CHAPTER 5:

OUTCOME

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OUTCOME
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Summary
1. Overall, the in-hospital mortality was low at 1.5% (1.1% in 2007-2009 vs 1.8% in 2010-2012). The overall 30-day mortality and one year mortality were 2% and 3.9% respectively.

2. The incidents of periprocedural complications were low. Periprocedure MI (based on clinical diagnosis) was 0.4% and emergency reintervention was 0.3%.

3. Mortality prognosticators were similar over the two cohorts (2007-2009 and 2010-2012) ie age, clinical presentation & status of PCI, diabetics, female and being hypertensive.

The overall in-hospital all cause mortality for the entire cohort for year 2007-2012 was 1.5% (1.8% in 2010-2012 vs 1.1% in 2007-2009). [Table 5.2] This was probably contributed by increasing number of non-elective (acute) PCI cases (15.5% vs. 9.2%). [Table 5.8] Majority of deaths were cardiac causes (78.2%), followed by 2.4% infection. [Table 5.11]

The occurrences of post-procedure complications were low; arrhythmia (0.6%), bleeding (0.5%), cardiogenic shock (0.4%), new renal impairment (0.2%). The occurrences of periprocedural MI (0.4%), re-intervention (0.3%). There was no difference between the two periods. [Table 5.1]

Regarding medication, more than 90.0% of cases were on dual antiplatelet (aspirin and clopidogrel) at hospital discharge; however, decreased trend of DAPT usage at one year was observed (59.7%). [Table 5.10]

30-day readmissions for 2007-2012 were 5.6%. Most of the readmissions were for staged PCI(55.5%) Only 11.8% were due to recurrent angina and 1.8% of the readmissions were due to myocardial infarction. [Table 5.16]

Overall, mortality at discharge in 2007-2012 was higher in elderly patients (2.2%) compared to middle age (1.1%) and young patients (0.5%); by gender (2.1% in female vs. 1.4% male); by diabetes status (1.7% in diabetic vs. 1.0% in non-diabetic); by premorbid hypertension (1.4% in hypertensive vs. 1.2% in non-hypertensive) and by PCI status (8.8% in non-elective PCI vs. 0.5% in elective PCI). [Table 5.3, 5.4, 5.5, 5.6, and 5.8]
### Table 5.1 Summary of in-hospital outcome for patients who underwent PCI, NCVD-PCI Registry, 2007-2012

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Annual Report of the Percutaneous Coronary Intervention (PCI) Registry 2010-2012
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### Annual Report of the Percutaneous Coronary Intervention (PCI) Registry 2010 - 2012

#### OUTCOME

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<td>%</td>
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<td>%</td>
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<td>%</td>
<td>No.</td>
<td>%</td>
<td>No.</td>
<td>%</td>
</tr>
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<td>1</td>
<td>4</td>
<td></td>
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<td>1</td>
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</table>
Table 5.2 Overall outcome of patients who underwent PCI, NCVD-PCI Registry, 2007-2012

<table>
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<tr>
<th>Year</th>
<th>*Outcome</th>
<th>Overall outcome</th>
</tr>
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<td>Outcome at discharge</td>
</tr>
<tr>
<td></td>
<td></td>
<td>No.</td>
</tr>
<tr>
<td><strong>2007-2009</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total no. of patients = 10709</td>
<td>Death</td>
<td>123</td>
</tr>
<tr>
<td></td>
<td>Alive</td>
<td>10586</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>10709</td>
</tr>
<tr>
<td><strong>2010</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total no. of patients = 4157</td>
<td>Death</td>
<td>48</td>
</tr>
<tr>
<td></td>
<td>Alive</td>
<td>4109</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>4157</td>
</tr>
<tr>
<td><strong>2011</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total no. of patients = 4487</td>
<td>Death</td>
<td>90</td>
</tr>
<tr>
<td></td>
<td>Alive</td>
<td>4397</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>4487</td>
</tr>
<tr>
<td><strong>2012</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total no. of patients = 5106</td>
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</tr>
<tr>
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<td>Alive</td>
<td>4996</td>
</tr>
<tr>
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<td>Total</td>
<td>5106</td>
</tr>
<tr>
<td><strong>2010-2012</strong></td>
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<td></td>
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<td>Total</td>
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</tr>
<tr>
<td><strong>2007-2012</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total no. of patients = 24459</td>
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<td>371</td>
</tr>
<tr>
<td></td>
<td>Alive</td>
<td>24088</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>24459</td>
</tr>
</tbody>
</table>

