

Hope Delivered: Changing Lives For the Better

Discovering, developing, and commercializing innovative therapies to improve the quality of life for underserved patients and their communities



Safe Harbor Statement

This presentation contains forward-looking statements regarding the research, development and commercialization of pharmaceutical products. Such forward-looking statements are based on current expectations and involve inherent risks and uncertainties, including factors that could delay, divert or change any of them, and could cause actual outcomes and results to differ materially from current expectations. Some of these important risks and uncertainties are described in reports filed by Emmaus Life Sciences, Inc. ("Emmaus" or the "Company") with the U.S. Securities and Exchange Commission ("SEC"), including the Company's Annual Report on Form 10-K/A filed on August 10, 2021 and the Company's Quarterly Reports on Form 10-Q. Emmaus is providing this information as of the date of this publication or the dates stated within this publication and does not undertake any obligation to update any forward-looking statements as a result of new information, future events or otherwise.





Our Mission:

To improve the lives of people in need through the discovery, development and commercialization of innovative treatments and therapies. Our focus historically has been on sickle cell disease and other rare diseases but have since expanded our pipeline to include diseases affecting larger populations, such as diverticulosis.



A highly experienced management team with proven success in pharmaceutical research, development and commercialization led by CEO and principal inventor of Endari®, Yutaka Niihara, M.D., M.P.H.



Significant domestic and global opportunities targeting underserved sickle cell disease patient population and undeveloped therapeutic markets

Why invest in Emmaus?



Revenue generated yearly has increased since FDA approval in 2017 and despite the impact of COVID-19



With an FDA-recognized, favorable safety profile,

Endari® is safe for pediatric and adult use and can be safely used to improve the efficacy of other therapeutics



Emmaus has contributed Endari® to clinical trials in multiple conditions, including burn healing, diabetes, and pancreatic cancer and a trial underway for diverticulosis

Accomplished Leadership Team



Lead byDistinguished Clinician and
Principal Inventor of Endari®

Yutaka Niihara, M.D., M.P.H. – Chairman & CEO

- Physician specialist for Los Angeles County from 1992 to 2009, licensed to practice medicine in both the U.S. and Japan
- Published author in the area of sickle cell disease
- Principal inventor of Endari®
- Professor of Medicine at the David Geffen School of Medicine at UCLA

Willis Lee, MS

Vice Chairman & Chief Operating Officer

George Sekulich

Senior Vice President of Global Commercialization & Chief Information Officer

Charles Stark, Pharm.D.

Senior Vice President of Medical Affairs, Research, & Regulatory

Yasushi Nagasaki, CPA

Chief Financial Officer

Dale E. Short, JD

General Counsel & Corporate Secretary



































Collective Experience



Product Pipeline

Product ID	Preclinical	Phase 1	Phase 2	Phase 3	Commercial	Description
ELS001						Pharmaceutical grade L-glutamine to treat SCD (Endari®)
ELS004						Pharmaceutical grade L-glutamine to treat diverticulosis
ELS003						Lab device/research tool to measure transmittance cell sheet
ELS005						Cancer treatment targeting IRAK4 (Kainos Medicine partnership)
ELS002						Cultured autologous oral mucosal epithelial cell sheet transplantation for treatment of corneal limbal epithelial stem cell deficiency (Lundquist Institute partnership)

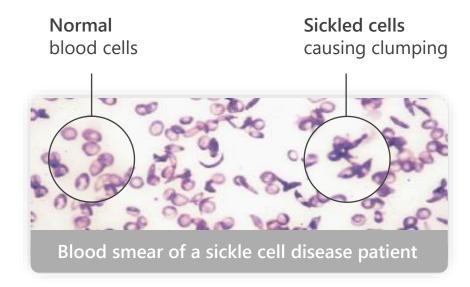


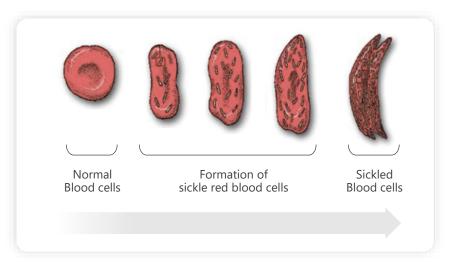
Sickle Cell Disease:

Cause and Effect

Sickle cell disease (SCD) is an autosomal recessive disorder, meaning each parent carries one copy of mutated gene.

- The most prevalent symptom of SCD is **pain**.
- SCD affects an estimated 20M 25M people worldwide, and there is no cure.







