

Novel Treatments for Kidney Disease

Company Presentation

November 2024

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," "would," "plan," "expect," "predict," "could," "seek," "goal," "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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Investment Thesis

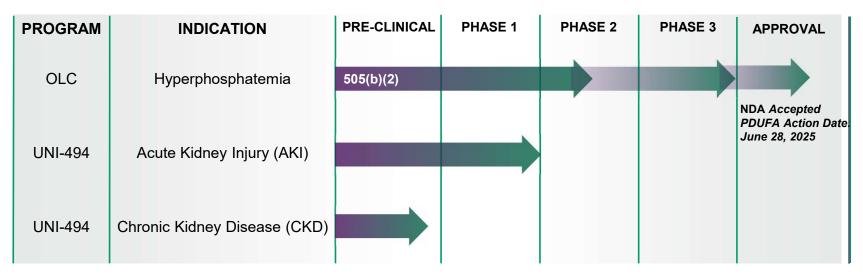


- Developing novel treatments for kidney diseases with a near-term commercial opportunity in a multibillion-dollar market
- New Drug Application (NDA) under FDA review targeting hyperphosphatemia in chronic kidney disease patients on dialysis
 - PDUFA target action date of June 28, 2025
 - Potential best-in-class product with de-risked path to approval and strong IP protection
- Seasoned management team with a winning track record of developing and commercializing kidney drugs
- Second pipeline program in clinical development for acute kidney injury with Orphan Drug Designation granted by the FDA

Unicycive is Focused on Developing New Treatment **Options for Kidney Diseases**



PIPELINE



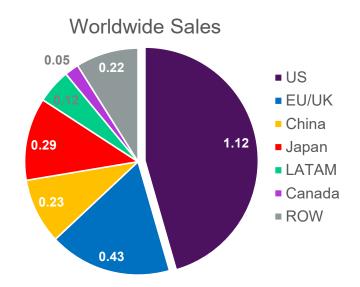


Lead Program: Oxylanthanum Carbonate (OLC) For the Treatment of Hyperphosphatemia in Chronic Kidney Disease (CKD) Patients on Dialysis

Oxylanthanum carbonate (OLC) is an unapproved investigational new drug being developed under 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 \$1billion
- Unicycive owns worldwide rights

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



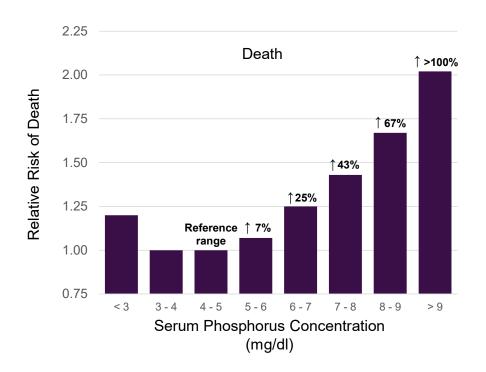
- >500,000 US dialysis patients in 2021 (3% growth rate)
- >400,000 (80%) receiving phosphate binders for hyperphosphatemia

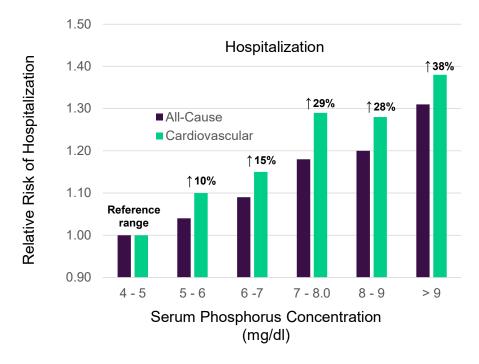
Source: Fortune Business Insights[™], *Hyperphosphatemia Treatment Market, 2021-2028*

