

# developing the Pill that Moves the Needle

## **Investor Presentation**

November 2022



#### **Forward-Looking Statements**

This presentation contains forward-looking statements that involve substantial risks and uncertainties. All statements, other than statements of historical facts, included in this press release regarding Vaxart's strategy, prospects, plans and objectives, results from preclinical and clinical trials, commercialization agreements and licenses, beliefs and expectations of management are forward-looking statements. These forward-looking statements may be accompanied by such words as "should," "believe," "could," "potential," "will," "expected," "plan" and other words and terms of similar meaning. Examples of such statements include, but are not limited to, statements relating to Vaxart's ability to develop (including enrolling a sufficient number of subjects and manufacturing sufficient quantities of its product candidates) and commercialize its COVID-19 vaccine candidate and preclinical or clinical results and trial data (including plans with respect to the COVID-19 vaccine product candidates); expectations regarding the timing and nature of future announcements including, those related to clinical trials and results of preclinical studies; Vaxart's expectations with respect to the important advantages it believes its oral vaccine platform can offer over injectable alternatives, particularly for coronaviruses; the potential applicability of results seen in our preclinical trials to those that may be seen in human studies or clinical trials; the expected role of mucosal immunity in blocking transmission of COVID-19; and Vaxart's expectations with respect to the effectiveness of its products or product candidates, including Vaxart's potential role in mitigating the impact of COVID-19 globally. Vaxart may not actually achieve the plans, carry out the intentions or meet the expectations or projections disclosed in the forward-looking statements and you should not place undue reliance on these forward-looking statements. Actual results or events could differ materially from the plans, intentions, expectations and projections disclosed in the forward-looking statements. Various important factors could cause actual results or events to differ materially from the forward-looking statements that Vaxart makes, including uncertainties inherent in research and development, including the ability to meet anticipated clinical endpoints, commencement and/or completion dates for clinical trials or preclinical studies, regulatory submission dates, regulatory approval dates and/or launch dates, as well as the possibility of unfavorable new clinical data and further analyses of existing clinical data; the risk that clinical trial and preclinical study data are subject to differing interpretations and assessments by regulatory authorities; whether regulatory authorities will be satisfied with the design of and results from the clinical studies; decisions by regulatory authorities impacting labeling, manufacturing processes, and safety that could affect the availability or commercial potential of any product candidate, including the possibility that Vaxart's product candidates may not be approved by the FDA or non-U.S. regulatory authorities; that, even if approved by the FDA or non-U.S. regulatory authorities, Vaxart's product candidates may not achieve broad market acceptance; that a Vaxart collaborator may not attain development and commercial milestones; that Vaxart or its partners may experience manufacturing issues and delays due to events within, or outside of, Vaxart's or its partners' control, including the recent outbreak of COVID-19; difficulties in production, particularly in scaling up initial production, including difficulties with production costs and yields, quality control, including stability of the product candidate and quality assurance testing, shortages of qualified personnel or key raw materials, and compliance with strictly enforced federal, state, and foreign regulations; that Vaxart may not be able to obtain, maintain and enforce necessary patent and other intellectual property protection; that Vaxart's capital resources may be inadequate; Vaxart's ability to obtain sufficient capital to fund its operations on terms acceptable to Vaxart, if at all; the impact of government healthcare proposals and policies; competitive factors; and other risks described in the "Risk Factors" sections of Vaxart's Quarterly and Annual Reports filed with the SEC. Vaxart does not assume any obligation to update any forward-looking statements, except as required by law.



# Vaxart's Mission

# Improve global public health by developing a transformative oral tablet vaccine platform

The potential impact is revolutionary, scalable, and could lead to better global public health

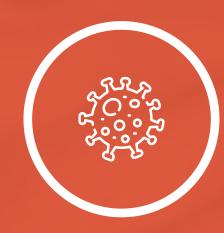
Vaxart is emphasizing its COVID-19 and norovirus vaccine candidates, while advancing other programs that can exploit its platform's advantages





# Investment Highlights









#### **VAAST<sup>TM</sup>** Platform Overview

#### **Oral Vaccine Technology Could Address Viral Variant Challenges**

- coverage

#### **Clinical Pipeline Overview**

- \_
- \_\_\_\_

#### **Resources to Aggressively Continue Clinical Advancement** and Commercialization

Cash: \$131.5MM (as of June 30, 2022)



 Room temperature-stable, oral tablet vaccine that delivers systemic AND mucosal immunity through intestinal epithelial cell uptake with single dose

- Ad5 vector backbone containing antigen of interest (HPV, Norovirus, Influenza, COVID-19, RSV) and TLR3 adjuvant for immuno-stimulating effects

- Completed 15 clinical trials against 7 different viruses, vaccinating 500+ subjects

- Rapidly emerging Sars-CoV-2 variants underscore the importance of vaccine technology that can address future variant challenges

- Cross-reactive nature of mucosal IgA response increases likelihood of variant

- COVID-19 candidate in Phase II clinical trials demonstrated high mucosal antibody and T cell responses as well as cross-reactivity to coronavirus variants

Norovirus candidate in Phase II clinical trials demonstrated bivalent efficacy against both GI.1 and GII.4; Norovirus GI.1 challenge study generated positive preliminary Phase 1b data in elderly adults

Influenza Phase II clinical trial demonstrated improved protection against infection compared to Fluzone with favorable safety profile



#### **Clinical Pipeline Prophylactic & Therapeutic Oral Intestinal Delivery + Targeted Immune Activation**

#### Completed 15 clinical trials against 7 different viruses, evaluating 500+ subjects

#### **PROPHYLACTIC VACCINES**

COVID-19 (S Protein)	Wuhan
COVID-19 (S + N Protein)	Wuhan
COVID-19 New Constructs	Omicron
Norovirus	
Seasonal Influenza	Monovalent
Seasonal Influenza	Quadrivalent
Influenza	Universal
RSV	

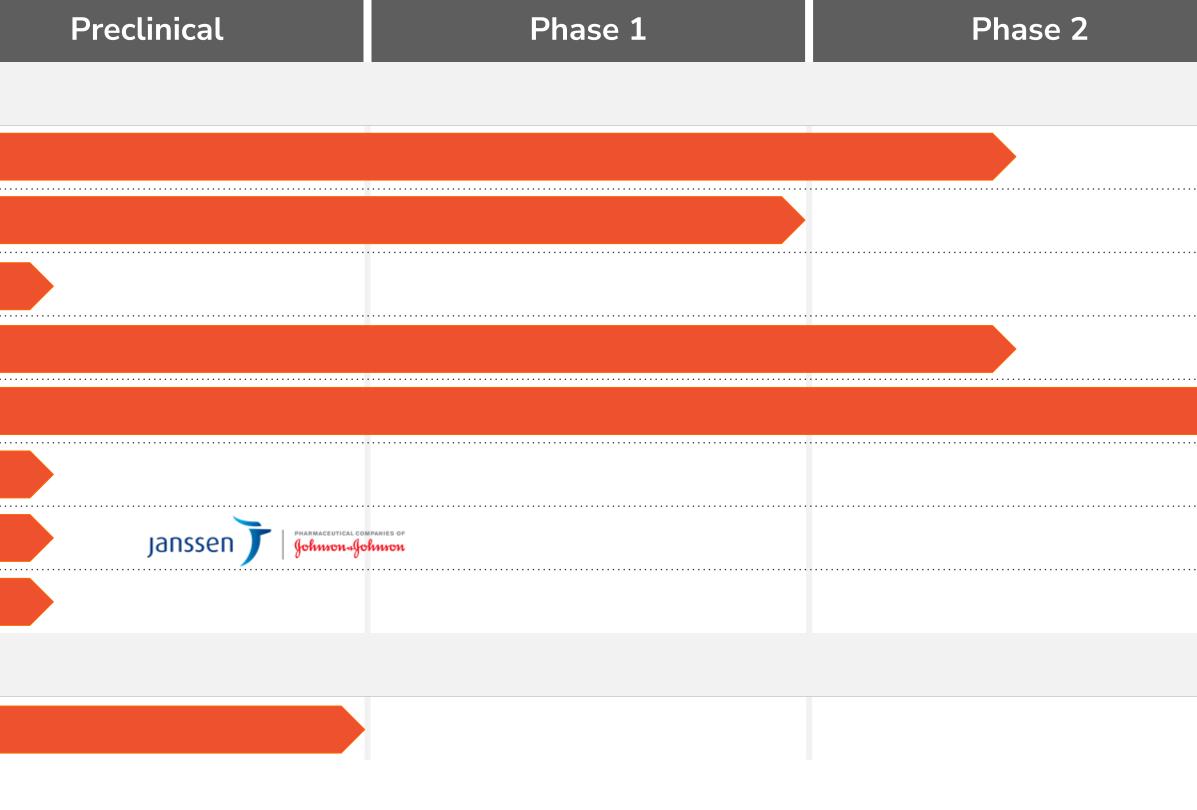
#### THERAPEUTIC VACCINES

HPV

HPV, cervical dysplasia and/or cancer





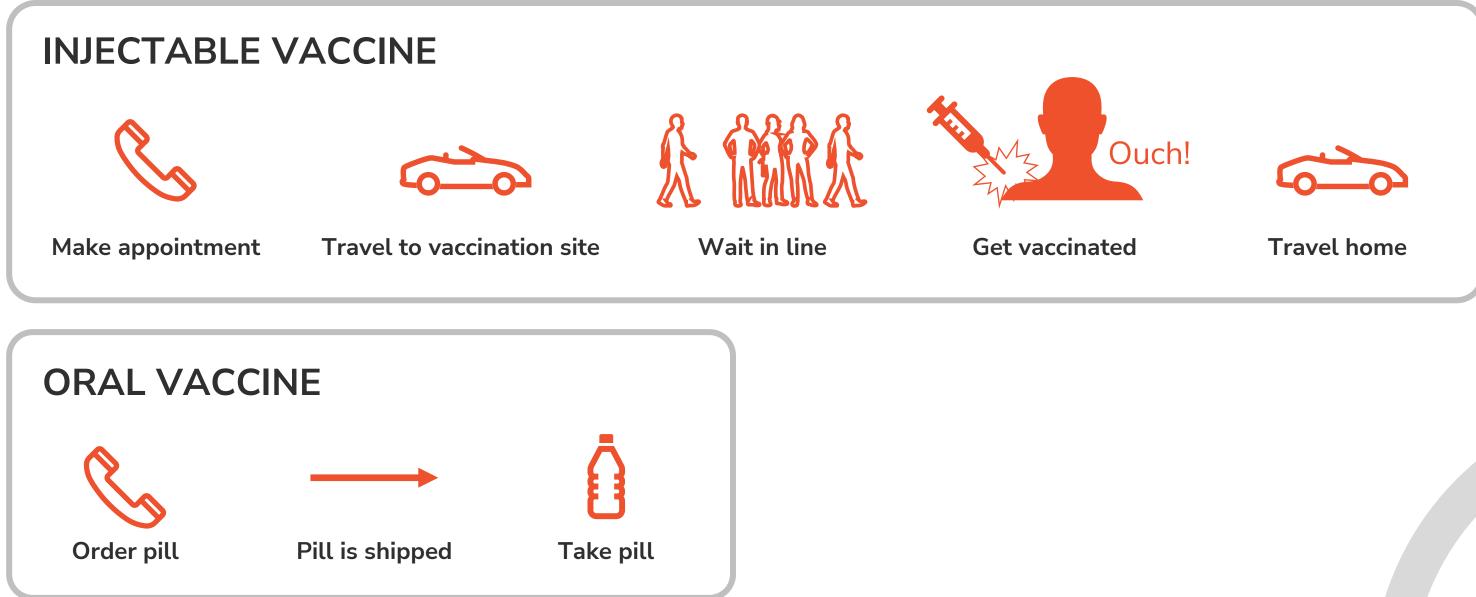






## **Room Temperature Oral Vaccine**

Potential for Significant Advantages in Mass COVID-19 Vaccination Campaigns



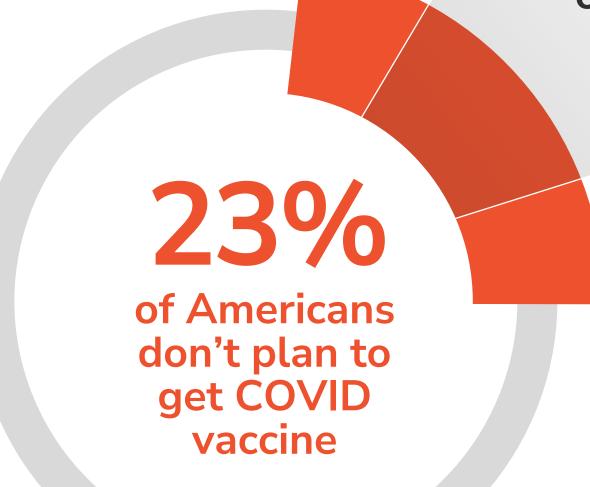
#### A pill option could mean as many as

## more Americans vaccinated

Source: Poll conducted by Quadrant Strategies and commissioned by Vaxart, Inc. Quadrant Strategies conducted an online national survey of 1,500 Americans 18 and older between March 17 and 24, 2021. The margin of error is +/- 3%. Quadrant Strategies is based in Washington, D.C.

