

## OUTCOME

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### Summary

1. Overall in-hospital mortality in the period of 2007 – 2014 was low at 2.0%; at 30 days, mortality was 2.3% and at 1 year, mortality was 3.75%. Mortality increased for the years 2013 – 2014 (2.3%) compared to 2007 – 2012 (1.5%) due to the increase in ACS patients.
2. Incidences of periprocedural complications were low (0 – 0.8%).
3. Mortality prognosticators were being elderly, clinical presentation (Killip Class III/IV and low EF), status of PCI (urgent > elective) and renal impairment. Being female and having diabetes appeared to cause higher but not statistically significant mortality. Patients with high cholesterol and higher blood pressure at presentation appeared to have lower (but statistically not significant) mortality.

There is an increasing trend of mortality in the present cohort for in-hospital mortality and at 30 days. In-hospital mortality for 2007 – 2012 was 1.5% vs. 2.3% in 2013 – 2014; mortality at 30 days for 2007 – 2012 was 2.0% vs. 2.7% in 2013 – 2014. At one year, no difference in mortality between the two cohorts (3.9% vs. 3.5%) was seen [Table 5.2]

In the 2013 – 2014 cohort, mortality within one year was mainly in-hospital (66%) vs. 38% in 2007 – 2012. Therefore, post discharge mortality had reduced in the last two years.

Most of the in-hospital deaths were cardiac related (78.2%); the rate decreased at follow-up (54% at one year). [Table 5.11]

In the ACS group, mortality was higher in STEMI > NSTEMI > UA. In the present cohort, mortality at discharge for STEMI was 8.1% vs. 4.6% in 2007 – 2012. For NSTEMI, mortality at discharge was 3.4% vs. 1.6% in 2007 – 2012. For UA, the mortality was similar between the two cohorts (1.2% vs. 1.1%). [Table 5.9]

The overall in-hospital complications were less than 2.0%: periprocedural MI (0.7%), cardiogenic shock (0.6%), stroke (0.1%) arrhythmia (0.8%), bleeding (0.2%, only two patients with major bleeding), and new renal impairment (0.5%). Emergency reintervention increased from 0.3% to 0.8%. Bail out CABG was extremely low, affecting only three patients in this cohort. [Table 5.1]

For elective PCI, in-hospital mortality (0.5% in 2007 – 2012 vs. 0.5% in 2013 – 2014) and 30-days mortality (0.9% in 2007 – 2012 vs. 0.8% in 2013 – 2014) were similar in both cohorts. For one year mortality, the present cohort seemed to have lower mortality (1.6%) compared to the previous cohort (2.8%). Non-elective PCI had higher in-hospital, 30-day and one year mortality. [Table 5.8]

In 2013 – 2014 cohort, mortality within one year was mainly in-hospital among non-elective (80%) vs. elective (31.3%). Similar trend was noted in 2007 – 2012, 78% vs. 18% among non-elective and elective respectively.

Higher mortality in elderly > middle age > young (2.5%, 1.3%, and 0.7% in 2010 – 2012 cohort), diabetes (1.8 vs. 1.3% non-DM), and female (2.1 vs. 1.7% in male). [Table 5.3, Table 5.4 and Table 5.5]

Comparison with other registries:

Table A Comparing in-hospital mortality with other registries

	Malaysia	Singapore	Thailand	China	Kerala	Jordan	UK
In-hospital mortality	1.5 – 2.3 %	0.3 – 0.4%	2.4% (< 75 yrs); 5.3% (≥ 75 yrs)	0.32%	0.4 – 0.5%	0.6%	1.6%

**Table 5.1 Summary of in-hospital outcomes for patients who underwent PCI, NCVD-PCI Registry, 2007 – 2014**

	2007 – 2012 Total no. of procedures = 26483		2013 Total no. of procedures = 6928		2014 Total no. of procedures = 8586		2013 – 2014 Total no. of procedures = 15514	
	No.	%	No.	%	No.	%	No.	%
Periprocedural MI, No. (%) (based on clinical diagnosis)/ significant periprocedural MI, No. (%)								
Yes	109	0.4	34	0.5	71	0.8	105	0.7
No	26183	98.9	6818	98.4	8412	98	15230	98.2
Not available	90	0.3	26	0.4	42	0.5	68	0.4
Missing	101	0.4	50	0.7	61	0.7	111	0.7
Emergency reintervention/PCI, No. (%)								
Yes	68	0.3	44	0.6	72	0.8	116	0.8
No	26306	99.3	6834	98.7	8453	98.5	15287	98.5
Missing	109	0.4	50	0.7	61	0.7	111	0.7
Bail-out CABG, No. (%)								
Yes	8	0.0	1	0.0	2	0.0	3	0.0
No	26373	99.6	6877	99.3	8509	99.1	15386	99.2
Missing	102	0.4	50	0.7	75	0.9	125	0.8
<b>Other complications</b>								
Cardiogenic shock (after procedure), No. (%)								
Yes	112	0.4	44	0.6	49	0.6	93	0.6
No	26269	99.2	6835	98.7	8474	98.7	15309	98.7
Missing	102	0.4	49	0.7	63	0.7	112	0.7
Arrhythmia (VT/VF/Brady), No. (%)								
Yes	146	0.6	68	1.0	51	0.6	119	0.8
No	26235	99.1	6810	98.3	8473	98.7	15283	98.5
Missing	102	0.3	50	0.7	62	0.7	112	0.7
TIA/Stroke, No. (%)								
Yes	10	0.0	6	0.1	2	0.0	8	0.1
No	26372	99.6	6875	99.2	8524	99.3	15399	99.2
Missing	101	0.4	47	0.7	60	0.7	107	0.7

	2007 – 2012 Total no. of procedures = 26483		2013 Total no. of procedures = 6928		2014 Total no. of procedures = 8586		2013 – 2014 Total no. of procedures = 15514	
	No.	%	No.	%	No.	%	No.	%
Tamponade, No. (%)								
Yes	17	0.0	0	0	2	0.0	2	0.0
No	26364	99.6	6877	99.3	8520	99.3	15397	99.3
Missing	102	0.4	51	0.7	64	0.7	115	0.7
Contrast reaction, No. (%)								
Yes	15	0.1	7	0.1	4	0.0	11	0.1
No	26363	99.5	6870	99.2	8520	99.3	15390	99.2
Missing	105	0.4	51	0.7	62	0.7	113	0.7
New onset/worsened heart failure, No. (%)								
Yes	21	0.1	14	0.2	11	0.1	25	0.2
No	26355	99.5	6864	99.1	8512	99.2	15376	99.1
Missing	107	0.4	50	0.7	63	0.7	113	0.7
New renal impairment, No. (%)								
Yes	49	0.2	48	0.7	33	0.4	81	0.5
No	26007	98.2	6821	98.5	8490	98.9	15311	98.7
Not available	321	1.2	10	0.1	2	0.0	12	0.1
Missing	106	0.4	49	0.7	61	0.7	110	0.7
Max post procedural rise in creatinine, No. (%)								
Yes	92	0.3						
No	25566	96.5						
Not available	625	2.4						
Missing	200	0.8						
Max post procedural rise in creatinine results, micromol/L								
N	92							
Mean (SD)	427.8(471.6)							
Median (min, max)	355.0(85.0, 4190.0)							
<b>Vascular complications</b>								
Bleeding, No. (%)								
Yes	137	0.5	18	0.3	10	0.1	28	0.2
No	26212	99.0	6858	98.9	8515	99.2	15373	99.1
Missing	134	0.5	52	0.8	61	0.7	113	0.7

	2007 – 2012 Total no. of procedures = 26483		2013 Total no. of procedures = 6928		2014 Total no. of procedures = 8586		2013 – 2014 Total no. of procedures = 15514	
	No.	%	No.	%	No.	%	No.	%
Type of bleeding, No. (%)								
Major	13	10.5	2	12.5	0	0	2	8.0
Minor	31	25.0	3	18.8	1	11.1	4	16.0
Minimal	80	64.5	11	68.7	8	88.9	19	76.0
Not available	9		2		0		2	
Missing	4		0		1		1	
Bleeding site, No. (%)								
Retroperitoneal	3	2.5	2	15.4	0	0	2	10.0
Percutaneous entry site	89	74.2	8	61.5	7	100	15	75.0
Others	28	23.3	3	23.1	0	0	3	15.0
Not available	9		5		2		7	
Missing	8		0		1		1	
Access site occlusion, No. (%)								
Yes	12	0.0	0	0	1	0.0	1	0.0
No	26327	99.5	6873	99.2	8521	99.3	15394	99.2
Missing	144	0.5	55	0.8	64	0.7	119	0.8
Loss of distal/radial pulse, No. (%)*								
Yes	2	0.0	0	0	1	0.0	1	0.0
No	26329	99.4	6875	99.2	8524	99.3	15399	99.3
Missing	152	0.6	53	0.8	61	0.7	114	0.7
Dissection, No. (%)								
Yes	37	0.1	4	0.1	3	0.0	7	0.0
No	26287	99.3	6870	99.1	8521	99.3	15391	99.3
Missing	159	0.6	54	0.8	62	0.7	116	0.7
Pseudoaneurysm, No. (%)								
Yes	17	0.1	4	0.1	8	0.1	12	0.1
No	26256	99.1	6863	99.1	8516	99.2	15379	99.1
Missing	210	0.8	61	0.8	62	0.7	123	0.8

	2007 – 2012 Total no. of procedures = 26483		2013 Total no. of procedures = 6928		2014 Total no. of procedures = 8586		2013 – 2014 Total no. of procedures = 15514	
	No.	%	No.	%	No.	%	No.	%
Management of pseudoaneurysm, No. (%)								
Ultrasound compression	5	41.7	2	66.7	2	40.0	4	50.0
Surgery	1	8.3	1	33.3	0	0	1	12.5
Others	6	50.0	0	0	3	60.0	3	37.5
Not available	4		1		2		3	
Missing	1		0		1		1	
Perforation, No. (%)								
Yes			1	0.0	0	0	1	0.0
No			5401	78.0	8412	98.0	13813	89.0
Missing			1526	22.0	174	2.0	1700	11.0

\*In 2007 – 2012, information was collected for "loss of distal pulse" whereas in 2013 – 2014, information was collected for "loss of radial pulse"

