Corporate Overview

September 2024

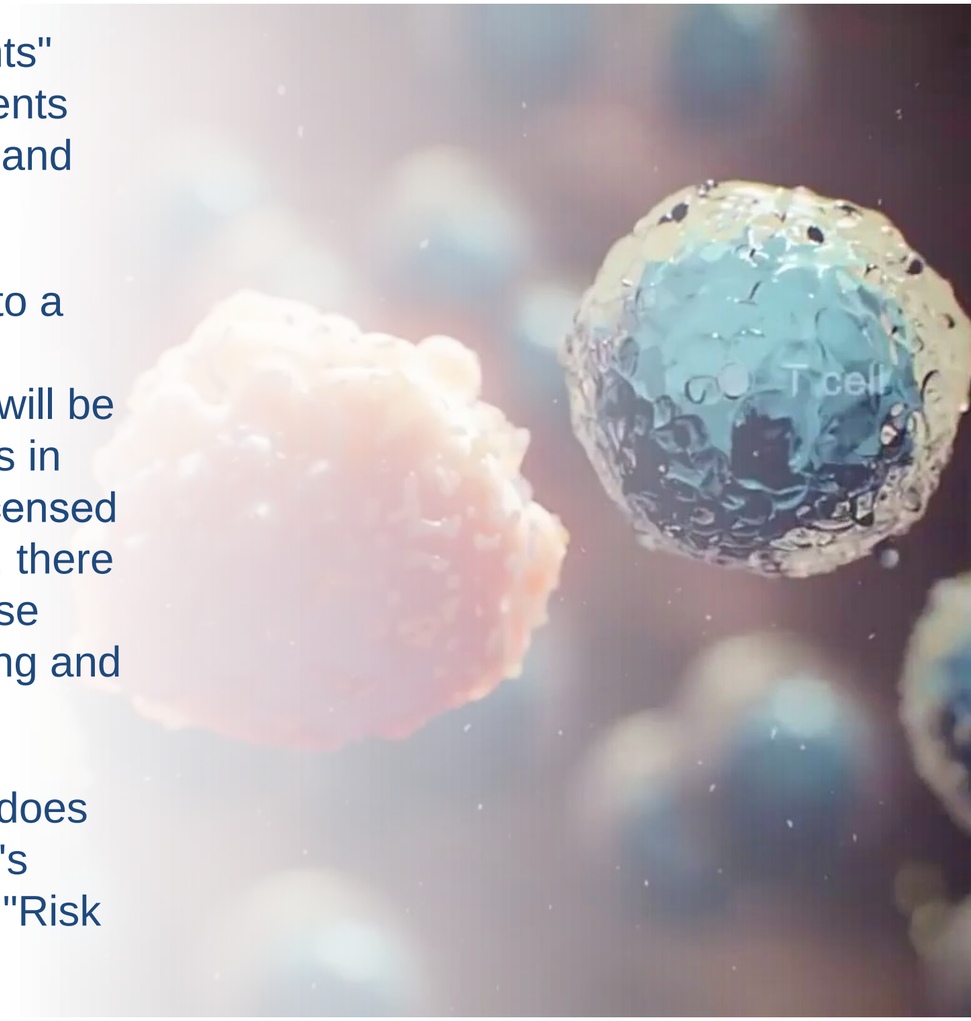
Nasdaq: GOVX

Forward Looking Statements

Certain statements in this presentation may constitute "forward-looking statements" within the meaning of the Private Securities Litigation Reform Act. These statements are based on management's current expectations and are subject to uncertainty and changes in circumstances.

Actual results may differ materially from those included in these statements due to a variety of factors, including whether: GeoVax can develop and manufacture its vaccines with the desired characteristics in a timely manner, GeoVax's vaccines will be safe for human use, GeoVax's vaccines will effectively prevent targeted infections in humans, GeoVax's vaccines will receive regulatory approvals necessary to be licensed and marketed, GeoVax raises required capital to complete vaccine development, there is development of competitive products that may be more effective or easier to use than GeoVax's products, GeoVax will be able to enter into favorable manufacturing and distribution agreements, and other factors, over which GeoVax has no control.

GeoVax assumes no obligation to update these forward-looking statements and does not intend to do so. More information about these factors is contained in GeoVax's filings with the Securities and Exchange Commission including those set forth at "Risk Factors" in GeoVax's Form 10-K.



