

Disease

## NEUROG3 associated neonatal diabetes mellitus<sup>1, 2</sup>

Gene

### NEUROG3

|                                                 |                                                                                                                                                                                                                                                   |
|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Inheritance</b>                              | AR                                                                                                                                                                                                                                                |
| <b>Current Treatments</b>                       | Insulin                                                                                                                                                                                                                                           |
| <b>Evidence for Treatment</b>                   | expert opinion                                                                                                                                                                                                                                    |
| <b>Non-Molecular Testing Availability</b>       | yes                                                                                                                                                                                                                                               |
| <b>Non-Molecular Test</b>                       | glucose tolerance test, hemoglobin A1C, insulin level, glucose level <sup>3</sup>                                                                                                                                                                 |
| <b>Disease Frequency (per 100,000)</b>          | 0.87 <sup>1</sup>                                                                                                                                                                                                                                 |
| <b>Genes Included in Disease Frequency</b>      | ABCC8, GCK, INS, KCNJ11, SLC19A2, PDX1, GATA4, GATA6, PTF1A, EIF2AK3, GLIS3, RFX6, NEUROD1, NEUROG3, PAX4, WFS1, MNX1, NKX2-2, IER3IP1                                                                                                            |
| <b>Experimental / Investigational Therapies</b> | <a href="https://clinicaltrials.gov/ct2/results?cond=Neonatal+Diabetes&amp;term=&amp;cntry=&amp;state=&amp;city=&amp;dist=">https://clinicaltrials.gov/ct2/results?cond=Neonatal+Diabetes&amp;term=&amp;cntry=&amp;state=&amp;city=&amp;dist=</a> |

References

<sup>1</sup> <https://www.ncbi.nlm.nih.gov/pubmed/29406006>

<sup>2</sup> <https://www.ncbi.nlm.nih.gov/pubmed/28940958>

<sup>3</sup> <https://pubmed.ncbi.nlm.nih.gov/28940958/>