

Pharmacokinetics and Pharmacodynamics of IONIS-FXI_{Rx}, an Antisense Inhibitor of Factor XI, in Patients with End-Stage Renal Disease on Hemodialysis



Population Health
Research Institute
HEALTH THROUGH KNOWLEDGE



Hamilton
Health
Sciences

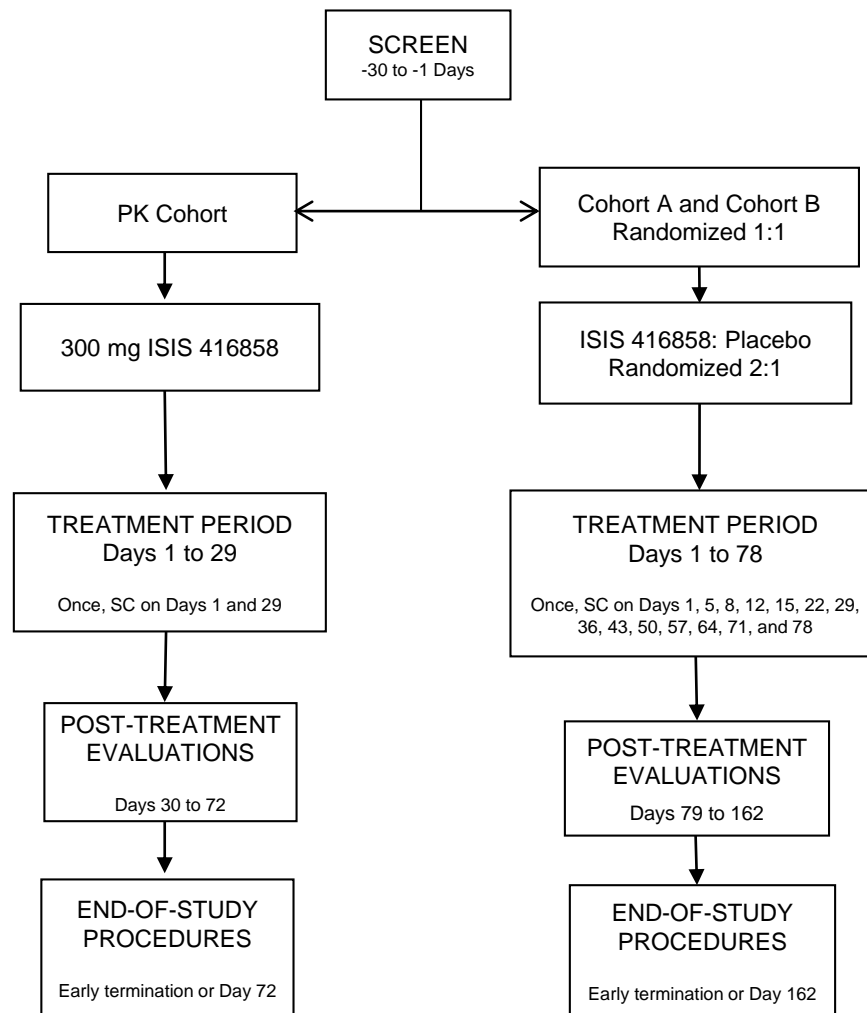


Methods

A total of 49 ESRD patients were enrolled:

6 participants receiving chronic in-center hemodialysis (HD) to receive an open-label single-dose of 300 mg IONIS-FXI_{Rx} either 5 minutes before or 10 minutes after HD

43 participants in a double-blind design to one of two multiple-dose regimens (200 mg or 300 mg) IONIS-FXI_{Rx} or placebo for 12 weeks with 12 weeks of additional follow up. In the double-blind portion, IONIS-FXI_{Rx} was administered subcutaneously ~10 minutes after HD



Conclusions

This study demonstrated that:

- 1) Hemodialysis had no effect on IONIS-FXI_{Rx} pharmacokinetics*
- 2) IONIS-FXI_{Rx} was well tolerated and produced sustained, and dose-dependent reductions in FXI antigen and activity*
- 3) IONIS-FXI_{Rx} reduced severe dialysis circuit clotting events beyond standard heparin use.*
- 4) These data support further evaluation of IONIS-FXI_{Rx} as a potentially safe, effective antithrombotic therapy in ESRD patients on hemodialysis*