

SUPPLEMENT 1

eTable 1 Baseline characteristics for 658110 patients 35-84 years with a first-time acute coronary event in Sweden from 1987 to 2010 by age group

Age group	In hospital			Out of hospital		
	Men	Women	p-value	Men	Women	p-value
Age 35-54						
Number, n (%)	37720 (79.3)	9870 (20.7)		7672 (83.4)	1522 (16.6)	
Mean age, years (SD)	48.6 (4.6)	48.5 (4.6)	0.850	48.7 (4.6)	48.6 (4.7)	0.307
Diabetes, n (%)	4389 (11.6)	1725 (17.5)	<0.001	812 (10.6)	239 (15.7)	<0.001
Hypertension, n (%)	5912 (15.7)	2055 (20.8)	<0.001	732 (9.5)	210 (13.8)	<0.001
Stroke, n (%)	760 (2.0)	286 (2.9)	<0.001	305 (4.0)	88 (5.8)	0.002
CHD ¹ , n (%)	2974 (7.9)	788 (8.0)	0.761	753 (9.8)	146 (9.6)	0.826
Heart failure	548 (1.5)	228 (2.3)	<0.001	484 (6.3)	115 (7.6)	0.081
Atrial fibrillation, n (%)	455 (1.2)	106 (1.1)	0.302	256 (3.3)	21 (1.4)	<0.001
Chronic respiratory disease, n (%)	896 (2.4)	522 (5.3)	<0.001	195 (2.5)	102 (6.7)	<0.001
Renal insufficiency, n (%)	466 (1.2)	229 (2.3)	<0.001	122 (1.6)	49 (3.2)	<0.001
PCI ² , n (%)	8171 (21.7)	1841 (18.7)	<0.001	59 (0.8)	17 (1.1)	0.225
Malignancy, n (%)	626 (1.7)	447 (4.5)	<0.001	151 (2.0)	93 (6.1)	<0.001
Age 55-64						
Number, n (%)	63523 (75.4)	20710 (24.6)		17729 (79.7)	4511 (20.3)	
Mean age, years (SD)	59.9 (2.8)	60.3 (2.8)	<0.001	60.3 (2.8)	60.6 (2.7)	<0.001
Diabetes, n (%)	9377 (14.8)	3803 (18.4)	<0.001	2264 (12.8)	795 (17.6)	<0.001
Hypertension, n (%)	13792 (21.7)	5357 (25.9)	<0.001	2518 (14.2)	759 (16.8)	<0.001
Stroke, n (%)	2972 (4.7)	1126 (5.4)	<0.001	1360 (7.7)	372 (8.2)	0.209
CHD ¹ , n (%)	8695 (13.7)	2550 (12.3)	<0.001	3144 (17.7)	705 (15.6)	0.001
Heart failure	2077 (3.3)	881 (4.3)	<0.001	2123 (12.0)	629 (13.9)	<0.001
Atrial fibrillation, n (%)	2103 (3.3)	608 (2.9)	0.009	1372 (7.7)	259 (5.7)	<0.001
Chronic respiratory disease n (%)	2706 (4.3)	1889 (9.1)	<0.001	922 (5.2)	447 (9.9)	<0.001
Renal insufficiency, n (%)	1013 (1.6)	423 (2.0)	<0.001	315 (1.8)	119 (2.6)	<0.001
PCI ² , n (%)	13116 (20.6)	3475 (16.8)	<0.001	172 (1.0)	45 (1.0)	0.934
Malignancy, n (%)	2350 (3.7)	1560 (7.5)	<0.001	835 (4.7)	444 (9.8)	<0.001