# 32%

Would be likely to get the vaccine if offered in pill form







## **Tablet Formulation: Offers Multiple Advantages vs. Injected Vaccines**

#### **For Society**

- Can mitigate vaccine hesitancy
- Can mass vaccinate in days, not months (6+ months with injectables vs. 2-3 days with a pill)
- Substantially reduced environmental footprint: no needles, no syringes, no bandages
- Facilitates social distancing during a pandemic

Tablet Formulation: Offers Multiple Advantages vs. Injected Vaccines



#### For Individuals

- No needles, no needle pain
- No need to set up appointment, drive to/from vaccination site, wait
- Potentially better tolerated

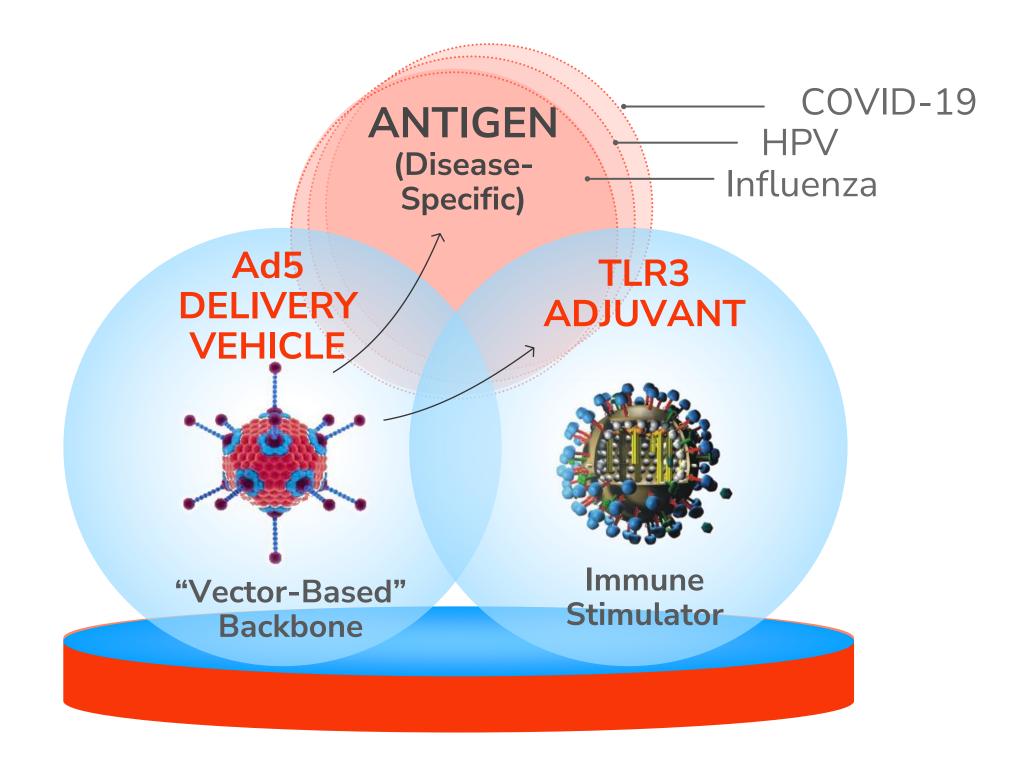
#### **For Governments**

- No need for cold chain
- No need for vaccination centers
- No need for medical personnel to administer



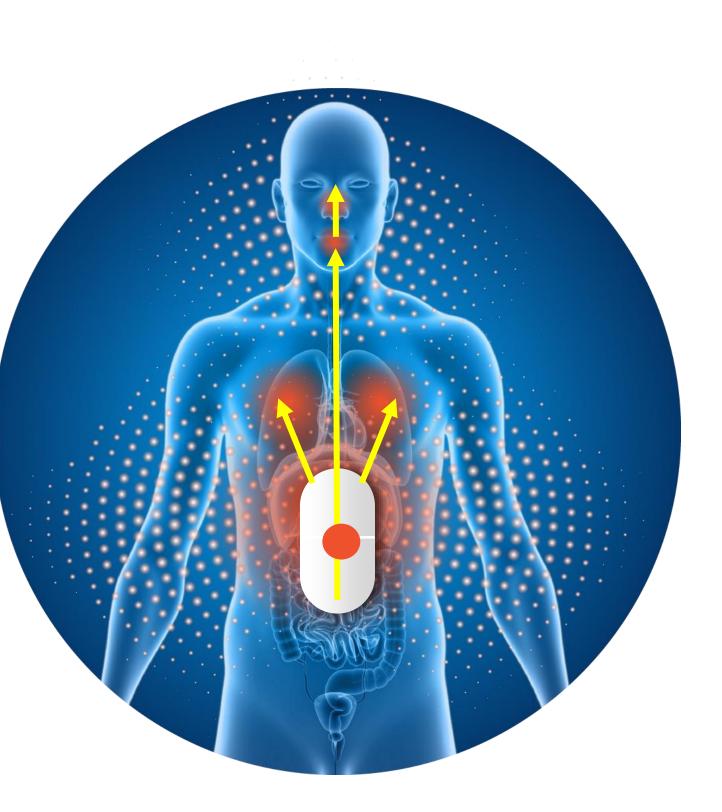
## **Proprietary Oral Vaccine Platform: VAAST<sup>TM</sup>**

Intestinal Delivery + Targeted Immune Action



VAAST<sup>™</sup>: <u>Vector-Adjuvant-Antigen</u> <u>Standardized</u> <u>Technology</u>





#### **Oral vaccine** activates immunity in the right places

Systemic and mucosal immunity:

- 1. Nose
- 2. Lungs
- 3. Intestine
- 4. Mouth

The mucosa is where infection first invades the body and where Vaxart's oral vaccines act to repel infection, potentially providing broader and longer protection against viruses and a reduction in their transmission.

Sources: Saito S, Sano K, Suzuki T, Ainai A, Taga Y, Ueno T, et al. (2019) https://doi.org/10.1371/journal.ppat.1007427. Suzuki T, Ainai A, Hasegawa H. (2017) https://doi.org/10.1016/j.vaccine.2017.07.093 Langel S,, Johnson S, et al. (2021) https://doi.org/10.1101/2021.10.03.462919. Seibert C, Rahmat S, et al. (2013) https://doi.org/10.1128/JVI.00979-13. Muramatsu M, Yoshida R, et al. (2014) https://doi.org/10.1371/journal.pone.0085582.





# COVID-19 Program

#### **Phase II Clinical Trials**





## **COVID-19: Variant Challenge**

Vaccine Development and Distribution Efforts are Being Outpaced by Rapidly Emergent Strains

**Rapid Emergence of New** SARS-CoV-2 Strains



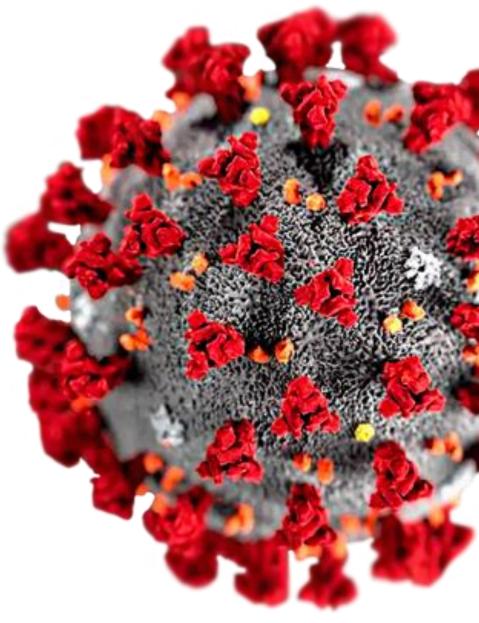
#### We are currently chasing the virus with vaccines like a hamster on a wheel





- Short time to deploy new vaccines with each variant
- Radically shortening time needed for mass vaccine campaigns is essential to ending the hamster wheel paradigm

Vaccine Development





#### Antibody Cross-Reactivity: IgG vs. IgA IgA Mucosal Responses Have Been Shown to Have Greater Cross-Reactivity to Viral Variants Than IgG Systemic Responses

# IgG

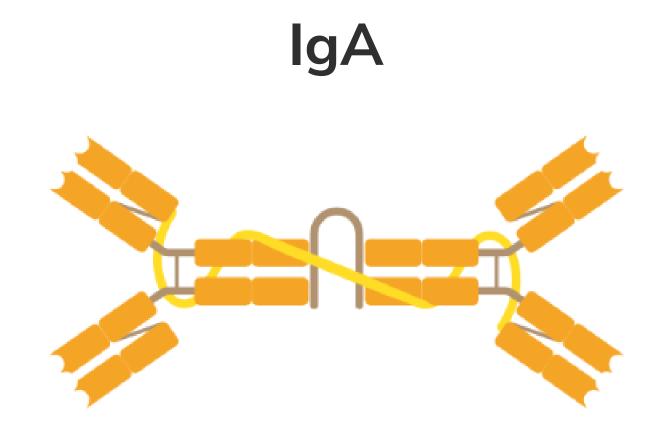
#### **Characteristics:**

- Major antibody isotype induced systemically
- Major isotype produced by mRNA vaccines
- Binding affinity is significantly reduced when challenged with variants
- Has shown poor cross-reactivity with respect to known variants<sup>1,2</sup>

#### **Cross-reactive nature of VAAST<sup>TM</sup> mucosal IgA responses lead to high variant coverage**

Source: <sup>1</sup> Ejemel, et al, *Nature*, 2020; <sup>2</sup> Muramatsu, et al, *PLOS*, 2014.





#### **Characteristics:**

- Predominantly present in the mucosal tissues
- Efficiently produced through VAAST<sup>TM</sup> platform
- Minimal decrease in binding affinity when challenged with variants
- Shown to have greater cross-reactivity against both Sars-CoV-2<sup>1</sup> and Influenza<sup>2</sup> variants



#### S-Only COVID-19 Candidate: Preclinical IgG Response S-Only Candidate Produces Strong, Cross-Reactive Systemic Immune Responses in Non-Human Primates

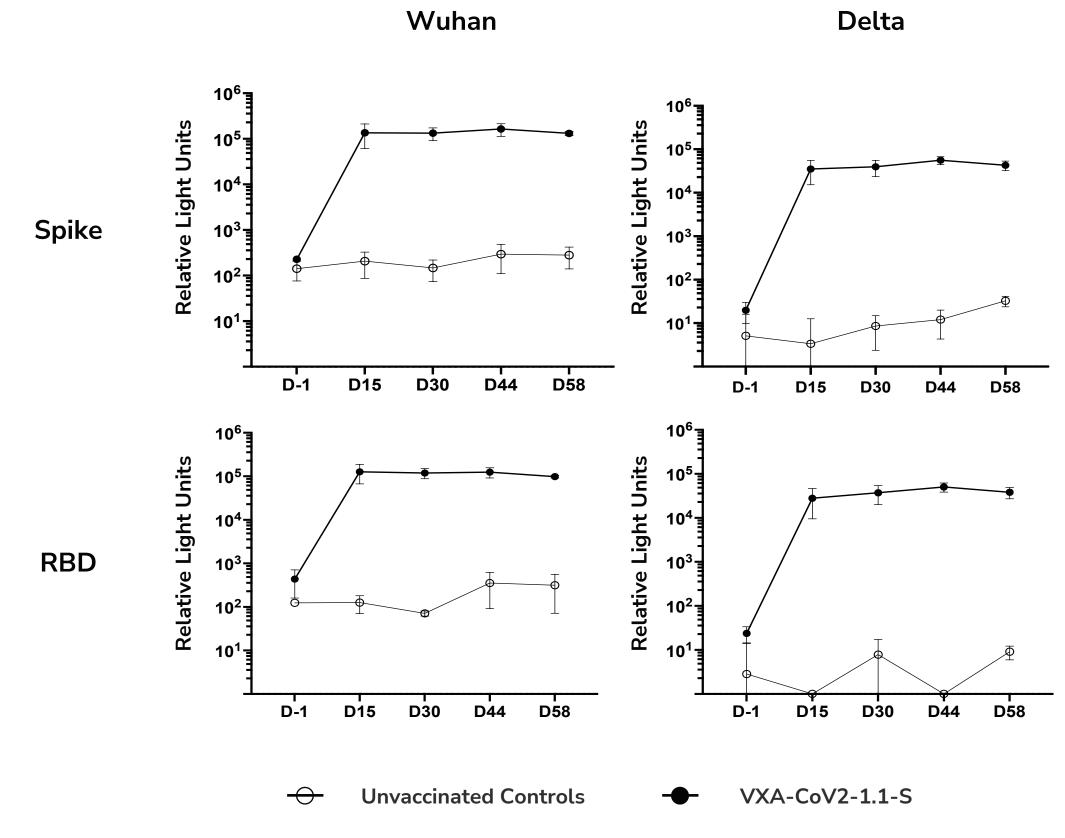
- -VXA-CoV2-1.1-S stimulates IgG serum antibody responses against original strain as well as delta, alpha, gamma and omicron variants<sup>1,2</sup>
- -Antibodies recognize viral spike protein and receptor binding domain (RBD) of SARS-CoV-2
- Serum IgG antibody responses are similar to other vaccines evaluated in NHP studies<sup>3-6</sup>

Four macaques in each group were immunized intranasally with a prime boost regimen on day 0 and 28

Sources: <sup>1</sup> Flitter BA et al. *bioRxiv*. February 2022. <sup>2</sup> Omicron data on file with Vaxart. <sup>3</sup> Mercado NB et al. *Nature*. 2020. <sup>4</sup> Yadav PD et al. *Nature* Comm. 2021. <sup>5</sup> Corbett KS et al. Science. 2021. <sup>6</sup> Brouwer PJM et al. Cell. 2021.



