

Ardelyx Announces Science Translational Medicine Publication Detailing Tenapanor's Unique Mechanism of Action Inhibiting Paracellular Phosphate Absorption

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The elucidation of terapenors mechanism is a landmark discovery in our feld causing us to completely rethrik our understanding of phosphate transport and absorption," said Geoff Block, M.D., director of clinical research and a PHREEDOM Itial investigator. "Nearly all patients with ESRD have elevated serum phosphorus, a problem that if not managed properly from the clausing us to completely rethrik our understanding of phosphate transport and absorption," said Geoff Block, M.D., director of clinical research and a PHREEDOM Itial investigator. "Nearly all patients and sasciated with a number of challenges, including low rates of completely rethrik our understanding of phosphate transport and ders a significant to retainity issues and long-error concern related to the sale investigator." The same and ders a significant to retainity issues and long-error concern related to the sale receivance and ders a significant to retainity issues and long-error concern related to the sale receivance and ders a significant to retainity issues and long-error concern related to the sale receivance and ders a significant to retainity issues and long-error concern related to the sale receivance and ders a significant to retainity issues and long-error concern related to the sale retainant and ders a significant to retain train solubulant tere defeatation and the retainant and the sale retainant and the sale retainant and ders a significant to retain train solubulant tere defeatation and the retainant and the retainant and the sale reta

Transparor's rovel mechanism of action has translated into meaningful reductions in serum phosphous in humans, as reported in the <u>findings trans Action's first Phase 3 cloical study</u> evaluating tenaparor for the treatment of hyperphosphatemia in ESRD patients on dialysis. That triat and triat by primary expoint, demonstrating a statistically significant difference in change in serum phosphous between pooles temparor-treated patients and placebo-treated patients from the end of the eight-week treatment period on the four-week transmitories withdrawal period, in the responder population. Temparor was also well-folerated in the trial, with limited discontinuations due to G-felated adverse events in the treatment period and no discontinuations related to G events in the monology withdrawal period.

Tenganors dynamic meduation of lowering phosphate by tight junction mobilization with jurt too small pills has the potential to other a first-ot-4t-should prove patient phosphate and converting effective and to be phosphate and the phosphate and

Ardelyx's Phase 3 PHREEDOM trial is enrolling patients, and the company expects to report results from this registration study in 2019.

About Hyperphosphatemia Phosphore, as valid element required for most cellular processes, is present in almost every food in the Western diet, and, in individuals with normal kidney function, excess detay phosphorus is efficiently removed by the kidneys and exceted in urine. In adults with functioning kidneys, normal serum phosphorus levels are 2.5 to 4.5 mg/d., With kidney failure, elevated phosphorus is efficiently removed by the kidneys and exceted in urine. In adults with functioning kidneys, normal serum phosphorus levels are 2.5 to 4.5 mg/d., according to KORG guidelines¹. Although palents with end stage ment disease (ESRD) (w) or dalysis to eliminate harmful agens, these patients cannot adequately hands a typical daily phosphate intake and other means of managing phosphorus levels must be employed. In addition to dailysis, ESRD patients are put on restrictive tow phosphorus detained and currently prescribed nedications called phosphorus levels in addition to dailysis. ESRD patients are put on restrictive tow phosphorus detained and currently prescribed nedications called phosphorus levels in addition to dailysis.

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

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