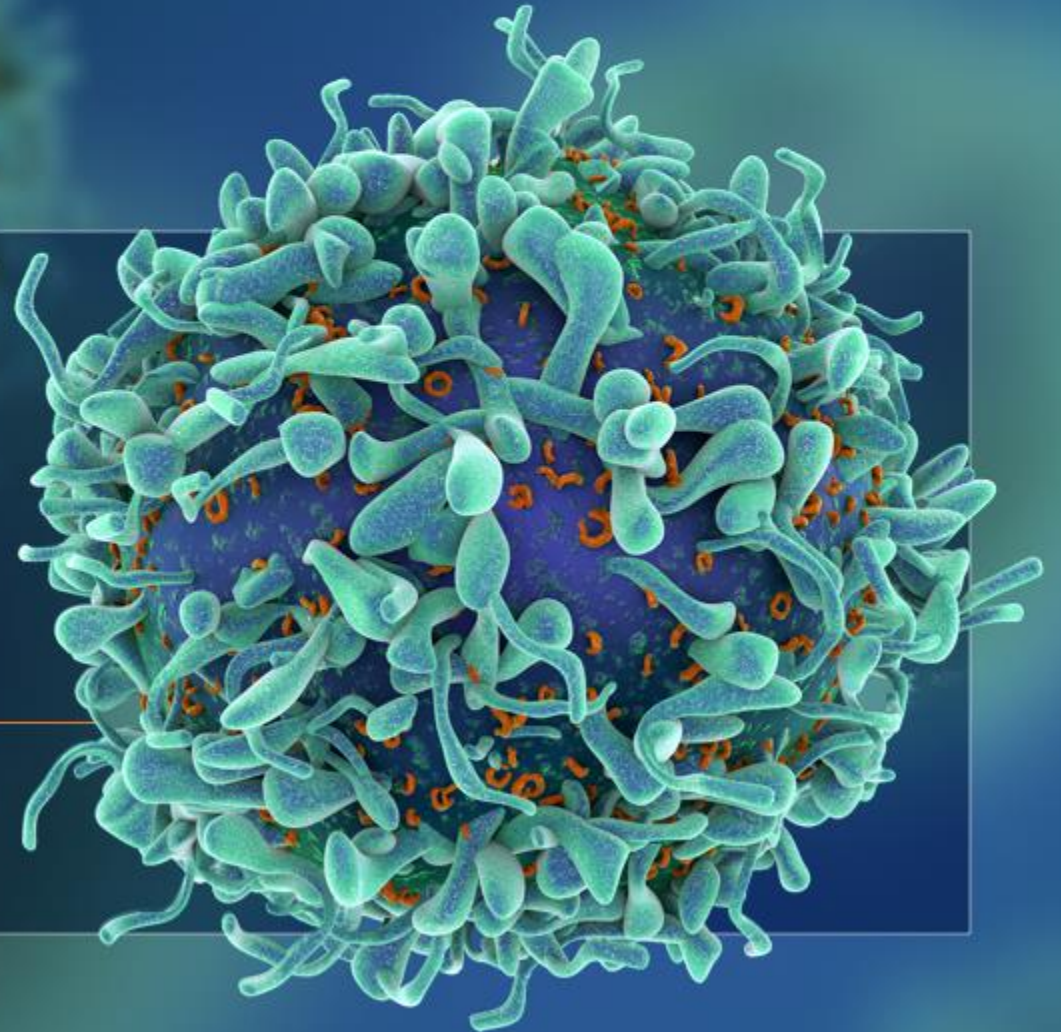




Rising to the Challenges of Rare Disease Treatment

NASDAQ: SNGX

March 17, 2026



Forward-Looking Statements

This presentation contains forward-looking statements. All statements other than statements of historical facts contained in this presentation, including statements regarding our future results of operations and financial position, business strategy, prospective products and product candidates and their development, regulatory approvals, ability to commercialize our products and product candidates and attract collaborators, reimbursement for our product candidates, research and development costs, timing and likelihood of success, plans and objectives of management for future operations, our ability to obtain and maintain intellectual property protection for our product candidates and their development, competing therapies, and future results of current and anticipated products and product candidates, are forward-looking statements. These statements involve known and unknown risks and uncertainties, such as experienced with the COVID-19 outbreak, and other important factors that may cause our actual results, performance or achievements to be materially different from any future results, performance or achievements expressed or implied by the forward-looking statements, many of which are disclosed in detail in our reports and other documents filed with the Securities and Exchange Commission. Because forward-looking statements are inherently subject to risks and uncertainties, some of which cannot be predicted or quantified and some of which are beyond our control, you should not rely on these forward-looking statements as predictions of future events. The events and circumstances reflected in our forward-looking statements may not be achieved or occur and actual results could differ materially from those projected in the forward-looking statements. Except as required by applicable law, we do not plan to publicly update or revise any forward-looking statements contained herein, whether as a result of any new information, future events, changed circumstances, or otherwise. Certain information contained in this presentation and statements made orally during this presentation relate to or are based on studies, publications, surveys and other data obtained from third-party sources. In addition, no independent source has evaluated the reasonableness or accuracy of Soligenix, Inc. internal estimates and no reliance should be made on any information or statements made in this presentation relating to or based on such internal estimates.

Company Description

Soligenix, Inc. is a late-stage biopharmaceutical company focused on developing and commercializing products to treat rare diseases where there is an unmet medical need

Two areas of focus:

- A ***Specialized BioTherapeutics segment*** dedicated to the development of products for orphan diseases and areas of unmet medical need in oncology and inflammation
- A ***Public Health Solutions segment*** that develops vaccines and therapeutics for military and civilian applications in the areas of ricin exposure, emerging and antibiotic resistant infectious disease, and viral disease including Ebola, Marburg and COVID-19

Investment Highlights

- Robust pipeline consisting of multiple fast track and/or orphan designated products, with potential for significant commercial returns of ~\$2B in global annual sales
- Late clinical-stage assets, one with successful Phase 3 data readout
 - **Cutaneous T-cell lymphoma (HyBryte™ or SGX301)**
 - **Positive statistically significant results achieved in first Phase 3 study**; published JAMA Dermatology
 - Second confirmatory Phase 3 study of similar design accepted by EMA; FDA discussions remain ongoing
 - **Confirmatory Phase 3 double-blind, placebo-controlled study in ~80 patients; actively enrolling patients**
 - Significant commercial opportunity in area of unmet medical need; **estimated global market potential >\$250M**
 - **Psoriasis (SGX302)**
 - **Positive and statistically significant results achieved in Phase 1/2 proof of concept (POC) study**
 - Phase 2a study in mild-to-moderate psoriasis **completed; clinical success observed with both ointment and gel formulations**
 - Significant commercial opportunity in area of unmet medical need; **estimated global market potential >\$1B**
 - **Behçet's Disease (SGX945)**
 - Phase 2a POC study in aphthous ulcers in Behçet's Disease **complete; biological efficacy and safety achieved**
 - Significant commercial opportunity in area of unmet medical need; **estimated global market potential >\$200M**
- Collaborations with biotech, academia and government agencies
- Non-dilutive government funding helps cover operating expenses
 - NIH grant awards supporting vaccine development; potential for up to 3 Priority Review Vouchers (PRVs)
- Experienced management team and renowned advisors with record of success



