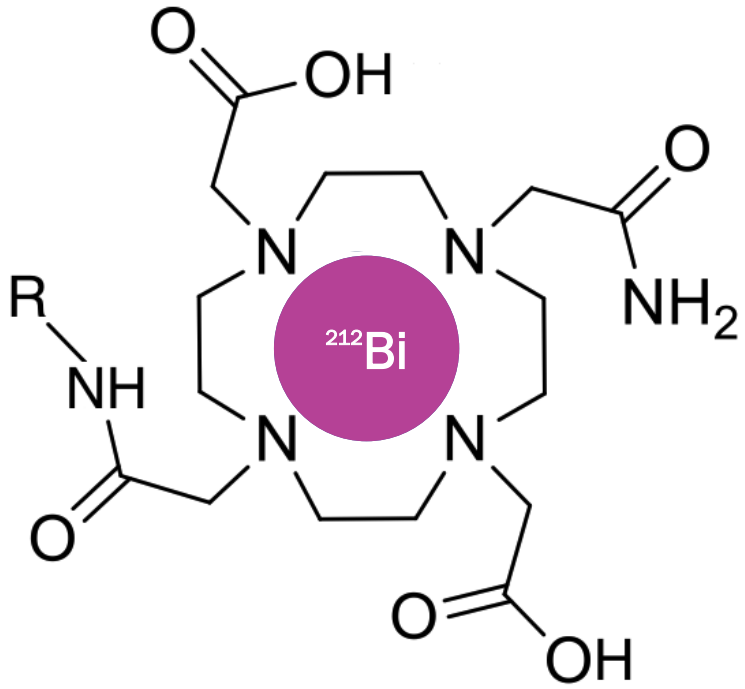


PERSPECTIVE THERAPEUTICS

^{212}Pb Isotope Decay Chain and Importance of the Pb-Specific Chelator



Where the drug goes = where the alpha particle is deposited



- Perspective's proprietary chelator retains 98% of ^{212}Bi after transition in drug formulation
- Generic chelators leak the ^{212}Bi alpha-emitting daughter up to 36%[1]

[1]Mirzadeh et al., Radiochimica Acta, 1993

PERSPECTIVE THERAPEUTICS

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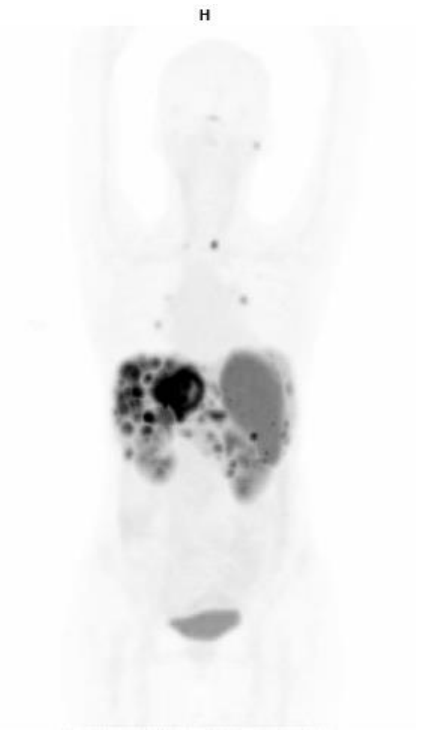
Appendix: VMT-α-NET

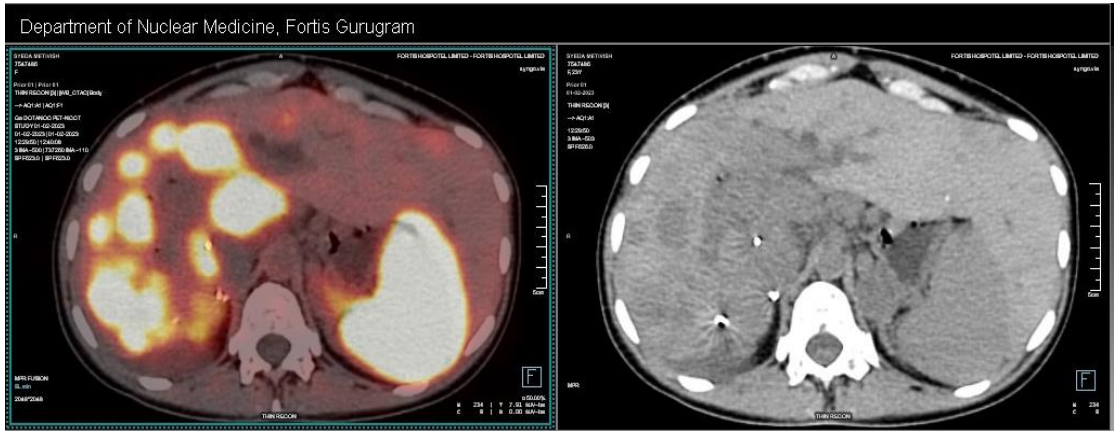
Additional Data from Clinical Investigation at Fortis Memorial Research Institute, Gurgaon, India

Significant Tumor Response After Two Doses

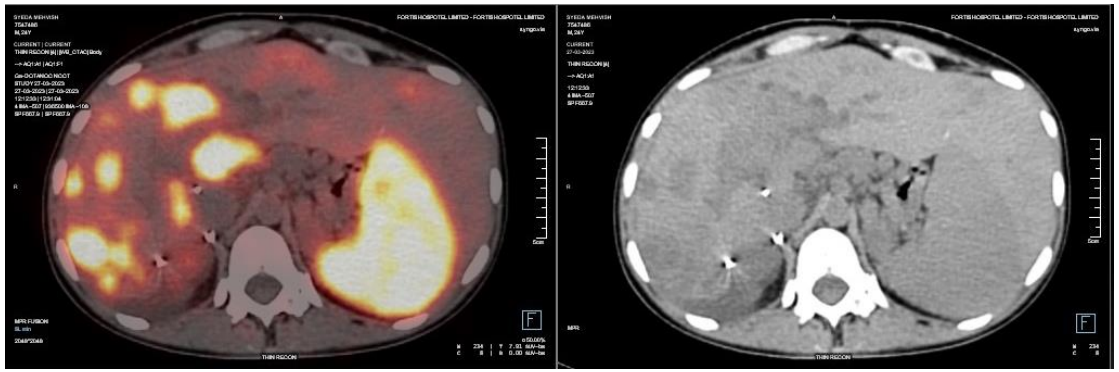
Patient 3: Metastatic NET Pancreas with Liver Metastases

