

Developing Transformational Immunotherapies for Cancer

NASDAQ: PDSB

September 2023



PDS Biotechnology

Precision Designed Science For Immunotherapy

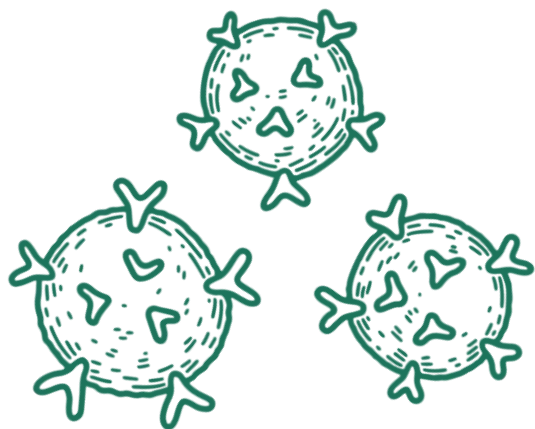
Forward-Looking Statements

This communication contains forward-looking statements (including within the meaning of Section 21E of the United States Securities Exchange Act of 1934, as amended, and Section 27A of the United States Securities Act of 1933, as amended) concerning PDS Biotechnology Corporation (the "Company") and other matters. These statements may discuss goals, intentions and expectations as to future plans, trends, events, results of operations or financial condition, or otherwise, based on current beliefs of the Company's management, as well as assumptions made by, and information currently available to, management. Forward-looking statements generally include statements that are predictive in nature and depend upon or refer to future events or conditions, and include words such as "may," "will," "should," "would," "expect," "anticipate," "plan," "likely," "believe," "estimate," "project," "intend," "forecast," "guidance", "outlook" and other similar expressions among others. Forward-looking statements are based on current beliefs and assumptions that are subject to risks and uncertainties and are not guarantees of future performance. Actual results could differ materially from those contained in any forward-looking statement as a result of various factors, including, without limitation: the Company's ability to protect its intellectual property rights; the Company's anticipated capital requirements, including the Company's anticipated cash runway and the Company's current expectations regarding its plans for future equity financings; the Company's dependence on additional financing to fund its operations and complete the development and commercialization of its product candidates, and the risks that raising such additional capital may restrict the Company's operations or require the Company to relinquish rights to the Company's technologies or product candidates; the Company's limited operating history in the Company's current line of business, which makes it difficult to evaluate the Company's prospects, the Company's business plan or the likelihood of the Company's successful implementation of such business plan; the timing for the Company or its partners to initiate the planned clinical trials for PDS0101 and other Versamune® and Infectimune® based product candidates; the future success of such trials; the successful implementation of the Company's research and development programs and collaborations, including any collaboration studies concerning PDS0101 and other Versamune® and Infectimune® based product candidates and the Company's interpretation of the results and findings of such programs and collaborations and whether such results are sufficient to support the future success of the Company's product candidates; the success, timing and cost of the Company's ongoing clinical trials and anticipated clinical trials for the Company's current product candidates, including statements regarding the timing of initiation, pace of enrollment and completion of the trials (including the Company's ability to fully fund its disclosed clinical trials, which assumes no material changes to the Company's currently projected expenses), futility analyses, presentations at conferences and data reported in an abstract, and receipt of interim or preliminary results (including, without limitation, any preclinical results or data), which are not necessarily indicative of the final results of the Company's ongoing clinical trials; any Company statements about its understanding of product candidates mechanisms of action and interpretation of preclinical and early clinical results from its clinical development programs and any collaboration studies; to aid in the development of the Versamune® platform; and other factors, including legislative, regulatory, political and economic developments not within the Company's control. The foregoing review of important factors that could cause actual events to differ from expectations should not be construed as exhaustive and should be read in conjunction with statements that are included herein and elsewhere, including the risk factors included in the Company's annual, quarterly and periodic reports filed with the SEC. The forward-looking statements are made only as of the date of this press release and, except as required by applicable law, the Company undertakes no obligation to revise or update any forward-looking statement, or to make any other forward-looking statements, whether as a result of new information, future events or otherwise.

Versamune® and Infectimune® are registered trademarks of PDS Biotechnology Corporation
KEYTRUDA® is a registered trademark of Merck Sharp and Dohme LLC, a subsidiary of Merck & Co., Inc., Rahway, NJ, USA

Executive Summary: Positioned for Market Leadership

Company Overview



T cell activating platforms and antibody conjugated immuno-cytokine platform to develop safer, more effective and longer lasting **cancer immunotherapies**

1



PDS0101 to enter **Phase 3 registrational trial** in 2023 to treat recurrent or metastatic, HPV16-positive head and neck squamous cell cancer (HNSCC)

2



Fast Track Designation

PDS0101 addresses large and growing market with significant unmet need

3



Transformational data generated with PDS0101 and PDS0301 in multiple Phase 2 clinical studies

4



Financial: Cash as of June 30, 2023 - \$60.6M- Adequate cash runway for the next 12 months with initiation of a registrational trial in 2023

Experienced Management Team

Historical success in development and commercialization of leading pharmaceutical products



Frank Bedu-Addo, PhD

Chief Executive Officer

- Senior executive experience with management of strategy and execution at both large pharma and biotech
- Notable drug development:
 - Abelcet® (Liposome Company/ Elan)
 - PEG-Intron® (Schering-Plough/ Merck)



Matthew Hill

Chief Financial Officer

- 20 years of financial and operational leadership roles for life sciences companies
- Former Chief Financial Officer of several publicly traded companies



Lauren V. Wood, MD

Chief Medical Officer

- 30 years of translational clinical research experience
- Former Vaccine Branch Clinical Director at National Cancer Institute Center for Cancer Research



Gregory Conn, PhD

Chief Scientific Officer

- Co-founder
- 35 years of drug development experience
- In-depth experience with biotech drug discovery, product development and manufacturing



PDS Biotech Versamune® Overview

Designed to address limitations of current immunotherapy

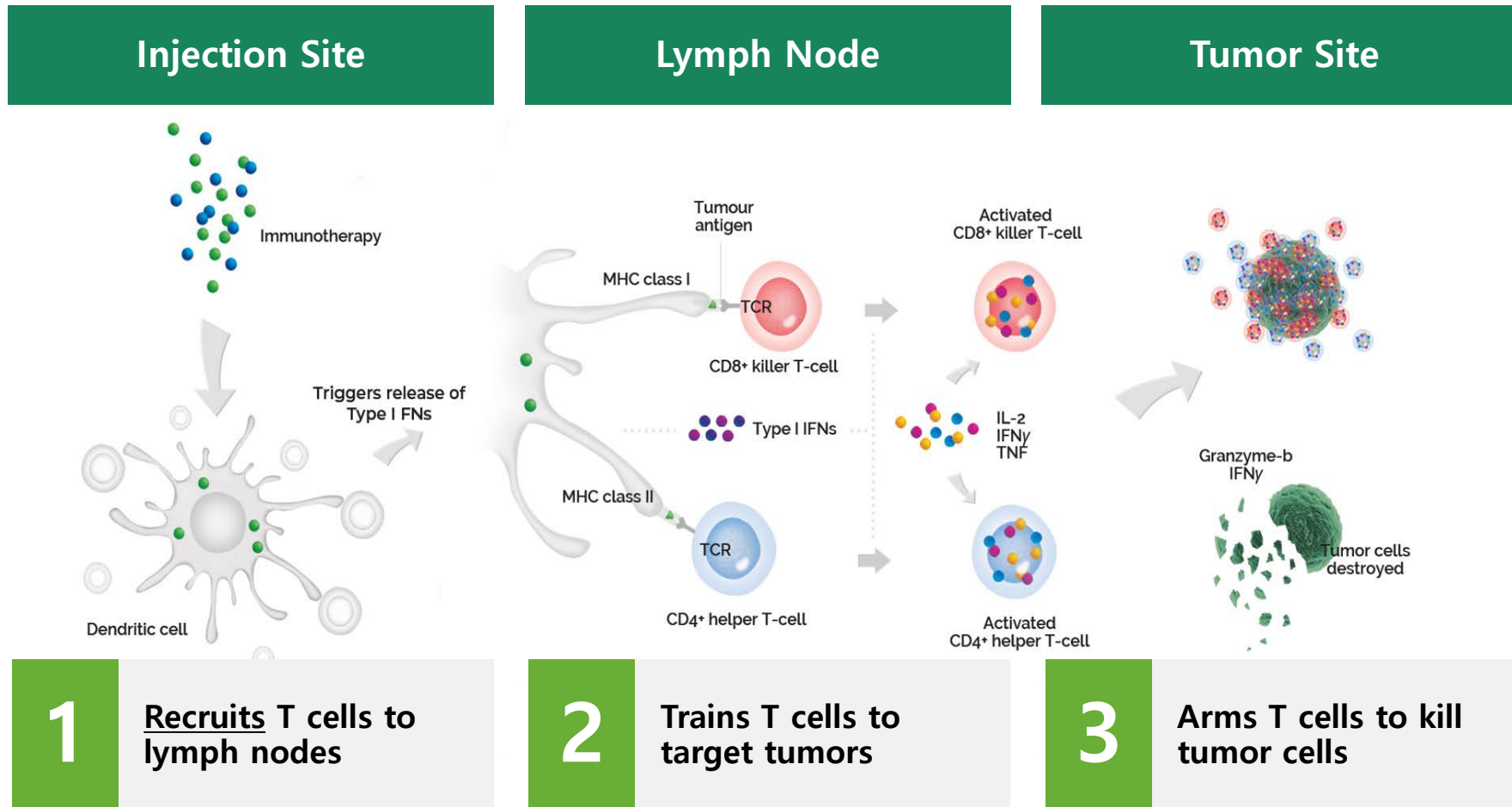
Versamune®

PLATFORM:

Induces powerful, long-lasting anti-tumor response by promoting uptake of tumor-specific proteins by the immune system and activates a specific signaling pathway that promotes the production of active tumor-infiltrating multifunctional CD8 killer and CD4 helper T cells

Product Candidates			
PDS0101	PDS0102	PDS0103	PDS0104

Versamune® Induces the Right Type, Potency and Quantity of Multifunctional Killer and Helper T Cells