*The outcome data has been derived based on data matching with National Death Register data
**Including patients who died in hospital
***Including patients who died in hospital & 30-day
****Including patients who died in hospital, 30-day and 6-month
### Table 5.3 Overall outcome for patients who underwent PCI, by age group (years), NCVD-PCI Registry, 2007-2012

<table>
<thead>
<tr>
<th>Year</th>
<th>*Outcome</th>
<th>Outcome at discharge</th>
<th>**30-day</th>
<th>***6-month</th>
<th>****1-year</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Young (No. (%)</td>
<td>Middle-aged (No. (%))</td>
<td>Elderly (No. (%))</td>
<td>Young (No. (%))</td>
</tr>
<tr>
<td><strong>2007-2009</strong></td>
<td>Total no. of patients = 10709</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Death</td>
<td>2 (0.4)</td>
<td>45 (0.7)</td>
<td>76 (1.8)</td>
<td>7 (1.6)</td>
<td>63 (1.0)</td>
</tr>
<tr>
<td>Alive</td>
<td>448 (99.6)</td>
<td>5970 (99.3)</td>
<td>4168 (98.2)</td>
<td>443 (98.4)</td>
<td>5952 (99.0)</td>
</tr>
<tr>
<td>Total</td>
<td>450 (100.0)</td>
<td>6015 (100.0)</td>
<td>4244 (100.0)</td>
<td>450 (100.0)</td>
<td>6015 (100.0)</td>
</tr>
<tr>
<td><strong>2010-2012</strong></td>
<td>Total no. of patients = 13750</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Death</td>
<td>3 (0.5)</td>
<td>103 (1.4)</td>
<td>142 (2.5)</td>
<td>3 (0.5)</td>
<td>133 (1.8)</td>
</tr>
<tr>
<td>Alive</td>
<td>589 (99.5)</td>
<td>7310 (98.6)</td>
<td>5603 (97.5)</td>
<td>589 (99.5)</td>
<td>7280 (98.2)</td>
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<td>7413 (100.0)</td>
<td>5745 (100.0)</td>
<td>592 (100.0)</td>
<td>7413 (100.0)</td>
</tr>
<tr>
<td><strong>2007-2012</strong></td>
<td>Total no. of patients = 24459</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Death</td>
<td>5 (0.5)</td>
<td>148 (1.1)</td>
<td>218 (2.2)</td>
<td>10 (1.0)</td>
<td>196 (1.5)</td>
</tr>
<tr>
<td>Alive</td>
<td>1037 (99.5)</td>
<td>13280 (98.9)</td>
<td>9771 (97.8)</td>
<td>1032 (99.0)</td>
<td>13232 (98.5)</td>
</tr>
<tr>
<td>Total</td>
<td>1042 (100.0)</td>
<td>13428 (100.0)</td>
<td>9989 (100.0)</td>
<td>1042 (100.0)</td>
<td>13428 (100.0)</td>
</tr>
</tbody>
</table>

*The outcome data has been derived based on data matching with National Death Register data

** Including patients who died in hospital, *** Including patients who died in hospital & 30-day, **** Including patients who died in hospital, 30-day and 6-month

Young is defined as age from 20 to less than 40 years, middle-aged is defined as age between 40 to less than 60 years and elderly is defined as 60 years and above
### Table 5.4 Overall outcome of patients who underwent PCI, by gender, NCVD-PCI Registry, 2007-2012

<table>
<thead>
<tr>
<th>Year</th>
<th>*Outcome</th>
<th><strong>Outcome at discharge</strong></th>
<th>*<strong>30-day</strong></th>
<th>****6-month</th>
<th>******1-year</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td>Male</td>
<td>Female</td>
<td>Male</td>
<td>Female</td>
</tr>
<tr>
<td></td>
<td>No.</td>
<td>%</td>
<td>No.</td>
<td>%</td>
<td>No.</td>
</tr>
<tr>
<td>2007-2009</td>
<td>Total no. of patients = 10709</td>
<td>Death</td>
<td>87</td>
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<td>36</td>
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<tr>
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<td>Alive</td>
<td>8644</td>
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<td>1942</td>
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<td>Total</td>
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<td>100.0</td>
<td>1978</td>
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<td>2010-2012</td>
<td>Total no. of patients = 13750</td>
<td>Death</td>
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<td>100.0</td>
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*The outcome data has been derived based on data matching with National Death Register data

** Including patients who died in hospital; *** Including patients who died in hospital & 30-day; ****Including patients who died in hospital,30-day and 6-month
## Table 5.5 Overall outcome of patients who underwent PCI, by pre-morbid diabetes, NCVD-PCI Registry, 2007-2012

