

## Supplementary Data

Prevalences of most common comorbid conditions in patients with COPD (occurring in  $\geq 2\%$  of patients in large European primary care database)

Cluster	Condition	Italy <sup>1</sup>	Germany <sup>2</sup>	UK <sup>3</sup>	Spain <sup>4</sup>	Sweden <sup>5</sup>	Netherlands <sup>6</sup>
<b>Number of patients</b>		<b>341,329</b>	<b>146,141</b>	<b>51,928</b>	<b>27,617</b>	<b>17,479</b>	<b>14,603</b>
Cardiovascular	Hypertension		72.9	35.3	55.6	56.3	35.2
	Hypertensive heart disease					2.61	
	Heart failure	7.9	20.0	6.4	11.4	30.6	7.9
	Coronary artery disease	13.6		20.8	9.7		19.2
	Chronic ischemic heart disease					19.7	
	Myocardial infarction		3.0			13.4	
	Angina pectoris					18.9	
	Atherosclerosis				2.2		
	Other forms of heart disease	23.1					
	Atrial fibrillation			5.9			7.5
	Cardiac arrhythmias	15.9			14.4		
	Heart valve disease				4.9		3.9
	Peripheral vascular disease			6.7			14.3
	Pulmonary embolism					4.2	
	Diseases of the pulmonary circulation	2.1					
	Phlebitis and thrombophlebitis					6.5	
	Venous insufficiency						2.4
Varicose veins					15.1		
Cerebrovascular	Stroke & transient ischaemic attack			8.3		13.2	9.7
	Transient ischaemia		2.54				
	Brain infarct		2.73				
	Stroke, other		2.33				
	Other cerebrovascular syndrome				9.9		
Respiratory	Astma			21.4			8.5

	Bronchiectasis			1.9			2.8
	Other respiratory diseases				9.5		
Digestive	Dyspepsia, gastroesophageal reflux	19.5		13.7	2.4		12.6
	Diverticular disease of intestine			8.2	4.2		3.9
	Constipation			8.4			
	Irritable bowel syndrome			6.4			2.8
Hepato	Cirrhosis				1.9		
Endocrine	Diabetes	18.7	28.4	12.2	22.1		17.3
	Dyslipidemia						11.5
	Thyroid disorder			10.0	7.9		5.6
	Adipositas/Obesity				15.9		4.4
	Other endocrine disorder				3.2		
Musculoskeletal	Osteoarthritis/ Degenerative joint disease				24.1		17.6
	Osteoarthritis/Hip					8.0	
	Osteoarthritis/Knee					10.3	
	Osteoarthritis/first metocarpal joint					2.53	
	Osteoarthritis/Other					9.9	
	Osteoporosis/osteopenia	14.8	19.9		10.5	12.9	6.3
	Inflammatory arthritis and related conditions			11.2			3.7
	Gout						2.0
Renal/Urogenital	Chronic kidney disease		13.1	7.4	3.4		9.5
	Prostate disease			3.3	22.1		1.2
	Incontinence				9.1		
	Recurrent urinary tract infection						2.3
Eye/Ear/Skin	Visual impairment			1.7			13.8
	Glaucoma			2.9			2.2
	Hearing loss			9.4			8.1
	Psoriasis						4.6
	Eczema						4.1
	Skin ulcer				3.9		
Hematological	Iron deficiency anemia				8		

	Other hematological disorder				3.9		
Neurological	Other neurological disorder				5.5		
	Neuritis				3.2		
	Painful condition			24.5			
Neoplastic	Pulmonary cancer	1.9	1.8			6.2	2.4
	Skin cancer						6.3
	A new cancer in last 5 years			7.2			
	Breast cancer						2.3
Psychiatric	Anxiety			11.2	3.6	14.3	4.3
	Depressive disorder		30.5	19.1	14.5	23.6	5.6
	Persistent mood disorder		2.6				
	Dementia			2.1			1.7
	Sleep disorders					8.2	
	Substance abuse				4.5		
	Alcohol misuse			7.6			3.9
	Neurotic disorders, personality disorders and other non-psychotic mental disorders	34.2					

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