GeoVax: Phase 2 clinical-stage biotechnology company developing **immunotherapies** and **vaccines** against a wide range of **cancers** and **infectious diseases**

Innovate → **Differentiate** → **Accelerate** → **Collaborate**

Unique, **patented products** addressing unmet medical needs

Targeting populations underserved by existing products/standard of care

Pursuing **expedited registration** pathways

Worldwide distribution and administration via business collaborations

A compelling **opportunity** with a value-driven **strategy**

Priority Programs Advancing

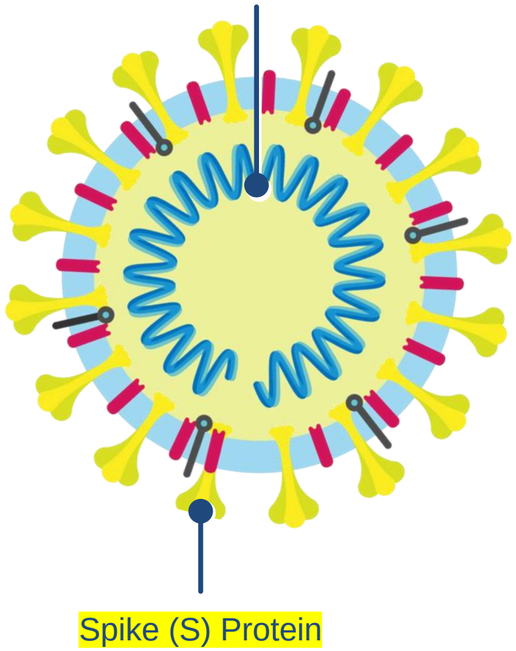
- **GEO-CM04S1: Next-generation COVID-19 vaccine – BARDA Project NextGen**
- **GEO-MVA: Mpox/Smallpox vaccine**
- **Gedeptin®: Solid Tumor Therapy**

COVID-19: GEO-CM04S1

Critical Importance of Both Antibodies & T-cells for Protection

GEO-CM04S1

S+N Proteins are Co-Expressed



Immune Responses for Protection against Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2)

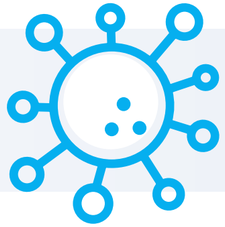
COVID-19 Disease Severity

	Asymptomatic Infection	Symptomatic Infection	Severe Disease, Hospitalization	Death
Antibodies	++++	+++	++	++
T Cells	+	++	++++	++++

Both humoral (antibody) and cellular (T cell) immune responses contribute to protection against SARS-CoV-2. “+” signs denote the relative importance of antibodies and T cells for protection at each stage of disease severity, with more “+” signs indicating greater importance/protection.

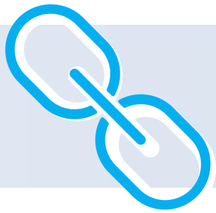
Barouch DH, N Engl J Med 2022; 387:1011-1020

GEO-CM04S1



COVID-19 Vaccine

More robust -- “Variant Agnostic”