**Table 5.2 Overall outcome of patients who underwent PCI, NCVI-PCI Registry, 2007 – 2014**

Year	*Outcome	Overall outcome							
		Outcome at discharge		**30-day		***6-month		****1-year	
		No.	%	No.	%	No.	%	No.	%
2007 – 2012 Total no. of patients = 24459	Death	371	1.5	499	2.0	715	2.9	948	3.9
	Alive	24088	98.5	23960	98.0	23744	97.1	23511	96.1
	<b>Total</b>	<b>24459</b>	<b>100.0</b>	<b>24459</b>	<b>100.0</b>	<b>24459</b>	<b>100.0</b>	<b>24459</b>	<b>100.0</b>
2013 Total no. of patients = 6353	Death	136	2.1	172	2.7	211	3.3	250	3.9
	Alive	6217	97.9	6181	97.3	6142	96.7	6103	96.1
	<b>Total</b>	<b>6353</b>	<b>100.0</b>	<b>6353</b>	<b>100.0</b>	<b>6353</b>	<b>100.0</b>	<b>6353</b>	<b>100.0</b>
2014 Total no. of patients = 7783	Death	184	2.4	210	2.7	238	3.1	250	3.2
	Alive	7599	97.6	7573	97.3	7545	96.9	7533	96.8
	<b>Total</b>	<b>7783</b>	<b>100</b>	<b>7783</b>	<b>100</b>	<b>7783</b>	<b>100</b>	<b>7783</b>	<b>100</b>
2013 – 2014 Total no. of patients = 14136	Death	320	2.3	7783	2.7	449	3.2	500	3.5
	Alive	13816	97.7	7783	97.3	13687	96.8	13636	96.5
	<b>Total</b>	<b>14136</b>	<b>100.0</b>	<b>7783</b>	<b>100.0</b>	<b>14136</b>	<b>100.0</b>	<b>14136</b>	<b>100.0</b>

\*The outcome data was derived based on National Death Register data

\*\*Including patients who died in-hospital

\*\*\*Including patients who died in-hospital and at 30 days

\*\*\*\*Including patients who died in-hospital, at 30 days, and six months

Note: Patients with the status "transferred to other centre", "lost to follow-up", "not available" and "missing" were categorised as "alive" patients

**Table 5.3 Overall outcome for patients who underwent PCI, by age group (years), NCVD-PCI Registry, 2007 – 2014**

Year	*Outcome	Outcome at discharge			**30-day			***6-month			****1-year		
		Young	Middle-aged	Elderly	Young	Middle-aged	Elderly	Young	Middle-aged	Elderly	Young	Middle-aged	Elderly
		No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)
2007 – 2012 Total no. of patients = 24459	Death	5 (0.5)	148 (1.1)	218 (2.2)	10 (1.0)	196 (1.5)	293 (2.9)	15 (1.4)	286 (2.1)	414 (4.1)	22 (2.1)	376 (2.8)	550 (5.5)
	Alive	1037 (99.5)	13280 (98.9)	9771 (97.8)	1032 (99.0)	13232 (98.5)	9696 (97.1)	1027 (98.6)	13142 (97.9)	9575 (95.9)	1020 (97.9)	13052 (97.2)	9439 (94.5)
	<b>Total</b>	<b>1042 (100.0)</b>	<b>13428 (100.0)</b>	<b>9989 (100.0)</b>	<b>1042 (100.0)</b>	<b>13428 (100.0)</b>	<b>9989 (100.0)</b>	<b>1042 (100.0)</b>	<b>13428 (100.0)</b>	<b>9989 (100.0)</b>	<b>1042 (100.0)</b>	<b>13428 (100.0)</b>	<b>9989 (100.0)</b>
2013 Total no. of patients = 6353	Death	4 (1.3)	48 (1.4)	84 (3.3)	5 (1.6)	61 (1.8)	106 (4.1)	6 (1.9)	73 (2.1)	132 (5.1)	9 (2.8)	89 (2.6)	152 (5.9)
	Alive	315 (98.7)	3414 (98.6)	2488 (96.7)	314 (98.4)	3401 (98.2)	2466 (95.9)	313 (98.1)	3389 (97.9)	2440 (94.9)	310 (97.2)	3373 (97.4)	2420 (94.1)
	<b>Total</b>	<b>319 (100.0)</b>	<b>3462 (100.0)</b>	<b>2572 (100.0)</b>	<b>319 (100.0)</b>	<b>3462 (100.0)</b>	<b>2572 (100.0)</b>	<b>319 (100.0)</b>	<b>3462 (100.0)</b>	<b>2572 (100.0)</b>	<b>319 (100.0)</b>	<b>3462 (100.0)</b>	<b>2572 (100.0)</b>
2014 Total no. of patients = 7783	Death	5 (1.2)	78 (1.9)	101 (3.1)	6 (1.5)	87 (2.1)	117 (3.6)	6 (1.5)	96 (2.3)	136 (4.2)	7 (1.7)	100 (2.4)	143 (4.4)
	Alive	405 (98.8)	4024 (98.1)	3170 (96.9)	404 (98.5)	4015 (97.9)	3154 (96.4)	404 (98.5)	4006 (97.7)	3135 (95.8)	403 (98.3)	4002 (97.6)	3128 (95.6)
	<b>Total</b>	<b>410 (100.0)</b>	<b>4102 (100.0)</b>	<b>3271 (100.0)</b>	<b>410 (100.0)</b>	<b>4102 (100.0)</b>	<b>3271 (100.0)</b>	<b>410 (100.0)</b>	<b>4102 (100.0)</b>	<b>3271 (100.0)</b>	<b>410 (100.0)</b>	<b>4102 (100.0)</b>	<b>3271 (100.0)</b>
2013 – 2014 Total no. of patients = 14136	Death	9 (1.2)	126 (1.7)	185 (3.2)	11 (1.5)	148 (2.0)	223 (3.8)	12 (1.6)	169 (2.2)	268 (4.6)	16 (2.2)	189 (2.5)	295 (5.0)
	Alive	720 (98.8)	7438 (98.3)	5658 (96.8)	718 (98.5)	7416 (98.0)	5620 (96.2)	717 (98.4)	7395 (97.8)	5575 (95.4)	713 (97.8)	7375 (97.5)	5548 (95.0)
	<b>Total</b>	<b>729 (100.0)</b>	<b>7564 (100.0)</b>	<b>5843 (100.0)</b>	<b>729 (100.0)</b>	<b>7564 (100.0)</b>	<b>5843 (100.0)</b>	<b>729 (100.0)</b>	<b>7564 (100.0)</b>	<b>5843 (100.0)</b>	<b>729 (100.0)</b>	<b>7564 (100.0)</b>	<b>5843 (100.0)</b>

\*The outcome data was derived based on National Death Register data

\*\*Including patients who died in-hospital, \*\*\* Including patients who died in-hospital and at 30 days, \*\*\*\*Including patients who died in-hospital, at 30 days and at six months

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

Note: Patients with the status of "transferred to other centre", "lost to follow-up", "not available" and "missing" were categorised as "alive" patients

**Table 5.4 Overall outcome of patients who underwent PCI, by gender, NCVD-PCI Registry, 2007 – 2014**

Year	*Outcome	Outcome at discharge				**30-day				***6-month				****1-year			
		Male		Female		Male		Female		Male		Female		Male		Female	
		No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
2007 – 2012 Total no. of patients = 24459	Death	281	1.4	90	2.1	370	1.8	129	2.9	524	2.6	191	4.4	694	3.5	254	5.8
	Alive	19792	98.6	4296	97.9	19703	98.2	4257	97.1	19549	97.4	4195	95.6	19379	96.5	4132	94.2
	<b>Total</b>	<b>20073</b>	<b>100.0</b>	<b>4386</b>	<b>100.0</b>	<b>20073</b>	<b>100.0</b>	<b>4386</b>	<b>100.0</b>	<b>20073</b>	<b>100.0</b>	<b>4386</b>	<b>100.0</b>	<b>20073</b>	<b>100.0</b>	<b>4386</b>	<b>100.0</b>
2013 Total no. of patients = 6353	Death	95	1.8	41	3.9	126	2.4	46	4.3	156	2.9	55	5.2	189	3.6	61	5.7
	Alive	5195	98.2	1022	96.1	5164	97.6	1017	95.7	5134	97.1	1008	94.8	5101	96.4	1002	94.3
	<b>Total</b>	<b>5290</b>	<b>100.0</b>	<b>1063</b>	<b>100.0</b>	<b>5290</b>	<b>100.0</b>	<b>1063</b>	<b>100.0</b>	<b>5290</b>	<b>100.0</b>	<b>1063</b>	<b>100.0</b>	<b>5290</b>	<b>100.0</b>	<b>1063</b>	<b>100.0</b>
2014 Total no. of patients = 7783	Death	154	2.4	30	2.4	176	2.7	34	2.7	199	3.0	39	3.1	209	3.2	41	3.3
	Alive	6374	97.6	1225	97.6	6352	97.3	1221	97.3	6329	97.0	1216	96.9	6319	96.8	1214	96.7
	<b>Total</b>	<b>6528</b>	<b>100.0</b>	<b>1255</b>	<b>100.0</b>	<b>6528</b>	<b>100.0</b>	<b>1255</b>	<b>100.0</b>	<b>6528</b>	<b>100.0</b>	<b>1255</b>	<b>100.0</b>	<b>6528</b>	<b>100.0</b>	<b>1255</b>	<b>100.0</b>
2013 – 2014 Total no. of patients = 14136	Death	249	2.1	71	3.1	302	2.6	80	3.5	14	3.0	94	4.1	398	3.4	102	4.4
	Alive	11569	97.9	2247	96.9	11516	97.4	2238	96.5	11463	97.0	2224	95.9	11420	96.6	2216	95.6
	<b>Total</b>	<b>11818</b>	<b>100.0</b>	<b>2318</b>	<b>100.0</b>	<b>11818</b>	<b>100.0</b>	<b>2318</b>	<b>100.0</b>	<b>11818</b>	<b>100.0</b>	<b>2318</b>	<b>100.0</b>	<b>11818</b>	<b>100.0</b>	<b>2318</b>	<b>100.0</b>

\*The outcome data was derived based on National Death Register data \*\*Including patients who died in-hospital, \*\*\*Including patients who died in-hospital and at 30 days, \*\*\*\*Including patients who died in-hospital, at 30 days, and at six months

Note: Patients with the status of "transferred to other centre", "lost to follow-up", "not available" and "missing" were categorised as "alive" patient

Table 5.5 Overall outcome of patients who underwent PCI, by pre-morbid diabetes, NCVD-PCI Registry, 2007 – 2014