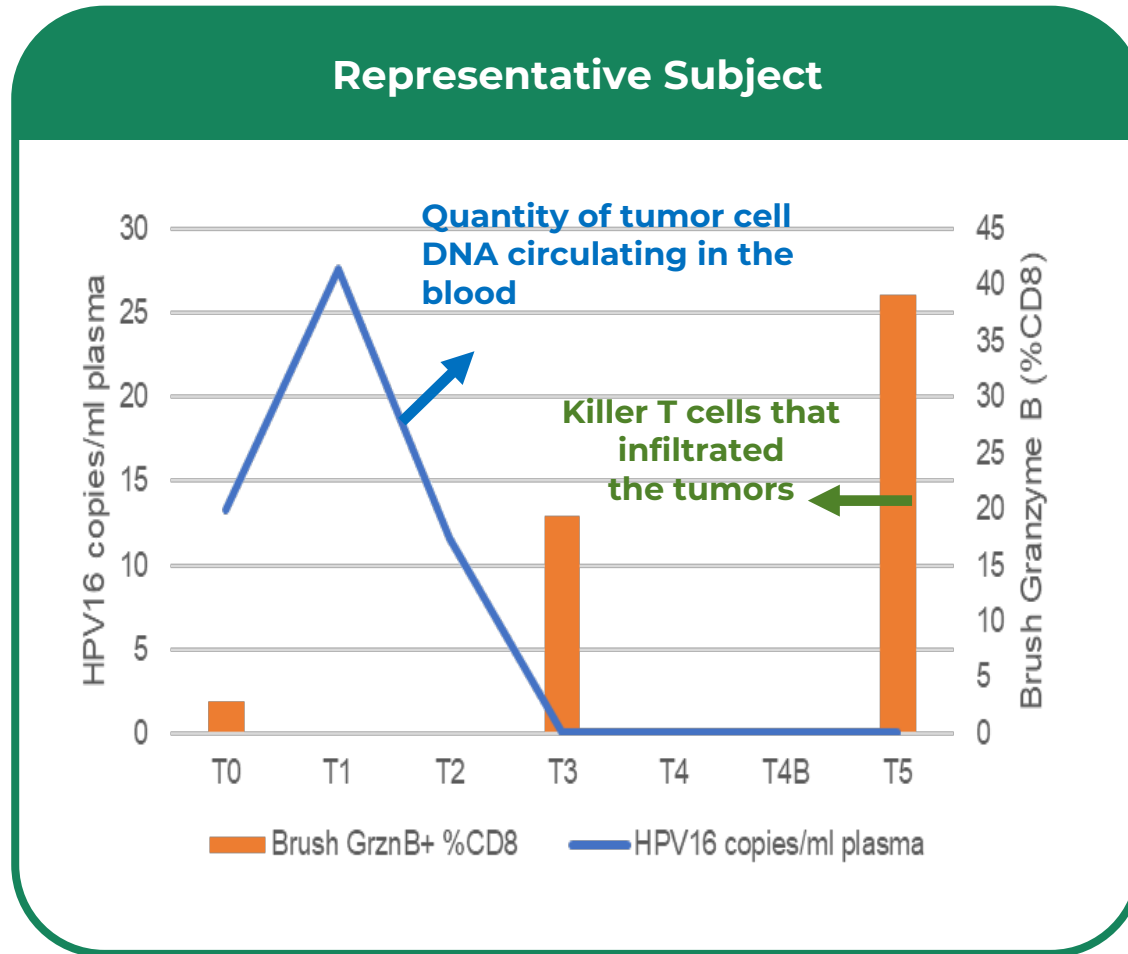


- Comprised of positively charged lipid (R-DOTAP) co-administered with proprietary tumor-specific proteins, **delivered via subcutaneous injection**
- Delivers antigen to CD4 and CD8 T cells. Activates the Type I Interferon pathway, leading to **potent, multifunctional, antigen specific T cell responses**
- Human clinical trials confirm induction and accumulation of **multifunctional T cells in the tumor**, which correlated with clinical response and elimination of circulating tumor DNA and clinical response (SITC 2022)

References: Gandhapudi SK, et al. 2019. Antigen priming with enantiospecific cationic lipid nanoparticles induces potent antitumor CTL responses through novel induction of a Type I IFN response. J Immunol. 202 (12): 3524-3536. Smalley Rumfield C et al. 2020. Immunomodulation to enhance the efficacy of an HPV therapeutic vaccine. J. for ImmunoTherapy of Cancer 8:e000612.

IMMUNOCERV: PDS0101 Appears to Induce Clinically Beneficial Killer (CD8) T Cells

Induction of activated CD8 T cells correlates with elimination of circulating tumor DNA¹



- PDS0101 activates the immune system to generate active killer T cells (CD8 T) cells that induce a critical mediator of the T cell's tumor-killing function called granzyme-B
- Multifunctional killer T cells target, infiltrate and eliminate the cervical cancer tumors
- HPV16 tumor DNA in the blood circulation declines by day 170 (T5)

IMMUNOCERV (PDS0101+Chemoradiation) Trial¹:

- Predominantly stage III and IV cervical cancer
- Locally advanced cancer with tumors > 5cm (high-risk patients)
- 100% (9/9) clinical response rate with 60 days
- No evidence of cancer in 89% (8/9) by Day 170

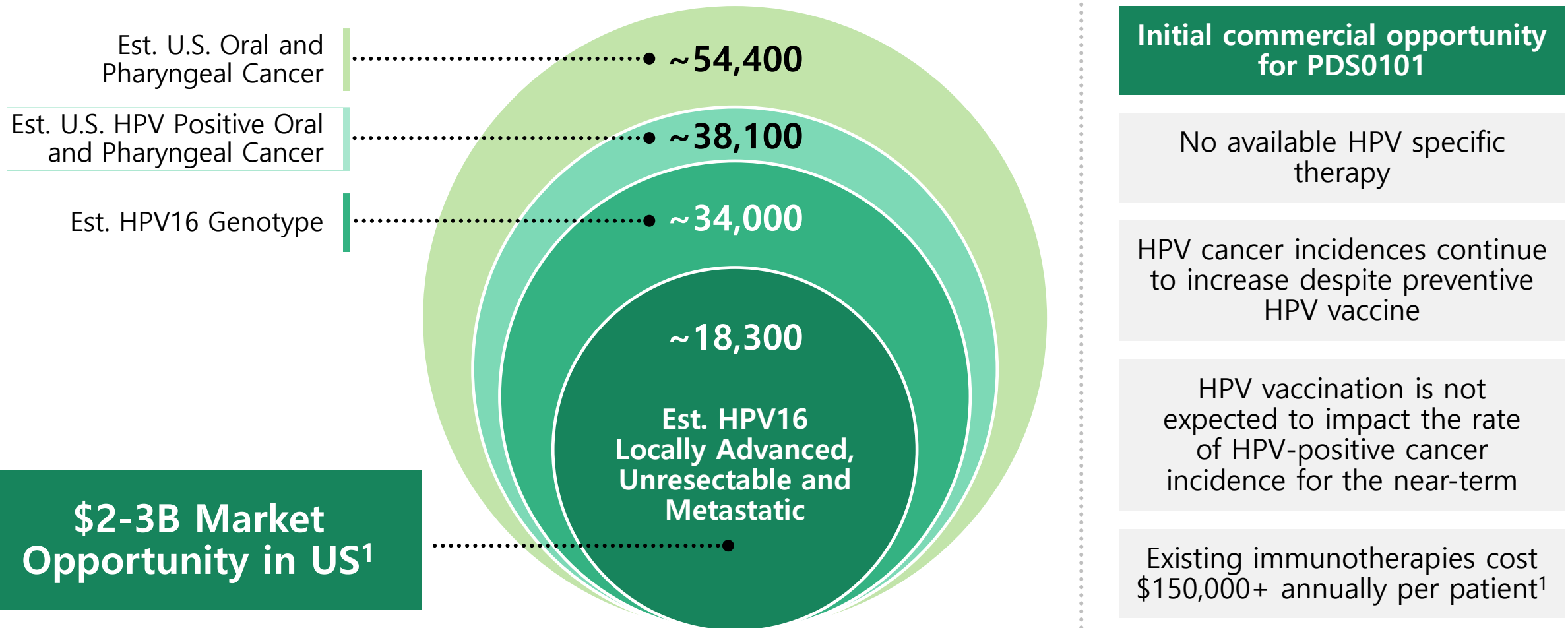


HPV16-Positive Head and Neck Squamous Cell Cancer (HNSCC)

Disease Overview and Market Size

HPV16-positive HNSCC Presents a Significant Market Opportunity

Largely Attributed to the High Rate of Oral HPV Infections in Men



Data sources: ¹ PD-L1 negative and PD-L1 positive populations (> 9000 incidence PD-L1 Positive)
<https://seer.cancer.gov/statfacts/html/oralcav.html>; https://www.cdc.gov/cancer/hpv/basic_info/hpv_oropharyngeal.htm;
<https://virologyj.biomedcentral.com/articles/10.1186/s12985-021-01688-9>; https://seer.cancer.gov/statistics-network/explorer/application.html?site=3&data_type=1&graph_type=4&compareBy=sex&chk_sex_1=1&race=1&age_range=1&adopt_precision=1&hdn_view=0; <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5002133/>

Despite the Availability of Treatments, Significant Unmet Needs Remain in Recurrent or Metastatic HNSCC

Standard of Care for Recurrent or Metastatic HNSCC – Published Results*¹

	KEYTRUDA®	KEYTRUDA® Plus Chemo	Chemotherapy + EGFR Inhibitor
Objective Response Rate (ORR)	19%	36%	35%
Progression Free Survival (PFS)	3.2 mos	5.0 mos	5.0 mos
12-Month Survival Rate	50%	55%	44%
Median Overall Survival (OS)	12.3 mos	13.6 mos	10.3 mos
Key Toxicities	• Anemia • Fatigue • Weight loss • Hypokalemia	Additional to KEYTRUDA®: • Neutropenia • Mucosal inflammation • Thrombocytopenia • Stomatitis	• Neutropenia • Anemia • Thrombocytopenia • Nausea/vomiting • Hypokalemia • Rash • Fatigue • Mucosal inflammation
Treatment Related Grade 3+ Toxicities	17%	72%	69%