Development Pipeline – Rare Diseases

Specialized BioTherapeutics

Product Candidates	Preclinical	Phase 1	Phase 2	Phase 3	NDA Review	Market
HyBryte™ (synthetic hypericin sodium) Cutaneous T-Cell Lymphoma (CTCL)	ORPHAN & FAST TRACK DESIGNATION			Positive Phase 3 study results; confirmatory Phase 3 study actively enrolling patients; FDA discussions remain ongoing		
SGX942 (dusquetide) Oral Mucositis in Head & Neck Cancer*	FAST TRACK			2 nd Phase 3 study contingent upon additional funding and/or partnership		
SGX302 (synthetic hypericin sodium) Mild-to-Moderate Psoriasis				Positive proof-of-concept (POC) in Phase 1/2 pilot study; Phase 2a study complete; clinical success demonstrated		
SGX945 (dusquetide) Aphthous Ulcers in Behçet's Disease	ORPHAN AND FAST TRACK			Phase 2a POC study complete; positive biological efficacy		

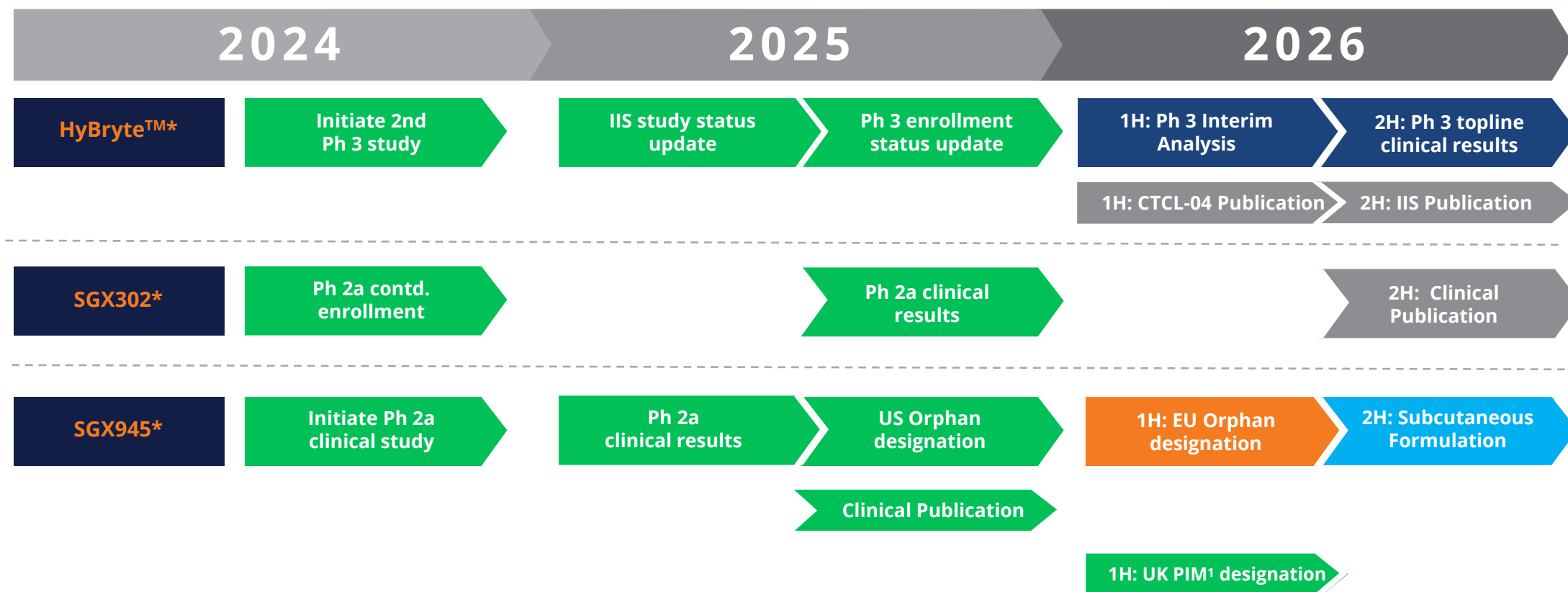
Public Health Solutions*

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Multiple Potential Value Drivers



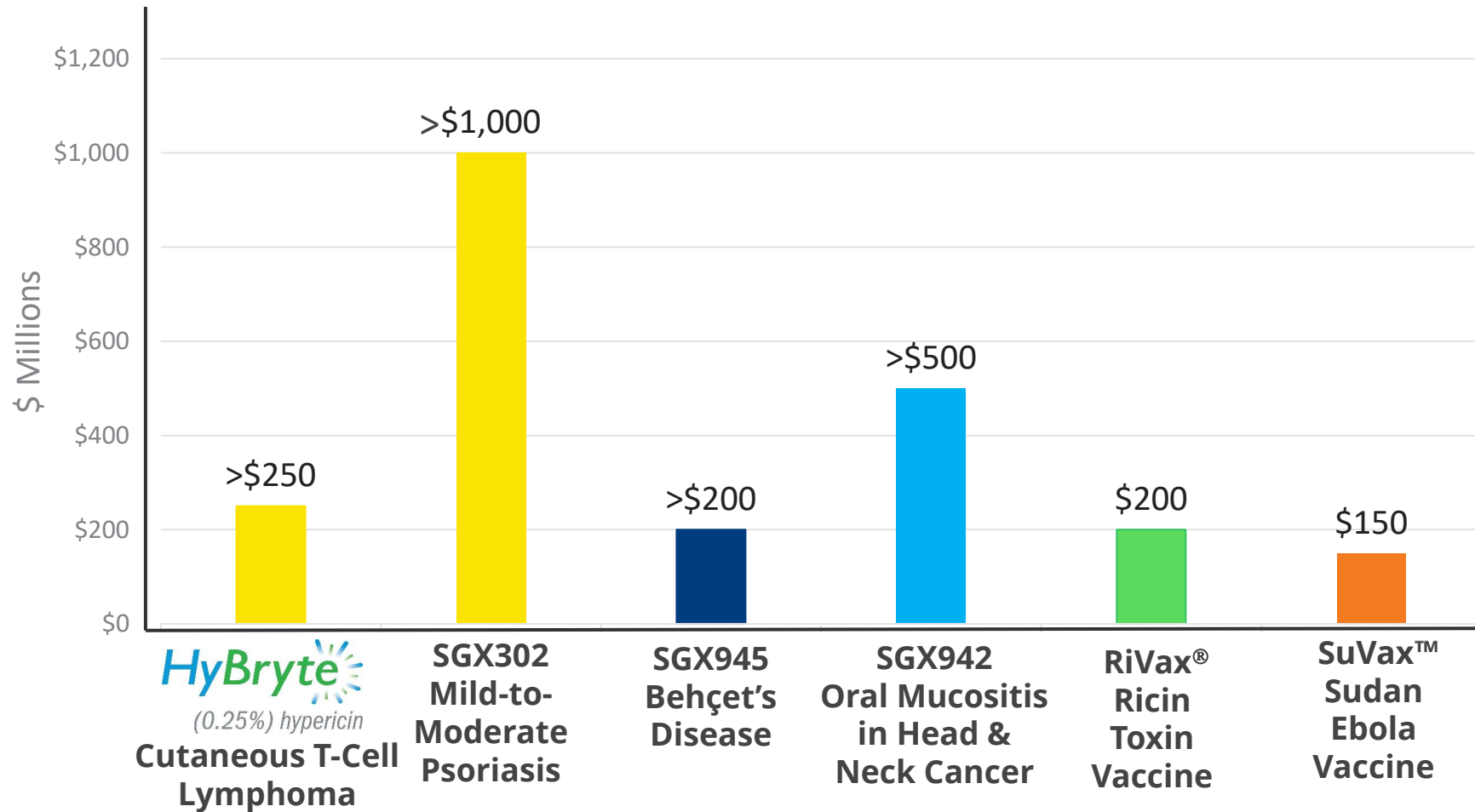
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¹ Priority Innovative Medicine (PIM) designation

