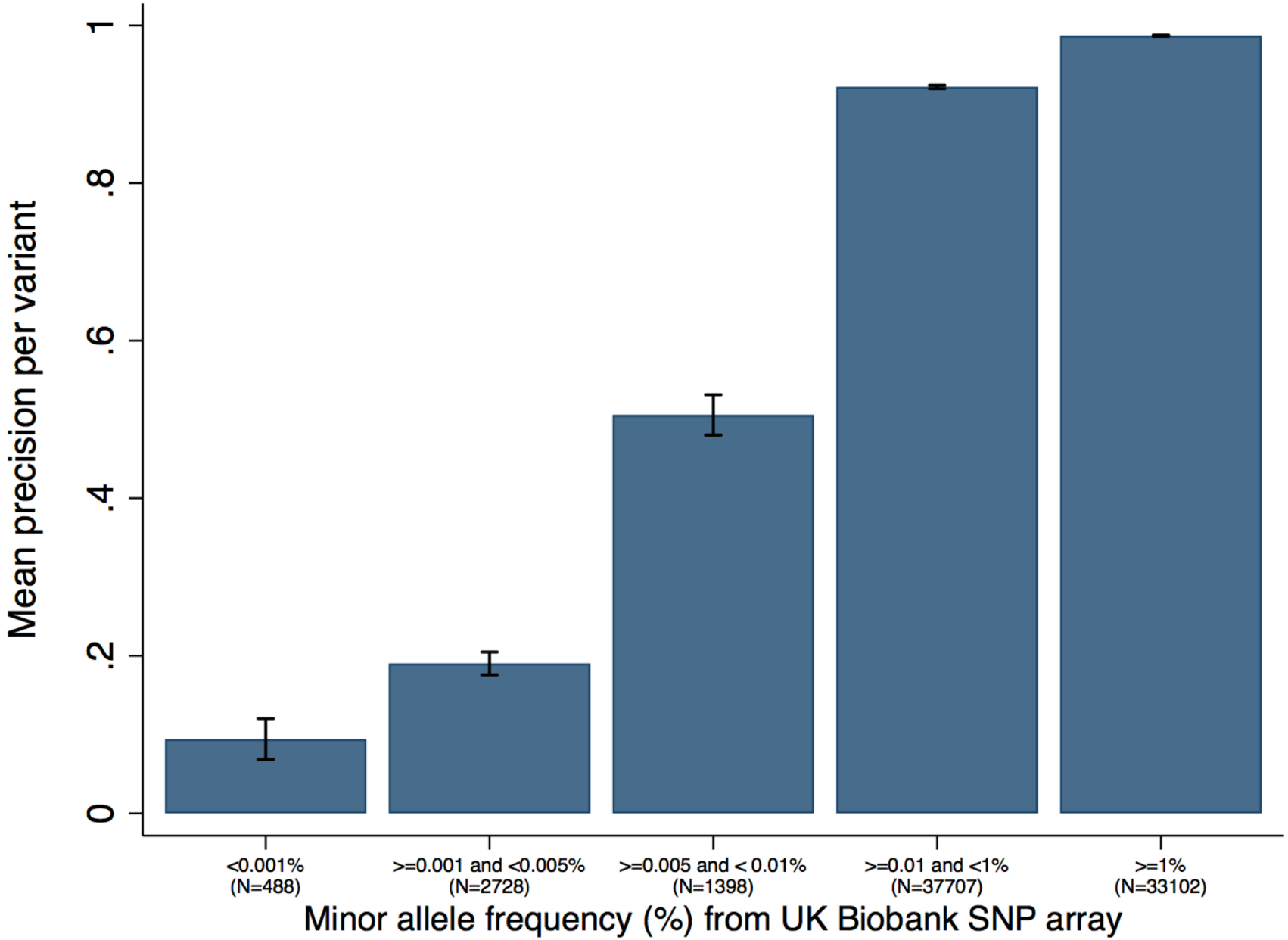
Supplementary Figure 1. Representative 2x2 tables for a common, rare and very variant in UKB.