Oncologist² – Stated Unmet Medical Needs in HNSCC

- Targeted treatment option to address the growing population of HPV16-positive HNSCC and improve outcomes
- Novel MOA that is clinically effective in a broader patient population and provides more durable responses.
- Safer and more effective treatments that may be used with or in place of current standard of care
- Better tolerability and less toxic alternatives to chemotherapy

¹KEYNOTE-048 Study Burtneess B et al, Lancet 2019

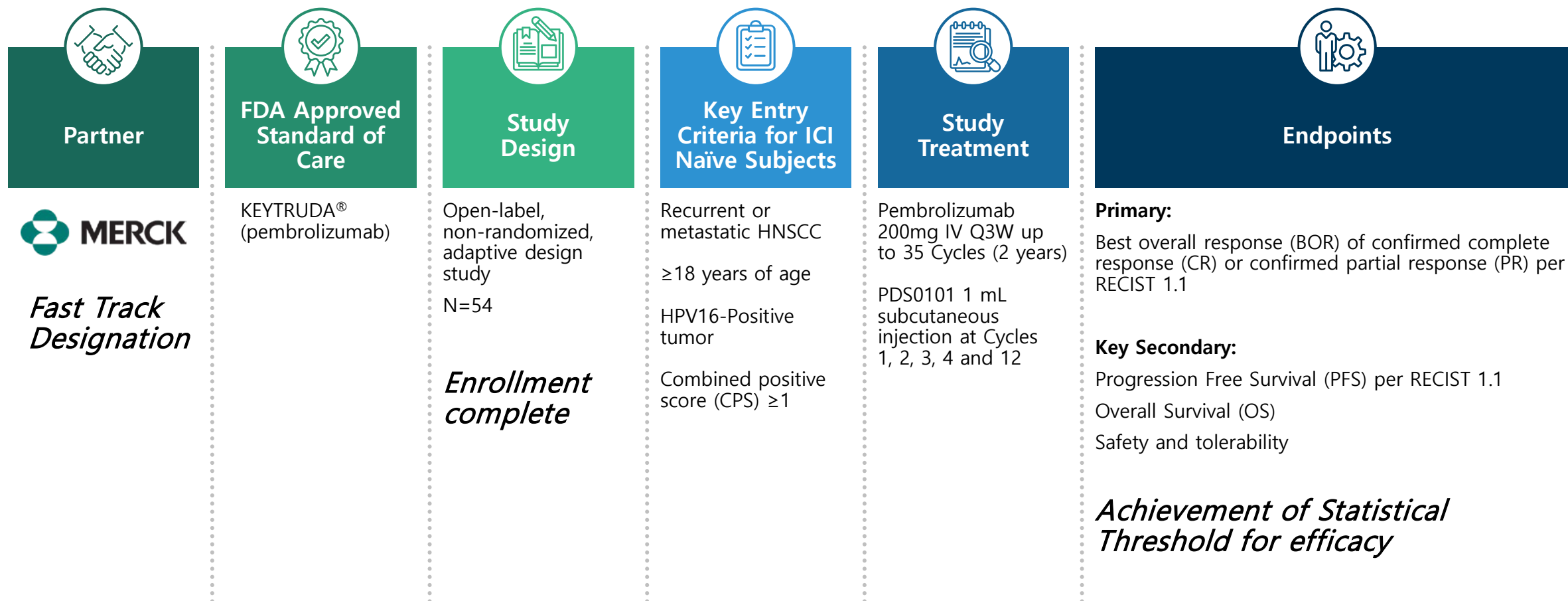
²Primary Market Research 2022

A microscopic image of a cell, likely a cancer cell, with a long, thin projection extending from its main body. The cell is stained with a green dye, and the background is dark. The text "PDS0101 for HPV16-Positive HNSCC" is overlaid on the left side of the image.

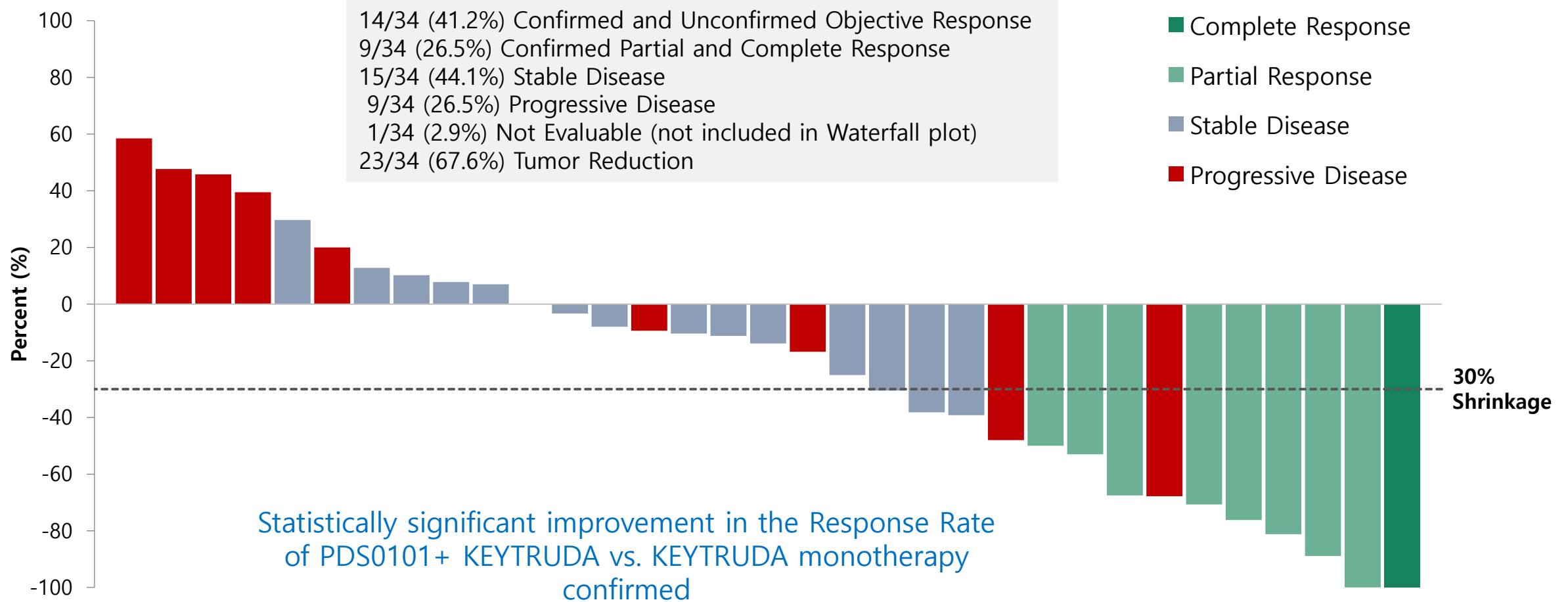
PDS0101 for HPV16-Positive HNSCC

VERSATILE-002 Phase 2 Clinical Trial

Objective: To assess the combination of PDS0101 and KEYTRUDA® in ICI naïve subjects with recurrent or metastatic HPV-positive HNSCC



To Date 70.6% of Patients have Achieved Disease Stabilization or Tumor Shrinkage



The Addition of PDS0101 to KEYTRUDA® Does not Appear to Compound Toxicity

PDS0101+KEYTRUDA® Treatment Related Adverse Events (TRAE) $\geq 5\%$ (ITT Population)

PDS0101-KEYTRUDA® TRAE by Grade	
Grade 1	13 (27.1)
Grade 2	19 (39.6)
Grade 3	4 (8.3)
Grade 4	0
Grade 5	0

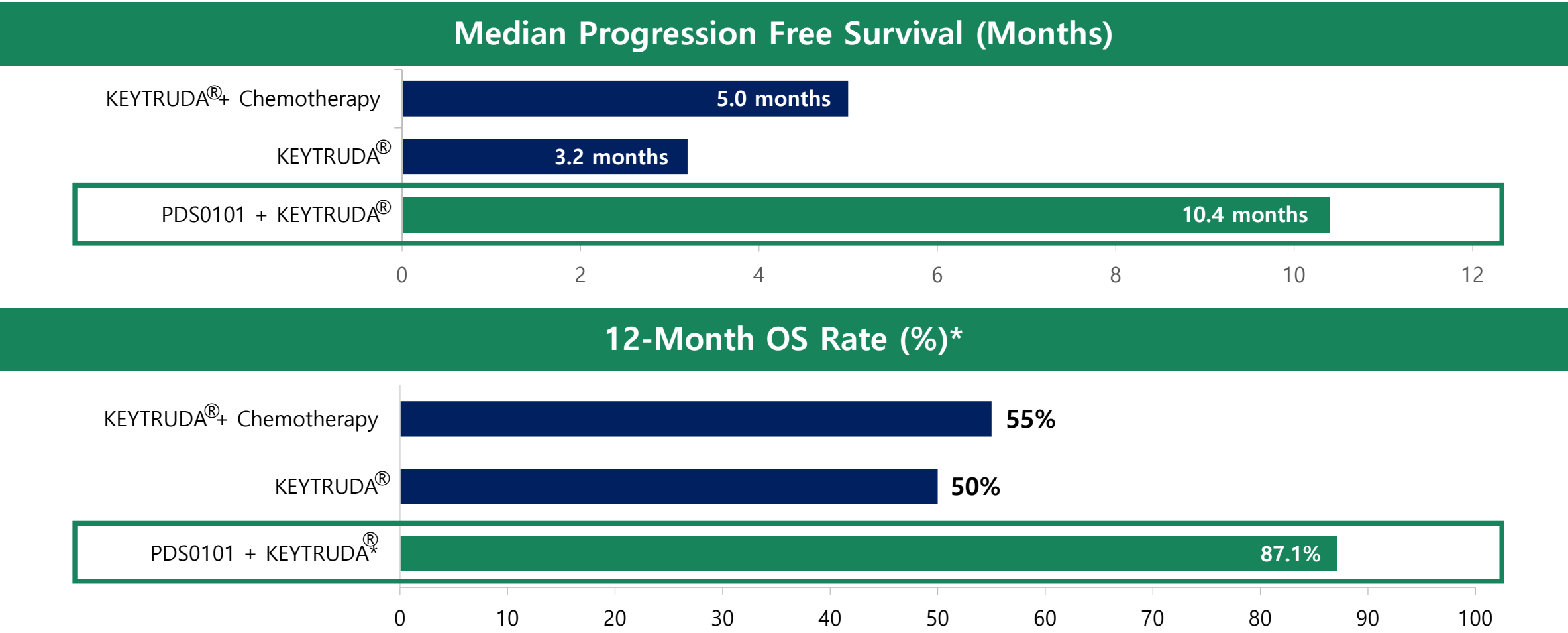
- Only 4 subjects (8%) had Grade 3 PDS0101-KEYTRUDA® TRAEs: fatigue, injection site reaction, blood alkaline phosphatase increased, hyperglycemia, colitis, and rash
- No subjects had Grade 4 or 5 TRAEs
- No subject came off study due to toxicity