Year	*Outcome	Outcome at discharge			**30-day			***6-month			****1-year		
		Diabetic	Non-diabetic	Not known	Diabetic	Non-diabetic	Not known	Diabetic	Non-diabetic	Not known	Diabetic	Non-diabetic	Not known
		No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)
2013 Total no. of patients = 6353	Death	73 (2.7)	42 (1.3)	21 (5.4)	91 (3.3)	60 (1.9)	21 (5.4)	113 (4.1)	76 (2.4)	22 (5.7)	134 (4.9)	94 (2.9)	22 (5.7)
	Alive	2681 (97.3)	3171 (98.7)	365 (94.6)	2663 (96.7)	3153 (98.1)	365 (94.6)	2641 (95.9)	3137 (97.6)	364 (94.3)	2620 (95.1)	3119 (97.1)	364 (94.3)
	<b>Total</b>	<b>2754 (100.0)</b>	<b>3213 (100.0)</b>	<b>386 (100.0)</b>	<b>2754 (100.0)</b>	<b>3213 (100.0)</b>	<b>386 (100.0)</b>	<b>2754 (100.0)</b>	<b>3213 (100.0)</b>	<b>386 (100.0)</b>	<b>2754 (100.0)</b>	<b>3213 (100.0)</b>	<b>386 (100.0)</b>
2014 Total no. of patients = 7783	Death	79 (2.3)	69 (1.8)	36 (6.5)	90 (2.6)	80 (2.1)	40 (7.2)	103 (3.0)	93 (2.4)	42 (7.6)	109 (3.2)	98 (2.6)	43 (7.8)
	Alive	3325 (97.7)	3756 (98.2)	518 (93.5)	3314 (97.4)	3745 (97.9)	514 (92.8)	3301 (97.0)	3732 (97.6)	512 (92.4)	3295 (96.8)	3727 (97.4)	511 (92.2)
	<b>Total</b>	<b>3404 (100.0)</b>	<b>3825 (100.0)</b>	<b>554 (100.0)</b>	<b>3404 (100.0)</b>	<b>3825 (100.0)</b>	<b>554 (100.0)</b>	<b>3404 (100.0)</b>	<b>3825 (100.0)</b>	<b>554 (100.0)</b>	<b>3404 (100.0)</b>	<b>3825 (100.0)</b>	<b>554 (100.0)</b>



Year	*Outcome	Outcome at discharge				**30-day				***6-month				****1-year			
		Diabetic	Non-diabetic	Not known	Missing	Diabetic	Non-diabetic	Not known	Missing	Diabetic	Non-diabetic	Not known	Missing	Diabetic	Non-diabetic	Not known	Missing
		No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)
2007 – 2012 Total no. of patients = 24459	Death	189 (1.7)	129 (1.0)	52 (8.4)	1 (4.5)	268 (2.4)	175 (1.4)	55 (8.9)	1 (4.5)	413 (3.7)	243 (1.9)	58 (9.4)	1 (4.5)	556 (5.0)	329 (2.6)	62 (10.1)	1 (4.5)
	Alive	10981 (98.3)	12522 (99.0)	564 (91.6)	21 (95.5)	10902 (97.6)	12476 (98.6)	561 (91.1)	21 (95.5)	10757 (96.3)	12408 (98.1)	558 (90.6)	21 (95.5)	10614 (95.0)	12322 (97.4)	554 (89.9)	21 (95.5)
	<b>Total</b>	<b>11170 (100.0)</b>	<b>12651 (100.0)</b>	<b>616 (100.0)</b>	<b>22 (100.0)</b>	<b>11170 (100.0)</b>	<b>12651 (100.0)</b>	<b>616 (100.0)</b>	<b>22 (100.0)</b>	<b>11170 (100.0)</b>	<b>12651 (100.0)</b>	<b>616 (100.0)</b>	<b>22 (100.0)</b>	<b>11170 (100.0)</b>	<b>12651 (100.0)</b>	<b>616 (100.0)</b>	<b>22 (100.0)</b>
2013 – 2014 Total no. of patients = 14136	Death	152 (2.5)	111 (1.6)	57 (6.1)	0 (0)	181 (2.9)	140 (2.0)	61 (6.5)	0 (0)	216 (3.5)	169 (2.4)	64 (6.8)	0 (0)	243 (3.9)	192 (2.7)	65 (6.9)	0 (0)
	Alive	6006 (97.5)	6927 (98.4)	883 (93.9)	0 (0)	5977 (97.1)	6898 (98.0)	879 (93.5)	0 (0)	5942 (96.5)	6869 (97.6)	876 (93.2)	0 (0)	5915 (96.1)	6846 (97.3)	875 (93.1)	0 (0)
	<b>Total</b>	<b>6158 (100.0)</b>	<b>7038 (100.0)</b>	<b>940 (100.0)</b>	<b>0 (0)</b>	<b>6158 (100.0)</b>	<b>7038 (100.0)</b>	<b>940 (100.0)</b>	<b>0 (0)</b>	<b>6158 (100.0)</b>	<b>7038 (100.0)</b>	<b>940 (100.0)</b>	<b>0 (0)</b>	<b>6158 (100.0)</b>	<b>7038 (100.0)</b>	<b>940 (100.0)</b>	<b>0 (0)</b>

\*The outcome data was derived based on National Death Register data

\*\* Including patients who died in-hospital, \*\*\* Including patients who died in-hospital and at 30 days, \*\*\*\*Including patients who died in-hospital, at 30 days, and at six months

Note: Patients with the status of "transferred to other centre", "lost to follow-up", "not available" and "missing" were categorised as "alive" patients

**Table 5.6 Overall outcome of patients who underwent PCI, by pre-morbid hypertension, NCVD-PCI Registry, 2007 – 2014**

Year	*Outcome	Outcome at discharge			**30-day			***6-month			****1-year		
		Hypertensive	Non-hypertensive	Not known	Hypertensive	Non-hypertensive	Not known	Hypertensive	Non-hypertensive	Not known	Hypertensive	Non-hypertensive	Not known
		No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)
2013 Total no. of patients = 6353	Death	93 (2.2)	25 (1.4)	18 (5.5)	122 (2.8)	32 (1.8)	18 (5.5)	152 (3.5)	39 (2.3)	20 (6.2)	183 (4.3)	46 (2.7)	21 (6.5)
	Alive	4202 (97.8)	1708 (98.6)	307 (94.5)	4173 (97.2)	1701 (98.2)	307 (94.5)	4143 (96.5)	1694 (97.7)	305 (93.8)	4112 (95.7)	1687 (97.3)	304 (93.5)
	<b>Total</b>	<b>4295 (100.0)</b>	<b>1733 (100.0)</b>	<b>325 (100.0)</b>	<b>4295 (100.0)</b>	<b>1733 (100.0)</b>	<b>325 (100.0)</b>	<b>4295 (100.0)</b>	<b>1733 (100.0)</b>	<b>325 (100.0)</b>	<b>4295 (100.0)</b>	<b>1733 (100.0)</b>	<b>325 (100.0)</b>
2014 Total no. of patients = 7783	Death	101 (1.9)	42 (2.0)	41 (8.6)	119 (2.3)	48 (2.3)	43 (9.1)	142 (2.7)	53 (2.5)	43 (9.1)	149 (2.9)	58 (2.7)	43 (9.1)
	Alive	5083 (98.1)	2082 (98.0)	434 (91.4)	5065 (97.7)	2076 (97.7)	432 (90.9)	5042 (97.3)	2071 (97.5)	432 (90.9)	5035 (97.1)	2066 (97.3)	432 (90.9)
	<b>Total</b>	<b>5184 (100.0)</b>	<b>2124 (100.0)</b>	<b>475 (100.0)</b>	<b>5184 (100.0)</b>	<b>2124 (100.0)</b>	<b>475 (100.0)</b>	<b>5184 (100.0)</b>	<b>2124 (100.0)</b>	<b>475 (100.0)</b>	<b>5184 (100.0)</b>	<b>2124 (100.0)</b>	<b>475 (100.0)</b>

Year	*Outcome	Outcome at discharge				**30-day				***6-month				****1-year			
		Hypertensive	Non-hypertensive	Not known	Missing	Hypertensive	Non-hypertensive	Not known	Missing	Hypertensive	Non-hypertensive	Not known	Missing	Hypertensive	Non-hypertensive	Not known	Missing
		No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)
2007 – 2012 Total no. of patients = 24459	Death	250 (1.4)	74 (1.2)	47 (9.2)	0 (0)	347 (1.9)	104 (1.7)	48 (9.4)	0 (0)	527 (2.9)	139 (2.3)	49 (9.6)	0 (0)	717 (4.0)	180 (3.0)	51 (10.0)	0 (0)
	Alive	17647 (98.6)	5960 (98.8)	462 (90.8)	19 (100.0)	17550 (98.1)	5930 (98.3)	461 (90.6)	19 (100.0)	17370 (97.1)	5895 (97.7)	460 (90.4)	19 (100.0)	17180 (96.0)	5854 (97.0)	458 (90.0)	19 (100.0)
	<b>Total</b>	<b>17897 (100.0)</b>	<b>6034 (100.0)</b>	<b>509 (100.0)</b>	<b>19 (100.0)</b>	<b>17897 (100.0)</b>	<b>6034 (100.0)</b>	<b>509 (100.0)</b>	<b>19 (100.0)</b>	<b>17897 (100.0)</b>	<b>6034 (100.0)</b>	<b>509 (100.0)</b>	<b>19 (100.0)</b>	<b>17897 (100.0)</b>	<b>6034 (100.0)</b>	<b>509 (100.0)</b>	<b>19 (100.0)</b>
2013 – 2014 Total no. of patients = 14136	Death	194 (2.0)	67 (1.7)	59 (7.4)	0 (0)	241 (2.5)	80 (2.1)	61 (7.6)	0 (0)	294 (3.1)	92 (2.4)	63 (7.9)	0 (0)	332 (3.5)	104 (2.7)	64 (8.0)	0 (0)
	Alive	9285 (98.0)	3790 (98.3)	741 (92.6)	0 (0)	9238 (97.5)	3777 (97.9)	739 (92.4)	0 (0)	9185 (96.9)	3765 (97.6)	737 (92.1)	0 (0)	9147 (96.5)	3753 (97.3)	736 (92.0)	0 (0)
	<b>Total</b>	<b>9479 (100.0)</b>	<b>3857 (100.0)</b>	<b>800 (100.0)</b>	<b>0 (0)</b>	<b>9479 (100.0)</b>	<b>3857 (100.0)</b>	<b>800 (100.0)</b>	<b>0 (0)</b>	<b>9479 (100.0)</b>	<b>3857 (100.0)</b>	<b>800 (100.0)</b>	<b>0 (0)</b>	<b>9479 (100.0)</b>	<b>3857 (100.0)</b>	<b>800 (100.0)</b>	<b>0 (0)</b>