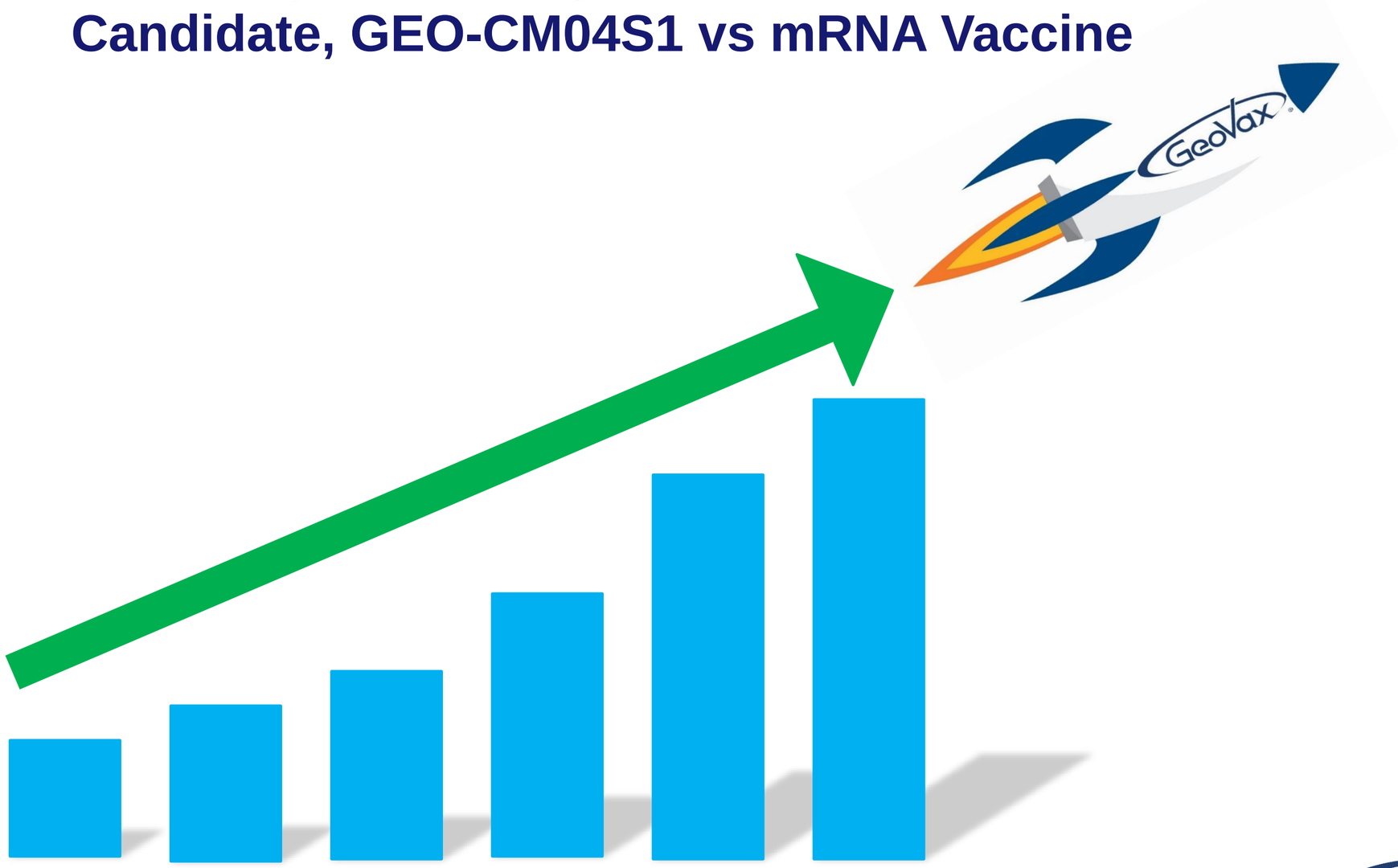


More durable – longer duration

GeoVax platform (MVA): recognized safety, potent, durable, minimal refrigeration/freeze-dried delivery

- Current vaccines do not provide sufficient protection for those with depleted immune systems
- GEO-CM04S1: More robust, durable protection than authorized vaccines – reduces need for boosters
- Can be used as booster to existing vaccines or stand-alone for immune compromised patients

BARDA Project NextGen Award Valued at ~$400 Million to Conduct Phase 2b Clinical Study Evaluating Next-Generation COVID-19 Vaccine Candidate, GEO-CM04S1 vs mRNA Vaccine



BARDA Project NextGen

Phase 2b Head-to-Head Study in COVID-19

Randomized study evaluating GEO-CM04S1 vaccine with an FDA approved vaccine

Collaborator	N	Randomization	Study Population
BARDA	~10,000 Pts. ~ 100 Sites	1:1	Previously Vaccinated Healthy Volunteers

Study Arms (Control vs Treatment)

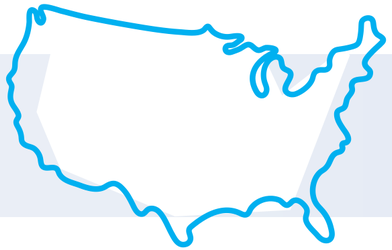
GEO-CM04S1 Vaccine	VS	FDA-approved COVID-19 Vaccines

Study Activation H1 ‘25

> 80 Sites Confirmed

GEO-CM04S1

Targeting Immunocompromised patients



50+ million adults in the U.S.