Safety data in approximately 120 patients to date across multiple Phase 1 and 2 Studies

Safety data, anti-tumor responses and patient survival suggest that the Versamune® based therapies such as PDS0101 could be ideal candidates for combination oncology treatments

Data Suggests Prolonged Responses (Durability) and Patient Survival

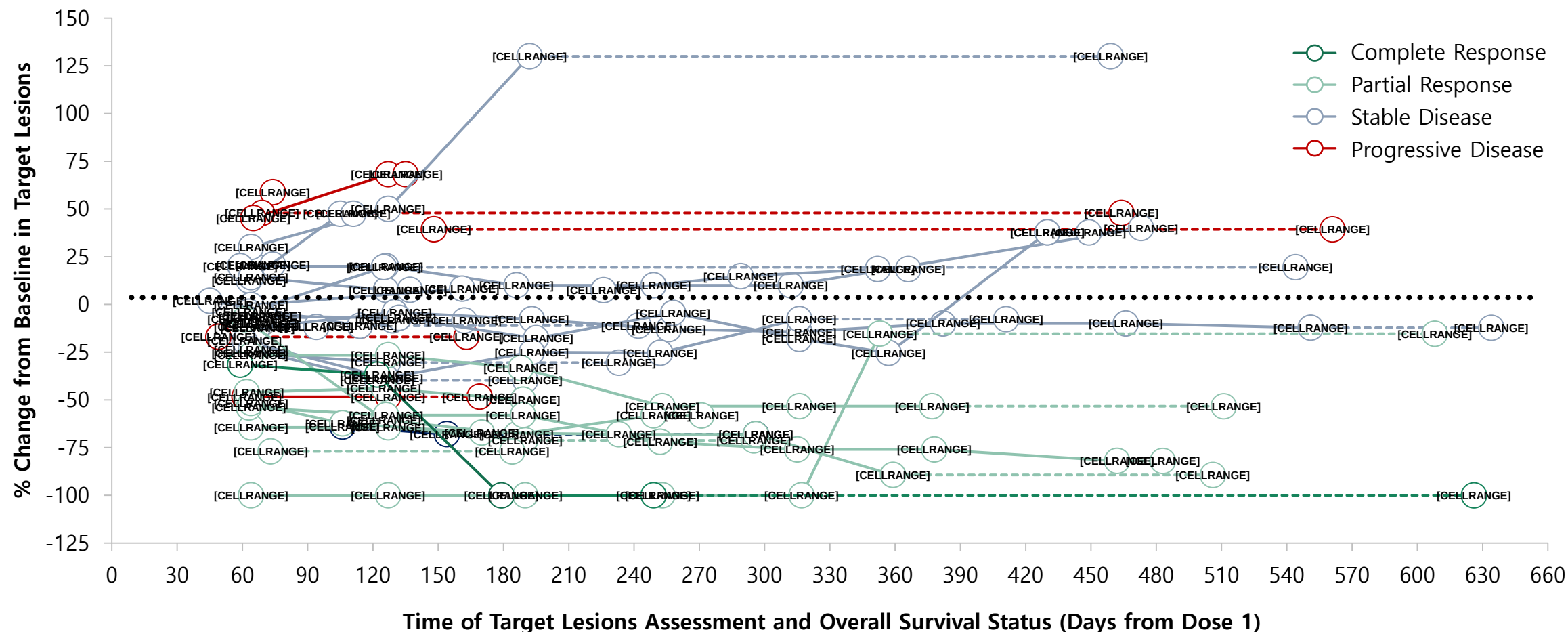
PDS0101 + KEYTRUDA® Data – Median PFS and 12 Month OS



*median OS for PDS0101 + KEYTRUDA® not yet reached
KEYNOTE-048: Burtneß B et al. Lancet 2019;394:1915-28, Published results for reference only
No control or comparative studies have been conducted between immune checkpoint inhibitors and PDS0101

Several Patients Approaching Two Years of Survival

Demonstrated objective response rate of 41% (confirmed and unconfirmed)



Overall response: CR=Complete Response; PR=Partial Response; SD=Stable Disease; PD=Progressive Disease; NE=Not Evaluable.

Overall response was based on investigator assessment per RECIST v1.1.

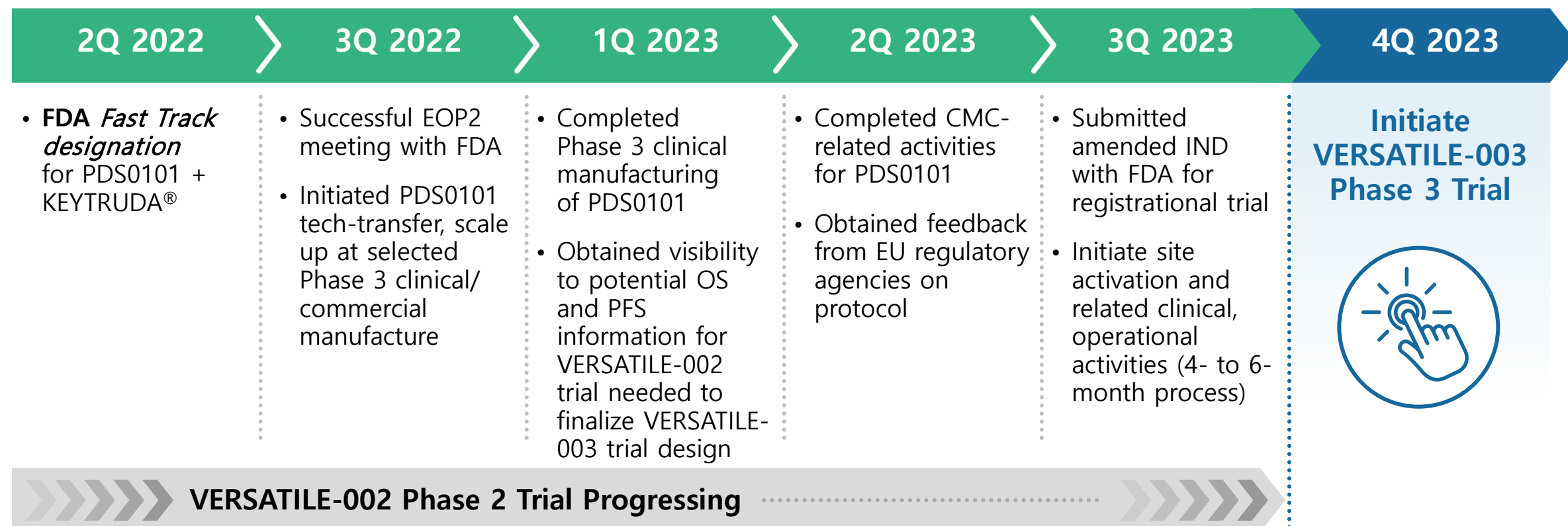
Survival status: A=Alive; D=Deceased. Alive subjects were based on the last contact date.

No control or comparative studies have been conducted between immune checkpoint inhibitors and PDS0101

VERSATILE-003 Timeline to Registrational Trial Initiation

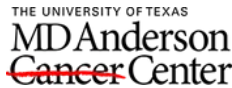
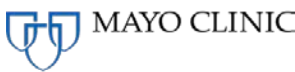
Worldwide Randomized, Controlled Clinical Study to Be Initiated Q4 2023 with an Overall Estimated 90–100 Sites

PDS0101 + KEYTRUDA® in Recurrent or Metastatic HPV16-Positive HNSCC



Versamune® Based Oncology Pipeline

Partnerships with World Class Institutions in Immuno-Oncology

	Candidate/ Study	Indication	Combination	PC	P1	P2	P3	R	Partner(s)
Clinical (Lead)	PDS0101 (HPV)/ VERSATILE-002	Recurrent or metastatic HPV16- positive head and neck cancer • Arm 1: ICI naïve • Arm 2: ICI refractory	KEYTRUDA® (standard of care)	 <i>Fast Track Designation</i>					
	PDS0101 (HPV)/ IMMUNOCERV	1 st -line treatment of locally advanced (IB3-IVA) cervical cancer	Chemo-radiation (standard of care)						
IIT Studies	PDS0101 (HPV)/ Mayo Clinic	Pre-metastatic HPV-positive oropharyngeal cancer (OPSCC) • Arm 1: PDS0101 monotherapy • Arm 2: PDS0101 + KEYTRUDA®	KEYTRUDA® (standard of care)						
	PDS0102 (TARP)	TARP-positive AML, prostate and breast cancers	TBD						
Preclinical Candidates	PDS0103 (MUC1)	MUC1-positive breast, colon, lung, ovarian and other cancers	TBD						
	PDS0104 (TRP2)	Melanoma	TBD						



PDS Biotech Funded



Partner Co-Funded



Antibody-Conjugated IL-12 (PDS0301)

PDS Biotech Antibody-Conjugated IL-12 (PDS0301) Overview

Antibody-Conjugated IL-12

- PDS0301 is a novel investigational tumor-targeting IL-12 that enhances the proliferation, potency and longevity of T cells in the tumor microenvironment

