



UNICYCIVE

THERAPEUTICS INC.

NASDAQ: UNCY

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,” “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.

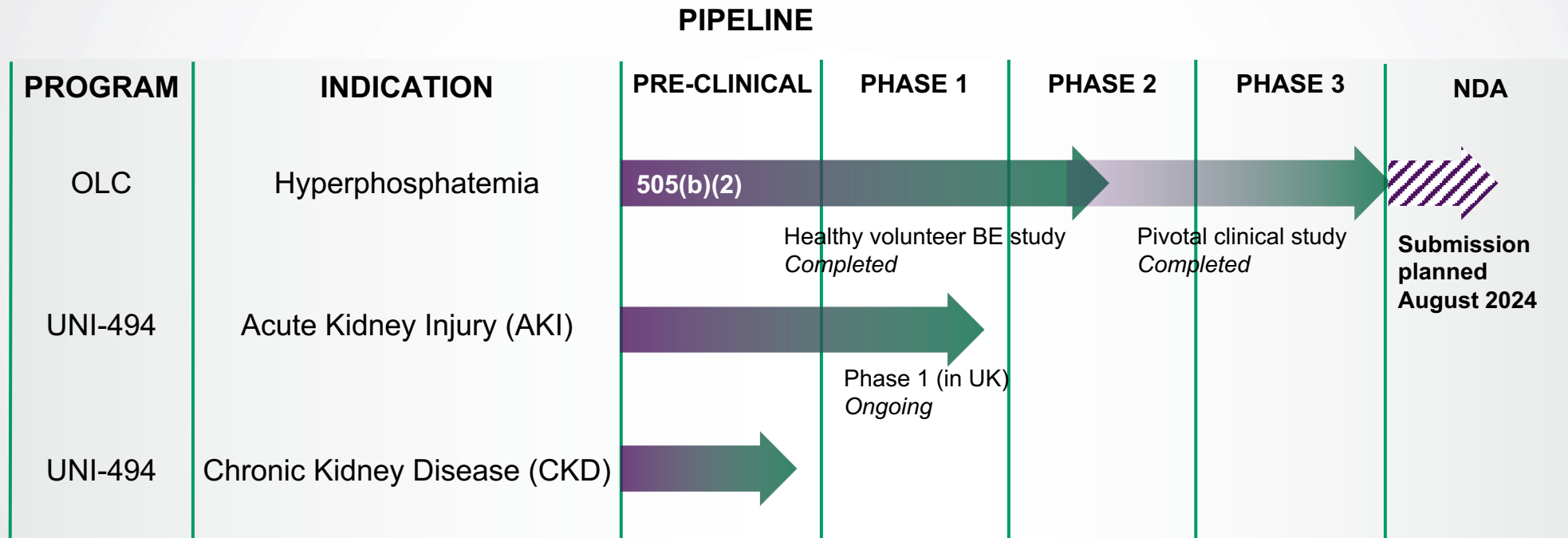
This presentation shall not constitute an offer to sell or the solicitation of an offer to buy, nor shall there be any sale of these securities in any state or other jurisdiction in which such offer, solicitation or sale would be unlawful prior to registration or qualification under the securities laws of any such state or other jurisdiction.



Investment Thesis

- Positive pivotal trial results for lead program in Q2 '24 with New Drug Application (NDA) filing expected by the end of August 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 New Treatment Options for Kidney Diseases





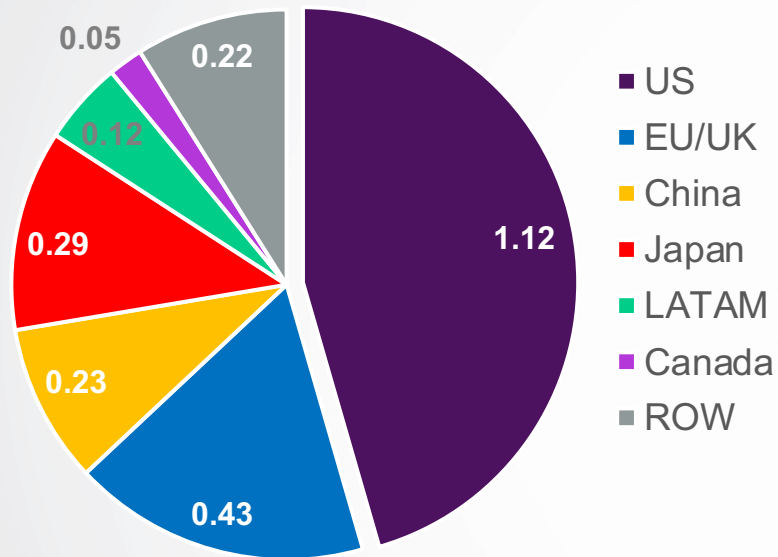
Lead Program:
Oxylanthanum Carbonate (OLC)
*For the Treatment of Hyperphosphatemia
in Chronic Kidney Disease (CKD) Patients
on Dialysis*

