

**Additional file 2: Diagnosed comorbidity complexes of community-living dementia patients and control subjects stratified by gender**

Diagnosis group	Men (N=9,973; 1,684 cases; 8,289 control subjects)			Women (N=23,146; 3,840 cases; 19,306 control subjects)		
	Case (%)	Control (%)	OR*	Case (%)	Control (%)	OR*
<b>Neoplasms</b>						
Cancer (all)	37.4	35.9	1.03 (0.92-1.15)	23.4	24.1	0.97 (0.89-1.05)
<b>Diseases of the blood and blood-forming organs</b>						
Anaemia	26.5	19.8	1.41 (1.25-1.60)	24.7	18.8	1.40 (1.29-1.52)
<b>Endocrine, nutritional and metabolic diseases</b>						
Thyroid dysfunction	19.7	17.7	1.10 (0.97-1.26)	30.4	32.6	0.93 (0.86-1.00)
Diabetes	49.6	40.0	1.41 (1.27-1.57)	44.7	38.6	1.29 (1.20-1.38)
Disorders of lipoprotein metabolism and other lipidaemias	51.3	51.3	0.95 (0.86-1.06)	47.4	52.2	0.86 (0.80-0.92)
Fluids/electrolyte disorders	29.1	16.9	1.96 (1.74-2.21)	29.6	20.3	1.61 (1.49-1.74)
<b>Mental and behavioural disorders</b>						
Psychotic/neurotic disorders	20.8	13.4	1.66 (1.45-1.89)	27.6	19.8	1.62 (1.49-1.75)
Depression	25.4	10.1	2.94 (2.58-3.35)	34.3	20.0	2.11 (1.96-2.28)
Insomnia	16.3	9.5	1.81 (1.56-2.10)	17.2	13.0	1.36 (1.23-1.49)
<b>Diseases of the nervous system</b>						
Parkinson's disease	14.8	2.9	5.73 (4.75-6.92)	8.2	2.4	3.57 (3.08-4.14)
<b>Diseases of the eye and ear</b>						
Severe vision reduction	43.1	47.3	0.81 (0.73-0.90)	41.9	51.3	0.68 (0.64-0.73)
Severe hearing loss	22.7	20.7	1.09 (0.96-1.24)	18.8	17.3	1.06 (0.97-1.16)
<b>Diseases of the circulatory system</b>						
Hypertension	75.4	73.1	1.03 (0.92-1.16)	77.0	79.7	0.83 (0.76-0.90)
Coronary artery disease (CAD)	48.8	42.9	1.22 (1.10-1.35)	38.6	36.4	1.06 (0.98-1.13)
Cardiac arrhythmias	35.1	31.6	1.14 (1.02-1.27)	28.8	27.4	1.03 (0.96-1.12)
Cardiac insufficiency	39.2	25.8	1.84 (1.64-2.05)	44.4	33.9	1.45 (1.35-1.56)
Atherosclerosis/peripheral arterial occlusive disease	50.9	32.3	2.09 (1.88-2.33)	43.1	29.8	1.75 (1.63-1.87)
Cerebral ischaemia/chronic stroke	38.0	15.6	3.23 (2.88-3.62)	26.7	13.8	2.20 (2.03-2.39)
Lower limb varicosis	19.2	16.5	1.17(1.02-1.34)	29.8	29.5	1.02 (0.95-1.10)

**Diseases of the respiratory system**

Pneumonia	11.9	6.2	1.98 (1.66-2.35)	7.4	4.4	1.69 (1.47-1.95)
Asthma/chronic obstructive pulmonary disease (COPD)	35.0	31.0	1.16 (1.04-1.30)	23.3	22.9	1.02 (0.9-1.11)

**Diseases of the musculoskeletal system and connective tissue**

Arthritis	14.9	15.3	0.95 (0.82-1.10)	12.1	13.1	0.92 (0.83-1.02)
Joint arthrosis	38.3	39.6	0.91 (0.82-1.02)	47.3	50.6	0.87 (0.81-0.93)
Purine/pyrimidine metabolism disorders/gout	35.3	36.9	0.90 (0.81-1.01)	25.0	24.9	1.00 (0.92-1.08)
Low back pain	54.5	55.9	0.90 (0.81-1.00)	58.0	60.8	0.91 (0.85-0.97)
Osteoporosis	9.1	6.5	1.40 (1.16-1.69)	31.6	29.3	1.11 (1.03-1.19)

**Diseases of the genitourinary system**

Renal insufficiency/failure	29.2	20.2	1.59 (1.41-1.79)	17.8	14.2	1.26 (1.15-1.38)
Incontinence	43.0	17.5	3.46 (3.09-3.88)	45.5	25.6	2.38 (2.22-2.56)

**Injuries, fractures and fall risks**

Fractures and injuries	35.1	27.6	1.38 (1.23-1.54)	40.2	32.2	1.39 (1.29-1.49)
Fall risk and dizziness	24.9	15.2	1.80 (1.59-2.05)	29.0	22.0	1.41 (1.30-1.52)

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\*ORs are adjusted for age.