MIP image Before Treatment



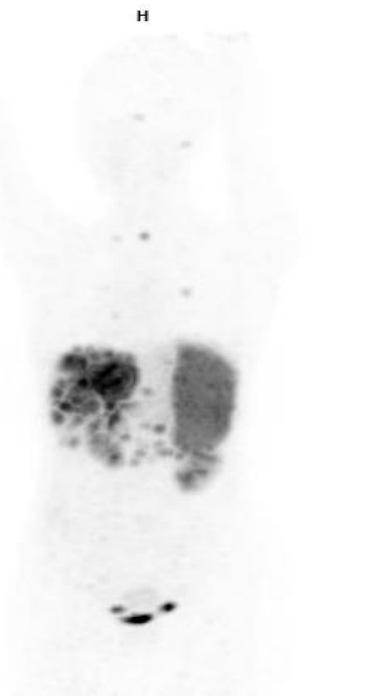


Liver Metastases before treatment



Liver Metastases after treatment with two doses

MIP image After 2nd Treatment



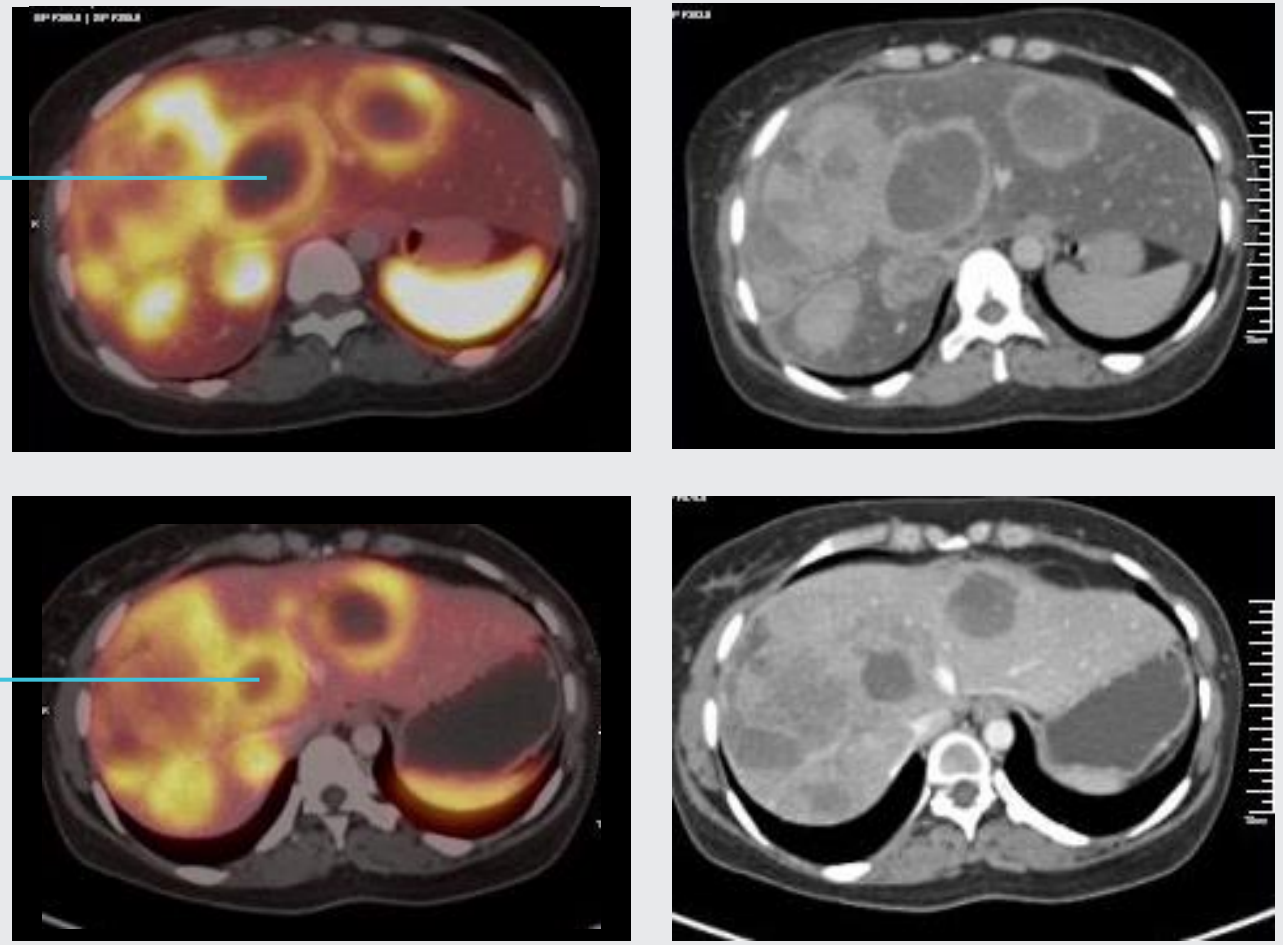
PERSPECTIVE THERAPEUTICS

Reduction in Size of Necrotic Masses After 2 Doses

Patient 5: Pancreatic NET

Tumor Before Treatment

Tumor After Treatment

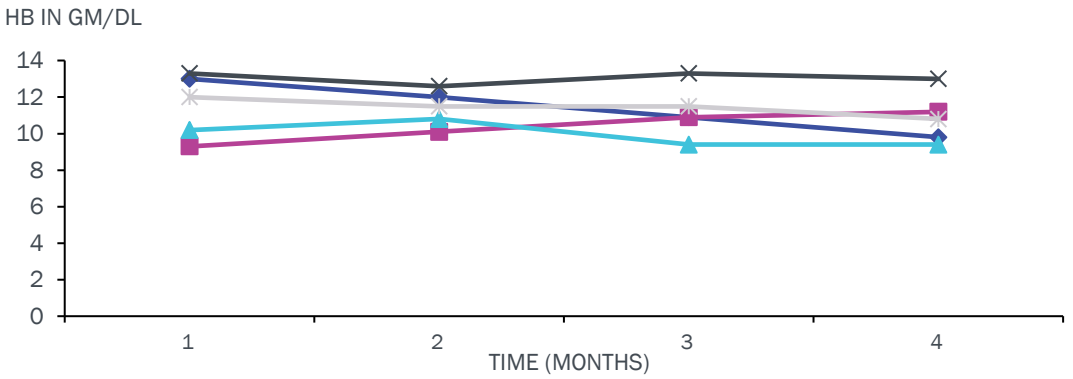


PERSPECTIVE THERAPEUTICS

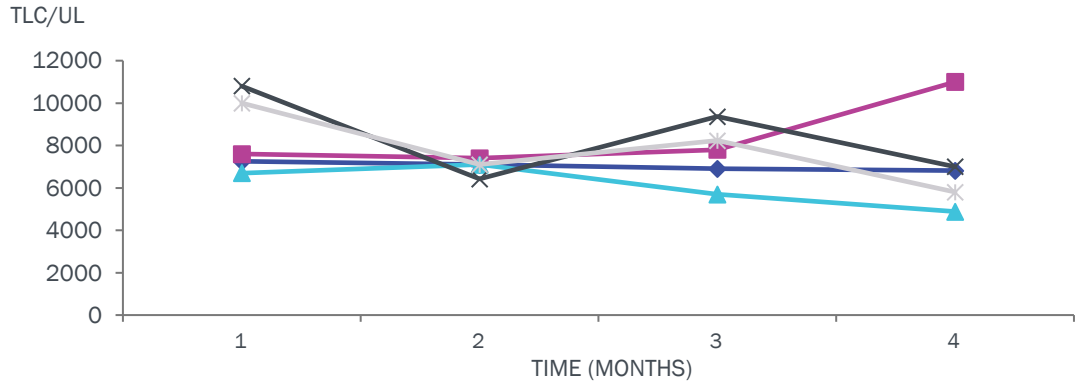
Favorable Safety and Tolerability Profile

Four Months Post-Treatment (5 Patients)

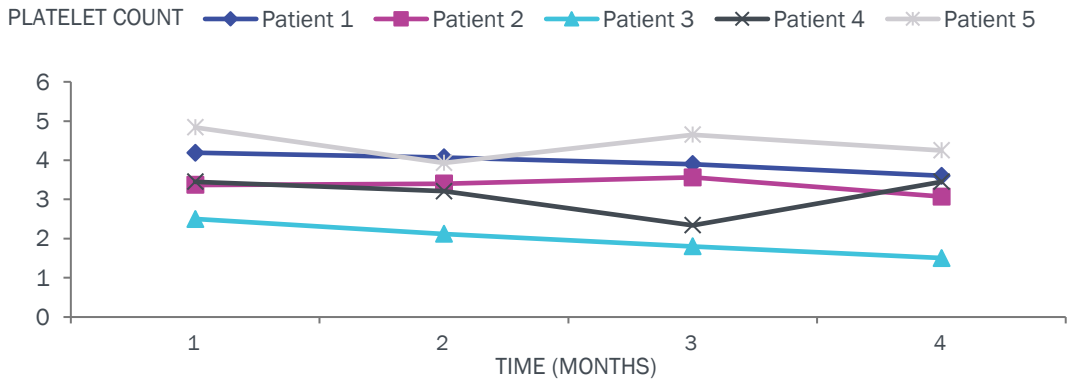
Hemoglobin Levels



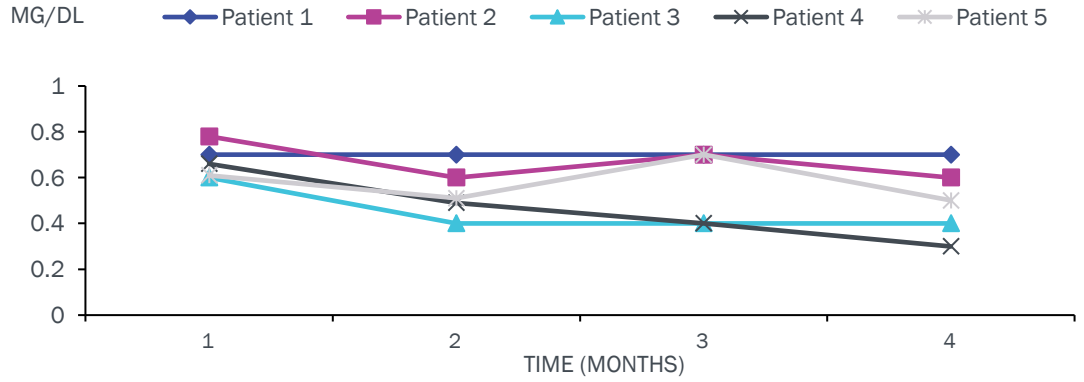
Total Leukocyte Count



Platelet Counts



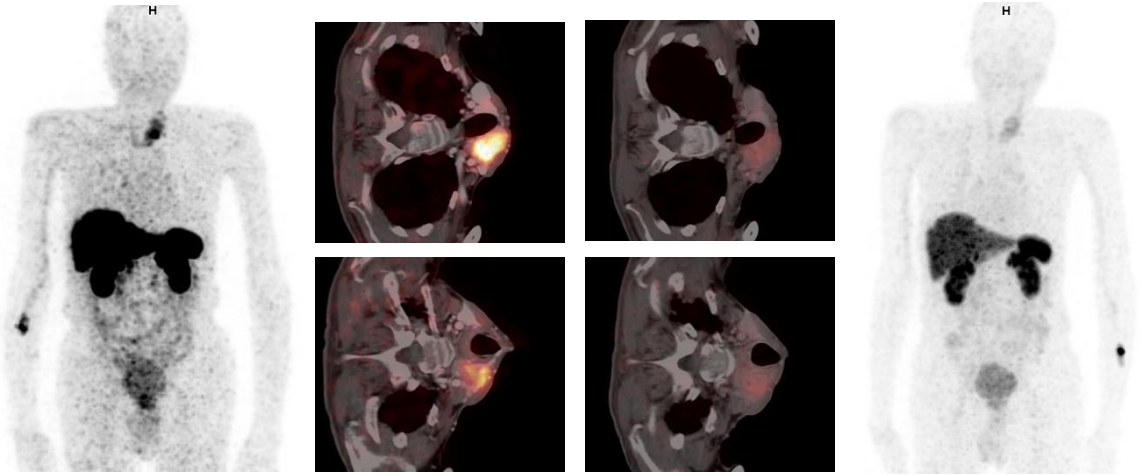
Serum Creatinine



PERSPECTiVE THERAPEUTICS

Serious Adverse Event in Patient 2

Myelodysplastic syndrome (MDS) Unrelated to Study Drug



Pre-Therapy

Post-Therapy

Patient Profile

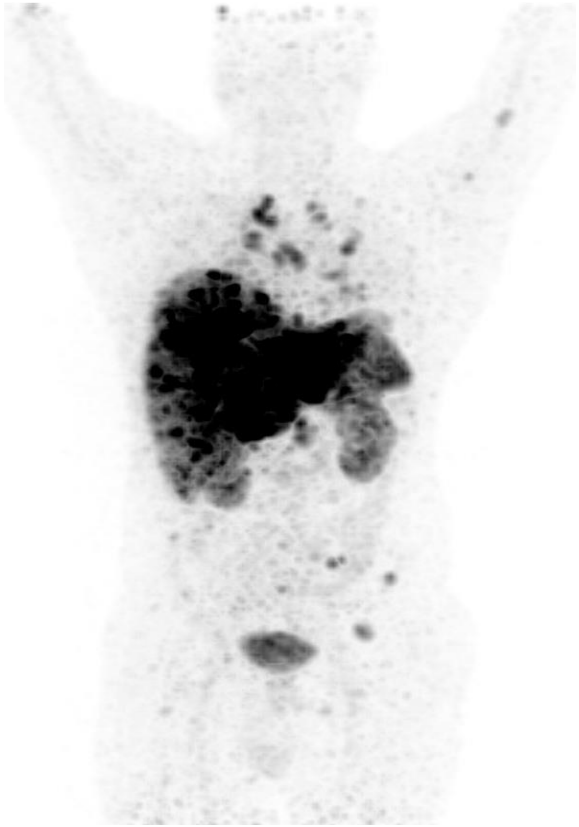
- 79 year-male
- Metastatic Medullary Carcinoma thyroid
- Disease progression of TKI's
- Received total 3 doses of [^{212}Pb]VMT-α-NET therapy at an interval of 8 weeks (Cumulative dose 9.6 mCi)
- Shows Partial response for disease till date.
- **Developed MDS on routine blood investigations**
- **Found positive for BCR-ABL gene**

No causal relationship could be established

PERSPECTIVE THERAPEUTICS

Serious Adverse Event in Patient 6

Acute Cardiac Event Unrelated to Study Drug



Significant tumor burden

Patient Profile

- 25 year-male
- Metastatic NET-pancreas
- **Long-standing disease** (>6 years duration)
- **Heavily pre-treated** with Inj. Sandostatin and 4 cycles of ^{177}Lu-DOTATATE along with CAPTEM regimen
- **Received 1 dose of [^{212}Pb]VMT-α-NET therapy (3.5 mCi)**
- **Acute Cardiac Event** (Possible Carcinoid Heart Syndrome)
- Significant Tumor Burden - Possible Disease Progression

