

Interpreting Genetic Testing in Cystic Kidney Disease

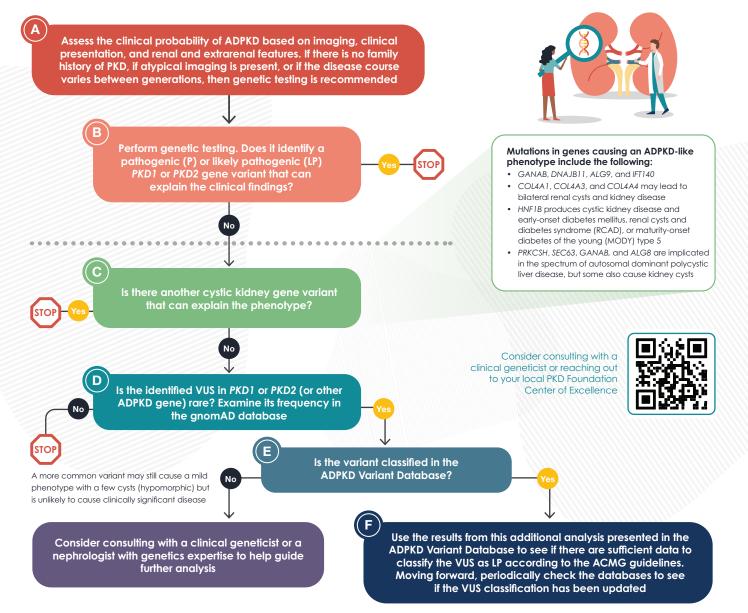
When to perform genetic testing in a patient with suspected ADPKD

Autosomal dominant polycystic kidney disease (ADPKD) is the most common inherited kidney disease, and imaging is the most common approach for diagnosing it. However, because of the highly genetically heterogeneous nature of ADPKD and the impact the genetic variant may have on disease progression, genetic testing is increasingly becoming a component of diagnosing and providing appropriate care to patients suspected of having ADPKD. Although not all patients will require genetic testing, it is recommended if there is no family history of PKD, if atypical imaging is present, or if the disease course varies between generations.

What to do when you encounter VUS during genetic testing

Although genetic tests are optimized for the genes included on the panel, a disease-associated variant may be missed because not all pathogenic changes are always detected. In addition to disease causing variants, genetic testing may also identify variants of uncertain significance (VUS), a non-diagnostic category, leaving the way forward unclear.

Use the flowchart below to organize your approach to testing, including what to do if a VUS is detected. While the flowchart may help you determine when a VUS leans likely pathogenic, it is important to note that not all VUS can be reclassified. We recommend collaborating with a clinical geneticist or reaching out to your local PKD Foundation Center of Excellence to complete the later steps. Please see the next page for a detailed explanation of each step and a practical case study.

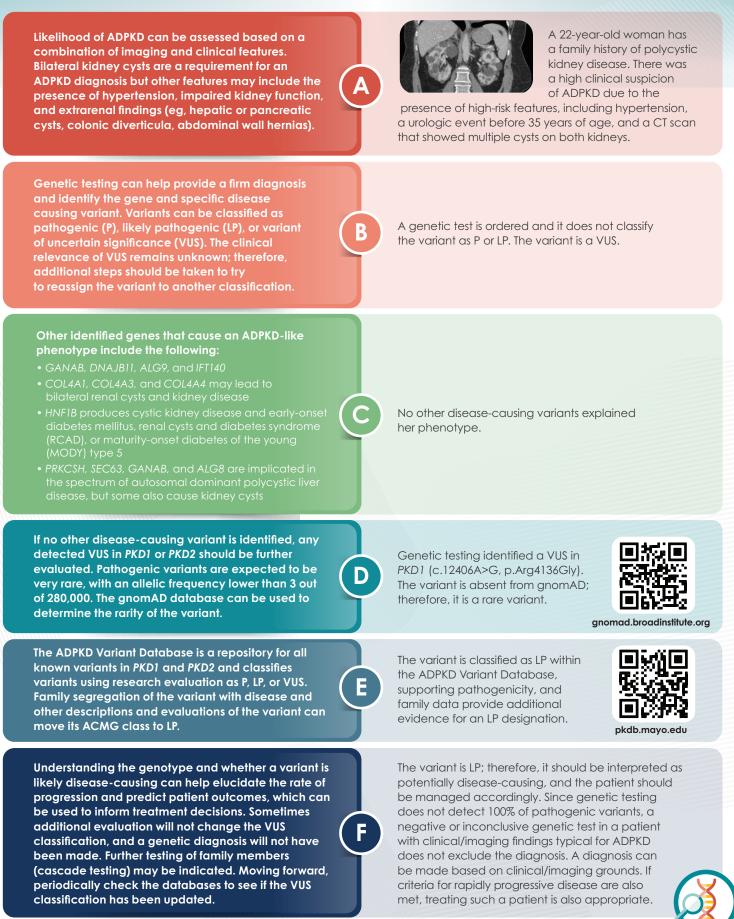


Aklilu AM, et al. The VUS challenge in cystic kidney disease: a case-based review. Kidney360. 2024;5(1):152-159.

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Detailed Description of Each Decision Point

Practical Case Study for How to Assess a Patient Who Has a VUS



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