

Novel Treatments for Kidney Disease

Company Presentation April 2025

Forward Looking Statements



This presentation contains certain "forward-looking" statements that are made pursuant to the safe harbor provisions of the Private Securities Litigation Reform Act of 1995. All statements, other than statements of historical or present facts, are forward-looking statements, including statements regarding our future financial condition, future revenues, projected costs, prospects, business strategy, and plans and objectives of management for future operations, including our plans for clinical trials and plans to submit for regulatory filings. In some cases, you can identify forward-looking statements by terminology such as "believe," "will," "may," "might," "estimate," "continue," "anticipate," "intend," "target," "project," "model," "should," "should," "plan," "expect," "could," "seck," "agal," "potential," or the negative of these terms or other similar terms or expressions that concern our expectations, strategy, plans, or intentions. These statements are based on our intentions. beliefs, projections, outlook, analyses, or current expectations using currently available information, and are not guarantees of future performance, and involve certain risks and uncertainties. Although we believe that the expectations reflected in these forward-looking statements are reasonable, we cannot assure you that our expectations will prove to be correct. Therefore, actual outcomes and results could materially differ from what is expressed, implied, or forecasted in these statements. Any differences could be caused by a number of factors including but not limited to: our expectations regarding the timing, costs, conduct, and outcome of our clinical trials, including statements regarding the timing of the initiation and availability of data from such trials; the timing and likelihood of regulatory filings and approvals for our product candidates; whether regulatory authorities determine that additional trials or data are necessary in order to obtain approval; our ability to obtain funding for our operations, including funding necessary to complete further development and commercialization of our product candidates; our plans to research, develop, and commercialize our product candidates; the commercialization of our product candidates, if approved; the rate and degree of market acceptance of our product candidates; our expectations regarding the potential market size and the size of the patient populations for our product candidates, if approved for commercial use, and the potential market opportunities for commercializing our product candidates; the success of competing therapies that are or may become available; our expectations regarding our ability to obtain and maintain intellectual property protection for our product candidates; the ability to license additional intellectual property relating to our product candidates and to comply with our existing license agreements; our ability to maintain and establish relationships with third parties, such as contract research organizations, suppliers, and distributors; our ability to maintain and establish collaborators with development, regulatory, and commercialization expertise; our ability to attract and retain key scientific or management personnel; our ability to grow our organization and increase the size of our facilities to meet our anticipated growth; the accuracy of our estimates regarding expenses, future revenue, capital requirements, and needs for additional financing; our expectations related to the use of our available cash; our ability to develop, acquire, and advance product candidates into, and successfully complete, clinical trials; the initiation, timing, progress, and results of future preclinical studies and developments and projections relating to our competitors and our industry

Additional factors that could cause actual results to differ materially from our expectations can be found in our Securities and Exchange Commission filings. Moreover, we operate in a very competitive and rapidly changing environment. New risk factors emerge from time to time, and it is not possible for our management to predict all risk factors, nor can we assess the effects of all factors on our business or the extent to which any factor, or combination of factors, may cause actual results to differ materially from those contained in, or implied by, any forward-looking statements. All forward-looking statements included in this presentation are expressly qualified in their entirety by these cautionary statements. The forward-looking statements speak only as of the date made and, other than as required by law, we undertake no obligation to publicly update or revise any forward-looking statements, whether as a result of new information, future events, or otherwise.

The company obtained the industry, market and competitive position data used throughout this presentation from its own internal estimates and research, as well as from industry and general publications, and research, surveys and studies conducted by third parties. Internal estimates are derived from publicly available information released by industry analysts and third-party sources, the company's internal research and our industry experience, and are based on assumptions made by the company based on such data and its knowledge of the industry and market, which the company believes to be reasonable. In addition, while the company believes the industry, market and competitive position data included in this presentation is reliable and based on reasonable assumptions, the company has not independently verified any third-party information, and all such data involve risks and uncertainties and are subject to change based on various factors.

