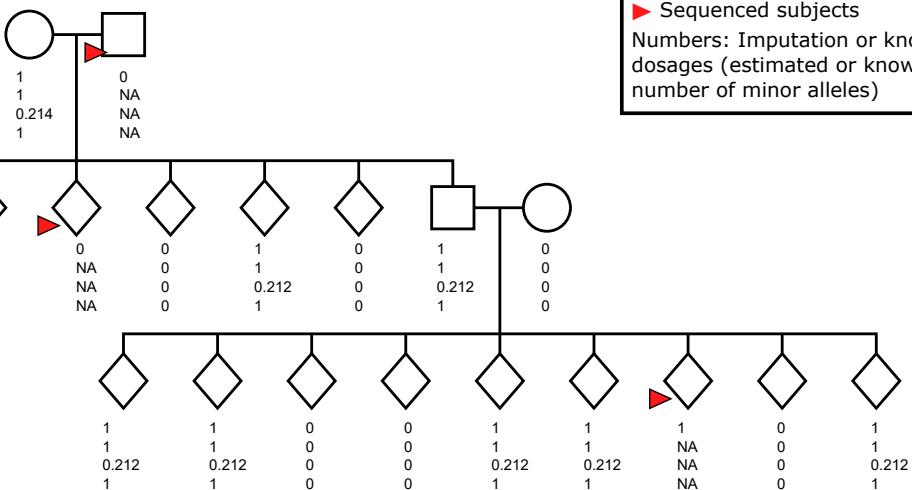


A

True Genotypes  
GIGI  
duoHMM+minimac  
Ped\_Pop

True Genotypes  
GIGI  
duoHMM+minimac  
Ped\_Pop

True Genotypes  
GIGI  
duoHMM+minimac  
Ped\_Pop



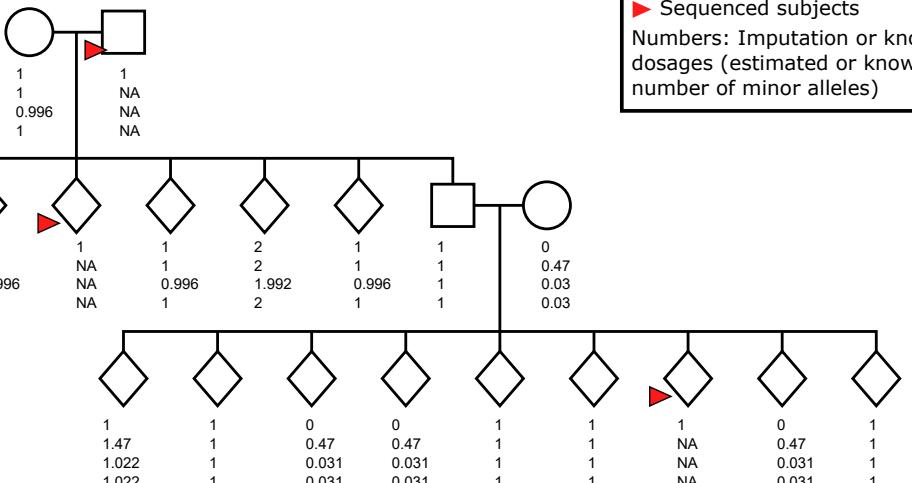
► Sequenced subjects  
Numbers: Imputation or known dosages (estimated or known number of minor alleles)

B

True Genotypes  
GIGI  
duoHMM+minimac  
Ped\_Pop

True Genotypes  
GIGI  
duoHMM+minimac  
Ped\_Pop

True Genotypes  
GIGI  
duoHMM+minimac  
Ped\_Pop



► Sequenced subjects  
Numbers: Imputation or known dosages (estimated or known number of minor alleles)

**Supplemental Figure S4:** GIGI, duoHMM+minimac, and Ped\_Pop performance for imputing two SNPs: A) MAF=0.006 B) MAF=0.46. The pedigree size is 24 subjects. Five subjects represented by red triangles were fully observed (no missing genotypes). The numbers are the known or estimated numbers of minor alleles, i.e. dosages. The known genotypes/dosages are in the first row. GIGI's dosages are in the second row. duoHMM+minimac's dosages are in the third row. Ped\_Pop's dosages are in the fourth row.