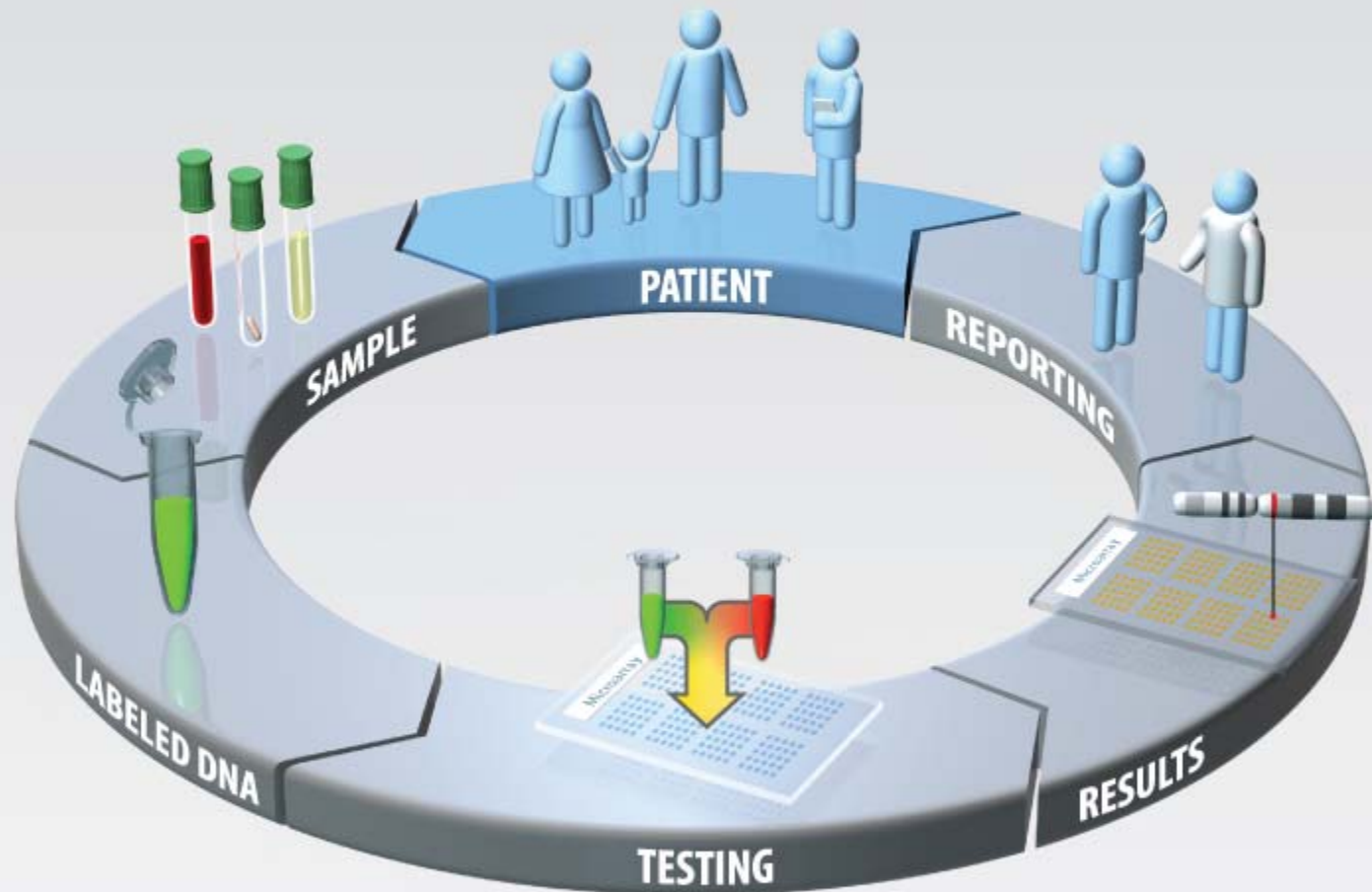
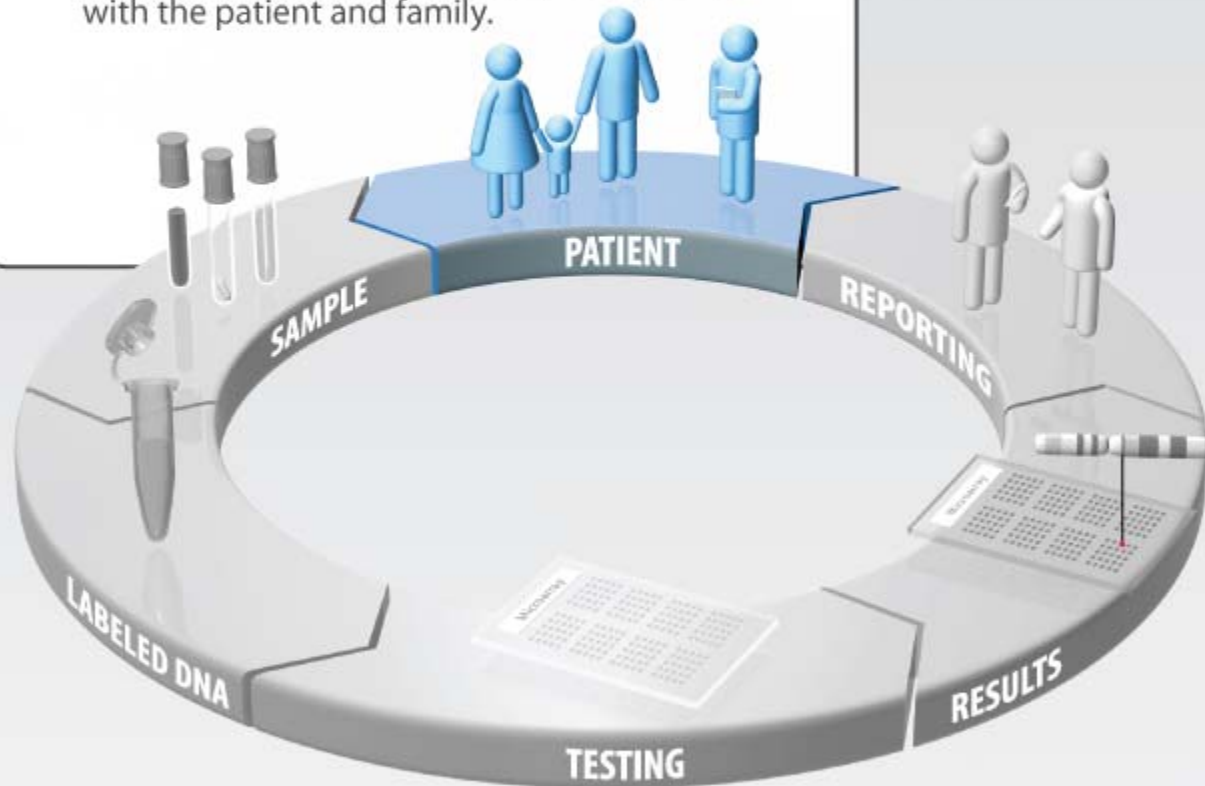