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Key Investment Highlights

Corporate Overview

- Diversified portfolio focused on kidney disease
 - Lead asset OLC for the treatment of hyperphosphatemia in chronic kidney disease patients on dialysis
 UN-494 in development for the treatment of acute kidney injury
- Strong IP Protection
- Seasoned management team with track record of developing and commercializing kidney drugs

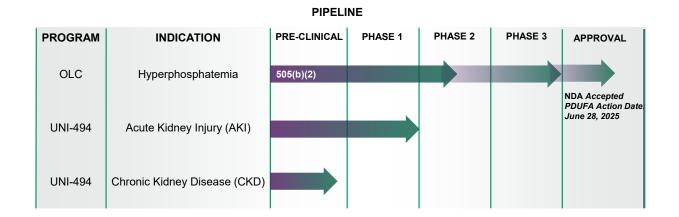
OLC Opportunity

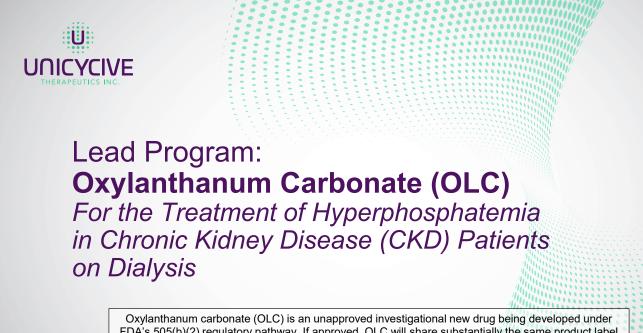
- Hyperphosphatemia represents >\$1 billion US market opportunity
- OLC NDA under review with June 28, 2025 PDUFA date
- De-risked development via 505(b)(2) regulatory pathway

OLC Launch Readiness

- Recent developments in reimbursement landscape expand OLC market opportunity
- Executing on OLC launch priorities
 - Awareness and market shaping
 - Facilitating reimbursement
 - Commercial operations & logistics

Unicycive is Focused on Developing New Treatment Options for Kidney Diseases

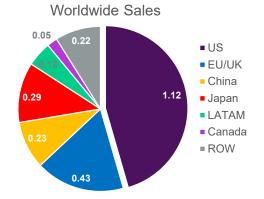




FDA's 505(b)(2) regulatory pathway. If approved, OLC will share substantially the same product label and prescribing information as the reference-listed drug (RLD) Fosrenol (lanthanum carbonate) with the exception that OLC tablets are smaller in size and swallowed whole with water and not chewed.

Hyperphosphatemia is a Large and Growing Market Opportunity





- \$2.5 Billion in 2021 (5.3% CAGR)
- US market over \$1 billion
- Unicycive owns worldwide rights

Source: Fortune Business Insights™, *Hyperphosphatemia Treatment Market, 2021-2028*

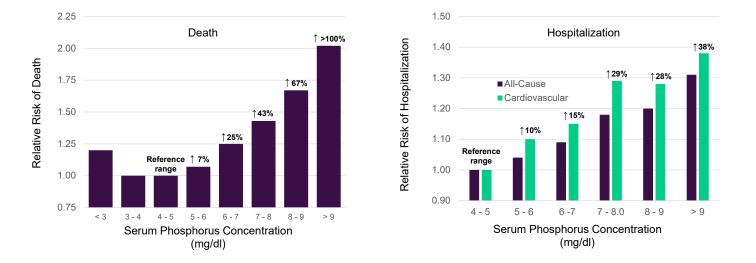
8 out of 10 US Dialysis Patients Receive Phosphate Binders for Hyperphosphatemia



- >500,000 US dialysis patients in 2021 (3% growth rate)
- >400,000 (80%) receiving phosphate binders for hyperphosphatemia

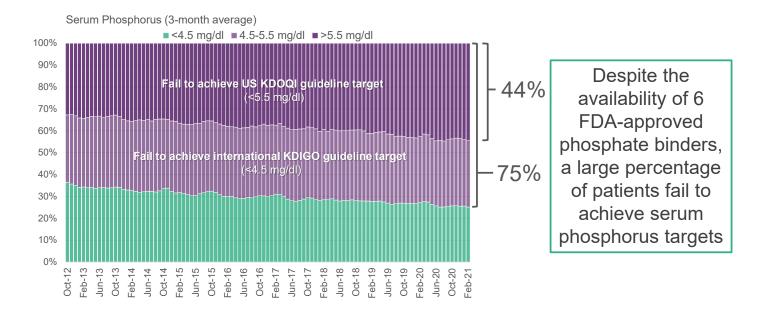
Source: United States Renal Data System (USRDS) 2023 Annual Data Report, DOPPS Practice Monitor, 2021