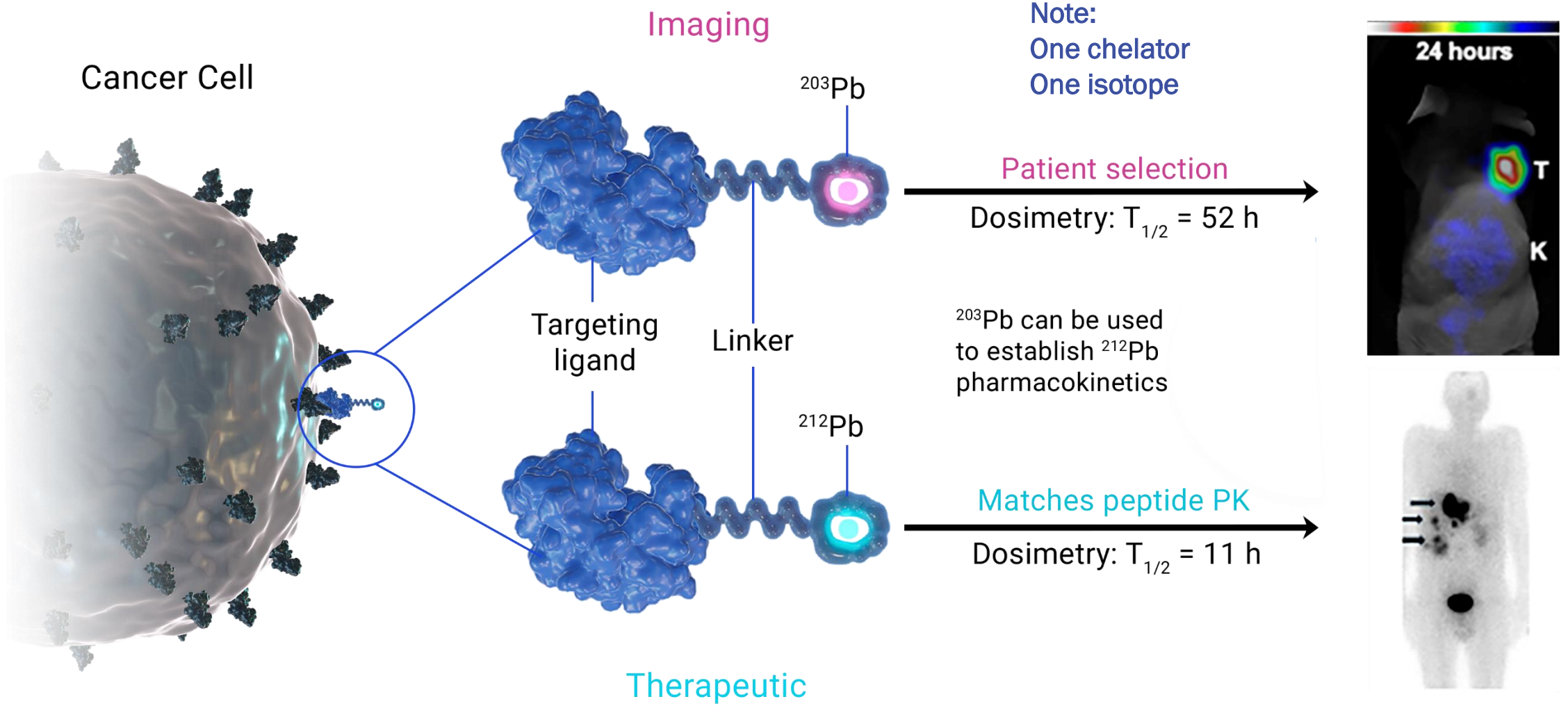
No causal relationship could be established

PERSPECTIVE THERAPEUTICS

Appendix: Prostate Cancer Program – PSV401

Typical Theranostic Approach : One Molecule, One Chelator, One Isotope

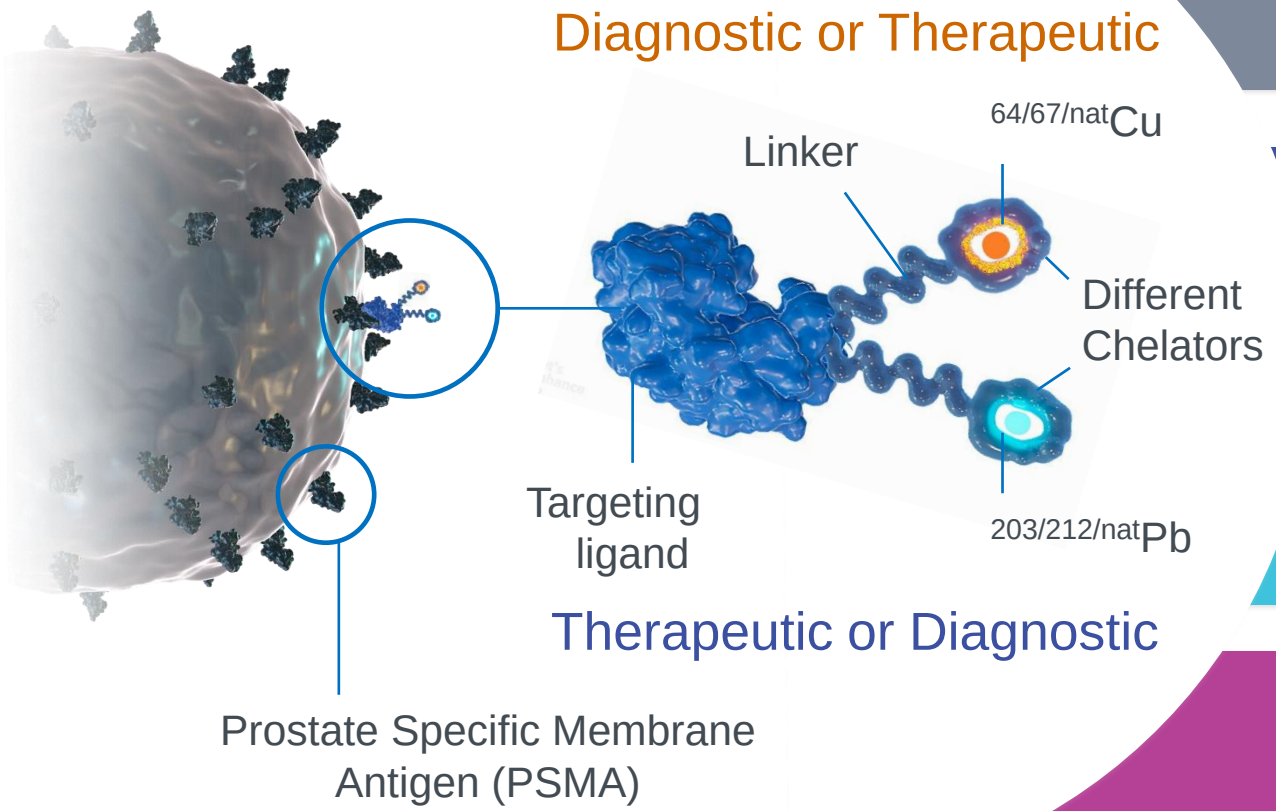
Separate But Chemically Identical Molecules Labeled with Either ^{203}Pb or ^{212}Pb for Imaging and Treatment, Respectively



PERSPECTIVE THERAPEUTICS

PSV401 DoubLET[1,2]: One Molecule, Two Chelators, Four Possible Isotopes

One Molecule Labelled with Two Elements at Once, with Isotope Selection Determining Diagnostic or Therapeutic



Two chelators on one targeting ligand
Each can be labeled with stable or radioactive atoms

Enables the same molecular entity to treat with lead-212 (^{212}Pb) and image by PET with Copper-64 (^{64}Cu)

Co-labeled with non-radioactive Pb provides identical biodistribution, allowing reliable dosimetry using ^{64}Cu

Technology Licensed from Mayo Clinic January 2024[1]
IND-enabling studies underway
First in Human data expected in 2024

[1]PSV401 is also known in the literature/Mayo documentation as NSN24901 or AlphaPET-PSMA01. 2. DoubLET trademark and patent pending

PERSPECTiVE THERAPEUTICS

PSV401 Has Potential to be "Best-In-Class" Prostate Cancer Targeted Alpha Therapy

Current Standard of Care with Beta-Based Radiopharmaceutical Therapy (RPT) Still Requires Improvement

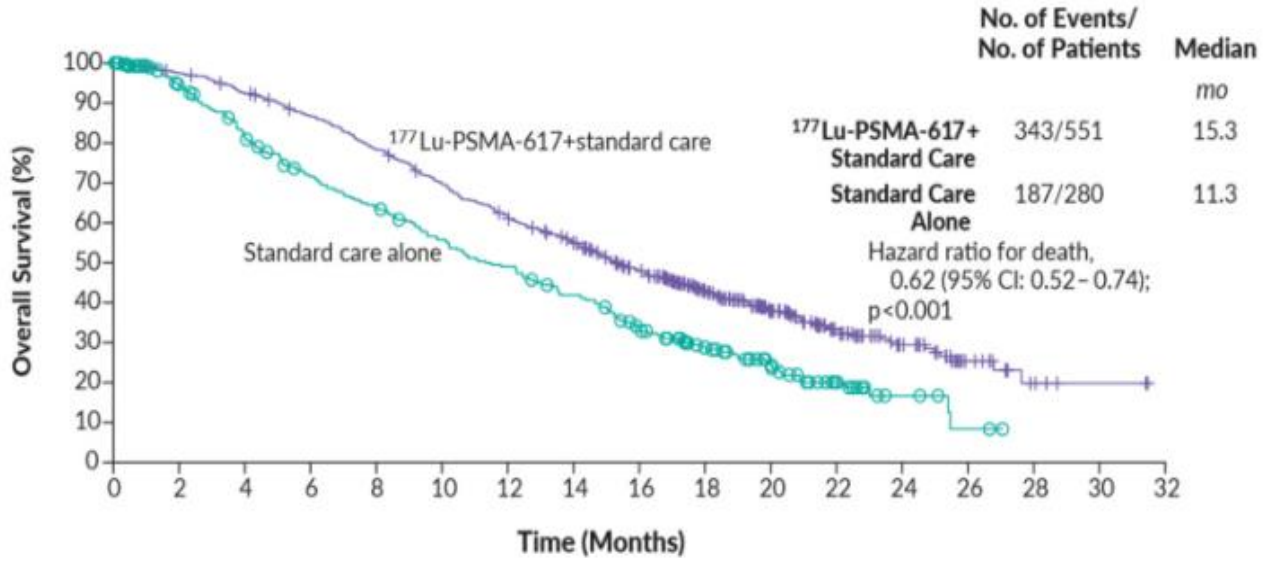
Significant Unmet Need:

- **~288K** new diagnoses annually in the US[1]
- **~3.3M+** men living with this diagnosis in the US[1]
- **~35K** deaths annually in the US[1]

Market Opportunity:

- Projected to be $27.5 billion+ in 2032[2]
- Existing radiopharmaceutical treatment PLUVICTO® (Novartis) has an overall response rate (ORR) of **30%, and an overall survival (OS) benefit of 4 months**[3]
- PLUVICTO® expected to reach sales ($1B plus) in only 2nd year on market[4]

VISION Study: Overall survival[5]



- Treatment depends on the stage of tumor. Typical approaches include surgery, radiation, chemotherapy and androgen-deprivation therapy
- Broad acknowledgment that targeted alpha therapies are needed to improve care[6]
- Salivary gland toxicity (xerostomia) is a common adverse side effect of PSMA targeted RPT (≅ 40%) and negatively impacts quality of life[7]

[1]www.cancer.org/cancer/types/prostate-cancer/about/key-statistics.html; [2]www.precedenceresearch.com/prostate-cancer-market; [3]PLUVICTO PI; [4]Novartis AG Q3 2023 Earnings Call Transcript [5]Sartor et al (2021); [6]www.urotoday.com/clinical-trials/from-the-editor/142064-targeted-alpha-therapy-for-prostate-cancer-the-next-generation-of-alpha-emitting-radiopharmaceuticals.html; [7]Langbein et al (2022)

PERSPECTIVE THERAPEUTICS

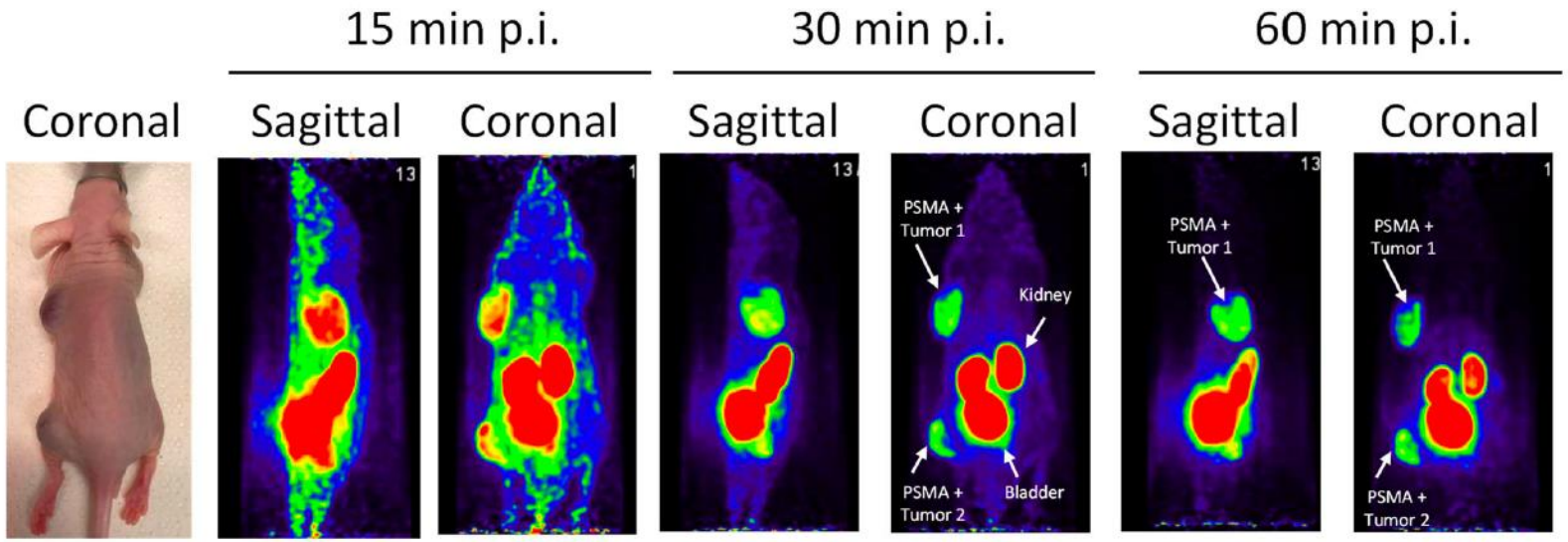
PSV401: Preclinical ^{64}Cu PET Imaging Data Showing Tumor Uptake

Rapid Tumor Uptake and Effective Renal Clearance with Radioactive Imaging Isotope [1]

Key Takeaways

PSMA+ LNCaP tumor model suggests [^{64}Cu]PSV401 targets tumor rapidly – suitable for diagnostic or treatment monitoring

Imaging product also indicates effective renal clearance and no other dose-limiting organs, essential for targeted alpha particle therapy

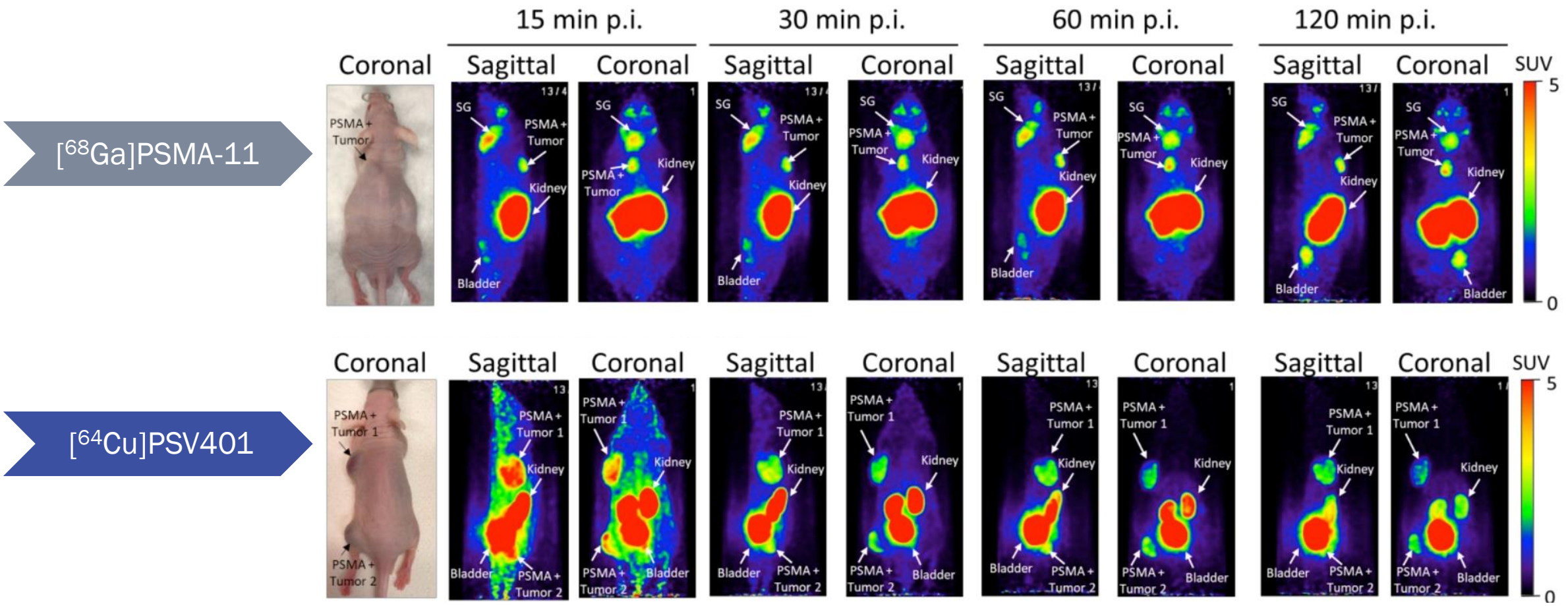


[1]Johnson et al., RPT Interest Group June 7 2023 https://rrp.cancer.gov/working_groups/AlphaPET-RPT_Int_group_lecture.pdf

PERSPECTIVE THERAPEUTICS

PSV401: Preclinical Comparison to Industry Standard[1]

[64Cu]PSV401 Compares Favorably to FDA-Approved Imaging Agent [68Ga]PSMA-11 (ILLUCCIX®, Telix)[2]



Note absence of salivary gland (SG) uptake with PSV401

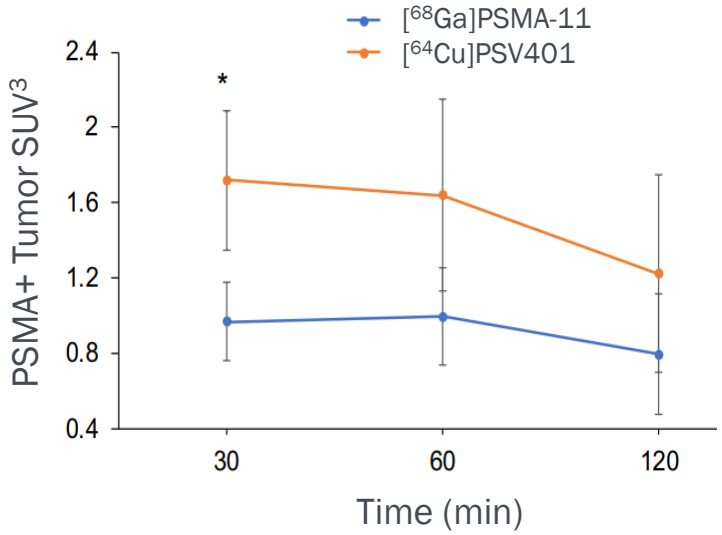
[1]LNCaP tumor athymic nude mice [2]Johnson et al., RPT Interest Group June 7 2023 https://rrp.cancer.gov/working_groups/AlphaPET-RPT_Int_group_lecture.pdf

PERSPECTIVE THERAPEUTICS

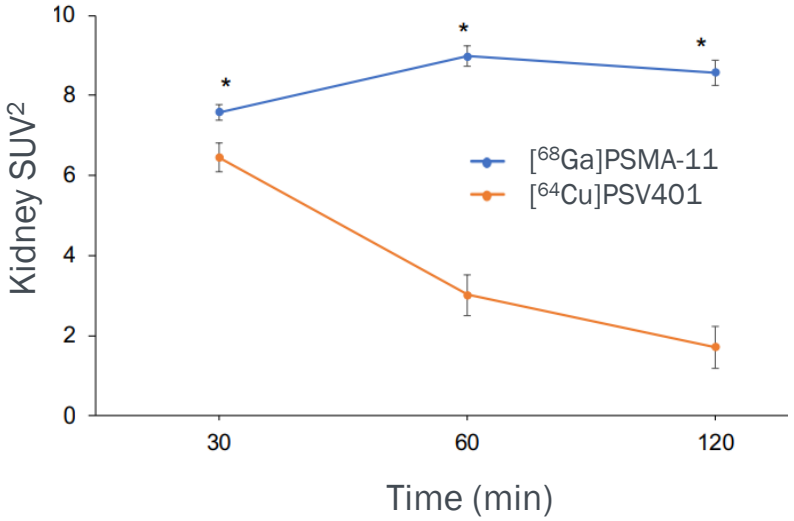
PSV401: Preclinical Comparison to Industry Standard