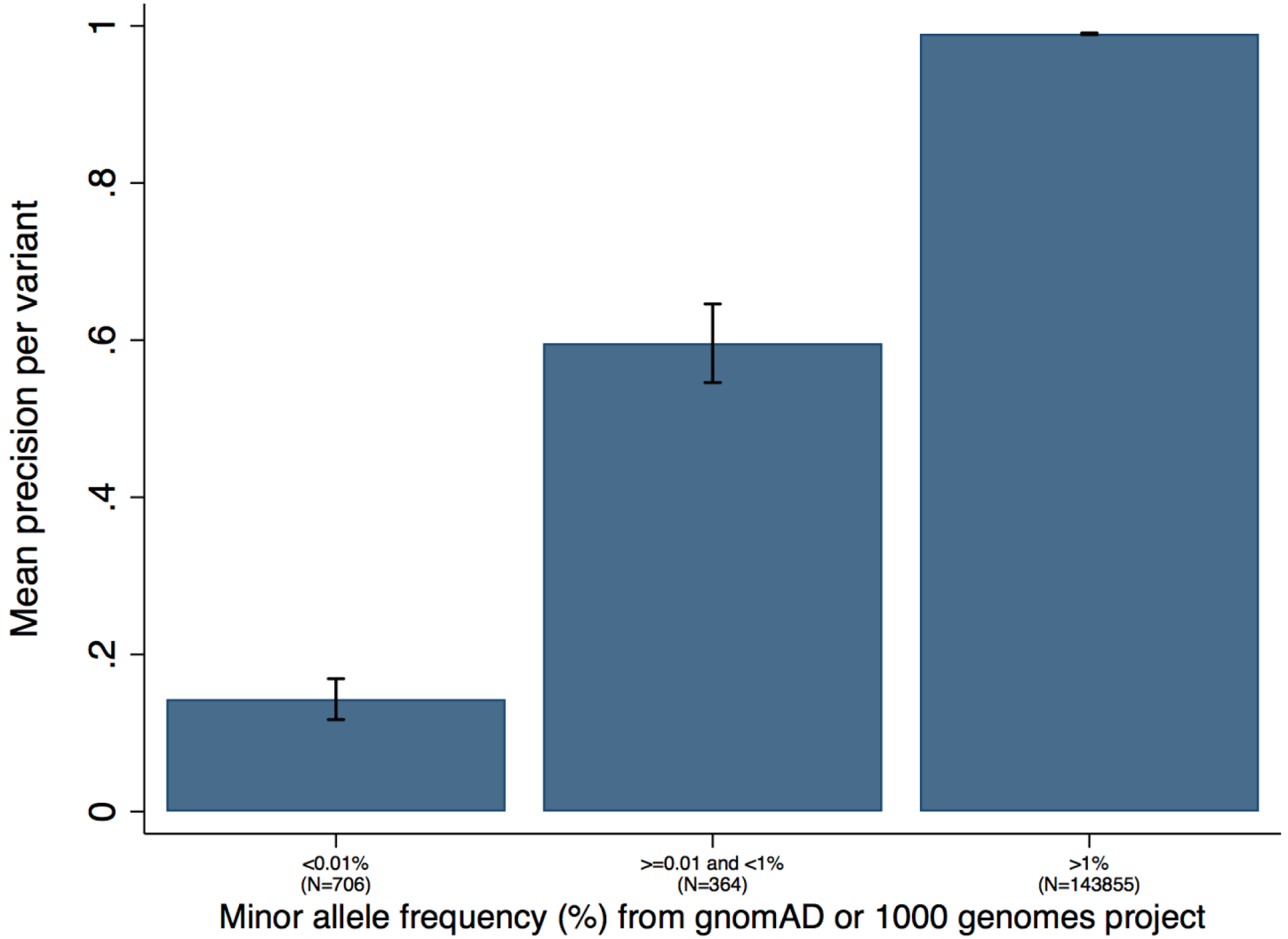
REFERENCE STANDARD (SEQUENCING)

INDEX TEST (SNP-CHIP)	Common variant (UKB MAF = 11%)		Rare variant (UKB MAF = 0.1%)		Very rare variant (UKB MAF = 0.0007%)	
	Variant positive	Variant negative	Variant positive	Variant negative	Variant positive	Variant negative
Variant positive	9109	97	130	1	0	1
Variant negative	18	36505	0	45718	0	45870

Supplementary Figure 2. Precision of UKB BiLEVE SNP-chip for detecting variants at different population frequencies.



Supplementary Figure 3. Precision of PGP SNP-chips for detecting variants at different population frequencies.



Supplementary Figure 4. STARD diagram to report flow of participants with a pathogenic BRCA variant on the UKB BiLEVE® chip compared with sequencing.