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



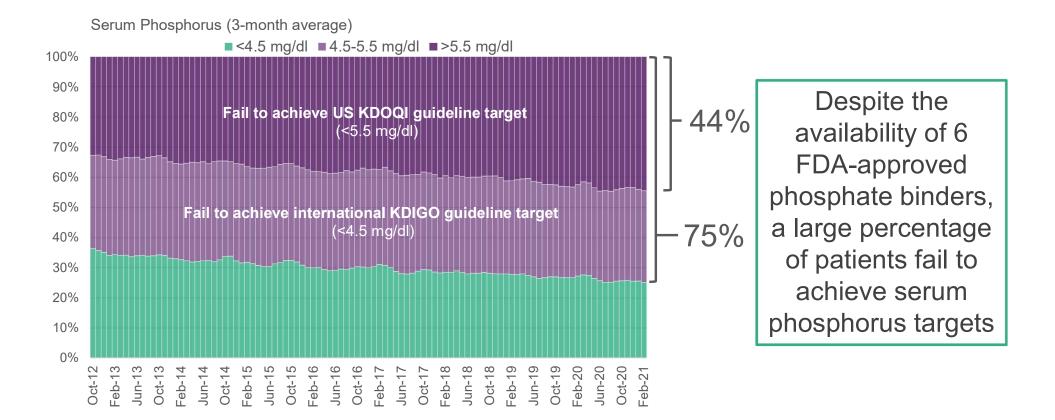




Source: Mineral Metabolism, Mortality, and Morbidity in Maintenance Hemodialysis | Geoffrey A. Block, Preston S. Klassen, J. Michael Lazarus, Norma Ofsthun, Edmund G. Lowrie and Glenn M. Chertow | JASN August 2004, 15 (8) 2208-2218; DOI: https://doi.org/10.1097/01.ASN.0000133041.27682.A2

The Unmet Need in Hyperphosphatemia

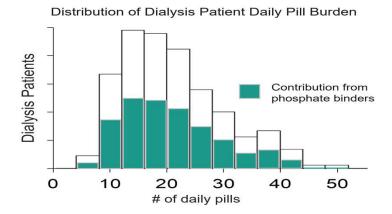


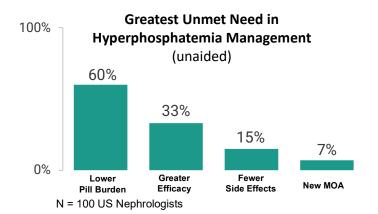


Source: US-DOPPS Practice Monitor, May 2021; http://www.dopps.org/DPM

Addressing the Problem of Excessive Pill Burden







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

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

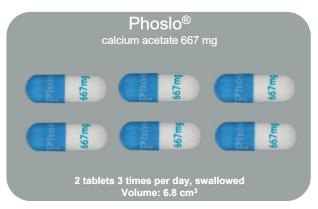
Strong Global Intellectual Property

Recommended Daily Starting Dose for Phosphate Binders















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

^{*} Expected OLC recommended daily starting dose, if approved

OLC Regulatory Strategy



505(b)(2) Requirement	Studies Conducted to Satisfy 505(b)(2) Requirement*				
Demonstrate similar Efficacy to reference drug (Fosrenol)	Bridge to Efficacy Completed 12/2022 OLC vs Fosrenol® Pharmacodynamic Bioequivalence Trial in Healthy Volunteers				
Demonstrate similar Safety / Tolerability to reference drug (Fosrenol)	Bridge to Safety/Tolerability Favorable Safety/Tolerability Profile Confirmed Completed 6/2024 Pivotal Clinical Tolerability/Exposure Trial in Dialysis Patients				

^{*} All study designs agreed upon with FDA

OLC Pivotal Study

Safety & Tolerability of OLC in the Pivotal Study



Study objective to evaluate the safety & tolerability of clinically effective doses (serum phosphate ≤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 lanthanum carbonate sevelamer carbon			PhosLo calcium acetate		Velphoro sucroferric oxyhydroxide		Auryxia ferric citrate		Xphozah tenapanor		
Nausea Vomiting Abdominal pain	11% 9% 5%	Vomiting Nausea Diarrhea Dyspepsia Abdominal pain Flatulence Constipation	22% 20% 19% 16% 9% 8% 8%	Hypercalcemia Nausea Vomiting	13-16% 4-6% 2-4%	Diarrhea Discolored feces Nausea	24% 16% 10%	Diarrhea Discolored feces Nausea Constipation Vomiting Cough	21% 19% 11% 8% 7% 6%	Diarrhea	43-53%