Age 65-74

Number, n (%)	96193 (66.0)	49521 (34.0)		38582 (72.2)	14860 (27.8)	
Mean age, years (SD)	69.8 (2.9)	70.2 (2.8)	<0.001	70.0 (2.8)	70.5 (2.8)	<0.001
Diabetes, n (%)	16486 (17.1)	10407 (21.0)	<0.001	5603 (14.5)	2678 (18.0)	<0.001
Hypertension, n (%)	21995 (22.9)	13819 (27.9)	<0.001	6157 (16.0)	2897 (19.5)	<0.001
Stroke, n (%)	8918 (9.3)	4294 (8.7)	<0.001	5235 (13.6)	2079 (14.0)	0.208
CHD¹, n (%)	19408 (20.2)	8076 (16.3)	<0.001	9851 (25.5)	3077 (20.7)	<0.001
Heart failure	7128 (7.4)	4083 (8.2)	<0.001	8192 (21.2)	3393 (22.8)	<0.001
Atrial fibrillation, n (%)	6631 (6.9)	3169 (6.4)	<0.001	5112 (13.2)	1766 (11.9)	<0.001
Chronic respiratory disease n (%)	7086 (7.4)	4974 (10.0)	<0.001	3199 (8.3)	1626 (10.9)	<0.001
Renal insufficiency, n (%)	2358 (2.5)	1075 (2.2)	0.001	3042 (7.9)	407 (2.7)	0.831
PCI², n (%)	11977 (12.5)	5092 (10.3)	<0.001	330 (0.9)	84 (0.6)	0.001
Malignancy, n (%)	7817 (8.1)	5002 (10.1)	<0.001	3400 (8.8)	1740 (11.7)	<0.001

Age 75-84

Number, n (%)	103506 (53.7)	89377 (46.3)		58534 (56.9)	44280 (43.1)	
Mean age, years (SD)	79.3 (2.8)	79.7 (2.8)		79.6 (2.8)	80.3 (2.8)	<0.001
Diabetes, n (%)	17759 (17.2)	18197 (20.4)	<0.001	8352 (14.3)	7248 (16.4)	<0.001
Hypertension, n (%)	24223 (23.4)	27442 (30.7)	<0.001	9878 (16.9)	9518 (21.5)	<0.001
Stroke, n (%)	14914 (14.4)	11560 (12.9)	<0.001	11352 (19.4)	8628 (19.5)	0.720
CHD¹, n (%)	25848 (25.0)	19019 (21.3)	<0.001	18733 (32.0)	12316 (27.8)	<0.001
Heart failure	14374 (13.9)	13172 (14.7)	<0.001	18828 (32.2)	14050 (31.7)	0.140
Atrial fibrillation, n (%)	12567 (12.1)	11093 (12.4)	0.072	12211 (20.9)	8823 (19.9)	<0.001
Chronic respiratory disease n (%)	10066 (9.7)	8339 (9.3)	0.003	6078 (10.4)	4188 (9.5)	<0.001
Renal insufficiency, n (%)	4165 (4.0)	2266 (2.5)	<0.001	2274 (3.9)	1088 (2.5)	<0.001
PCI², n (%)	7653 (7.4)	5429 (6.1)	<0.001	448 (0.8)	172 (0.4)	<0.001
Malignancy, n (%)	13626 (13.2)	10598 (11.9)	<0.001	8189 (14.0)	5547 (12.5)	<0.001

1 Any coronary heart disease (CHD) diagnosis except acute myocardial infarction (AMI)

2 Percutaneous coronary intervention

SUPPLEMENT 2

eTable 2 Baseline characteristics for 658110 patients 35-84 years with a first-time acute coronary event in Sweden from 1987 to 2010 by period

	In hospital				Out of Hospital			
	1987-1992	1993-1998	1999-2004	2005-2010	1987-1992	1993-1998	1999-2004	2005-2010
Diabetes								
Men	12.9	15.2	17.3	18.9	12.0	14.1	14.7	16.0
Women	19.3	19.7	20.4	21.4	16.7	17.1	16.5	17.0
Hypertension								
Men	11.4	17.4	23.4	37.6	9.4	14.2	18.2	26.4
Women	17.1	23.0	29.9	47.4	14.3	18.1	23.1	33.1
Stroke								
Men	7.5	9.6	10.6	9.1	13.0	16.4	16.4	14.3
Women	8.5	10.0	11.6	10.8	15.5	18.0	18.5	17.1
CHD								
Men	17.2	20.2	19.7	18.7	26.5	28.1	26.4	24.1
Women	17.0	19.0	18.5	17.4	27.2	25.3	23.2	22.2
HF								
Men	7.1	9.0	8.8	7.1	24.6	27.3	23.0	20.1
Women	10.1	11.8	11.5	9.9	30.6	29.6	25.3	23.4
AF								
Men	5.1	7.2	8.4	8.5	12.0	16.3	17.5	18.0
Women	6.5	8.4	10.2	10.6	13.9	17.4	18.3	18.7
Chronic resp.d								
Men	5.4	6.9	7.5	8.0	7.5	8.7	8.6	9.7
Women	5.4	8.0	11.0	13.4	7.0	9.4	11.1	13.9
Renal								
Men	0.9	2.3	3.3	4.4	1.3	2.7	4.0	5.6
Women	0.9	1.8	2.8	4.2	1.2	2.3	3.1	4.8
PCI								
Men	0.0	1.9	15.3	40.3	0.0	0.2	1.1	2.9
Women	0.0	1.3	10.2	28.2	0.0	0.1	0.7	1.8