Opportunities

- Monotherapy
- Combinations:
 - Versamune® Based Immunotherapies
 - Chemotherapy
 - Radiation
 - HDAC Inhibitors*

NCI-led Triple Combination: PDS0301 + PDS0101 + ICI

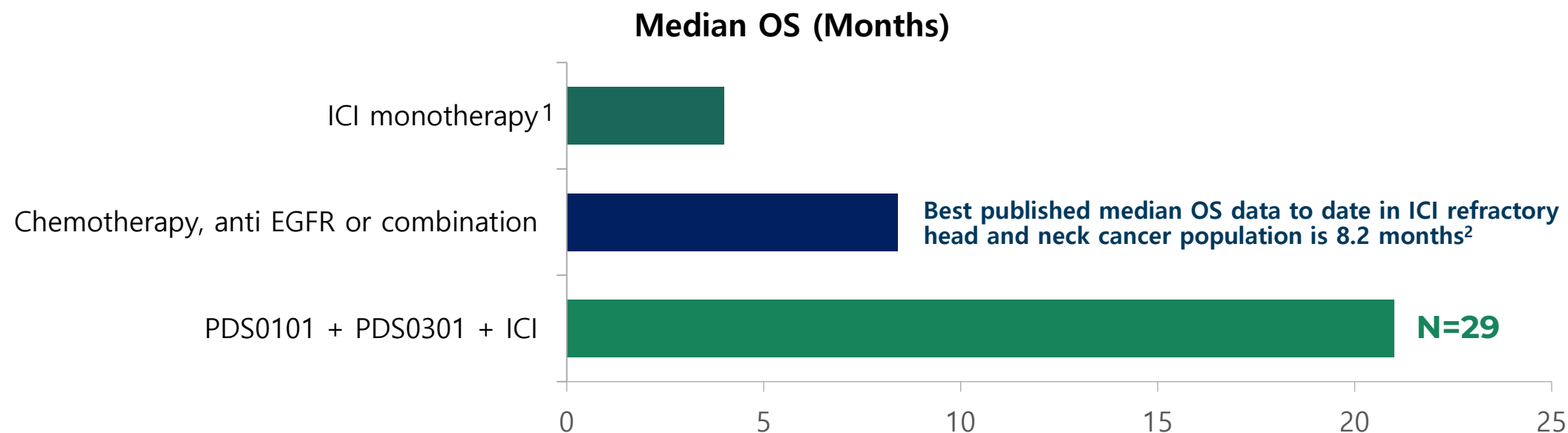
Advanced HPV16-Positive Anal, Cervical, Head and Neck, Penile, Vaginal, Vulvar Cancer Patients Who Are ICI Refractory

Partner	
FDA Approved Standard of Care	None
Immunology/ Immune Correlates	SITC, November 2022: • Greater than two-fold increase in HPV16-specific T cells in the blood of 11/14 (79%) of the evaluated patients • Induction of multifunctional killer (CD8) T cells • Increases in granzyme B (associated with active killer T cells), IFN-γ, TNF-α, etc., signal a pro-inflammatory response and role in overcoming tumor immune suppression
Safety	Safety results (Arms 1 & 2)¹ • 24/50 (48%) of patients experienced grade 3 and higher adverse events • 2/50 (4%) experienced grade 4 adverse events

NCI-led Triple Combination: PDS0301 + PDS0101 + ICI

Advanced HPV16-Positive ICI Refractory Cancer Patients

Phase 2 Results in Recurrent Metastatic ICI Refractory HPV-Positive Cancer
(CPS>0; PD-L1 agnostic) Plot Includes Published Data in HSNCC



Objective Response (ORR) in High Dose PDS0301 Group = 63% (5/8)*

Antibody-Conjugated IL-12 (PDS0301) Regimens

	Candidate/ Study	Indication	Combination	PC	P1	P2	P3	R	Partner(s)
IIT Studies	PDS0301/ NCI-led Triple Combination	HPV-positive anal, cervical, head and neck, penile, vaginal, vulvar cancers • Arm 1: ICI naïve • Arm 2: ICI refractory	PDS0101 & ICI						
	PDS0301	Advanced Kaposi Sarcoma	Monotherapy						
	PDS0301	Metastatic Castration sensitive and Castration Resistant Prostate Cancer	Docetaxel						
	PDS0301	Localized High and Intermediate Risk Prostate Cancer	Radiation Therapy						
	PDS0301	ICI Refractory HPV-related, colon and small-bowel cancer	HDAC Inhibitor						

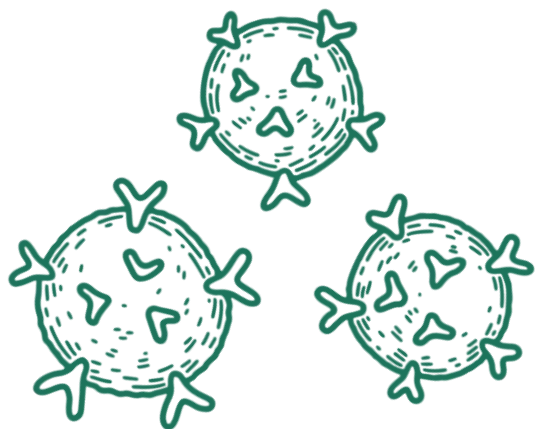
 Partner Co-Funded

Projected Milestones Through 3Q24

		3Q23	4Q23	1Q24	2Q24	3Q24
PDS0101	Submit IND with FDA for registrational trial (VERSATILE-003)					
	Anticipate ICI naïve/refractory data – KOL Event (VERSATILE-002)					
	Updated OS data from PDS0101-PDS0301 based triple combination					
	Immune response data (VERSATILE-002) (ESMO 2023)					
	Initiate registrational trial (VERSATILE-003)					
	Anticipate updated data (IMMUNOCERV) (ASTRO 2023)					
	Anticipate preliminary efficacy data (Mayo Clinic)					
	Final data VERSATILE-002					
PDS0301	Interim safety and immune data (PDS0301 + docetaxel) (Cytokines 2023)					
PDS0103	Estimated IND filing in MUC1-related cancers					
PDS0202	Universal flu preclinical ferret data (ESWI 2023)					

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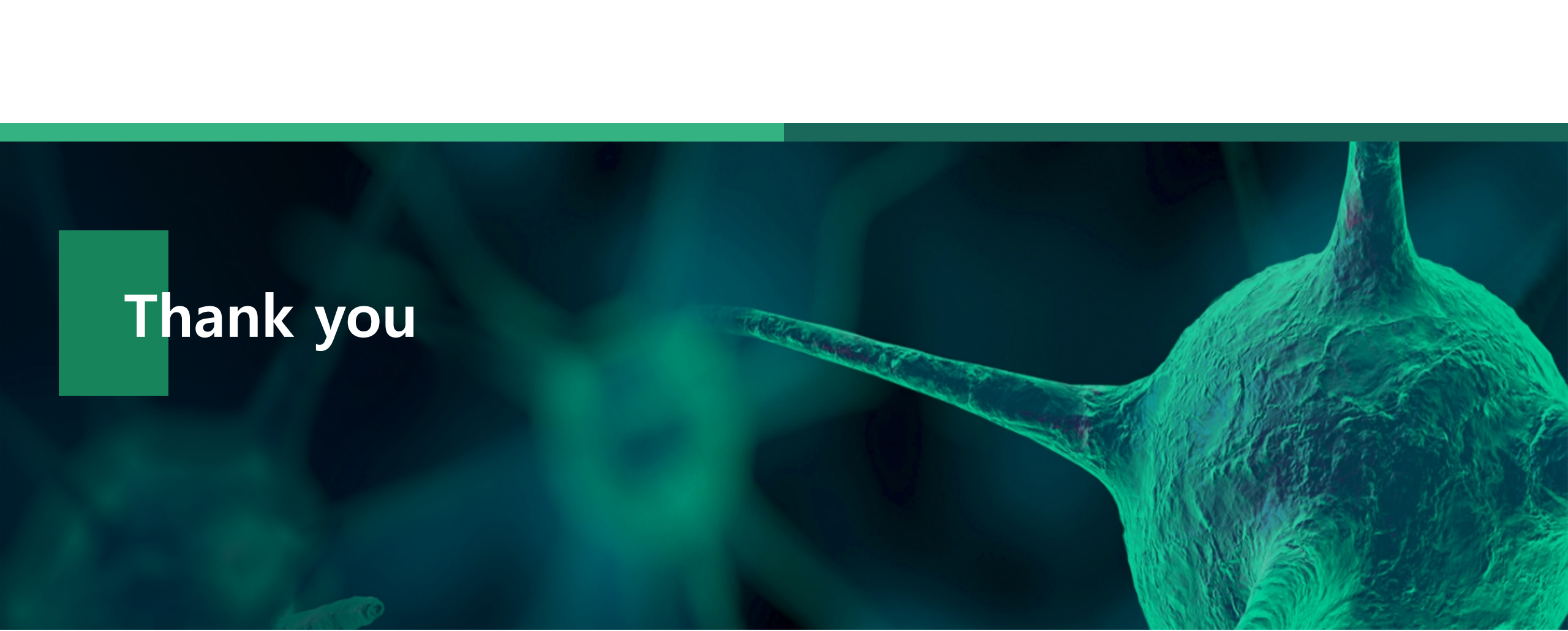


Transformational data generated with PDS0101 and PDS0301 in multiple Phase 2 clinical studies

4



Financial: Cash as of June 30, 2023 - \$60.6M cash runway for the next 12 months with initiation of a registrational trial in 2023

A microscopic image of a cell, possibly a neuron or a similar specialized cell, with a long, thin, and slightly curved protrusion extending from a larger, more textured body. The image is rendered in a teal or green color scheme, giving it a scientific and modern appearance. The background is dark and out of focus, highlighting the cell's structure.

