

# Ardelyx Announces Peer-Reviewed Publication of Positive Phase 3 Results of Tenapanor for the Treatment of Hyperphosphatemia in the Journal of the American Society of Nephrology

Ardelyx's investigative agent for end-stage renal disease patients on dialysis represents first non-binder innovation to lower patients' phosphate levels, a critically important parameter that is correlated with morbidity and mortality
- Ardelyx's approach leverages newly discovered pathway for the paracellular transport and absorption of phosphate
- Statistically significant reduction in elevated phosphate levels chieved with the napanor trastment as compared to placebo

FREMONT, Call, March 7, 2019 / PRNewswire / - Ardelyx, Inc. (Nasdar; ARDX) today announced the publication in the Journal of the American Society of Nephrology (JASN) of results from the first of two Phase 3 pivotal trials for tenganor to treat hyperphosphatemia in patients with end-stage renal disease (ESRD) who are on dialysis. During the treatment period, 164 patients completed treatment in one of three mandmized doaing groups (3, 10 and 3) mg tratino) of tenganor twice dialy. The data demonstrated that three we estimate a stating data system. The mandmixed data three treatment groups, with mean reduction of 1.0-1.2 mg/d, over 8 weeks (all P < 0.001), Notably, in a pre-specified secondary analysis of serum phosphate charges in the rank withdrawal pelocit, three was a statistically applicant difference in the cases of serum phosphate betwee thereme and an advance of a 0.001. Notably, in a pre-specified secondary analysis of serum phosphate charges in the rank withdrawal pelocit, three was a statistically applicant difference in the cases of serum phosphate betwee thereme a statistical synaphicant difference in the case of serum phosphate charges on the phosphate charges on the case of serum phosphate betwee thereme and the case of serum phosphate charges on the case of serum phosphate charges on the case of serum phosphate charges on the case of serum phosphate betwee thereme a statistical synaphicant difference in the case of serum phosphate charges on the case of serum phosphate betwee thereme a statistical synaphicant difference in the case of serum phosphate betwee thereme a statistical synaphicant difference in the case of serum phosphate charges on the case of serum phosphate betwee thereme a statistical synaphicant difference in the case of serum phosphate charges on th



These results, published in one of the most distinguished journals for rephrology worldwide, storogy support the ability of tenapanor to reduce phosphate levels in ESRD patients with a simple regimen of just two small pills twice per day," said chief development officer, David P. Rosenbaum, Ph.D. "We look forward to completing our second monotherapy Phase 3 trial, PHREEDOM, from which we currently expect to receive results in the fourth quarter of 2015. In addition, in the second half of this year, we also expect to receive results from our clinical trial, MMPUPY, a Phase 3 study to evaluate a combination regimen of tenapanor with phosphate binders. We set exceled about the progress we've made and the data that will be forthcoming as we continue to pursue our goal of providing ESRD patients with a multicate therapeduc alternative for lowering hosphato."

Dr. Geno Chertox, Division Chertox and Professor of Medicines. Startord University, and serior autors added. The results from this study demonstrates the respansion to as a clinically meaningful effect in lowering samunp hosphanes in these patients. While SERD is associated with high motifskily and motifskily and motifskily and motifskily and motifskily in the field has not seen significant groundbreaking innovation in many years. I consider treaspans on a simple stances in the field. These patients. Mill associated with high motifskily and motifskily and motifskily the field has not seen significant groundbreaking innovation in many years. I consider treaspans on a simple stance and the field has not seen significant groundbreaking innovation in many years. I consider treaspans on a patient on displays:

Anderly's second Phase 3 study, the PHREEDOM trial, is fully enrolled, and the company expects to report results from this registration-enabling study in the bourth quarter of this year. Anderly's third Phase 3 study, the AMPUPY trial, designed to evaluate expanded use of terapanor as adjunctive therapy to phosphate binders, is enrolling patients, and the company expects to report results from this registration-enabling study in the bourth quarter of this year.

### About the Phase 3 Trial

March 7, 2019

The Phase 3 trial described in the JASN paper was an eight-week, double-blind, randomized trial, with a lour-week, placebo-controlled, randomized withdrawal period. Ardelyx enrolled a total of 219 ESRD patients with hyperphosphatemia who are on dialysis across 41 U.S. sites. Enrolled patients were randomized trial, with a lour-week, placebo-controlled, randomized withdrawal period. Ardelyx enrolled a total of 219 ESRD patients with hyperphosphatemia who are on dialysis across 41 U.S. sites. Enrolled patients were randomized trial, with a lour-week, placebo-controlled, randomized withdrawal period. With the option of the other week, placebo-controlled, randomized without a renor week of upper terms in on their current temparor does are site week to placebo for a low-ek, placebo-controlled, randomized, randomized 11 to ether remain on their current temparor does are site week to 20, is completed terms. The MRP. ECG30 completed terms MRP.