\*The outcome data was derived based on National Death Register data

\*\*Including patients who died in-hospital, \*\*\*Including patients who died in-hospital and at 30 days, \*\*\*\*Including patients who died in-hospital, at 30 days, and at six months

Note: Patients with the status of "transferred to other centre", "lost to follow-up", "not available" and "missing" were categorised as "alive" patients

Table 5.7 Overall outcome of patients who underwent PCI, by pre-morbid dyslipidaemia, NCVD-PCI Registry, 2007 – 2014

Year	*Outcome	Outcome at discharge			**30-day			***6-month			****1-year		
		Dyslipidaemic	Non-Dyslipidaemic	Not known	Dyslipidaemic	Non-dyslipidaemic	Not known	Dyslipidaemic	Non-Dyslipidaemic	Not known	Dyslipidaemic	Non-Dyslipidaemic	Not known
		No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)
2013 Total no. of patients = 6353	Death	47 (1.2)	54 (2.8)	35 (6.0)	74 (1.9)	62 (3.2)	36 (6.2)	100 (2.6)	74 (3.9)	37 (6.4)	125 (3.2)	87 (4.5)	38 (6.5)
	Alive	3807 (98.8)	1864 (97.2)	546 (94.0)	3780 (98.1)	1856 (96.8)	545 (93.8)	3754 (97.4)	1844 (96.1)	544 (93.6)	3729 (96.8)	1831 (95.5)	543 (93.5)
	<b>Total</b>	<b>3854 (100.0)</b>	<b>1918 (100.0)</b>	<b>581 (100.0)</b>	<b>3854 (100.0)</b>	<b>1918 (100.0)</b>	<b>581 (100.0)</b>	<b>3854 (100.0)</b>	<b>1918 (100.0)</b>	<b>581 (100.0)</b>	<b>3854 (100.0)</b>	<b>1918 (100.0)</b>	<b>581 (100.0)</b>
2014 Total no. of patients = 7783	Death	63 (1.4)	67 (2.8)	54 (7.4)	75 (1.6)	79 (3.2)	56 (7.7)	92 (2.0)	90 (3.7)	56 (7.7)	98 (2.1)	96 (3.9)	56 (7.7)
	Alive	4557 (98.6)	2366 (97.2)	676 (92.6)	4545 (98.4)	2354 (96.8)	674 (92.3)	4528 (98.0)	2343 (96.3)	674 (92.3)	4522 (97.9)	2337 (96.1)	674 (92.3)
	<b>Total</b>	<b>4620 (100.0)</b>	<b>2433 (100.0)</b>	<b>730 (100.0)</b>	<b>4620 (100.0)</b>	<b>2433 (100.0)</b>	<b>730 (100.0)</b>	<b>4620 (100.0)</b>	<b>2433 (100.0)</b>	<b>730 (100.0)</b>	<b>4620 (100.0)</b>	<b>2433 (100.0)</b>	<b>730 (100.0)</b>

Year	*Outcome	Outcome at discharge				**30-day				***6-month				****1-year			
		Dyslipidaemic	Non-dyslipidaemic	Not known	Missing	Dyslipidaemic	Non-dyslipidaemic	Not known	Missing	Dyslipidaemic	Non-Dyslipidaemic	Not known	Missing	Dyslipidaemic	Non-dyslipidaemic	Not known	Missing
		No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)
2007 – 2012 Total no. of patients = 24459	Death	193 (1.1)	96 (1.7)	80 (7.0)	2 (5.0)	287 (1.6)	119 (2.1)	91 (8.0)	2 (5.0)	443 (2.5)	168 (3.0)	102 (8.9)	2 (5.0)	620 (3.5)	216 (3.8)	110 (9.6)	2 (5.0)
	Alive	17425 (98.9)	5562 (98.3)	1063 (93.0)	38 (95.0)	17331 (98.4)	5539 (97.9)	1052 (92.0)	38 (95.0)	17175 (97.5)	5490 (97.0)	1041 (91.1)	38 (95.0)	16998 (96.5)	5442 (96.2)	1033 (90.4)	38 (95.0)
	<b>Total</b>	<b>17618 (100.0)</b>	<b>5658 (100.0)</b>	<b>1143 (100.0)</b>	<b>40 (100.0)</b>	<b>17618 (100.0)</b>	<b>5658 (100.0)</b>	<b>1143 (100.0)</b>	<b>40 (100.0)</b>	<b>17618 (100.0)</b>	<b>5658 (100.0)</b>	<b>1143 (100.0)</b>	<b>40 (100.0)</b>	<b>17618 (100.0)</b>	<b>5658 (100.0)</b>	<b>1143 (100.0)</b>	<b>40 (100.0)</b>
2013 – 2014 Total no. of patients = 14136	Death	110 (1.3)	121 (2.8)	89 (6.8)	<b>0</b> <b>(0)</b>	149 (1.8)	141 (3.2)	92 (7.0)	<b>0</b> <b>(0)</b>	192 (2.3)	164 (3.8)	93 (7.1)	<b>0</b> <b>(0)</b>	223 (2.6)	183 (4.2)	94 (7.2)	<b>0</b> <b>(0)</b>
	Alive	8364 (98.7)	4230 (97.2)	1222 (93.2)	<b>0</b> <b>(0)</b>	8325 (98.2)	4210 (96.8)	1219 (93.0)	<b>0</b> <b>(0)</b>	8282 (97.7)	4187 (96.2)	1218 (92.9)	<b>0</b> <b>(0)</b>	8251 (97.4)	4168 (95.8)	1217 (92.8)	<b>0</b> <b>(0)</b>
	<b>Total</b>	<b>8474 (100.0)</b>	<b>4351 (100.0)</b>	<b>1311 (100.0)</b>	<b>0 (0)</b>	<b>8474 (100.0)</b>	<b>4351 (100.0)</b>	<b>1311 (100.0)</b>	<b>0 (0)</b>	<b>8474 (100.0)</b>	<b>4351 (100.0)</b>	<b>1311 (100.0)</b>	<b>0 (0)</b>	<b>8474 (100.0)</b>	<b>4351 (100.0)</b>	<b>1311 (100.0)</b>	<b>0 (0)</b>

\*The outcome data was derived based on National Death Register data

\*\*Including patients who died in-hospital, \*\*\* Including patients who died in-hospital and at 30 days, \*\*\*\*Including patients who died in-hospital, at 30 days, and at six months

Note: Patients with the status of "transferred to other centre", "lost to follow-up", "not available" and "missing" were categorised as "alive" patients

**Table 5.8 Overall outcome of patients who underwent PCI, by PCI status, NCVI-PCI Registry, 2007 – 2014**

Year	*Outcome	Outcome at discharge				**30-day				***6-month				****1-year			
		Elective	Non-elective	Not available	Missing	Elective	Non-elective	Not available	Missing	Elective	Non-elective	Not available	Missing	Elective	Non-elective	Not available	Missing
		No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)
2013 Total no. of patients = 6353	Death	26 (0.6)	110 (6.6)	0 (0)	0 (0)	49 (1.0)	123 (7.4)	0 (0)	0 (0)	77 (1.6)	134 (8.0)	0 (0)	0 (0)	103 (2.2)	147 (8.8)	0 (0)	0 (0)
	Alive	4656 (99.4)	1561 (93.4)	0 (0)	0 (0)	4633 (99.0)	1548 (92.6)	0 (0)	0 (0)	4605 (98.4)	1537 (92.0)	0 (0)	0 (0)	4579 (97.8)	1524 (91.2)	0 (0)	0 (0)
	<b>Total</b>	<b>4682 (100.0)</b>	<b>1671 (100.0)</b>	<b>0 (0)</b>	<b>0 (0)</b>	<b>4682 (100.0)</b>	<b>1671 (100.0)</b>	<b>0 (0)</b>	<b>0 (0)</b>	<b>4682 (100.0)</b>	<b>1671 (100.0)</b>	<b>0 (0)</b>	<b>0 (0)</b>	<b>4682 (100.0)</b>	<b>1671 (100.0)</b>	<b>0 (0)</b>	<b>0 (0)</b>
2014 Total no. of patients = 7783	Death	25 (0.4)	159 (8.3)	0 (0)	0 (0)	38 (0.6)	172 (9.0)	0 (0)	0 (0)	55 (0.9)	183 (9.6)	0 (0)	0 (0)	61 (1.0)	189 (9.9)	0 (0)	0 (0)
	Alive	5847 (99.6)	1752 (91.7)	0 (0)	0 (0)	5834 (99.4)	1739 (91.0)	0 (0)	0 (0)	5817 (99.1)	1728 (90.4)	0 (0)	0 (0)	5811 (99.0)	1722 (90.1)	0 (0)	0 (0)
	<b>Total</b>	<b>5872 (100.0)</b>	<b>1911 (100.0)</b>	<b>0 (0)</b>	<b>0 (0)</b>	<b>5872 (100.0)</b>	<b>1911 (100.0)</b>	<b>0 (0)</b>	<b>0 (0)</b>	<b>5872 (100.0)</b>	<b>1911 (100.0)</b>	<b>0 (0)</b>	<b>0 (0)</b>	<b>5872 (100.0)</b>	<b>1911 (100.0)</b>	<b>0 (0)</b>	<b>0 (0)</b>

