Meet Anne[†]

a newborn presenting with colonic atresia

Ordering rapid whole genome sequencing as a first-tier genetic test can:



Prevent

- Multiple genetic tests
- Extended stays in the NICU
- Unnecessary suffering

Provide

- The correct diagnosis
- Improved treatment management
- Access to early interventions



X

Anne received surgery to repair the colonic atresia on day two of life and was transferred to the NICU following the procedure for post-operative monitoring and management. **While in the NICU, Anne experienced feeding intolerance, repeated infections, and was not recovering as expected.** Her doctors ordered a complete blood count (CBC) and flow cytometry as part of her workup.

Results of that testing showed hypogammaglobulinemia and decreased T-cell function but **didn't fully explain her symptoms.**

With no obvious answers, **her medical team ordered rapid whole genome sequencing (rWGS)**, **which revealed compound heterozygous variants in the TTC7A gene** associated with autosomal recessive TTC7A deficiency, also known as gastrointestinal defects and immunodeficiency syndrome 1 (GIDID1).



As a result of this testing, Anne's team made important and informed medical management

changes, including:

- IgG replacement
- Pentamidine for PJP prophylaxis
- Palivizumab to prevent respiratory syncytial virus (RSV)
- Feeding intolerance was determined to be due to her genetic condition vs. post-operative complications



The rapid genome test delivered actionable results within 5 days that helped determine the correct treatment plan for Anne and the path forward for her family and care team.