	In hospital				Out of Hospital			
	1987-1992	1993-1998	1999-2004	2005-2010	1987-1992	1993-1998	1999-2004	2005-2010
Malignancy								
Men	7.0	8.0	8.6	9.1	9.7	10.7	10.6	10.2
Women	8.0	9.7	11.3	12.8	10.1	12.1	13.3	13.9

SUPPLEMENT 3

Number of cases

Figure 1

35-54 years

Period	HR ¹	HR ²	Men, n (%)	Women, n (%)
1987-1992 Total cases (N)	1.52 (1.30-1.78)	1.27 (1.08-1.49)	617 (6.21) 9936	203 (9.33) 2176
1993-1998 Total cases (N)	1.55 (1.29-1.86)	1.37 (1.14-1.65)	432 (4.26) 10141	157 (6.58) 2386
1999-2004 Total cases (N)	1.49 (1.23-1.80)	1.26 (1.04-1.54)	338 (3.72) 9086	148 (5.48) 2701
2005-2010 Total cases (N)	1.63 (1.28-2.08)	1.25 (0.97-1.61)	195 (2.28) 8553	96 (3.68) 2609
1987-2010 Total cases (N)	1.47 (1.34-1.61)	1.26 (1.15-1.39)	1582 (4.19) 37715	604 (6.12) 9871

55-64 years

Period	HR ¹	HR ²	Men, n (%)	Women, n (%)
1987-1992 Total cases (N)	1.24 (1.14-1.35)	1.15 (1.05-1.26)	1837 (11.10) 16550	712 (13.73) 5187
1993-1998 Total cases (N)	1.12 (1.01-1.26)	1.05 (0.94-1.18)	1178 (8.18) 14401	433 (9.37) 4621
1999-2004 Total cases (N)	1.41 (1.25-1.59)	1.29 (1.14-1.46)	824 (5.27) 15636	403 (7.48) 5388
2005-2010 Total cases (N)	1.28 (1.12-1.46)	1.05 (0.91-1.20)	743 (4.39) 16925	315 (5.65) 5575

1987-2010	0.81 (0.77-0.86)	0.89 (0.85-0.94)	4582 (7.21)	1863 (8.97)
Total cases (N)			63511	20771
65-74 years				
Period	HR¹	HR²	Men, n (%)	Women, n (%)
1987-1992	1.03 (0.99-1.08)	1.01 (0.97-1.06)	5938 (20.27)	3170 (21.33)
Total cases (N)			29295	14862
1993-1998	1.07 (1.02-1.13)	1.06 (1.01-1.12)	3850 (15.58)	2186 (16.91)
Total cases (N)			24711	12927
1999-2004	0.98 (0.92-1.05)	0.97 (0.91-1.03)	2520 (11.62)	1342 (11.61)
Total cases (N)			21687	11559
2005-2010	1.00 (0.92-1.09)	0.96 (0.88-1.04)	1618 (7.90)	826 (8.12)
Total cases (N)			20481	10172
1987-2010	1.03 (1.00-1.06)	1.01 (0.99-1.04)	13926 (14.48)	7524 (15.19)
Total cases (N)			96173	49520
75-84 years				
Period	HR¹	HR²	Men, n (%)	Women, n (%)
1987-1992	0.93 (0.90-0.96)	0.93 (0.90-0.96)	8645 (32.87)	7354 (31.55)
Total cases (N)			26301	23309
1993-1998	0.95 (0.91-0.98)	0.97 (0.93-1.00)	6919 (26.97)	5762 (26.24)
Total cases (N)			25654	21959
1999-2004	0.93 (0.89-0.97)	0.95 (0.92-0.99)	5807 (20.66)	4769 (19.72)
Total cases (N)			28107	24184
2005-2010	0.92 (0.88-0.97)	0.94 (0.90-0.99)	3769 (16.08)	3049 (15.31)
Total cases (N)			23439	19915
1987-2010	0.94 (0.92-0.96)	0.96 (0.94-0.98)	25140 (24.29)	20934 (23.42)
Total cases (N)			103502	89367