Year	*Outcome	Outcome at discharge				**30-day				***6-month				****1-year			
		Elective	Non-elective	Not available	Missing	Elective	Non-elective	Not available	Missing	Elective	Non-elective	Not available	Missing	Elective	Non-elective	Not available	Missing
		No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)
2007 – 2012 Total no. of patients = 24459	Death	96 (0.5)	273 (8.8)	0 (0)	2 (14.3)	201 (0.9)	296 (9.5)	0 (0)	2 (14.3)	391 (1.8)	322 (10.3)	0 (0)	2 (14.3)	595 (2.8)	351 (11.3)	0 (0)	2 (14.3)
	Alive	21213 (99.5)	2839 (91.2)	24 (100)	12 (85.7)	21108 (99.1)	2816 (90.5)	24 (100)	12 (85.7)	20918 (98.2)	2790 (89.7)	24 (100)	12 (85.7)	20714 (97.2)	2761 (88.7)	24 (100)	12 (85.7)
	<b>Total</b>	<b>21309 (100.0)</b>	<b>3112 (100.0)</b>	<b>24 (100.0)</b>	<b>14 (100.0)</b>	<b>21309 (100.0)</b>	<b>3112 (100.0)</b>	<b>24 (100.0)</b>	<b>14 (100.0)</b>	<b>21309 (100.0)</b>	<b>3112 (100.0)</b>	<b>24 (100.0)</b>	<b>14 (100.0)</b>	<b>21309 (100.0)</b>	<b>3112 (100.0)</b>	<b>24 (100.0)</b>	<b>14 (100.0)</b>
2013 – 2014 Total no. of patients = 14136	Death	51 (0.5)	269 (7.5)	0 (0)	0 (0)	87 (0.8)	295 (8.2)	0 (0)	0 (0)	132 (1.3)	317 (8.8)	0 (0)	0 (0)	164 (1.6)	336 (9.4)	0 (0)	0 (0)
	Alive	10503 (99.5)	3313 (92.5)	0 (0)	0 (0)	10467 (99.2)	3287 (91.8)	0 (0)	0 (0)	10422 (98.7)	3265 (91.2)	0 (0)	0 (0)	10390 (98.4)	3246 (90.6)	0 (0)	0 (0)
	<b>Total</b>	<b>10554 (100.0)</b>	<b>3582 (100.0)</b>	<b>0 (0)</b>	<b>0 (0)</b>	<b>10554 (100.0)</b>	<b>3582 (100.0)</b>	<b>0 (0)</b>	<b>0 (0)</b>	<b>10554 (100.0)</b>	<b>3582 (100.0)</b>	<b>0 (0)</b>	<b>0 (0)</b>	<b>10554 (100.0)</b>	<b>3582 (100.0)</b>	<b>0 (0)</b>	<b>0 (0)</b>

\*The outcome data was derived based on National Death Register data

\*\*Including patients who died in-hospital, \*\*\*Including patients who died in-hospital and at 30 days, \*\*\*\*Including patients who died in-hospital, at 30 days, and at six months

Note: Patients with the status of "transferred to other centre", "lost to follow-up", "not available" and "missing" were categorised as "alive" patients

**Table 5.9 Overall outcome of patients who underwent PCI, by acute coronary syndrome, NCVD-PCI Registry, 2007 – 2014**

Year	*Outcome	Outcome at discharge				**30-day				***6-month				****1-year			
		STEMI	NSTEMI	UA	Not available/ Missing	STEMI	NSTEMI	UA	Not available/ Missing	STEMI	NSTEMI	UA	Not available/ Missing	STEMI	NSTEMI	UA	Not available/ Missing
		No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)
2013 Total no. of patients = 6353	Death	87 (7.0)	18 (3.9)	6 (1.4)	1 (4.5)	98 (7.9)	21 (4.6)	12 (2.9)	1 (4.5)	106 (8.6)	23 (5.0)	16 (3.8)	1 (4.5)	120 (9.7)	23 (5.0)	17 (4.1)	1 (4.5)
	Alive	1150 (93.0)	439 (96.1)	412 (98.6)	21 (95.5)	1139 (92.1)	436 (95.4)	406 (97.1)	21 (95.5)	1131 (91.4)	434 (95.0)	402 (96.2)	21 (95.5)	1117 (90.3)	434 (95.0)	401 (95.9)	21 (95.5)
	<b>Total</b>	<b>1237 (100.0)</b>	<b>457 (100.0)</b>	<b>418 (100.0)</b>	<b>22 (100.0)</b>	<b>1237 (100.0)</b>	<b>457 (100.0)</b>	<b>418 (100.0)</b>	<b>22 (100.0)</b>	<b>1237 (100.0)</b>	<b>457 (100.0)</b>	<b>418 (100.0)</b>	<b>22 (100.0)</b>	<b>1237 (100.0)</b>	<b>457 (100.0)</b>	<b>418 (100.0)</b>	<b>22 (100.0)</b>
2014 Total no. of patients = 7783	Death	139 (8.9)	21 (3.1)	4 (0.9)	0 (0)	148 (9.5)	26 (3.8)	4 (0.9)	0 (0)	156 (10.0)	32 (4.7)	6 (1.4)	0 (0)	161 (10.3)	34 (5.0)	8 (1.8)	0 (0)
	Alive	1418 (91.1)	660 (96.9)	438 (99.1)	51 (100)	1409 (90.5)	655 (96.2)	438 (99.1)	51 (100)	1401 (90.0)	649 (95.3)	436 (98.6)	51 (100)	1396 (89.7)	647 (95.0)	434 (98.2)	51 (100.0)
	<b>Total</b>	<b>1557 (100.0)</b>	<b>681 (100.0)</b>	<b>442 (100.0)</b>	<b>51 (100.0)</b>	<b>1557 (100.0)</b>	<b>681 (100.0)</b>	<b>442 (100.0)</b>	<b>51 (100.0)</b>	<b>1557 (100.0)</b>	<b>681 (100.0)</b>	<b>442 (100.0)</b>	<b>51 (100.0)</b>	<b>1557 (100.0)</b>	<b>681 (100.0)</b>	<b>442 (100.0)</b>	<b>51 (100.0)</b>



Year	*Outcome	Outcome at discharge				**30-day				***6-month				****1-year			
		STEMI	NSTEMI	UA	Not available/ Missing	STEMI	NSTEMI	UA	Not available/ Missing	STEMI	NSTEMI	UA	Not available/ Missing	STEMI	NSTEMI	UA	Not available/ Missing
		No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)
2007 – 2012 Total no. of patients = 9416	Death	243 (4.6)	49 (1.6)	12 (1.1)	6 (7.2)	277 (5.3)	70 (2.3)	16 (1.5)	6 (7.2)	321 (6.1)	110 (3.6)	26 (2.5)	6 (7.2)	373 (7.1)	148 (4.9)	37 (3.5)	6 (7.2)
	Alive	5004 (95.4)	2989 (98.4)	1036 (98.9)	77 (95.8)	4970 (94.7)	2968 (97.7)	1032 (98.5)	77 (95.8)	4926 (93.9)	2928 (96.4)	1022 (97.5)	77 (95.8)	4874 (92.9)	2890 (95.1)	1011 (96.5)	77 (95.8)
	<b>Total</b>	<b>5247 (100.0)</b>	<b>3038 (100.0)</b>	<b>1048 (100.0)</b>	<b>83 (100.0)</b>	<b>5247 (100.0)</b>	<b>3038 (100.0)</b>	<b>1048 (100.0)</b>	<b>83 (100.0)</b>	<b>5247 (100.0)</b>	<b>3038 (100.0)</b>	<b>1048 (100.0)</b>	<b>83 (100.0)</b>	<b>5247 (100.0)</b>	<b>3038 (100.0)</b>	<b>1048 (100.0)</b>	<b>83 (100.0)</b>
2013 – 2014 Total no. of patients = 14136	Death	226 (8.1)	39 (3.4)	10 (1.2)	1 (1.4)	246 (8.8)	47 (4.1)	16 (1.9)	1 (1.4)	262 (9.4)	55 (4.8)	22 (2.6)	1 (1.4)	281 (10.1)	57 (5.0)	25 (2.9)	1 (1.4)
	Alive	2568 (91.9)	1099 (96.6)	850 (98.8)	72 (98.6)	2548 (91.2)	1091 (95.9)	844 (98.1)	72 (98.6)	2532 (90.6)	1083 (95.2)	838 (97.4)	72 (98.6)	2513 (89.9)	1081 (95.0)	835 (97.1)	72 (98.6)
	<b>Total</b>	<b>2794 (100.0)</b>	<b>1138 (100.0)</b>	<b>860 (100.0)</b>	<b>73 (100.0)</b>	<b>2794 (100.0)</b>	<b>1138 (100.0)</b>	<b>860 (100.0)</b>	<b>73 (100.0)</b>	<b>2794 (100.0)</b>	<b>1138 (100.0)</b>	<b>860 (100.0)</b>	<b>73 (100.0)</b>	<b>2794 (100.0)</b>	<b>1138 (100.0)</b>	<b>860 (100.0)</b>	<b>73 (100.0)</b>

\*The outcome data was derived based on National Death Register data

\*\* Including patients who died in-hospital, \*\*\* Including patients who died in-hospital and at 30 days, \*\*\*\*Including patients who died in-hospital, at 30 days, and at six months

Note: Patients with status of "transferred to other centre", "lost to follow-up", "not available" and "missing" were categorised as "alive" patients

**Table 5.10 Medication for patients who underwent PCI, NCVI-PCI Registry, 2007 – 2014**

Year	#*Medication	Outcome at discharge		30-day		6-month		1-year	
		No.	%	No.	%	No.	%	No.	%
2007 – 2012 Total no. of alive patients = 24075	Aspirin	22241	92.4	12954	86.5	10149	81.5	8357	77.0
	Clopidogrel	22295	92.6	12263	81.9	8727	70.1	6232	57.5
	Ticlopidine	857	3.6	592	4.0	556	4.5	466	4.3
	**Dual antiplatelet	21556	89.5	11899	79.4	8324	66.9	5741	52.9
	Statin	21458	89.1	7010	46.8	10178	81.8	8604	79.3
	Beta blocker	16518	68.6	5093	34.0	7642	61.4	6453	59.5
	ACE inhibitor	12326	51.2	3743	25.0	5369	43.1	4395	40.5
	ARB	3012	12.5	1206	8.1	2101	16.9	1988	18.3
	Warfarin	266	1.1	63	0.4	89	0.7	67	0.6
	Prasugrel								
	Ticagrelor								
Others	16501	68.5	11379	76.0	8349	67.1	7271	67.0	
2013 Total no. of alive patients = 6217	Aspirin	5522	88.8	1866	81.9	1544	78.2	1114	68.6
	Clopidogrel	5162	83.0	1698	74.5	1310	66.3	750	46.2
	Ticlopidine	81	1.3	25	1.1	12	0.6	16	1.0
	**Dual antiplatelet	5049	81.2	1666	73.1	1281	64.9	711	43.8
	Statin	5325	85.7	1738	76.3	1500	75.9	1111	68.4
	Beta blocker	4158	66.9	1361	59.7	1198	60.7	895	55.1
	ACE inhibitor	3001	48.3	856	37.6	809	41.0	566	34.9
	ARB	607	9.8	197	8.6	171	8.7	167	10.3
	Warfarin	74	1.2	18	0.8	6	0.3	9	0.6
	Prasugrel	32	0.5	8	0.4	5	0.3	3	0.2
	Ticagrelor	354	5.7	42	1.8	25	1.3	23	1.4
Others	3430	55.2	1074	47.1	754	38.2	525	32.3	
2014 Total no. of alive patients = 7599	Aspirin	6890	90.7	1348	72	894	64.2	597	61.4
	Clopidogrel	6168	81.2	1288	68.8	782	56.1	417	42.9
	Ticlopidine	75	1.0	3	0.2	2	0.1	3	0.3
	**Dual antiplatelet	5946	78.2	1224	65.4	758	54.4	402	41.4
	Statin	6650	87.5	1291	69.0	858	61.6	594	61.1
	Beta blocker	5182	68.2	970	51.8	673	48.3	464	47.7
	ACE inhibitor	3633	47.8	679	36.3	471	33.8	345	35.5
	ARB	680	8.9	75	4.0	70	5.0	62	6.4
	Warfarin	72	0.9	20	1.1	12	0.9	7	0.7
	Prasugrel	73	1.0	7	0.4	3	0.2	0	0
	Ticagrelor	923	12.1	79	4.2	27	1.9	8	0.8
Others	4100	54.0	431	23.0	237	17.0	168	17.3	
2013 – 2014 Total no. of alive patients = 13816	Aspirin	12412	89.8	3214	77.4	2438	72.4	1711	65.9
	Clopidogrel	11330	82.0	2986	71.9	2092	62.1	1167	45.0
	Ticlopidine	156	1.1	28	0.7	14	0.4	19	0.7
	**Dual antiplatelet	10995	79.6	2890	69.6	2039	60.5	1113	42.9
	Statin	11975	86.7	3029	73.0	2358	70.0	1705	65.7
	Beta blocker	9340	67.6	2331	56.2	1871	55.6	1359	52.3
	ACE inhibitor	6634	48.0	1535	37.0	1280	38.0	911	35.1
	ARB	1287	9.3	272	6.6	241	7.2	229	8.8
	Warfarin	146	1.1	38	0.9	18	0.5	16	0.6
	Prasugrel	105	0.8	15	0.4	8	0.2	3	0.1
	Ticagrelor	1277	9.2	121	2.9	52	1.5	31	1.2
Others	7530	54.5	1505	36.3	991	29.4	693	26.7	

