Supplemental Table: Main findings of each arm of the study.

Arm of Study	Main Findings
Unrelated cohort (N=781)	 424 (77.7%) FECD cases were CTG18.1exp+ 18 (7.7%) controls were CTG18.1exp+ A diagnosis of FECD associated with CTG18.1 expansion status (p=2.48x10⁻⁴⁴) and CTG18.1_L (p=3.38x10⁻⁴⁶) CTG18.1exp+ status associated with FECD severity (p=5.62x10⁻⁷) FECD severity associated with CTG18.1_L among FECD cases (p=8.8x10⁻⁴)
Family cohort (N=112 families; 331 subjects)	 146 (67.0%) FECD cases were CTG18.1exp+ 27 (23.9%) controls were CTG18.1exp+ A diagnosis of FECD associated with CTG18.1 expansion status (p=6.23x10⁻¹³) and log₁₀ (CTG18.1_L) (p=8.0x10⁻⁶) Penetrance of FECD associated with CTG18.1exp+ was 85.4%
CTG18.1exp+ families (N=87 families; 249 subjects)	 Penetrance of FECD increased by age quartile (range: 44.4-86.2%) No sex difference in penetrance of FECD (p=0.08)
Parent-offspring relationships from CTG18.1exp+ families (N=62 families; 106 offspring)	 CTG18.1 expansion transmitted to offspring in 62 (58.5%) parent-offspring relationships 41 (66.1%) CTG18.1exp+ offspring exhibited the FECD phenotype No significant difference in transmission of the expanded repeat by parental sex (p=0.62) 8 (18.2%) offspring who did not inherit the CTG18.1 expansion exhibited the FECD phenotype
Intergenerational instability among CTG18.1exp+ offspring (N=62)	 8 (12.9%) had change in CTG18.1_L ≥50 repeats 3 (4.8%) expansions of 1,900 repeats 5 (8.1%) contractions (range: -900 to -1,900 repeats)