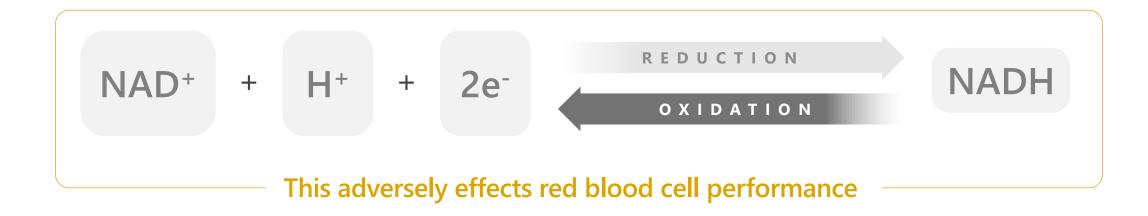
Sickle Cell Disease:

Cause and Effect

- NAD is nicotinamide adenine dinucleotide, a critical coenzyme found in every cell in your body, and it's involved in hundreds of metabolic processes.
- NAD exists in two forms: an oxidized and reduced form, abbreviated as

NAD⁺ and NADH⁺

The higher levels of oxidants experienced by SCD patients tilts the NAD+/NADH equilibrium towards NAD+ production.





The SCD Prognosis:

A domino effect



Patients experience pain and acute symptoms with increasing severity as chronic damage accumulates.

Sickle-shaped, adhesive and inflexible red blood cells occlude blood vessels, causing recurring crises and visceral pain

Increased risk of heart attacks, strokes, frequent infections – any of which can be deadly Patients' quality of life suffers, as they endure excruciating pain and subsequent negative effects on family, relationships and ability to work Devastating mortality expectancy, reduced life expectancy

The severe pain experienced by SCD patients often results in opioid dependency and organ damage

Episodes of acute chest syndrome (ACS), a crisis which often causes painful complications, frequent hospitalizations, and can be fatal



A reduction in sickle cell crises extends lives

As the number of crises decreases, the life expectancy for a patient dramatically increases



Endari® reduces instances of sickle cell crises



Annualized reduction in crisis rates

Trial patients on Endari® spend less time in the hospital

Potential savings on treatment costs of over \$2B annually (U.S.)¹



Driving down SCD hospitalization costs



Breaking the SCD hospital readmittance cycle

33%

p = 0.005

41%

p = 0.02

56%

p = 0.02

59%

p = 0.03

63%

p = 0.003

Lower frequency of hospitalization

Fewer days in hospital

Delay in the onset of first sickle cell crises

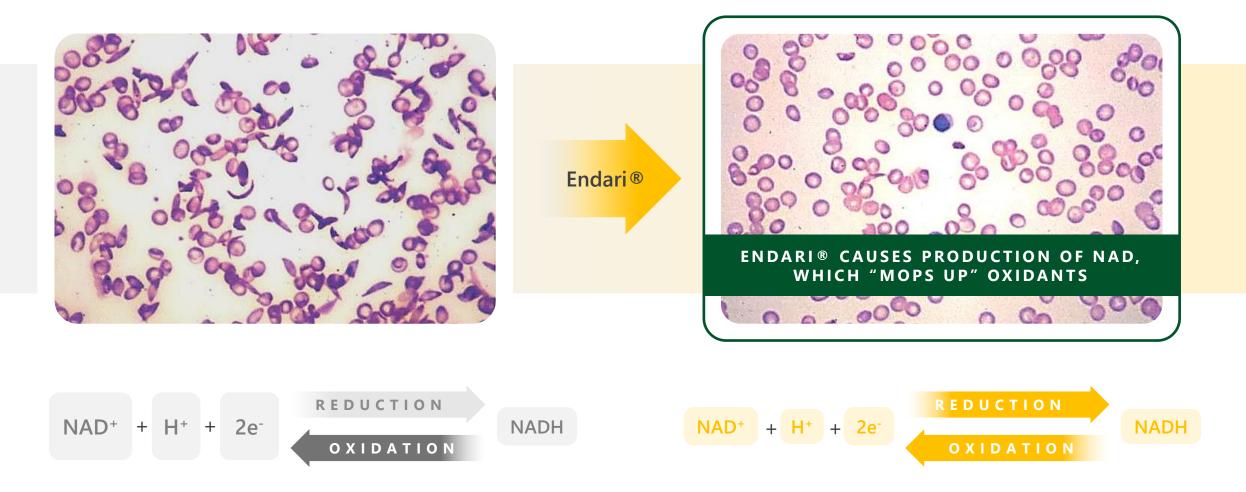
Delay in the onset of second sickle cell crises