[^{64}Cu]PSV401 Significantly[1] Improved Uptake/Clearance Compared to [^{68}Ga]PSMA-11[2]

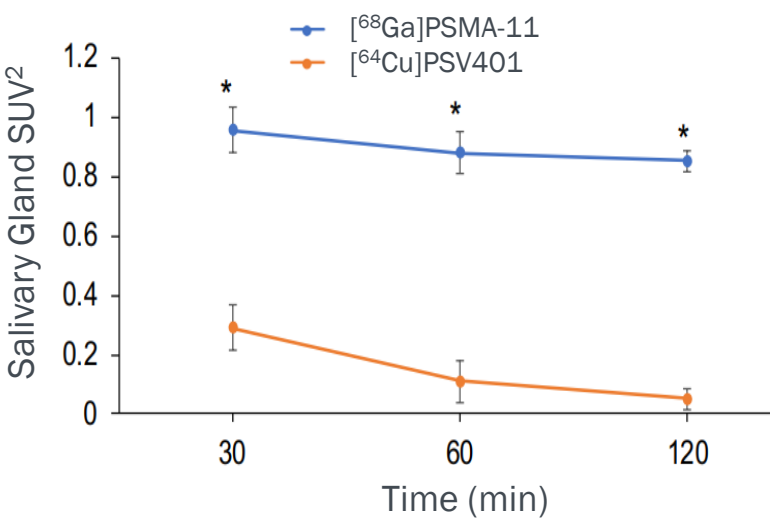
Tumor Retention



Kidney Retention



Salivary Gland Retention



Key Differentiation to Competitors

- Higher tumor accumulation/retention
- Significantly lower salivary gland uptake and retention
- Significantly lower kidney accumulation and retention

Larger therapeutic window (greater efficacy and reduced toxicity)

[1]* indicates $p < 0.05$ [^{64}Cu]PSV401 vs [^{68}Ga]PSMA-11 (all data sets as indicated) [2]Johnson et al., RPT Interest Group June 7 2023 https://rrp.cancer.gov/working_groups/AlphaPET-RPT_Int_group_lecture.pdf; [3]SUV = Standardized Uptake Variable

PERSPECTIVE THERAPEUTICS

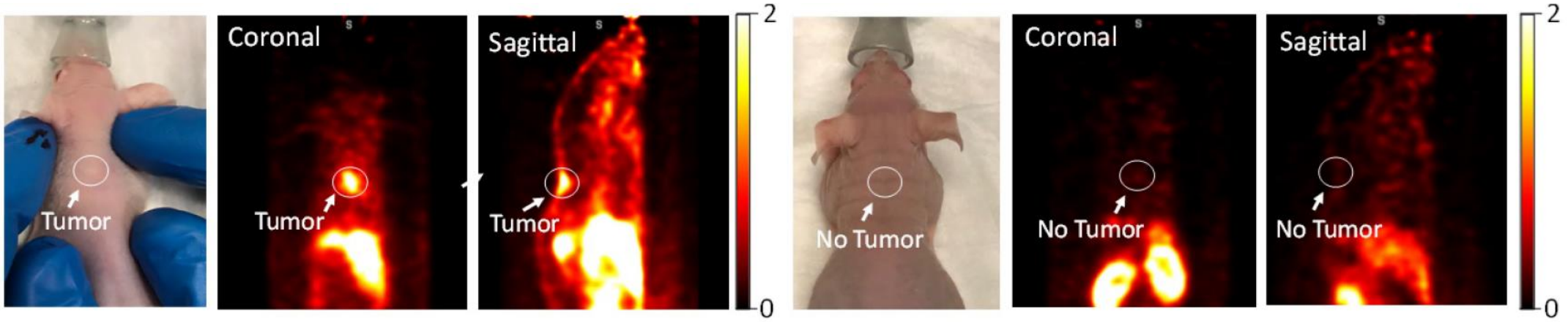
Preclinical [^{212}Pb]PSV401 Therapy

Preliminary [^{212}Pb]PSV401 Data Shows Potential to Effectively Kill Tumors [1]

- All imaging performed with [^{64}Cu]PSV401 microPET
- Treatment of PSMA+ prostate cancer xenograft with [^{212}Pb]PSV401 reduced tumor size 38% in 3 days and complete response after 9 days
- Additional preclinical work underway

2 Days Prior to [^{212}Pb]PSV401

18 Days Post [^{212}Pb]PSV401 Dose



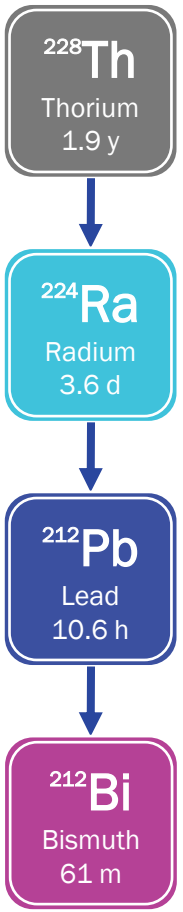
[1]Johnson et al., RPT Interest Group June 7 2023 https://rrp.cancer.gov/working_groups/AlphaPET-RPT_Int_group_lecture.pdf

PERSPECTIVE THERAPEUTICS

Appendix: Manufacturing, Production and Logistics of 212Pb-labeled Therapeutics

Isotope Decay Chain Dictates Supply, Purification, Manufacturing & Logistics

Naturally Occurring Isotope Decay – No Irradiation Processes Required



Plentiful Supply:
Naturally occurring, or
produced as a waste product

- Multiple global suppliers including natural decay
- 2 year half-life allows stockpiling

Chemical Separation:
Allows for Ra-based
generators of ^{212}Pb

- Half-life allows global distribution
- Weekly delivery of ^{224}Ra enables daily ^{212}Pb
- 3.6 day half-life allows local stockpiling

Chemical Separation from ^{224}Ra:
Isotope used for manufacturing
finished product

- Regional finished product manufacturing
- Leverages existing networks for logistics

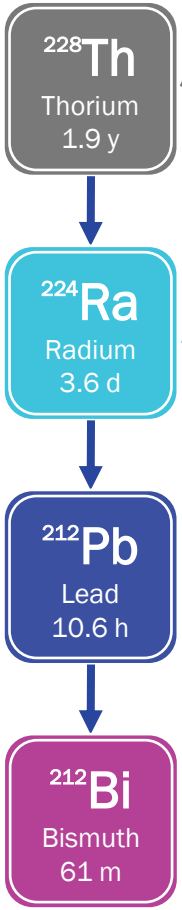
High dose-rate alpha-emitting
therapeutic isotope

- ^{212}Pb acts as *in vivo* “nanogenerator” of alphas
- Perspective’s chelator retains ^{212}Bi in drug

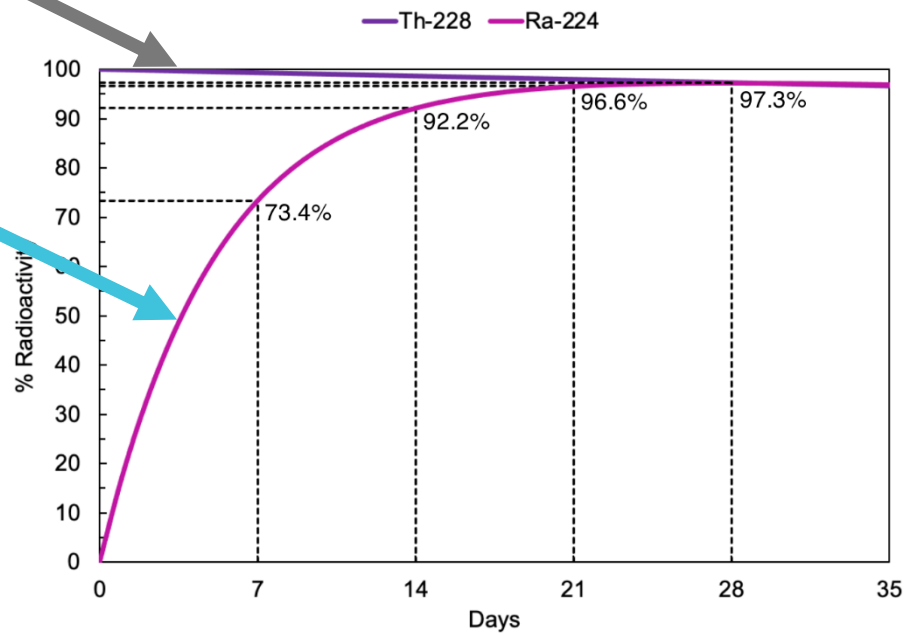
PERSPECTIVE THERAPEUTICS

Parent Isotope Source

Key Isotopes for Supply: ^{228}Th and ^{224}Ra



^{228}Th half-life of 1.9 years allows long term storage and extraction of daughter ^{224}Ra



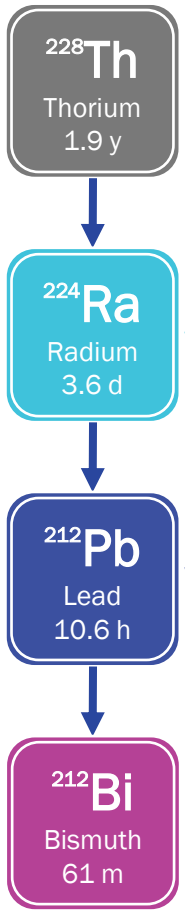
^{224}Ra grows in naturally (without irradiation) from ^{228}Th decay

- Perspective currently has a 10 year supply agreement with US Department of Energy
- Produced as a waste by-product from isotope ^{223}Ra (Xofigo) manufacture
- Irradiation to produce very large quantities (100s of Ci) in a high-flux reactor can be performed every 6-12 months in a single batch, or as needed
- 2 year half-life allows stockpiling and de-risks the supply chain
- 8+ suppliers identified across the globe