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<th>Non-diabetic</th>
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<th>Missing</th>
<th><strong>30-day</strong></th>
<th><strong>6-month</strong></th>
<th><strong>1-year</strong></th>
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<tr>
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<td>No. (%)</td>
<td>No. (%)</td>
<td>No. (%)</td>
<td>No. (%)</td>
<td>No. (%)</td>
</tr>
<tr>
<td>2007-2009</td>
<td>Total no. of patients = 10709</td>
<td>76 (1.5)</td>
<td>38 (0.7)</td>
<td>8 (3.8)</td>
<td>1 (0.1)</td>
<td>115 (2.3)</td>
<td>60 (1.1)</td>
<td>10 (4.8)</td>
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<tr>
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<td>201 (96.2)</td>
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<td>4823 (97.7)</td>
<td>5480 (98.9)</td>
<td>199 (95.2)</td>
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<td>22 (100.0)</td>
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<td>5540 (100.0)</td>
<td>209 (100.0)</td>
</tr>
<tr>
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<td>45 (11.1)</td>
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<td>7111 (100.0)</td>
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<td>6232 (100.0)</td>
<td>7111 (100.0)</td>
<td>407 (100.0)</td>
</tr>
<tr>
<td>2007-2012</td>
<td>Total no. of patients = 24459</td>
<td>189 (1.7)</td>
<td>129 (1.0)</td>
<td>52 (8.4)</td>
<td>1 (4.5)</td>
<td>268 (2.4)</td>
<td>175 (1.4)</td>
<td>55 (8.9)</td>
</tr>
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<td>12522 (99.0)</td>
<td>564 (91.6)</td>
<td>21 (95.5)</td>
<td>10902 (97.6)</td>
<td>12476 (98.6)</td>
<td>561 (91.1)</td>
</tr>
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<td>12651 (100.0)</td>
<td>616 (100.0)</td>
<td>22 (100.0)</td>
<td>11170 (100.0)</td>
<td>12651 (100.0)</td>
<td>616 (100.0)</td>
</tr>
</tbody>
</table>

*The outcome data has been derived based on data matching with National Death Register data

** Including patients who died in hospital, *** Including patients who died in hospital & 30-day, ****Including patients who died in hospital,30-day and 6-month
Table 5.6 Overall outcome of patients who underwent PCI, by pre-morbid hypertension, NCVD-PCI Registry, 2007-2012

<table>
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<tr>
<th>Year</th>
<th>Outcome</th>
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<th>No. (%)</th>
<th>No. (%)</th>
<th>No. (%)</th>
<th>No. (%)</th>
<th>No. (%)</th>
<th>No. (%)</th>
<th>No. (%)</th>
<th>No. (%)</th>
<th>No. (%)</th>
<th>No. (%)</th>
<th>No. (%)</th>
<th>No. (%)</th>
<th>No. (%)</th>
<th>No. (%)</th>
<th>No. (%)</th>
<th>No. (%)</th>
</tr>
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<td>Non-hypertensive</td>
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<td>Non-hypertensive</td>
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<td>Non-hypertensive</td>
<td>Not known</td>
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<td>Hypertensive</td>
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<td>10 (6.5)</td>
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<td>226 (2.9)</td>
<td>57 (2.1)</td>
<td>11 (7.1)</td>
<td>0 (0)</td>
<td>323 (4.1)</td>
<td>73 (2.7)</td>
<td>13 (8.4)</td>
<td>0 (0)</td>
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*The outcome data has been derived based on data matching with National Death Register data

** Including patients who died in hospital, *** Including patients who died in hospital & 30-day, **** Including patients who died in hospital, 30-day and 6-month
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*The outcome data has been derived based on data matching with National Death Register data
** Including patients who died in hospital
Table 5.8 Overall outcome of patients who underwent PCI, by PCI status, NCVD-PCI Registry, 2007-2012

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<th>No. (%)</th>
<th>No. (%)</th>
<th>No. (%)</th>
<th>No. (%)</th>
<th>No. (%)</th>
<th>No. (%)</th>
<th>No. (%)</th>
<th>No. (%)</th>
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*The outcome data has been derived based on data matching with National Death Register data

**Including patients who died in hospital
Table 5.9 Overall outcome of patients who underwent PCI, by acute coronary syndrome, NCVD-PCI Registry, 2007-2012

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*The outcome data has been derived based on data matching with National Death Register data

** Including patients who died in hospital
## Table 5.10 Medication for patients who underwent PCI, NCVD-PCI Registry, 2007-2012