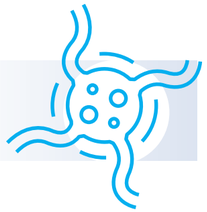
> 400 million adults Worldwide

Data estimate based on: (a) data from the most recent (2021) U.S. National Health Interview Survey; and (b) summation of various medical conditions and treatments associated with immunocompromised conditions, or weakened immune systems

GEO-CM04S1 – Phase 2 Clinical Trials

Immunocompromised/stem cell transplant patients

- Patients with hematologic malignancies receiving stem-cell transplantation or CAR-T therapy
  - Highest at-risk groups for severe infection, hospitalization and death
  - Primary vaccine in direct comparison to mRNA vaccines



Immunocompromised/Chronic Lymphocytic Leukemia (CLL) patients

- High at-risk population with abated antibody response
  - Major, currently unmet, medical need for alternative immune enhancement response (e.g., T-cells)
  - Booster vaccine in direct comparison to mRNA vaccine

Booster to mRNA vaccine

- Healthy population following vaccination with an mRNA vaccine
  - Potential for broader and more durable protection versus multiple, continuous mRNA doses

GEO-CM04S1 Development Plan

- Validate the Differentiation and Value of GEO-CM04S1
  - Broader (Variant Agnostic), more durable (6-12+ months) protection
  - “Preferred COVID-19 vaccine for immunocompromised patients”
- Expedited Registration Focused on Immunocompromised Patient Populations

Global Development & Commercialization via Collaborations/Partnering

Mpox & Smallpox: GEO-MVA

GEO-MVA

Focused on expedited registration for 1st U.S.-sourced vaccine against Mpox & Smallpox

- **WHO Global Health Emergency Declaration**
- Currently one supplier worldwide – unable to meet demand
- High U.S. federal government interest in establishing a U.S. based supplier
- HHS interest in replenishing/re-stocking Strategic National Stockpile (SNS)
- **GeoVax advancing development**
  - **cGMP Master Seed Virus produced**
  - **In dialogue with various U.S. & Global stakeholders**
  - **Regulatory discussion/guidance underway**

GEO-MVA: Critical Global Medical Need

Target Patients Candidates For

- **Mpox (Monkeypox)**
- Smallpox (Strategic National Stockpile/SNS)

Customer Profile

- **Mpox: WHO Global Health Emergency Declaration**
- Smallpox: U.S. Government SNS

U.S. Stockpile Target Requirement

- 66M at risk Americans
- 132M doses

U.S. At Risk Population

- 7M Adult Males at risk*
- 14M doses

*Source: Mpox cases reported to CDC: Age and Gender (August 23, 2023);
*Gallup Poll: LGBT Identification (Feb 2022)

Oncology: Gedeptin®

Gedeptin®: Significant Medical Need

Target Cancer Patient Populations

- Advanced Head & Neck (initial indication; Orphan Drug Status)
- Earlier-Stage Head & Neck
- Breast
- Prostate
- Colon
- Ovarian
- Pancreatic
- Lung

