

Novel Treatments for Kidney Disease

Company Presentation
August 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," "yould," "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

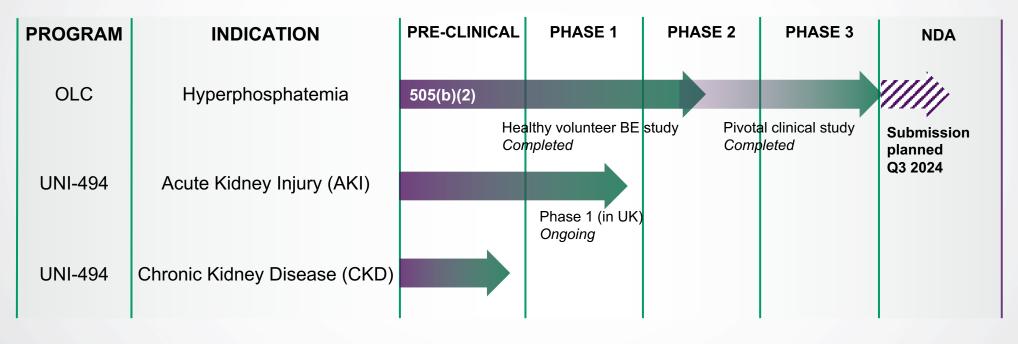


- Positive pivotal trial results for lead program in Q2 '24 with New Drug Application (NDA) filing expected mid-year 2024
 - Potential best-in-class product with de-risked path to approval and strong IP protection
- Near-term commercial opportunity in a multibillion-dollar, unsatisfied market with potential to improve treatment paradigm
- Seasoned management team with a winning track record in the market for 1st product
- Second pipeline program in clinical development for AKI with Orphan Drug Designation granted by the FDA

Unicycive is Focused on Developing NewTreatment Options for Kidney Diseases



PIPELINE



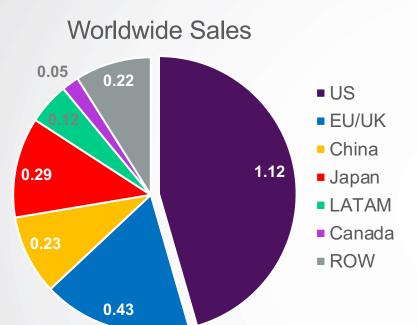


Lead Program: Oxylanthanum Carbonate (OLC) For the Treatment of Hyperphosphatemia in Chronic Kidney Disease (CKD) Patients on Dialysis

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

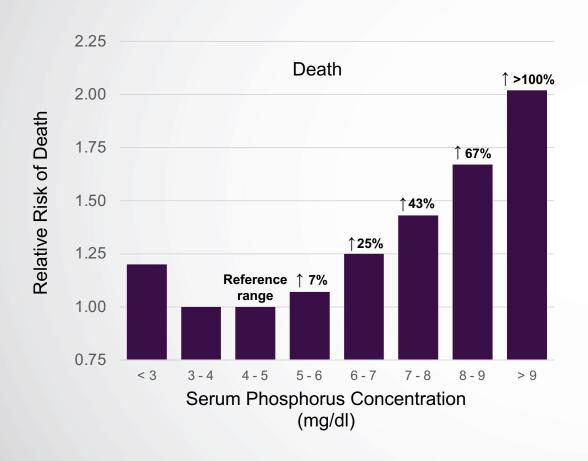
8 out of 10 US Dialysis Patients Receive Phosphate Binders for Hyperphosphatemia

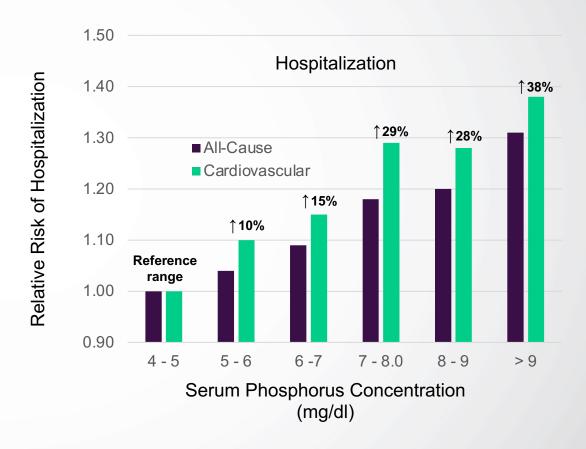


- >500,000 US dialysis patients in 2021 (3% growth rate)
- >400,000 (80%) receiving phosphate binders for hyperphosphatemia

