

**Appendix 4.** Prevalence and composition of diagnostic clusters in women aged 45-64 years (n= 217,823).

Cluster order number, n	Prevalence 1 (%)*	Prevalence 2 (%)†	Blocks of diagnoses	Prevalence in group‡, %	Prevalence in cluster, %	Most prevalent diagnoses of the block	AU p-value**
<b>WC1<sup>^</sup></b> 178,849	82.1	52.9	M50-M54:Other dorsopathies	35.8	43.5	M54 Dorsalgia	0.79 (0.74-0.85)
			F40-F48:Neurotic, stress-related and somatoform disorders	27.3	33.2	F41 Other anxiety disorders	
			M70-M79:Other soft tissue disorders	27.0	32.8	M79 Other soft tissue disorders, not elsewhere classified	
			N80-N98:Noninflammatory disorders of female genital tract	24.2	29.5	N95 Menopausal and other perimenopausal disorders	
			M20-M25:Other joint disorders	18.6	22.6	M25 Other joint disorders, not elsewhere classified	
			I80-I89:Diseases of veins, lymphatic vessels and lymph nodes, not elsewhere classified	18.3	22.2	I83 Varicose veins of lower extremities	
			D10-D36:Benign neoplasms	16.2	19.7	D25 Leiomyoma of uterus	
			M15-M19:Arthrosis	15.7	19.1	M17 Gonarthrosis [arthrosis of knee]	
<b>WC2</b> 121,564	55.8	23.0	E70-E90:Metabolic disorders	35.4	63.4	E78 Disorders of lipoprotein metabolism and other lipidaemias	0.93 (0.86-1.00)
			I10-I15:Hypertensive diseases	25.6	45.8	I10 Essential (primary) hypertension	
			E65-E68:Obesity and other hyperalimentation	19.0	34.0	E66 Obesity	
			E10-E14:Diabetes mellitus	7.7	13.7	E11 Non-insulin-	

						dependent diabetes mellitus	
<b>WC3</b> 103,147	47.4	10.8	F10-F19:Mental and behavioural disorders due to psychoactive substance use	18.6	39.4	F17 Mental and behavioural disorders due to use of tobacco	0.78 (0.73-0.84)
			E00-E07:Disorders of thyroid gland	14.9	31.4	E03 Other hypothyroidism	
			F30-F39:Mood [affective] disorders	14.6	30.8	F32 Depressive episode	
			M80-M85:Disorders of bone density and structure	11.3	23.9	M81 Osteoporosis without pathological fracture	
<b>WC4</b> 70,294	32.3	6.4	J00-J06:Acute upper respiratory infections	12.6	39.1	J00 Acute nasopharyngitis [common cold]	0.71 (0.66-0.77)
			K00-K14:Diseases of oral cavity, salivary glands and jaws	12.1	37.3	K02 Dental caries	
			L20-L30:Dermatitis and eczema	9.3	28.8	L29 Pruritus	
			B35-B49:Mycoses	5.7	17.8	B35 Dermatophytosis	
<b>WC5</b> 63,792	29.3	6.0	K20-K31:Diseases of oesophagus, stomach and duodenum	11.4	38.9	K30 Dyspepsia	0.71 (0.66-0.76)
			G40-G47:Episodic and paroxysmal disorders	10.5	36.0	G43 Migraine	
			K55-K63:Other diseases of intestines	8.6	29.2	K59 Other functional intestinal disorders	
			K40-K46:Hernia	5.7	19.4	K44 Diaphragmatic hernia	
<b>WC6</b> 34,707	15.9	1.6	J30-J39:Other diseases of upper respiratory tract	9.4	59.0	J30 Vasomotor and allergic rhinitis	1.00
			J40-J47:Chronic lower respiratory diseases	8.2	51.2	J45 Asthma	
<b>WC7</b> 32,674	15.0	0.8	D50-D53:Nutritional anaemias	8.3	55.2	D50 Iron deficiency anaemia	1.00
			N60-N64:Disorders of breast	7.5	50.1	N60 Benign mammary	