² Innovative Licensing and Access Pathway (ILAP) process

■ Achieved ■ Data Read-out ■ Clinical ■ Regulatory ■ Nonclinical

Total Addressable Global Market



Assumptions⁽¹⁾

Cutaneous T-Cell Lymphoma

30,000 Patients US
38,000 Patients Europe

Mild-to-Moderate Psoriasis

3,000,000 Patients US
5,000,000 Patients Europe

Behçet's Disease

18,000 Patients US
50,000 Patients Europe

Oral Mucositis in Head & Neck Cancer

90,000 Patients US
90,000 Patients Europe

RiVax® Ricin Vaccine

Assumes 5 year procurement order of
\$200 million (*PRV potential*)

SuVax™ Ebola Vaccine

Assumes 5 year procurement order of
\$150 million (*PRV potential*)

(1) Supporting data on file

Experienced Management and Board of Directors

Christopher J. Schaber, PhD Chairman, President & CEO	• 35 years of experience • Discovery Laboratories (COO) • Acute Therapeutics (Co-Founder) • Ohmeda Pharmaceuticals • The Liposome Company • Wyeth Ayerst	Gregg Lapointe, CPA, MBA	• 30 years of experience • Cerium Pharmaceuticals (CEO) • Formerly of Sigma-Tau Pharmaceuticals, AstenJohnson, PricewaterhouseCoopers
Richard Straube, MD Chief Medical Officer	• 35 years of experience • Stealth Peptides Inc. • INO Therapeutics • Ohmeda Pharmaceuticals • Centocor	Diane Parks	• 30 years of experience • Formerly of Kite Pharma, Pharmacyclics, Amgen, Genentech
Oreola Donini, PhD Chief Scientific Officer	• 20 years of experience • Inimex Pharmaceuticals • ESSA Pharma, Inc. • Kinetek Pharmaceuticals	Robert Rubin, MD	• 40 years of experience • Georgetown School of Medicine • Formerly of The Lewin Group • Former U.S. Assistant Surgeon General
Jonathan Guarino, CPA, CGMA Chief Financial Officer	• 25 years of experience • Hepion Pharmaceuticals, Inc. • Covance, Inc. • BlackRock, Inc. • Barnes & Noble, Inc. • PricewaterhouseCoopers LLP	Jerome Zeldis, MD, PhD	• 35 years of experience • Formerly of Celgene Corporation (CMO), Sandoz, Janssen Research Institute, Sorrento, Celularity, NexImmune

Specialized BioTherapeutics

Targeted Approach to Treating Oncology & Inflammation

Specialized BioTherapeutics Segment

Commercial Targets – Unmet Medical Needs in Oncology and Inflammation

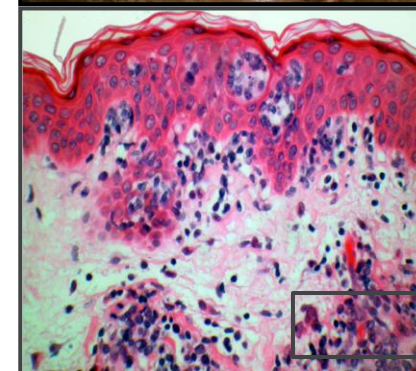
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Cutaneous T-Cell Lymphoma – Disease Overview

- **Cutaneous T-cell lymphoma (CTCL)**
 - Rare class of Non-Hodgkin's Lymphoma (NHL)
 - Malignant T-cells migrate to the skin
 - Cancer forms patches, lesions or tumors
- **CTCL affects over 40,000 NHL patients worldwide; currently no cure**
 - \$250 million total addressable global market; >\$90 million in US
- **Two main subtypes of CTCL**
 - Mycosis fungoides (MF) – Early-stage (I-IIA) most common, 88% 5-year survival rate
 - Sézary syndrome (SS) – Advanced-stage, 24% 5-year survival rate
- **No approved first-line therapy for early stage (I-IIA) CTCL (~90% of CTCL patients); *unmet medical need***



Atypical T-cells
in dermis

HyBryte™ – Synthetic Hypericin Sodium Ointment + Light Activation, First-in-Class



