



GeoVax Corporate Overview

October 2025

Nasdaq: GOVX

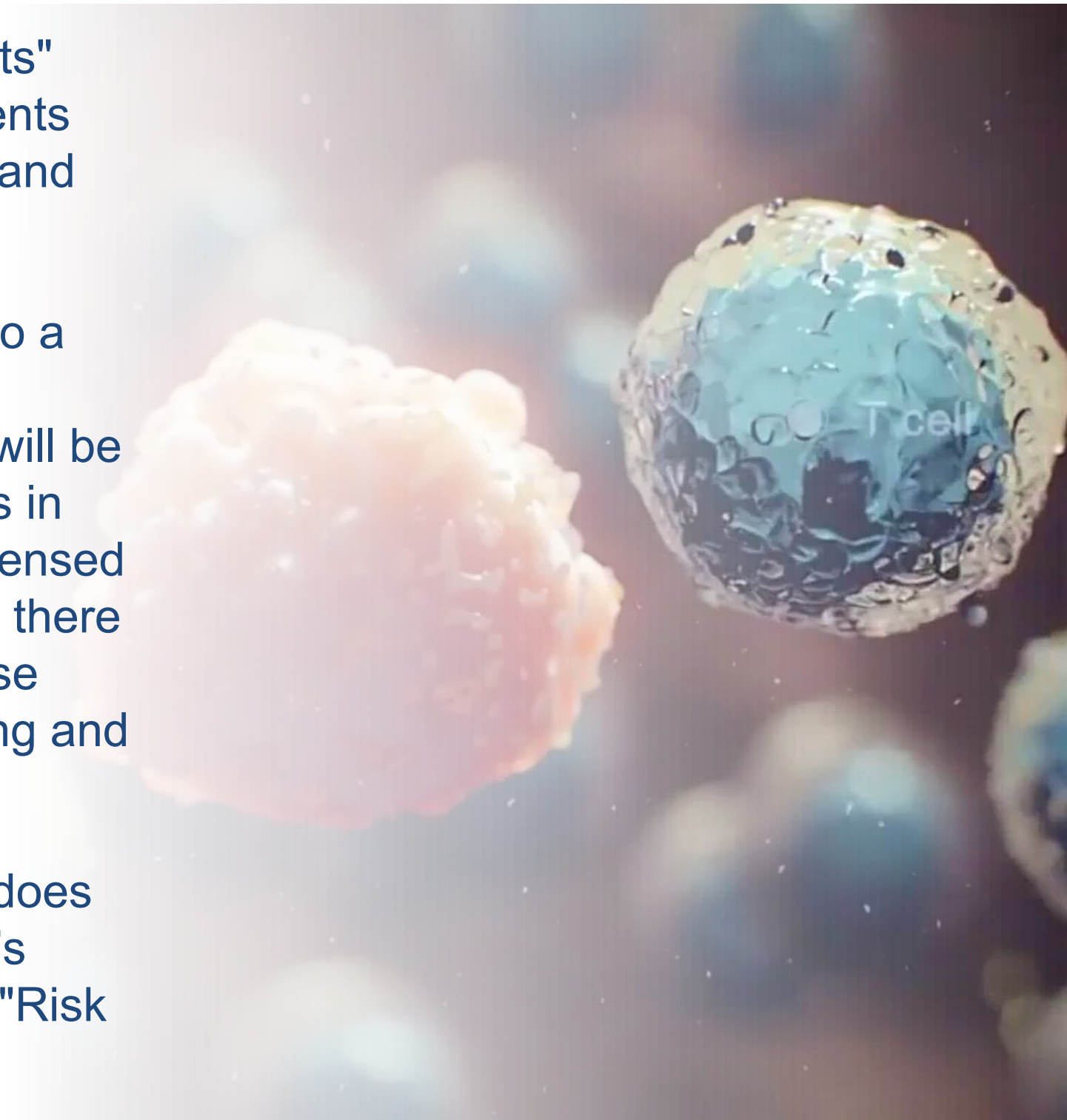


Forward Looking Statements

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.