Fewer cases of acute chest syndrome



Endari® (L-Glutamine) Impact

The results for an Emmaus early clinical trial patient after 12 weeks of treatment





Endari® is an effective therapeutic option for many SCD patients, and the only safe option for some

	Endari ® (L-glutamine)	Hydroxyurea	Siklos (Hydroxyurea) (Amedica)	Oxbryta (Global Blood Therapeutics)	Adakveo
Broad indication	YES	NO	NO	NO	NO
Black box warning NONE		YES	YES	NONE	NONE
Lab tests required	NONE	YES	YES	YES	YES
Patient age range	5+ years old	18+ years old, used off label for pediatrics	2+ years old	12+ years old	16+ years old



Financial Highlights

Income Statement Summary		Year Ended – December 31, 2020		Year Ended – December 31, 2021	
Revenues, net	\$	23,167	\$	20,610	
Gross Profit		20,919		17,298	
Operating Expenses		20,951		23,426	
Loss from Operations		(32)		(6,128)	
Net Income (Loss)		1,354		(15,946)	
Earnings (Loss) Per Common Share	\$	0.03	\$	(0.32)	
Weighted Average Common Shares Outstanding		48,897,004		49,253,156	
Statement of Cash Flow					
Cash Flows from (used in) Operating Activities	\$	(2,451)	\$	(1,254)	
Cash Flows from (used in) Investing Activities		5,470		(6,377)	
Cash Flows from (used in) Financing Activities		(2,310)		7,411	
Balance Sheet Summary					
Cash and Cash Equivalents	\$	2,487	\$	2,279	
Total Assets		59,536		56,734	
Total Current Liabilities		23,382		37,100	
Total Long-Term Liabilities		41,312		41,084	



Stock Information









Ticker Symbol

Shares Outstanding

Fully Diluted Shares

Insider Ownership

EMMA
(OTCQX)*

49,311,864

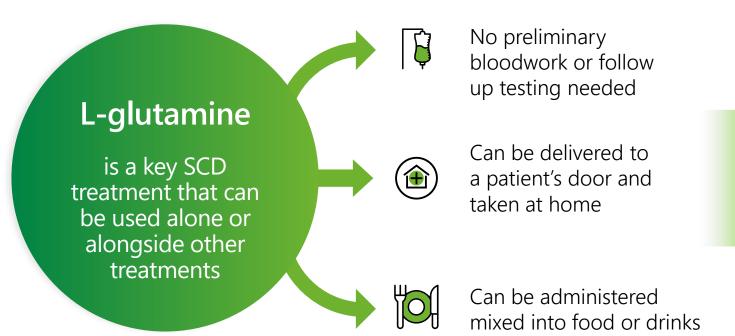
73,323,063(As of 3/31/2022)

30%

*With plans to uplist to a national exchange



Favorable safety profile makes accessible treatment options possible and compliance more likely





High potential to be first choice medication for telemedicine services

FDA label update recognizes that the clinical benefit was observed both with and without hydroxyurea use



Endari's success to date

COVID19 & entry of competitors

2017

2018

2019

2020

FDA approval for ages 5+

Indicated to reduce the acute complications of SCD in patients

"Safety profile similar to placebo with no serious adverse events. The most common adverse reactions (incidence > 10%) in clinical studies were constipation, nausea, headache, abdominal pain, cough, pain in extremities, back pain and chest pain"

\$16.5M Net Revenue

Endari's January launch was the first new SCD treatment in over 20 years for an underserved community

Published in the New England Journal of Medicine



\$22.8M Net Revenue

Launch of Commercial Co-Payment Assistance Program

Transition from an external contract sales force to an internal sales team

\$23.2M Net Revenue

APCER Life Sciences confirmed the safety profile and reported no serious safety concerns

FDA revised the safety label to add "clinical benefit was observed irrespective of hydroxyurea use"