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<td>%</td>
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<tr>
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<td>6355</td>
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<td>395</td>
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</tr>
<tr>
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<td><strong>Dual antiplatelet</strong></td>
<td>9622</td>
<td>91.0</td>
<td>6171</td>
<td>81.4</td>
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<tr>
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<td>Statin</td>
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<td>1671</td>
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</tr>
<tr>
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<td>Beta blocker</td>
<td>7504</td>
<td>71.0</td>
<td>1214</td>
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<tr>
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<td>Ace inhibitor</td>
<td>5714</td>
<td>54.0</td>
<td>936</td>
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<td>1469</td>
<td>13.9</td>
<td>322</td>
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<tr>
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<td>Warfarin</td>
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<td>8</td>
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<tr>
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<td>Others</td>
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<td>6493</td>
<td>85.6</td>
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<td>12374</td>
<td>91.7</td>
<td>6131</td>
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<td>5908</td>
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<td>Ticlopidine</td>
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<td>197</td>
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</tr>
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<td></td>
<td><strong>Dual antiplatelet</strong></td>
<td>11934</td>
<td>88.4</td>
<td>5728</td>
<td>77.5</td>
</tr>
<tr>
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<td>Statin</td>
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<td>87.3</td>
<td>5339</td>
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<td>Beta blocker</td>
<td>9014</td>
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<td>3879</td>
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<td>Ace inhibitor</td>
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<td>2807</td>
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<td>11.4</td>
<td>884</td>
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<tr>
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<td>55</td>
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<tr>
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<td>Others</td>
<td>9194</td>
<td>68.1</td>
<td>4886</td>
<td>66.1</td>
</tr>
<tr>
<td>2011-2012</td>
<td>Aspirin</td>
<td>22241</td>
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<td>12954</td>
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<td>12263</td>
<td>81.9</td>
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<td>592</td>
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<td>11899</td>
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<td>21458</td>
<td>89.1</td>
<td>7010</td>
<td>46.8</td>
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<td>68.6</td>
<td>5093</td>
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</tr>
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<td>51.2</td>
<td>3743</td>
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<td>3012</td>
<td>12.5</td>
<td>1206</td>
<td>8.1</td>
</tr>
<tr>
<td></td>
<td>Warfarin</td>
<td>266</td>
<td>1.1</td>
<td>63</td>
<td>0.4</td>
</tr>
<tr>
<td></td>
<td>Others</td>
<td>16501</td>
<td>68.5</td>
<td>11379</td>
<td>76.0</td>
</tr>
</tbody>
</table>

*Available for those who are alive

**Dual antiplatelet is combination of Aspirin and Clopidogrel or Ticlopidine

# Patients are allowed to have more than one type of category
Table 5.11 Cause of death of patients who underwent PCI, NCVD-PCI Registry, 2007-2012

<table>
<thead>
<tr>
<th>Year</th>
<th>*Death cause</th>
<th>Outcome at discharge</th>
<th>**30-day</th>
<th>***6-month</th>
<th>****1-year</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>No.</td>
<td>%</td>
<td>No.</td>
<td>%</td>
</tr>
<tr>
<td>2007-2009</td>
<td>Cardiac</td>
<td>99</td>
<td>80.4</td>
<td>124</td>
<td>66.7</td>
</tr>
<tr>
<td></td>
<td>Renal</td>
<td>2</td>
<td>1.7</td>
<td>2</td>
<td>1.1</td>
</tr>
<tr>
<td></td>
<td>Other</td>
<td>6</td>
<td>4.8</td>
<td>7</td>
<td>3.8</td>
</tr>
<tr>
<td></td>
<td>Infection</td>
<td>3</td>
<td>2.5</td>
<td>3</td>
<td>1.6</td>
</tr>
<tr>
<td></td>
<td>Neurological</td>
<td>2</td>
<td>1.7</td>
<td>2</td>
<td>1.1</td>
</tr>
<tr>
<td></td>
<td>Vascular</td>
<td>1</td>
<td>0.8</td>
<td>1</td>
<td>0.5</td>
</tr>
<tr>
<td></td>
<td>Pulmonary</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Non cardiac</td>
<td>0</td>
<td>0</td>
<td>6</td>
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<tr>
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<td>33</td>
<td>17.7</td>
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<td>186</td>
<td>100.0</td>
<td>294</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Year</th>
<th>*Death cause</th>
<th>Outcome at discharge</th>
<th>**30-day</th>
<th>***6-month</th>
<th>****1-year</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>No.</td>
<td>%</td>
<td>No.</td>
<td>%</td>
</tr>
<tr>
<td>2010-2012</td>
<td>Cardiac</td>
<td>191</td>
<td>77.0</td>
<td>206</td>
<td>65.8</td>
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<tr>
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<td>Renal</td>
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<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
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<td>Other</td>
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<td>3.7</td>
<td>11</td>
<td>3.5</td>
</tr>
<tr>
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<td>Infection</td>
<td>6</td>
<td>2.4</td>
<td>6</td>
<td>1.9</td>
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<tr>
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<td>0.4</td>
<td>1</td>
<td>0.3</td>
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<tr>
<td></td>
<td>Vascular</td>
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<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Pulmonary</td>
<td>2</td>
<td>0.8</td>
<td>2</td>
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<td>Non cardiac</td>
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<td>0</td>
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<td>69</td>
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<tr>
<td>Total</td>
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<td>313</td>
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<table>
<thead>
<tr>
<th>Year</th>
<th>*Death cause</th>
<th>Outcome at discharge</th>
<th>**30-day</th>
<th>***6-month</th>
<th>****1-year</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>No.</td>
<td>%</td>
<td>No.</td>
<td>%</td>
</tr>
<tr>
<td>2007-2012</td>
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<td>290</td>
<td>78.2</td>
<td>330</td>
<td>66.1</td>
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<td>0.6</td>
<td>2</td>
<td>0.4</td>
</tr>
<tr>
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<td>4.0</td>
<td>18</td>
<td>3.6</td>
</tr>
<tr>
<td></td>
<td>Infection</td>
<td>9</td>
<td>2.4</td>
<td>9</td>
<td>1.8</td>
</tr>
<tr>
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<td>Neurological</td>
<td>3</td>
<td>0.8</td>
<td>3</td>
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<td>0.2</td>
<td>1</td>
<td>0.2</td>
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<td>0.6</td>
<td>2</td>
<td>0.4</td>
</tr>
<tr>
<td></td>
<td>Non cardiac</td>
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<td>0</td>
<td>8</td>
<td>1.6</td>
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<td>24</td>
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<tr>
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<td>102</td>
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<tr>
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<td>499</td>
<td>100.0</td>
<td>715</td>
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</table>