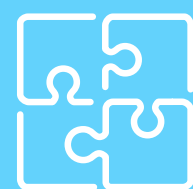
GeoVax assumes no obligation to update these forward-looking statements and does not intend to do so. More information about these factors is contained in GeoVax's filings with the Securities and Exchange Commission including those set forth at "Risk Factors" in GeoVax's Form 10-K.



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



Innovate



Differentiate



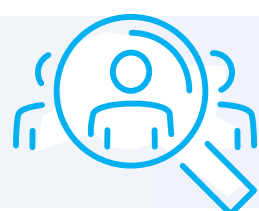
Accelerate



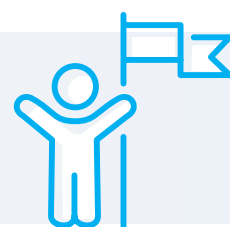
Collaborate



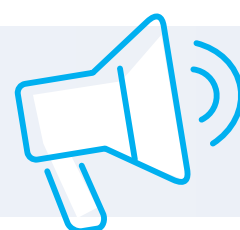
Unique, **patented products** addressing unmet medical needs



Targeting **populations unserved/underserved** by existing products/standard of care



Pursuing **expedited registration** pathways



Worldwide commercialization and distribution via **partnering**



De-risked approach to drive value and growth

Strategic Optionality & Industry Consolidation

■ Industry Tailwinds:



- Record levels of pharma/biotech cash reserves
- Patent cliffs driving need for new assets
- Oncology and vaccines remain top M&A categories

■ GeoVax Differentiation:



- U.S.-based MVA platform for pandemic preparedness
- Multi-antigen COVID vaccine addressing unmet needs
- Oncology therapy with checkpoint inhibitor synergy

■ Investor Takeaway:



- Rare, late-stage small-cap with multiple “shots on goal”
- Positioned as a digestible acquisition or partnering target

Priority Programs Advancing to Registration Milestones

- **GEO-MVA: Mpox/Smallpox vaccine**

- Expedited authorization path received; Ph 3 trial anticipated H2 '26
- Expand global access and supply

Annual Global Market Opportunity >\$11+ Billion

- **GEO-CM04S1: Multi-Antigen Next-generation COVID-19 vaccine**

- Underserved immunocompromised patients (40+ million USA; 400+ million ww)
 - Multiple Ph 2 trials underway; Seeking expedited authorization path(s)
- Potential more robust & more durable booster to mRNA vaccines

Annual Global Market Opportunity > \$30+ Billion

- **Gedeptin[®]: Solid Tumor Therapy**

- Tumor agnostic
- Orphan status granted for Advanced Head & Neck cancer; Ph 2 trial anticipated H2 '26

Annual Global Market Opportunity (Head & Neck Cancer) > \$15+ Billion

Mpox & Smallpox: GEO-MVA

WHO Declarations – Aug ‘24; Nov ‘24; Feb ‘25; June ‘25

 World Health Organization

Health Topics ▾

Countries ▾

Newsroom ▾

Emergencies ▾

Data ▾

About WHO ▾

العربية

中文

Français

Русский

Español

WHO Director-General declares mpox outbreak a public health emergency of international concern

14 August 2024 | News release | Reading time: 3 min (789 words)

Media Contacts

News / Press releases

Africa CDC Declares Mpox A Public Health
Emergency of Continental Security, Mobilizing
Resources Across the Continent



