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| Table J-27. Studies evaluating independent predictive value of BNP for the outcome of cardiovascular mortality in patients with stable heart failure | | | | | | | | |
| **Author**  **Year** | **Study Design**  **Population** | **n**  **Mean Age (SD)**  **% male** | **BNP Levels (pg/ml)** | **Prognostic Markers** | **Followup**  **Outcomes**  **(#events, #risk)** | **Model** | **Adjusted/Non-**  **adjusted**  **Covariates** | **Measure(s) of**  **Risk**  **(95% CI,)** |
| Vrtovec,80  2002 | Cohort  Patients with advanced HF | n=241  mean age:  67y(14)  59% male | ADM mean:  Prolonged QTc = 786 (321)  Normal QTc = 733 (274)  D/C mean: NR  Cutpoint: >1,000 | BNP >1,000, QTc >440 ms, age, male, ischemic cause, NYHA IV, heart rate, SBP, DBP, LVEF, LVEDD, sodium, serum creatinine, inotropes, diuretics, digoxin, ACE inhibitors, betablockers | 6m  Sudden cardiac death  (18, 241) | Multivariable cox proportional hazard regression | QTc >440 ms, age, male, ischemic cause, NYHA IV, heart rate, SBP, DBP, LVEF, LVEDD, sodium, serum creatinine, inotropes, diuretics, digoxin, ACE inhibitors, betablockers | HR=1.76 (1.01-3.07) |
| 6m  Pump failure mortality  (24, 241) | Multivariable cox proportional hazard regression | QTc >440 ms, age, male, ischemic cause, NYHA IV, heart rate, SBP, DBP, LVEF, LVEDD, sodium, serum creatinine, inotropes, diuretics, digoxin, ACE inhibitors, betablockers | HR=3.78 (1.63 -8.78) |
| Vrtovec,86  2008 | Case-series  Patients with HF & LVEF <30% with cholesterol level >150 mg/DL, NYHA class III/IV for min 2m | n=110  mean age:  63y(13)  61% male | ADM mean:  664 (220)  D/C mean: NR  Cutpoint: >700 | BNP, absence of statin therapy, high QTVI, HF of ischemic cause, age >60y | 6m  Sudden cardiac death  (15, 110) | Multivariable cox proportional hazard regression | Absence of statin therapy, high QTVI, HF of ischemic cause, age >60y | HR=1.03 (0.65-1.32) |

**Abbreviations:** ADM = admission; ACE = angiotensin converting enzyme; BMI = body mass index; BNP = B-type natriuretic peptide; BP = blood pressure; 95% CI, = confidence interval; DBP = diastolic blood pressure; D/C = discharge; HF = heart failure; HR = hazard ratio; IL-6 = interleukin-6; LBBB = left bundle branch block; LVEDD = left ventricular end diastolic diameter; LVEF = left ventricular ejection fraction; m = month(s); mg/DL = milligram per deciliter; n=number; NR = not reported; NYHA = New York Heart Association; pg/mL = picograms per millimeter; QTVI = QT variability index; SBP = systolic blood pressure