						dysplasia	
<b>WC8</b> 27,150	12.5	0.8	G50-G59:Nerve, nerve root and plexus disorders	8.5	68.6	G56 Mononeuropathies of upper limb	0.91 (0.88-0.94)
			M65-M68:Disorders of synovium and tendon	4.7	37.5	M65 Synovitis and tenosynovitis	
<b>WC9</b> 19,199	8.8	0.4	N30-N39:Other diseases of urinary system	5.9	66.7	N39 Other disorders of urinary system	0.69 (0.62-0.75)
			N20-N23:Urolithiasis	3.4	38.3	N20 Calculus of kidney and ureter	
<b>WC10</b> 18,439	8.5	0.4	H90-H95:Other disorders of ear	6.3	75.0	H91 Other hearing loss	0.75 (0.70-0.80)
			H65-H75:Diseases of middle ear and mastoid	2.5	30.1	H65 Nonsuppurative otitis media	
<b>WC11</b> 16,535	7.6	0.6	M45-M49:Spondylopathies	4.3	57.1	M47 Spondylosis	1.00
			M40-M43:Deforming dorsopathies	3.8	50.4	M41 Scoliosis	
<b>WC12</b> 14, 335	6.6	0.4	K80-K87:Disorders of gallbladder, biliary tract and pancreas	4.0	60.9	K80 Cholelithiasis	0.83*
			K70-K77:Diseases of liver	2.9	44.7	K76 Other diseases of liver	
<b>WC13</b> 12,320	5.7	0.0	F50-F59:Behavioural syndromes associated with physiological disturbances and physical factors	5.7	100.0	F51 Nonorganic sleep disorders	
<b>WC14</b> 10,357	4.8	0.0	L60-L75:Disorders of skin appendages	4.8	100.0	L72 Follicular cysts of skin and subcutaneous tissue	
<b>WC15</b> 9,555	4.4	0.0	H53-H54:Visual disturbances and blindness	4.4	100.0	H54 Blindness and low vision	
<b>WC16</b> 9,521	4.4	0.0	I30-I52:Other forms of heart disease	4.4	100.0	I34 Nonrheumatic mitral valve disorders	
<b>WC17</b> 9,442	4.3	0.0	B00-B09:Viral infections characterized by skin and mucous membrane lesions	4.3	100.0	B07 Viral warts	
<b>WC18</b> 8,541	3.9	0.0	T08-T14:Injuries to unspecified part of trunk, limb or body region	3.9	100.0	T14 Injury of unspecified body region	

<b>WC19</b> 8,268	3.8	0.0	H10-H13:Disorders of conjunctiva	3.8	100.0	H10 Conjunctivitis	
<b>WC20</b> 7,866	3.6	0.0	H60-H62:Diseases of external ear	3.6	100.0	H61 Other disorders of external ear	
<b>WC21</b> 7,714	3.5	0.0	H49-H52:Disorders of ocular muscles, binocular movement, accommodation and refraction	3.5	100.0	H52 Disorders of refraction and accommodation	
<b>WC22</b> 7,512	3.4	0.0	L50-L54:Urticaria and erythema	3.4	100.0	L50 Urticaria	
<b>WC23</b> 7,298	3.4	0.0	J20-J22:Other acute lower respiratory infections	3.4	100.0	J20 Acute bronchitis	
<b>WC24</b> 7,251	3.3	0.0	L80-L99:Other disorders of the skin and subcutaneous tissue	3.3	100.0	L82 Seborrhoeic keratosis	
<b>WC25</b> 6,178	2.8	0.0	H00-H06:Disorders of eyelid, lacrimal system and orbit	2.8	100.0	H04 Disorders of lachrymal system	
<b>WC26</b> 5,993	2.8	0.0	H40-H42:Glaucoma	2.8	100.0	H40 Glaucoma	
<b>WC27</b> 5,986	2.7	0.0	A00-A09:Intestinal infectious diseases	2.7	100.0	A09 Diarrhoea and gastro-enteritis of presumed infectious origin	
<b>WC28</b> 5,890	2.7	0.0	M05-M14:Inflammatory polyarthropathies	2.7	100.0	M13 Other arthritis	
<b>WC29</b> 5,548	2.5	0.0	S80-S89:Injuries to the knee and lower leg	2.5	100.0	S83 Dislocation, sprain and strain of joints and ligaments of knee	
<b>WC30</b> 5,416	2.5	0.0	C50-C50:Malignant neoplasm of breast	2.5	100.0	C50 Malignant neoplasm of breast	
<b>WC31</b> 5,372	2.5	0.0	L40-L45:Papulosquamous disorders	2.5	100.0	L40 Psoriasis	
<b>WC32</b> 5,336	2.4	0.0	H80-H83:Diseases of inner ear	2.4	100.0	H81 Disorders of vestibular function	
<b>WC33</b>	2.0	0.0	S90-S99:Injuries to the ankle and	2.0	100.0	S93 Dislocation, sprain	