Uncontrolled Hyperphosphatemia is Strongly Associated with Increased Death and Hospitalization



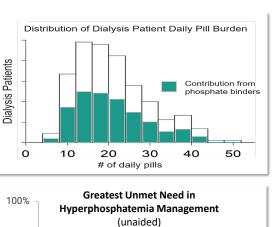
Source: Mineral Metabolism, Mortality, and Morbidity in Maintenance Hemodialysis | Geoffrey A. Block, Preston S. Klassen, J. Michael Lazarus, Norma Ofsthun, Edmund G. Lowrie and Glenn M. Chertow | JASN August 2004, 15 (8) 2208-2218; DOI: https://doi.org/10.1097/01.ASN.0000133041.27682.A2

The Unmet Need in Hyperphosphatemia



Source: US-DOPPS Practice Monitor, May 2021; http://www.dopps.org/DPM

Addressing the Problem of Excessive Pill Burden



33%

Greater

Efficacy

15%

Fewer

Side Effects

7%

New MOA

60%

Lower

Pill Burden

N = 100 US Nephrologists

0%

Daily pill burden for maintenance dialysis patients is among the highest across various chronic disease states including HIV/AIDS, diabetes mellitus, and congestive heart failure

- **19** pills per day (median)
- 49% of pill burden from phosphate binders
- Higher pill burden is independently associated with lower quality of life scores (HR-QOL)
- 62% of patients are non-adherent (self-reported)
- Nephrologists report that lower pill burden is the greatest unmet need

"Ideally, we would have phosphate binders with high phosphatebinding capacity (translating into low pill burden and good patient adherence)...we still do not have such a phosphate binder." Juergen Floege, MD, Nephrologist, Executive Committee Member, KDIGO CKD-MBD Guidelines

Sources: Chiu YW, et al. Clin J Am Soc Nephrol. 2009, Primary Market Research: OLC Conjoint Study, March 2022, Floege, J Nephrol. 2020 Jun;33(3):497-508

Oxylanthanum Carbonate (OLC) Product Profile



Overview

- Potential best-in-class product being developed under FDA's 505(b)(2) regulatory pathway for the treatment of hyperphosphatemia
- OLC advantages:
 - (1) Potency: shares high phosphate binding capacity of lanthanum
 - (2) Pill Burden: smaller and fewer pills
 - (3) Palatability: swallowed whole with water and not chewed

Proprietary Nanoparticle Technology

- UNICYCIVE has harnessed the phosphate binding potency of lanthanum to reduce the number and size of pills that patients must take to control hyperphosphatemia
 - Enhanced surface area
 - Lower molecular weight
- Enables smaller pills
- Pills are swallowed (not chewed)
- Immediate release tablets

Strong Global Intellectual Property

Recommended Daily Starting Dose for Phosphate Binders





* Expected OLC recommended daily starting dose, if approved

Source: FDA approved package inserts, Pill volumes: Data on file, Unicycive Therapeutics, Product images are proportionally sized. Renvela® is a registered trademark of Sanofi., Auryxia® is a registered trademark of Akebia Therapeutics. Fosrenol® is a trademark of Takeda Pharmaceutical Company Limited, Phoslo® and Velphoro® are registered trademarks of Vifor Fresenius



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OLC Clinical Data



OLC Pivotal Study Safety & Tolerability of OLC in the Pivotal Study



Study objective to evaluate the safety & tolerability of clinically effective doses (serum phosphate \leq 5.5 mg/dL) of OLC in CKD patients on dialysis

Treatment-Related Adverse Events in ≥5% Patients

Adverse Event	(N=86) n (%)			
Diarrhea	8 (9%)ª			
Vomiting	5 (6%)ª			

a) Two patients experienced both diarrhea and vomiting

Safety

- No treatment-related Serious Adverse Events (SAEs)
- 6 patients had non-treatment-related SAEs
- Most AEs were mild-to-moderate; only 2 patients with severe treatment-related AEs

