β-THAL STARTS IN THE GENES The role genes play in **beta-thalassemia (β-thal)**





MOLECULE which contains **IRON**

INCORRECT INSTRUCTIONS FROM THE HBB GENE RESULT IN REDUCED OR NO β-GLOBIN



WITHOUT ENOUGH β-GLOBIN, YOUR BODY CAN'T MAKE ENOUGH HEMOGLOBIN

> HEMOGLOBIN IS A PROTEIN IN YOUR RED BLOOD CELLS THAT CARRIES OXYGEN TO ALL PARTS OF YOUR BODY



INDIVIDUALS WITH TRANSFUSION-DEPENDENT β-THALASSEMIA (TDT) DEPEND ON TREATMENT WITH **REGULAR BLOOD TRANSFUSIONS** TO MAKE UP FOR THE **LACK OF HEALTHY ADULT HEMOGLOBIN**

IF TDT IS LEFT UNTREATED OR IS NOT TREATED PROPERLY, IT CAN LEAD TO:



It is important to talk to your doctor about managing your TDT. Be sure to ask them any questions you may have regarding your genes and TDT. You can also visit **LifeWithBetaThal.com** to learn more.