13 August 2024

Theme

Emergency Response and Preparedness

Region

Central Africa, Eastern Africa, Northern
Africa, Southern Africa, Western Africa

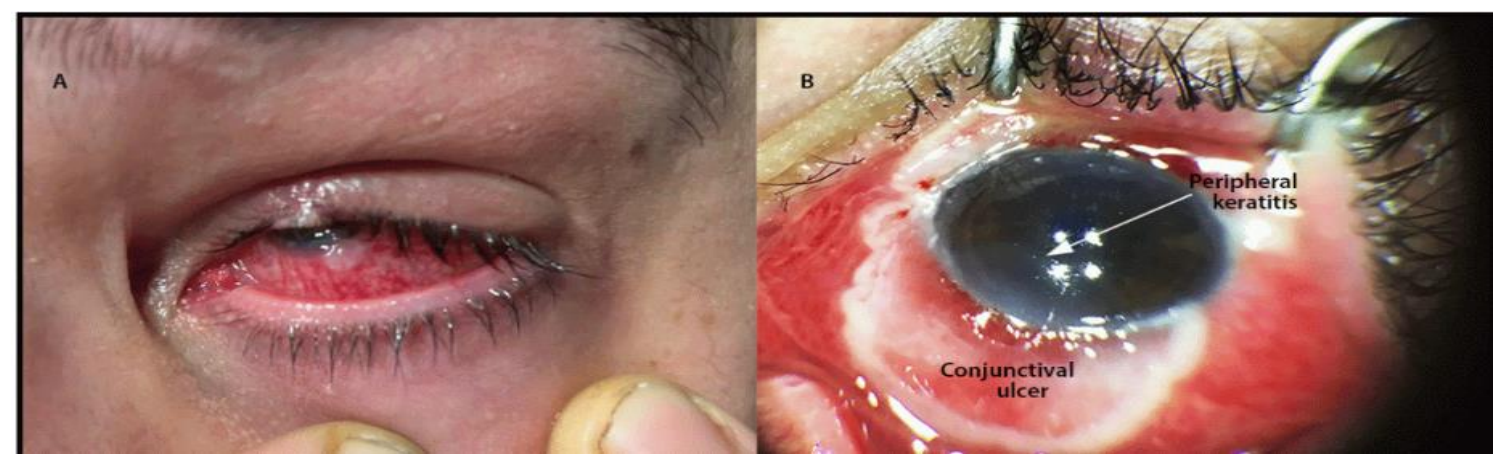
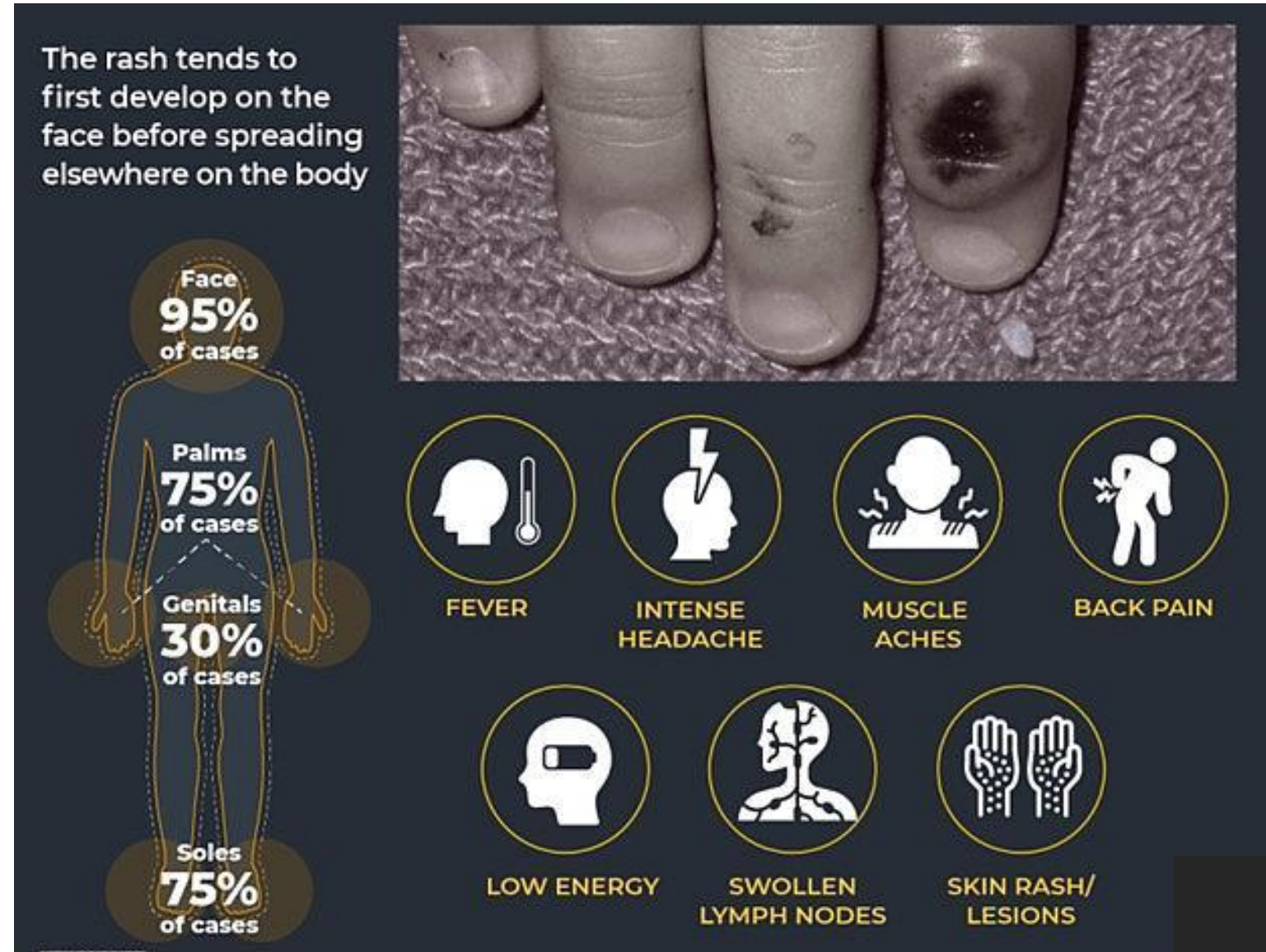