Patient Characteristics

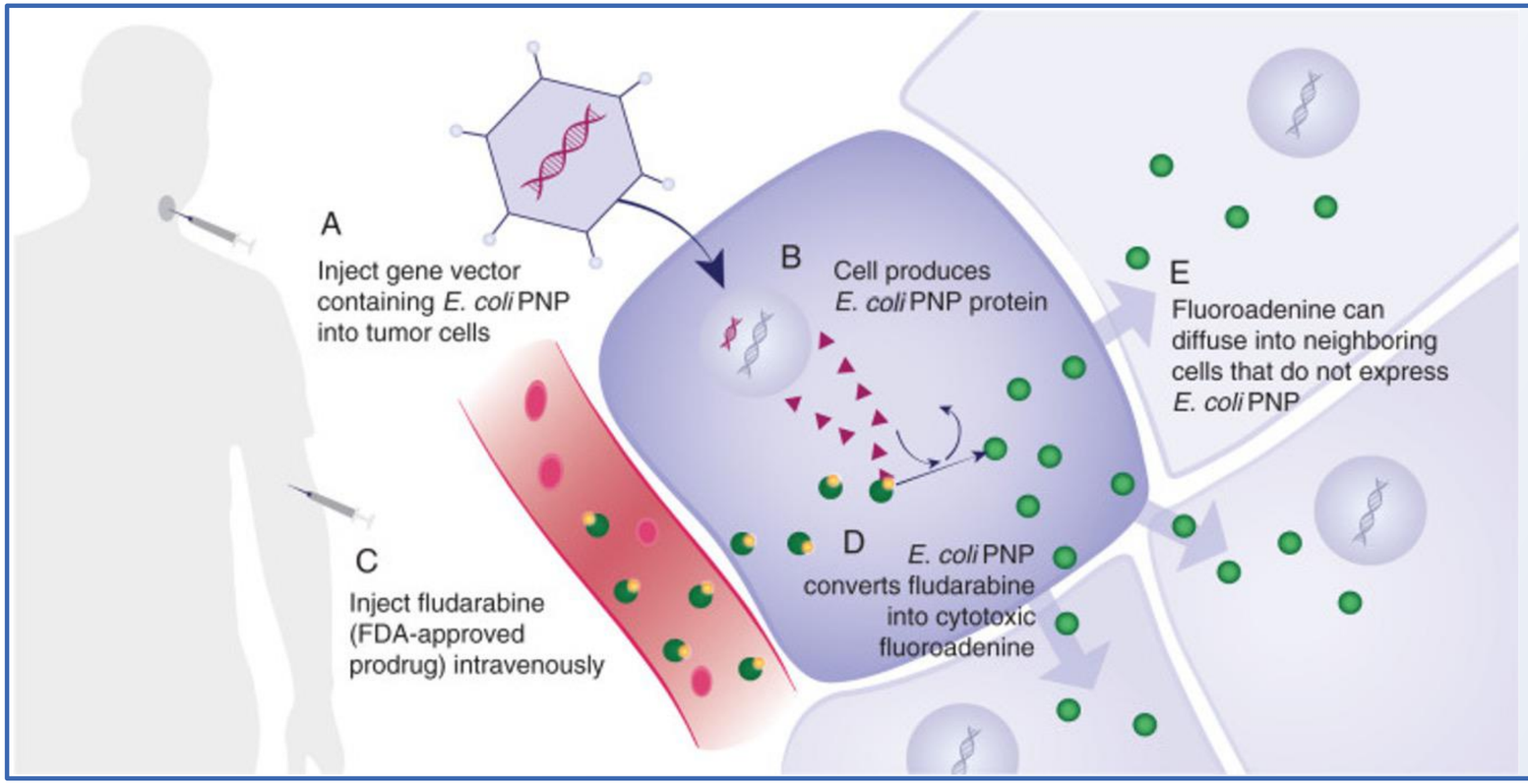
- “Needle-accessible” solid tumors

Patient Prevalence (U.S.)

- Advanced Head & Neck Cancer (deaths/yr) - 16,000
- Early-Stage Head & Neck Cancer (new dx/yr) - 71,000
- Other Solid Tumors (deaths/yr) - 321,000

Source: American Cancer Society (ACS) Cancer Facts & Figures 2024

Gedeptin® Mechanism of Action



- Unprecedented level of cell-killing activity
- Novel tumor killing mechanism
- Facilitates destruction of refractory solid tumors
- “Tumor agnostic”

Phase I dose-escalating trial of Escherichia coli purine nucleoside phosphorylase and fludarabine gene therapy for advanced solid tumors - PMC (nih.gov)

Gedeptin® Clinical Data*

Phase 1/ 2 study of Ad/PNP with fludarabine for the treatment of head & neck squamous cell carcinoma

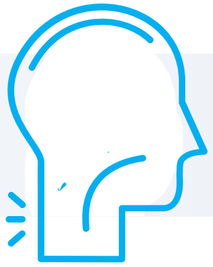
A. Dimitrios Colevas[1*], Eric J. Sorscher[2*], William Parker[3], Roan Courtney Raymundo[1], Jeong S. Hong[2], Regina Rab[2], Camilo Henao[4], Nikki Schmitt[2], Madison Stallings[2], Kelly T. McKee, Jr.[5], Eben Rosenthal[6], Joseph Curry[4]

- Evaluation of Gedeptin® as an experimental therapy for refractory tumors (NCT03754933)
- Safety and efficacy of repeat cycles of Gedeptin® therapy in patients with recurrent head and neck squamous cell carcinoma (HNSCC) with tumor(s) accessible for injection and no curable treatment options
- Data highlights (8 patients):
  - No dose limiting toxicities or serious adverse events (SAEs) are attributable to treatment
  - No adverse events above grade 3 severity
  - Up to 5 cycles of Gedeptin® treatment administered without limiting sequelae
  - Intratumoral expression of the PNP transgene bt RT-PCR established in treatment tumors to date
  - Impaired tumor growth (i.e., stable disease using RECIST 1.1 evaluation criteria) in targeted lesions seen in 5 of 7 patients (tumor response assessment in 1 patient remains under study)
- Conclude from interim analysis that administration of Gedeptin® is safe and feasible

