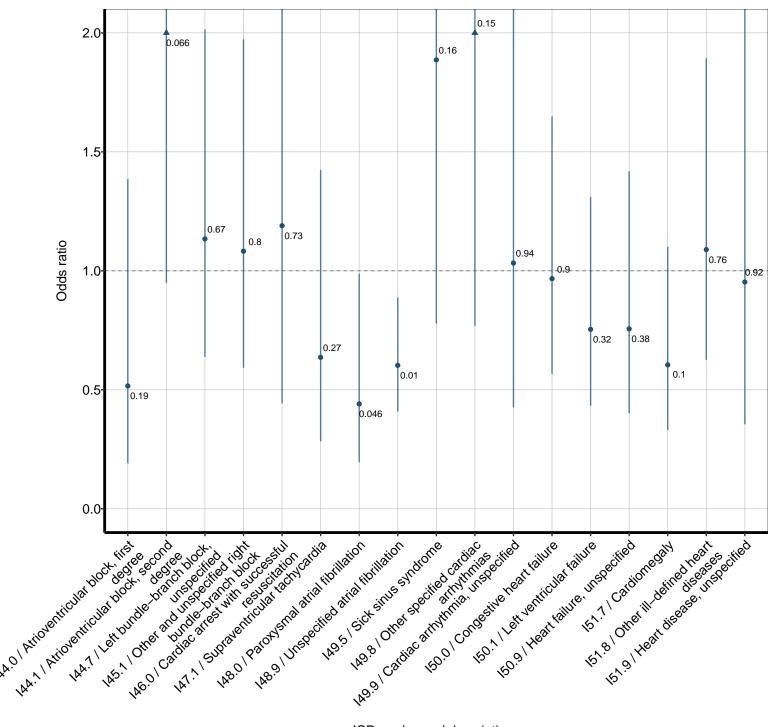Association between the genotype and ICD subcategories