Figure 2**35-54 years**

Period	HR¹	HR²	Men, n (%)	Women, n (%)
1987-1992	1.01 (0.93-1.10)	0.96 (0.88-1.05)	2873 (23.57)	618 (23.86)
Total cases (N)			12189	2590
1993-1998	0.92 (0.84-1.01)	0.91 (0.83-1.00)	2659 (21.51)	556 (19.96)
Total cases (N)			12362	2786
1999-2004	0.89 (0.81-0.97)	0.82 (0.75-0.91)	2107 (19.41)	533 (17.27)
Total cases (N)			10855	3086
2005-2010	0.88 (0.79-0.98)	0.72 (0.64-0.80)	1613 (16.16)	419 (14.30)
Total cases (N)			9981	2930
1987-2010	0.91 (0.87-0.96)	0.87 (0.83-0.92)	9252 (20.38)	2126 (18.66)
Total cases (N)			45388	11392

55-64 years

Period	HR¹	HR²	Men, n (%)	Women, n (%)
1987-1992	0.93 (0.89-0.98)	0.92 (0.88-0.97)	7439 (33.58)	2074 (31.98)
Total cases (N)			22153	6485
1993-1998	0.88 (0.83-0.93)	0.86 (0.82-0.91)	5480 (29.30)	1489 (26.22)
Total cases (N)			18703	5679

1999-2004	0.90 (0.85-0.96)	0.87 (0.82-0.93)	4846 (24.64)	1454 (22.57)
Total cases (N)			19667	6442
2005-2010	0.92 (0.87-0.98)	0.82 (0.77-0.88)	4546 (21.93)	1357 (20.52)
Total cases (N)			20730	6613
1987-2010	0.90 (0.88-0.93)	0.88 (0.85-0.90)	22311 (27.46)	6374 (25.27)
Total cases (N)			81253	25219
65-74 years				
Period	HR¹	HR²	Men, n (%)	Women, n (%)
1987-1992	0.88 (0.86-0.90)	0.88 (0.86-0.91)	19681 (45.73)	8322 (41.58)
Total cases (N)			43037	20014
1993-1998	0.88 (0.85-0.90)	0.90 (0.87-0.93)	14765 (41.44)	17190 (37.51)
Total cases (N)			35630	45828
1999-2004	0.85 (0.82-0.88)	0.86 (0.83-0.89)	10079 (34.45)	4376 (29.99)
Total cases (N)			29257	14592
2005-2010	0.85 (0.81-0.88)	0.83 (0.80-0.87)	7983 (29.83)	3238 (25.73)
Total cases (N)			26762	12585
1987-2010	0.87 (0.85-0.88)	0.88 (0.86-0.89)	52508 (38.99)	33126 (35.61)
Total cases (N)			134686	93018

75-84 years

Period	HR¹	HR²	Men, n (%)	Women, n (%)
1987-1992	0.91 (0.90-0.93)	0.93 (0.91-0.94)	26739 (60.23)	21501 (57.40)
Total cases (N)			44395	37458
1993-1998	0.93 (0.91-0.95)	0.95 (0.94-0.97)	23502 (55.64)	18550 (53.38)
Total cases (N)			42239	34751
1999-2004	0.91 (0.89-0.93)	0.93 (0.91-0.96)	19023 (46.03)	14743 (43.16)
Total cases (N)			41327	34159
2005-2010	0.87 (0.85-0.90)	0.89 (0.87-0.92)	14404 (42.30)	10416 (38.17)
Total cases (N)				
1987-2010	0.92 (0.91-0.92)	0.94 (0.93-0.95)	83668 (51.64)	65210 (48.79)
Total cases (N)			162014	133656