*The outcome data has been derived based on data matching with National Death Register data
** Including patients who died in hospital
† Patients may have more than one condition that caused death
Table 5.12 Location of death of patients who underwent PCI, NCVD-PCI Registry, 2007-2009

<table>
<thead>
<tr>
<th>Location of death</th>
<th>2007-2009 Total no. of patients = 123</th>
<th>2010-2012 Total no. of patients = 248</th>
<th>2007-2012 Total no. of patients = 371</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No.</td>
<td>%</td>
<td>No.</td>
</tr>
<tr>
<td>In lab</td>
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<td>21</td>
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<tr>
<td>Out of lab</td>
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<td>187</td>
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<td>Not available</td>
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<td>2.4</td>
<td>7</td>
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<tr>
<td>Missing</td>
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<td>5.7</td>
<td>33</td>
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<tr>
<td>Total</td>
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<td>248</td>
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</tbody>
</table>

Table 5.13 Outcome at discharge of patients who developed cardiogenic shock peri-procedure, NCVD-PCI Registry, 2007-2012

<table>
<thead>
<tr>
<th>Year</th>
<th>*Outcome</th>
<th>Cardiogenic shock peri-procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No.</td>
<td>%</td>
</tr>
<tr>
<td>2007-2009 Total no. of patients = 10709</td>
<td>Death</td>
<td>40</td>
</tr>
<tr>
<td></td>
<td>Alive</td>
<td>22</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>62</td>
</tr>
<tr>
<td>2010-2012 Total no. of patients = 13750</td>
<td>Death</td>
<td>35</td>
</tr>
<tr>
<td></td>
<td>Alive</td>
<td>11</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>46</td>
</tr>
<tr>
<td>2007-2012 Total no. of patients = 24459</td>
<td>Death</td>
<td>75</td>
</tr>
<tr>
<td></td>
<td>Alive</td>
<td>33</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>108</td>
</tr>
</tbody>
</table>

*The outcome data has been derived based on data matching with National Death Register data*
Table 5.14 Outcome at discharge, by post PCI TIMI flow, NCVD-PCI Registry, 2007-2012

<table>
<thead>
<tr>
<th>Year</th>
<th>*Outcome</th>
<th>Post PCI TIMI flow</th>
<th>Not available</th>
<th>Missing</th>
</tr>
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<td></td>
<td></td>
<td>0</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>No. (%)</td>
<td>No.</td>
<td>%</td>
<td>No.</td>
</tr>
<tr>
<td>2007-2009 Total</td>
<td>Death</td>
<td>13</td>
<td>4.8</td>
<td>14</td>
</tr>
<tr>
<td></td>
<td>Alive</td>
<td>257</td>
<td>95.2</td>
<td>161</td>
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<tr>
<td></td>
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<td>175</td>
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<tr>
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<td>Death</td>
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<td>23</td>
</tr>
<tr>
<td>2010-2012 Total</td>
<td>Alive</td>
<td>374</td>
<td>96.9</td>
<td>153</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>386</td>
<td>100.0</td>
<td>176</td>
</tr>
<tr>
<td></td>
<td>Death</td>
<td>25</td>
<td>3.8</td>
<td>37</td>
</tr>
<tr>
<td>2007-2012 Total</td>
<td>Alive</td>
<td>631</td>
<td>96.2</td>
<td>314</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>656</td>
<td>100.0</td>
<td>351</td>
</tr>
</tbody>
</table>

