# Supplementary data

#### Online table 1

Patient outcomes/readmission 30 days af	ter discharge with respect to demog	raphic, social and or	ganisational factors	S
· ·		Not	<u> </u>	
		readmitted	Readmitted	Total
		(n=619)	(n=151)	(n=770)
Demographic factors		(row perc	entages)	(column
				percentages
Age	65-77 years	309 (82)	68 (18)	377 (49)
	78-98 years	310 (79)	83 (21)	393 (51)
Gender	Female	307 (83)	61 (17)	368 (48)
	Male	312 (78)	90 (22)	402 (52)
Residence by city size	Lived in cities with ≤4999	352 (82)	78 (18)	430 (56)
	inhabitants			
	Lived in cities with ≥5000	267 (79)	73 (22)	340 (44)
	inhabitants			
Social factors				
Education	Basic school	299 (78)	85 (22)	384 (50)
	Vocational education	196 (83)	39 (16)	235 (31)
	Higher education	87 (86)	14 (14)	101 (13)
	Missing	37 (74)	13 (26)	50 (7)
Income	First quartile (lowest income)	144 (75)	48 (25)	192 (25)
	Second quartile	158 (82)	35 (18)	193 (25)
	Third quartile	154 (80)	39 (20)	193 (25)
	Fourth quartile (highest	163 (85)	29 (15)	192 (25)
	income)			
Children living close by	No	385 (80)	94 (20)	479 (62)
	Yes	234 (80)	57 (20)	291 (38)
Spouse with or without comorbidity (based on Charlson	Spouse with CCI of 0-1	214 (79)	56 (21)	270 (35)
Comorbidity Index/CCI)	Spouse with CCI of 2+	66 (86)	11 (14)	77 (10)
	No spouse	339 (80)	84 (20)	423 (55)
Organisational factors	·			
Municipality of residence	Holbæk	250 (80)	61 (20)	311 (40)
	Kalundborg	179 (82)	39 (18)	218 (28)
	Odsherred	190 (79)	51 (21)	241 (31)
Distance to GP	64-2613 (median) meters	277 (79)	72 (21)	349 (45)
	More than 2613 meters	272 (82)	60 (18)	332 (43)
	Missing	70 (79)	19 (21)	89 (12)
Contact with GP within one month before index admission	1-4 contacts	363 (81)	84 (19)	447 (58)
	5+ contacts	256 (79)	67 (21)	323 (42)
Contact with emergency doctor within one month before	No	363 (83)	74 (17)	437 (57)
index admission	Yes	256 (77)	77 (23)	333 (43)
Need of <i>personal assistance</i> before admission	No	449 (81)	108 (19)	557 (72)
	Yes	170 (80)	43 (20)	213 (28)
Need of practical assistance before admission	No	473 (80)	116 (20)	589 (77)
	Yes	146 (81)	35 (19)	181 (24)

NOTE: The following covariates are not presented because of insufficient number of observations (<10 readmissions within 30 days): (1) Clinical assessment of strained social network and (2) clinical assessment of higher need for homecare after discharge.