Uncontrolled Hyperphosphatemia is Strongly Associated with Increased Death and Hospitalization

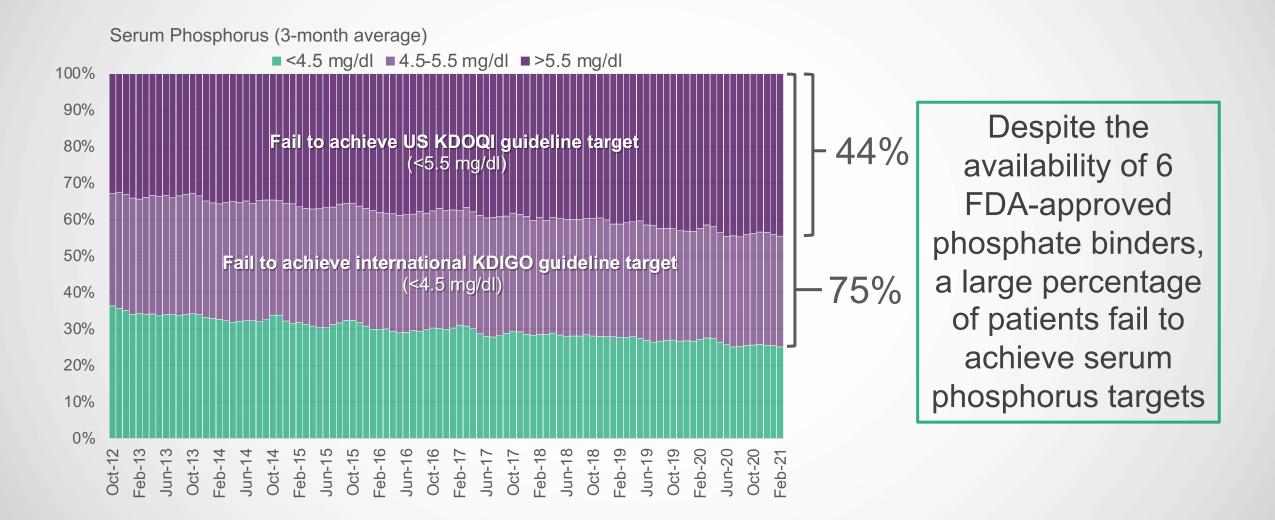






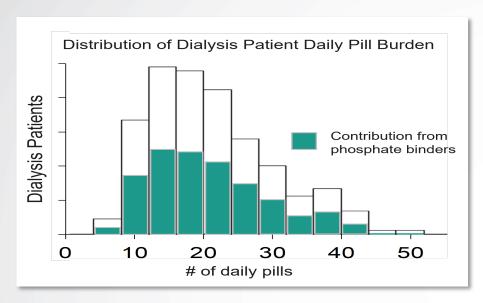
The Unmet Need in Hyperphosphatemia

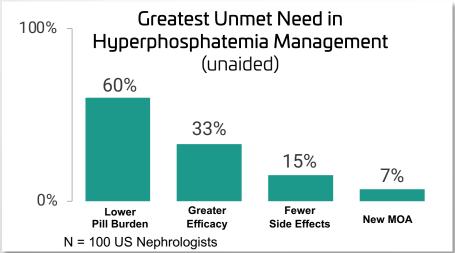




Addressing the Problem of Excessive Pill Burden







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

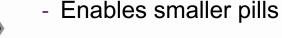


Overview

- 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
 - Immediate release tablets



- Pills are swallowed (not chewed)