Serum IgG Response





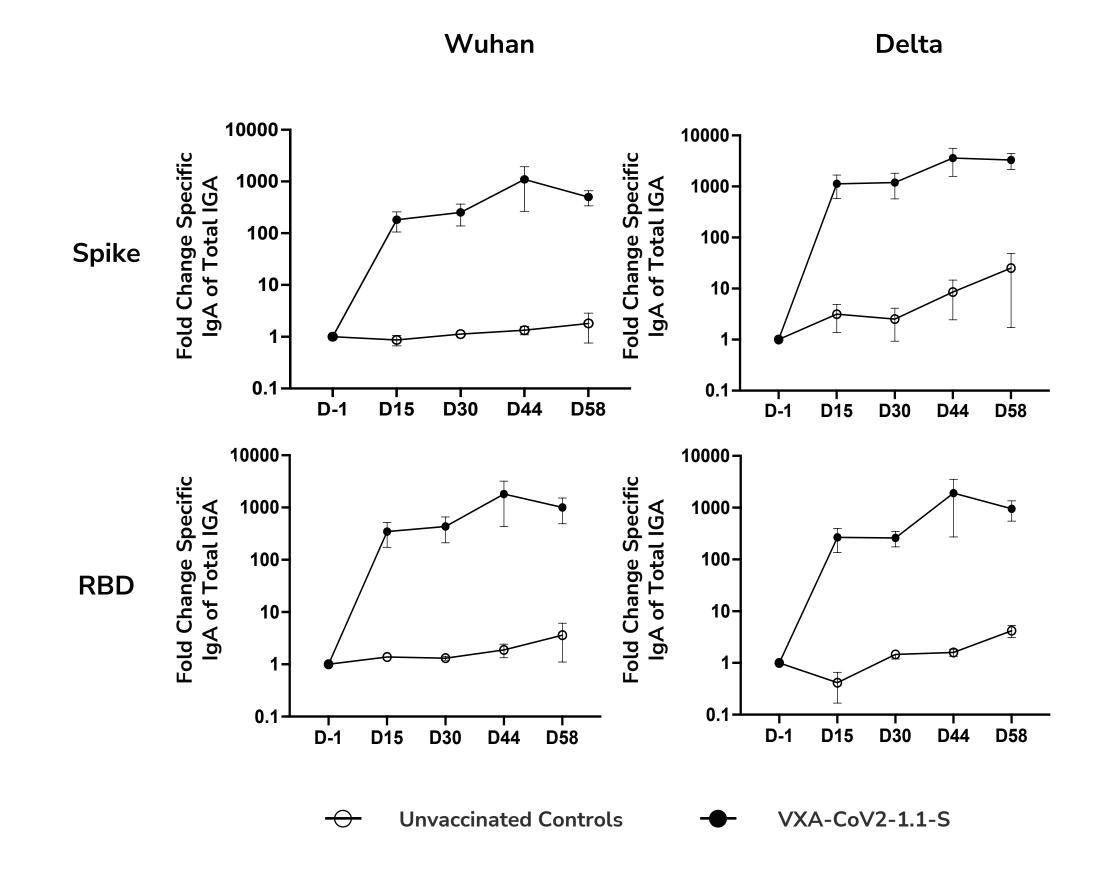
#### S-Only COVID-19 Candidate: Preclinical IgA Response S-Only Candidate Produces Strong, Cross-Reactive Mucosal Immune Responses in Non-Human Primates

- -VXA-CoV2-1.1-S stimulates IgA mucosal antibody responses against original strain as well as delta, alpha, gamma and omicron variants<sup>1,2</sup>
- Mucosal IgA responses are significantly elevated following a single dose of VXA-CoV2-1.1
- –IgA increases >1,000x observed

Sources: <sup>1</sup> Flitter BA et al. *bioRxiv*. February 2022. <sup>2</sup> Omicron data on file with Vaxart.



Nasal IgA Response





## Vaxart's Vaccine Candidates Decrease Viral Load and Viral Shedding in **Nasal Secretions**

#### All rAd5 vaccines tested were immunogenic in African **Green Monkeys**

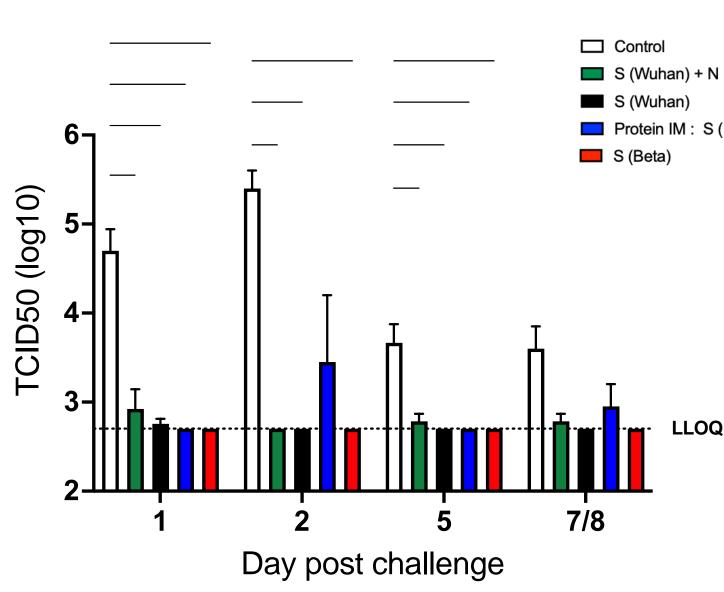
- S (Wuhan) + N and S (Wuhan) vaccines induced highly cross-reactive serum IgG and mucosal IgA responses to multiple variants of concern
- S (Beta) vaccination induces strong antibody responses to homologous spike protein

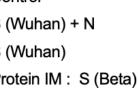
Functional nasal antibody responses were enhanced after rAd5 mucosal boost administration

Viral shedding in the nasal passages was significantly reduced in immunized animals following beta variant SARS-CoV-2 challenge



#### Nasal Swab TCID<sub>50</sub>





# **COVID-19: Vaccine Constructs**

Vaxart is Developing Two Different COVID-19 Candidate Constructs

#### VXA-CoV2-1.1-S (Expresses only S): **Currently Enrolling Phase II**

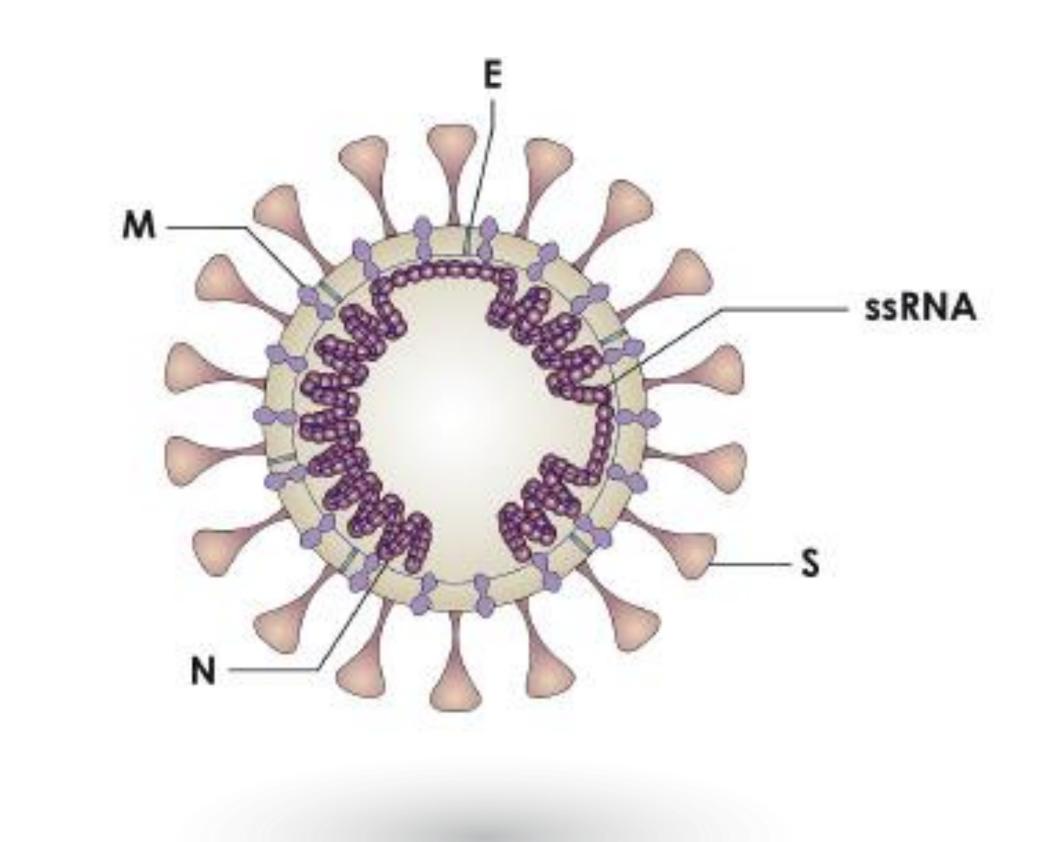
 Much higher serum antibody responses than the S + N candidate in NHP study

#### VXA-CoV2-1 (Expresses S + N): **Completed Phase I**

- Highly immunogenic on eliciting T cells, to both S and N
  - T-cell responses to the S appear much higher than those of injectable mRNA vaccines in Phase 1 study<sup>1</sup>

<sup>1</sup> Data on file with Vaxart





## **COVID-19: Phase | Study Design**

Favorable Safety Profile Supports Potential of Single-dose Oral Tablet Vaccination

	Vaccine	Dose	# of Doses	# of Subjects
Cohort 1 (Sentinels)	VXA-CoV2-1	1x10 <sup>10</sup> I.U.	2	5
Cohort 2	VXA-CoV2-1	1x10 <sup>10</sup> I.U.	1	15
Cohort 3	VXA-CoV2-1	5x10 <sup>10</sup> I.U.	1	15



Solicited Symptom Days (1 – 8)	Low Dose (n=20)	High Dose (n=15)
No. (%) with Solicited Symptoms	4 (20)	10 (66.7)
General Symptoms		
Malaise/Fatigue	2 (10)	2 (13.3)
Myalgia (Muscle Pain)	1 (5.0)	1 (6.7)
Anorexia	0 (00)	2 (13.3)
Headache	3 (15)	2 (13.3)
Fever	0 (00)	1 (6.7)
Gastrointestinal Symptoms		
Diarrhea	0 (00)	4 (26.7)
Nausea	0 (00)	5 (33.3)
Vomiting	0 (00)	0
Abdominal Pain	1 (5.0)	2 (13.3)

