**Figure legends**

**Figure 1. Optimal medications after index procedures.**

Rates and documented changes in OMT over the five years follow-up of the SYNTAX trial. P values show the comparison of the rate of OMT at the discharge and 5 years in each region.

Abbreviations: N-A, North America, E-E, Eastern Europe; N-E, Northern Europe; S-E, Southern Europe; W-E, Western Europe; OMT: optimal medical therapy; NS, not significant.

**Figure 2. non-adjusted and adjusted survival curve of 5 regions in SYNTAXES trial.**

Figure 2A (upper) showed cumulative incidence of mortality (non-adjusted). Figure 2B (lower) showed adjusted survival curve of 5 regions. In each figure, hazard ratios, confidence interval, and p value of 10-year mortality of each region against W-E using Cox regression analysis were presented on left upper side.

Preprocedural characteristics which were used to adjustment of the survival curves in the whole population are as follows;

age, sex, medically treated diabetes, current smokers, peripheral vascular disease, chronic obstructive pulmonary disease, chronic kidney disease (defined as creatinine clearance <60 mL/min/1.73m2), left ventricular ejection fraction (categorized less than 50% or not), disease type (left main coronary artery disease or three-vessel disease), and anatomical SYNTAX score. The number of participants who could not be included in the analysis due to missing values in the whole population was 176 out of 1800 participants (9.8%).

Abbreviations: N-A, North America, E-E, Eastern Europe; N-E, Northern Europe; S-E, Southern Europe; W-E, Western Europe

**Figure 3. non-adjusted and adjusted survival curves of 5 regions in each treatment arm.**

Figure 3A (upper) showed non-adjusted cumulative incidence of mortality (left) and adjusted cumulative incidence of mortality (right) of 5 regions in PCI arm. Figure 3B (lower) showed non-adjusted cumulative incidence of mortality (left) and adjusted cumulative incidence of mortality (right) in 5 regions in CABG arm. In each figure, hazard ratios, confidence interval, and p value of 10-year mortality of each region against W-E using Cox regression analysis were presented in the middle-lower.

Procedural characteristics which were used to adjustment of the survival curves in each revascularization in addition to the factors which was used to adjust the whole population.

PCI: Emergent or urgent procedure, IABP use, number of stents, total stent length, number of lesions, bifurcation lesion, total occlusion, heavy calcification, residual SYNTAX score after the index procedure.

CABG: Emergent or urgent procedure, operation time, IABP use, off-pump bypass surgery, number of arterial conduits, bilateral IMA use, complete revascularization, EuroSCORE.

The number of participants who could not be included in the analysis due to missing values is as follows; PCI arm, 85 out of 903 participants (9.4%), CABG arm, 134 out of 897 participants (14.9%).

Abbreviations: N-A, North America, E-E, Eastern Europe; N-E, Northern Europe; S-E, Southern Europe; W-E, Western Europe

**Figure 4. Bubble chart and forest plot of the relation of observed 10-year mortality between revascularization strategy and regions.**

Figure 4A (left side) showed bubble chart of relations between unadjusted 10-year mortality per revascularization strategy and the region. The size of the bubble reflects the patient number of each region. Error bar reflects 95% CI of mortality of PCI or CABG in each group. (right side) showed forest plot presenting hazard ratio of PCI arm against CABG arm in the five 5 regions. P for interaction between revascularization and region was 0.728.

Figure 4B (left side) showed bubble chart of relations between adjusted 10-year mortality per revascularization strategy and the region. (right side) showed forest plot presenting hazard ratio of PCI arm against CABG arm in the five 5 regions. P for interaction between revascularization and region was 0.302.

Abbreviations: PCI, percutaneous coronary intervention; CABG, coronary artery bypass graft; E-E, Eastern Europe; N-E, Northern Europe; S-E, Southern Europe; W-E, Western Europe; N-A, North America; OR, odds ratio; CI, confidence interval.