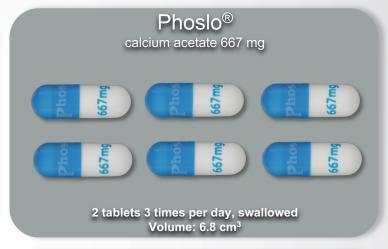
Strong Global Intellectual Property



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

OLC Regulatory Strategy



505(b)(2) Requirement	Studies Conducted*	
Demonstrate similar Efficacy to reference drug (Fosrenol)	Bridge to Efficacy Completed 12/2022 OLC vs Fosrenol® Pharmacodynamic Bioequivalence Confirmed OLC vs Fosrenol® Pharmacodynamic Bioequivalence Trial in Healthy Volunteers	
Demonstrate similar Safety / Tolerability to reference drug (Fosrenol)	Bridge to Safety/Tolerability Completed 6/2023 Bridge to Safety/Tolerability Completed 6/2024 Pivotal Clinical Tolerability/Exposure Trial in Dialysis Patients Patients Profile Confirmed	

^{*} All study designs agreed upon with FDA



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

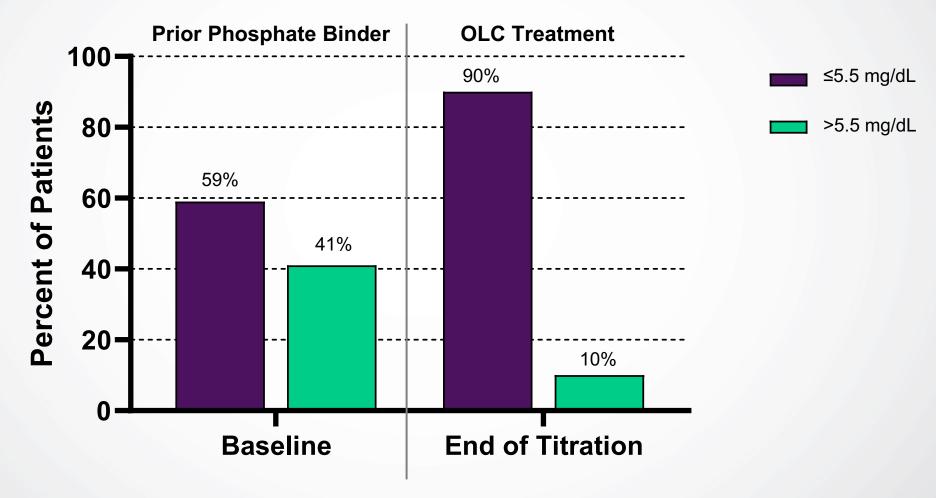
Tolerability

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

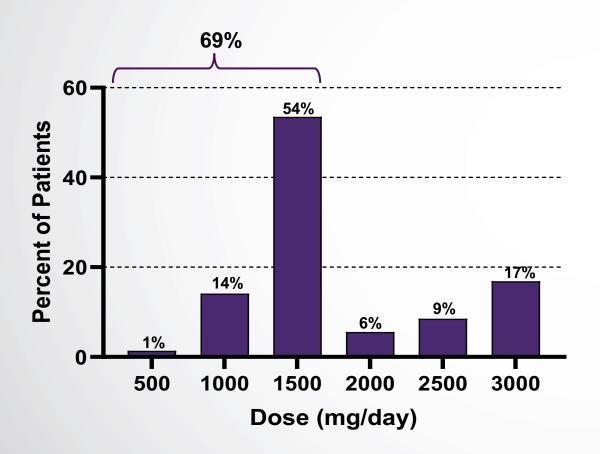


Serum Phosphate Control in Safety Population (N=86)





Phosphate Control and Effective Dose in Evaluable Population (n=71)