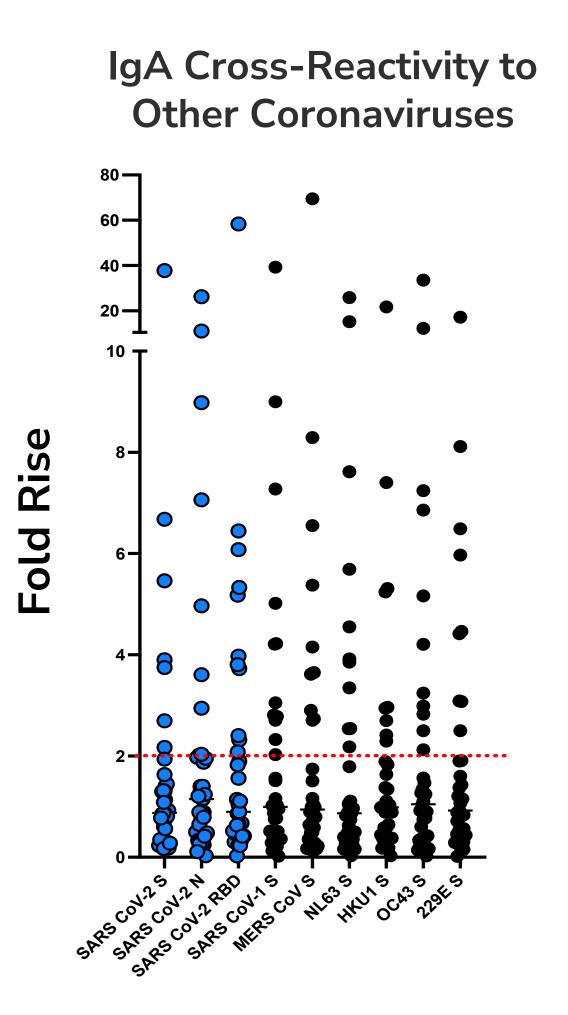
• Most Solicited Adverse Events mild and transient; few moderates @ Days 2 to 6

• 6 Mild unsolicited AEs: sore throat, epistaxis, chills, dry sinus, back pain & testicular pain

No SAEs or MAAEs reported to date

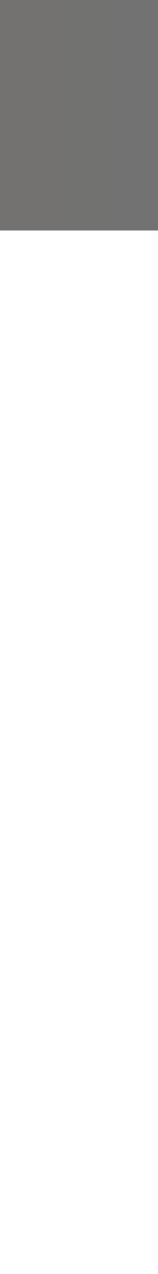


#### **COVID-19: Phase | Cross-Reactivity Responses** Immunized Subjects Have Increased Cross-Reactive Nasal IgA Response to Other Coronaviruses





- –Increased IgA antibodies to SARS-Cov-2 also led to increased antibody responses to the S protein of other coronaviruses including SARS-CoV-1, MERS, and endemic common cold viruses
- -Beneficial for maintaining immunization protection against various COVID-19 variants (delta, omicron, etc.)
- Graph shows increase in nasal IgA at d29 over d1 sample, normalized for amounts of total IgA
- Preliminary data



#### **COVID-19: Phase I T Cell Responses** Robust T Cell Response

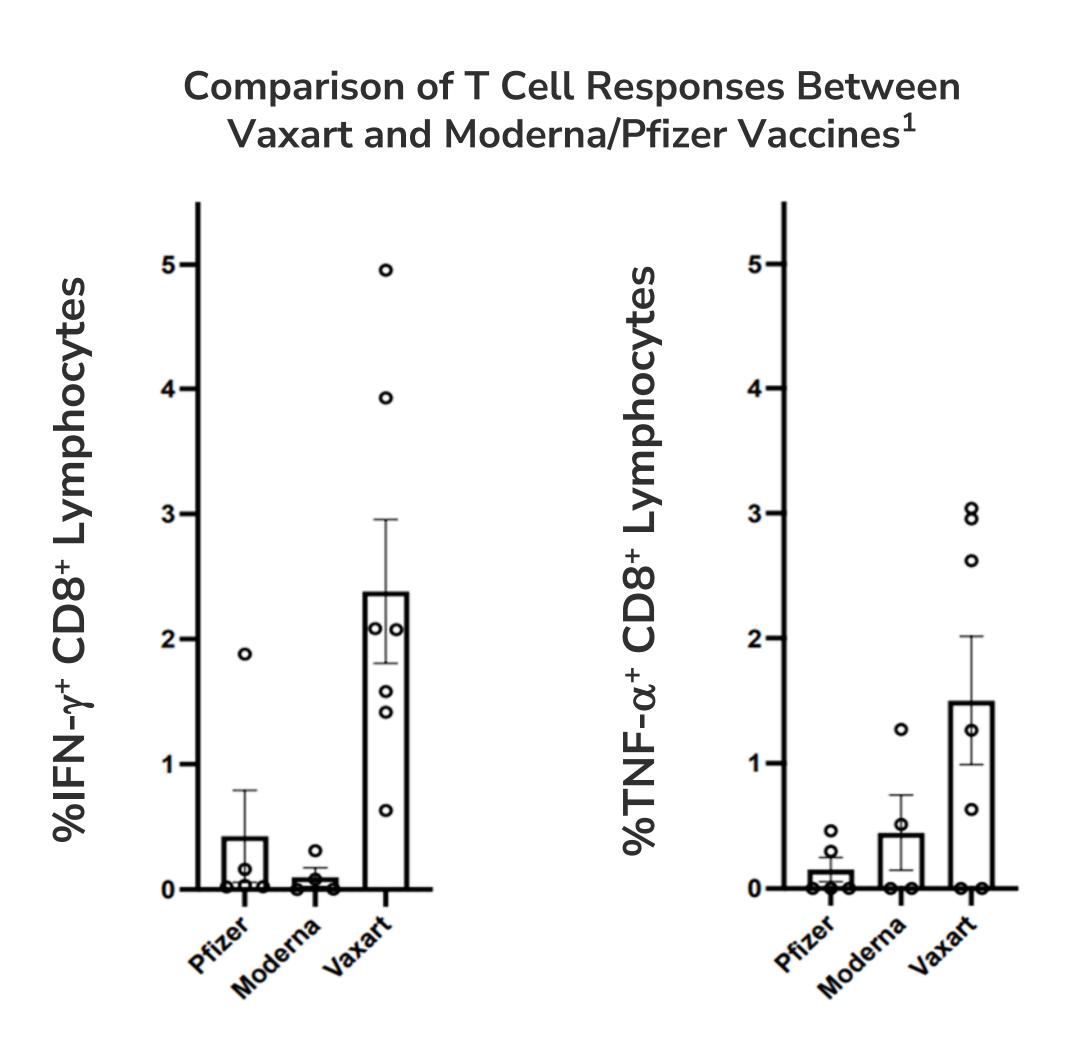
#### Induction of T cells responses measured 7 days after the first dose. **Increase over day 1 for IFN-**γ and TNF- $\alpha$ are shown.

 Frozen PBMC samples from Vaxart's Phase I trial were compared to PBMCs from volunteers that were immunized with the Pfizer or Moderna vaccines under EUA. Analysis was done at the same time points post immunization

- Preliminary data

<sup>1</sup> Data on file with Vaxart









# Norovirus Program

#### Phase I Clinical Trials





#### **Norovirus: Market Opportunity Presents Significant Threat to Children and Seniors**

# \$10.6 billion

U.S. market opportunity

# 21,000,000

illnesses/year caused by norovirus in the U.S.

## **15%**<sup>1</sup>

of children under 5 catch norovirus annually

7.5%1

of age 65+ get sick, most hospitalizations in this group

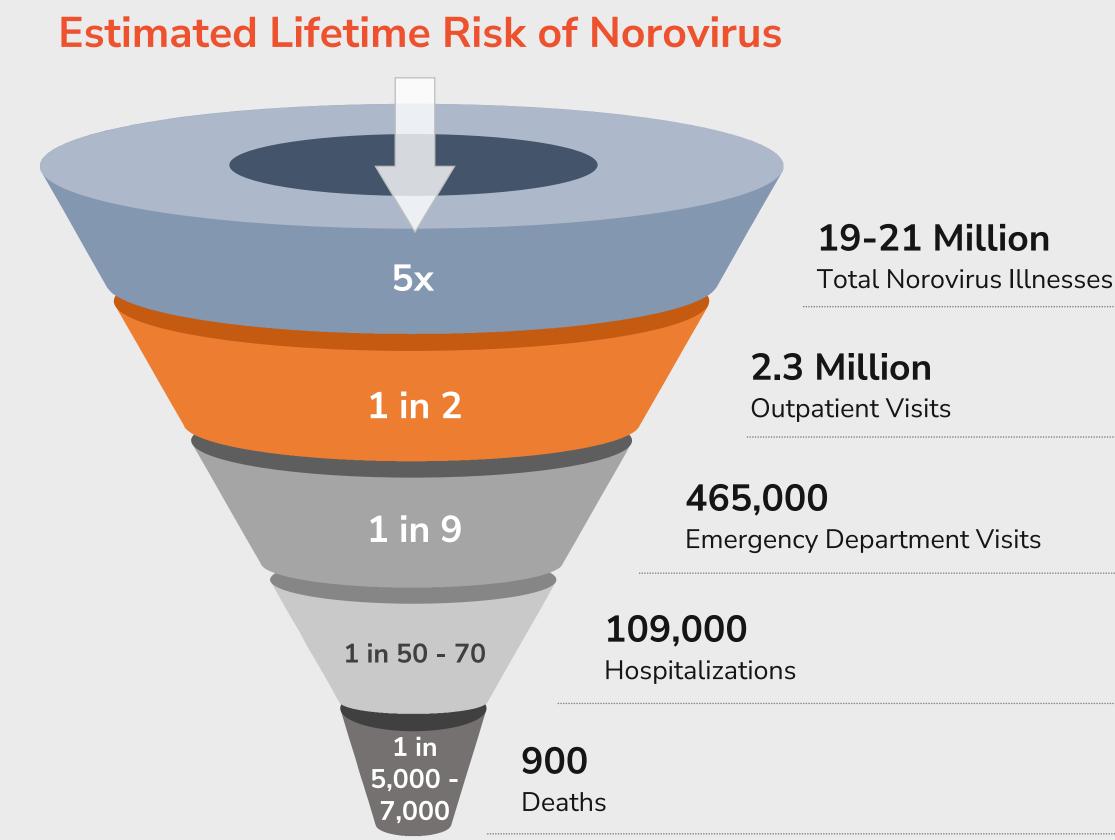
# 3,000,000

sets of parents need to take time from work (2.2 days) to care for these children

<sup>1</sup>Economic burden of disease concentrated in these two groups

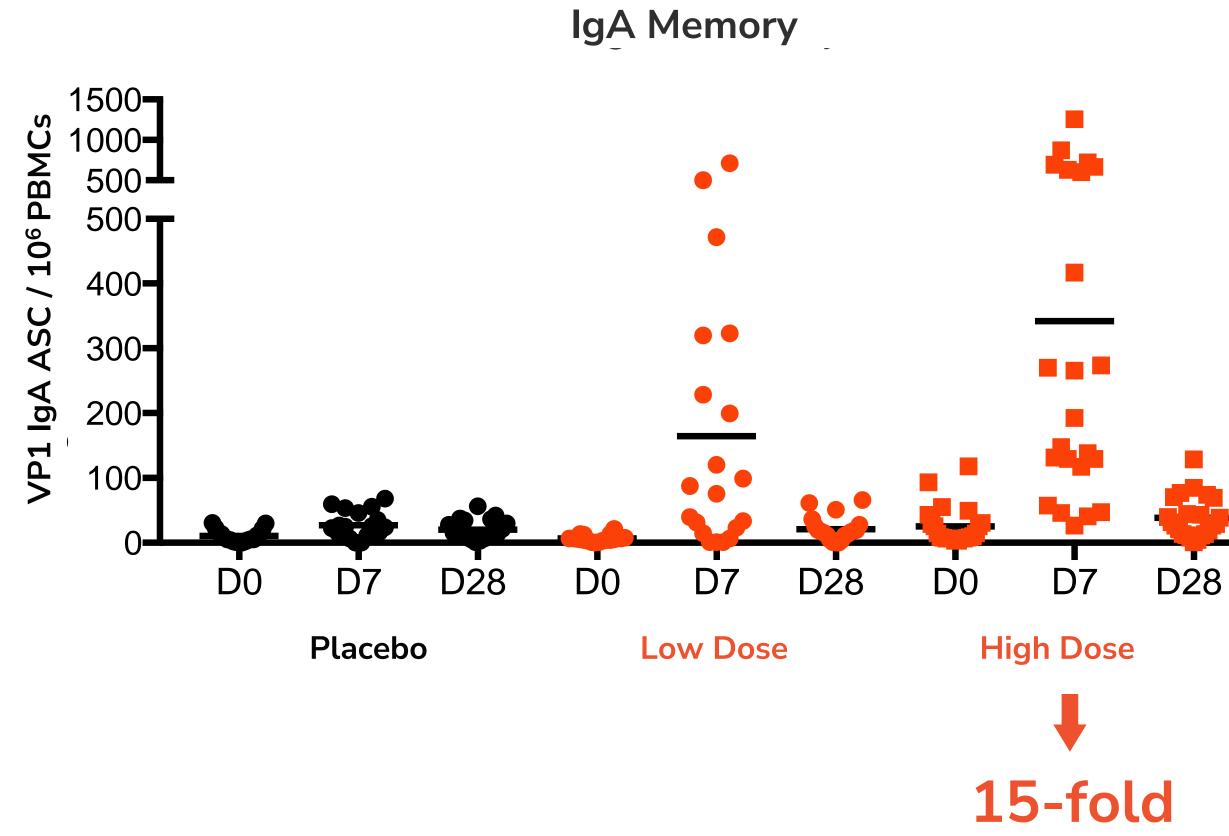
Source: Incidence of Norovirus and Other Viral Pathogens That Cause Acute Gastroenteritis (AGE) among Kaiser Permanente Member Populations in the United States, 2012–2013, Grytdal et al, PLOS 1, 2016