Mpox – “A Call to Arms!!”

- **Increased virulence & spread**
 - Multiple Mpox variants now circulating
 - More virulent, higher mortality and greater migration (US; EU; Africa)
- **Vaccination is critical to reduce morbidity/mortality threat**
- **Worldwide need to increase vaccine supply & availability**
 - Increased vaccine availability and better vaccine supply
 - Multiple, flexible manufacturing on Africa continent

Source: Adapted from MedCram.com

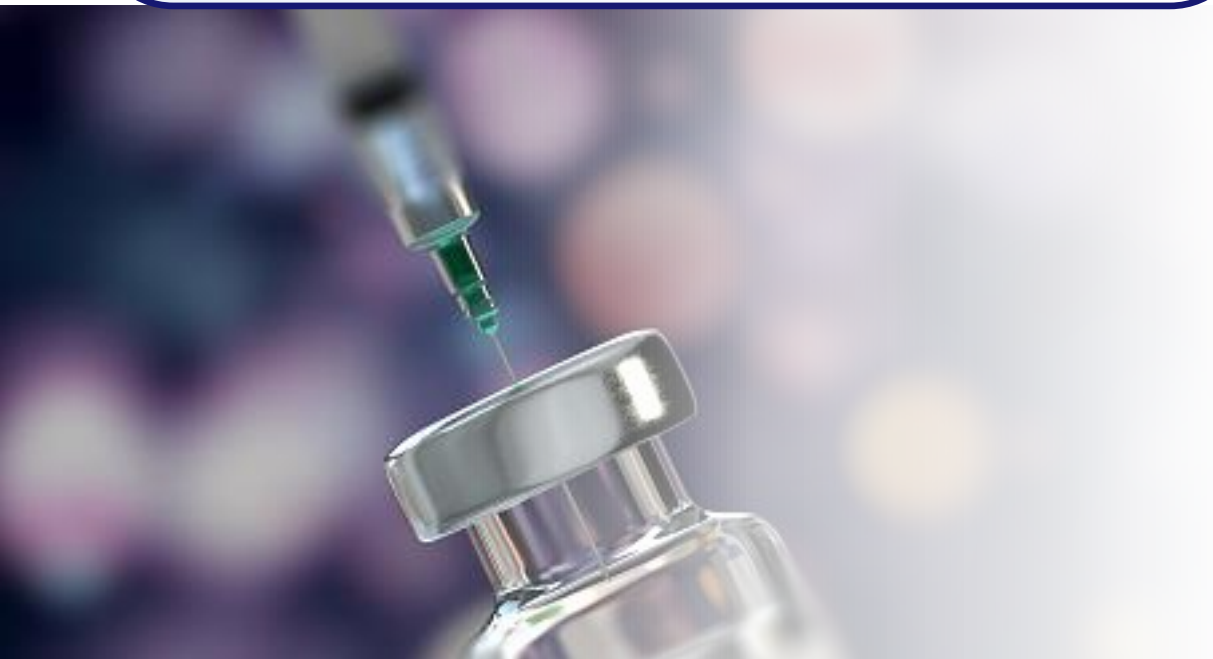
Threatening Symptoms



GEO-MVA

GeoVax

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



- Currently: one supplier worldwide (MVA-BN) – unable to meet demand (insufficient production capability)
- Strong U.S. government interest in establishing a U.S. based supplier
 - Need to eliminate dependency on foreign supply source/monopoly!!
 - HHS needs to replenish/re-stock SNS (Strategic National Stockpile)
- **GeoVax advancing the development of GEO-MVA**
 - cGMP clinical batch manufactured and proceeding to clinical evaluation
 - In dialogue with various U.S. & Global stakeholders
 - **Regulatory guidance received providing expedited approval pathway**
- **GeoVax Advanced MVA manufacturing platform**

Global Annual Market Opportunity >\$11+ Billion



GeoVax Receives Favorable EMA Scientific Advice Supporting Streamlined Development Pathway for GEO-MVA

Confirms Single Phase 3 Immuno-Bridging Trial Sufficient to Evaluate Efficacy and to Support a Marketing Authorization Application (MAA) For Vaccination against Mpox and Smallpox

ATLANTA, GA, June 16, 2025

...received positive Scientific Advice (SA) from the European Medicines Agency (EMA) for GEO-MVA, a Modified Vaccinia Ankara (MVA)-based vaccine for the prevention of Mpox and smallpox...

...confirmed the adequacy of GeoVax's proposed non-clinical immuno-bridging and toxicity studies...

...“This positive guidance from EMA represents a major milestone in the global advancement of GEO-MVA and opens a strategic path toward regulatory approval in Europe,” said David Dodd, Chairman and CEO of GeoVax...

COVID-19: GEO-CM04S1

Single-Antigen, 1st Generation COVID-19 Vaccines

(mRNA: Pfizer/BioNTech; Moderna; Protein subunit vaccine: Novavax)