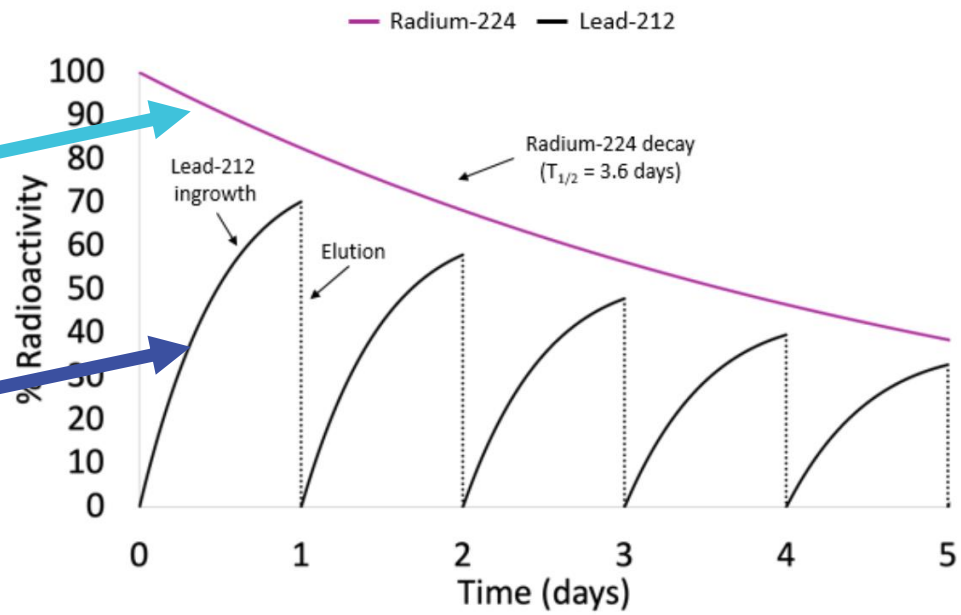
PERSPECTIVE THERAPEUTICS

Flexible and Scalable Isotope Supply

^{224}Ra enables Regional Manufacturing Hubs



^{224}Ra half-life of 3.6 days allows weekly shipments to regional manufacturing sites



^{212}Pb grows in naturally (without irradiation) from ^{224}Ra decay

- Perspective's proprietary VMT-α-GEN enables shipping of isotope and purification of ^{212}Pb in one package, simplifying supply
- VMT-α-GEN generator technology scales for commercial production
- Extremely pure isotope allows straight-forward production process
- Regional manufacturing sites will not require licenses for any long-lived isotopes, reducing costs and waste concerns
- Other ^{212}Pb production processes are possible

PERSPECTIVE THERAPEUTICS

Isotope Decay Chain Dictates Supply, Purification, Manufacturing & Logistics

Naturally Occurring Isotope Decay – No Irradiation Processes Required

^{228}Th
Thorium
1.9 y

- Central continental supply
- Eluted weekly for ^{224}Ra

^{224}Ra
Radium
3.6 d

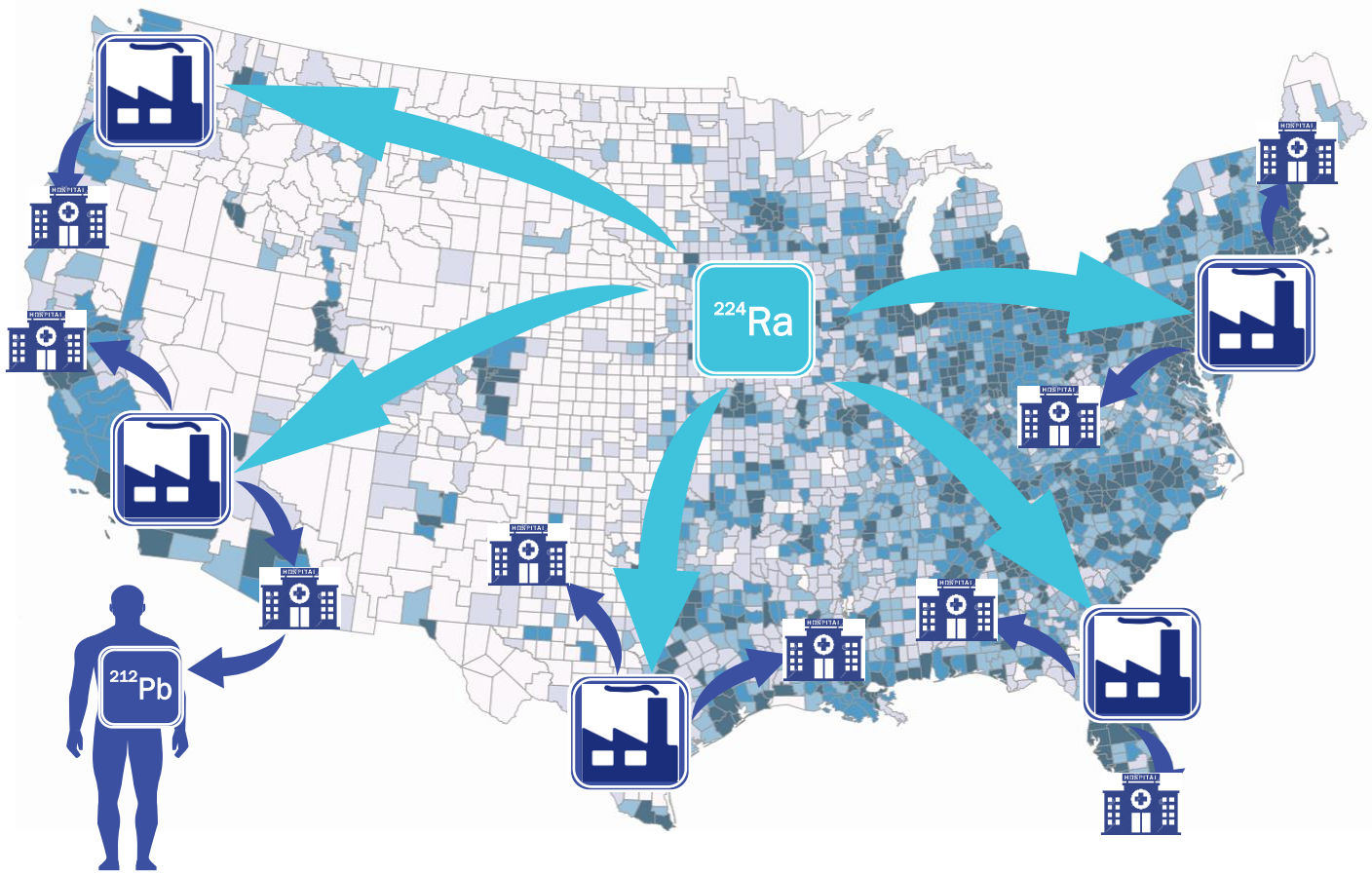
- Distributed continentally
- Eluted daily for ^{212}Pb

^{212}Pb
Lead
10.6 h

- Daily manufacture of finished doses
- Leverages existing networks for logistics

^{212}Bi
Bismuth
61 m

- ^{212}Pb acts as *in vivo* "nanogenerator" of alphas



PERSPECTIVE THERAPEUTICS

^{212}Pb is Plentiful, Storable, Scalable & Suitable for Distributed Logistics

The supply chain is lower-risk and more robust than other therapeutic isotopes

Isotope Source

Naturally occurring in mining waste

Also produced in industrial nuclear processes

Can be made on demand if needed

All other therapeutic isotopes require capital-intensive infrastructure manufacturing processes (irradiation)

Isotope Purification

Parent isotope Thorium-228 can be stored (2 yr half-life)

^{212}Pb purified from 228Th or 224Ra source in simple separation step

VMT-α-GEN enables shipping of isotope and purification of ^{212}Pb in one package

Product Manufacturing

VMT-α-GEN ^{212}Pb generator technology scales for commercial production

Extremely pure isotope allows straight forward manufacturing process

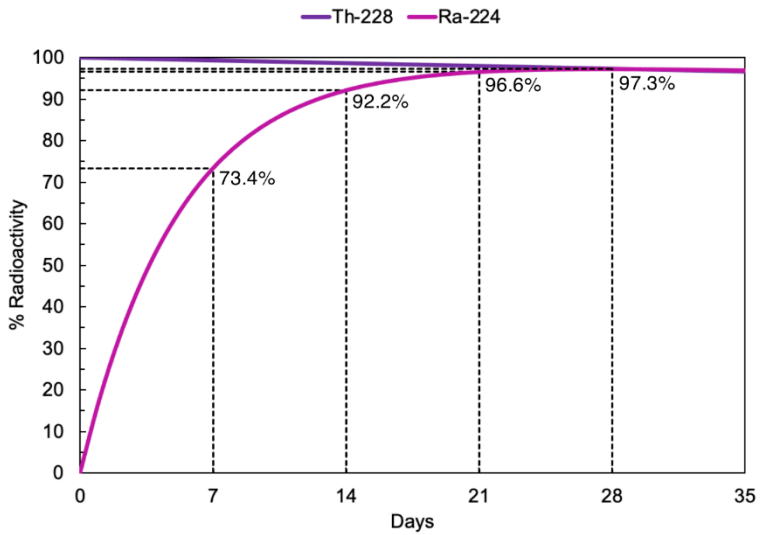
10.5 hr half life of ^{212}Pb allows for robust regional distribution of finished radiopharmaceuticals

PERSPECTIVE THERAPEUTICS

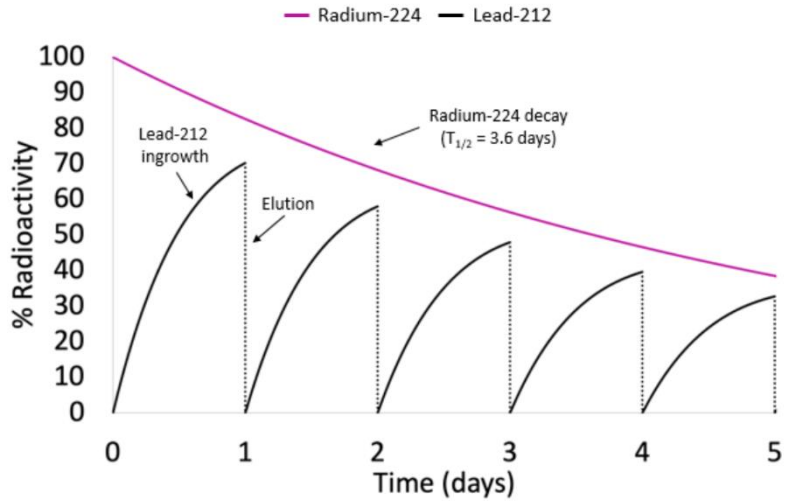
Parent Isotope Source

Key Isotopes for Supply: Th-228 and Ra-224

- Storage of thorium-228 (half-life of 1.9 years) allows for “on-demand” purification of Ra-224 and Pb-212
- Multiple purification/production methods for Th-228 with different starting materials and processes, including Ra-228 generators (half-life 5.7 years)
- Ra-224 (half-life 3.6 days) allows for continental shipping of material to network of finished product manufacturing sites (CDMOs)
- A weekly supply of Ra-224 can be purified daily to produce batches of Pb-212



Ra-224 grows in naturally (without irradiation) from a Th-228 “source”