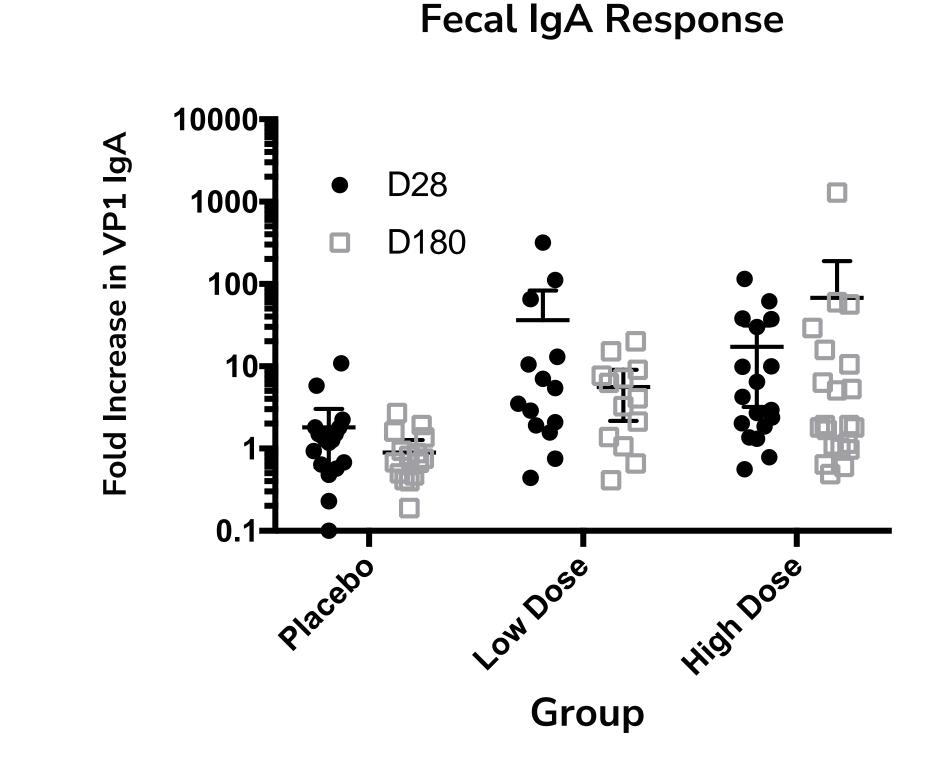
Source: CDC website (https://www.cdc.gov/norovirus/php/illness-outbreaks.html

#### Norovirus: Phase I Mucosal Responses Memory and Effector Responses on the Same Order of Magnitude as Infection



Fecal IgA measured by Marcela Pasetti, U Maryland, Baltimore Source: Kim, et al, JCI Insight, 2018





Fecal samples show durable fecal antibody response

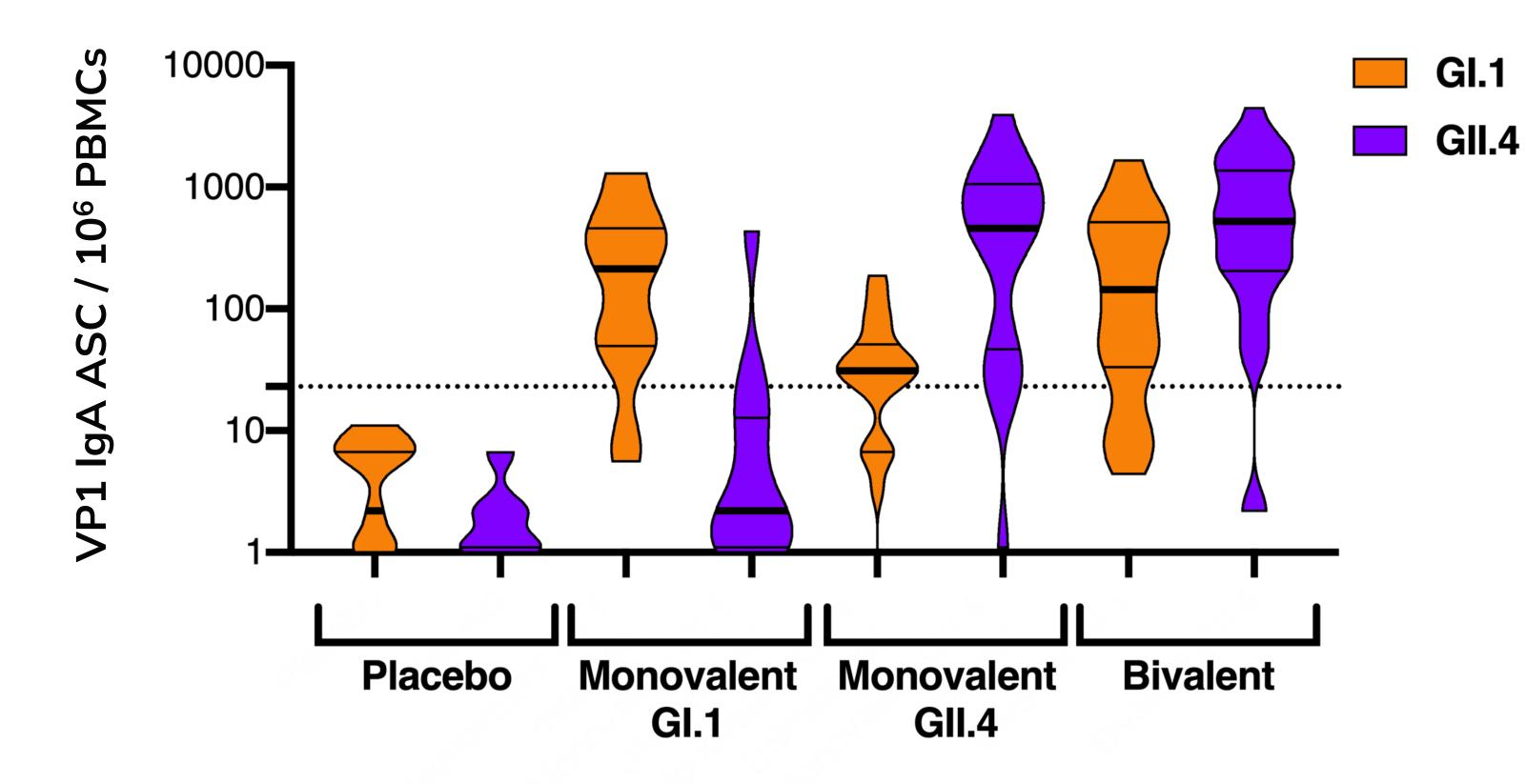
**GM** increase



## Norovirus: Phase I Bivalent Responses

**Bivalent Results: No Interference, Strong Antigen-Specific B Cell Induction** 

ASC IgA Responses Day 8<sup>1</sup>



<sup>1</sup> Data on file with Vaxart



#### SES B Cell Induction

- Both monovalent GI.1 and GII.4 constructs elicit strong IgA mucosal response
- Bivalent response elicits strong antigen-specific
  B cell induction with no cross-interference



# Influenza Program

#### **Phase II Clinical Trials**





## Influenza Vaccine Market Opportunity

# \$5+ billion

market opportunity in U.S.

# 200,000,000

doses are planned for 2022 in the U.S.

# 35,000,000

illnesses/year caused by influenza in the U.S.

# 172,000,000

doses distributed in 2021 in the U.S.

Among premium vaccines, 2021 prices were

- FLUAD Quad: **\$66**/dose
- FLUZONE HD Quad: **\$65**/dose
- Flublok Quad: **\$65**/dose

Source: Centers for Disease Control and Prevention – 2019-2020 Flu Season; CMS – Seasonal Influenza Vaccines Pricing; Fierce Pharma - Sanofi, GSK and Segirus prep for near-record flu shot sales as COVID's delta variant cooks up 'recipe for disaster'



#### Influenza represents a significant burden in U.S. (2019-2020 Flu Season)

#### 35,000,000 Illnesses

#### 380,000 Hospitalizations

#### 20,000 Deaths





# Influenza: Phase II Efficacy Comparison to Fluzone

**Results Show Improved Efficacy Over Fluzone Against Infection** 

Phase II clinical trial comparing Vaxart's oral tablet flu vaccine and Sanofi's Fluzone injectable flu vaccine

- Compared to those unvaccinated, illness rates were 39% lower in those taking Vaxart's oral vaccine, and 27% lower in those vaccinated with Fluzone
- BARDA-funded Phase II clinical trial

