Table 1: Clinical characteristics

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Variable | Missing data from total 20,642 | No EPD Use in PCI (17,730) | EPD use in PCI  (2,912) | P-value |
| Median Age (IQR) | 0 | 69 (61-76) | 71 (65-77) | 0.0001 |
| Female sex | 0 | 3,351/17,730  (19%) | 362/2,912  (12%) | <0.0001 |
| Smoking | 2,476 (12%) | 2,418/15,556  (16%) | 277/2,610  (11%) | <0.0001 |
| Diabetes mellitus | 779  (4%) | 4,884/17,051  (29%) | 925/2,812  (33%) | <0.0001 |
| Hypertension | 1,031  (5%) | 9,825/16,826  (58%) | 2,006/2,785  (72%) | <0.0001 |
| Hypercholesterolaemia | 1,031  (5%) | 9,926/16,826  (59%) | 2,056/2,785  (74%) | <0.0001 |
| Previous MI | 1,627  (8%) | 8,766/16,453  (53%) | 1,714/2,562  (67%) | <0.0001 |
| Previous CVA | 1,031  (5%) | 928/16,826  (6%) | 231/2,785  (8%) | <0.0001 |
| Peripheral vascular disease | 1,031  (5%) | 1,348/16,826  (8%) | 387/2,785  (14%) | <0.0001 |
| Previous renal disease | 1,443  (7%) | 350/16,497  (2.12 %) | 48/2,702  (1.78%) | 0.24 |
| Family history of heart disease | 2,846  (14%) | 6,835/15,338  (45%) | 1,240/2,458  (50%) | <0.0001 |
| Indication for PCI | | | | |
| STEMI | 0 | 2,118/17,730  (12%) | 204/2,912  (7%) | <0.0001 |
| UA/NSTEMI | 0 | 7,571/17,730  (43%) | 1,711/2,912  (59%) | <0.0001 |
| Elective | 0 | 7,864/17,730  (45%) | 976/2,912  (34%)) | <0.0001 |
| Left Ventricular Systolic Function | | | | |
| Good  (LVEF >50%) | 11,737  (57%) | 4,202/7,414  (57%) | 731/1,491  (49%) | <0.0001 |
| Moderate (LVEF 30-50%) | 11,737  (57%) | 2,516/7,414  (34%) | 582/1,491  (39%) |
| Poor (LVEF <30%) | 11,737  (57%) | 696/7,414  (9%) | 178/1,491  (12%) |
| Access site (AS) | | | | |
| Femoral | 0 | 11,600/17,730  (65%) | 2,083/2,912  (71%) | <0.0001 |
| Radial | 0 | 5,666/17,730  (32%) | 860/2,912  (29%) | 0.009 |
|  | | | | |
| Glycoprotein IIb/IIIa inhibitor | 1,065  (5%) | 3,572/16,973  (21%) | 762/2,604  (29%) | <0.0001 |
| Cardiogenic shock | 225  (1%) | 225/17,529  (1.28%) | 19/2,888  (0.66%) | 0.004 |
| Circulatory support | 497  (2%) | 310/17,475  (1.77%) | 44/2,670  (1.65%) | 0.64 |
| DES use | 768  (4%) | 11,533/17,099  (67%) | 1,840/2,775  (66%) | 0.23 |
|  | Number of stents | | | |
| 0 | 275  (1%) | 1,793/17,483  (10%) | 56/2,884  (2%) | <0.0001 |
| 1 | 275  (1%) | 8,987/17,483  (51%) | 1,567/2,884  (54%) |
| 2 | 275  (1%) | 4,095/17,483  (24%) | 767/2,884  (27%) |
| ≥3 | 275  (1%) | 2,608/17,483  (15%) | 494/2,884  (17%) |
| Thrombus aspiration | 235  (1%) | 1,390/17,683  (8%) | 347/2,724  (13%) | <0.0001 |
| Mechanical ventilator support | 3,263  (16%) | 279/14,875  (2%) | 22/2,504  (1%) | <0.0001 |
| Median follow up period in years (IQR) | 0 | 4.18  (2.08 – 6.74) | 3.73  (2.07 – 5.65) | <0.0001 |
| Procedural complications |  |  |  |  |
| Dissection | 966  (5%) | 151/17,076  (0.88%) | 25/2,600  (0.96%) | 0.70 |
| Perforation | 966  (5%) | 77/17,076  (0.45%) | 16/2600  (0.62%) | 0.26 |
| Any procedural complications\* | 966  (5%) | 800/17,076  (4.68%) | 201/2,600  (7.73%) | <0.0001 |

PCI; Percutaneous Coronary Intervention, EPD; Embolic protection devices, IQR; Interquartile range, MI; Myocardial Infarction, CVA; Cerebrovascular accident, STEMI; ST segment elevation Myocardial Infarction, NSTEMI; Non-ST segment elevation Myocardial Infarction, UA; Unstable angina, LVEF; Left Ventricular ejection fraction, DES; Drug eluted stent

\* Any procedural complication includes Aortic dissection, Coronary perforation, Heart block requiring pacing, DC cardioversion, no flow/slow flow phenomenon, need ventilation, Shock induced by procedure