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

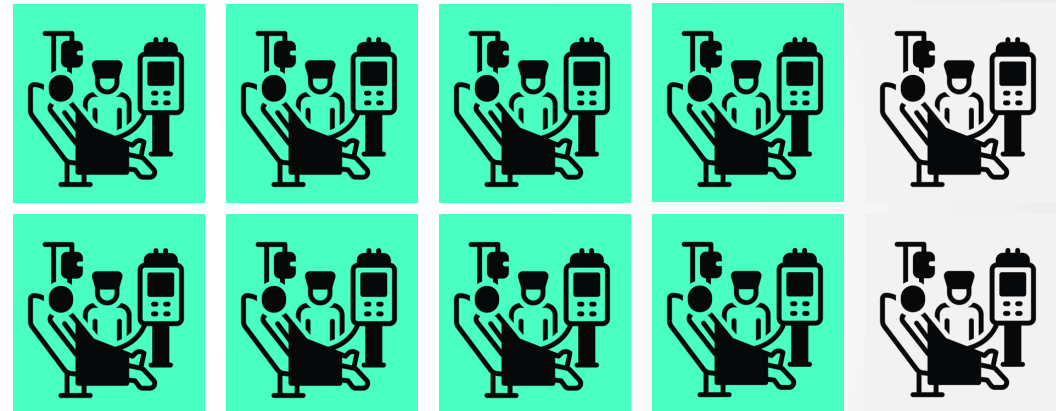


Worldwide Sales



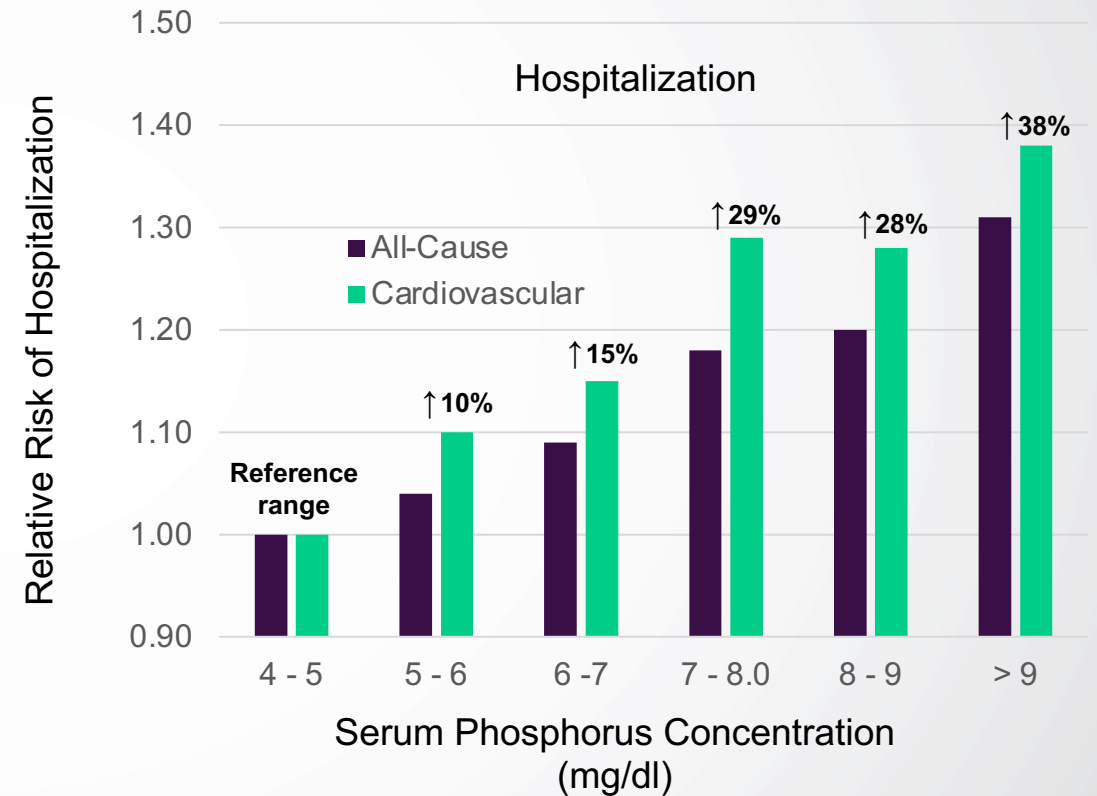
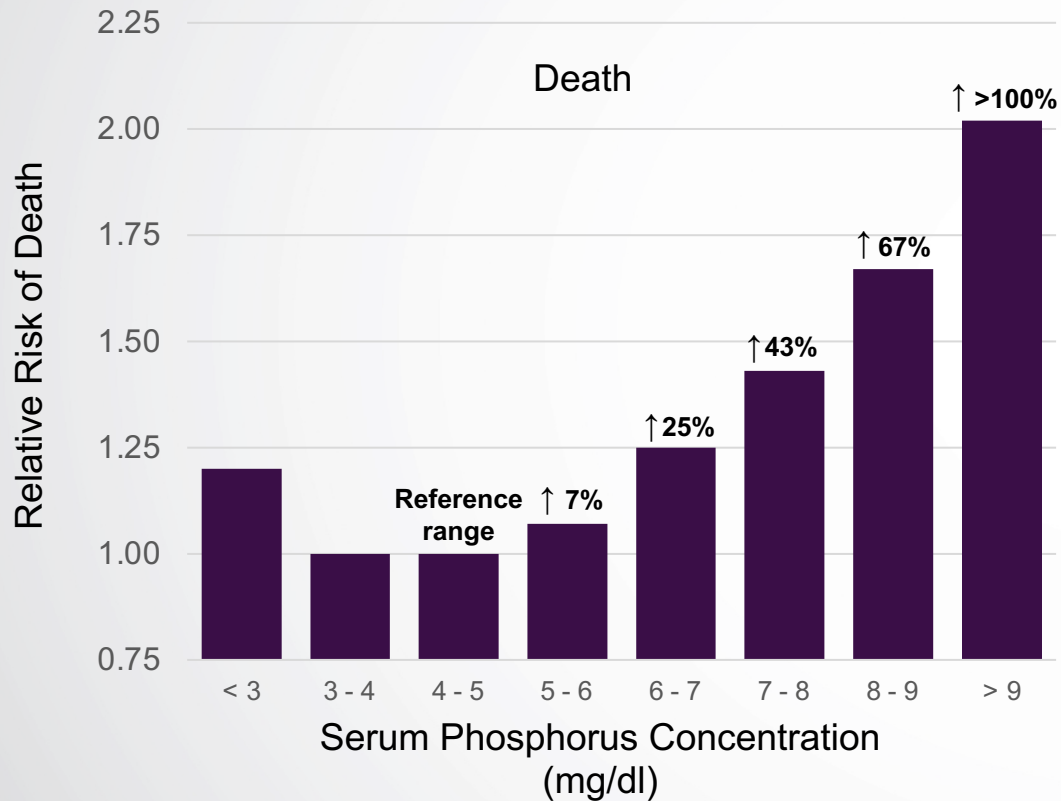
- \$2.5 Billion in 2021 (5.3% CAGR)
- US market over \$1billion
- Unicycive owns worldwide rights