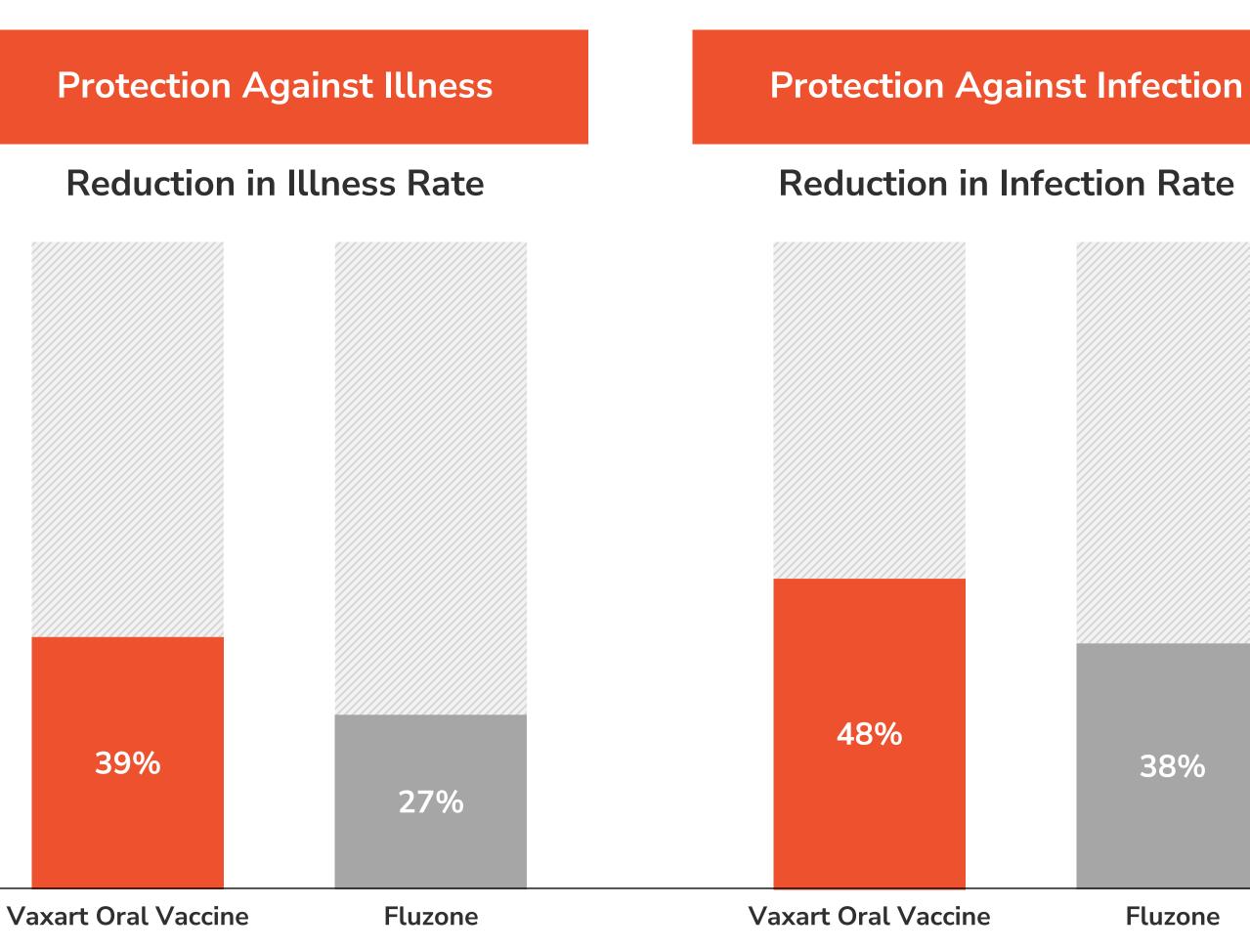




THE LANCET Infectious Diseases

Source: Liebowitz, et al, Lancet ID, 2020



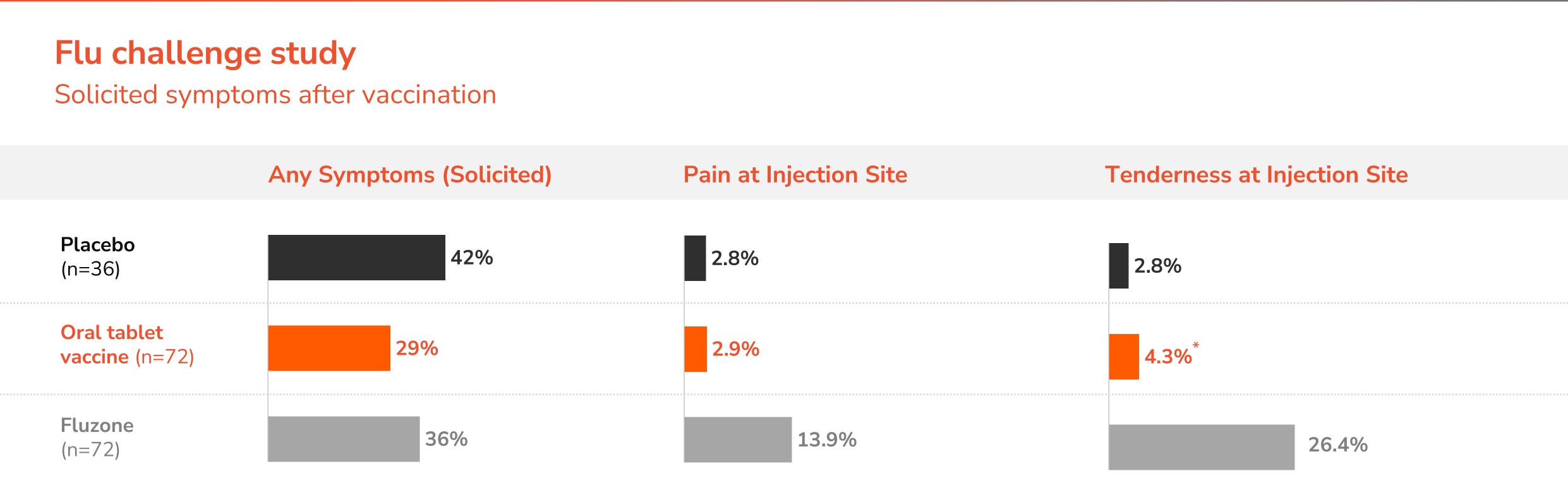






## Influenza: Phase II Safety Data

Favorable Safety Profile and Tolerability Comparable to Placebo in Influenza



\* Placebo injection given to those receiving the oral vaccine

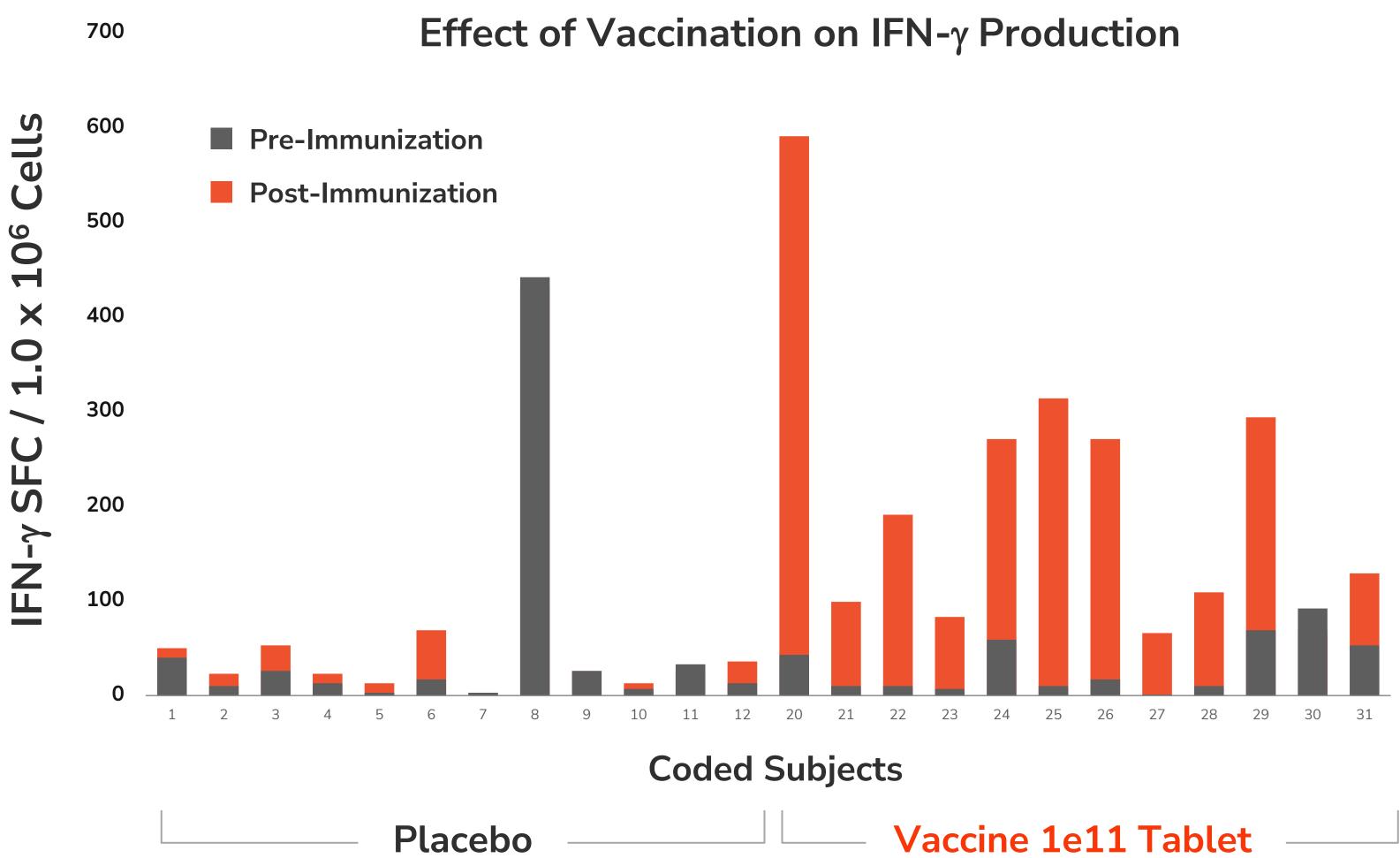
Source: Liebowitz et al., Lancet Infectious Diseases, Jan 2020



Pain: A Key Reason for Which People Don't Like Needles



#### Influenza: Oral Vaccine Elicits Robust T Cell Response Phase I T Cell Data





#### Induction of T cell responses in treatment vs. placebo group with significantly higher IFN-γ score post-immunization

- IFN- $\gamma$  responses 7-14 days post immunization
- Measured using ELISPOT \_\_\_\_



# **RSV Program**

Preclinical





## **RSV Vaccine Market Opportunity**

# \$5+ billion

market opportunity in U.S.

hospitalizations of children < age 5

177,000+

58,000+

hospitalizations of adults 65+

2,100,000 outpatient visits for age 5 and younger caused by RSV in the U.S.

14,000

**RSV** is the most common cause of bronchiolitis and pneumonia in children under one year of age in the U.S.

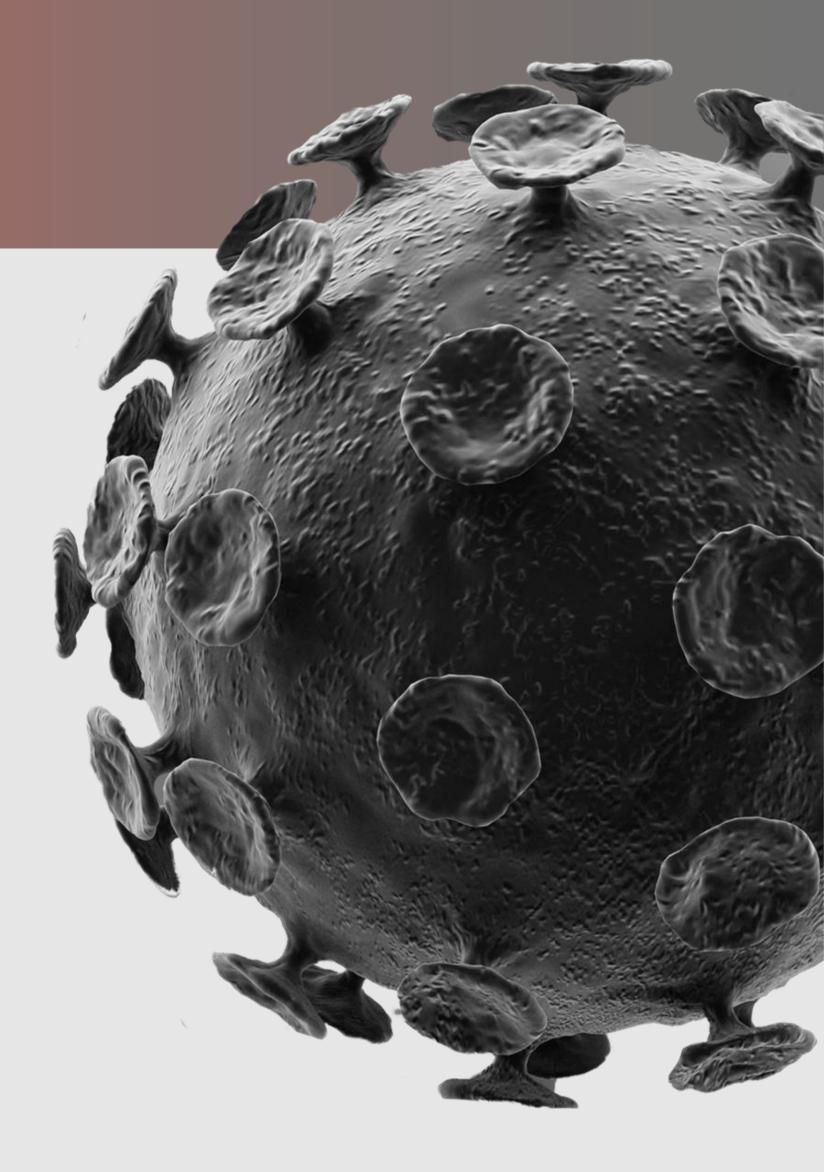
\$6+ billion

in hospitalization costs each year caused by RSV

Source: Centers for Disease Control and Prevention – Emergency Preparedness - RSV