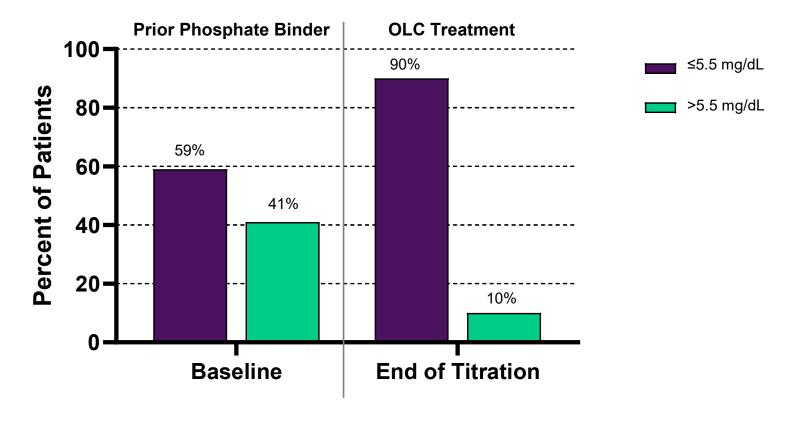
Disclaimer: FDA cautions that because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in clinical trials of a drug cannot to directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in practice.

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

OLC Pivotal Study

Serum Phosphate Control in Safety Population (N=86)



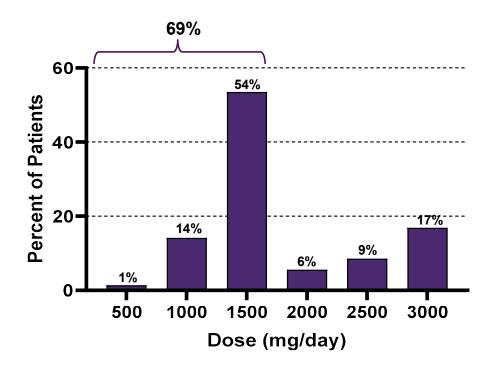


Baseline – Serum phosphate levels at screening before washout End of Titration – includes last serum phosphate levels from all patients including those that discontinued during titration 77/86 (90%) / 9/86 (10%)

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

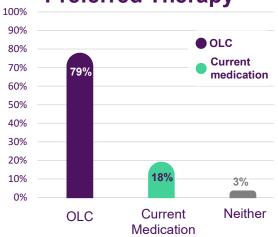


OLC Patient Preference, Accessibility, and Satisfaction vs. Current Medication*†



79% of patients preferred OLC over their current medication

Preferred Therapy



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

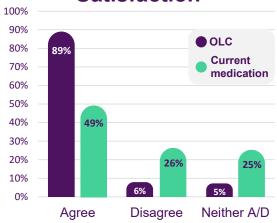
98% of patients said **OLC** was easy to take vs **55%** with current medication



Question: Oxylanthanum carbonate is easy to take? **Question:** My current phosphate binder medication is easy to take?

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





Question: I am satisfied with oxylanthanum carbonate

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.

OLC Commercial Strategy



Commercial planning underway to leverage potential large market opportunity

- Product positioning strategy and market shaping activities to support potential best-in-class value proposition
- Key Opinion Leader (KOL) engagement
- Distribution and channel strategy planning
- Deployment of purpose-built commercial model to maximize awareness, demand generation and market access for the launch of OLC
- Concentrated universe of phosphate binder prescribers allows for cost-efficient targeting with relatively small commercial footprint
- Expect to capitalize on CMS plan to expand patient access to phosphate binders in 2025
 - Minimum 2 years of separate Medicare Part B payment (Transitional Drug Add-On Payment Adjustment TDAPA) for new drugs at 100% of average selling price (ASP)