Array-based Comparative Genomic Hybridization (Array CGH) Diagnostic Testing



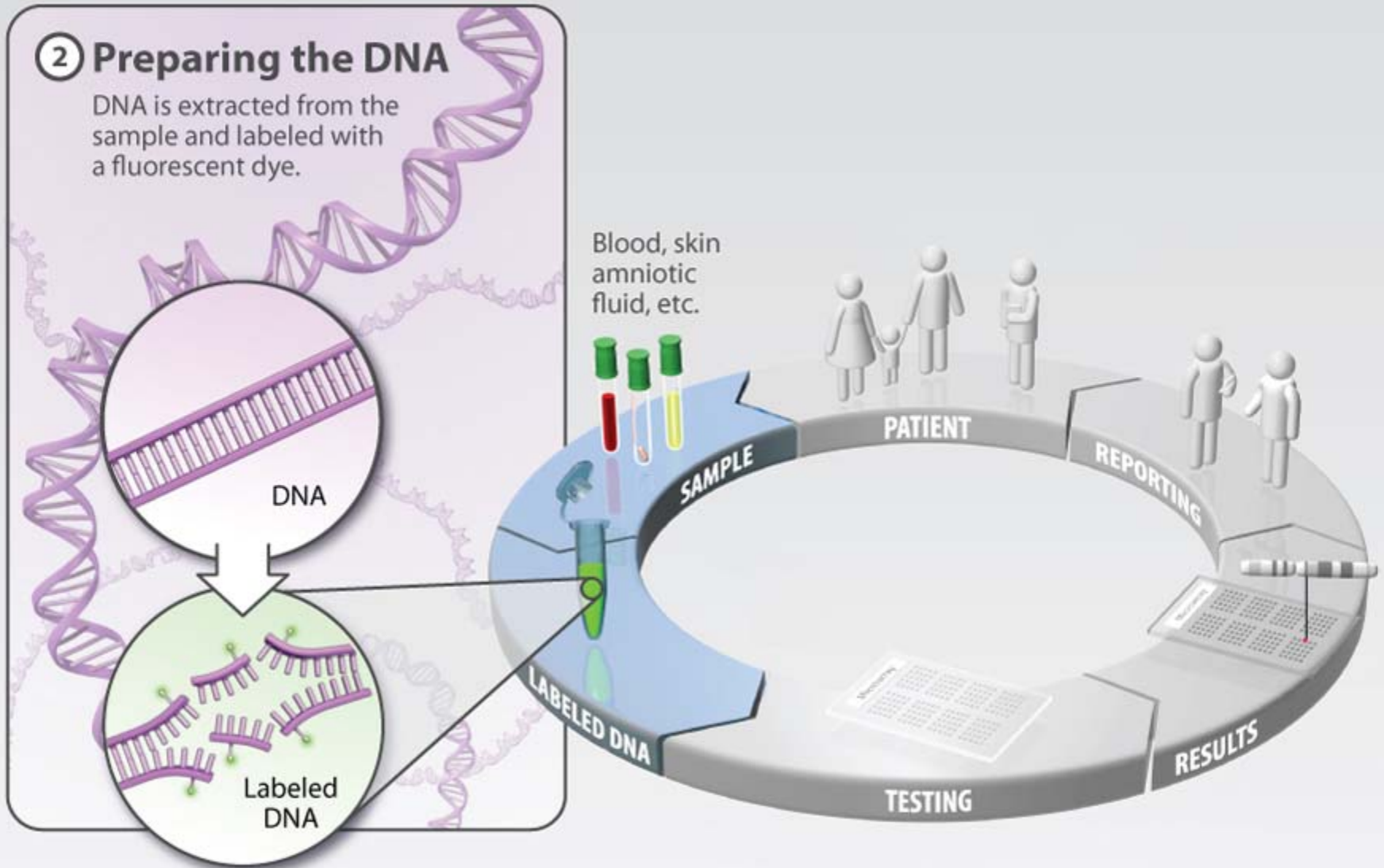
① Discussion

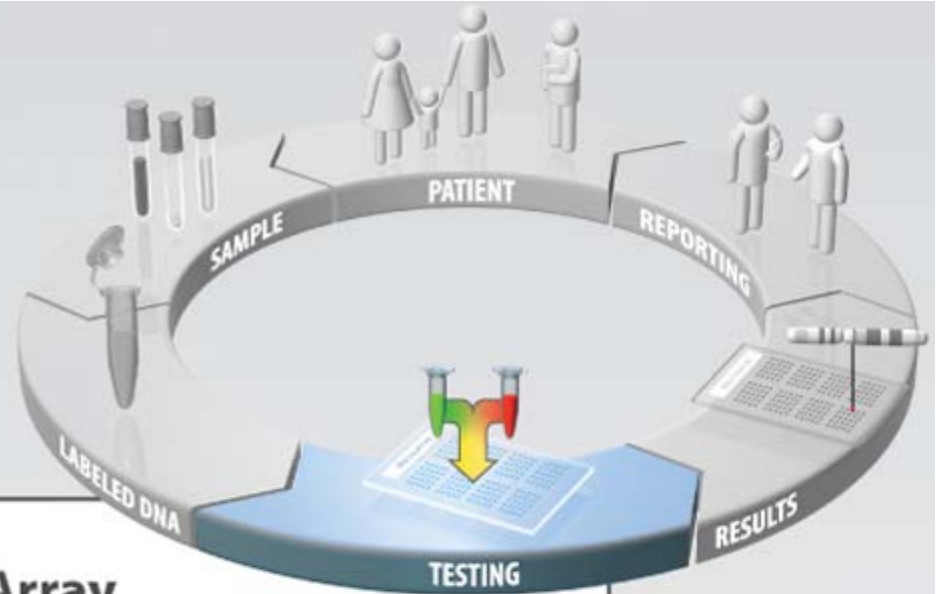
A healthcare professional discusses the benefits and limitations of array CGH testing with the patient and family.