*The outcome data has been derived based on data matching with National Death Register data
Table 5.15 Outcome at discharge, by contrast volume used, NCVD-PCI Registry, 2007-2012

<table>
<thead>
<tr>
<th>Contrast volume, ml</th>
<th>2007-2009</th>
<th>2010-2012</th>
<th>ALL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Total no. of patients = 10709</td>
<td>Total no. of patients = 13750</td>
<td>Total no. of patients = 24459</td>
</tr>
<tr>
<td>*Death</td>
<td>Alive</td>
<td>Total</td>
<td>*Death</td>
</tr>
<tr>
<td>No. (%)</td>
<td>No. (%)</td>
<td>No. (%)</td>
<td>No. (%)</td>
</tr>
<tr>
<td>≥300</td>
<td>8 (1.2)</td>
<td>644 (99.8)</td>
<td>652 (100.0)</td>
</tr>
<tr>
<td>&lt;300</td>
<td>99 (1.1)</td>
<td>8717 (98.9)</td>
<td>8816 (100.0)</td>
</tr>
<tr>
<td>Not available</td>
<td>15 (1.3)</td>
<td>1117 (98.7)</td>
<td>1132 (100.0)</td>
</tr>
<tr>
<td>Missing</td>
<td>1 (0.9)</td>
<td>108 (99.1)</td>
<td>109 (100.0)</td>
</tr>
</tbody>
</table>

*The outcome data has been derived based on data matching with National Death Register data
+Alive includes those transferred to another centre

Table 5.16 Summary of 30-day readmission status of patients who underwent PCI, NCVD-PCI Registry, 2007-2012 (N = total no. of procedures for 30-day follow-up)

<table>
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<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
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<td></td>
<td>Total no. of procedures = 8318</td>
<td>Total no. of procedures = 8011</td>
<td>Total no. of procedures = 16329</td>
</tr>
<tr>
<td>Readmission reason, No. (%)</td>
<td>No.</td>
<td>%</td>
<td>No.</td>
</tr>
<tr>
<td>CHF</td>
<td>7</td>
<td>1.5</td>
<td>10</td>
</tr>
<tr>
<td>AMI</td>
<td>7</td>
<td>1.5</td>
<td>9</td>
</tr>
<tr>
<td>Recurrent angina</td>
<td>63</td>
<td>13.1</td>
<td>44</td>
</tr>
<tr>
<td>Arrhythmia</td>
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<td>0.2</td>
<td>0</td>
</tr>
<tr>
<td>PCI-planned</td>
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</tr>
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<td>PCI-unplanned</td>
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</tr>
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<td>1.0</td>
<td>7</td>
</tr>
<tr>
<td>Others</td>
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<td>11</td>
</tr>
<tr>
<td>Total</td>
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</tr>
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</table>
Table 5.17 Procedural complications and clinical outcomes, according to PCI status, NCVD-PCI Registry, 2007-2012