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

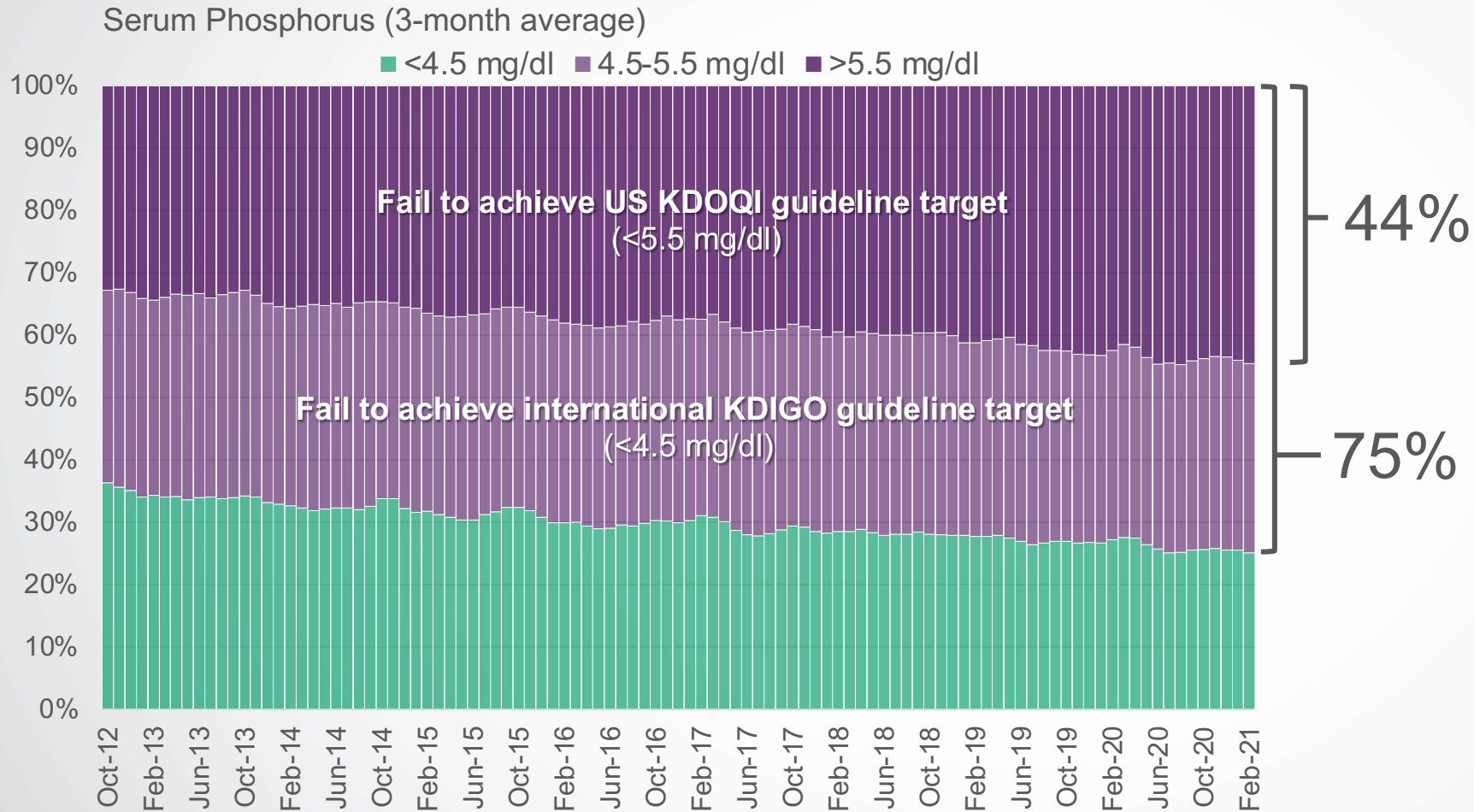


- >500,000 US dialysis patients in 2021 (3% growth rate)
- >400,000 (80%) receiving phosphate binders for hyperphosphatemia

Uncontrolled Hyperphosphatemia is Strongly Associated with Increased Death and Hospitalization



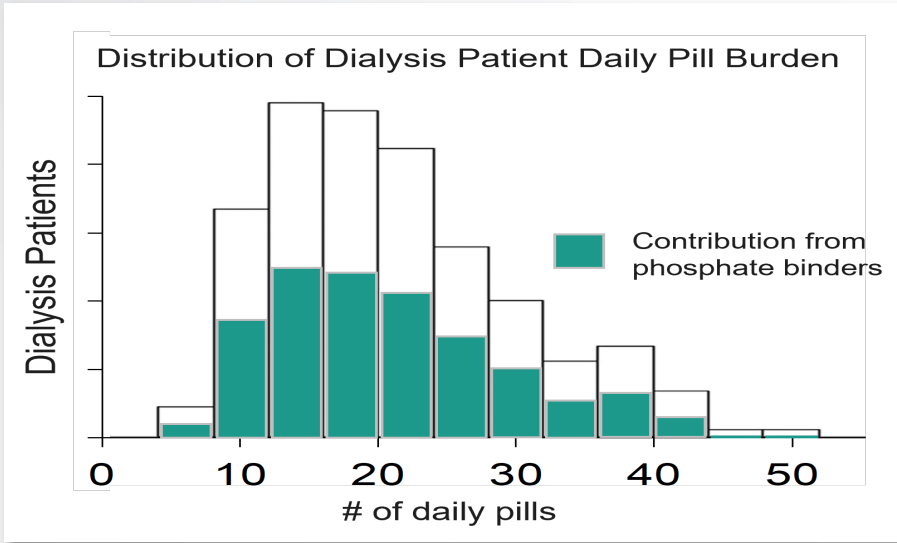
The Unmet Need in Hyperphosphatemia



Despite the availability of 6 FDA-approved phosphate binders, a large percentage of patients fail to achieve serum phosphorus targets

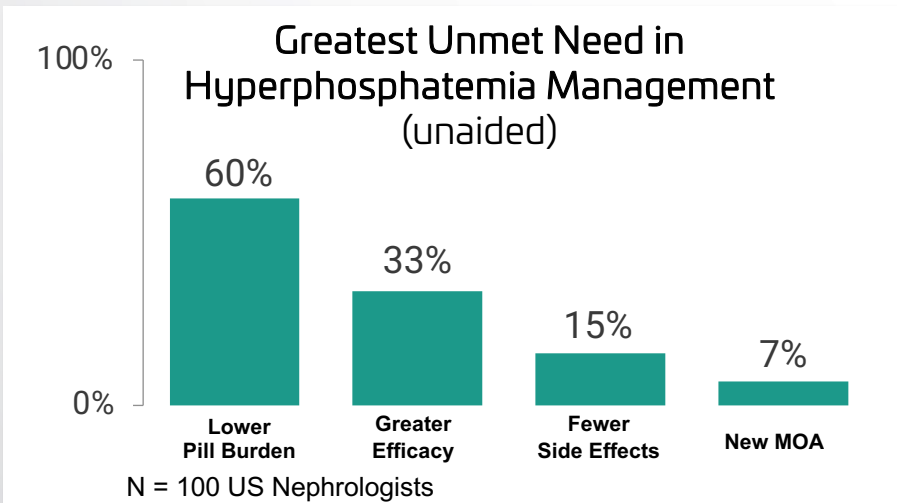
Source: US-DOPPS Practice Monitor, May 2021; <http://www.dopps.org/DPM>

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 phosphate-binding 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
-
- Enables smaller pills
 - Pills are swallowed (not chewed)

Strong Global Intellectual Property



Recommended Daily Starting Dose for Phosphate Binders

MOST PRESCRIBED

Renvela[®]

sevelamer carbonate 800 mg



2 tablets 3 times per day, swallowed
Volume: 6.5 cm³

Oxylanthanum Carbonate (OLC)*

500 mg



1 tablet 3 times per day, swallowed
Volume: 1.15 cm³

Phoslo[®]

calcium acetate 667 mg



2 tablets 3 times per day, swallowed
Volume: 6.8 cm³

Auryxia[®]

ferric citrate 210 mg



2 tablets 3 times per day, swallowed
Volume: 5.5 cm³

Fosrenol[®]

lanthanum carbonate 500 mg



1 tablet 3 times per day, chewed
Volume: 4.0 cm³

Velphoro[®]

sucroferric oxyhydroxide 500 mg








1 tablet three times per day, chewed
Volume: 5.5 cm³

* 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*	
<p>  Demonstrate similar Efficacy to reference drug (Fosrenol) </p>	<p> Bridge to Efficacy Completed 12/2022 </p> <div style="display: flex; align-items: center;">  <div style="margin-left: 10px;"> <p>Bioequivalence Confirmed</p> <p>1 OLC vs Fosrenol[®] Pharmacodynamic Bioequivalence Trial in Healthy Volunteers</p> </div> </div>	
<p>  Demonstrate similar Safety / Tolerability to reference drug (Fosrenol) </p>	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Bridge to Safety/Tolerability Completed 6/2023</p>  <p>Some quantitative variability observed – additional study needed</p> <p>2 OLC vs Fosrenol[®] Pre-Clinical Study</p> </div> <div style="text-align: center;"> <p>Bridge to Safety/Tolerability Completed 6/2024</p>  <p>Favorable Tolerability Profile Confirmed</p> <p>3 Pivotal Clinical Tolerability/Exposure Trial in Dialysis Patients</p> </div> </div> <p style="text-align: center; margin-top: 10px;"> </p>	

