**Appendix**

**Table S1.** Relationship between BB and Hypoglycemia in Heart Failure Subgroups

|  |  |  |
| --- | --- | --- |
|   | **No Heart Failure**  | **Heart Failure**  |
|   | **OR**  | **95% CI**  | **p-value**  | **OR**  | **95% CI**  | **p-value**  |
| **Odds Ratio for Glucose <3.9 mmol/L (70 mg/dl) within 24 hours**  |
| Unadjusted model Carvedilol vs. none SBB vs. none SBB vs. Carvedilol  |  8.48 7.42 0.88  |  6.18-11.6 5.86-9.40 0.60-1.27  |  <0.0001 <0.0001 0.48  |  0.77 0.69 0.90  |  0.53-1.10 0.45-1.06 0.60-1.34  |  0.15 0.09 0.61  |
| Adjusted Model Carvedilol vs. none SBB vs. none SBB vs. Carvedilol  | 2.34 3.80 1.20  | 1.51-3.63 1.97-3.97 0.72-1.97  | <0.0001 <0.0001 0.49  | 0.81 0.71 0.88  | 0.49-1.36 0.39-1.30 0.51-1.51  | 0.43 0.27 0.64 |
| **Odds Ratio for Glucose <3.9 mmol/L (70 mg/dl) overall**  |
| Unadjusted Model Carvedilol vs. none SBB vs. none SBB vs. Carvedilol  |  24.7 26.9 1.09  |  17.9-34.1 21.3-34.0 0.74-1.61  |  <0.0001 <0.0001 0.66  |  1.09 0.87 0.80  |  0.85-1.41 0.65-1.17 0.61-1.03  |  0.50 0.35 0.08  |
| Adjusted Model Carvedilol vs. none SBB vs. none SBB vs. Carvedilol  |  3.82 5.06 1.32  |  2.60-5.61 3.75-6.81 0.85-2.06  |  <0.0001 <0.0001 0.21  |  1.40 1.01 0.73  |  0.89-2.19 0.61-1.69 0.46-1.14  |  0.15 0.96 0.17  |
| **Odds Ratio for Glucose <2.2 mmol/L (40 mg/dl) overall**  |
| Unadjusted Model Carvedilol vs. none SBB vs. none SBB vs. Carvedilol  |  10.8 5.08 0.47  |  6.78-17.1 3.26-7.91 0.26-0.85  |  <0.0001 <0.0001 0.01  |  0.93 1.30 1.40  |  0.47-1.82 0.64-2.65 0.75-2.63  |  0.83 0.47 0.29  |
| Adjusted Model Carvedilol vs. none SBB vs. none SBB vs. Carvedilol  |  2.77 1.57 0.57  |  1.55-4.97 0.85-2.91 0.27-1.21  |  0.0006 0.15 0.14  | 0.85 1.65 1.94  | 0.34-2.13 0.66-4.13 0.85-4.46  | 0.73 0.28 0.12  |

All adjusted models includes age, gender, race, body mass index\*, surgery service, admission glucose\*, admission creatinine\*, basal insulin, cardiovascular service, statin, aspirin, ACE/ARB. \*log transformed values.