Tolerability

• Total discontinuation due to AEs was 6% (5/86)

We believe that these results for OLC compare favorably to historical clinical experience with other phosphate lowering therapies and will support the demonstration of similarity to Fosrenol with regard to safety and tolerability required for our 505(b)(2) NDA filing

Adverse Event (AE) Profiles of Phosphate Lowering Therapies from FDA-Approved Product Labels

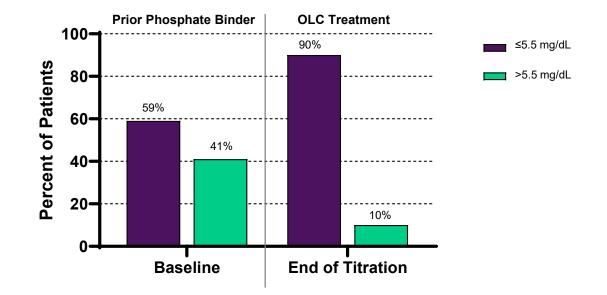


Fosrenol Renvela			PhosLo		Velphoro		Auryxia		Xphozah	
lanthanum carbonate sevelamer carbonate			calcium acetate		sucroferric oxyhydroxide		ferric citrate		tenapanor	
Nausea 11% Vomiting 9% Abdominal pain 5%	Flatulence 8	% Nausea % Vomiting	13-16% 4-6% 2-4%	Discolored feces	24% 16% 10%	Diarrhea Discolored feces Nausea Constipation Vomiting Cough	21% 19% 11% 8% 7% 6%	Diarrhea	43-53%	

Disclaimer: FDA cautions that because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in clinical trials of a drug cannot to directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in practice.

We believe that the AE profile observed in the OLC pivotal trial compares favorably with the historical clinical experience with Fosrenol and other phosphate binders and supports a similar safety profile required for our 505(b)(2) NDA filing

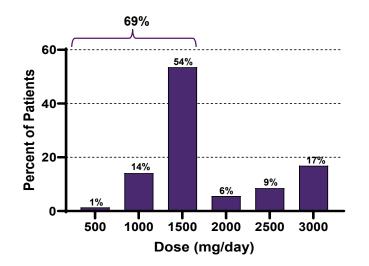




Baseline - Serum phosphate levels at screening before washout

End of Titration - includes last serum phosphate levels from all patients including those that discontinued during titration 77/86 (90%) / 9/86 (10%)

OLC Pivotal Study **Phosphate Control and Effective Dose in Evaluable Population (n=71)**



Of the 71 evaluable patients, 69% achieved a target serum phosphate level of ≤5.5 mg/dL at an OLC dose of ≤1500 mg/day or less

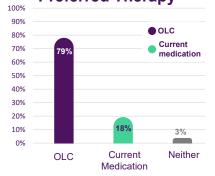


Patients Preferred OLC Over Their Prior Phosphate Binder Therapy in Pivotal Clinical Trial^{*†}



79% of patients preferred OLC over their current medication

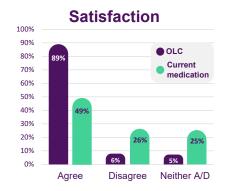
Preferred Therapy



98% of patients said OLC was easy to take vs 55% with current medication



89% of patients were satisfied with OLC vs 49% with current medication



Question: Based on your experience in this clinical trial, do you prefer your current phosphate binder or OLC?

Question: Oxylanthanum carbonate is easy to take? **Question:** My current phosphate binder medication is easy to take? **Question:** I am satisfied with oxylanthanum carbonate (OLC)? **Question:** I am satisfied with my current medication?

*Current medication in the study population before OLC was 52% Renvela (sevelamer carbonate), 19% Phoslo (calcium acetate), 15% Auryxia (ferric citrate), 13% Velphoro (sucroferric oxyhydroxide), and 1% Xphozah (tenapanor). | [†]These data are from a prespecified exploratory analysis of the OLC Pivotal Study.