* 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 $\geq 5\%$ 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

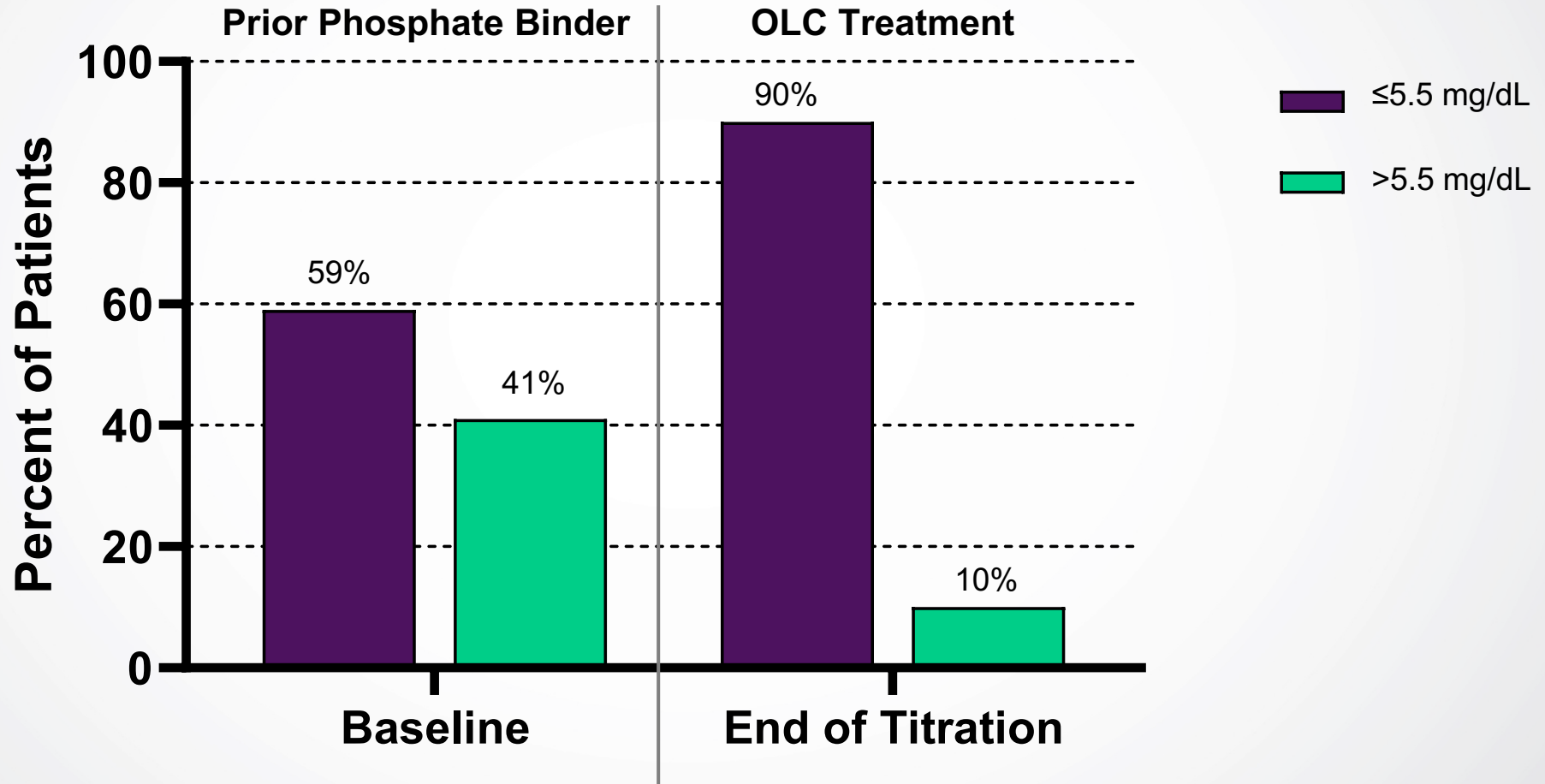
Fosrenol lanthanum carbonate		Renvela sevelamer carbonate		PhosLo calcium acetate		Velphoro sucroferric oxyhydroxide		Auryxia ferric citrate		Xphozah tenapanor	
Nausea	11%	Vomiting	22%	Hypercalcemia	13-16%	Diarrhea	24%	Diarrhea	21%	Diarrhea	43-53%
Vomiting	9%	Nausea	20%	Nausea	4-6%	Discolored feces	16%	Discolored feces	19%		
Abdominal pain	5%	Diarrhea	19%	Vomiting	2-4%	Nausea	10%	Nausea	11%		
		Dyspepsia	16%					Constipation	8%		
		Abdominal pain	9%					Vomiting	7%		
		Flatulence	8%					Cough	6%		
		Constipation	8%								

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



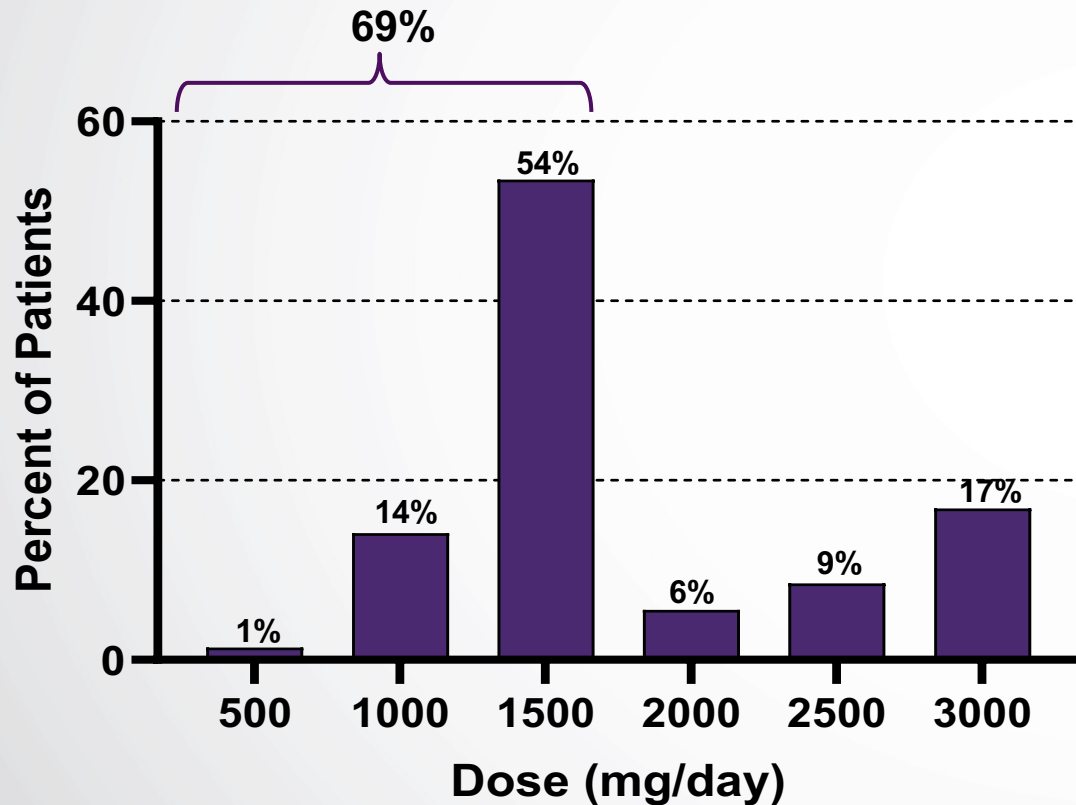
Serum Phosphate Control in Safety Population (N=86)