4,374			foot			and strain of joints and ligaments at ankle and foot level	
WC34 3,882	1.8	0.0	B15-B19:Viral hepatitis	1.8	100.0	B18 Chronic viral hepatitis	
WC35 3,758	1.7	0.0	H25-H28:Disorders of lens	1.7	100.0	H25 Senile cataract	
WC36 3,744	1.7	0.0	K50-K52:Noninfective enteritis and colitis	1.7	100.0	K52 Other non-infective gastro-enteritis and colitis	
WC37 3,689	1.7	0.0	N70-N77:Inflammatory diseases of female pelvic organs	1.7	100.0	N76 Other inflammation of vagina and vulva	
WC38 3,646	1.7	0.0	J09-J18:Influenza and pneumonia	1.7	100.0	J11 Influenza, virus not identified	
WC39 3,399	1.6	0.0	L00-L08:Infections of the skin and subcutaneous tissue	1.6	100.0	L03 Cellulitis	
WC40 3,284	1.5	0.0	Q38-Q45:Other congenital malformations of the digestive system	1.5	100.0	Q40 Other congenital malformations of upper alimentary tract	
WC41 3,180	1.5	0.0	D60-D64:Aplastic and other anaemias	1.5	100.0	D64 Other anaemias	
WC42 3,055	1.4	0.0	W50-W64:Exposure to animate mechanical forces	1.4	100.0	W57 Bitten or stung by non-venomous insect and other non-venomous arthropods	
WC43 2,926	1.3	0.0	Y40-Y59:Drugs, medicaments and biological substances causing adverse effects in therapeutic use	1.3	100.0	Y52 Agents primarily affecting the cardiovascular system	
WC44 2,884	1.3	0.0	B25-B34:Other viral diseases	1.3	100.0	B34 Viral infection of unspecified site	
WC45 2,788	1.3	0.0	E20-E35:Disorders of other endocrine glands	1.3	100.0	E28 Ovarian dysfunction	
WC46 2,765	1.3	0.0	S60-S69:Injuries to the wrist and hand	1.3	100.0	S61 Open wound of wrist and hand	

<b>WC47</b> 2,645	1.2	0.0	H55-H59:Other disorders of eye and adnexa	1.2	100.0	H57 Other disorders of eye and adnexa	
<b>WC48</b> 2,612	1.2	0.0	M60-M63:Disorders of muscles	1.2	100.0	M62 Other disorders of muscle	
<b>WC49</b> 2,600	1.2	0.0	H30-H36:Disorders of choroid and retina	1.2	100.0	H35 Other retinal disorders	
<b>WC50</b> 2,584	1.2	0.0	D70-D77:Other diseases of blood and blood-forming organs	1.2	100.0	D72 Other disorders of white blood cells	
<b>WC51</b> 2,508	1.2	0.0	T51-T65:Toxic effects of substances chiefly nonmedicinal as to source	1.2	100.0	T65 Toxic effect of other and unspecified substances	
<b>WC52</b> 2,309	1.1	0.0	I70-I79:Diseases of arteries, arterioles and capillaries	1.1	100.0	I73 Other peripheral vascular diseases	
<b>WC53</b> 2,241	1.03	0.0	I20-I25:Ischaemic heart diseases	1.0	100.0	I25 Chronic ischaemic heart disease	

\* Standard error to large

\*\*Approximately unbiased (AU) probability-value

^ Abbreviation of sex, method and number (WC1: Women Cluster 1)