

Supplemental materials for

Sidorkiewicz S, Malmartel A, Prevost L, et al. Patient-physician agreement in reporting and prioritizing existing chronic conditions. *Ann Fam Med*. 2019;17(5):396-402.

Supplementary Appendix

Supplementary Appendix, Figure 1. Procedure for developing the list of chronic conditions

Supplementary Appendix, Table 1. List of the 124 chronic conditions

Supplementary Appendix, Table 2. General practitioner (GP) characteristics (n=16)

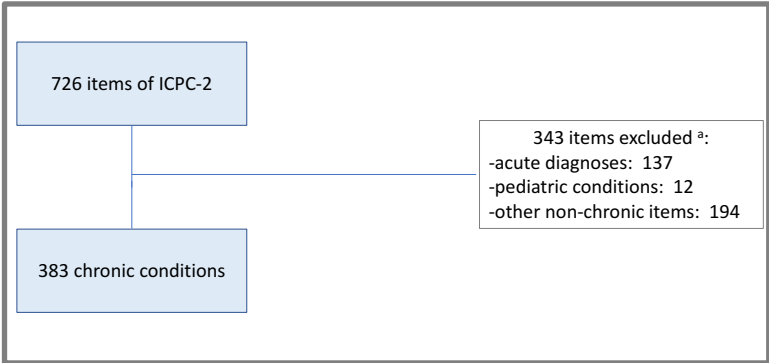
Supplementary Appendix, Table 3. Agreement between patient self-reports and GP reports of patients' chronic conditions for all chronic conditions (n=233 patient–GP pairs)

Supplementary Appendix, Table 4. Agreement between patients and GPs on health priorities (n=153 patient–GP pairs)

Supplementary Appendix, Figure 1. Procedure for developing a list of chronic conditions

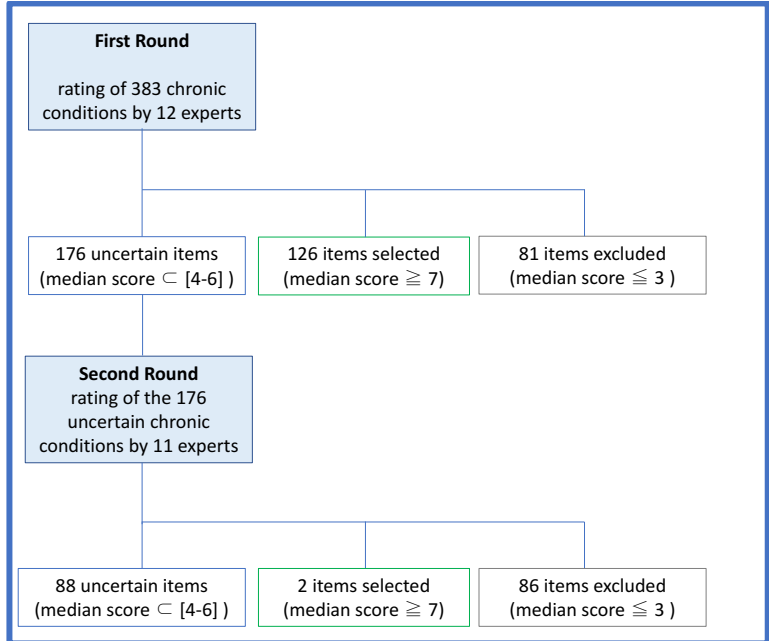
Preliminary step

Exclusion of inappropriate items (independently by two researchers)



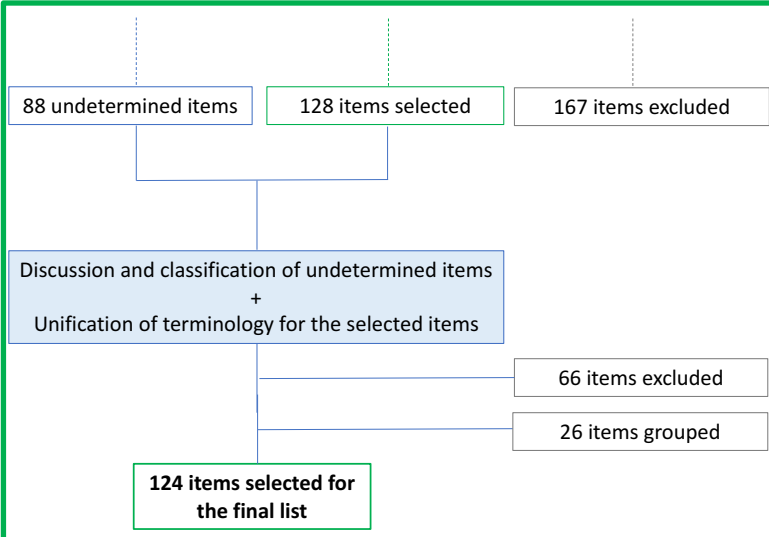
Delphi Process

1st round with 12 experts
2nd round with 11 experts



Panel Meeting

Meeting of the 10 experts



^a examples of items excluded: *acute otitis media* (acute diagnoses), *blocked lachrymal duct in infant* (pediatric condition), *physical function test* (other non-chronic item)