\*Available for those who were alive

\*\*Dual antiplatelet is combination of aspirin and clopidogrel or ticlopidine

#Patients were allowed to be in more than one type of category

**Table 5.11 Cause of death of patients who underwent PCI, NCDV-PCI Registry, 2007 – 2014**

Year	*Death cause	Outcome at discharge		**30-day		***6-month		****1-year	
		No.	%	No.	%	No.	%	No.	%
2007 – 2012 Total no. of patients = 371	Cardiac	290	78.2	330	66.1	378	52.9	423	44.6
	Renal	2	0.6	2	0.4	2	0.3	2	0.2
	Other	15	4.0	18	3.6	21	2.9	31	3.3
	Infection	9	2.4	9	1.8	9	1.3	9	0.9
	Neurological	3	0.8	3	0.6	3	0.4	3	0.3
	Vascular	1	0.2	1	0.2	1	0.1	1	0.1
	Pulmonary	2	0.6	2	0.4	2	0.3	2	0.2
	Non-cardiac	0	0	8	1.6	18	2.5	30	3.2
	Not available	12	3.2	24	4.8	83	11.6	140	14.8
	Missing	37	10.0	102	20.4	198	27.7	307	32.4
<b>Total</b>	<b>371</b>	<b>100.0</b>	<b>499</b>	<b>100.0</b>	<b>715</b>	<b>100.0</b>	<b>948</b>	<b>100.0</b>	
2013 Total no. of patients = 136	Cardiac	107	78.7	113	65.7	116	55.0	120	48.0
	Renal	0	0	0	0	0	0	0	0
	Other	8	5.9	9	5.2	11	5.2	11	4.4
	Infection	1	0.7	1	0.6	1	0.5	1	0.4
	Neurological	0	0	0	0	0	0	0	0
	Vascular	0	0	0	0	0	0	0	0
	Pulmonary	3	2.2	3	1.7	3	1.4	3	1.2
	Non-cardiac	0	0	0	0	2	0.9	6	2.4
	Not available	3	2.2	6	3.5	8	3.8	9	3.6
	Missing	14	10.3	40	23.3	70	33.2	100	40.0
<b>Total</b>	<b>136</b>	<b>100.0</b>	<b>172</b>	<b>100.0</b>	<b>211</b>	<b>100.0</b>	<b>250</b>	<b>100.0</b>	
2014 Total no. of patients = 184	Cardiac	140	76.1	145	69.0	152	63.9	153	61.2
	Renal	4	2.2	4	1.9	4	1.7	4	1.6
	Other	5	2.7	5	2.4	5	2.1	5	2.0
	Infection	3	1.6	3	1.4	3	1.3	3	1.2
	Neurological	0	0	0	0	0	0	0	0
	Vascular	0	0	0	0	0	0	0	0
	Pulmonary	1	0.5	1	0.5	1	0.4	1	0.4
	Non-cardiac	0	0	1	0.5	6	2.5	7	2.8
	Not available	2	1.1	3	1.4	6	2.5	8	3.2
	Missing	29	15.8	48	22.9	61	25.6	69	27.6
<b>Total</b>	<b>184</b>	<b>100.0</b>	<b>210</b>	<b>100.0</b>	<b>238</b>	<b>100.0</b>	<b>250</b>	<b>100.0</b>	
2013 – 2014 Total no. of patients = 320	Cardiac	247	77.1	258	67.5	268	59.6	273	54.6
	Renal	4	1.3	4	1.0	4	0.9	4	0.8
	Other	13	4.1	14	3.7	16	3.6	16	3.2
	Infection	4	1.3	4	1.0	4	0.9	4	0.8
	Neurological	0	0	0	0	0	0	0	0
	Vascular	0	0	0	0	0	0	0	0
	Pulmonary	4	1.3	4	1.0	4	0.9	4	0.8
	Non-cardiac	0	0	1	0.3	8	1.8	13	2.6
	Not available	5	1.6	9	2.4	14	3.1	17	3.4
	Missing	43	13.3	88	23.1	131	29.2	169	33.8
<b>Total</b>	<b>320</b>	<b>100.0</b>	<b>382</b>	<b>100.0</b>	<b>449</b>	<b>100.0</b>	<b>500</b>	<b>100.0</b>	

\*The outcome data was derived based on National Death Register data

\*\*Including patients who died in-hospital, \*\*\* Including patients who died in-hospital and at 30 days, \*\*\*\*Including patients who died in-hospital, at 30 days, and at six months

**Table 5.12 Location of death of patients who underwent PCI, NCVD-PCI Registry, 2007 – 2014**

Year	2007 – 2012 Total no. of patients = 371		2013 Total no. of procedures = 136		2014 Total no. of procedures = 184		2013 – 2014 Total no. of procedures = 320	
	No.	%	No.	%	No.	%	No.	%
In lab	34	9.2	16	11.8	17	9.2	33	10.3
Out of lab	287	77.4	98	72.1	134	72.9	232	72.5
Not available	10	2.7	2	1.5	3	1.6	5	1.6
Missing	40	10.7	20	14.6	30	16.3	50	15.6
<b>Total</b>	<b>371</b>	<b>100.0</b>	<b>136</b>	<b>100.0</b>	<b>184</b>	<b>100.0</b>	<b>320</b>	<b>100.0</b>

**Table 5.13 Outcome at discharge of patients who developed cardiogenic shock peri-procedure, NCVD-PCI Registry, 2007 – 2014**

Year	*Outcome	Cardiogenic shock peri-procedure					
		Yes		No		Missing	
		No.	%	No.	%	No.	%
2007 – 2012 Total no. of patients = 24459	Death	75	69.4	295	1.2	1	1.1
	Alive	33	30.6	23967	98.8	88	98.9
	<b>Total</b>	<b>108</b>	<b>100.0</b>	<b>24262</b>	<b>100.0</b>	<b>89</b>	<b>100.0</b>
2013 Total no. of patients = 6353	Death	33	80.5	103	1.6	0	0
	Alive	8	19.5	6161	98.4	48	100
	<b>Total</b>	<b>41</b>	<b>100.0</b>	<b>6264</b>	<b>100.0</b>	<b>48</b>	<b>100.0</b>
2014 Total no. of patients = 7783	Death	43	89.6	139	1.8	2	3.7
	Alive	5	10.4	7542	98.2	52	96.3
	<b>Total</b>	<b>48</b>	<b>100.0</b>	<b>7681</b>	<b>100.0</b>	<b>54</b>	<b>100.0</b>
2013 – 2014 Total no. of patients = 14136	Death	76	85.4	242	1.7	2	2.0
	Alive	13	14.6	13703	98.3	100	98.0
	<b>Total</b>	<b>89</b>	<b>100.0</b>	<b>13945</b>	<b>100.0</b>	<b>102</b>	<b>100.0</b>

\*The outcome data was derived based on National Death Register data

Note: Patients with the status of "transferred to other centre", "lost to follow-up", "not available" and "missing" were categorised as "alive" patients

**Table 5.14 Outcome at discharge, by post PCI TIMI flow, NCVd-PCI Registry, 2007 – 2014**

Year	*Outcome	Post PCI TIMI flow					
		0	1	2	3	Not available	Missing
		No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)
2007 – 2012 Total no. of lesions = 34873	Death	25 (3.8)	16 (12.4)	37 (10.5)	341 (1.1)	8 (2.3)	31 (1.3)
	Alive	631 (96.2)	113 (87.6)	314 (89.5)	30709 (98.9)	346 (97.7)	2302 (98.7)
	<b>Total</b>	<b>656 (100.0)</b>	<b>129 (100.0)</b>	<b>351 (100.0)</b>	<b>31050 (100.0)</b>	<b>354 (100.0)</b>	<b>2333 (100.0)</b>
2013 Total no. of patients = 6353	Death	8 (5.2)	1 (2.2)	6 (4.0)	142 (1.9)	9 (4.5)	7 (1.7)
	Alive	146 (94.8)	44 (97.8)	143 (96.0)	7404 (98.1)	190 (95.5)	417 (98.3)
	<b>Total</b>	<b>154 (100.0)</b>	<b>45 (100.0)</b>	<b>149 (100.0)</b>	<b>7546 (100.0)</b>	<b>199 (100.0)</b>	<b>424 (100.0)</b>
2014 Total no. of patients = 7783	Death	9 (4.7)	7 (17.5)	22 (12.4)	155 (1.7)	8 (4.2)	21 (2.5)
	Alive	181 (95.3)	33 (82.5)	155 (87.6)	9206 (98.3)	181 (95.8)	834 (97.5)
	<b>Total</b>	<b>190 (100.0)</b>	<b>40 (100.0)</b>	<b>177 (100.0)</b>	<b>9361 (100.0)</b>	<b>189 (100.0)</b>	<b>855 (100.0)</b>
2013 – 2014 Total no. of patients = 14136	Death	17 (4.9)	8 (9.4)	28 (8.6)	297 (1.8)	17 (4.4)	28 (2.2)
	Alive	327 (95.1)	77 (90.6)	298 (91.4)	16610 (98.2)	371 (95.6)	1251 (97.8)
	<b>Total</b>	<b>344 (100.0)</b>	<b>85 (100.0)</b>	<b>326 (100.0)</b>	<b>16907 (100.0)</b>	<b>388 (100.0)</b>	<b>1279 (100.0)</b>