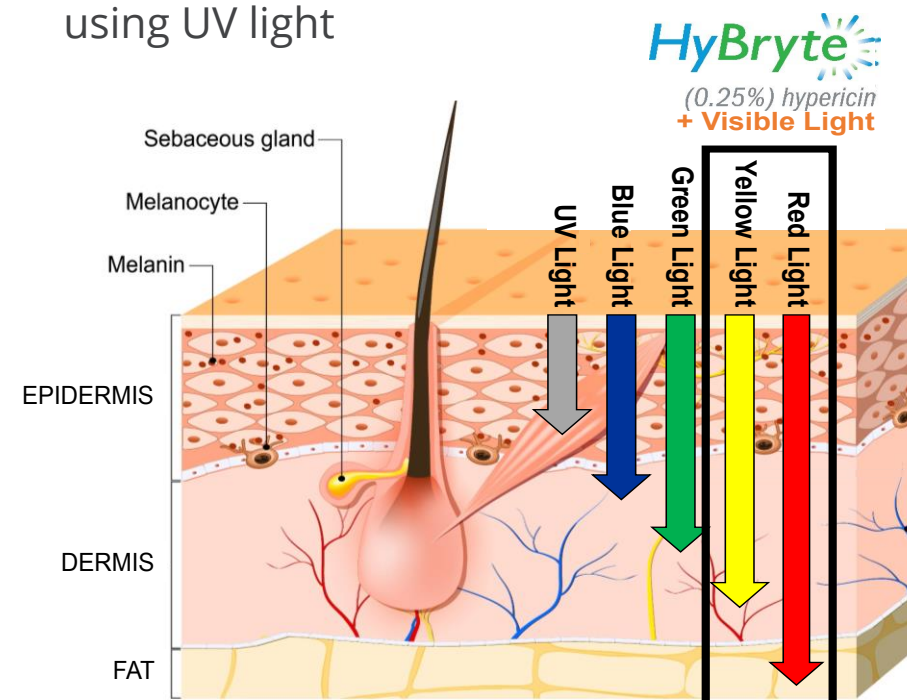
➤ Treatment safe and well-tolerated

- **Minimal reported adverse events**
 - Other CTCL treatments characterized by acute and chronic side effects
- **Uses visible fluorescent light**
 - **Not** carcinogenic unlike other phototherapies using UV light

➤ US/EU orphan designations; US fast track status

➤ Rapid treatment response

- Phase 3 data demonstrates **statistically significant efficacy as early as 6 weeks** with improved responses through 12 weeks (40%) and **18 weeks (49%)**
 - Most early-stage CTCL treatments require *at least 12 months* to observe a statistically significant response
- **Effective against patch and deeper plaque lesions**
 - Other early-stage CTCL treatments known to be useful against patches but lacking in efficacy against plaques



HyBryte™ – Phase 3 Clinical Trial

referred to as the “FLASH” (Fluorescent Light And Synthetic Hypericin) Study

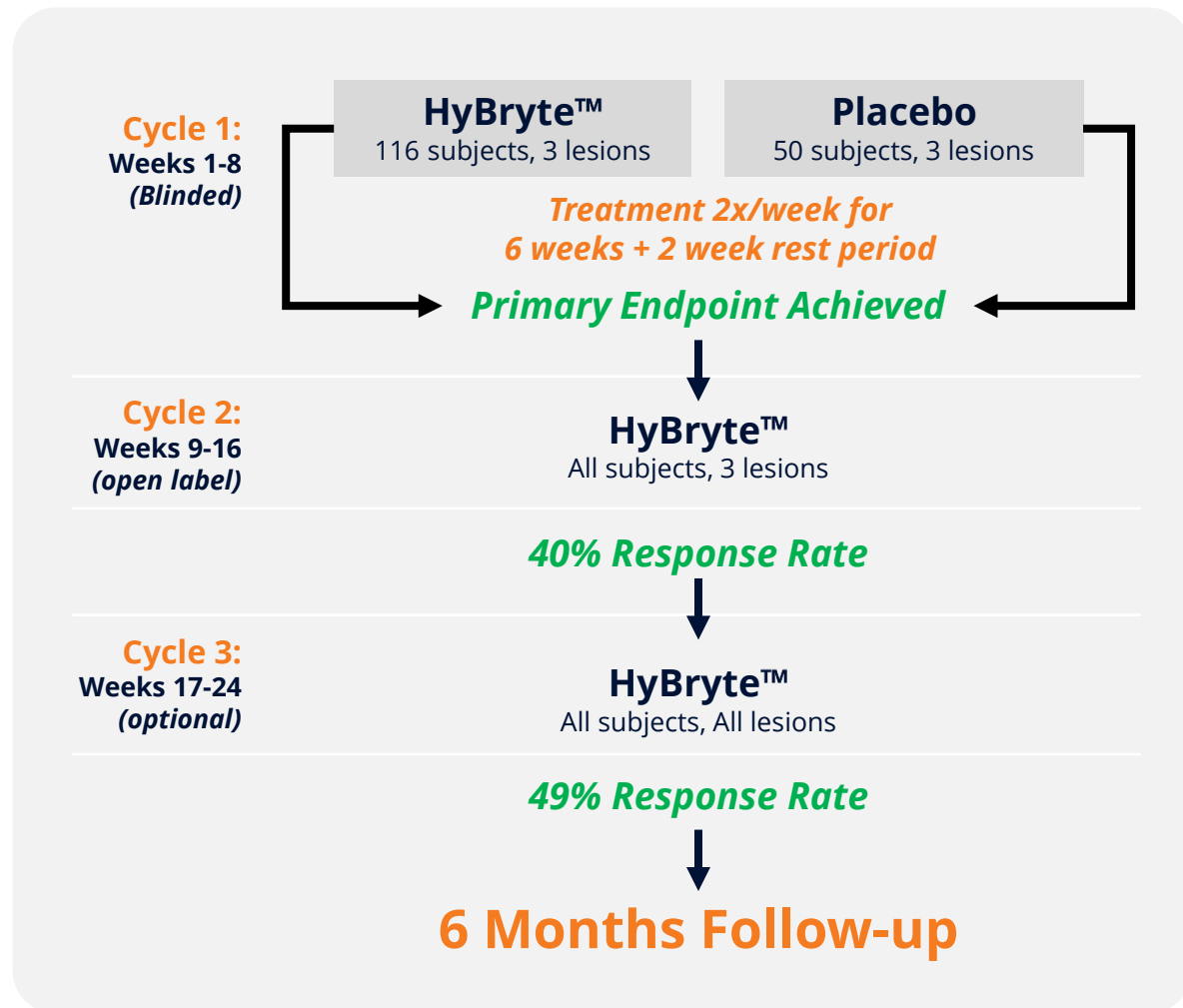
(*JAMA Dermatology*. Published online July 20, 2022. doi:10.1001/jamadermatol.2022.2749)

➤ Double-blind, placebo-controlled, randomized

- Randomized 2:1 (HyBryte™ [synthetic hypericin 0.25%] : placebo)
- **Cycle 1 complete: Primary Endpoint (response rate) statistically significant ($p=0.04$)**
 - **Primary endpoint:** Percent of patients achieving $\geq 50\%$ cumulative reduction as assessed by Composite Assessment of Index Lesion Severity (CAILS) score for 3 index lesions at the end Cycle 1 (week 8)
- **Cycle 2 complete: Statistically significant improvement in treatment response of 40% ($p<0.0001$)**
- Statistically significant improvement in **BOTH patch and plaque lesion responses** after Cycle 2
 - **Plaque:** 42% improvement ($p<0.0001$)
 - **Patch:** 37% improvement ($p=0.0009$)
- **Optional Cycle 3 complete: Statistically significant improvement in treatment response of 49% ($p<0.0001$)**