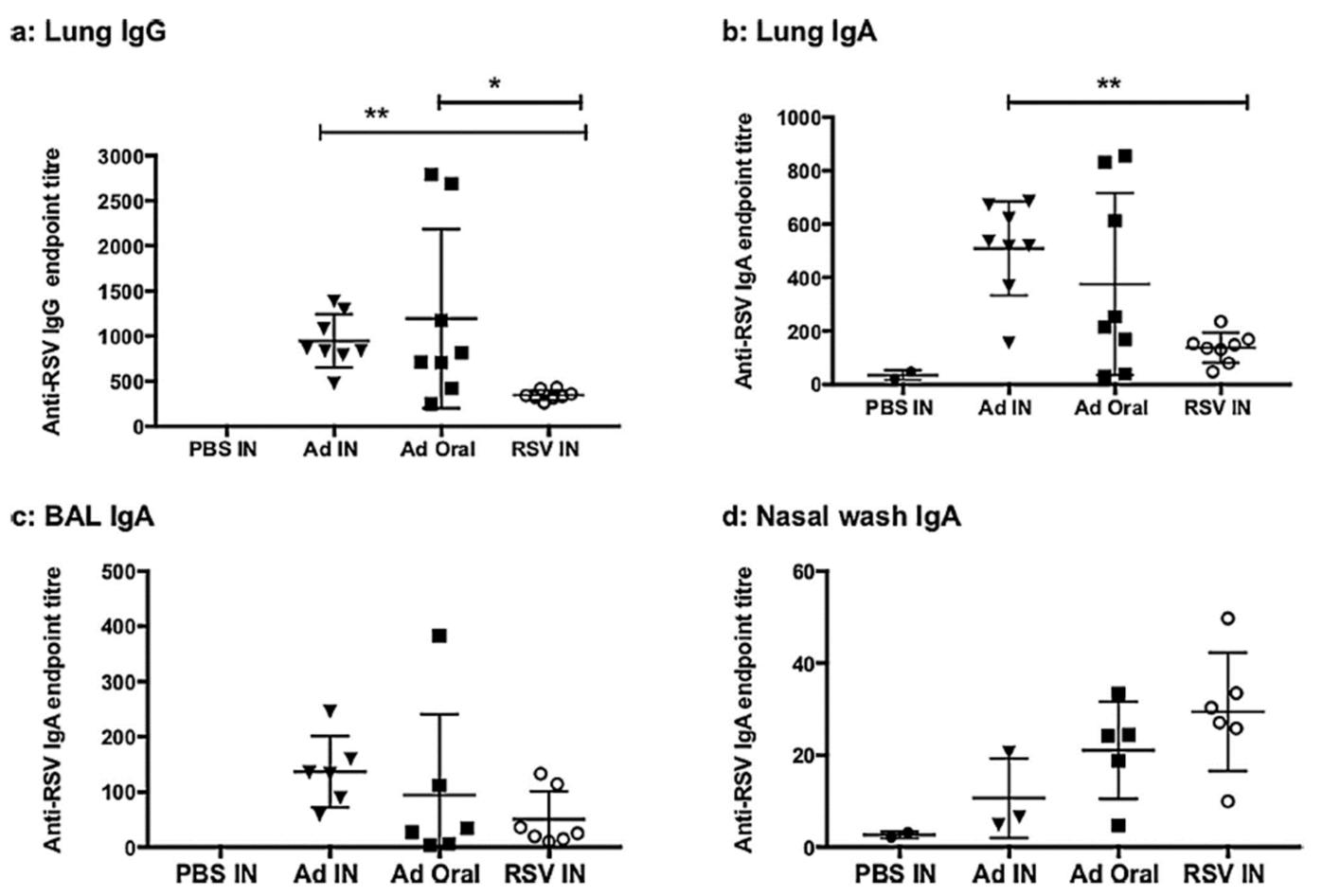
# deaths linked to RSV annually





#### **RSV: Preclinical Data**

**Oral Vaccine Elicits Robust Anti-RSV IgG and IgA Responses** 



Source: Joyce et al., Vaccine, May 2018



Ad-RSVF immunization by oral or intranasal (IN) route induced significantly greater respiratory humoral immunity compared to **RSV** infection.

- Cotton rats (n = 8 per group) were immunized with 1e10 IFU of Ad-RSVF by the intranasal or oral route
- One group was treated with PBS intranasally, and one group received RSV A2 by the IN route
- Animals were immunized or infected with RSV on days 0 and 28 and samples were harvested on day 42



# HPV Program

Preclinical





## **HPV Vaccine Market Opportunity**

# \$600+ million

market opportunity in U.S.

43,000,000 illnesses/year caused by HPV in the U.S. – most common STI

46,000

56%

female

cancer cases associated with HPV in the U.S. annually

# 200,000

cervical pre-cancer cases diagnosed in U.S. annually

36,500

cancers cases caused by HPV in the U.S. annually

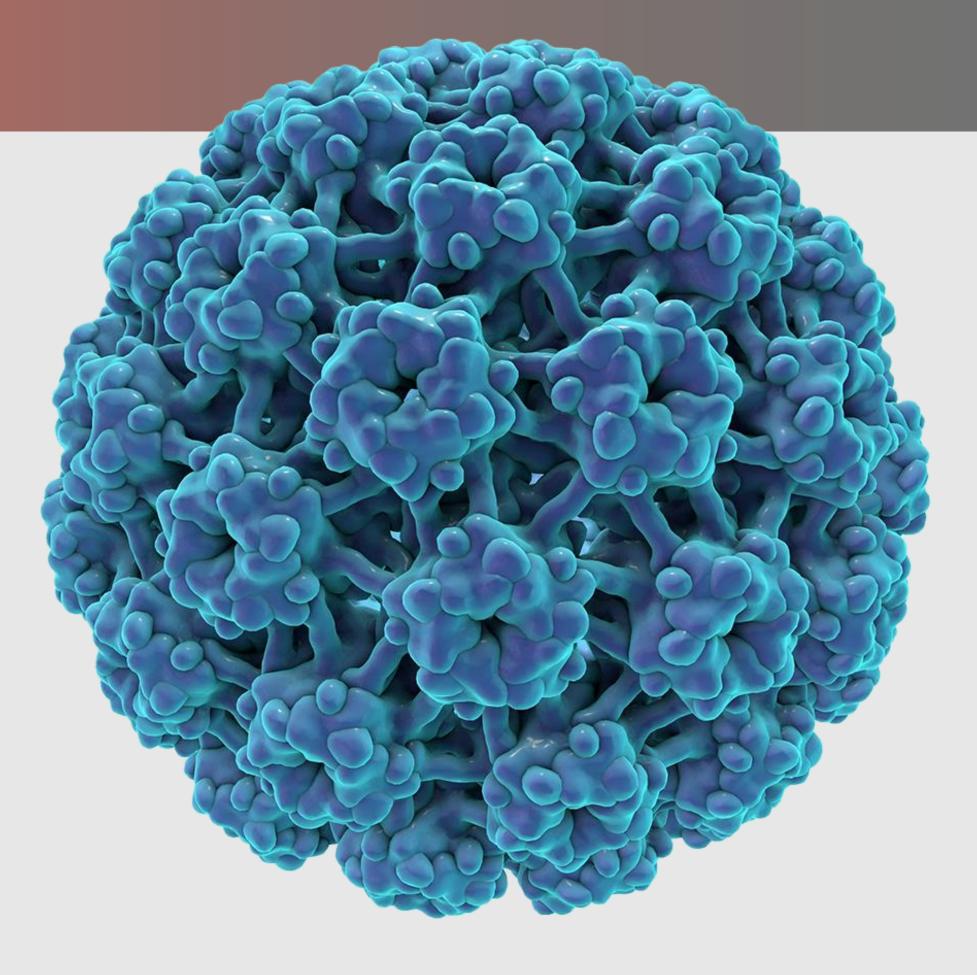
vaccination coverage – far below national goals of 80%

52%

male

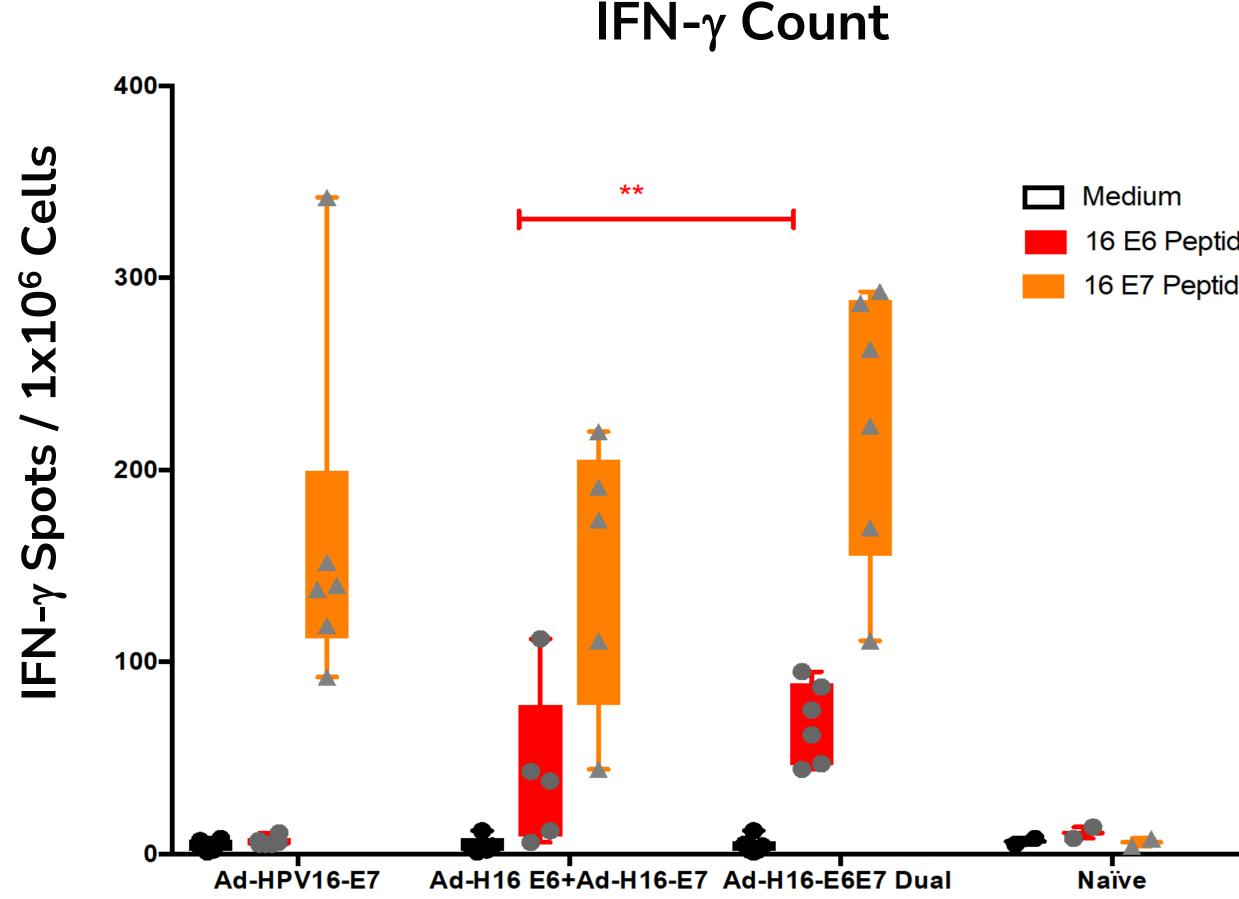
Source: Kaiser Family Foundation (KFF) – Women's Health Policy – The HPV Vaccine: Access and Use in the U.S. (12 July 2021); Centers for Disease Control and Prevention – Cancer Home – HPV and Cancer – HPV-Associated Cancer Statistics.







#### HPV: Robust T Cell Responses to Both HPV Antigens IFN- $\gamma$ Responses Significantly Increased with Vaxart's Oral Vaccine



16 E6 Peptide Pool

16 E7 Peptide Pool

Significant increase in IFN- $\gamma$ levels in response to oral vaccine with both E6/E7 antigens separately as well as combined

- C57BL/6 mice immunized days 1 & 28
- Splenocytes harvested day 42



# **HPV: Efficacy in Tumors**

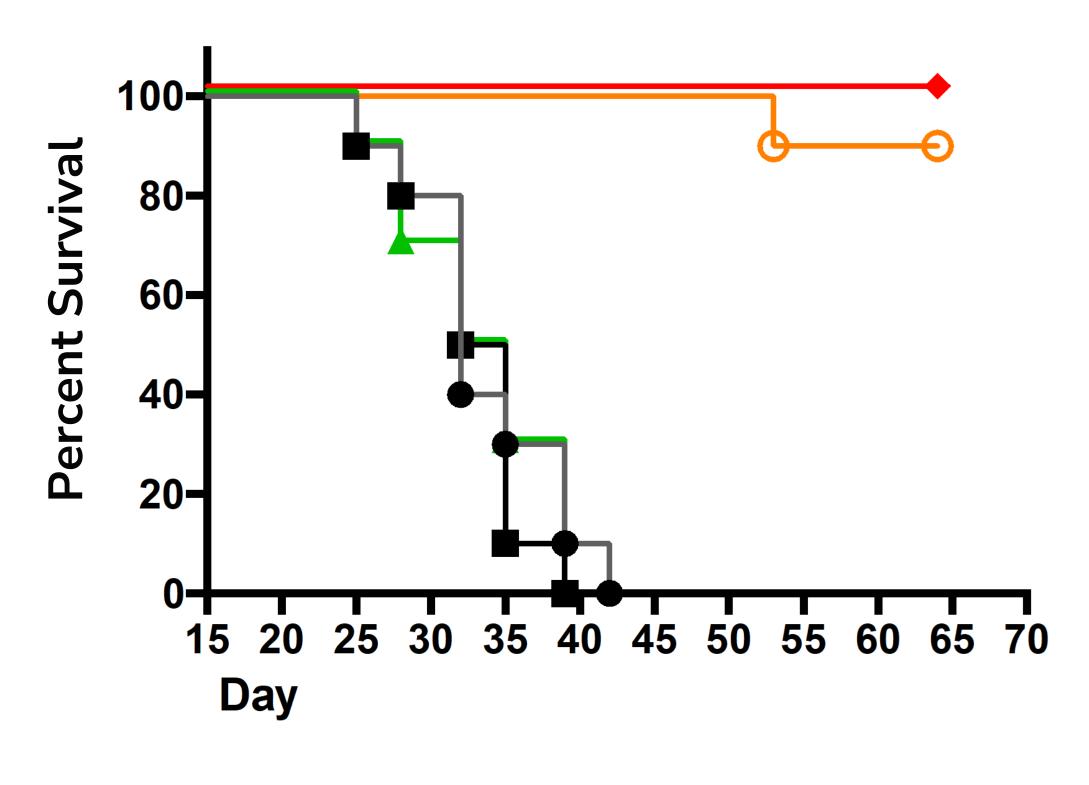
Significant Decreases in Tumor Volume Coupled with Significant Increase in Mouse Survival