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



UNI-494: Mitochondrial-Targeted Therapy for Kidney Disease

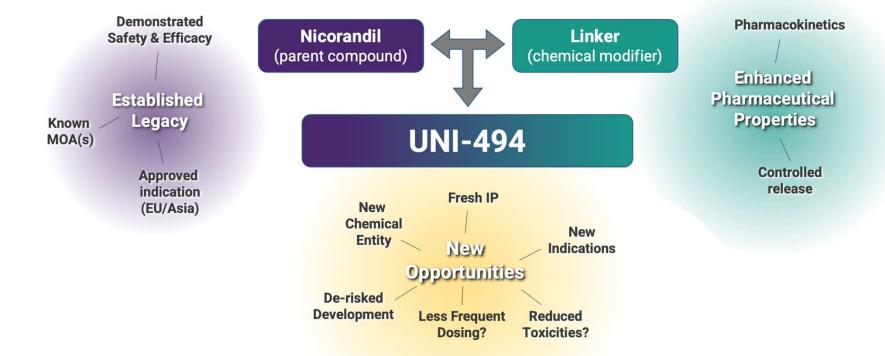
UNI-494 for Acute Kidney Injury



- UNI-494 is a nicotinamide ester derivative and a selective ATP-sensitive mitochondrial potassium channel activator with a novel mechanism of action
- Targeting Acute Kidney Injury (AKI)
- Phase 1 dose-ranging study complete
- Orphan drug designation granted by the US FDA for the prevention of DGF in kidney transplant patients
- Strong intellectual property protection with recent Method of Use patent valid till 2040

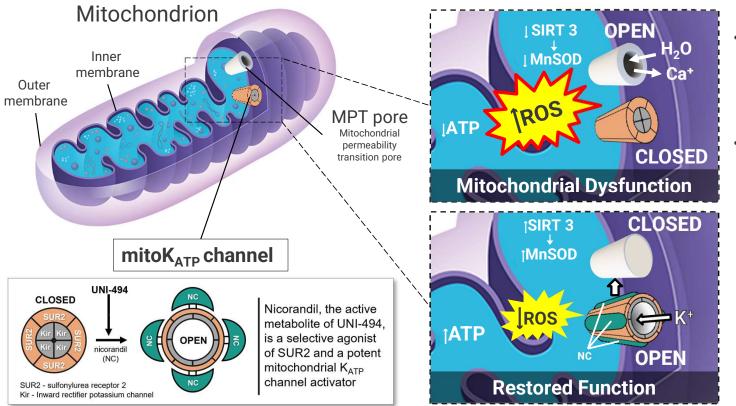
UNI-494 Profile





UNI-494 Restores Mitochondrial Function Mechanism of Action



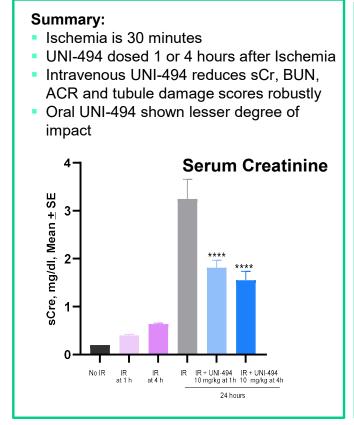


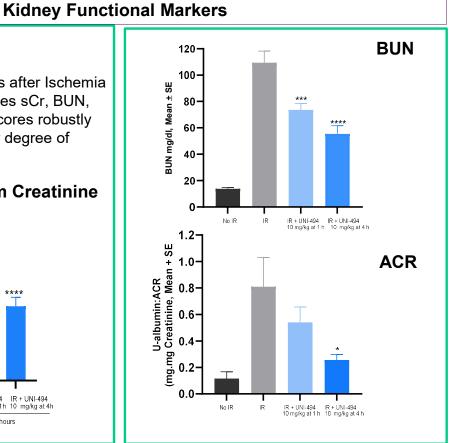
- A hallmark feature of mitochondrial dysfunction is chronic opening of MPT pores and overproduction of reactive oxygen species (ROS)
- Chronic opening of MPT pores leads to water and solute influx, swelling, injury and cell death
- UNI-494 is an ATP-sensitive K⁺ channel (KATP) activator
- Binds to SUR2 subunit of KATP channel that in turn leads to closing of MPT pores
- Down-regulates production of ROS

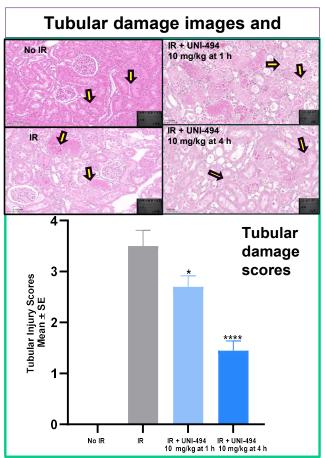
Source: Hazel H Szeto J Am Soc Nephrol 28: 2865, 2017; Shiraishi et al., 2014

