

Ardelyx Announces Positive Second Data Analysis from Ongoing NORMALIZE Phase 4 Study Evaluating Tenapanor in CKD Patients on Dialysis

Foundational use of tenapanor as monotherapy or with sevelamer enabled up to 47.4% of patients to achieve normal serum phosphorus levels (<4.6 mg/dL), a 58% improvement over current standard of care

NDA submission for tenapanor for the control of serum phosphorus on-track for mid-2020

Separately, Ardelyx's tenapanor partner in Japan, Kyowa Kirin, presented Phase 2 data at ERA-EDTA demonstrating tenapanor enabled a significant reduction in overall pill burden (mean reduction in phosphate binder pill usage by 80%), while maintaining serum phosphorus control MONT, Call, June 15, 2020. PRNewswire – Ardelyr, Inc. (Nasskar, ARDX), a specialized biopharmaceutical company focused on developing first-in-class: medicines to improve treatment for people with lidney and cardiovascular diseases, today reported positive data from its origoing NORMALIZE study, which is designed to evaluate the ability of tenganor, as monotherapy or bination with sevelames, to achieve serum phosphora levels in the normal range (25 – 4.5 mg/st.) in patients with chronic kidney disease (DKD) on dialysis. Tenganori is an investigational, first-in-class, phosphate absorption inhibitor which, if approved, will provide a completely new approach for the control of serum phosphorus in patients with CKD on dalysis, blocking the spinor of phosphorus or y classes.



These data from the NORMALE2 study are urprecedented in terms of the proportion of patients able to achieve summ phosphorula (week < 4 minute during the contrast Naur Spange DD, FASN, chiel of the Division of Nephrology and Hypertension at Northabore University Health System. This represents an important advancement in the management of perphrophatements of patients able to achieve sumministic during the property balance and the property of the division of the property balance and the proper

The NORMALIZE extension study allowed patents from PHREEDOM, the positive Phases 3 long-term monotherapy study, to continue therapy with tenapanor, and enabled those in the safety control arm neceiving sevelamer, to transition to tenapanor. The planned second analysis demonstrated that the foundational use of tenapanor as monotherapy or in combination with sevelamer cathorate produces a significant phosphorus-bavering effect with a meen serum phosphorus reduction of 2.3 mg/dL, from meen baseline phosphorus and 2.7 mg/dL, at the teimer of 4.9 mg/dL at the teimer of this analysis. Of the 171 patients in this interme manyles are to respanse or to 2.3 mg/dL, from a meen baseline phosphorus reduction of 2.3 mg/dL, from a meen baseline phosphorus reduction of 2.3 mg/dL, from a meen baseline phosphorus reduction of 2.3 mg/dL, from a meen baseline phosphorus reduction of 2.3 mg/dL, from a meen baseline phosphorus reduction of 2.3 mg/dL, from a meen baseline phosphorus reduction of 2.3 mg/dL, from a meen baseline phosphorus reduction of 2.3 mg/dL, from a meen baseline phosphorus reduction of 2.3 mg/dL, from a meen baseline phosphorus reduction of 2.3 mg/dL, from a meen baseline phosphorus reduction of 2.3 mg/dL, from a meen baseline phosphorus reduction of 2.3 mg/dL, from a meen baseline phosphorus reduction of 2.3 mg/dL, from the rate of platerist with a chernel and grant from a schere and multiplate and from a chernel and grant from a schere and multiplate and produces a schere and multiplate and produces and the schere and multiplate and platerist and analysis. Of the platerist phosphorus reduction of 2.3 mg/dL, from a meen baseline phosphorus reduction of 3.5 mg/dL meen file platerist and platerist phosphorus reduction of 3.5 mg/dL meen file platerist phosphorus reduction and grant from and platerist phosphorus reduction and platerist phosphorus reduction of 3.5 mg/dL meen file platerist phosphorus reduction and grant from plateristic phosphorus reduction and grant from platerist phosphorus reducting and grant from

Separately, Kyowa Kirin Co., Ltd., a Japan-based global specialty pharmaceutical company exclusively developing tenapanor in Japan, presented results from a Phase 2 trial of tenapanor at the European Renal Association-European Dialysis and Transplant Association annual meeting (ERA-EDTA 2020). The abstract was entilled:

A Phase 2 Open-label, Single-arm, First Japanese Study of Tenapanor, a Novel Phosphate Absorption Inhibitor, Focusing on Pill Burden Decrease in Patients with Hyperphosphatemia Undergoing Hemodialysis

The trial was designed to evaluate 1, with temporor, patients could achieve at least a 30%, decrease in many ill burden with emananing their server (The study woulds were statistically significant, with 7.5% (p-0.001) of galaxiest achieving at least a 30%, reduction in mean pill burden in plotphale burder usage was 80% (reduction from the plotphale burder usage