Thank you

Appendix

PDS0202: Universal Prevention of Influenza

Universal Influenza Vaccines



\$7 Billion : Universal Flu Market Opportunity in 2021



License agreement with University of Georgia for proprietary influenza antigens

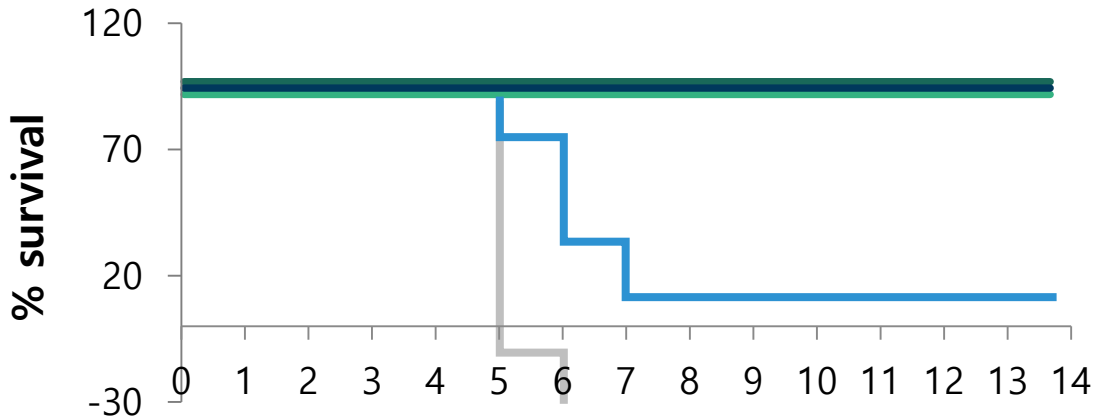


Top-line preclinical data announced; effective delivery of flu proteins activate the critical immune signals necessary to generate neutralizing antibody responses to all flu strains tested in animals



Preclinical data presented at the 41st Annual meeting of the American Society Virology Meeting

PDS0202 Provided Full Protection Against Lethal Challenge with H1N1 Pandemic Strain in Preclinical Study



- Day post infection**
- Flu Protein 3ug + Infectimune™
 - Flu Protein 0.6ug + Infectimune™
 - Flu Protein 0.1ug + Infectimune™
 - Flu Protein 3ug
 - Unvaccinated

Proprietary Computationally Designed Influenza Protein

A microscopic image of a cell, possibly a neuron or a similar specialized cell, with a long, thin projection extending from its main body. The image is rendered in a green and blue color scheme, giving it a scientific and futuristic appearance. The cell body is on the right, and the projection extends towards the left, passing behind the text.

Infectimune[®] Infectious Disease Platform

Several Key Opinion Leaders Involved with PDS Biotech's VERSATILE-002 Head and Neck Cancer Trial



Katharine A. Price, MD
Associate Professor, Oncology
Mayo Clinical
(Presented ASCO data)



Jared Weiss, MD
Section Chief of Thoracic and Head/Neck
Oncology, Professor of Medicine
UNC Lineberger Comprehensive Cancer Center
(Lead Investigator)



Kevin J. Harrington, MBBS, PhD
Professor in Biological Cancer Therapies
The Institute of Cancer Research,
London
(Key investigator on Merck KEYNOTE-
048 trial with KEYTRUDA)



John Kaczmar, MD
Associate Professor, Oncology
MUSC Hollings Cancer Center
(Published Article on PDS0101-
KEYTRUDA patient)

Expanding Evidence of Consistent and Durable PDS0101 Clinical Results Across Multiple Phase 2 Trial Indications



PDS0101 is an HPV16-targeted immunotherapy



PDS0101 is providing strong proof of concept data for the Versamune[®] technology platform



Efficacy data in >90 patients to date

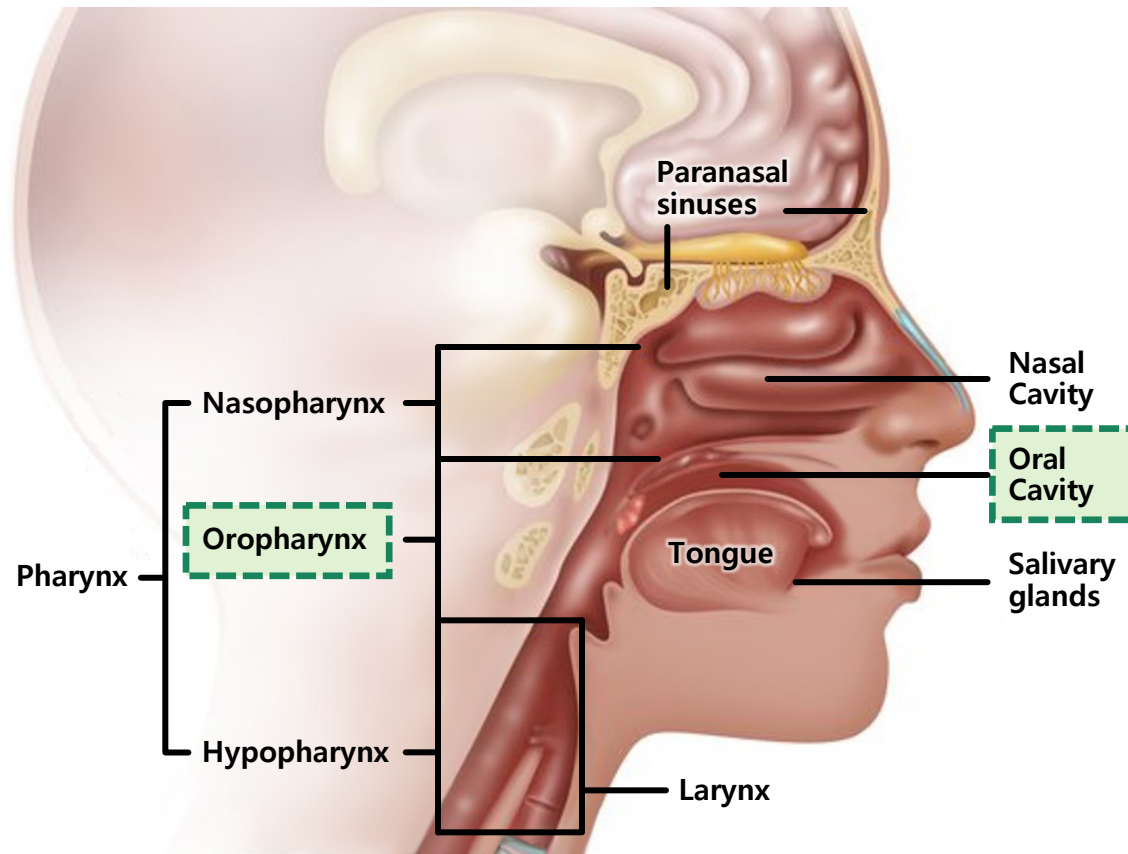
- Strong agreement between preclinical and clinical results
 - Versamune[®] mechanism of action shows clear translation between preclinical and human results
 - Anti-tumor responses and biomarker data show strong correlation across all types of HPV-positive cancer and at all stages of the disease
-



Safety data in approximately 120 patients to date

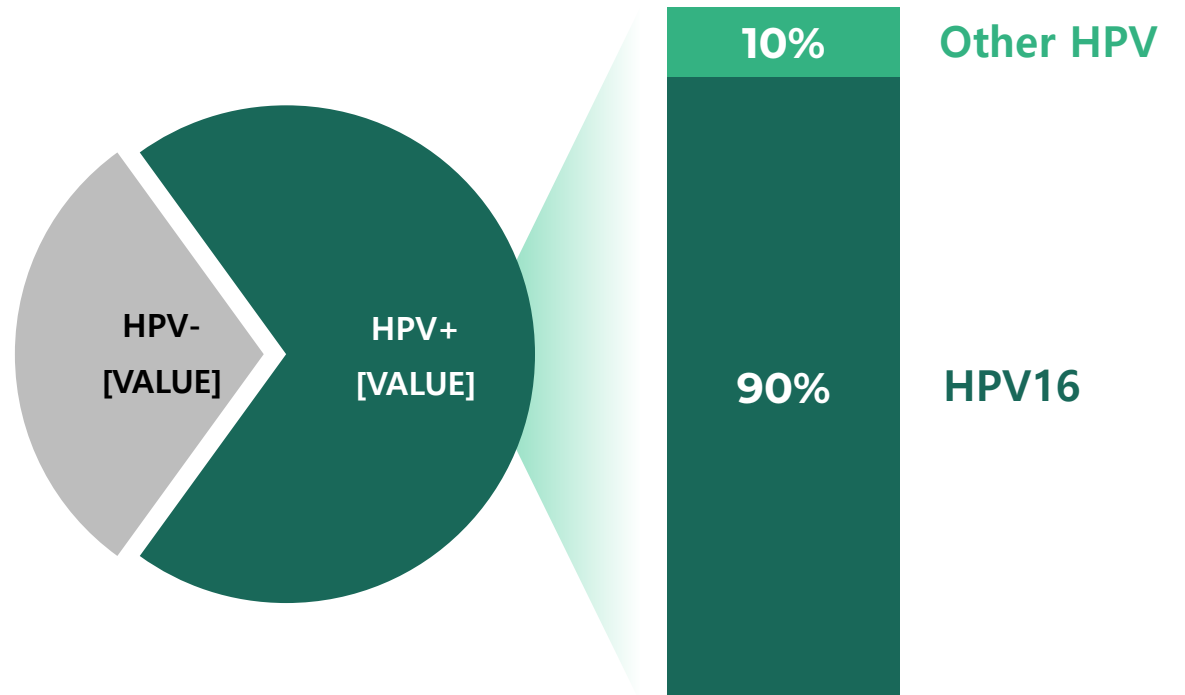
- Safety data, anti-tumor responses and patient survival suggest that the Versamune[®] based therapies such as PDS0101 could be ideal candidates for combination oncology treatments

