# Design and basic characteristics of a national patient registry in ADPKD

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For more information, visit pkdcure.org/registry

#### **Features of Enrollees**

Autosomal dominant polycystic kidney disease (ADPKD) is one of the most common, life-threatening genetic diseases. Fluid-filled cysts develop and enlarge in both kidneys, eventually leading to kidney failure (of which ADPKD is the fourth leading cause). Nearly 50 percent of affected individuals reach end stage kidney disease in their 5th decade of life.

Background

- The PKD Foundation is the only organization in the U.S. solely dedicated to finding treatments and a cure for polycystic kidney disease (PKD) and to improving the lives of those it affects.
- With multiple new therapeutics in development for ADPKD and clinical trials enrolling participants, there is a call for increased ADPKD patient participation in research to support these efforts. In addition, there remains a large need for an improved understanding of the disease's impact on guality of life through longitudinal collection of outcomes measures.

### The ADPKD Registry

- The ADPKD Registry is a national, online collection of patient-reported data on ADPKD patients residing in the U.S., launched in September of 2019.
- The purpose of the Registry is to simultaneously facilitate research discoveries while addressing patient needs:
  - To support patient-centered outcomes research to learn more about the patient journey and discover unmet needs.
  - To aid in the development of new therapies by connecting likely eligible patients with enrolling clinical trials.
  - To capture quality of life and other patient-reported outcomes on a standardized platform.
- The significance and relevance of the Registry design, implementation, and management is maintained through the activities of Advisory Committees and Working Groups consisting of clinician scientists, researchers and patient stakeholders.
- The Registry is hosted on a secure, online platform: participants are registered and consented through the online system.

ADPKD-IS and ADPKD-PDS contact information and permission to use: Mapi Research Trust, Lyon, France, https://eprovide.mapi-trust.org

## **Methods**

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**Diet and Lifestyle** 

Dietary supplements

alcohol and caffeine

· How these habits have

related to their disease

11.20

Experience with

· Issues believed to be

· Past procedures and

current medication

due to liver cvsts

Liver Cvsts

Water consumption

Exercise habits

Dietary habits

affected parent's side changed over time

History of nicotine,

Participants are asked to fill out a series of longitudinal modules about their ADPKD. ၀းဂိ

age at ESRD for each of

the following:

Parents

Siblings

Children

Grandparents

· Aunts, Uncles on

	╎/1 <u>용</u> Family History	
Core Questionnaire		
<ul> <li>Demographics</li> </ul>	Diagnosis, ESRD status,	

 Demographics · Date and method of diagnosis · Current creatinine and

eGFR lab values · Comorbid conditions

 ESRD status Extra-renal manifestations





Vascular Outcomes COVID-19 Impact Health Care Access

Discomfort

 Modules are released either at three month, six month, or annual time points starting at enrollment. New patient-reported modules are designed and implemented utilizing Advisory Committeedirected working groups and patient beta testing panels.

### Participants at Enrollment

As of September 15, 2020, 1352 ADPKD patients across the U.S. have enrolled in the ADPKD Registry and completed at least one of the available modules

	Pre-ESRD	On dialysis	Post-kidney transplant
% of participants*	74.7%	3.5%	19.8%
Median age	46	56	61
Median eGFR	48 mL/min/1.73 m <sup>2</sup>	8 mL/min/1.73 m <sup>2</sup>	57 mL/min/1.73 m <sup>2</sup>

Table 1. Participant cohort ESRD status (N = 1352) \*2% suspect ADPKD but have no formal diagnosis; not included in the above

Participants have a median age of 52 years, and are 72% female, 94% Caucasian, 4% self-identifying as Hispanic/Latino and 2.4% as African American. 12% had a genetic test for PKD, with a vast majority (94%) reporting diagnosis by imaging (69% by ultrasound, 22% by CT and 13% by MRI). Below are representative examples of the data we've collected.





Participant Engagement

outcomes research.

Participants are recruited and engaged through PKDF social media and other communications. 0 0 y f

A personalized Dashboard is provided on the Registry Portal to show participants select aggregated data.

A quarterly newsletter is released. highlighting what the Registry is learning and what is coming next.

### Conclusions

• The ADPKD Registry is a valuable resource in which to engage with ADPKD patients, and to collect patientreported outcomes and perspectives.

 Future goals of the project include increasing the diversity of registry participants, creating a process for data access requests, continuation of outcomes module development, and expansion to clinical data sets. • The Registry began utilizing the self-reported data elements to create cohorts of potentially eligible study participants in August 2020. Thus far, 59% of participants are between the ages of 18-55 with a eGFR above 30 mL/min/1.73m2, which are eligibility criteria for most ADPKD clinical trials. Researchers and industry partners are encouraged to contact the Registry team to aid in recruitment for clinical trials and other

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