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The PHREEDOM Intial, the company's second Phase 3 intrinal Intial demapanor for the treatment of hyperphosphatemia in ESRD patients on dalysis, is currently underway. The study's design includes a 26-week open-label atempt and the end of the treatment period, with a 12-week placebo-controlled, randomized withdrawal period followed by an additional 14 week open-label atempt on the treatment period. with a 12-week placebo-controlled, randomized withdrawal period followed by an additional 14 week open-label atempt on the traatment period. The AMPLIEY trial

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### About Hyperphosphatemia

hteresting is a condition resulting in an abnormally elevated level of phosphorus in the blood that is estimated to affect more than 745,000 people in major developed countries. Phosphorus, a vital element required for most cellular processes, is present in almost every food in the Western det, and, in individuals with normal kidney bunction, excess delary phosphorus is efficiently removed by the kidneys and excreted in urine. In adults with functioning kidneys, normal serum phosphorus levels are 2.5 to 4.5 mg/dL. With kidney failure, elevated phosphorus barets annot a diagnosed as hyperphosphatemia when serum phosphorus levels are greater than 4.5 mg/dL, according to KDIGO guidelines<sup>1</sup>. Although patients with end-stage renal disease (ESRD) raise to disting to display to diminate harmful ageris, flees patients cannot adequately hande a typical daily phosphate intake and other means of managing phosphorus levels must be employed. In addition to displays, ESRD patients are put on restrictive tow phosphorus dees and are currently prescribed medications called phosphate index sometimes on the trademost of hyperphosphatemia and are currently prescribed medications called phosphate hadden sometimes on the trademost of hyperphosphatemia and and come means of managing phosphorus levels must be employed. In addition to displays, ESRD patients are put on restrictive tow phosphorus dees and are currently prescribed medications called phosphate haddens currently marketed for the teamerint of hyperphosphatemia.

#### About Tenapanor

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## Ardelyx, Inc.

Analysis is coused on enhancing the way people with cardiorenial diseases are treated by developing first-in-class medicines. Ardelyx's cardiorenial pelinie includes the Phase 3 development of tempanor for the treatment of hyperphosphatemia in people with end-stage renail disease (ESRD) who are on dialysis, and RDX013, a potassium secretagogue program for the potential treating of high potassium, or hyperhalema, a problem among central patients with kidney and/or heard disease. In addition, Ardelyx has completed Phase 3 development of tempanor for the treatment of initiable bowel syndrome with constipation (IBS-C) and submitted a new drug application, or NDA, to the U.S. Food and Drug Administration, or FDA, for the treatment of patients with IBS-C with has been granded a target action disease (LSRD) who are on dialysis, and RDX013, a potassium secretagogue program for the treatment of initiable bowel syndrome with constipation (IBS-C) and submitted a new drug application, or NDA, to the U.S. Food and Drug Administration, or FDA, for the treatment of patients with IBS-C with has been granded target action disease (LSRD) who are endialysis, and RDX013, a potassium secretagogue program for the treatment of initiable bowel syndrome with constipation (IBS-C) and submitted a new drug application, or NDA, to the U.S. Food and Drug Administration, or FDA, for the treatment of patients with IBS-C with has been granded target action data user the treatment of with target activated as the state of the treatment of the treatment of treat

#### 1 KDIGO CKD-MBD Guidelines 2017. https://kdigo.org/wp-content/uploads/2017/02/2017-KDIGO-CKD-MBD-GL-Update.odl

Forward Looking Statements

To be exert that statements contained in this press release are not descriptions of historical facts regarding Adelys, they are forward-looking statements reflecting the current beliefs and expectations of management made pursuant to the safe halbor of the Private Securities Reform Act of 1995, including the potential for Adelys's product candidates in treating the diseases and conditions for which they are certering developed, the potential for Adelys's product candidates in treating the diseases and conditions for which they are certering developed, the potential for Adelys's product candidates in treating the diseases and conditions for which they are certering being developed. The potential for Adelys's product candidates in the stating the diseases and conditions for which they are certering being developed. The potential for Adelys's product candidates in the stating the diseases and conditions for which they are certering being developed. The potential for Adelys's product candidates in the stating the diseases and diseases and conditions of the disease and diseases and dis

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SOURCE Ardelyx

visors, swheeler@wheelhouselsa.com, Alex Santos, Wheelhouse Life Science Advisors, asantos@wheelhouselsa.com, Kimia Keshtbod, Ardelyx, Inc., kkeshtbod@arde