**Happy Blue Baby**

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**Preparation: A Special Baby Girl**

As homework and prior to the case discussion in class, get acquainted with the case about a little baby girl, born in 2008 in Toms River NJ. Although she was healthy and happy, soon after she was born, she showed cyanosis and became the subject of clinical and scientific research. Her case was reported in the New England Journal of Medicine in 2011.

* Read her story in a news article published in Patch, the local newspaper of Toms River (<https://patch.com/new-jersey/tomsriver/genetic-mutation-named-for-toms-river-may-shed-light-49e5fd1947>).
* Answer the following questions

Q1. What symptoms did the newborn baby girl have when she was brought to the Children's Hospital of Philadelphia?

Q2. What tests did the doctors do to diagnose the baby’s condition?

Q3. Based on the article what molecule(s) is/are affected? What was the diagnosis?

Q4. The doctors described a two-pronged problem in the affected molecule. What are the 2 problems?

The rest of the case will focus on understanding the molecular basis of why the baby girl had cyanosis.