Approved by Israeli Ministry of Health

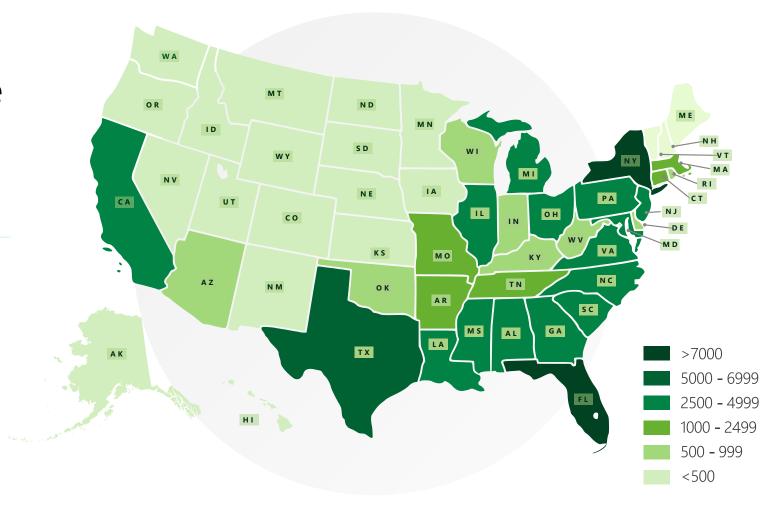
Dubai regional office opened



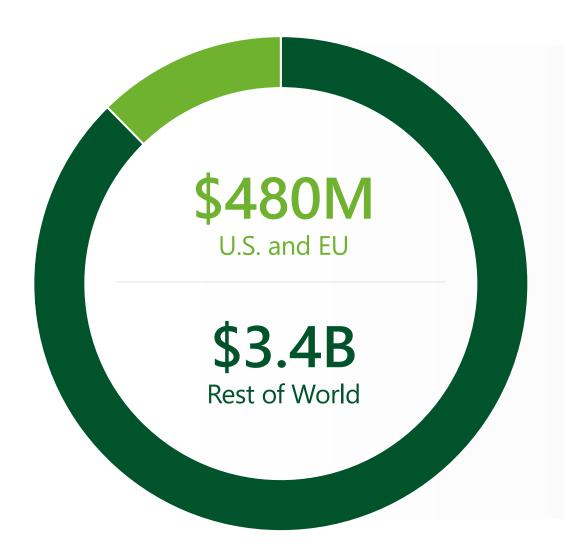
U.S. Strategy: a highly concentrated market allows for a smaller, more effective sales force

86% of patients reside in major metropolitan areas in **18** states

Our **19-person** field team is well deployed to serve this market







Europe

- Focus on early access programs
- EMA and UK approval process

Middle East & North Africa (MENA)

- Distribution partners in place
- Opened Dubai office in 2020

Latin America

With a focus on Brazil and Colombia



Endari® Commercialization

\$30K annual wholesale acquisition cost per adult patient

Target

SCD Specialized:

- Hematologists
- Physicians
- Treatment centers

Support

Involvement with local and national SCD foundations

Excellent payer coverage

- Managed Medicaid (primary payer)
- Children's Health Insurance Plan (low-income support)
- Commercial Insurance
- Medicare

Patient assistance programs

Expand

Network of over 600 pharmacies and growing

Big 3 distributors: AmerisourceBergen, Cardinal and McKesson

RXs filled in 44 states, Puerto Rico and Washington, D.C.

Contracted with pharmacy benefit managers

Additional sales opportunities: group purchasing organizations, specialty pharmacies



Global Strategy

Current Approvals

United States FDA
Israeli Ministry of Health
United Arab Emirates

Submitted

Kingdom of Saudi Arabia Kuwait Bahrain

In process

Gulf Cooperation Council (GCC) Countries Early Access program in the U.K., France, and Turkey

SCD affects an estimated **20M - 25M** patients worldwide, predominately in Africa, the Middle East, India, South America, and Mediterranean regions



Growth Opportunities

L-GLUTAMINE

Ongoing research in new applications

Diverticulosis

Type 2 Diabetes:
Phase 1 — trial using Endari®

Sickle Cell Disease

Burn Injuries:

Phase 3 — study product provided by Emmaus

Pancreatic Cancer:

Phase 1 — study product provided by Emmaus

IRAK4 Inhibitor Anti-Cancer Drug

- For solid cancers, blood-cancers, and lymphoma
- Partnership with Kainos Medicine, Inc.
- **Emmaus responsibilities:** investigation and proof of target disease selection, efficacy, and safety
- Exclusive license in the U.S., U.K. and E.U. in cancer indications