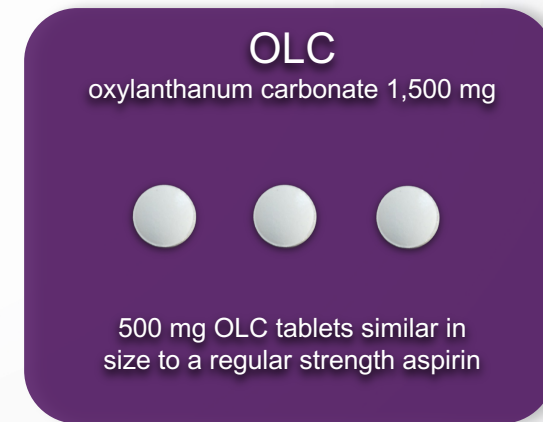
Baseline – Serum phosphate levels at screening before washout

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

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



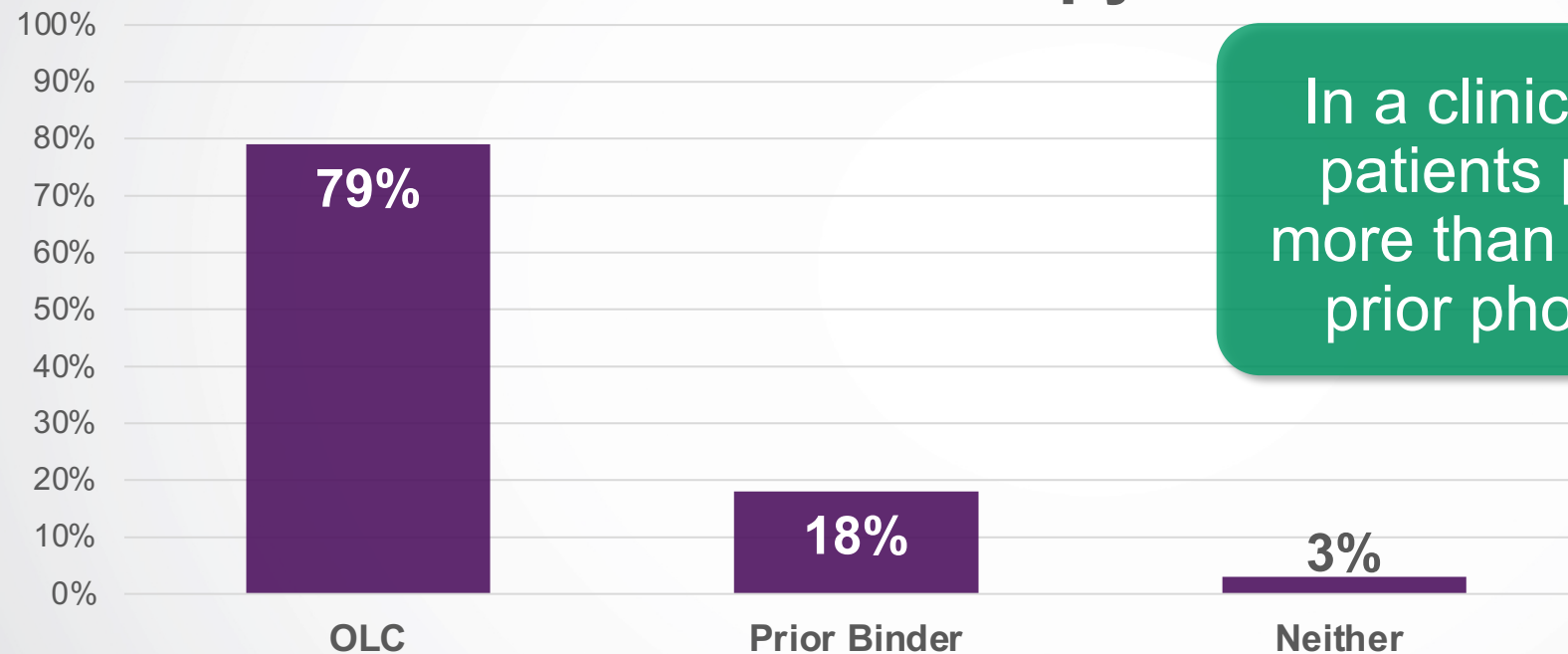
Of the 71 evaluable patients, 69% achieved a target serum phosphate level of ≤ 5.5 mg/dL at an OLC dose of ≤ 1500 mg/day or less





Patient Reported Outcomes* from Pivotal OLC Trial

Preferred Therapy



In a clinical trial, dialysis patients preferred OLC more than 4 to 1 over their prior phosphate binder

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



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 (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