HNSCC is a Devastating Group of Cancers



Oral and Pharyngeal Cancers

Genotype of *HPV-Positive Oral and Pharyngeal Cancer



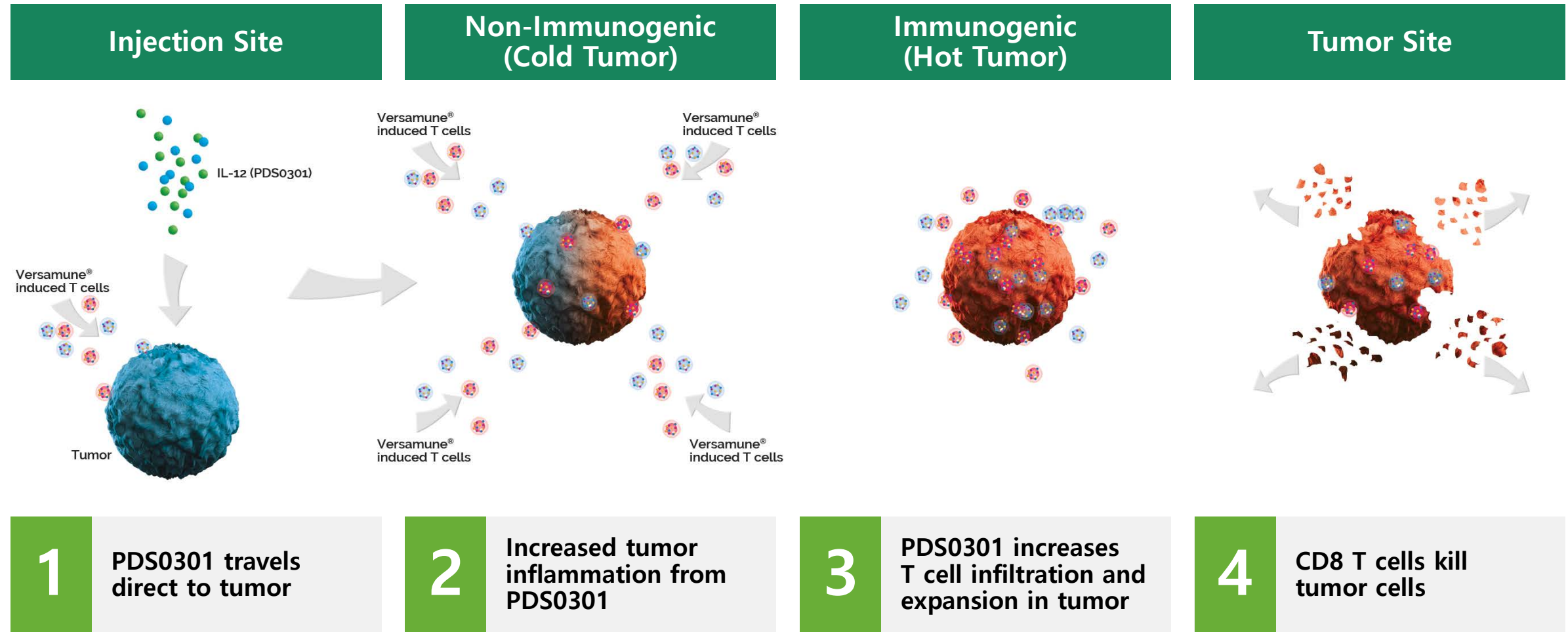
Reference: Noseyaba et al. 2018. Cancer. Suicide Risk Among Cancer Survivors: Head and Neck Versus Other Cancers

<https://virologyj.biomedcentral.com/articles/10.1186/s12985-021-01688-9>

https://www.cdc.gov/cancer/hpv/basic_info/hpv_oropharyngeal.html

*Human Papillomavirus

Antibody-Conjugated IL-12: PDS0301 Targets Tumors and Enhances T Cell Infiltration and Proliferation in the Tumor



Demographics of the ITT (Safety) and mITT (Efficacy) Populations

Demographics and Baseline Characteristics

Demographic or Baseline Characteristic	ITT Population (N=48)	mITT Population (N=34)
Age, Median (Min, Max)	62.5 (45, 83)	63.5 (46, 83)
Sex, n (%)		
Male	45 (93.8)	32 (94.1)
Female	3 (6.3)	2 (5.9)
Race, n (%)		
American Indian or Alaska Native	0	0
Asian	1 (2.1)	0
Black or African American	1 (2.1)	0
Pacific Islander	0	0
White	45 (93.8)	33 (97.1)
Multiple	0	0
Other	1 (2.1)	1 (2.9)
ECOG, n (%)		
0	30 (62.5)	20 (58.8)
1	18 (37.5)	14 (41.2)
CPS, n (%)*		
<1	1 (2.1)	0
1-19	27 (56.3)	17 (50.0)
≥20	20 (41.7)	17 (50.0)

Summary of Exposure

Exposure	ITT Population (N=48)
PDS0101 doses, Median (Min, Max)	4.0 (1, 5)
PDS0101 doses, n, (%)	
≥1 dose	46 (95.8)
≥2 doses	40 (83.3)
≥3 doses	36 (75.0)
≥4 doses	27 (56.3)
5 doses	11 (22.9)
Pembrolizumab doses, Median (Min, Max)	5.0 (1, 29)
Pembrolizumab doses, n, (%)	
≥1 dose	48 (100)
≥2 doses	40 (83.3)
≥3 doses	36 (75.0)
≥4 doses	28 (58.3)
≥5 doses	27 (56.3)
≥6 doses	23 (47.9)
≥7 doses	20 (41.7)
≥8 doses	16 (33.3)
≥9 doses	15 (31.3)
≥10 doses	13 (27.1)
Duration of treatment (months), Median (Min, Max)	3.5 (0.0, 19.5)

PDS0101: A Novel Investigational HPV-Targeted Immunotherapy



PDS0101 is given by subcutaneous injection and stimulates a potent targeted T cell attack against HPV-positive cancers



Interim VERSATILE-002 data suggests PDS0101 generates clinically effective immune responses



PDS0101 with KEYTRUDA® demonstrates significant disease control by shrinking tumors, delaying disease progression and prolonging survival

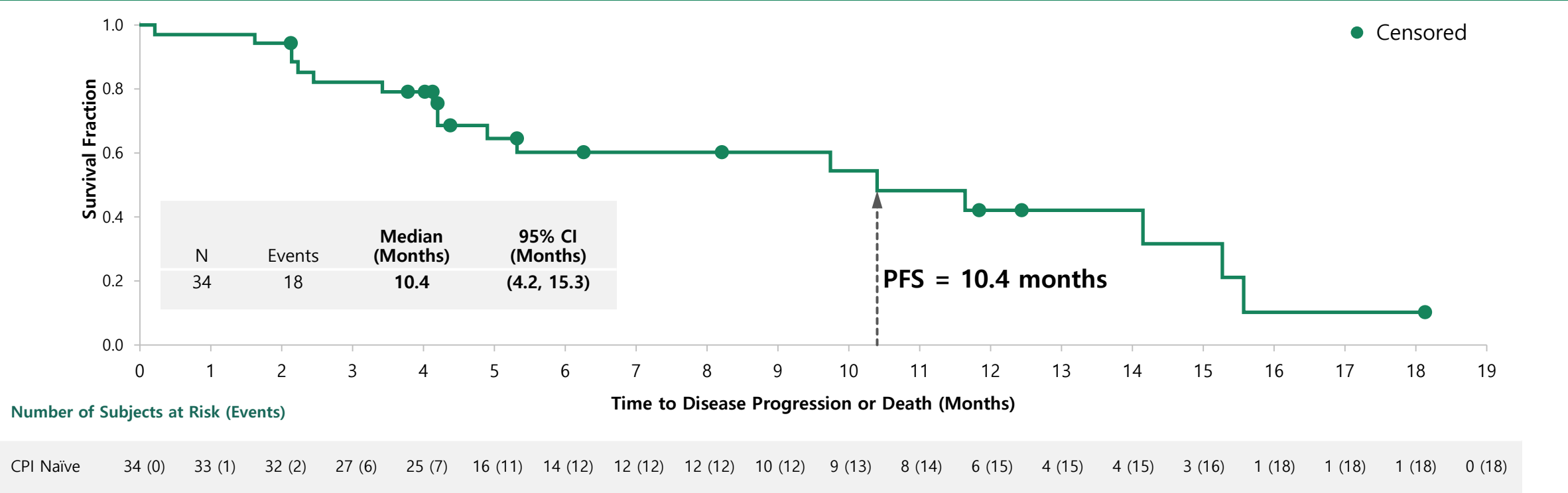


The combination of PDS0101 with KEYTRUDA® has demonstrated a favorable safety profile to date

Compelling Durability of the Anti-Tumor Response

Demonstrated median PFS of 10.4 months; published results of 2-3 months for approved immune checkpoint inhibitors*

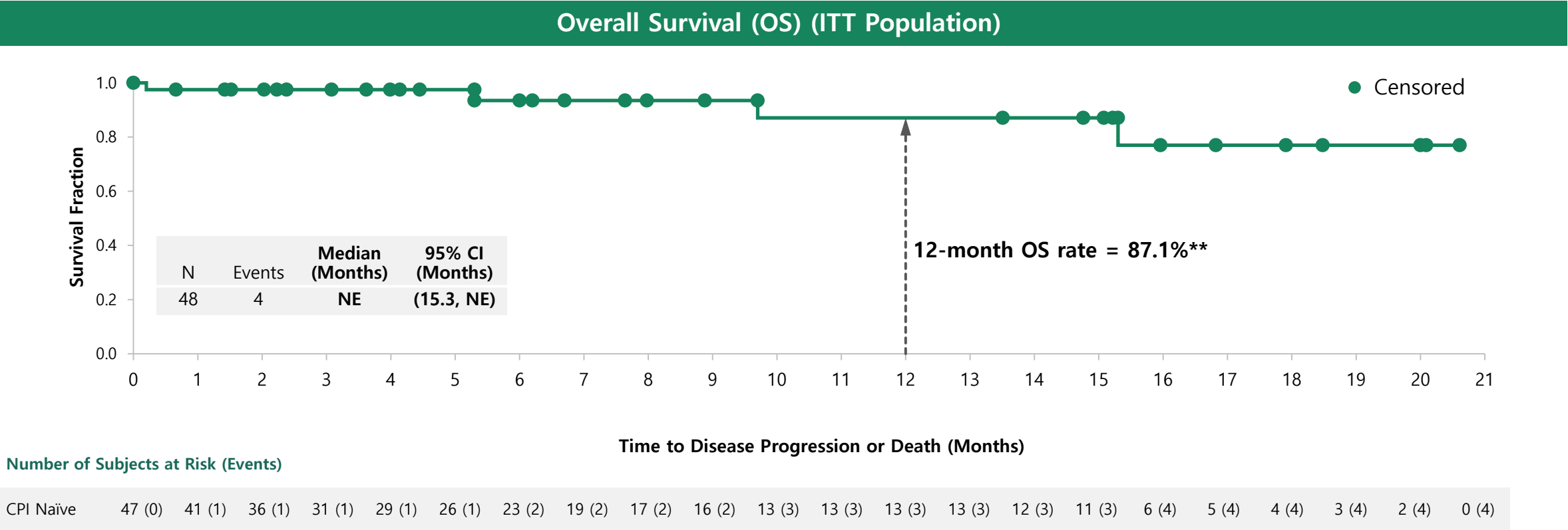
Progressive Free Survival (PFS) per Investigator Assessment (mITT Population)