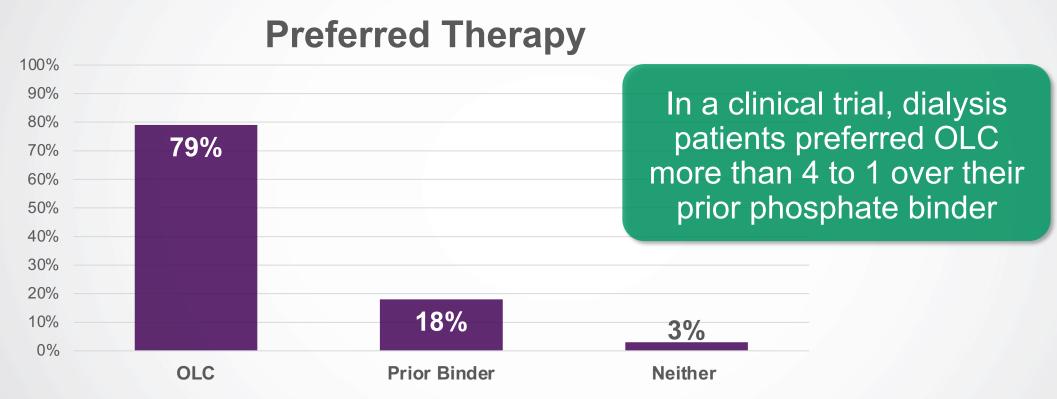


Of the 71 evaluable patients, 69% achieved a target serum phosphate level of ≤5.5 mg/dL at an OLC dose of ≤1500 mg/day or less





Patient Reported Outcomes* from Pivotal OLC Trial



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

^{*}Evaluated from a patient satisfaction questionnaire that was a pre-specified exploratory objective of the study





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

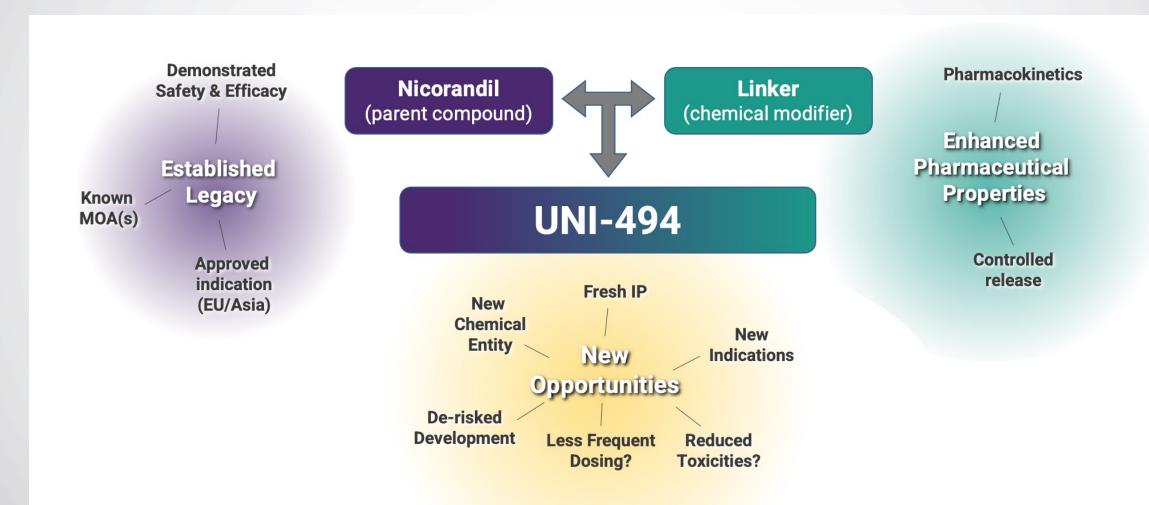
- A family of patents (including composition of matter) were filed in 2011 for the U.S with exclusivity until 2031
- Corresponding patents granted in Canada, Europe, Japan, China, Australia, and other countries also have 2031 expiry
- Potential patent term extension through 2035