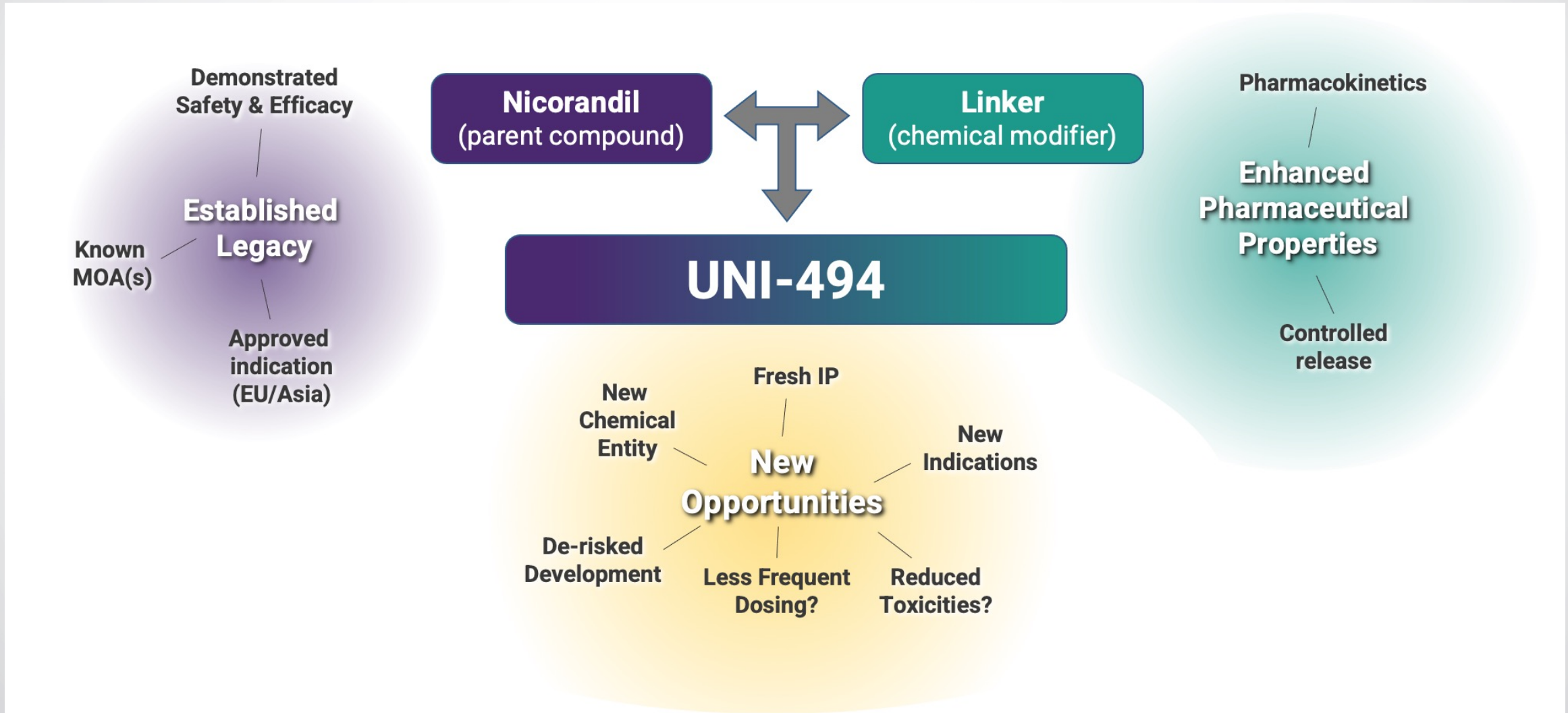
UNI-494: Mitochondrial-Targeted Therapy for Kidney Disease



UNI-494

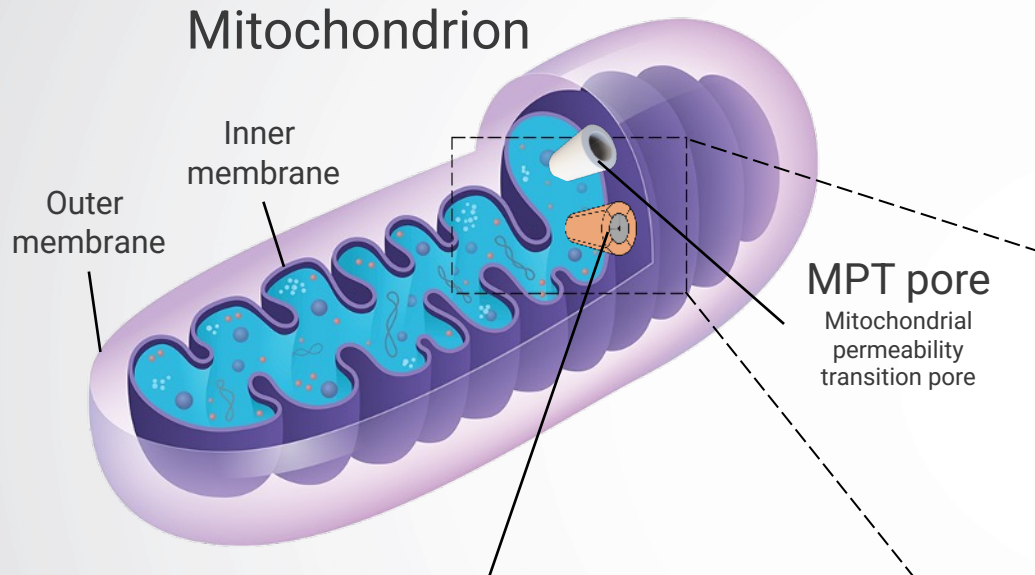
- Enrollment complete in Phase 1 dose-ranging study with results expected in Q3 2024
- Strong intellectual property protection with recent Method of Use patent valid to 2040
- Targeting Acute Kidney Injury (AKI)
 - Potential first indication in Delayed Graft Function
- U.S. Orphan drug designation for the prevention of Delayed Graft Function in kidney transplant patients

UNI-494 Profile

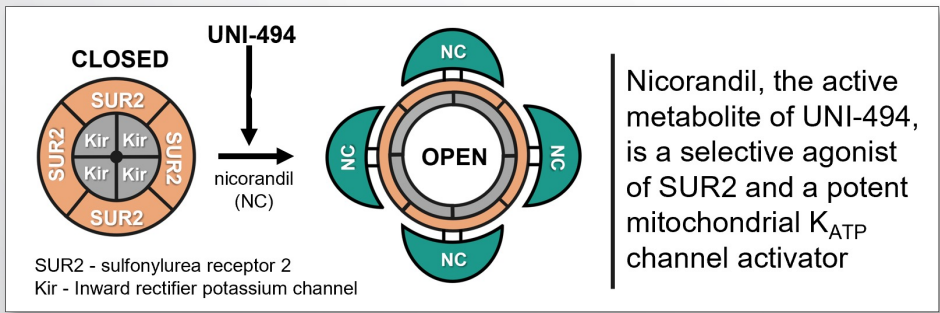
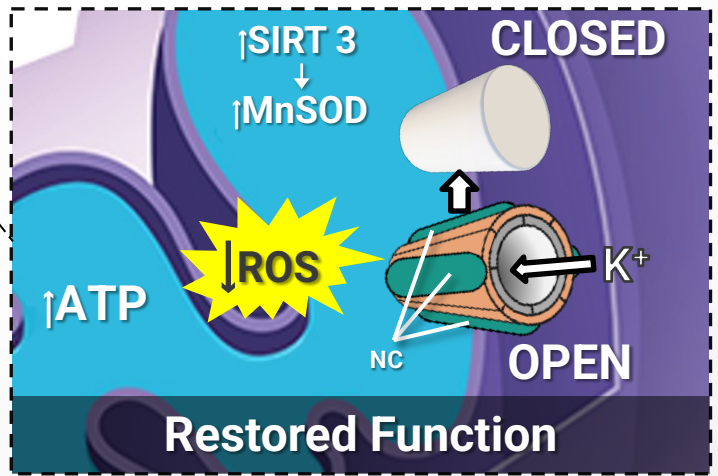
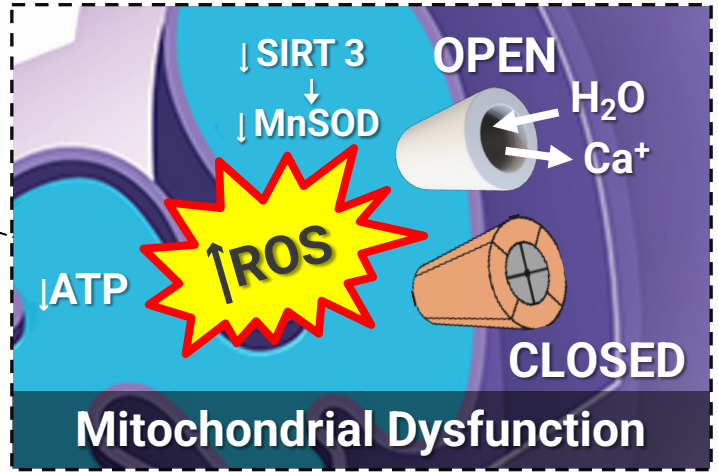