* No control or comparative studies have been conducted between immune checkpoint inhibitors and PDS0101; Ferris R.L., Nivolumab for Recurrent Squamous-Cell Carcinoma of the Head and Neck; N Engl J Med 2016; 375:1856-1867; Burtneß B et al., Pembrolizumab alone or with chemotherapy versus cetuximab with chemotherapy for recurrent or metastatic squamous cell carcinoma of the head and neck (KEYNOTE- 048): a randomized, open-label phase 3 study; Lancet 2019; 394(10212):1915-1928<https://www.opdivo.com/head-and-neck-cancer><https://www.keytruda.com/head-and-neck-cancer/keytruda-clinical-trials/>

Promising Survival Benefit

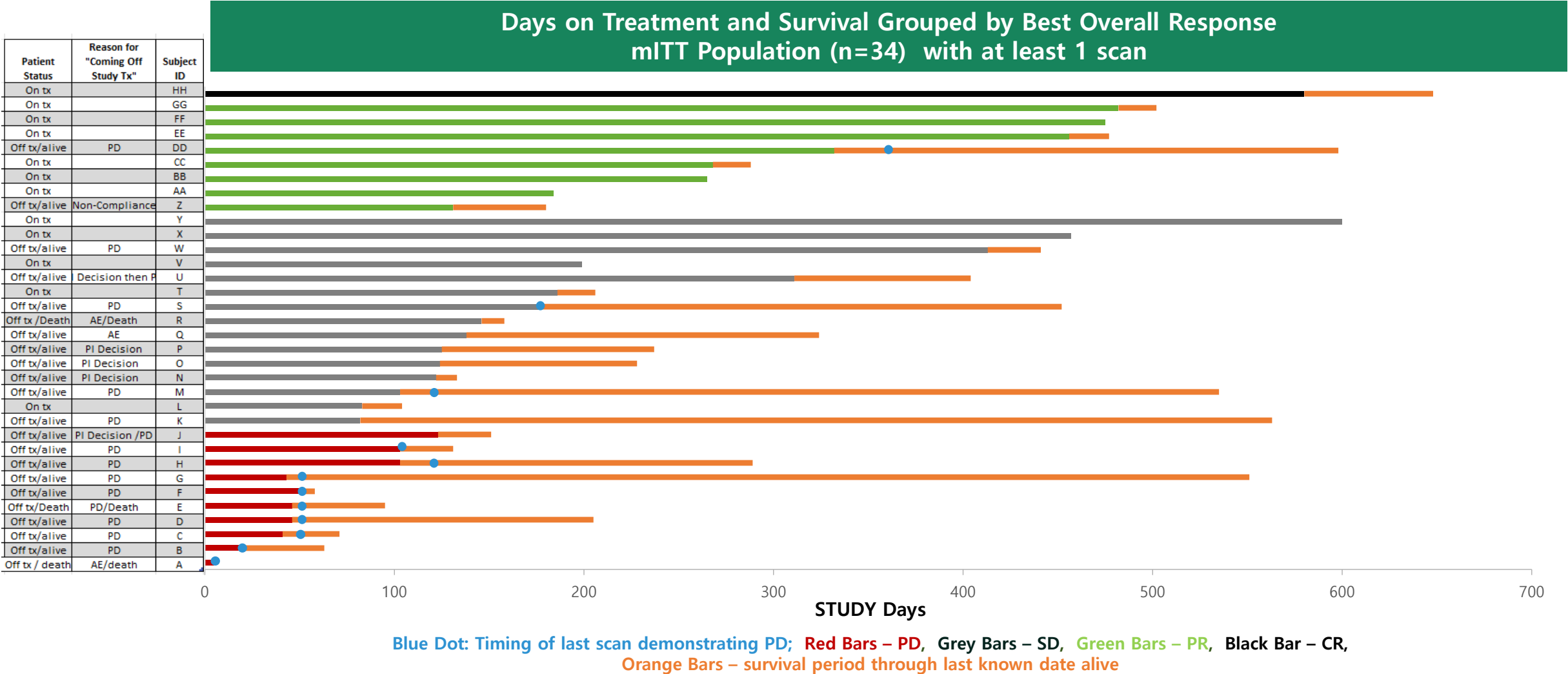
Demonstrated 12-month OS rate of 87.1%; published results of 35-50% for approved immune checkpoint inhibitors*



*No control or comparative studies have been conducted between immune checkpoint inhibitors and PDS0101; Ferris R.L., Nivolumab for Recurrent Squamous-Cell Carcinoma of the Head and Neck; N Engl J Med 2016; 375:1856-1867; Burtess B et al., Pembrolizumab alone or with chemotherapy versus cetuximab with chemotherapy for recurrent or metastatic squamous cell carcinoma of the head and neck (KEYNOTE- 048): a randomized, open-label phase 3 study; Lancet 2019; 394(10212):1915-1928<https://www.opdivo.com/head-and-neck-cancer><https://www.keytruda.com/head-and-neck-cancer/keytruda-clinical-trials/>

**All subjects either alive, lost to follow up, or who have left the trial are censored at the last known date of contact, or at Day 1, if they do not have any post-baseline visits or assessments. The 12-month OS rate for the mITT population, excluding the 14 most recently enrolled patients, is 86.5%.

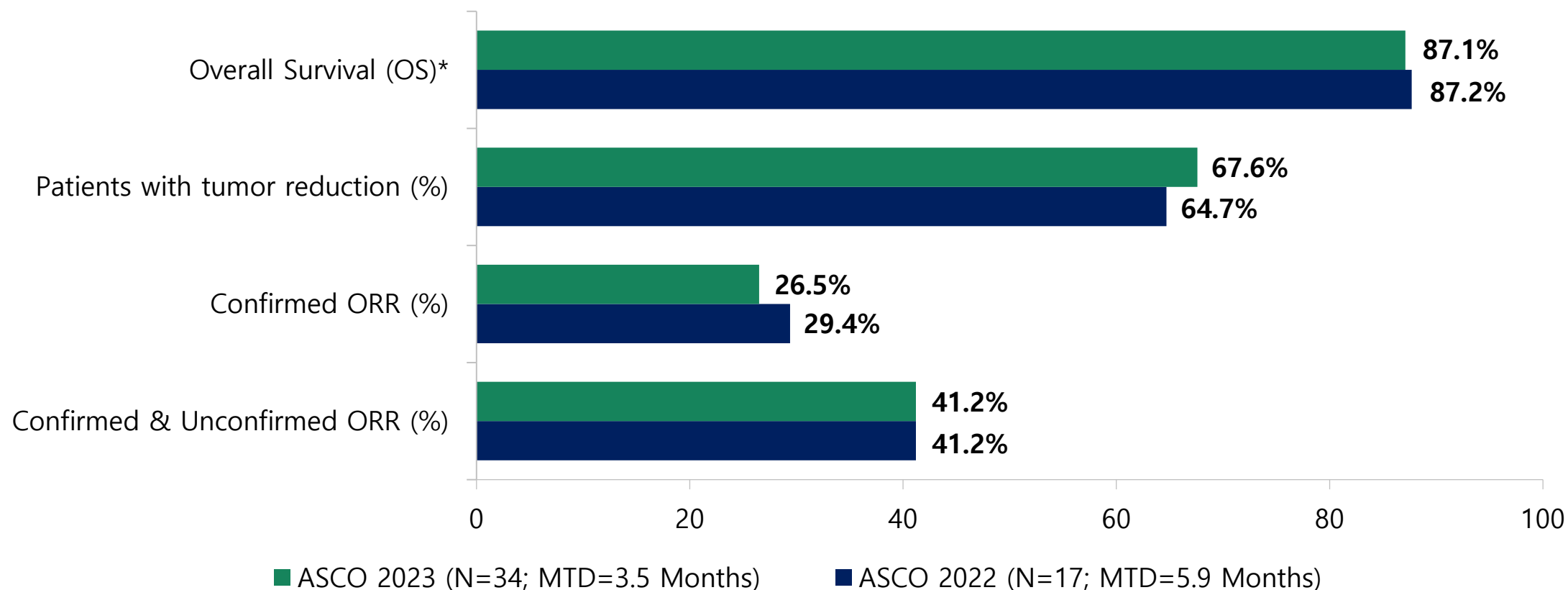
Several Patients Approaching Two Years of Survival



Tumor Reduction, ORR and OS Remain Consistent

Comparison: ASCO 2022 & 2023 PDS0101 + KEYTRUDA® Clinical Results

ASCO 2022 vs ASCO 2023 Data



Antibody-Conjugated IL-12 (PDS0301)



- A novel investigational tumor-targeting Interleukin 12 (IL-12) that enhances the proliferation, potency and longevity of T cells in the tumor microenvironment
- Together with Versamune[®] based immunotherapies PDS0301 works synergistically to promote a targeted T cell attack against cancers
- PDS0301 is given by a simple subcutaneous injection
- Clinical data suggest the addition of PDS0301 to Versamune[®] based immunotherapies demonstrate disease control by shrinking tumors and prolonging survival in recurrent or metastatic cancers with poor survival prognosis