Supplementary Appendix, Table 1. List of the 124 chronic conditions

Cardiology (n=11)	
- high blood pressure	- coronary artery disease
- cardiac arrhythmia	- stroke/transient ischaemic attack
- pulmonary artery hypertension	- cardiovascular cancer
- peripheral artery disease	- valvular heart disease
- current pulmonary embolism	- other cardiovascular disease
- congenital cardiovascular disease	
Endocrinology (n=10)	
- type 1 diabetes mellitus	- hyperthyroidism
- type 2 diabetes mellitus	- hypothyroidism
- dyslipidaemia	- benign thyroid neoplasm
- obesity	- thyroid cancer
- recurrent gout	- other endocrine disease
Respiratory (n=6)	
- chronic obstructive pulmonary disease	- upper airways cancer
- asthma	- congenital respiratory disease (cystic fibrosis etc.)
- pulmonary cancer	- other respiratory disease
Abdominal (n=10)	
- hiatus hernia/oesophagitis/chronic gastritis	- hemochromatosis
- irritable bowel syndrome	- digestive tract cancers
- diverticular disease	- faecal incontinence
- viral hepatitis	- liver disease with cirrhosis
- inflammatory bowel disease	- other digestive disease
Musculoskeletal system (n=8)	
- chronic low back pain (with or without radiating pain)	- inflammatory arthritis
- arthritis	- osteoporosis
- scoliosis/acquired deformity of spine	- musculoskeletal cancer
- shoulder syndrome	- other musculoskeletal disease
Dermatology (n=8)	
- eczema	- herpes chronic infection
- acne	- skin cancer
- psoriasis	- seborrheic dermatitis
- chronic ulcer skin	- other dermatologic disease
Ophthalmology and otorhinolaryngology (n=11)	
- retinopathy	- presbycusis/deafness
- visual impairment/blindness	- vertiginous syndrome
- glaucoma	- chronic otitis media
- cataract	- cancer of ears or eyes
- macular degeneration	- (allergic) chronic rhinitis/sinusitis
- other ear-nose-throat or ophthalmologic disease	

Neurology (n=13)

- epilepsy
- peripheral neuropathy
- tunnel syndrome
- multiple sclerosis
- Parkinson disease
- migraine/cluster headache/facial neuralgia
- limb paralysis (except stroke)
- facial paralysis (except stroke)
- restless legs
- speech disorder
- post-poliomyelitis sequelae
- cancer of the nervous system
- other neurologic disease

Immunology and haematology (n=8)

- leukemia/blood cancer
- lymphoma
- inherited haemolytic anaemia
- Biermer anaemia
- haemophilia/thrombophilia
- HIV infection/AIDS
- autoimmune connective tissue disorder/vasculitis
- other hematologic/immunologic disease

Psychiatry (n=16)

- alcohol use disorder
- medication/drug abuse
- post-traumatic stress disorder
- schizophrenia
- bipolar disorder
- other psychosis
- sleep disorder
- memory disturbance/dementia
- tobacco use
- depressive disorder
- chronic anxiety disorder
- personality disorder
- somatization disorder
- mental retardation
- anorexia nervosa/bulimia
- other psychiatric disease

Urology (n=11)

- benign prostatic hypertrophy
- incontinence urine
- prostate cancer
- chronic urinary calculus
- chronic sexual function disorder
- chronic renal failure
- urinary tract cancer
- other genital cancer
- male infertility
- congenital anomaly of urinary tract
- other urologic disease

Gynaecology(n=8)

- menopausal symptoms with treatment
- uterine fibroids
- female infertility
- ureterovaginal prolapsed
- cervical cancer
- breast cancer
- other gynaecologic cancer
- other gynaecologic disease

Other (n=4)

- tuberculosis
- chronic pain syndrome
- other cancer
- other disease

Supplementary Appendix, Table 2. General practitioner (GP) characteristics (n=16)

GPs included in the study (n= 16)	
Characteristics	Value
Age – median (IQR), years	57.5 [33.8-64]
Female sex – n (%)	5 (31.3)
Years of practice – median (IQR), years	28 [4.8-30.3]
Urban setting – n (%)	16 (100)
Type of practice – n (%)	
1 GP working in practice	3 (18.8)
≥2 GPs working in practice	13 (81.2)
Teaching GP – n (%)	15 (93.8)
Duration of consultations, min – n (%)	
15-20	7 (43.8)
21-25	5 (31.2)
26-30	3 (18.8)
>30	1 (6.2)
Number of patients recruited – median (IQR)	17.0 [8.0-19.0]