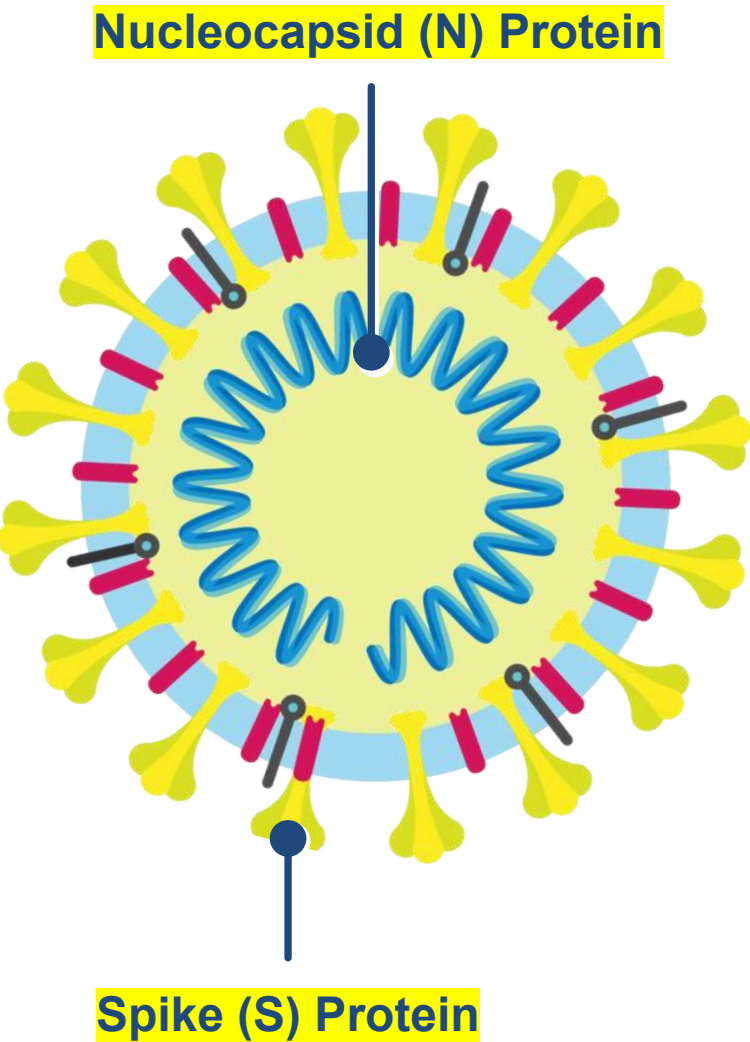
- *Limited breadth of protection: Requiring reconfiguration/updating as new variants emerge (e.g., Delta, Omicron, JN.1, etc.)*
- *Limited durability (e.g., 4-6 months vs goal of ~12 months)*
- *Inadequate protection for immune-compromised patients*

Multi-Antigen, Next-Generation COVID-19 Vaccine

- *Increased breadth of protection: Encompassing new variants without the continuous need for reconfiguration/updating*
- *Increased durability (e.g., ~12 months)*
- *Protection for immune-compromised patients*

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	+	++	++++	++++

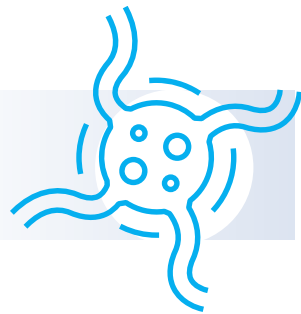
Both humoral (antibody) and cellular (T cell) immune responses contribute to protection against SARS-CoV-2. “+” signs denote the relative importance of antibodies and T cells for protection at each stage of disease severity, with more “+” signs indicating greater importance/protection.

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



COVID-19 booster vaccine

- Healthy adults following previous vaccination with an mRNA vaccine
 - Potential for broader and more durable protection vs that provided by currently available mRNA vaccines



GeoVax Announces Positive Interim Data Review for Phase 2 Clinical Trial of COVID-19 Vaccine Booster in Patients with Chronic Lymphocytic Leukemia

GEO-CM04S1 Improved Immune Response vs mRNA Vaccine

ATLANTA, GA, November 19, 2024 — GeoVax Labs, Inc. (Nasdaq: GOVX), a biotechnology company developing immunotherapies and vaccines against cancers and infectious diseases, today announced the completion of an interim data review by the Data Safety Monitoring Board (DSMB) for the ongoing Phase 2 clinical trial of GEO-CM04S1, GeoVax’s dual-antigen next-generation COVID-19 vaccine, as a booster vaccine for patients with chronic lymphocytic leukemia (CLL).

Based on the interim analysis of immune responses from the patients enrolled to date, the DSMB determined that, while the mRNA control arm of the study failed to meet the predetermined primary endpoint, the study should continue enrollment of the experimental arm utilizing GeoVax’s Next-Generation GEO-CM04S1 vaccine.

...“the outcome of the DSMB interim review appears to support our view of GEO-CM04S1 as a potentially superior COVID-19 vaccine booster within the CLL patient population”...