Figure 3**35-54 years**

Period	HR¹	HR²	Men, n (%)	Women, n (%)
1987-1992	1.46 (1.15-1.86)	1.12 (0.87-1.44)	280 (3.00)	86 (4.40)
Total cases (N)			9333	1955
1993-1998	1.08 (0.80-1.44)	0.91 (0.67-1.22)	226 (2.30)	56 (2.50)
Total cases (N)			9826	2240
1999-2004	1.27 (0.93-1.74)	0.99 (0.72-1.36)	146 (1.70)	54 (2.10)
Total cases (N)			8588	2571
2005-2010	1.33 (0.91-1.93)	0.88 (0.60-1.30)	97 (1.20)	38 (1.50)
Total cases (N)			8083	2533
1987-2010	1.22 (1.06-1.42)	0.98 (0.84-1.14)	749 (2.09)	234 (2.52)
Total cases (N)			35831	9299

55-64 years

Period	HR¹	HR²	Men, n (%)	Women, n (%)
1987-1992	1.08 (0.94-1.24)	0.96 (0.84-1.10)	855 (5.81)	283 (6.41)
Total cases (N)			14716	4415
1993-1998	1.12 (0.95-1.32)	1.00 (0.85-1.18)	553 (4.18)	203 (4.84)
Total cases (N)			13230	4194

1999-2004	1.18 (1.00-1.38)	0.99 (0.84-1.16)	519 (3.50)	212 (4.25)
Total cases (N)			14829	4988

2005-2010	1.43 (1.21-1.68)	1.09 (0.92-1.29)	452 (2.79)	212 (4.03)
Total cases (N)			16201	5261

1987-2010	1.17 (1.08-1.26)	1.02 (0.95-1.10)	2379 (4.03)	910 (4.83)
Total cases (N)			58975	18858

65-74 years

Period	HR¹	HR²	Men, n (%)	Women, n (%)
1987-1992	0.94 (0.89-1.01)	0.90 (0.84-0.95)	2885 (12.35)	1409 (12.05)
Total cases (N)			23360	11693

1993-1998	0.90 (0.83-0.97)	0.86 (0.79-0.93)	2030 (9.73)	972 (9.05)
Total cases (N)			20863	10740

1999-2004	0.95 (0.87-1.03)	0.89 (0.82-0.97)	1645 (8.58)	851 (8.33)
Total cases (N)			19172	10216

2005-2010	1.13 (1.03-1.24)	1.01 (0.92-1.11)	1186 (6.29)	687 (7.35)
Total cases (N)			18855	9347

1987-2010	0.96 (0.92-1.00)	0.92 (0.88-0.95)	7746 (9.42)	3919 (9.33)
Total cases (N)			82251	41996

75-84 years

Period	HR¹	HR²	Men, n (%)	Women, n (%)
1987-1992	0.92 (0.88-0.97)	0.90 (0.86-0.94)	4224 (23.92)	3675 (23.03)
Total cases (N)			17659	15957
1993-1998	0.90 (0.86-0.95)	0.92 (0.88-0.97)	3734 (19.93)	3025 (18.67)
Total cases (N)			18736	16202
1999-2004	0.88 (0.84-0.92)	0.89 (0.85-0.93)	4214 (18.90)	3379 (17.41)
Total cases (N)			22296	19408
2005-2010	0.90 (0.85-0.95)	0.88 (0.84-0.93)	3211 (16.32)	2595 (15.38)
Total cases (N)			19675	16873
1987-2010	0.91 (0.89-0.93)	0.91 (0.89-0.93)	15383 (19.63)	12674 (18.52)
Total cases (N)			78366	68441

1 Age-adjusted

2 Multiadjusted for age, diabetes, hypertension, stroke, heart failure, atrial fibrillation, chronic respiratory disease, percutaneous coronary intervention (PCI), renal insufficiency and malignancy
For every hazard ratio the group of men are set as a reference in each period and age group

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