UNI-494: Mitochondrial-Targeted Therapy for Kidney Disease

UNI-494 Profile

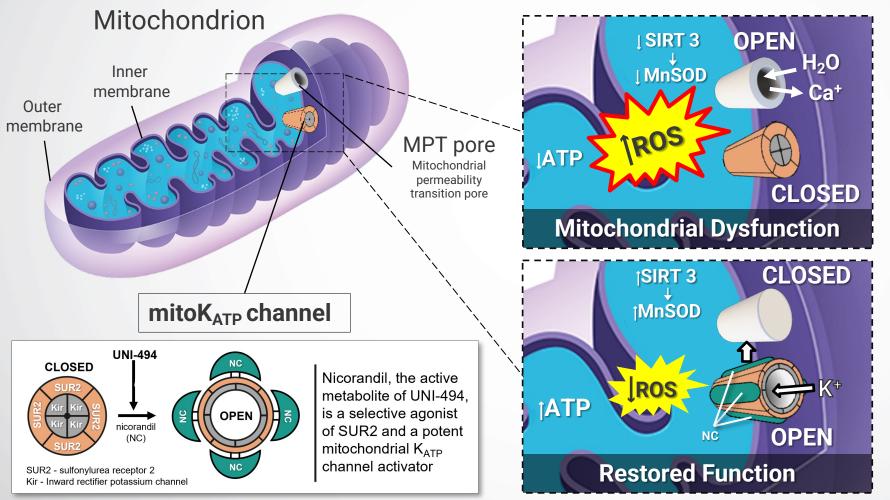




UNI-494 Restores Mitochondrial Function







- 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

Nicorandil: Clinical Evidence for Renoprotection



Clinical Settin	g Outcome	Ref	
Acute Kidney Injury			
Patients with poor kidney function scheduled for	 Dose: 0.096 mg/mL cont. infusion; 4 hours before and 24 hours after PCI Significant reduction in contrast-induced nephropathy (2.0% vs 10.7%, 	Nawa et al., 2015	
PCI (n=213) randomized to saline or nicorandil	 p <0.02) Reduction in contrast-induced increase in sCr and cystatin C 		
	 Control arm showed significant decline in eGFR (-4.2% vs +2.1%; p<0.001), @ 1 month 		
scheduled for PCI (n=128) randomized to placebo or nicorandil	 Dose: 10 mg/day; 30 mins before to 3 days after PCI 	Iranirad et al.,	
	 Significant reduction in contrast- induced nephropathy (4.7% vs 21.9%, p <0.008) 	2017	
	No change in eGFR from baseline, significant decline in eGFR in control arm)		

Clinical Setting	Outcome	Ref		
Chronic Kidney Disease				
Proteinuric patients (n=136) randomized to placebo, ISDN or nicorandil for 6 months	 Dose 15 mg/day for 6 months Significant (44%) reduction in proteinuria (p < 0.0001); Significant reduction in urinary endothelin-1 excretion 	Lee & Chang, 2009		
Hemodialysis patients (n=129) who underwent PCI and were randomized to chronic placebo or nicorandil	 Dose 15 mg/day Significant improvement in 3-year all-cause survival (79% vs 61%) (p= 0.01) Significant improvement in 3-year cardiac death-free survival (87% vs 71%) (p=0.009) 	Nishimura et al., 2009		

In a metanalysis of 7 Randomized Controlled Studies (N=1532), nicorandil decreased the incidence of CIN by 69% (OR: 0.31 95% CI: 0.20-0.46) Pranata et al, 2020.

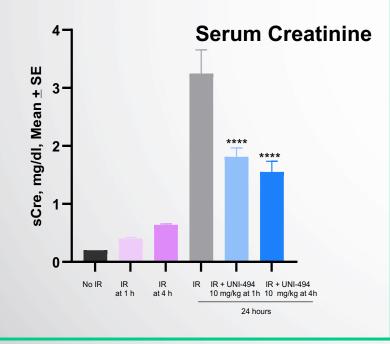
Intravenous UNI-494 Ameliorates IRI in the Rat Kidney in a Therapeutic Mode

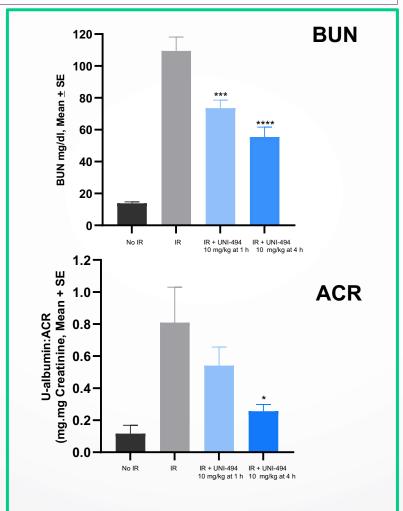


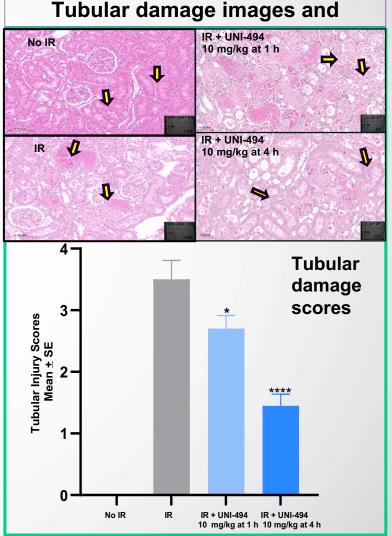
Kidney Functional Markers

Summary:

- Ischemia is 30 minutes
- UNI-494 dosed 1 or 4 hours after Ischemia
- Intravenous UNI-494 reduces sCr, BUN, ACR and tubule damage scores robustly
- Oral UNI-494 shown lesser degree of impact









UNI-494 Phase 1 Study Design & Status

Primary Objective: Safety

Secondary Objective: PK

Part 1-SAD

UNI-494 10 mg

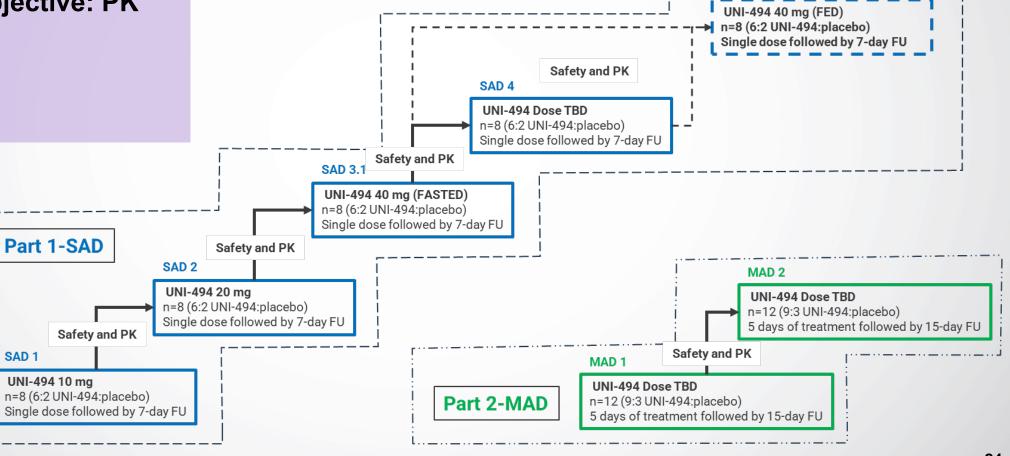
n=8 (6:2 UNI-494:placebo)

SAD 1

Safety and PK

Study Status:

- ✓ SAD Complete
- MAD Ongoing



SAD 3.2 (Optional)







UNI-494 is protected by a broad issued patent

- Patent granted in the U.S. and Europe with expiry 2032
- Patent pending in Japan and China
- Exclusively licensed to Unicycive

Recent Method of Use Patent Granted by USPTO

- Ensures IP Protection until 2040
- Secures protection of a method of treating a disease or a condition selected from acute kidney injury or contrast induced nephropathy

Additional patents filed for UNI-494 in the U.S. and globally

- International patent applications planned from this patent family
- Additional multiple patent applications being filed



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 \$ billion+ 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





Board of Directors



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Vivo Capital



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Alector



Sandeep "Steve" Laumas, MD
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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





Cash and Share Counts	
Cash and Cash Equivalents	\$48.9 million (as of March 31, 2024)
Market Cap	\$38 million (as of July 31, 2024)
Shares of Common Stock Outstanding	85.7 million common shares
Additional Preferred (if converted to common) Series A-2 Series B-1	34.8 million shares 7.9 million shares
Fully Diluted Shares (if preferred converted to common)	128.4 million shares
Fully Diluted Market Cap	\$52.6 million

Note: Share counts as of July 22, 2024





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 Filing (Q3 '24)
- NDA Acceptance & PDUFA date
- Buildout of commercial infrastructure
- □ FDA Approval (mid-year '25)
- TDAPA Designation

UNI-494 for Acute Kidney Injury

- ✓ Initiated Phase 1 clinical trial
- ✓ 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 completion (2024)
- ☐ Advance to Phase 2 POC Study (2024/2025)

Investor Relations

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