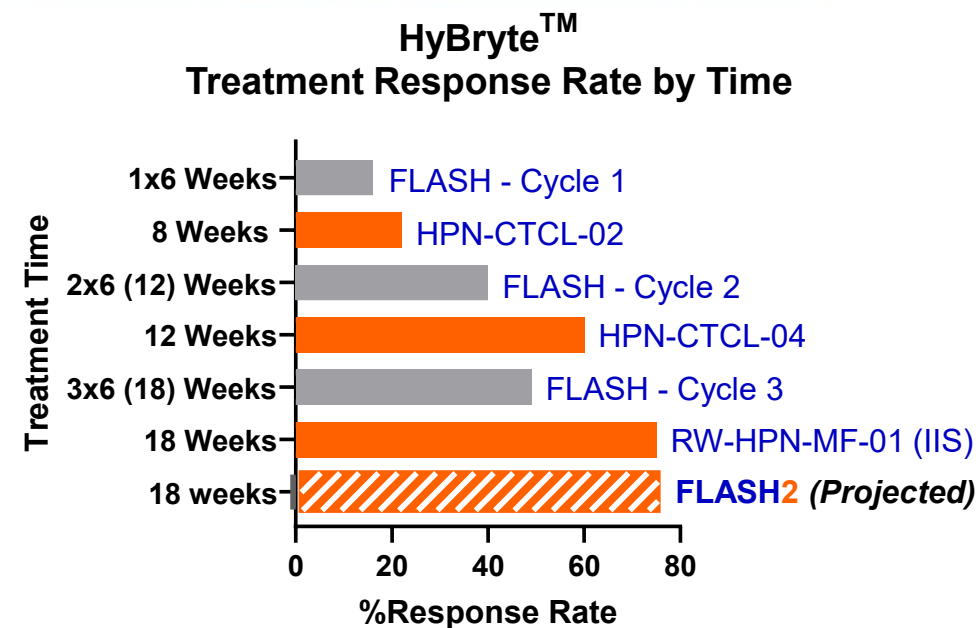
➤ Secondary Endpoints

- Treatment response (including duration), degree of improvement, time to relapse and safety



HyBryte™ – Development Status

- **Positive Phase 3 FLASH study successfully completed**
 - Largest double-blind, randomized, placebo-controlled clinical trial ever conducted in CTCL
 - FDA and EMA require a second confirmatory Phase 3 clinical trial
- **Recent supportive studies confirm increased response rate with continuous treatment durations up to 18 weeks**
- **Second confirmatory Phase 3 study (FLASH2) of similar design with 18 week double-blind, placebo-controlled treatment duration compared to only 6 weeks in first FLASH study; agreed with EMA**
 - Key criteria: inclusion/exclusion and primary endpoint same
- **FLASH2 study enrollment began January 2025**
 - **66 patients of ~80 total patients** enrolled (as of 2/10/26)
 - Interim analysis on-track for 2Q2026
 - Top-line results 2H2026
- **FLASH and FLASH2 trials to support potential marketing approvals worldwide**