\*The outcome data was derived based on National Death Register data

Note: Patients with status of "transferred to other centre", "lost to follow-up", "not available" and "missing" were categorised as "alive" patients

**Table 5.15 Outcome at discharge, by contrast volume used, NCVD-PCI Registry, 2007 – 2014**

Contrast volume, ml	2007 – 2012 Total no. of patients = 24459			2013 Total no. of patients = 6353			2014 Total no. of patients = 7783			2013 – 2014 Total no. of patients = 14136		
	*Death	Alive	Total	*Death	Alive	Total	*Death	Alive	Total	*Death	Alive	Total
	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)	No. (%)
≥ 300	38 (2.4)	1570 (97.6)	1608 (100.0)	12 (3.9)	295 (96.1)	307 (100.0)	7 (1.8)	381 (98.2)	388 (100.0)	19 (2.7)	676 (97.3)	695 (100.0)
< 300	286 (1.4)	19959 (98.6)	20245 (100.0)	98 (1.9)	5059 (98.1)	5157 (100.0)	133 (2.1)	6302 (97.9)	6435 (100.0)	231 (2.0)	11361 (98.0)	11592 (100.0)
Not available	32 (1.8)	1702 (98.2)	1734 (100.0)	12 (2.5)	466 (97.5)	478 (100.0)	25 (5.2)	455 (94.8)	480 (100.0)	37 (3.9)	921 (96.1)	958 (100.0)
Missing	15 (1.7)	857 (98.3)	872 (100.0)	14 (3.4)	397 (96.6)	411 (100.0)	19 (4.0)	461 (96.0)	480 (100.0)	33 (3.7)	858 (96.3)	891 (100.0)

*\*The outcome data was derived based on National Death Register data*

*Note: Patients with the status of "transferred to other centre", "lost to follow-up", "not available" and "missing" were categorised as "alive" patients*

**Table 5.16 Summary of 30-day readmission status of patients who underwent PCI, NCVD-PCI Registry, 2007 – 2014 (N = total no. of procedures for 30-day follow- up)**

	2007 – 2012		2013		2014		2013 – 2014	
	Total no. of procedures = 16329		Total no. of procedures = 2500		Total no. of procedures = 2070		Total no. of procedures = 4570	
<b>Readmission</b>	<b>No.</b>	<b>%</b>	<b>No.</b>	<b>%</b>	<b>No.</b>	<b>%</b>	<b>No.</b>	<b>%</b>
Yes	910	5.6	112	4.5	122	5.9	234	5.1
No	15370	94.1	2231	89.2	1772	85.6	4003	87.6
Missing	49	0.3	157	6.3	176	8.5	333	7.3
Readmission reason, No. (%)								
Non-cardiac			10	8.9	16	13.1	26	11.1
CHF	17	1.9	6	5.4	3	2.5	9	3.8
Recurrent angina	107	11.8	8	7.1	10	8.2	18	7.7
Arrhythmia	1	0.1	0	0	0	0	0	0
ACS			7	6.3	9	7.4	16	6.8
STEMI			2	33.3	4	57.1	6	46.2
NSTEMI			3	50	1	14.3	4	30.8
UA			1	16.7	2	28.6	3	23.1
Not available			0	.	2	.	2	.
Missing			1	.	0	.	1	.
Staged revascularisation			39	34.8	57	46.7	96	41.1
PCI			36	97.3	51	96.2	87	96.7
CABG			1	2.7	2	3.8	3	3.3
Not available			1	.	0	.	1	.
Missing			1	.	4	.	5	.
PCI-planned	505	55.5	16	14.4	0	0	16	6.8
PCI-unplanned	15	1.6	0	0	0	0	0	0
CABG	12	1.3	0	0	0	0	0	0
AMI	16	1.8	0	0	0	0	0	0
Others	181	19.8	8	7.1	0	0	8	3.4
Not available	18	2.0	9	8.0	14	11.4	23	9.9
Missing	38	4.2	9	8.0	13	10.7	22	9.4
<b>Total</b>	<b>910</b>	<b>100.0</b>	<b>112</b>	<b>99.9</b>	<b>122</b>	<b>100.0</b>	<b>234</b>	<b>100.0</b>

**Table 5.17 Procedural complications and clinical outcomes, according to PCI status, NCVD-PCI Registry, 2007 – 2014**

*Complications and clinical outcomes	2013 Total no. of patients = 6353										2014 Total no. of patients = 7783										
	Elective		NSTEMI/UA		AMI		Not available		Missing		Elective		NSTEMI/UA		AMI		Not available		Missing		
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	
Procedural complications																					
Periprocedural MI/Significant periprocedural MI	15	0.3	4	0.7	14	1.3	0	0	0	0	23	0.4	11	1.7	28	2.2	0	0	0	0	
Emergency reintervention/PCI	22	0.5	5	0.9	15	1.4	0	0	0	0	19	0.3	12	1.9	34	2.7	0	0	0	0	
Stent thrombosis	4	0.1	0	0	1	0.1	0	0	0	0	4	0.1	1	0.2	4	0.3	0	0	0	0	
Dissection	0	0	0	0	1	0.1	0	0	0	0	1	0.0	0	0	0	0	0	0	0	0	
Cardiac perforation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Coronary perforation	1	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
New ischaemia	1	0.0	0	0	1	0.1	0	0	0	0	2	0.0	1	0.2	3	0.2	0	0	0	0	
Reinfarction	0	0	1	0.2	1	0.1	0	0	0	0	1	0.0	1	0.2	0	0	0	0	0	0	
Cardiac tamponade	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Bail-out CABG	1	0.0	0	0	0	0	0	0	0	0	1	0.0	0	0	0	0	0	0	0	0	
Cardiogenic shock	9	0.2	2	0.3	30	2.7	0	0	0	0	4	0.1	3	0.5	41	3.2	0	0	0	0	
Arrhythmia	13	0.3	4	0.7	45	4.1	0	0	0	0	8	0.1	4	0.6	37	2.9	0	0	0	0	
TIA/stroke	3	0.1	0	0	2	0.2	0	0	0	0	0	0	0	0	2	0.2	0	0	0	0	
Tamponade	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0.2	0	0	0	0	
Contrast reaction	6	0.1	1	0.2	0	0	0	0	0	0	3	0.1	0	0	0	0	0	0	0	0	
New onset/worsen heart failure	3	0.1	1	0.2	8	0.7	0	0	0	0	1	0.0	0	0	9	0.7	0	0	0	0	
New renal impairment	20	0.4	10	1.7	15	1.4	0	0	0	0	19	0.3	2	0.3	9	0.7	0	0	0	0	
Bleeding	7	0.1	4	0.7	5	0.5	0	0	0	0	5	0.1	1	0.2	4	0.3	0	0	0	0	
Access site occlusion	0	0	0	0	0	0	0	0	0	0	1	0.0	0	0	0	0	0	0	0	0	
Loss of distal/radial pulse	0	0	0	0	0	0	0	0	0	0	1	0.0	0	0	0	0	0	0	0	0	
Dissection	1	0.0	1	0.2	1	0.1	0	0	0	0	3	0.1	0	0	0	0	0	0	0	0	
Pseudoaneurysm	2	0.0	0	0	0	0	0	0	0	0	5	0.1	0	0	1	0.1	0	0	0	0	
Vascular perforation	1	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

*\*Results are only presented for patients who had the complications or clinical outcomes*



*Complications and clinical outcomes	2007 – 2012 Total no. of patients = 24459										2013 – 2014 Total no. of patients =14136										
	Elective		NSTEMI/UA		AMI		Not available		Missing		Elective		NSTEMI/UA		AMI		Not available		Missing		
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	
Procedural complications																					
Periprocedural MI/Significant periprocedural MI	70	0.3	9	0.7	18	1.0	0	0	1	7.1	38	0.4	15	1.2	42	1.8	0	0	0	0	
Emergency reintervention/PCI	34	0.2	9	0.7	17	0.9	0	0	1	7.1	41	0.4	17	1.4	49	2.1	0	0	0	0	
Stent thrombosis	13	0.1	1	0.1	5	0.3	0	0	0	0	8	0.1	1	0.1	5	0.2	0	0	0	0	
Dissection	11	0.1	2	0.2	1	0.1	0	0	0	0	1	0.0	0	0	1	0.0	0	0	0	0	
Cardiac perforation											0	0	0	0	0	0	0	0	0	0	
Coronary perforation											1	0.0	0	0	0	0	0	0	0	0	
New ischaemia											3	0.0	1	0.1	4	0.2	0	0	0	0	
Reinfarction											1	0.0	2	0.2	1	0.0	0	0	0	0	
Cardiac tamponade											0	0	0	0	0	0	0	0	0	0	
Bail-out CABG	5	0.0	0	0	3	0.2	0	0	0	0	2	0.0	0	0	0	0	0	0	0	0	
Cardiogenic shock	37	0.2	15	1.2	56	3.1	0	0	0	0	13	0.1	5	0.4	71	3.0	0	0	0	0	
Arrhythmia	66	0.3	17	1.3	57	3.1	0	0	1	7.1	21	0.2	8	0.7	82	3.5	0	0	0	0	
TIA/stroke	6	0.0	2	0.2	2	0.1	0	0	0	0	3	0.0	0	0	4	0.2	0	0	0	0	
Tamponade	12	0.1	2	0.2	2	0.1	0	0	0	0	0	0	0	0	0.1	0	0	0	0	0	
Contrast reaction	11	0.1	0	0	4	0.2	0	0	0	0	9	0.1	1	0.1	0	0	0	0	0	0	
New onset/worsen heart failure	10	0.0	2	0.2	8	0.4	0	0	0	0	4	0	1	0.1	17	0.7	0	0	0	0	
New renal impairment	9	0.0	4	0.3	34	1.9	0	0	0	0	39	0.4	12	1.0	24	1.0	0	0	0	0	
Bleeding	84	0.4	19	1.5	24	1.3	0	0	1	7.1	12	0.1	5	0.4	9	0.4	0	0	0	0	
Access site occlusion	8	0.0	3	0.2	0	0	0	0	0	0	1	0.0	0	0	0	0	0	0	0	0	
Loss of distal/radial pulse	2	0.0	0	0	0	0	0	0	0	0	1	0.0	0	0	0	0	0	0	0	0	
Dissection	29	0.1	0	0	5	0.3	0	0	0	0	4	0.0	1	0.1	1	0.0	0	0	0	0	
Pseudoaneurysm	16	0.1	1	0.1	0	0	0	0	0	0	7	0.1	0	0	1	0.0	0	0	0	0	
Vascular perforation											1	0.0	0	0	0	0	0	0	0	0	

