One Test, A Multitude of Rare Disease Diagnoses



- As of October 2020, RCIGM has reported a confirmed genetic diagnoses in 630 children. Of those 630 children, 540 were unique one gene-disease associations. The others were recurrent genetic diagnoses seen in ≥2 patients.
- WGS of unselected patient populations (NICU, PICU) has revealed expanded phenotypes for previously wellcharacterized genetic conditions and highlighted the potential for WGS for diagnosis of rare disease

	Global Prevalence ⁺	RCHSD Prevalence*	RCIGM Rare Disease Prevalence
Kabuki Syndrome	1-9 / 100,000	1 / 56,000	1 / 140
CHARGE Syndrome	1-9 / 100,000	1 / 56,000	1 / 170
KCNQ2-Related Epileptic Encephalopathy	<1 / 1,000,000	1 / 29,000#	1 / 250

^{*} According to Orphanet database

^{*} Based on unrefined/preliminary EMR search for primary condition or ICD-10

[#] RCHSD prevalence for "epileptic encephalopathy"