

**Familial Hypercholesterolemia (FH)** is the most common life threatening genetic disorder. It leads to aggressive heart disease, early cardiac events, and premature deaths. FH (heterozygous HeFH and homozygous HoFH forms) leads to severely elevated LDL-cholesterol levels starting at birth and leads to premature atherosclerosis and early heart disease. And yet...

## Too Many UNDIAGNOSED

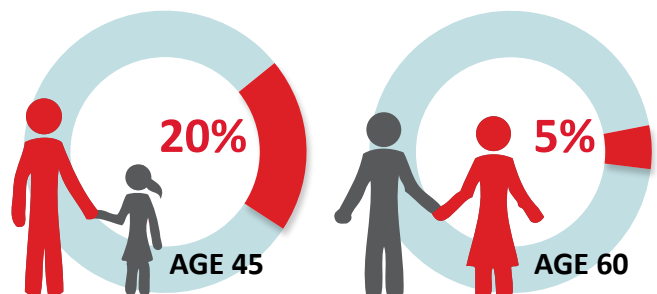
FH is vastly under diagnosed. A lack of understanding of the frequency and consequences of FH, no specific diagnosis code, and no routine family screening allow FH to hide in plain sight.

**85%** The Family Heart Foundation led efforts with CMS to secure an ICD-10 code (E78.01). Moreover, the Foundation is partnering with health systems and healthcare providers to implement the FIND FH® initiative. Through these efforts there are now more than 197,000 individuals in the US with the E78.01 diagnosis code for FH.

## Too Young

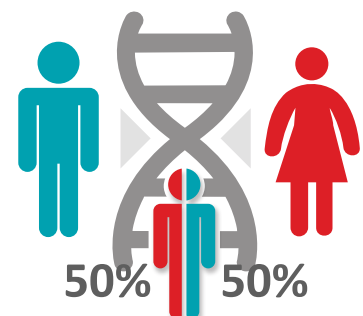
FH is responsible for an estimated 20% of myocardial infarctions before age 45 and 5% before age 60. Individuals with FH have a 20-fold increased risk of early cardiovascular events. FH requires early and life long proactive management.

## 20x Increased Risk of premature cardio events



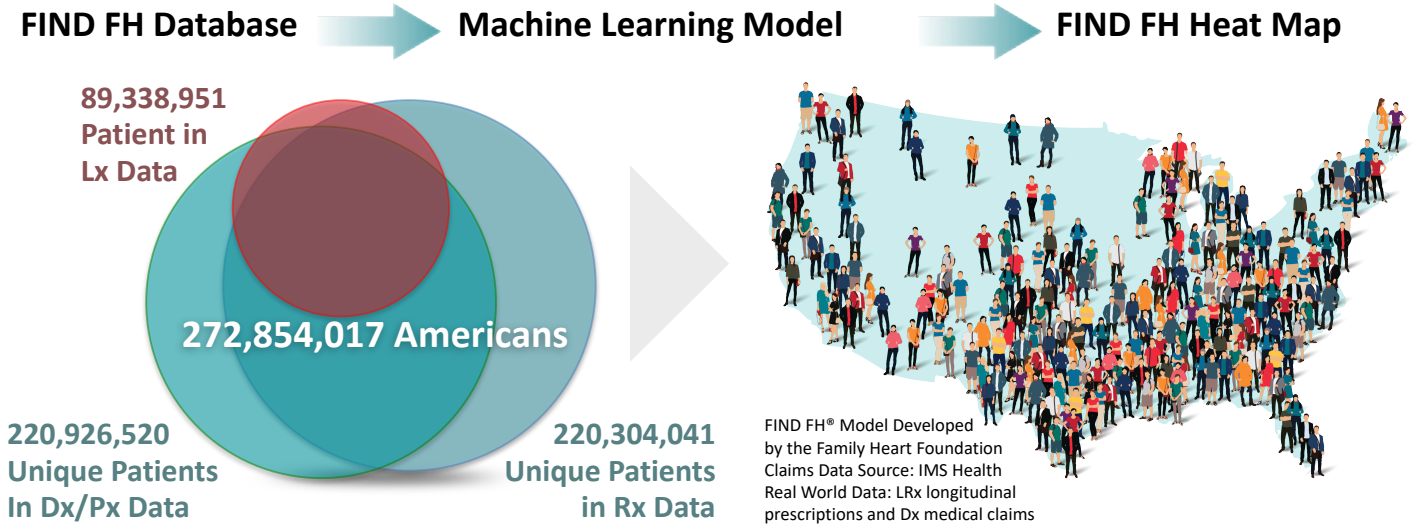
## Too Predictable

FH is an autosomal dominant genetic condition. Each first degree relative of an individual with FH has a 50% chance of having a genetic mutation. Whenever you find an individual with FH you find a family with FH.

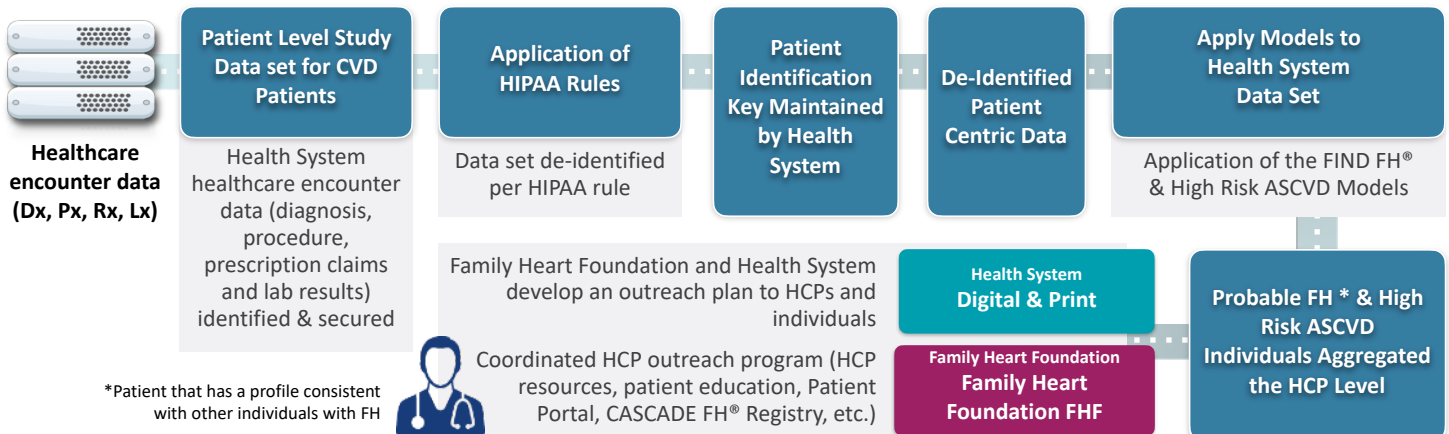


**The Family Heart Foundation's FIND FH initiative** is an innovative approach that leverages machine learning and big data to identify the estimated 85% percent of undiagnosed FH patients. The Foundation uses the output of the model to partner with health systems to facilitate screening and diagnosis. This Precision Screening based approach allows for screening 10 individuals to find 8 undiagnosed FH individuals where traditional population screening based approaches would have required 1,760 individuals to have been screened to find the same 8 individuals.

## The FIND FH Model has identified over 1,300K Probable FH individuals



Through the Family Heart Foundation Atomo has partnered with Penn Medicine, Oregon Health Sciences University, and Ohio Health to secure EHR data, apply the FIND FH model, and identify probable FH individuals to be screened by clinicians in the preventative cardiology clinics of these institutions.



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