**Supplementary Table S1 – P-scores for overall survival (OS)**

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**Supplementary Table S2 - Direct and indirect comparisons for progression-free survival**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Nivolumab + cabozantinib | Nivolumab + ipilimumab | Pembrolizumab + axitinib | Atezolizumab + bevacizumab | Avelumab + axitinib | Sunitinib |
| Nivolumab + cabozantinib |  | 1.45(0.69 – 3.07) | 1.29(0.55 – 3.01) | 1.24(0.60 – 2.54) | 1.36(0.60 – 3.07) | **2.38****(1.33 – 4.27)** |
| Nivolumab + ipilimumab | 0.69(0.33 – 1.46) |  | 0.89(0.41 – 1.92) | 0.85(0.45 – 1.60) | 0.93(0.45 – 1.95) | **1.64****(1.03 – 2.62)** |
| Pembrolizumab + axitinib | 0.78(0.33 – 1.82) | 1.13(0.52 – 2.46) |  | 0.96(0.46 - 2.04) | 1,06(0.46 – 2.45) | **1.85****(1.00 – 3.44)** |
| Atezolizumab + bevacizumab | 0.81(0.39 – 1.66) | 1.17(0.62 – 2.20) | 1.04(0.49 – 2.20) |  | 1.10(0.54 – 2.23) | **1.92****(1.26 – 2.93)** |
| Avelumab + axitinib | 0.74(0.33 – 1.67) | 1.07(0.51 – 2.24) | 0.95(0.41 – 2.20) | 0.91(0.45 – 1.85) |  | **1.75****(0.99 – 3.10)** |
| Sunitinib | **0.42****(0.23 – 0.75)** | **0.61****(0.38 – 0.97)** | **0.54****(0.29 - 1.00)** | **0.52****(0.34 – 0.79)** | **0.57****(0.32 – 1.01)** |  |

Each cell contains the Hazard Ratio (95% confidence interval) for treatment A (column) vs treatment B (row). Direct comparisons are bold.

**Supplementary Table S3– P-scores for progression-free survival (PFS)**

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**Supplementary Table S4 - Direct and indirect comparisons for objective response rate**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Nivolumab + cabozantinib | Nivolumab + ipilimumab | Pembrolizumab + axitinib | Atezolizumab + bevacizumab | Avelumab + axitinib | Sunitinib |
| Nivolumab + cabozantinib |  | 1.15(0.33 – 4.00) | 0.69(0.19 – 2.49) | 1.34(0.37 – 4.89) | 0.72(0.20 – 2.67) | **0.22****(0.08 – 0.61)** |
| Nivolumab + ipilimumab | 0.87(0.25 – 3.03) |  | 0.60 (0.20 – 1.79) | 1.17(0.39 – 3.52) | 0.63(0.20 – 1.93) | **0.19****(0.09 – 0.41)** |
| Pembrolizumab + axitinib | 1.45(0.40 – 5.22) | 1.66(0.56 – 4.95) |  | 1.94(0.62 – 6.09) | 1.05(0.33 – 3.33) | **0.32****(0.14 – 0.71)** |
| Atezolizumab + bevacizumab | 0.75(0.20 – 2.72) | 0.86(0.28 – 2.59) | 0.52(0.16 – 1.62) |  | 0.54(0.17 – 1.74) | **0.17****(0.07 – 0.38)** |
| Avelumab + axitinib | 1.38(0.37 – 5.13) | 1.59(0.52 – 4.88) | 0.96(0.30 – 3.05) | 1.86(0.57 – 6.00) |  | **0.31****(0.13 – 0.71)** |
| Sunitinib | **4.50****(1.65 – 12.27)** | **5.17****(2.46 – 10.86)** | **3.11****(1.40 – 6.91)** | **6.03****(2.66 – 13.67)** | **3.25****(1.40 – 7.53)** |  |

Each cell contains the Odds Ratio (95% confidence interval) for treatment A (column) vs treatment B (row). Direct comparisons are bold.

**Supplementary Table S5 – P-scores for objective response rate (ORR)**

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