UNI-494 Restores Mitochondrial Function

Mechanism of Action



mitoK_{ATP} channel



- 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 (K_{ATP}) activator
- Binds to SUR2 subunit of K_{ATP} channel that in turn leads to closing of MPT pores
- Down-regulates production of ROS

Nicorandil: Clinical Evidence for Renoprotection



Clinical Setting	Outcome	Ref
Acute Kidney Injury		
Patients with poor kidney function scheduled for PCI (n=213) randomized to saline or nicorandil	<ul style="list-style-type: none"> • 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%, 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 	Nawa et al., 2015
At-risk patients scheduled for PCI (n=128) randomized to placebo or nicorandil	<ul style="list-style-type: none"> • Dose: 10 mg/day; 30 mins before to 3 days after PCI • Significant reduction in contrast-induced nephropathy (4.7% vs 21.9%, p <0.008) • No change in eGFR from baseline, significant decline in eGFR in control arm) 	Iranirad et al., 2017

Clinical Setting	Outcome	Ref
Chronic Kidney Disease		
Proteinuric patients (n=136) randomized to placebo, ISDN or nicorandil for 6 months	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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.

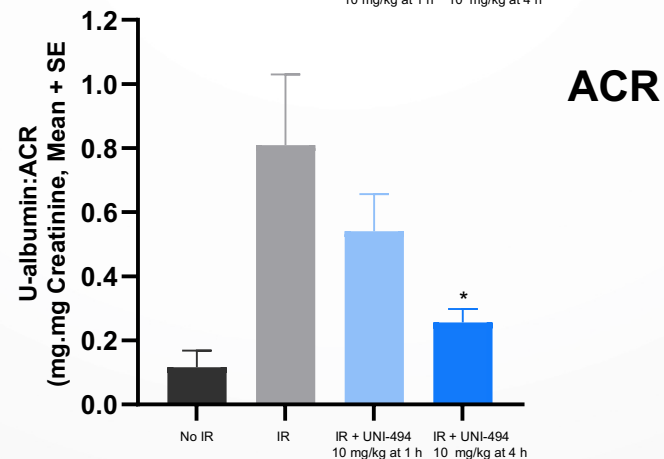
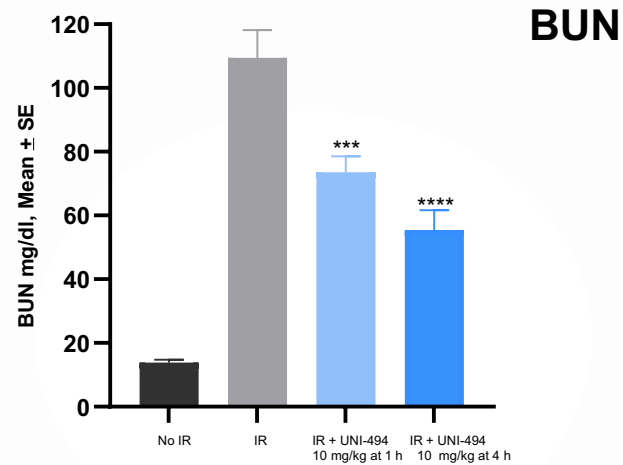
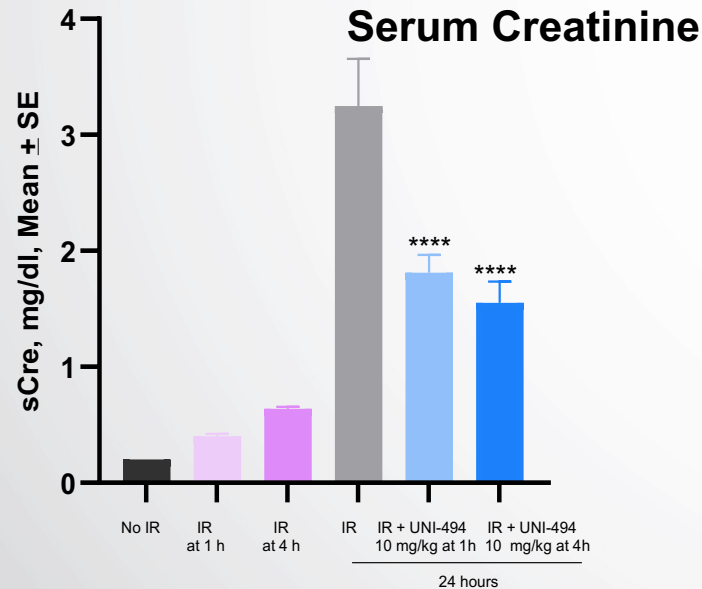
Intravenous UNI-494 Ameliorates IRI in the Rat Kidney in a Therapeutic Mode



