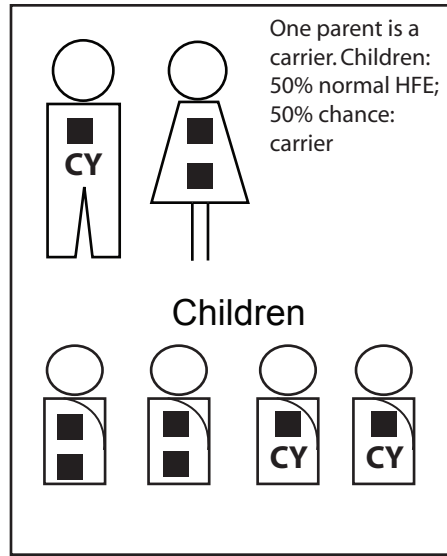


# GENETICS WORKSHEET: *HFE*

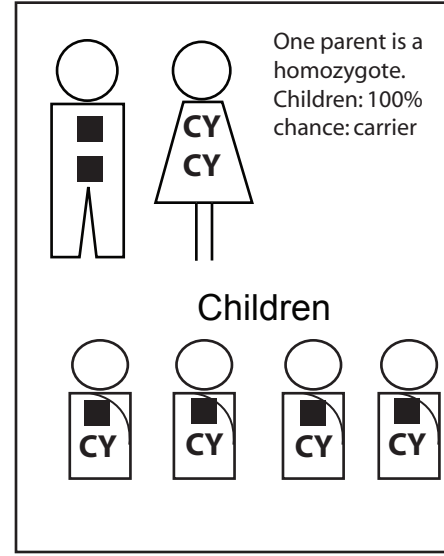
Everyone inherits two copies of *HFE* the gene that causes the classic form of hemochromatosis. People with mutated (changed from normal) copies of *HFE* will absorb more than normal amounts of iron from the diet. Over time, the extra iron builds up in vital organs. The body has no natural way to rid itself of this excess iron except through blood removal or iron chelation therapy with prescribed medicines.

People most at risk are those with two mutated copies of *HFE*. Presently the primary mutations known are C282Y and H63D. This worksheet can help you understand the inheritance patterns of *HFE* mutations in your family.

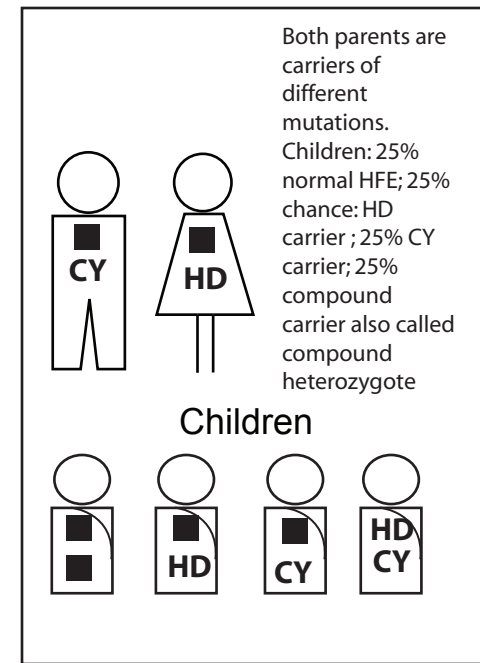
■ NORMAL *HFE* **CY=C282Y mutation** **HD=H63D mutation**



heterozygote: 9% of the Caucasian population  
or about 1 in 8–10

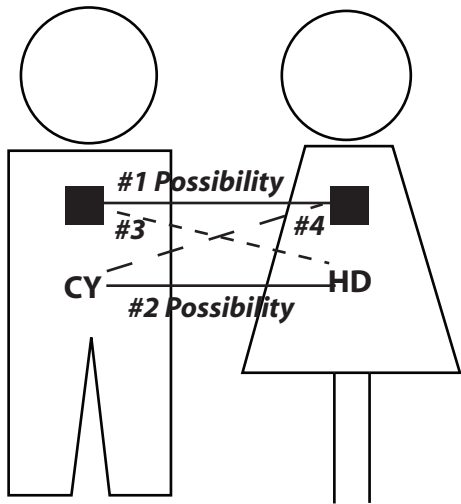


homozygote 0.5% of the Caucasian population

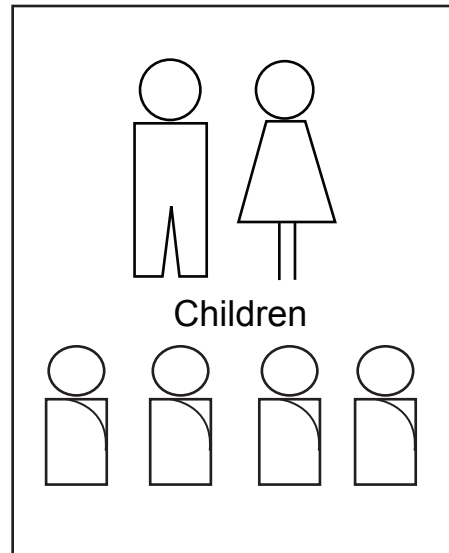


Compound heterozygotes  
2% of Caucasian population  
or one in 50

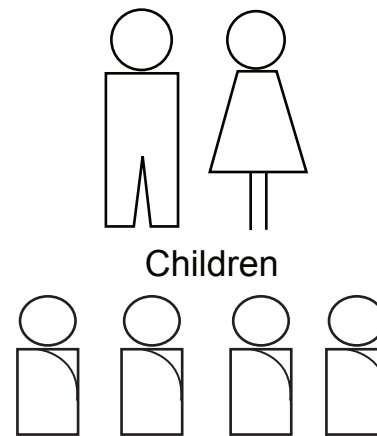
## FOUR copies create different POSSIBILITIES



Your Parents



You & Your Spouse



Your Children