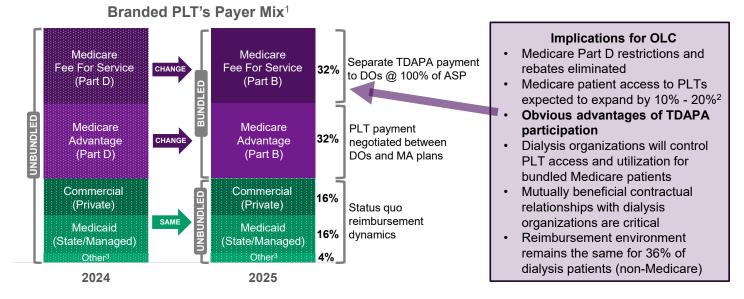


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OLC Commercial Strategy



Bundled Medicare Reimbursement Question Resolved For Phosphate Lowering Therapies (PLTs)



Sources: ¹Custom audit of branded phosphate binder 100% Medicare FFS claims and MORE (Medical Outcomes Research for Effectiveness and Economics) Registry, 2020/21 ² 2023 ESRD PPS Final Rule (federalregister.gov/d/2022-23778), ³ VA, military, etc.

Executing on OLC Launch Priorities



Awareness & Market Shaping

- Scientific Communications
 - 5 peer-reviewed publications
 - 17 posters/presentations
- Medical Congresses
 - ASN Kidney Week
 - NKF
 - ERA-EDTA
- KOL Engagement
 - Advisory boards
- Patient Advocacy
 - NKF
 - AKF
 - AAKP

Brand Strategy

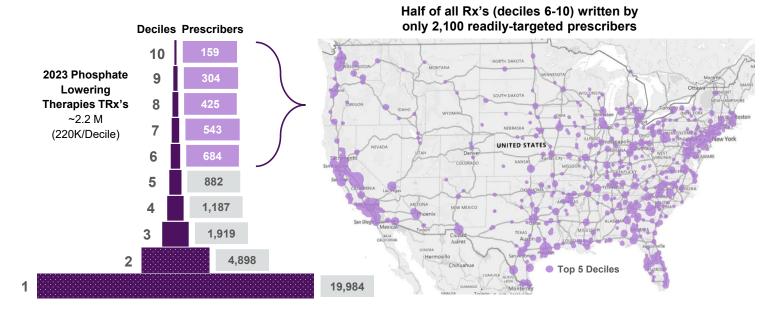
- Market Analytics
- Conjoint Study
- ATU pre-launch baseline
- Pricing study
- Revenue forecasting
- Segmentation
- Branding
 - Proprietary name
 - Identity (logo, etc.)
- Positioning and message narrative
 - development and testing
- Competitor landscape and OLC advantages

Commercial Operations & Logistics

- 3PL selection
- Market access and distribution and channel strategy and implementation
- Reimbursement hub design and implementation
- Patient services
 - Copay assistance
 - Free goods program
- CRM and data warehouse
 buildout
- · Salesforce sizing

3PL: third party logistics provider; ATU: attitudes to trial and utilization

Concentrated Prescriber Universe Can Be Addressed with Small, Targeted Salesforce



Source: IQVIA NPA and Xponent Data (captures retail and mail order Rxs but does not include Rxs from certain specialty pharmacies)

Oxylanthanum Carbonate (OLC) IP Status

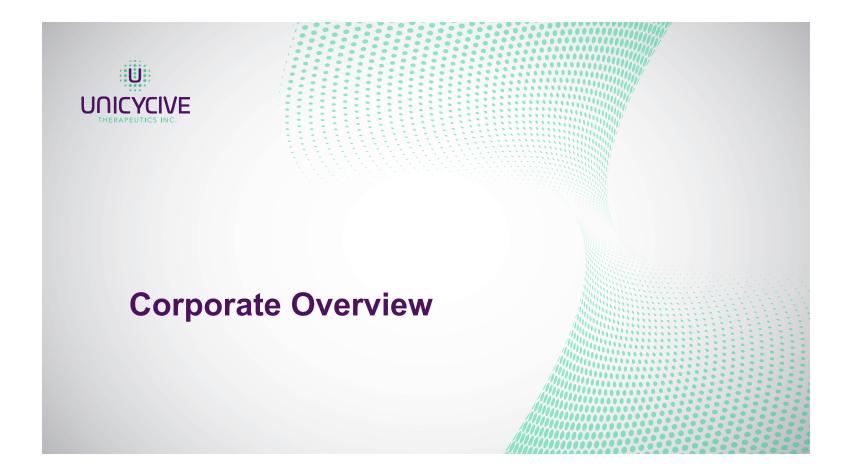
Strong Global Intellectual Property

A family of patents (incl. composition of matter) were filed in 2011 for the U.S with exclusivity until 2031 Corresponding patents granted in Canada, Europe, Japan, China, Australia, and other countries with expiry in 2031