Abbreviations: IQR: interquartile range

<i>French national cohort of GPs in 2017 (n=102250)</i>	
<i>Characteristics</i>	<i>Value</i>
<i>Age– mean, years</i>	<i>51.4</i>
<i>Female sex– n (%)</i>	<i>46434 (45.4)</i>

Supplementary Appendix, Table 3. Agreement between patient self-reports and GP reports of patients' chronic conditions for all chronic conditions (n=233 patient-GP pairs)

Chronic condition ^a	Patient self-report	GP report	Patient/GP agreement table ^b		Agreement statistic
	n (%)	n (%)	[P-/GP-]	[P-/GP+]	Kappa (95% CI)
			[P+/GP-]	[P+/GP+]	

Cardiovascular chronic conditions					
High blood pressure	80 (34.3)	90 (38.6)	134	19	0.74 (0.64-0.85)
			9	71	
Cardiac arrhythmia	8 (3.4)	13 (5.6)	218	7	^c
			2	6	
Stroke / transient cerebral ischaemia	8 (3.4)	7 (3.0)	225	0	^c
			1	7	
Ischaemic heart disease / angina / myocardial infarction	7 (3.0)	16 (6.9)	217	9	^c
			0	7	
Congenital anomaly cardiovascular	4 (1.7)	1 (0.4)	229	0	^c
			3	1	
Heart valve disease	1 (0.4)	10 (4.3)	223	9	^c
			0	1	
Atherosclerosis / peripheral arterial disease	2 (0.9)	1 (0.4)	231	0	^c
			1	1	
Pulmonary embolism	1 (0.4)	2 (0.9)	231	1	^c
			0	1	
Pulmonary hypertension	0 (0.0)	1 (0.4)	232	1	^c
			0	0	

Endocrine / metabolic and Nutritional chronic conditions					
Hypothyroidism	18 (7.7)	19 (8.2)	212	3	0.85 (0.73-0.96)
			2	16	
Obesity	15 (6.4)	18 (7.7)	208	10	0.45 (0.18-0.63)
			7	8	
Diabetes mellitus (type 2)	14 (6.0)	22 (9.4)	210	9	0.70 (0.51-0.84)
			1	13	
Diabetes mellitus (type 1)	10 (4.3)	4 (1.7)	221	2	0.27 (-0.02-0.56)
			8	2	
Hyperthyroidism	6 (2.6)	4 (1.7)	227	0	^c
			2	4	
Dyslipidaemia	5 (2.1)	39 (16.7)	192	36	^c
			2	3	
Benign neoplasm thyroid	4 (1.7)	5 (2.1)	227	2	^c
			1	3	
Gout	0 (0.0)	1 (0.4)	232	1	^c
			0	0	
Thyroid cancer	1 (0.4)	0 (0.0)	232	0	^c
			1	0	

Respiratory chronic conditions					
Asthma	24 (10.3)	18 (7.8)	203	6	0.53 (0.35-0.71)
			12	12	
Chronic obstructive pulmonary disease	8 (3.4)	14 (6.0)	216	9	^c
			3	5	
Lung cancer	1 (0.4)	1 (0.4)	232	0	^c
			0	1	

Digestive chronic conditions					
Hiatus hernia / gastroesophageal reflux disease / chronic gastritis	31 (13.3)	32 (13.7)	186	16	0.43 (0.29-0.53)
			15	16	
Irritable bowel syndrome	18 (7.7)	10 (4.3)	212	3	0.47 (0.21-0.68)
			11	7	
Viral hepatitis	6 (2.6)	8 (3.4)	224	3	c
			1	5	
Digestive tract cancer	3 (1.3)	4 (1.7)	230	0	c
			1	2	
Inflammatory bowel disease	2 (0.9)	2 (0.9)	231	0	c
			0	2	
Diverticular disease	2 (0.9)	3 (1.3)	229	2	c
			1	1	
Liver disease with cirrhosis	0 (0.0)	1 (0.4)	232	1	c
			0	0	

Musculoskeletal chronic conditions					
Osteoarthritis	59 (25.3)	42 (18.0)	157	17	0.36 (0.25-0.46)
			34	25	
Chronic low back pain	32 (13.7)	29 (12.4)	183	18	0.26 (0.03-0.42)
			21	11	
Scoliosis and other acquired deformity	16 (6.9)	6 (2.6)	215	2	0.32 (0.12-0.53)
			12	4	
Shoulder syndrome	15 (6.4)	7 (3.0)	214	4	0.24 (0.00-0.43)
			12	3	
Osteoporosis	12 (5.2)	13 (5.6)	212	9	0.28 (0.07-0.49)
			8	4	
Inflammatory arthritis	9 (3.9)	2 (0.9)	224	0	c
			7	2	