The compelling results of the NORMALIZE study enhance our robust dataset demonstrating tenaparaor's ability to significantly decrease serum phosphorous levels, both as a monotherapy and as part of a dual mechanism approach with phosphate binders," said David Rosenbaum, Ph.D., chief development officer of Andelys. The Phase 2 data reported by our patterner in Japan, Kyowa Kirn, shows that with hempanor we are a bite to control serum phosphorous interdence on understanding of tenaparan rand its potential as a transformative treatment for patients, with hyperphosphatemia. Of note, we are in the final stages of preparing our New Dug Application for tenaparor for theorem of understanding of tenaparan rand its potential as a transformative treatment for patients, with hyperphosphatemia. Of note, we are in the final stages of preparing our New Dug Application for tenaparor for theorem of understanding of tenaparon rand its potential as a transformative treatment for patients, with hyperphosphatemia. Of note, we are in the final stages of preparing our New Dug Application for tenaparor for theorem of tenations and theorem of tenations and the second state development of tenative base standing for tenaparor for theorem of tenations and tenations are tenations and t

June 15, 2020

NORMALIZE Study Design Patients completing the Phase 3 PHREEDOM trial from both the tenapanor arm and the sevelamer safety control arm had the option to particip ate in NORMALIZE, an ong

Paletest entring the study from the transports are with eseman photophonia levels. The normal range are followed with no nedectation charges. Falletest entring the study from the sequence ratified photophonia. > 4.5 mg/dt. have sevelament tablets added incrementally to achieve normal serum photophonia levels. Paletest entering the study from the sevelament stated or partiestement estated in the transport are with serum photophonia levels. Paletest entering the study from the sevelament stated or partiestement estated in the transport assistement estated in the transport estate and the transport assistement estated in the transport estate and the transport assistement estated in the transport estated in the transport estate and the transport estated in the transport estate and the transport estate and the transport estate estated estated in the transport estate and the transport estates and the transport estates and the transport estates and the transport estates and the transport estimates and the transport estates and transport estates and the transport estates and transport estates and transport estates and the transp The primary objective of the study is to evaluate the ability of tenapanor alone or in combination with sevelaamer to achieve serum phosphonas levels within the normal range (2.5 to 4.5 mg/dL) in patients with chronic kidney disease on dialysis whose serum phosphonas levels within the normal range (2.5 to 4.5 mg/dL) in patients with chronic kidney disease on dialysis whose serum phosphonas levels within the normal range (2.5 to 4.5 mg/dL) in patients with chronic kidney disease on dialysis whose serum phosphonas levels within the normal range (2.5 to 4.5 mg/dL) in patients with chronic kidney disease on dialysis whose serum phosphonas levels within the normal range (2.5 to 4.5 mg/dL) in patients with chronic kidney disease on dialysis whose serum phosphonas levels within the normal range (2.5 to 4.5 mg/dL) in patients with chronic kidney disease on dialysis whose serum phosphonas levels were greater than 6.0 mg/dL at baseline.

Kyowa Krin's Phase 2 Study Design A multicenter, open-table, single-am Phase 2 study consisted of a screening period, a 3-week toservation period, and a 26-week teatment period. Patients whose serum phosphorus level was 35 to 7.0 mg/dL, taking at least two phosphate binder pills three times a day were enrolled. Patients received 30 mg of tenspanor twice daily. Phosphate binder treatment was continued acc to individual regimers. To individual regimers, however, the doce was adjusted to maintain serum phosphorus level within 4.0 5 mg/dL from baseline. The primary endpoint was the achievement of at least a 30% decrease in the mean total number of phosphate binder and tenspanor pills compared to the number of phosphate binder and tenspanor pills compared to the number of phosphate binder and tenspanor pills compared to the number of phosphate binder pills at baseline.

About Transports for Hyperphosphatmant Transports (about hyperphosphatmant) Transports, (about hyperphosphatmant) This results in a conformational change of the epithelial cell junctions, thereby significantly reducing paracellular uptate of phosphate absorption. Three successful Phase 3 studes demonstrating transports ability to reduce phosphate levels, as monotherspy and as part of a dual mechanism approach with phosphate binders, have been reported.

About Hyperphosphatemia Hyperphosphatemia is a serious condition resulting in an abnormally elevated level of phosphorus in the blood that is estimated to affect more than 745,000 dalysis patients in major developed countries. The kidney is the organ responsible for regulating phosphorus levels, but when kidney function is significantly impaired, phosphorus in not adequately eliminated to affect more than 745,000 dalysis patients in major developed countries. The kidney is the organ responsible for regulating phosphorus levels, but when kidney function is significantly impaired, phosphorus levels at any point in time (Spherix Gobal Inagins; RealWold Dynamic, Dalysis 2010). Phosphorus levels genate than 5.5 mg/dL have been shown to be an independent risk lactor for cardovascular morbidly and mortally in patients requiring dalysis (Book 2004), and internationally recognized treatment guidelines recommend lovering elevated phosphorus levels based the normal range (<6.6mg/dL).

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