Growth Opportunities

Telehealth

100,000 sickle cell patients in the US

25,000 patients are currently accessible through regular channels

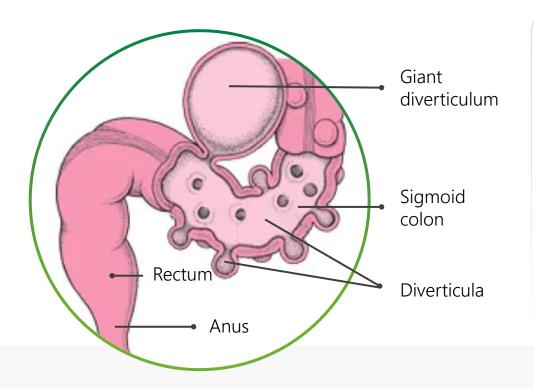
75,000 can be potentially accessed through telehealth

Advantages

- Endari does not require bloodwork in order to be prescribed.
- Endari can be delivered directly to patients' homes
- Same-day physician authorization and prescription
- Endari gets shipped within 3 business days.



Diverticulosis is the formation of balloon-like sacs (diverticula) in the large intestine



In the U.S., this affects an estimated

40% of 60-year-olds¹

70% of 80-year-olds

of whom 10% - 20% will develop into diverticulitis, resulting in abdominal pain, nausea, vomiting, constipation, diarrhea, fever, and leukocytosis

L-glutamine

May rejuvenate the mucosa membrane of intestine Supports muscle cells, including those surrounding the intestine



Preventing and reducing diverticula formation



Development of a diverticulosis treatment is an exciting opportunity





\$8B-\$20B U.S. market

\$14B-\$35B EU market



Internationally approved patents

U.S., EU, Australia, China, Russia, Japan, South Korea, Mexico, Indonesia, and India



Promising early results

Two initial patients showed 100% and 50% reductions in number of diverticula over 6 months



Emmaus continues to expand and explore opportunities to transform lives

Initial focus and success on rare and orphan diseases with unmet needs.

We are now extending our efforts to include conditions and diseases affecting larger populations, also with unmet needs.

Xyndari launch Cell Sheets -For Europe and Commercial Commercial Regenerative Latin America launch of launch of Endari® Endari® for Medicine Endari® in U.S. Phase 1 study Diverticulosis (CAOMECS) in MENA Region of ELS005 2018 2022 2023 2024/25 2026



EJ Holdings, Inc.





Ube, Yamaguchi Prefecture, Japan

Product: Prescription Grade L-Glutamine (PGLG)

Area: 95.1 acers

Purpose: Additional API cGMP facility to meet the captive source of API for Endari® and product candidates

Capability:

Fermentation process Crude purification process

L-Glutamine manufacturing passages:

Warehouse (raw materials) Production Warehouse (products)

Production capability: Projected launch year:

2,000 tons/yr 2023



EJ Holdings, Inc.

Date of acquisition of the manufacturing plant:

Dec. 25, 2019

Purchase price:

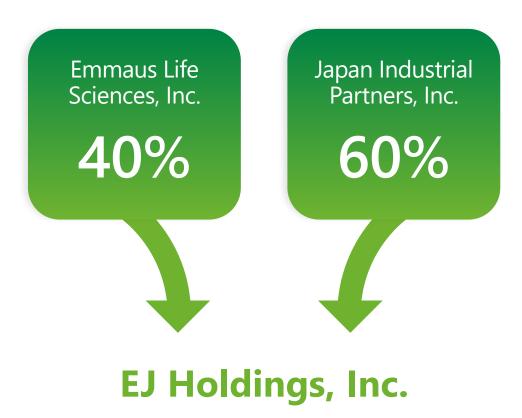
JPY 1,100M (~USD 10.4M)

40% interest accounted for as a Variable Interest Entity (VIE)

Fair Market Value (Dec. 2019):

USD 53.5M (Appraisal by Marshall and Stevens)

Ownership:







Commercial stage company marketing Endari®
– a safe and efficacious therapy for sickle cell disease



Targeting large addressable markets in underserved patient populations





Experiencing year-over-year revenue growth



Clinical pipeline with multiple shots on goal



Experienced leadership team to execute corporate strategy



Securing captive source of API for Endari® and product candidates

Significant returns on funds invested











Developed Endari® through Phase 3 and FDA approval

Launched and commercialized Endari®

Built and deployed an internal sales team

Created a pipeline with multiple product candidates





Company:

Emmaus Life Sciences, Inc.

Willis Lee

Chief Operating Officer (310) 214-0065 wlee@emmauslifesciences.com

Investor Relations:

Rx Communications Group

Michael Miller

(917)-633-6086 mmiller@rxir.com