Intravenous UNI-494 Ameliorates IRI in the Rat Kidney in a Therapeutic Mode









*p = 0.05; ***p = 0.001; ****p = 0.0001 when compared to No IR group; Arrows pointed to proximal tubule; Tubular Scores as per Jablonski et al 1983

UNI-494 Phase 1 Study in Healthy Volunteers Achieved Primary and Secondary Objectives



✓ Primary Objective: Safety

✓ Secondary Objective: Pharmacokinetics (PK)

Single Ascending Dose (SAD) Cohorts

Cohort	Sample Size	Dose (mg)	Route of Administration
SAD1	8	10	Oral, Fasted
SAD2	8	20	Oral, Fasted
SAD3	8	40	Oral, Fasted
SAD4	8	80	Oral, Fasted
SAD5	8	160	Oral, Fasted

Sample size randomized 6:2 UNI-494 to Placebo

Multiple Ascending Dose (MAD) Cohorts

Cohort	Sample Size	Dose (mg)	Dosing Schedule	Route of Administration
MAD1	9	80	BID for 5 days	Oral, Fasted
MAD2	10	40	BID for 5 days	Oral, Fasted

Sample size randomized 8:2 UNI-494 to Placebo

Safety & Pharmacokinetics of UNI-494 in Healthy Volunteers



Safety Data

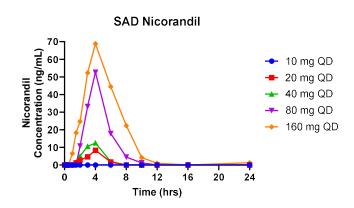
SAD Cohorts

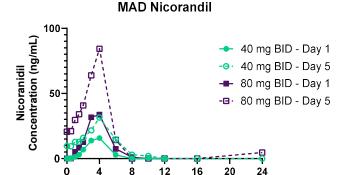
- Safe and well-tolerated as a single dose up to 160 mg
- No Serious Adverse Events (SAEs)
- Most common Adverse Event was headache
- No discontinuations due to adverse events

MAD Cohorts

- Safe and tolerated at 40 mg BID dose for 5 days
- No Serious Adverse Events
- No discontinuations due to SAEs
- Common adverse events: nausea, vomiting or low blood pressure reported
- Discontinuations due to AEs: 1@40mg BID;
 4@80 mg BID

Pharmacokinetic (PK) Data





Time (hrs)



Corporate Overview

Seasoned Management Team With Winning Track Record in Hyperphosphatemia Market



Management



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



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



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 mulit-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



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Gaurav Aggarwal, MD Vivo Capital



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



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



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

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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	\$32.3 million (as of September 30, 2024)
Market Cap	\$61.2 million (as of November 13, 2024)
Shares of Common Stock Outstanding	103.8 million common shares
Additional Preferred (if converted to common) Series A-2 Series B-2	17.2 million shares 7.4 million shares
Fully Diluted Shares (if preferred converted to common)	128.4 million shares
Fully Diluted Market Cap	\$75.8 million

Supported by Prominent Healthcare Investors























Note: Share counts as of November 13, 2024

Expected Catalysts in 2024 and Beyond



OLC for Hyperphosphatemia

- Successful bioequivalence study in healthy volunteers
- ✓ FDA alignment on regulatory path
- ✓ Completed enrollment in pivotal clinical trial
- ✓ NKF & ERA Presentations (Q2 '24)
- ✓ Pivotal trial readout (Q2 '24)
- ✓ NDA Submission (August '24)
- ✓ NDA Acceptance
- Buildout of commercial infrastructure
- PDUFA 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
- ✓ Oral and poster presentations at AKI and CRRT (Q1 '24)
- √ Oral presentations at ERA (Q2 '24)
- ✓ Method of Use patent granted by USPTO
- ✓ Phase 1 study enrollment complete (2024)
- ✓ Report Phase 1 study results (Q4 '24)
- □ Request FDA Meeting by YE '24
- Advance to Phase 2 POC Study (2025)

Investor Relations

T: (650) 900-5470 ir@unicycive.com



Potential Commercial Funding



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				