#### 2000-Tumor volume (mm<sup>3</sup>) 1500-1000-500-15 20 25 30 35 40 45 50 55 60 10 5 V 0 Day

**Tumor Volume** 

- G1 Untreated



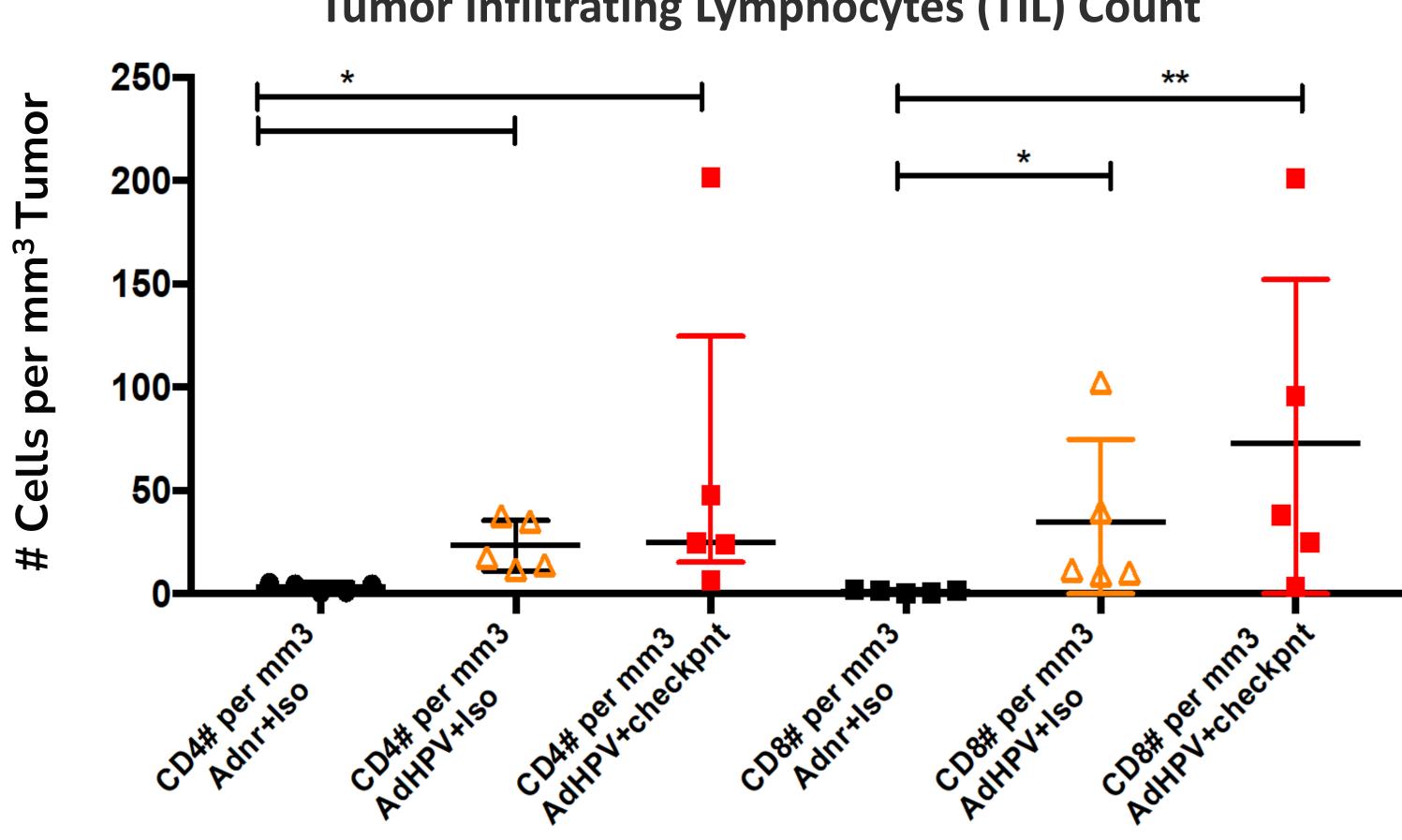


#### **Survival**

🗕 G2 Ad-nr + Iso 🛛 🛧 G3 Ad-nr + checkpoint inhib 🛛 🔶 G4 Ad-HPV+ Iso 🚽 G5 Ad-HPV + checkpoint inhib



#### HPV: Dual Vaccine Induces Both CD4 and CD8 TILs **Essential for Effective and Durable Anti-Tumor Response**



#### **Tumor Infiltrating Lymphocytes (TIL) Count**



- Oral vaccine elicits CD4+ and CD8+ TIL infiltration
- Further increased in combination with checkpoint inhibitors
  - Two immunizations (days 13 and 20)
  - Harvested at day 24
  - TILs counted by FACS \_\_\_\_



#### Vaxart Team **Deep Expertise Provides Strong Foundation for Success**



#### ANDREI FLOROIU, MBA

**Chief Executive Officer** 









#### **RAYMOND STAPLETON, PHD**

Chief Technology Officer







#### SEAN TUCKER, PHD Founder and Chief Scientific Officer





#### JAMES CUMMINGS, MD

**Chief Medical Officer** 







ED BERG SVP and General Counsel

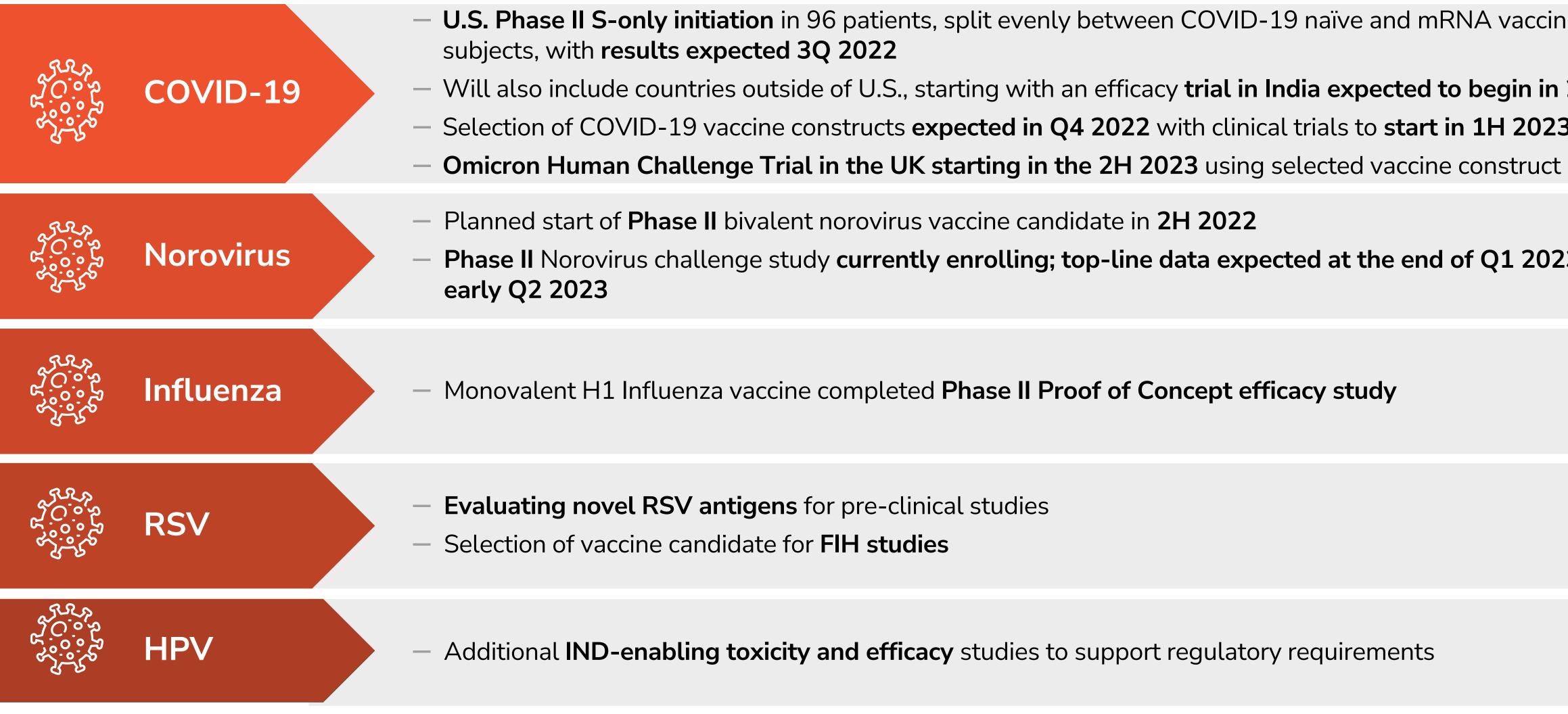
BIOMARIN Unstol Myers Squibb

MERCK SONOFI SANDOZ





#### **Near-Term Development Plan for Oral Vaccine Programs** Series of Upcoming Inflection Points Across Multiple Indications





**U.S. Phase II S-only initiation** in 96 patients, split evenly between COVID-19 naïve and mRNA vaccinated

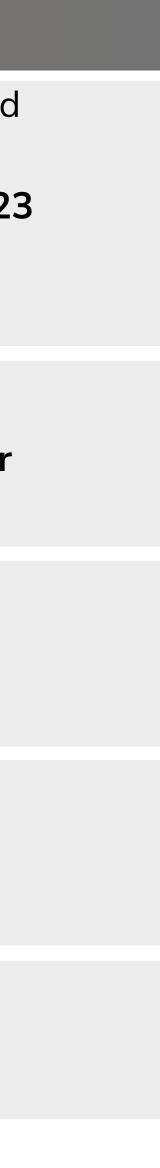
Will also include countries outside of U.S., starting with an efficacy trial in India expected to begin in 2023 Selection of COVID-19 vaccine constructs expected in Q4 2022 with clinical trials to start in 1H 2023

Planned start of **Phase II** bivalent norovirus vaccine candidate in **2H 2022** 

Phase II Norovirus challenge study currently enrolling; top-line data expected at the end of Q1 2023 or

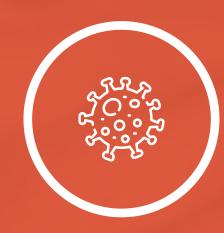
Monovalent H1 Influenza vaccine completed Phase II Proof of Concept efficacy study

Additional IND-enabling toxicity and efficacy studies to support regulatory requirements



# Investment Highlights









#### **VAAST<sup>TM</sup>** Platform Overview

#### **Oral Vaccine Technology Could Address Viral Variant Challenges**

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#### **Clinical Pipeline Overview**

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#### **Resources to Aggressively Continue Clinical Advancement** and Commercialization

Cash: \$131.5MM (as of June 30, 2022)



 Room temperature-stable, oral tablet vaccine that delivers systemic AND mucosal immunity through intestinal epithelial cell uptake with single dose

- Ad5 vector backbone containing antigen of interest (HPV, Norovirus, Influenza, COVID-19, RSV) and TLR3 adjuvant for immuno-stimulating effects

- Completed 15 clinical trials against 7 different viruses, vaccinating 500+ subjects

- Rapidly emerging Sars-CoV-2 variants underscore the importance of vaccine technology that can address future variant challenges

- Cross-reactive nature of mucosal IgA response increases likelihood of variant

- COVID-19 candidate in Phase II clinical trials demonstrated high mucosal antibody and T cell responses as well as cross-reactivity to coronavirus variants

Norovirus candidate in Phase II clinical trials demonstrated bivalent efficacy against both GI.1 and GII.4; Norovirus GI.1 challenge study generated positive preliminary Phase 1b data in elderly adults

Influenza Phase II clinical trial demonstrated improved protection against infection compared to Fluzone with favorable safety profile

VAAST<sup>™</sup>: <u>Vector-Adjuvant-Antigen</u> <u>Standardized</u> <u>Technology</u>





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