* Poster presentation at the July 10, 2023 American Association for Cancer Research (AACR) and the American Head and neck Society (AHNS) joint Head and Neck Cancer Conference in Montreal, QC, Canada

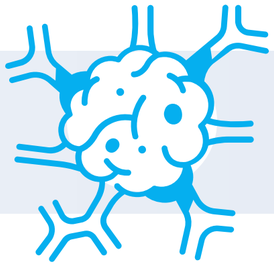
1. Stanford Cancer Institute, Stanford University; **2.** Emory University School of Medicine; 3. PNP Therapeutics, Inc.; **4.** Thomas Jefferson University; **5.** GeoVax Laboratories; **6.** Vanderbilt University

Gedeptin® Clinical Development Plans



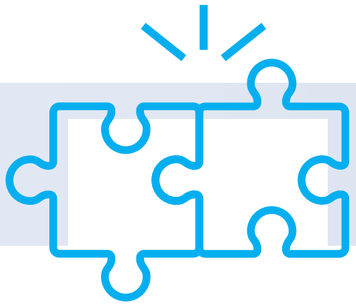
Initial Focus: Advanced Head & Neck Cancer Indication (Mono-therapy)

- Completed initial Ph 2 trial (FDA funded), validating safety and tumor shrinkage
- Initiate expanded Ph 2 trial focused on expedited registration



Secondary Focus: Additional Solid Tumor Indications (Mono-therapy)

- Clarify next mono-therapy indication and protocol



Tertiary Focus: Combination-Therapy (in conjunction with ICIs)

- Complete current preclinical studies of Gedeptin in conjunction with ICIs
- Clarify initial clinical indication and trial of Gedeptin + ICI therapy

Global Development & Commercialization via Collaborations/Partnering

GeoVax Announces Phase 2 Plans for Gedeptin®
Cancer Therapy Following Clinical Advisory Committee Review

Company plans Phase 2 trial in first-recurrence head & neck cancer,
in combination with immune checkpoint inhibitor

Atlanta, GA, July 31, 2024…

…The primary goal of the planned Phase 2 trial will be to establish efficacy of neoadjuvant Gedeptin therapy combined with an immune checkpoint inhibitor in first-recurrence squamous cell head and neck cancer…The Company has initiated the necessary planning activities, including protocol development, manufacturing, and CRO selection with the trial activation anticipated during the first half of 2025…

…“We look forward to activation of this trial and are pursuing development plans in additional solid tumor indications in partnership with leading academic oncology centers…” added David Dodd, GeoVax’s Chairman and CEO.

Milestones, Catalysts & Summary

2024 Milestones & Catalysts

GEO-CM04S1 (Next-Generation COVID-19 Vaccine) – Phase 2b & 2 Clinical Program

- **PNG: Operational progress re trial activation**
- Immunocompromised/stem cell transplant patients: **Additional sites initiated; interim data results**
- Immunocompromised/Chronic Lymphocytic Leukemia (CLL) patients: **Enrollment completed; initial data results**
- Healthy patient booster trial: **Data results**

Gedeptin® (Solid Tumor Therapy) – Phase 2 Clinical Trial

- Phase 2 expanded trial: **Operation progress re trial activation**

GEO-MVA (Mpox; Smallpox)

- Progress re expedited regulatory registration pathway
- Expanded U.S. & Global stakeholder discussions

Advanced, Transformative Continuous Cell-line MVA Manufacturing

- Progress for GEO-CM04S1 and GEO-MVA

GeoVax Portfolio: Revenue Opportunity

Product	Disease	Target	Est'd Market Revenue Potential $(Billion)
GEO-CM04S1	COVID-19	Primary Vaccine For Immune Compromised Patients/Booster to mRNA	**$ 30.0+**
GEO-MVA	Mpox/Smallpox	Global Health Emergency U.S. SNS	**$ 10+**
Gedeptin®	Cancer	Early-Stage Head & Neck Cancer	**$ 12.4**
Gedeptin®	Cancer	Advanced Head & Neck Cancer	**$ 2.8**

~$55 Billion in Market Revenue Potential

GeoVax Strategy

Innovate → **Differentiate** → **Accelerate** → **Collaborate**

Unique, **patented products** addressing unmet medical needs

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Worldwide distribution and administration via business collaborations

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GeoVax
Thank You !!!