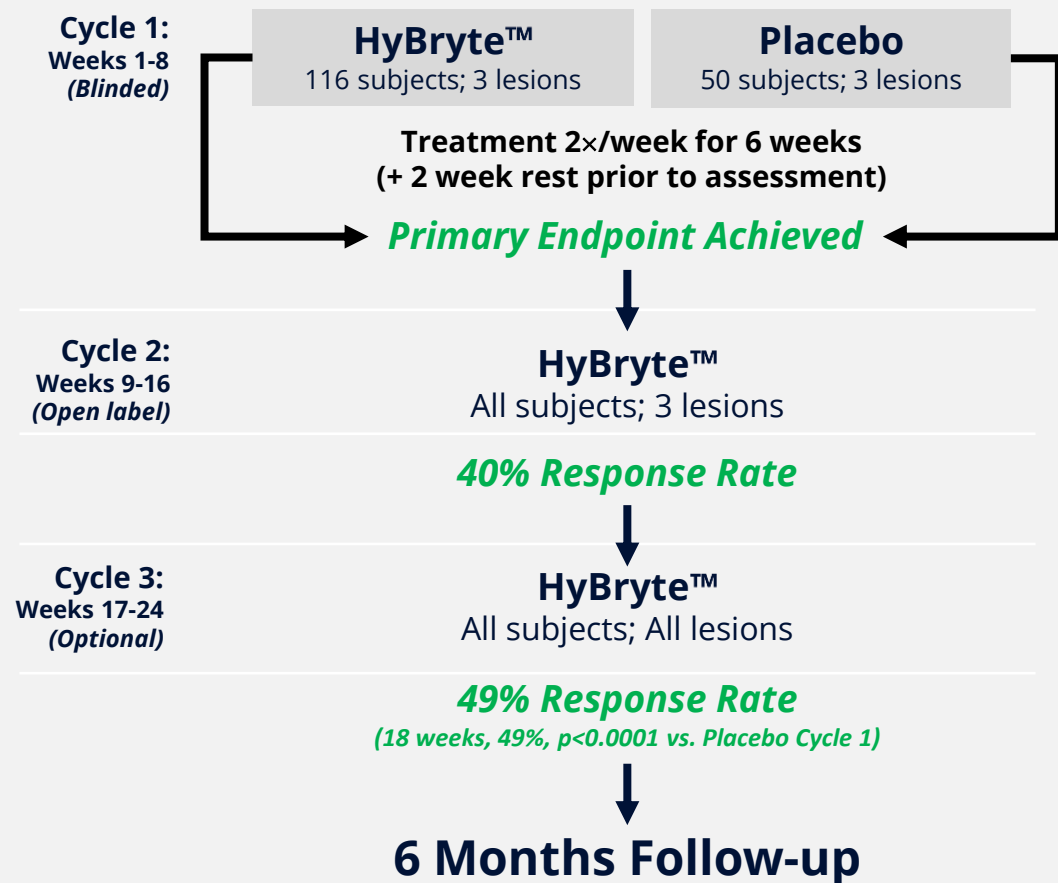


FLASH2 Blinded Aggregate Response Rate

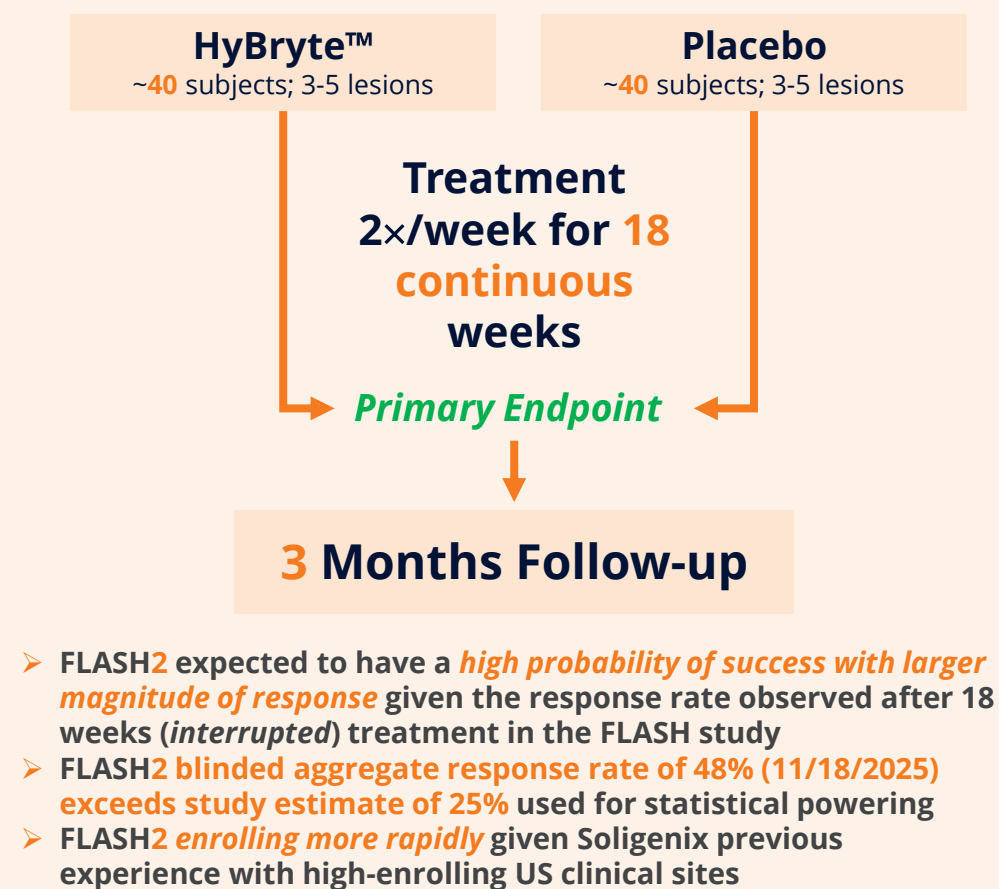
- ❖ Powered to demonstrate 25% aggregate response (40% active + 10% placebo = 50%/2, randomized 1:1)
- ❖ Actual blinded aggregate response rate of 48% (as of 11/18/2025)

Comparison of FLASH and FLASH2 Studies

FLASH



FLASH2



Significant Opportunity for Improvement to Current Treatment Paradigm in Early Stage CTCL

Early Stage CTCL Treatment Paradigm



Topical steroids

(Typically pre-diagnosis, not often efficacious; not approved for CTCL)

HyBryte

(0.25%) hypericin

(Approved in CTCL 1st line)¹

Mechlorethamine
(2nd line)

nbUVB²
(Not approved
for CTCL)

**Topical
Retinoids**
(2nd line)

PUVA³
(Not approved
for CTCL)

Current Treatment Landscape

- Because of chronic nature of early stage CTCL and long-term treatment cycles, clinicians choose therapies with better safety profiles first and foremost
- Clinicians see critical need for additional treatment options with fewer side effects
- NB UVB and PUVA are not targeted therapies and have serious side effects with extended use (e.g., melanoma)
- NB UVB is used on 20%-50% of early-stage CTCL patients, despite not being approved

"[We] only have two FDA approved drugs with lots of side effects." — Specialist Dermatologist at Center of Excellence

Empiric Tx

CTCL Dx Tx

HyBryte™ a Significant Commercial Opportunity Addressing a Clear Unmet Need



Unmet Need

- Clinicians see need for additional treatment options with fewer side effects
- Most patients cycle through several treatments over course of their disease
- Chronic nature of early stage CTCL and dissatisfaction with current therapies provides opportunity for HyBryte™



Positive Feedback

- Dersms like *efficacy* of HyBryte™; rapid response with equal effect on both patches and plaques
- Dersms like *safety* of HyBryte™; use of safe, visible light vs. UV light exposure
- 4 of 5 Dersms likely to prescribe HyBryte™



Efficient Commercialization

- Planned launch focused on high volume CTCL specialists
- Targeted sales force of ~20 reps; reaching >80% of high-volume prescribers
- Partnership with medical device company, Daavlin, allows convenient end-to-end business solution for companion light unit to customers



Sales Potential

- Treatment will not have large financial impact on payers; low/no barriers to access as reimbursement can occur under existing CPT code
- Competing 2nd line products with inferior profiles have achieved similar sales
- Life cycle management upside, with potential to transition to home use setting