GEO-CM04S1 Development Plan

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



Global Development & Commercialization via Collaborations/Partnering

Annual Global Market Opportunity > \$30+ Billion

Oncology: Gedeptin®

Gedepin[®]: Significant Medical Need

Potential 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

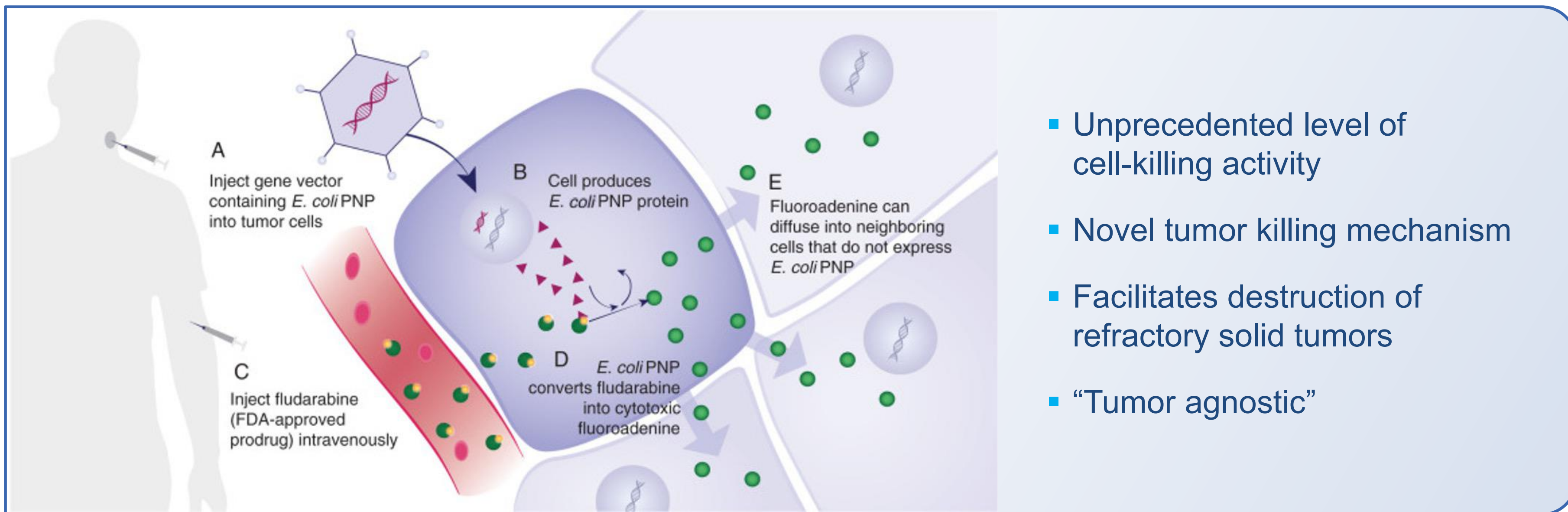


Patient Prevalence (U.S.)

- 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

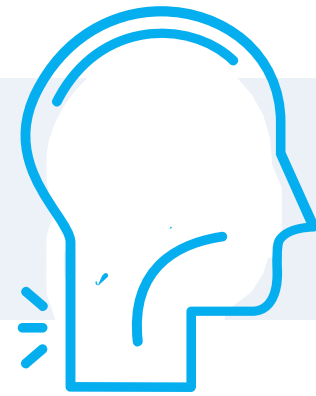
Gedepin[®] Mechanism of Action



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

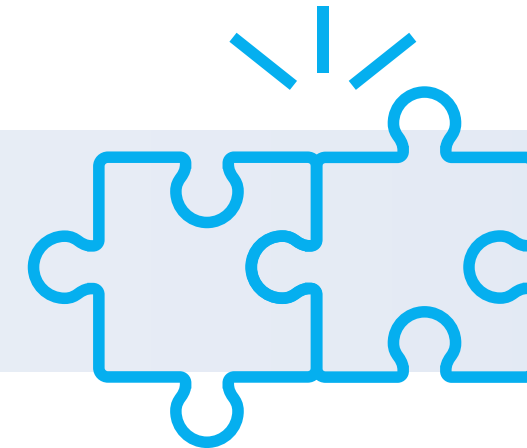
[Phase I dose-escalating trial of Escherichia coli purine nucleoside phosphorylase and fludarabine gene therapy for advanced solid tumors - PMC \(nih.gov\)](#)