### Online table 2

	Patient outcome/	readmission 30 days after o	discharge wit	h respect to health-related factors
		Not readmitted	Readmitted	Total
		n=619	n=151	n=770
Health-related factors		Absolute no. (horizontal f		Absolute no. (vertical frequency)
Main diagnosis related to atypical symptoms	No	463 (79)	123 (21)	586 (76)
	Yes	156 (85)	28 (15)	184 (24)
Main diagnosis related to the respiratory system	No	546 (81)	125 (19)	671 (87)
	Yes	73 (74)	26 (26)	99 (13)
Main diagnosis related to the circulatory system	No	432 (80)	109 (20)	541 (70)
	Yes	187 (82)	42 (18)	229 (30)
Charlson Comorbidity Index score	0-1	256 (86)	43 (14)	308 (40)
(median=2; range, 0-12)	2-3	215 (79)	56 (21)	271 (35)
	4+	139 (73)	52 (27)	191 (25)
Polypharmacy (5 drugs or more)	No	192 (86)	32 (14)	224 (29)
·	Yes	427 (78)	199 (22)	546 (71)
Previous hospitalization within 3-month period	No	464 (82)	102 (18)	566 (74)
·	Yes	155 (76)	49 (24)	204 (27)
Length of hospital stay	Five days or less	341 (83)	68 (17)	409 (53)
(median=5 (range 0-145) days)	more than five days	278 (77)	83 (23)	361 (47)
Clinical assessment of cognitive problems (not dementia)	No	583 (81)	137 (19)	720 (94)
·	Yes	36 (72)	14 (28)	50 (6)
Clinical assessment of loss in ADL	No	508 (81)	123 (20)	631 (82)
·	Yes	111 (80)	28 (20)	139 (18)
	No	580 (81)	136 (19)	716 (93)
Thyroid disease	Yes	39 (72)	15 (28)	54 (7)
Dha ana balanta ann 1915 a	No	514 (81)	122 (19)	636 (83)
Rheumatologic condition	Yes	105 (78)	29 (22)	134 (17)
2	No	478 (82)	104 (18)	582 (76)
Respiratory disease	Yes	141 (75)	47 (25)	188 (24)
	No	410 (83)	84 (17)	494 (64)
Psychological disorder (sleep disorder, depression)	Yes	209 (76)	67 (24)	276 (36)
2 .	No	355 (83)	72 (17)	472 (61)
Pain	Yes	264 (77)	79 (23)	343 (39)
Gout disease	No	577 (81)	140 (20)	717 (93)
	Yes	42 (79)	11 (21)	53 (7)
Glaucoma	No	596 (81)	140 (19)	736 (96)
	Yes	23 (68)	11 (32)	34 (4)
A - 1 - 1	No	432 (84)	80 (16)	512 (65)
Acid disorder	Yes	187 (73)	71 (28)	258 (35)
	No	567 (80)	138 (20)	705 (92)
Bone diseases	Yes	52 (80)	13 (20)	65 (8)
Epilepsy	No	562 (81)	135 (19)	697 (91)
	Yes	57 (78)	16 (22)	73 (9)
	No	517 (81)	122 (19)	639 (83)
Diabetes	Yes	102 (78)	29 (22)	131 (17)
		-0- (70)		, ,
Cardiovascular disease	No	130 (84)	25 (16)	155 (20)

NOTE: The following covariates are not presented because of insufficient number of observations (<10 readmissions within 30 days): (1) Dementia (both from clinical assessment and register-based information), (2) cancer, (3) intestinal disease, (4) anemia, (5) migraine, (6) psychosis, (7) tuberculosis, (8) HIV, Parkinson (5) and (9) hyperlipidemia.

## Online table 3

•			12 to 14 September 2012 from Department C) the patients who were screened as	
		A) All patients discharged (n=2,026)	B) Patients for whom screening data	C) Patients screened and included
			were incomplete (n=366)	(n=770)
		Absolute no. (column percentages)		
	Median (min-max)	77 (65-102)	76 (65-102)	78 (65-98)
Age	77 years or less	1046 (52)	195 (53)	377 (49)
	78 years or more	980 (48)	171 (47)	393 (51)
Gender	Female	1016 (50)	189 (52)	368 (48)
	Male	1010 (50)	177 (48)	402 (52)
	Holbæk	875 (43)	180 (49)	311 (40)
Municipality	Kalundborg	558 (29)	81 (22)	218 (28)
	Odsherred	593 (28)	105 (29)	241 (31)
	Primary school	1018 (50)	118 (51)	434 (50)
Educational	Vocational education	616 (30)	95 (26)	235 (31)
level	Higher education	255 (13)	52 (14)	101 (13)
	Missing	137 (7)	31 (9)	50 (7)

## Online Figure 1: Receiver Operating Curve (ROC).

Online figure 1		
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Online Figure 2: Calibration diag	ram with four groups

Online figure 2

Online figure 3: Calibration diagram with ten groups

Online figure 3