Pb-212 grows in naturally (without irradiation) from a Ra-224 “source”

PERSPECTIVE THERAPEUTICS

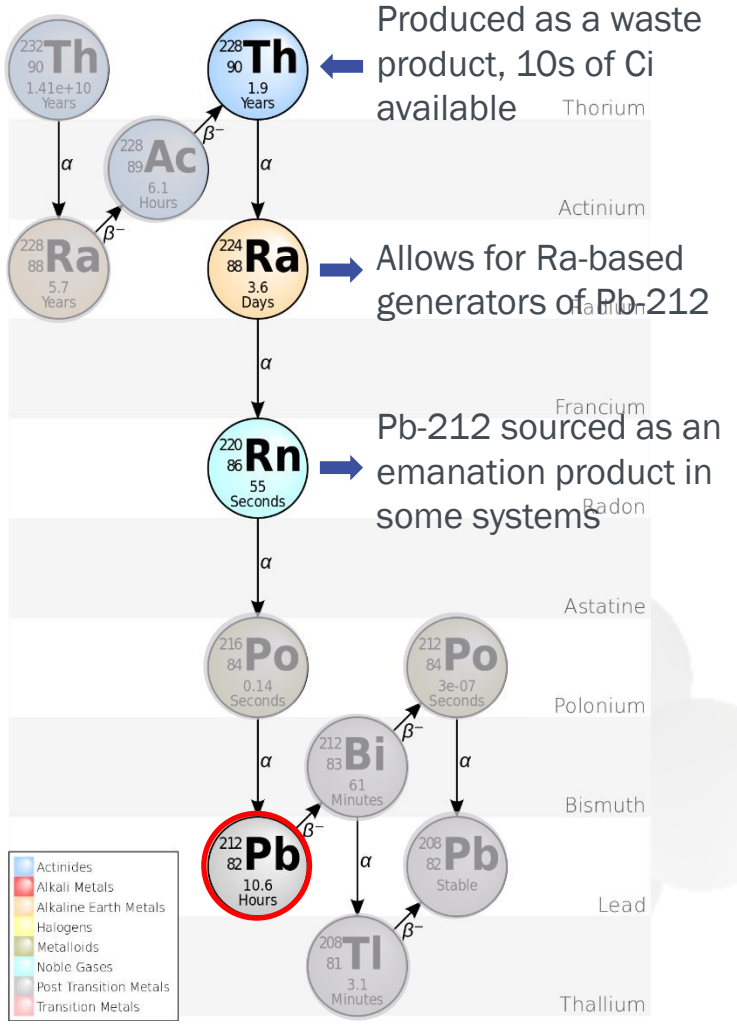
Parent Isotope Supply

Large quantities of precursor Th-228 available

- Thorium-228 is available as a natural isotope but is also produced as a waste product from the nuclear fuel cycle, and as a result of production of therapeutic isotope Ra-223 (marketed as Xofigo, Bayer)
- Both Ac-227 (the parent isotope of Ra-223) and Th-228 are created when DOE's ORNL irradiates radium-226 in the High Flux Isotope Reactor.[1]
- The DOE therefore has 10s of curies of Th-228 available in a highly purified form
- Perspective Therapeutics estimates that such current quantities would suffice for approximately 150,000+ patient doses per year
- Perspective has a long-term supply agreement with the DOE for supply of Th-228

The availability of parent isotope in large quantities significantly de-risks supply of Pb-212 as a therapeutic isotope.
In addition, it provides methodological flexibility for Pb-212, as there are many processes available for large-scale purification.

Natural decay, no input needed



1. https://www.ornl.gov/news/thorium-228-supply-ripe-research-medical-applications

PERSPECTIVE THERAPEUTICS

Pb-212 Isotope Purification

Multiple purification paths to Pb-212 available

Small scale

- Similar in size to Ga-68 generators
- Useful for preclinical R&D and clinical trials
- Nimble, portable supply available for either local or regional production
- Typically chromatography column based
- Using Ra-224 as parent
- Shelf life approx. 1-2 weeks
- 1-2 doses per batch per day

Examples:

- DOE
- VMT-α-GEN

Medium scale

- "Desktop" generators
- Useful for clinical trials & limited commercial production
- Non-portable, fixed location within hot cell in local production facility
- Gas-phase separation of the Rn-220
- Shelf life approx. 1 year
- 1-3 doses per batch per day

Examples:

- Advancell, others

Commercial scale

- Hot cell-sized generators
- For commercial production
- Non-portable, fixed location within hot cell in regional production facility
- Either chromatography or gas-phase separation using Th-228 source
- Permanent installation, topped up with Th-228 approx every 3 to 6 mo
- Questions about scalability and licensing

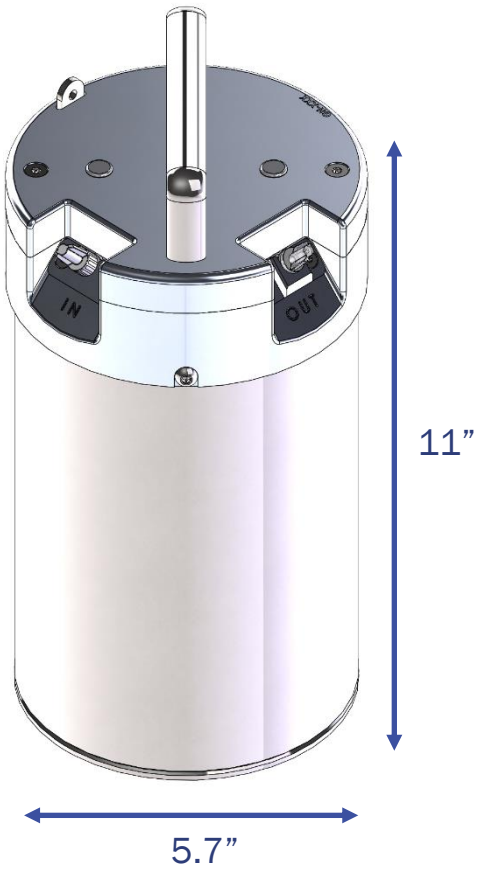
Examples:

- Multiple In development

The production of Pb-212 is inherently scalable to demand, flexible due to different purification schemes and cost-effective due to existing isotope availably. This contrasts with other alpha-emitting isotopes which require large infrastructure to produce and purify.

PERSPECTIVE THERAPEUTICS

^{212}Pb Supply via Reusable Desktop Isotope Generator



VMT-α-GEN

- Extensive feedstock from nuclear and mining waste material
- Long-term supply contract secured with US DOE
- On demand daily doses
  - Auto-regenerates overnight
  - ~1 week shelf life

Small, Elegant ^{212}Pb Isotope Generator

- Integrated lead shielded containment
- Simple inlet and outlet ports
- Radioactive feedstock for nearly 300 generators fits in a small vial

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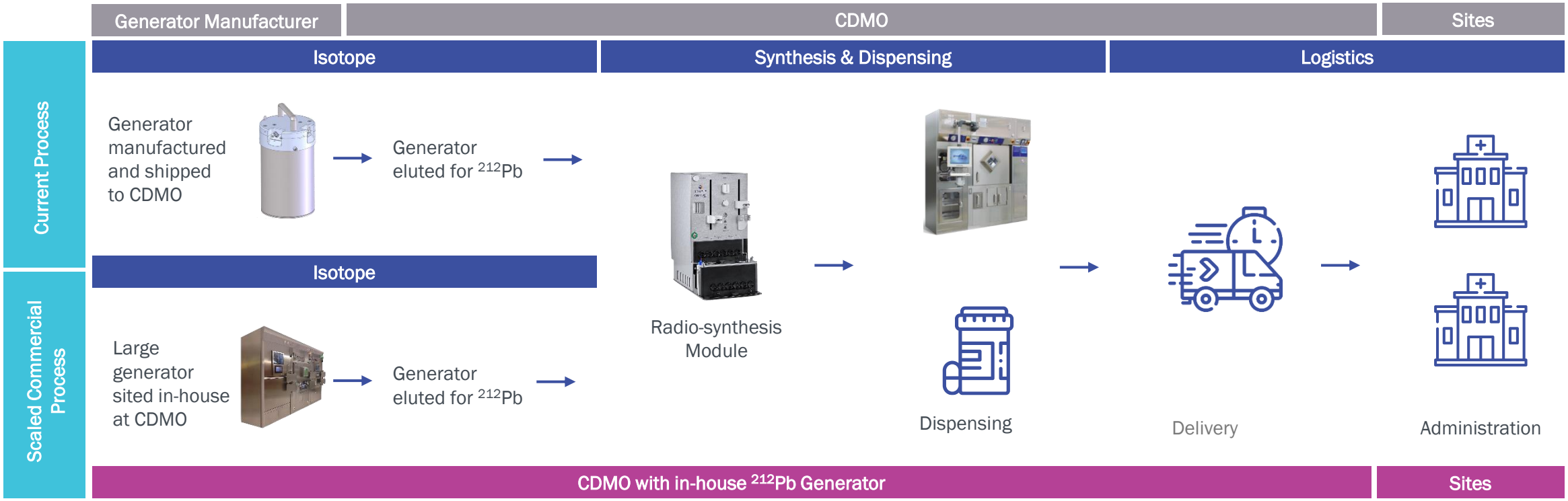
Scalable Manufacturing and Distribution Logistics

Perspective's plan to flexibly scale manufacturing to commercial levels (100,000+ doses per year)



