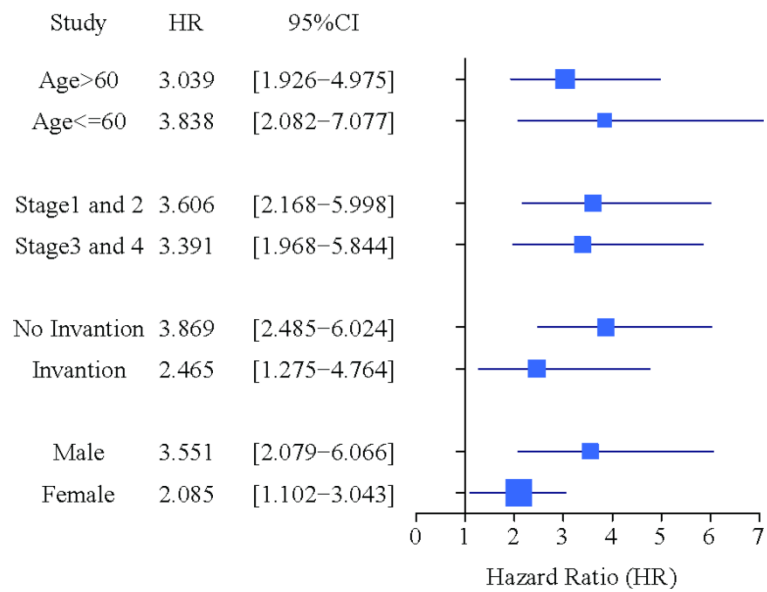


## Supplementary Figure



**Supplementary Figure 1. Subgroup and sensitivity analysis for IPSHCC.** We analyzed sensitivity according to age, gender, stage, and invasion to explore model stability for different clinical subgroups. IPSHCC was significant for all subgroups.