HyBryte

(0.25%) hypericin

>\$250M

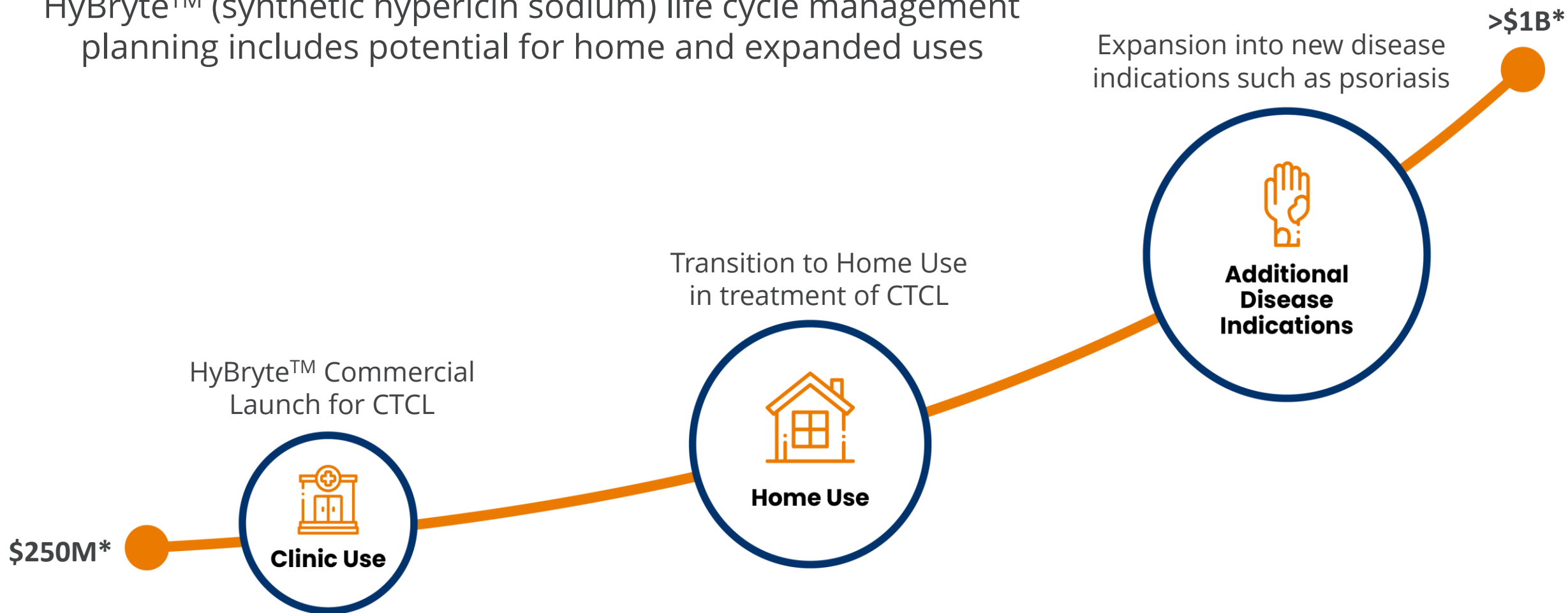
**WW Annual
Net Sales**

Psoriasis and SGX302 (Synthetic Hypericin)

- **Caused by dysregulated T-cells**
 - Affects 60-125 Million people worldwide
 - Affects 8 Million people in the US
- **SGX302 – visible light activated photodynamic therapy**
 - Same active ingredient as HyBryte™
 - Focused on mild-moderate patients, especially the majority with mild-moderate plaque disease
 - Positive Phase 1/2 pilot study complete
 - Phase 2a clinical trial complete; clear biological signal demonstrated in Cohort 1; clinical successes observed in Cohort 2 (ointment formulation) and Cohort 3 (gel formulation) with accelerated light schedule during 18 week treatment period
- **Advantages**
 - Other photodynamic/phototherapy approaches in psoriasis use UV light, with significant side effects including risk of cancer
 - Other skin-directed therapies have limited efficacy or can cause localized skin damage
 - Not addressing severe disease (and therefore not competing with biologics or systemic therapies)
 - Potential for in-clinic or at-home use
- **Targeted skin directed therapy for mild-to-moderate psoriasis patients (~70% of psoriasis patients); underserved market opportunity**

HyBryte™ Life Cycle Management

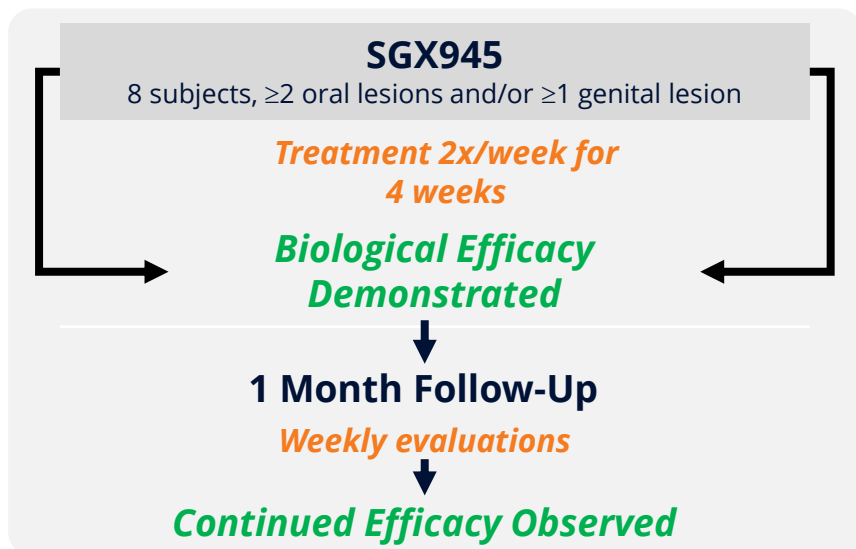
HyBryte™ (synthetic hypericin sodium) life cycle management planning includes potential for home and expanded uses



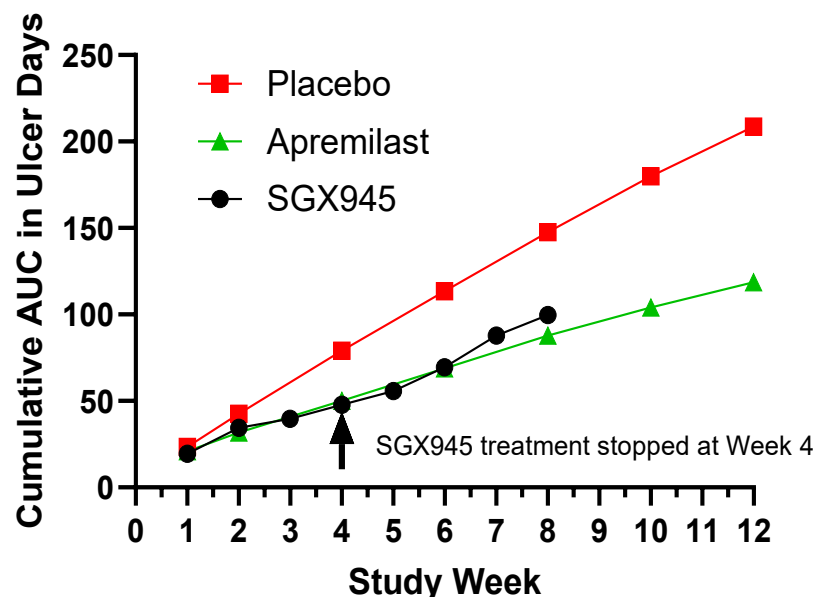
* Total addressable global market

Behçet's Disease and SGX945 (dusquetide)

- Phase 2a POC study in 8 patients with Behçet's Disease (BD)
- Compared to Phase 3 apremilast (Otezla®) placebo-controlled study supporting approval
 - Matched inclusion-exclusion criteria
 - Matched key endpoint measures (area under the curve [AUC] of number of oral lesions over time, oral pain)