\*Results were only presented for patients who had the complications or clinical outcomes

**Table 5.18 Heart rate at presentation versus outcome, NCVD-PCI Registry, 2007 – 2014**

Heart rate at presentation (beats/minute)	2007 – 2012 Total no. of patients = 24459				2013 Total no. of patients = 6353				2014 Total no. of patients = 7783				2013 – 2014 Total no. of patients = 14136			
	*Death		Alive		*Death		Alive		*Death		Alive		*Death		Alive	
	No.	(%)	No.	(%)	No.	(%)	No.	(%)	No.	(%)	No.	(%)	No.	(%)	No.	(%)
< 90	153	41.2	19467	80.8	49	36.1	4604	74.1	65	35.3	5724	75.3	114	35.6	10328	74.8
≥ 90	165	44.5	2457	10.2	63	46.3	780	12.5	86	46.8	1057	13.9	149	46.6	1837	13.3
Missing	53	14.3	2164	9.0	24	17.6	833	13.4	33	17.9	818	10.8	57	17.8	1651	11.9
<b>Total</b>	<b>371</b>	<b>100.0</b>	<b>24088</b>	<b>100.0</b>	<b>136</b>	<b>100.0</b>	<b>6217</b>	<b>100.0</b>	<b>184</b>	<b>100.0</b>	<b>7599</b>	<b>100.0</b>	<b>320</b>	<b>100.0</b>	<b>13816</b>	<b>100.0</b>

\*The outcome data was derived based on National Death Register data

Note: Patients with the status of "transferred to other centre", "lost to follow-up", "not available" and "missing" were categorised as "alive" patients

**Table 5.19 Heart rate at presentation versus length of stay, NCVD-PCI Registry, 2007 – 2014**

Length of stay	2007 – 2012 Total no. of patients = 24088						2013 Total no. of patients = 6217						2014 Total no. of patients = 7599						2013 – 2014 Total no. of patients = 13816					
	v 90		^ 90		Missing		v 90		^ 90		Missing		v 90		^ 90		Missing		v 90		^ 90		Missing	
N	18985		2395		2101		4604		780		833		5721		1057		818		10325		1837		1651	
Mean (SD)	4.4 (16.1)		6.8 (28.4)		6.1 (29.5)		4.9 (15.8)		6.2 (20.4)		4.5 (13.5)		4.8 (14.0)		5.8 (13.0)		4.9 (14.0)		4.9 (14.8)		6.0 (16.6)		4.7 (13.7)	
Median, (min, max)	3.0 (1.0, 1098.0)		3.0 (1.0, 734.0)		3.0 (1.0, 736.0)		3.0 (1.0, 375.0)		4.0 (1.0, 513.0)		3.0 (1.0, 371.0)		3.0 (1.0, 369.0)		4.0 (1.0, 368.0)		3.0 (1.0, 367.0)		3.0 (1.0, 375.0)		4.0 (1.0, 513.0)		3.0 (1.0, 371.0)	
Negative/zero, No. (%)	268	1.4	30	1.2	12	0.6	0	0	0	0	0	0	3	0.1	0	0	0	0	3	0.0	0	0	0	0
Missing, No. (%)	214	1.1	32	1.3	51	2.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

\*Alive included patients transferred to another centres

**Table 5.20 Prognostic factors for in-hospital mortality among patients who underwent PCI, NCVD-PCI Registry, 2007 – 2014**

Factor	2007 – 2012 Total no. of patients = 23843					2013 – 2014 Total no. of patients = 14133				
	N	Hazard ratio	95% CI		*p-value	N	Hazard ratio	95% CI		*p-value
Age <sup>^</sup>	23843	1.12	1.03	1.22	0.007					
Gender										
Male (ref)						11816	1.00			
Female						2317	1.66	0.79	3.48	0.177
PCI status										
Elective (ref)	20801	1.00				10551	1.00			
NSTEMI/UA	1227	2.13	0.88	5.18	0.096	1221	3.04	1.09	8.52	<b>0.034</b>
AMI/STEMI	1780	3.98	2.02	7.85	<0.001	2361	4.20	1.64	10.77	<b>0.003</b>
**Diabetes mellitus										
No (ref)										
Yes										
**Hypertension										
No (ref)	6383	1.00								
Yes	17443	0.59	0.35	0.99	0.047					
Killip class <sup>\$</sup>										
I (ref)	6234	1.00								
II	2936	2.36	1.13	4.93	0.022					
III	200	2.41	0.87	6.67	0.090					
IV	393	3.63	1.58	8.32	0.002					
Killip class										
I & II (ref)						5939	1.00			
III & IV						550	2.97	1.47	6.02	<b>0.002</b>

\* using Cox regression with backward stepwise variable selection

\*\*The "No" category for these variables included "Not known" category

<sup>^</sup>Variables were not included in the variables' selection method for 2013 – 2014 analysis

<sup>\$</sup>Variables were recategorised for 2013 – 2014 analysis

Factor	2007 – 2012 Total no. of patients = 23843					2013 – 2014 Total no. of patients = 14133				
	N	Hazard ratio	95% CI		*p-value	N	Hazard ratio	95% CI		*p-value
Smoking status										
Never (ref)										
Former smokers										
Current smokers										
Left ventricular ejection fraction										
< 30	386	2.77	1.11	6.93	0.029	259	4.21	1.47	12.01	<b>0.007</b>
30 – 50	3549	1.37	0.61	3.09	0.448	2105	1.68	0.66	4.30	0.278
> 50 (ref)	4649	1.00				2675	1.00			
NYHA dyspnoea ≥ 3 or congestive heart failure^										
No (ref)	22265	1.00								
Yes	1557	2.01	1.18	3.43	0.010					
Cardiogenic shock^										
No (ref)	23683	1.00								
Yes	105	4.80	2.40	9.63	<0.001					
IABP^										
No (ref)	22902	1.00								
Yes	604	2.53	1.27	5.05	0.009					
Serum creatinine (> 200 μmol/L)										
No (ref)	20590	1.00				11447	1.00			
Yes	1116	1.88	1.06	3.34	0.03	616.00	3.42	1.64	7.11	<b>0.001</b>

\*using Cox regression with backward stepwise variable selection

\*\*The "No" category for these variables included the "Not known" category

^Variables were not included in the variables selection method for 2013 – 2014 analysis

\$Variables were recategorised for the 2013 – 2014 analysis

**Table 5.21a Prognostic factors for 30-days mortality among patients who underwent PCI, NCVD-PCI Registry, 2007 – 2014 (Multivariate analysis)**

Factor	2007 – 2012 Total no. of patients = 15169				2013 – 2014 Total no. of patients = 14133					
	N	Hazard ratio	95% CI		*p-value	N	Hazard ratio	95% CI		*p-value
Killip class <sup>s</sup>										
I & II (ref)						2120	1.00			
III & IV						114	5.98	2.69	13.27	< 0.001

<sup>s</sup>Variables were recategorised for 2013 – 2014 analysis

**Table 5.21b Prognostic factors for 30-days mortality among patients who underwent PCI, NCVD-PCI Registry, 2007 – 2014 (Forced model analysis)**

Factor	2007 – 2009 Total no. of patients = 10516				2013 – 2014 Total no. of patients = 14133					
	N	Hazard ratio	95% CI		*p-value	N	Hazard ratio	95% CI		*p-value
Age group <sup>s</sup>										
20 – < 30 (ref)										
30 – < 40										
40 – < 50										
50 – < 60										
60 – < 70										
70 – < 80										
≥ 80										
Age group <sup>s</sup>										
20 – < 40 (ref)						235	1.00			
40 – < 60						2327	0.71	0.16	3.21	0.653
≥ 60						1651	1.52	0.34	6.79	0.584
Gender										
Male (ref)	12496	1.00								
Female	2673	2.36	1.35	4.12	0.003					

Factor	2007 – 2009 Total no. of patients = 10516				2013 – 2014 Total no. of patients = 14133					
	N	Hazard ratio	95% CI		*p-value	N	Hazard ratio	95% CI		*p-value
PCI status										
Elective (ref)	13672	1.00				3189	1.00			
NSTEMI/UA	675	1.61	0.57	4.54	0.370	307	2.33	0.84	6.47	0.103
AMI/STEMI	803	1.11	0.27	4.64	0.885	717	1.52	0.63	3.65	0.352
**Myocardial infarction history										
No (ref)						2638	1.00			
Yes						1575	0.44	0.18	1.05	0.066
Killip class <sup>s</sup>										
I (ref)										
II										
III										
IV										
Killip class <sup>s</sup>										
I & II (ref)						2120	1.00			
III & IV						114	4.22	1.69	10.55	<b>0.002</b>
Heart rate										
< 40										
40 – < 60										
60 – < 80 (ref)										
80 – < 100										
≥ 100										
Extent of coronary artery disease										
Single vessel disease (ref)						2832	1.00			
Multi vessels disease						1189	1.76	0.83	3.73	0.137
Left main/LMS^^						128	2.02	0.44	9.32	0.369
Graft^^						31	20.64	2.39	178.01	<b>0.006</b>

Factor	2007 – 2009 Total no. of patients = 10516				2013 – 2014 Total no. of patients = 14133					
	N	Hazard ratio	95% CI		*p-value	N	Hazard ratio	95% CI		*p-value
Left ventricular ejection fraction										
< 30	255	5.26	2.34	11.81	<0.001					
30 – 50	2535	1.50	0.85	2.64	0.157					
> 50 (ref)	3420	1.00								
Serum creatinine > 200 µmol/L										
No (ref)	13303	1.00								
Yes	678	3.19	1.65	6.18	0.001					
**Cerebrovascular disease										
No (ref)						4068	1.00			
Yes						145	1.14	0.25	5.10	0.865
Previous PCI										
No (ref)						3238	1.00			
Yes						975	0.85	0.29	2.50	0.771

\*using Cox regression

\*\*The "No" category for these variables included the "Not known" category

^Variables were not included in the variables selection method for the 2013 – 2014 analysis

^^Variables were not included in the 2007 – 2012 analysis

\$Variables were recategorised for 2013 – 2014 analysis