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<th></th>
<th></th>
</tr>
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<td>Elective</td>
<td>NSTEM I/UA</td>
<td>AMI</td>
</tr>
<tr>
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<td>No.</td>
<td>%</td>
<td>No.</td>
</tr>
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<td>Periprocedural MI</td>
<td>33</td>
<td>0.3</td>
<td>4</td>
</tr>
<tr>
<td>Emergency reintervention/PCI</td>
<td>16</td>
<td>0.2</td>
<td>4</td>
</tr>
<tr>
<td>Stent thrombosis</td>
<td>9</td>
<td>0.1</td>
<td>1</td>
</tr>
<tr>
<td>Dissection</td>
<td>8</td>
<td>0.1</td>
<td>0</td>
</tr>
<tr>
<td>Perforation</td>
<td>1</td>
<td>0.0</td>
<td>0</td>
</tr>
<tr>
<td>Bail-out CABG</td>
<td>4</td>
<td>0.0</td>
<td>0</td>
</tr>
<tr>
<td>Cardiogenic shock</td>
<td>22</td>
<td>0.2</td>
<td>7</td>
</tr>
<tr>
<td>Arrhythmia</td>
<td>38</td>
<td>0.4</td>
<td>6</td>
</tr>
<tr>
<td>TIA/stroke</td>
<td>4</td>
<td>0.0</td>
<td>2</td>
</tr>
<tr>
<td>Tamponade</td>
<td>5</td>
<td>0.1</td>
<td>0</td>
</tr>
<tr>
<td>Contrast reaction</td>
<td>6</td>
<td>0.1</td>
<td>0</td>
</tr>
<tr>
<td>New onset/worsen heart failure</td>
<td>6</td>
<td>0.1</td>
<td>1</td>
</tr>
<tr>
<td>New renal impairment</td>
<td>4</td>
<td>0.0</td>
<td>2</td>
</tr>
<tr>
<td>Bleeding</td>
<td>47</td>
<td>0.5</td>
<td>13</td>
</tr>
<tr>
<td>Access site occlusion</td>
<td>8</td>
<td>0.1</td>
<td>2</td>
</tr>
<tr>
<td>Loss of distal pulse</td>
<td>2</td>
<td>0.0</td>
<td>0</td>
</tr>
<tr>
<td>Dissection</td>
<td>23</td>
<td>0.2</td>
<td>0</td>
</tr>
<tr>
<td>Pseudoaneurysm</td>
<td>8</td>
<td>0.1</td>
<td>0</td>
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</table>
Table 5.18 Heart rate at presentation versus outcome, NCVD-PCI Registry, 2007-2012

<table>
<thead>
<tr>
<th>Heart rate at presentation (beats/minute)</th>
<th>2007-2009 Total no. of patients = 10709</th>
<th>2010-2012 Total no. of patients = 13750</th>
<th>2007-2012 Total no. of patients = 24459</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>*Death</td>
<td>Alive</td>
<td>*Death</td>
</tr>
<tr>
<td></td>
<td>No. (%)</td>
<td>No. (%)</td>
<td>No. (%)</td>
</tr>
<tr>
<td>&lt;90</td>
<td>64 (52.0)</td>
<td>8621 (81.5)</td>
<td>89 (35.8)</td>
</tr>
<tr>
<td>≥90</td>
<td>53 (43.1)</td>
<td>1156 (10.9)</td>
<td>112 (45.2)</td>
</tr>
<tr>
<td>Missing</td>
<td>6 (4.9)</td>
<td>809 (7.6)</td>
<td>47 (19.0)</td>
</tr>
<tr>
<td>Total</td>
<td>123 (100.0)</td>
<td>10586 (100.0)</td>
<td>248 (100.0)</td>
</tr>
</tbody>
</table>

*Alive include those patients transferred to another centres

Table 5.19 Heart rate at presentation versus length of stay, NCVD-PCI Registry, 2007-2012

<table>
<thead>
<tr>
<th>Length of stay</th>
<th>2007-2009 Total no. of patients = 10586</th>
<th>2010-2012 Total no. of patients = 13502</th>
<th>2007-2012 Total no. of patients = 24088</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>&lt;90</td>
<td>≥90</td>
<td>Missing</td>
</tr>
<tr>
<td>N</td>
<td>8470</td>
<td>1139</td>
<td>786</td>
</tr>
<tr>
<td>Mean(SD)</td>
<td>4.6 (21.0)</td>
<td>7.2 (36.3)</td>
<td>5.4 (29.5)</td>
</tr>
<tr>
<td>Median, (min,max)</td>
<td>3.0 (1.0, 1098.0)</td>
<td>3.0 (1.0, 734.0)</td>
<td>3.0 (1.0, 734.0)</td>
</tr>
<tr>
<td>Negative/zero, No. (%)</td>
<td>34 (0.4)</td>
<td>4 (0.3)</td>
<td>1 (0.1)</td>
</tr>
<tr>
<td>Missing, No. (%)</td>
<td>117 (1.4)</td>
<td>13 (1.1)</td>
<td>22 (2.7)</td>
</tr>
</tbody>
</table>

*Alive include those patients transferred to another centres
Table 5.20 Prognostic factors for in-hospital mortality among patients who underwent PCI, NCVD-PCI Registry, 2007-2012