Potential patent term extension through 2035

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Seasoned Management Team With Winning Track Record in Hyperphosphatemia Market







John Townsend, CPA Chief Financial Officer Guardion Health Sciences, Cytori Therapeutics



Management

Doug Jermasek, MBA EVP, Corporate Strategy Genzyme-Sanofi, Akebia, Keryx, Pfizer, Abbott

Pramod Gupta, PhD EVP, Pharmaceutical & Business Operations Spectrum, B&L, Abbott



Guru Reddy, PhD VP, Preclinical R&D Spectrum, Ciphergen, Pangene, Yale

- Led Genzyme/Sanofi global renal business that grew Renvela (sevelamer) to a multi-billion-dollar franchise
- Led commercial team at Keryx that doubled Auryxia year/year revenues for 4 consecutive years
- Led preclinical/clinical and manufacturing development of oxylanthanum carbonate at Spectrum
- Responsible for the successful filing of multiple NDAs

Unicycive Directors & Advisors





Gaurav Aggarwal, MD Vivo Capital



Sara Kenkare-Mitra, PhD President & Head of R&D Alector



Sandeep "Steve" Laumas, MD Goldman Sachs, North Sound Capital

Scientific Advisory Board



Shalabh Gupta, MD NYU Medical Center, Genentech, UBS, Rodman & Renshaw



Ravi Mehta, MD Prof Emeritus of Medicine, UCSD



Pablo Pergola, MD, PhD Director, Clinical Advancement Center, PLLC, a wholly-owned subsidiary of Renal Associates



Glenn Chertow, MD, MPH Chief, Division of Nephrology at Stanford University School of Medicine



Myles Wolf, MD Chair of Medicine at Weill Cornell Medicine and Physician-in-Chief at New York Presbyterian/Weill Cornel Medical Center

Financial Overview



Cash and Share Counts	
Cash and Cash Equivalents	\$26.1 million (as of Dec 31, 2024)
Market Cap	\$73.5 million (as of March 28, 2025)
Shares of Common Stock Outstanding	119.7 million common shares
Additional Preferred (if converted to common)	14.2 million shares
Fully Diluted Shares (if preferred converted to common)	133.9 million shares
Fully Diluted Market Cap	\$82.2 million



Note: Share counts as of March 28, 2025

Expected Catalysts in 2025 and Beyond

OLC for Hyperphosphatemia

- ✓ NDA Submission (August '24)
- ✓ NDA Acceptance
- ✓ Buildout of commercial infrastructure
- DUFA Date for FDA Approval (June 28, 2025)
- □ Commercial Launch (H2 '25)
- TDAPA Designation

UNI-494 for Acute Kidney Injury

- ✓ Orphan Drug Designation granted for the prevention of Delayed Graft Function in kidney transplant patients
- ✓ Method of Use patent granted by USPTO
- ✓ Report Phase 1 study results (Q4 '24)
- ✓ Request FDA Meeting by YE '24



Investor Relations

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UNICYCIVE THERAPEUTICS INC.

Potential Commercial Funding

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Additional \$100 Million in committed capital in three tranches of warrants to support commercialization

Tranche & Amount	Trigger	Exercise Price	Conversion into Equivalent Common Stock	
Tranche A: \$25.8 MM	FDA Approval	\$0.54	47.9 million	
Tranche B: \$25.7 MM	TDAPA Designation	\$0.59	43.5 million	
Tranche C : \$51.5 MM	Four quarters of OLC Sales	\$0.74	69.6 million	
Cumulative Warrants (All Tr	161 million			
Potential Future Funding	\$103 MM			