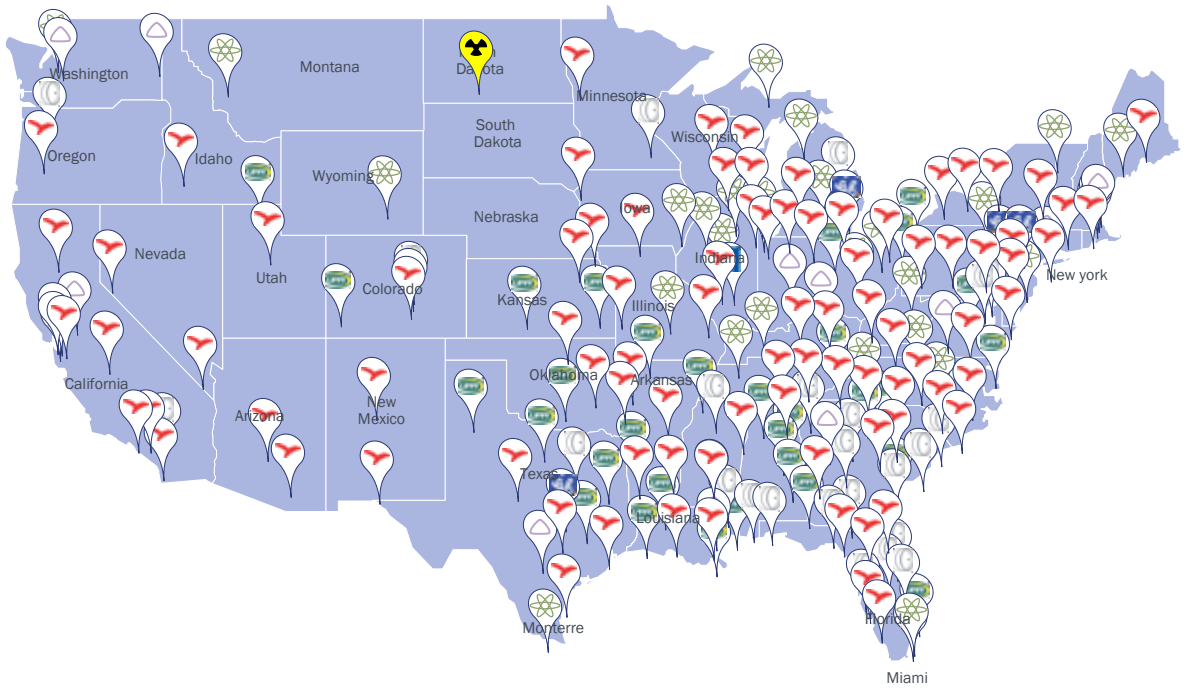
- Commercial supply will require the use of an isotope production system of larger scale than the current $^{224}Ra/^{212}Pb$ generators
- The current isotope separation process remains highly scalable with larger activity levels
- Regional CDMOs will have capabilities to expand capacity as needed as more ^{212}Pb products come on-line

PERSPECTIVE THERAPEUTICS

Infrastructure and Distribution Networks for Radiopharmaceuticals are Mature

Existing radiopharmacies have established logistics for distributed supply

Map of US Radiopharmacies[1]



- There were 40+ million diagnostic nuclear medicine procedures performed in the US in in 2022
- Multiple networks exist in a competitive environment of 300+ radiopharmacies
- Distribution logistics are mature and well-developed
- Many of these diagnostic products have much shorter half-lives than ^{212}Pb
- Radiopharmaceutical revenues are expected to reach between $14 and $33 billion by 2031, driven by therapeutics

The technology, infrastructure, logistics, market, clinical demand, and regulatory pathways for Perspective's products are mature/growing and will be ready for scaled commercial production and distribution of ^{212}Pb-based radiotherapeutics

[1] https://nuclear.pharmacy.purdue.edu/nukeinus

PERSPECTIVE THERAPEUTICS

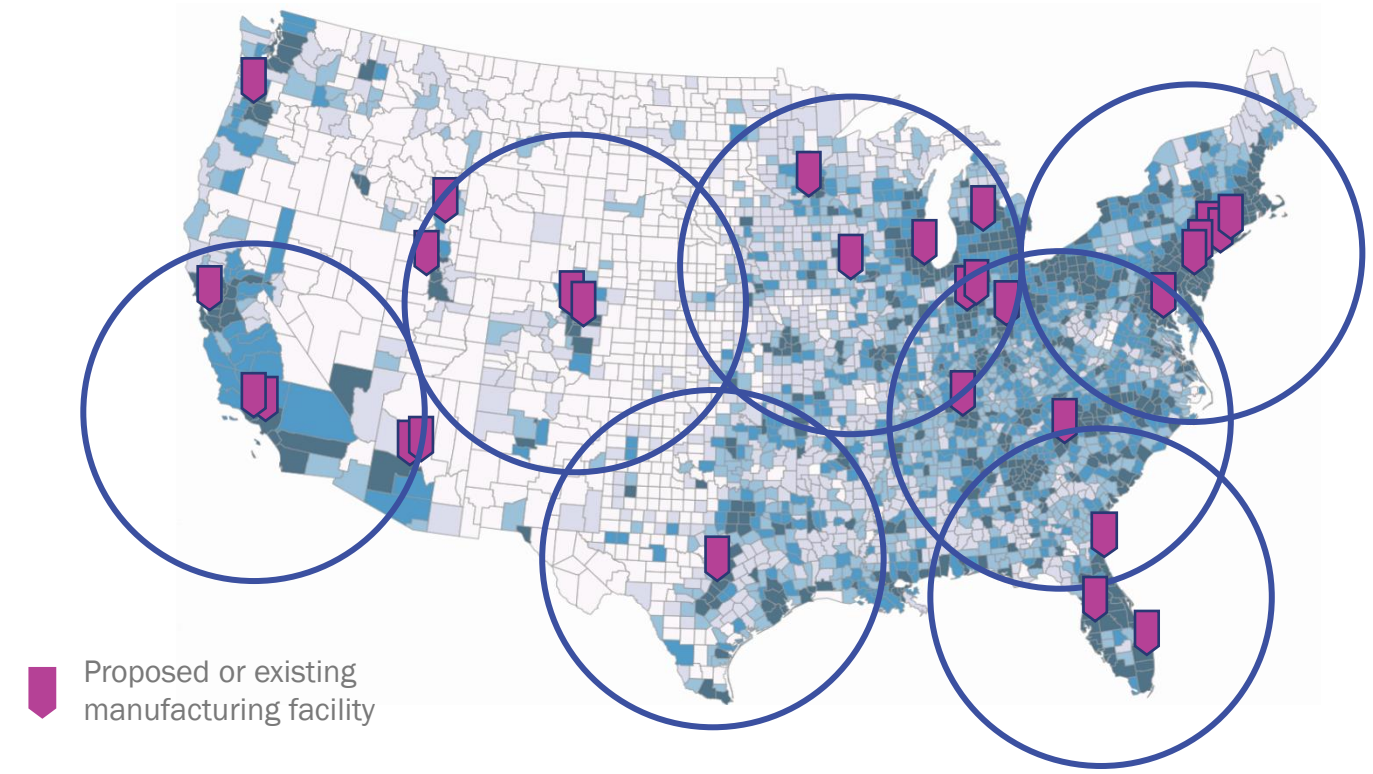
Regional Manufacturing Allows Commercialization of ^{212}Pb-labeled Finished Products

Limited number of sites allows for "network effect" to ensure robust supply chain

Location	Radius 11 hr – 400 miles
Coralville, IA	51 m
New York, NY	75 m
Los Angeles, CA	46 m
Austin, TX	32 m
Atlanta, GA	57 m
Central Florida, FL	25 m

Top 6 sites cover nearly 300 million people within a one half-life (11 hr) delivery radius[1]

Products can also be driven further or flown as necessary



Circles represent distribution radii for facilities already producing Perspective products or **scheduled to produce within next 18 months**

[1] Company estimates

PERSPECTIVE THERAPEUTICS

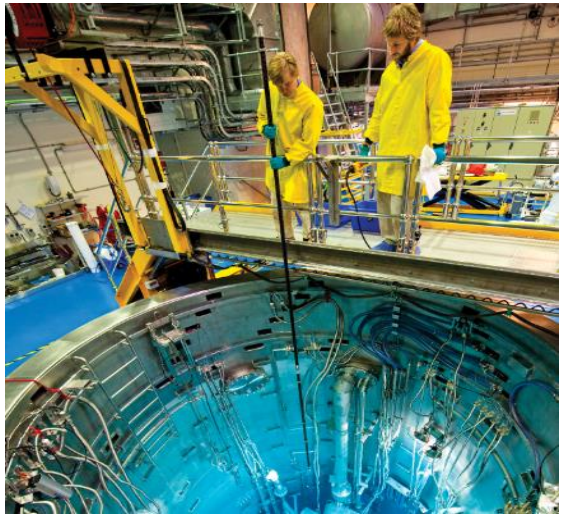
Comparison to Existing Approaches

Isotope: Availability and scalability at Clinical Development Stages

Isotope Production methods

Large, centralized capital-intensive infrastructure such as reactors, cyclotrons, LINACs etc.

- Suitable for longer half-life isotopes (eg. Lu-177, I-131, Ac-225, Cu-64/67, Pb-203 etc.)
- Allows for national/international production, shipping of finished product
- Somewhat vulnerable as redundancy can be expensive
- Large capital investment required (subsidized by government currently)

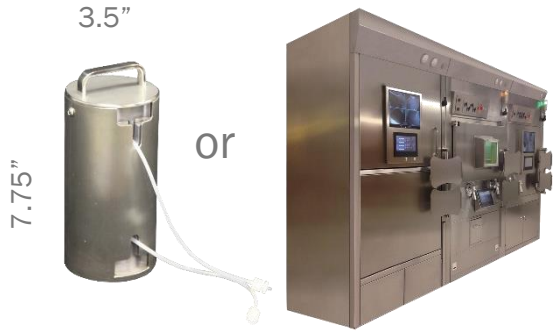


Vs.

Generator-based supply that can be deployed locally or regionally (Portable or in-house permanent installation)

- Suitable for shorter half-life isotopes with appropriate decay schemes (eg. Tc-99m, Pb-212, Ga-68)
- Requires multiple manufacturing sites across a network & local/regional finished product
- Allows for flexibility and redundancy, improving reliability of patient dose supply

Can be scaled for multi-dose manufacture at regional CDMOs with permanent in-house Pb-212 generator: Perspective's approach for commercialization



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Isotope and Finished Product Landscape: Commercial Supply

	Centralized Isotope and Manufacturing - Competitors	Cost	Pb-212-labeled Commercial Perspective Products
Parent Isotope Source	• Lu-177: Ytterbium-176 is expensive. Limited supply from Russian sources. Purification is a cumbersome process • Ac-225: Limited access to parent supplies such as Ra-226, U-233	High-mid vs Low	• Th-228 available in very plentiful, pure supply • Allows for stockpiling of precursor parent isotope
Isotope Production Method	• Multiple production methods available, some lead to contaminants • Typically requires dedicated nuclear reactors or large accelerators	High-mid vs Low	• No need for irradiation – Th-228 decays to Ra-224 and Pb-212
Purification of Isotope	• Extremely large hot cells required for initial separation • Can be off site at third parties in dedicated facilities	High vs Mid	• Occurs on-site prior to finished product within existing CDMO facilities (commercial)
Isotope Shipping	• Isotope frequently shipped to site for finished product manufacture	Mid vs Low	• Parent isotope at site already (commercial)
Finished Product Manufacturing	• Typically centralized at one large site	Similar (1 $$$ site vs multiple $)	• Distributed network of scalable regional manufacturing sites
Logistics	• Distributed nationally	Similar	• Distributed by regional facilities
Summary	Long supply chains, higher 3rd Party risk, complex processing, less redundancy, more labor and capital intensive, less environmentally friendly, not scalable to demand	Higher up front for centralized approach, but similar costs post finished product	Short supply chains, vertical integration of activities, simple processing, greater redundancy, less capital intensive, more environmentally friendly, scalable to demand

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