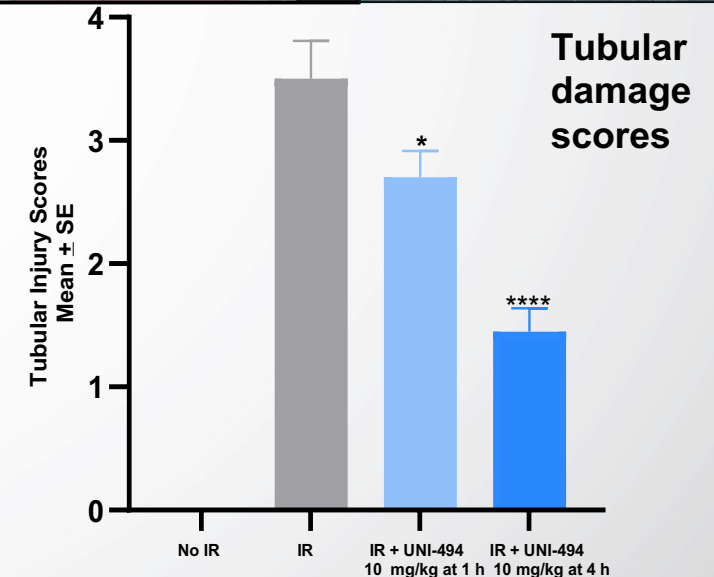
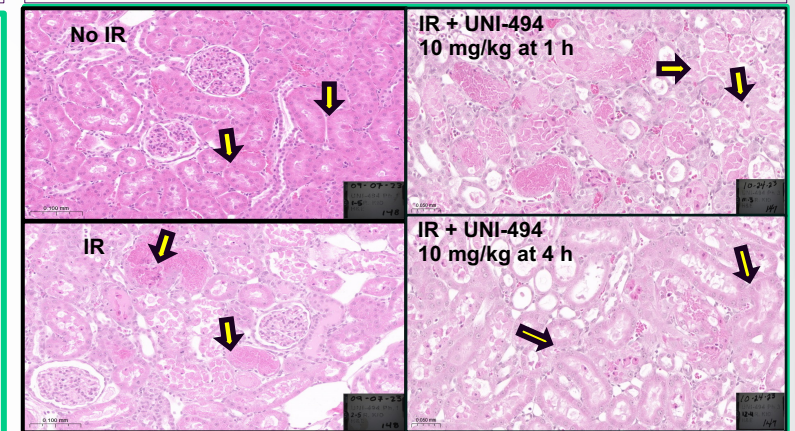
Kidney Functional Markers

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



Tubular damage images and

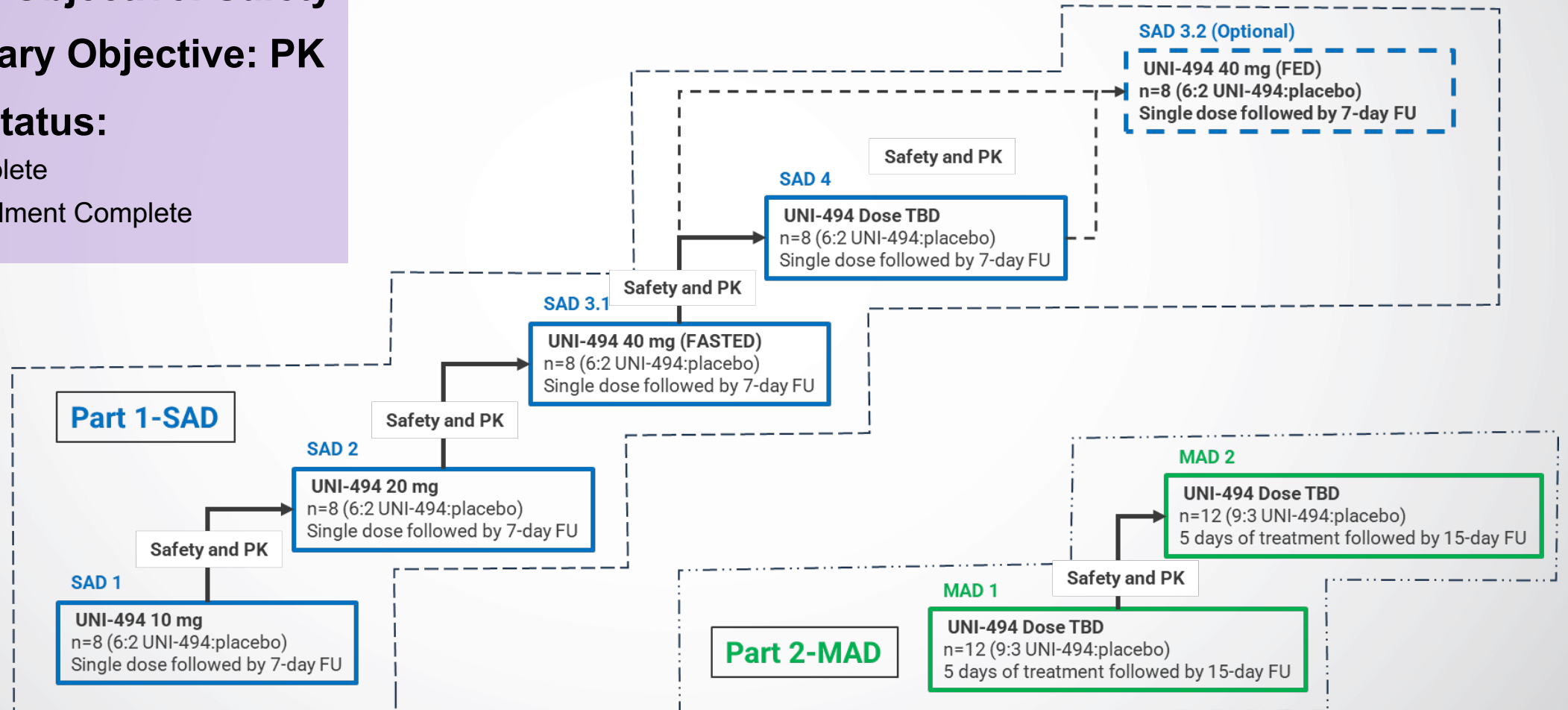


*p = 0.05; ***p = 0.001; ****p = 0.0001 when compared to No IR group; Arrows pointed to proximal tubule; Tubular Scores as per Jablonski et al 1983



UNI-494 Phase 1 Study Design & Status

- ✓ **Primary Objective: Safety**
- ✓ **Secondary Objective: PK**
- ✓ **Study Status:**
 - ✓ SAD Complete
 - ✓ MAD Enrollment Complete





Potential Indications for UNI-494

Acute Kidney Injury

- A sudden loss of kidney function that is determined based on increased serum creatinine levels and decreased urine output
- Limited to a duration of 7 days
- Associated with morbidity and mortality; ~2 million people die of AKI worldwide annually
- Survivors of AKI are at increased risk of chronic kidney disease and end stage renal disease

Delayed Graft Function (DGF)

- AKI that occurs in the first week after kidney transplantation, which necessitates dialysis intervention
- DGF can result in sub-optimal or impaired graft function and is one of the most common and serious complications of kidney transplantation
- No FDA approved drugs for the treatment of DGF
- Ischemia/reperfusion injury (IRI) is known to be a major causative factor for the AKI that results in DGF during kidney transplantation



UNI-494 Global Intellectual Property



- **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



Unicycive Directors & Advisors

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Vivo Capital



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



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



Shalabh Gupta, MD
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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	\$41.8 million (as of June 30, 2024)
Market Cap	\$35.4 million (as of August 19, 2024)
Shares of Common Stock Outstanding	94.4 million common shares
Additional Preferred (if converted to common)	
Series A-2	26.2 million shares
Series B-2	7.9 million shares
Fully Diluted Shares (if preferred converted to common)	128.5 million shares
Fully Diluted Market Cap	\$48.2 million

Note: Share counts as of August 19, 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 Filing (August '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 enrollment complete (2024)
- ❑ Report Phase 1 study results (Q3 '24)
- ❑ Advance to Phase 2 POC Study (2024/2025)

Investor Relations

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