Gedepin[®] Clinical Development Plans



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

- Completed initial Ph 1/2 trial (FDA funded), validating safety and tumor shrinkage against advanced HNC



**Focus:
Combination-Therapy
(Gedepin[®] with ICI)**

- Expanded Ph 2 trial focused on Gedepin + ICI therapy against 1st line HNC



Global Development & Commercialization via Collaborations/Partnering

Annual Global Market Opportunity > \$15+ Billion



GeoVax to Advance Gedeptin(R) into First-Line Therapy Neoadjuvant Combination Trial Following Landmark KEYNOTE-689 Results

Phase 2 Strategy Targets Event-Free Survival in Primary Head and Neck Cancer through Checkpoint Inhibitor Combination

ATLANTA, GA, July 24, 2025 – GeoVax Labs, Inc. (Nasdaq: GOVX), a clinical-stage biotechnology company developing immunotherapies and vaccines against cancers and infectious diseases, today announced a strategic shift in its Gedeptin® clinical development program, with a new emphasis on evaluating Gedeptin as a neoadjuvant therapy in combination with pembrolizumab for patients with primary, resectable head and neck squamous cell carcinoma (HNSCC).

The revised strategy follows the landmark results of the KEYNOTE-689 Phase 3 trial, published in the New England Journal of Medicine on June 18, 2025, which demonstrated a significant improvement in event-free survival (EFS) with the addition of perioperative pembrolizumab in resectable, locally advanced HNSCC patients. These data represent the first validated use of PD-1 inhibition in curative-intent HNSCC and have catalyzed a major shift in treatment paradigms toward neoadjuvant immunotherapy...

Alignment, Catalysts & Summary

GeoVax Alignment with Bipartisan Priorities

Bipartisan Priority	GeoVax Alignment
Vaccine Transparency	Full trial data publication, peer review, open science
Multi-Antigen Vaccines	MVA platform supports multiple antigens and provides an alternative to current single-antigen vaccines
Platform Diversification	MVA-based non-mRNA vaccines with validated durable safety
Accelerated U.S. Manufacturing	GeoVax focused on advancing novel, rapid-response MVA manufacturing
Equity and Accessibility	Affordable, stable, scalable solutions
Pandemic Preparedness	GEO-MVA and GEO-CM04S1 clinical trials advancing
Public Trust and Safety	Transparent practices; immunocompromised focus; 50+ years of safety

2025 Milestones & Catalysts



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

- Immunocompromised/stem cell transplant patients: **Additional sites initiated; interim data results**
- Immunocompromised/Chronic Lymphocytic Leukemia (CLL) patients: **Interim analysis indicated GEO-CM04S1 superiority vs mRNA**
- Healthy patient booster trial: **Completed.**



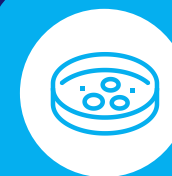
Gedepin® (Solid Tumor Therapy) – Phase 2 Clinical Trial

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



GEO-MVA (Mpox; Smallpox)

- cGMP clinical batch – **Completed**
- **Expedited regulatory path**
- Expanded U.S. & Global stakeholder discussions



Advanced, Transformative Continuous Cell-line MVA Manufacturing

- **Process Development underway; GEO-CM04S1 and GEO-MVA**

Global Strategic Interest in GeoVax

-  **Vaccine Diversification** – Demand for alternatives to single-antigen and mRNA-only approaches.
-  **Pandemic Preparedness** – Nations and multilateral organizations emphasizing secure, diversified supply.
-  **Oncology Synergies** – Immunotherapy and checkpoint inhibitor developers seeking complementary assets.
-  **Manufacturing Innovation** – Rising demand for scalable, cell line–based vaccine production platforms.

GeoVax is positioned at the intersection of these global priorities



Thank you!