SGX945 Outcomes vs. Apremilast and Placebo*



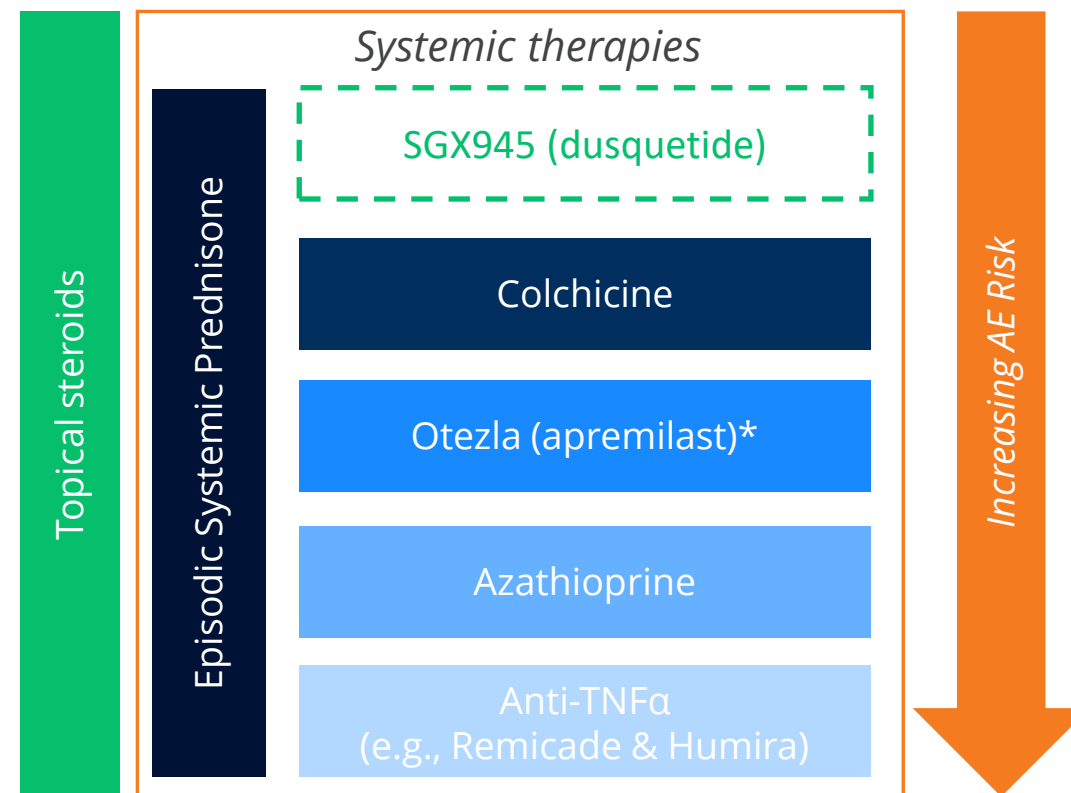
**Improvement vs. Placebo*
in AUC**

Timepoint	Apremilast	SGX945
Week 4	37%	40%
Week 8	41%	32%

*Historical data for apremilast and placebo derived from [Hatemi 2019](#).

Without a cure, the primary goal of BD treatment is the elimination and management of recurrent ulcers

- General agreement amongst rheumatologists that **current treatment/management options** (i.e., oral & topical steroids, colchicine, azathioprine) **are largely ineffective for BD patients**
- Systemic therapies are used to try to reduce flare frequency, duration, and severity
 - Access, tolerability, patient-willingness, and adverse event (AE) risk influence systemic therapy choice
 - Mild patients may elect to forgo systemic therapy because of treatment burden or AE risk
- Episodic systemic prednisone is effective at rapidly reducing BD symptoms; however, they are prescribed sparingly because of systemic effects
- Regardless of systemic therapy use, all BD patients are prescribed topical steroids to help control mucocutaneous flares



*Only approved treatment for oral ulcers in BD

Public Health Solutions

Addressing Critical Concerns for Industry and Government

Public Health Solutions Segment

Funded by Government – Medical Countermeasures (MCMs) for Civilian and Military Use

Product Candidates (FDA Animal Rule)*	Proof-of-Concept	IND	Phase 1	Phase 2/3	BLA Review	Market
RiVax® + ThermoVax® – Vaccine Ricin Toxin Pre-Exposure	ORPHAN & FAST TRACK DESIGNATION			NIH Contract Awards of \$30M to date; positive preclinical and clinical data		
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 Denotes funding by US federal government

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With FDA MCM approvals, potential to be awarded:

- **Up to 3 Priority Review Vouchers (PRVs have sold for ~\$100 million)**
to be used for future programs or sold, and/or
- **Government Procurement Contracts**
for supplying strategic national stockpile

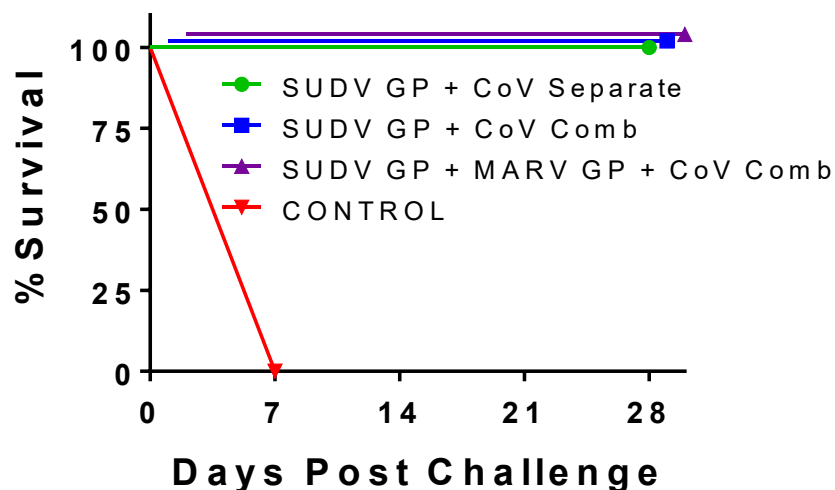
SuVax™ / MarVax™ – Filovirus Vaccine Candidates

Heat-stable single-vial bivalent
SUDV + MARV vaccine provided

100% protection against
SUDV and MARV challenge:

Published in Vaccine

**SUDV Challenge
at Week 12**



Market Opportunity

- Filovirus infections (*Zaire ebolavirus*, *Sudan ebolavirus*, *Marburg marburgvirus*) are deadly; only Zaire strain vaccines are available and requires $\leq -60^{\circ}\text{C}$ shipping/storage
- Disease-endemic areas benefit from ability to avoid cold-chain distribution
- Government has placed priority on development activities, with *Marburg marburgvirus* and *Sudan ebolavirus* areas of unmet medical need
- Potential for SuVax™/MarVax™ to qualify for Priority Review Vouchers

Development Status

- Collaboration with the University of Hawai'i at Mānoa
- Demonstration of efficacy in NHPs
- Bi- and Tri-valent mixtures feasible
- US orphan drug designations granted
- Stability of at least 2 years at $40^{\circ}\text{C}/104^{\circ}\text{F}$ demonstrated.

In Summary

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Thank you

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