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| **Table S3**: Sample and SNP quality control summary |
| **Sample exclusion reason** | **N samples****excluded** | **N eligible****samples** | **SNP exclusion reason** | **N SNPs****excluded** | **N eligible****SNPs** |
| Genotyped samples |  | 13510 | SNPs on iCOGS |  | 211155 |
| Ineligible | 578 |  | Y chromosome | 79 |  |
| Incorrect gender | 50 |  | Call rate <95% | 4152 |  |
| Call rate <95% | 393 |  | Monomorphic | 3833 |  |
| Excess heterozygosity (P<10-6) | 38 |  | Hardy-Weinberg equilibrium failures (P<10-7) | 1827 |  |
| Non-European ancestry | 209 |  | High discordance rate among duplicates | 22 |  |
| Duplicates (including cryptic) | 373 |  |  |  |  |
| Genotype inconsistencies iCOGS vs previous genotyping | 164 |  |  |  |  |
|  |  |  |  |  |  |
| Total |  | 11705 |  |  | 201242 |