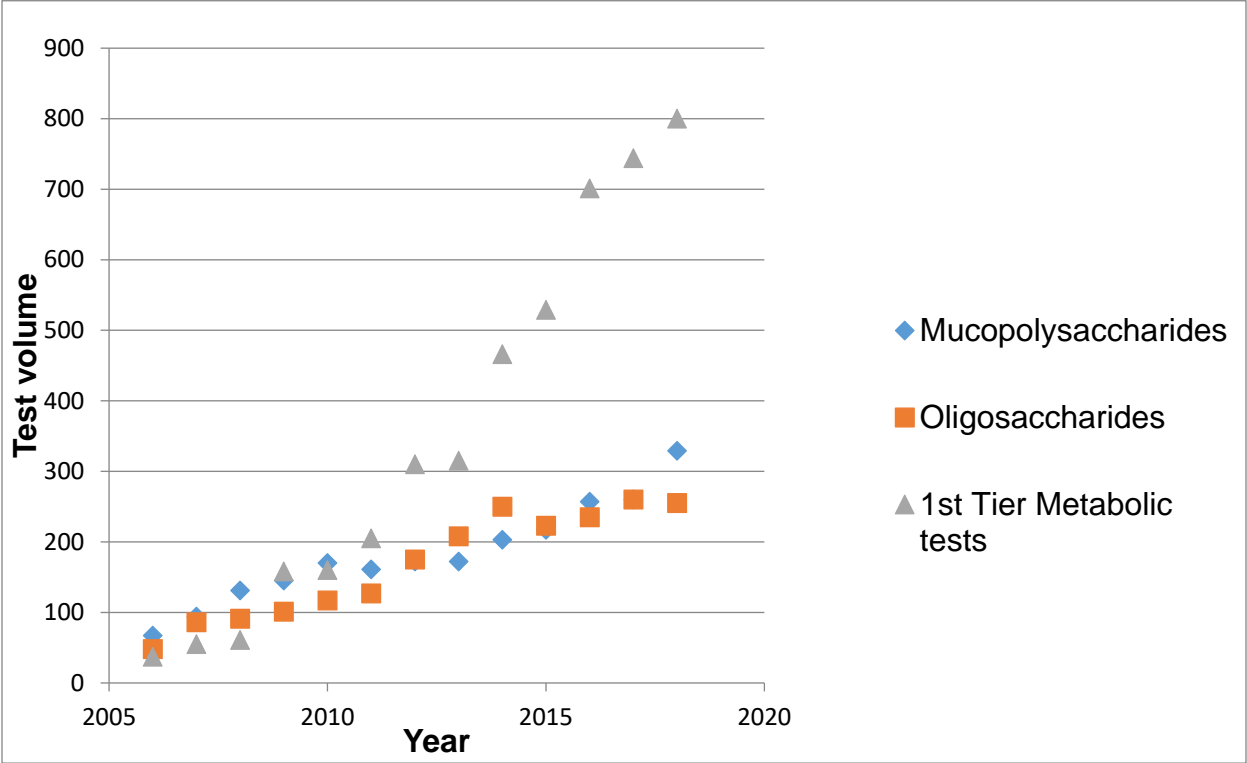


Appendix 1: First Tier Metabolic Test volume 2006-2019 in comparison to more specialized metabolic tests



Legend: First Tier metabolic tests: plasma amino acids, urine organic acids, blood spot acylcarnitines, urine purines, pyrimidines and creatine metabolites.