10059

Predictors associated with 3-year adverse clinical outcomes following Successful PCI for left main disease with Drug-eluting Stents

¹Soonchunhyang University Cheonan Hosptial ²Korean University Guro Hopspital Sang-Ho Park¹, Seung-Woon Rha², Byoung-Geol Choi², Dong-Joo Oh²

Background: There is limited evidence regarding predictors associated with long-term clinical outcomes of patients with left main disease successfully treated with drug-eluting stents (DESs). Methods: We investigated the 221 patients (pts) during 3-year follow-up period following successful PCI for left main disease with DESs from Apr 2004 to Apr 2012. Results: The incidence of cardiac death was 9.5% (21 of 221 pts) during 3-year follow-up period and any MI 5.9% (13 of 221), TLR 10.1% (26 of 221), stent thrombosis 1.9% (5/221), ALL-MACEs 33% (73 of 221), and TLR-MACEs 21.7% (48 of 221). Multivariate logistic regression was used to identify predictors affecting 3-year CD, any MI, TLR, ALL-MACEs and TLR-MACEs (table). Conclusions: In our study, the presentation with AMI at admission was associated with hard adverse clinical outcomes in left main disease during 3-year follow-up period. IVUS use during PCI for left main disease can lower the incidence of the adverse clinical outcomes and then, statin and triple antiplatelet medication can be useful for reduction of adverse clinical events

| Independent clinical variable; Cardiac death | P value- | OR | 95% CI* |
|--|----------|--------|--------------|
| use of IVUS- | 0.013- | 0.181- | 0.047-0.697- |
| Statin medication- | 0.003- | 0.127- | 0.033-0.495 |
| presentation with AMI at admission- | <0.001- | 9.971 | 2.733-36.383 |
| Independent clinical variable; any MI- | P value | OR | 95% CI^- |
| use of triple antiplatelet agent- | 0.016- | 0.172- | 0.041-0.723- |
| presentation with AMI at admission- | 0.023- | 4.895- | 1.242-19.294 |
| Independent clinical variable; TLR- | P value | OR- | 95% CI* |
| use of IVUS | 0.032- | 0.372 | 0.151-0.919 |
| Independent clinical variable; ALL-MACE- | P value- | OR- | 95% CI*/ |
| use of IVUS | 0.005 | 0.384 | 0.196-0.754 |
| presentation with AMI at admission- | <0.001- | 5.607 | 2.665-11.797 |
| Independent clinical variable; TLR-MACE- | P value- | OR- | 95% CI* |
| use of IVUS | 0.004- | 0.321 | 0.149-0.695 |
| presentation with AMI at admission- | < 0.001 | 4.456- | 1.984-10.009 |
| Statin medication- | 0.077- | 0.471 | 0.204-1.085 |

* Multivariate logistic regression adjusted by gender, age, hypertension, diabetes, hyperlipidemia, the presentation with acute myocantial influence (AMD) at admission, chronic kindey disease, dialysis exceptions called peripheral arterial disease, current smoker, current alsobobies, prior myocantial influences (MI), prior PCI, prior CABO, the use of intravascular ultrassound (IVUS), lesion calcification, statin,