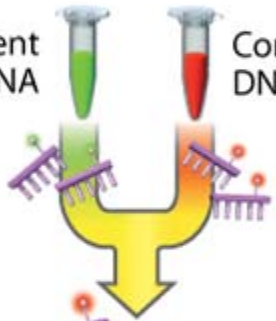
② Preparing the DNA

DNA is extracted from the sample and labeled with a fluorescent dye.





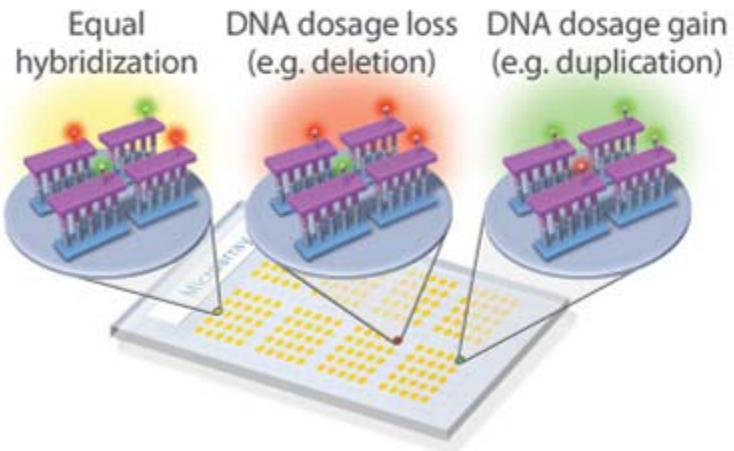
Patient DNA Control DNA



③ How Does Array CGH Testing Work?