<table>
<thead>
<tr>
<th>Factor</th>
<th>Total no. of patients = 23843</th>
<th>N</th>
<th>Hazard ratio</th>
<th>95% CI</th>
<th>*p-value</th>
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</thead>
<tbody>
<tr>
<td>Age</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Age group</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20-&lt;30 (ref)</td>
<td></td>
<td>87</td>
<td>1.00</td>
<td></td>
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<tr>
<td>30-&lt;40</td>
<td>933</td>
<td>5.098506.00</td>
<td>53235.45</td>
<td>48800000.00</td>
<td>&lt;0.001</td>
</tr>
<tr>
<td>40-&lt;50</td>
<td>4539</td>
<td>6.659671.00</td>
<td>223248.30</td>
<td>19900000.00</td>
<td>&lt;0.001</td>
</tr>
<tr>
<td>50-&lt;60</td>
<td>8565</td>
<td>1927293.00</td>
<td>137371.40</td>
<td>27000000.00</td>
<td>&lt;0.001</td>
</tr>
<tr>
<td>60-&lt;70</td>
<td>6819</td>
<td>901125.90</td>
<td>113036.90</td>
<td>7183744.00</td>
<td>&lt;0.001</td>
</tr>
<tr>
<td>70-&lt;80</td>
<td>2675</td>
<td>499425.80</td>
<td>108635.70</td>
<td>2295986.00</td>
<td>&lt;0.001</td>
</tr>
<tr>
<td>≥80</td>
<td>225</td>
<td>359363.10</td>
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<tr>
<td>PCI status</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Elective (ref)</td>
<td></td>
<td>20801</td>
<td>1.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NSTEMI/UA</td>
<td>1227</td>
<td>2.13</td>
<td>0.88</td>
<td>5.18</td>
<td>0.096</td>
</tr>
<tr>
<td>AMI</td>
<td>1780</td>
<td>3.98</td>
<td>2.02</td>
<td>7.85</td>
<td>&lt;0.001</td>
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<tr>
<td><strong>Hypertension</strong></td>
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<td>No (ref)</td>
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<td>1.00</td>
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<tr>
<td>Yes</td>
<td>17443</td>
<td>0.59</td>
<td>0.35</td>
<td>0.99</td>
<td>0.047</td>
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<tr>
<td>Killip class</td>
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<td></td>
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<td></td>
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<tr>
<td>I (ref)</td>
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<tr>
<td>II</td>
<td>2936</td>
<td>2.36</td>
<td>1.13</td>
<td>4.93</td>
<td>0.022</td>
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<tr>
<td>III</td>
<td>200</td>
<td>2.41</td>
<td>0.87</td>
<td>6.67</td>
<td>0.090</td>
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<tr>
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<td>393</td>
<td>3.63</td>
<td>1.58</td>
<td>8.32</td>
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<tr>
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<td>&lt;30</td>
<td>386</td>
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<td>1.37</td>
<td>0.61</td>
<td>3.09</td>
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<td>&gt;50 (ref)</td>
<td>4649</td>
<td>1.00</td>
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<tr>
<td>NYHA dyspnoea≥3 or congestive heart failure</td>
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<td>No (ref)</td>
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<td>3.43</td>
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<td>Cardiogenic shock</td>
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</tr>
<tr>
<td>No (ref)</td>
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<td>Yes</td>
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<td>4.80</td>
<td>2.40</td>
<td>9.63</td>
<td>&lt;0.001</td>
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<td>IABP</td>
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<tr>
<td>No (ref)</td>
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<td>604</td>
<td>2.53</td>
<td>1.27</td>
<td>5.05</td>
<td>0.009</td>
</tr>
<tr>
<td>Serum creatinine &gt;200µmol/L</td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No (ref)</td>
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<td>1.00</td>
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<tr>
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<td>1116</td>
<td>1.88</td>
<td>1.06</td>
<td>3.34</td>
<td>0.032</td>
</tr>
</tbody>
</table>

* using Cox regression with backward stepwise variable selection

** "No" category in these variables included "Not known" category
Table 5.21 Prognostic factors for 30-days mortality among patients who underwent PCI, NCVD-PCI Registry, 2007-2012 (Multivariable analysis)

<table>
<thead>
<tr>
<th>Factor</th>
<th>Total no. of patients = 15169</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>N</td>
</tr>
<tr>
<td>Gender</td>
<td></td>
</tr>
<tr>
<td>Male (ref)</td>
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</tr>
<tr>
<td>Female</td>
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<td>PCI status</td>
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<td>Elective (ref)</td>
<td>13672</td>
</tr>
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<td>675</td>
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<tr>
<td>AMI</td>
<td>803</td>
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<tr>
<td>Left ventricular ejection fraction</td>
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<td>&lt;30</td>
<td>255</td>
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<td>30-50</td>
<td>2535</td>
</tr>
<tr>
<td>&gt;50 (ref)</td>
<td>3420</td>
</tr>
<tr>
<td>Serum creatinine &gt;200µmol/L</td>
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</tr>
<tr>
<td>No (ref)</td>
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<tr>
<td>Yes</td>
<td>678</td>
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</table>

* using Cox regression with backward stepwise variable selection
** "No" category in these variables included "Not known" category