

Cohort-level
sample QC

Stratum-level
sample QC

a

21 centers and single genotyping platform (N = 15,072)

1,009 excluded (excess
missingness or heterozygosity,
relatedness, sex discordance)

14,063 participants merged into a single stratum
for phasing and imputation

658 excluded (relatedness,
population outliers)

878 excluded
(missing EDSS)

12,584 cases included in the discovery population

b

Cohort-level
sample QC

Stratum-level
sample QC

9 centers and various genotyping platforms (N = 29,257)

672 excluded (excess
missingness or heterozygosity,
relatedness, sex discordance)

28,585 participants grouped into four strata
for phasing and imputation

1,798 excluded (relatedness,
population outliers)

16,917 excluded (control
status, missing EDSS, overlap
with discovery)

9,805 cases included in the replication population