Labeled patient and control DNA compete to attach or hybridize to the microarray slide.

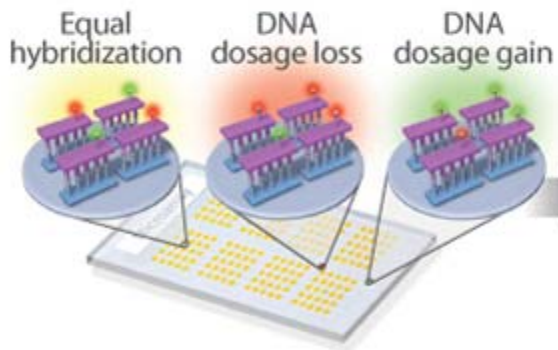
Hybridization





④ Results

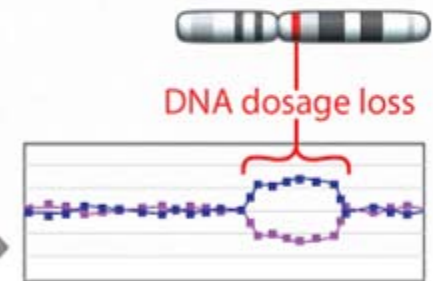
Computer software detects the fluorescent signals and creates a data plot.



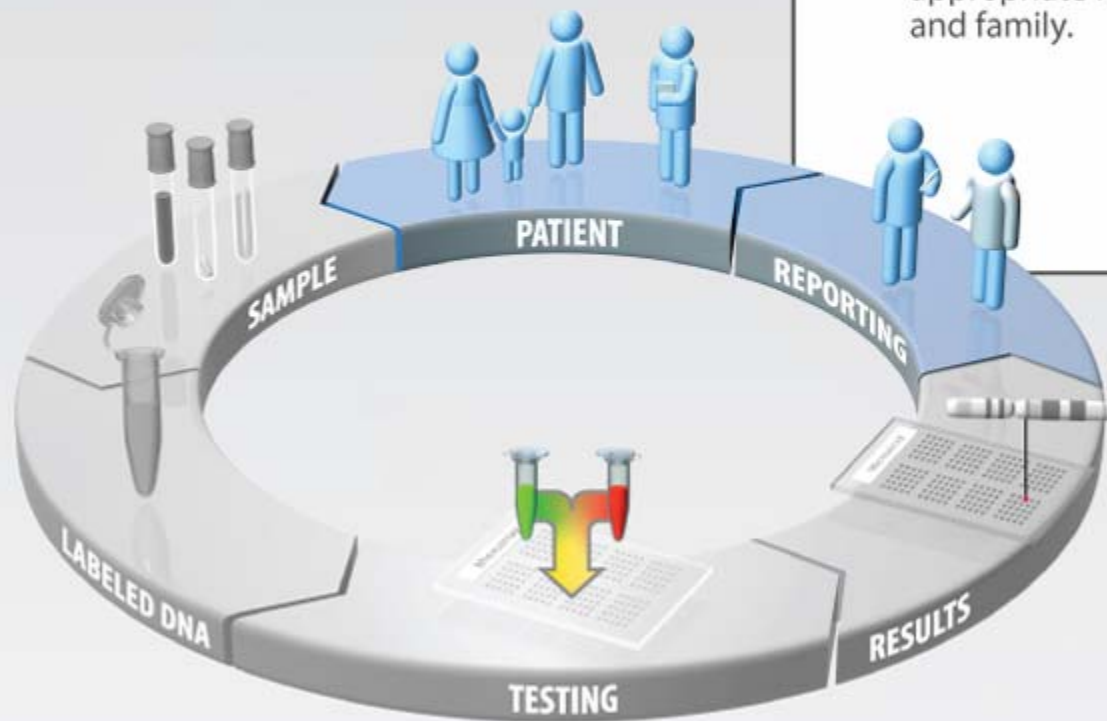
Array scanner



Software



Data plot of Chromosome 7



⑤ Reporting

Results are analyzed, interpreted, and reported by an ABMG-certified cytogeneticist. Test results are reported to the ordering healthcare professional who then discusses results and appropriate follow-up with the patient and family.

What is a Microarray?

Understanding CGH Technology

Short segments of DNA (such as bacterial artificial chromosomes, BACs) containing regions of interest are printed onto a glass slide.