Skin chronic conditions					
Eczema	21 (9.0)	7 (3.0)	209	3	0.25 (0.05-0.40)
			17	4	
Herpes chronic infection	17 (7.3)	3 (1.3)	216	0	0.28 (0.00-0.57)
			14	3	
Psoriasis	9 (3.9)	6 (2.6)	221	3	c
			6	3	
Seborrheic dermatitis	8 (3.4)	2 (0.9)	225	0	c
			6	2	
Acne	5 (2.1)	1 (0.4)	228	0	c
			4	1	
Skin cancer	2 (0.9)	5 (2.1)	227	4	c
			1	1	
Chronic ulcer skin	1 (0.4)	0 (0.0)	232	0	c
			1	0	

Ophthalmologic and ear chronic conditions					
Hearing impairment / presbycusis	27 (11.6)	7 (3.0)	205	1	0.32 (0.03-0.56)
			21	6	
Chronic rhinitis and/or sinusitis	25 (10.7)	17 (7.3)	200	8	0.37 (0.23-0.51)
			16	9	
Cataract	16 (6.9)	3 (1.3)	214	3	c
			16	0	
Vertiginous syndrome	7 (3.0)	2 (0.9)	225	1	c
			6	1	
Macular degeneration	6 (2.6)	0 (0.0)	227	0	c
			6	0	
	5 (2.1)	4 (1.7)	227	1	c

Glaucoma			2	3	
Blindness / visual impairment	2 (0.9)	1 (0.4)	231	0	c
			1	1	
Chronic otitis media	2 (0.9)	1 (0.4)	231	0	c
			1	1	
Retinopathy	0 (0.0)	1 (0.4)	232	1	c
			0	0	

Neurological chronic conditions					
Migraine / cluster headache	17 (7.3)	16 (6.9)	208	8	0.45 (0.19-0.62)
			9	8	
Carpal tunnel syndrome / other canal syndrome	7 (3.0)	2 (0.9)	224	2	c
			6	1	
Epilepsy	5 (2.1)	4 (1.7)	227	1	c
			2	3	
Restless legs	4 (1.7)	0 (0.0)	229	0	c
			4	0	
Peripheral neuritis / neuropathy	2 (0.9)	7 (3.0)	226	5	c
			0	2	
Multiple sclerosis	1 (0.4)	1 (0.4)	232	0	c
			0	1	
Post-poliomyelitis sequelae	1 (0.4)	1 (0.4)	232	0	c
			0	1	
Limb paralysis (except stroke)	0 (0.0)	1 (0.4)	232	1	c
			0	0	
Facial paralysis (except stroke)	1 (0.4)	1 (0.4)	232	0	c
			0	1	
(Non-facial) paralysis	0 (0.0)	1 (0.4)	232	1	c
			0	0	

Blood / Immune mechanism chronic conditions					
HIV infection / AIDS	4 (1.7)	3 (1.3)	229	0	c
			1	3	
Vasculitis, auto-immune connective tissue disorder	4 (1.7)	4 (1.7)	228	1	c
			1	3	
Leukaemia / other blood cancer	3 (1.3)	3 (1.3)	230	0	c
			0	3	
Coagulation defect	2 (0.9)	0 (0.0)	231	0	c
			2	0	

Psychological / psychiatric chronic conditions					
Chronic anxiety disorder	33 (14.2)	32 (13.7)	176	24	0.12 (0.00-0.30)
			25	8	
Chronic sleeping disorder	33 (14.2)	7 (3.0)	197	3	0.16 (0.00-0.32)
			29	4	
Tobacco use	22 (9.4)	25 (10.7)	201	10	0.60 (0.46-0.74)
			7	15	
Depressive disorder	19 (8.2)	39 (16.7)	188	26	0.38 (0.20-0.53)
			6	13	
Chronic alcohol abuse	9 (3.9)	15 (6.4)	215	9	c
			3	6	
Memory disturbance / dementia	9 (3.9)	1 (0.4)	224	0	c
			8	1	
Drug / medication abuse	8 (3.4)	8 (3.4)	223	2	c
			2	6	
Post-traumatic stress disorder	7 (3.0)	3 (1.3)	225	1	c
			5	2	
Alimentary disorder	7 (3.0)	3 (1.3)	225	1	c
			5	2	

Bipolar syndrome	3 (1.3)	4 (1.7)	228	2	c
			1	2	
Personality disorder	2 (0.9)	4 (1.7)	229	2	c
			0	2	
Schizophrenia	1 (0.4)	1 (0.4)	232	0	
			0	1	
Somatization disorder	1 (0.4)	2 (0.9)	230	2	
			1	0	
Other psychosis	0 (0.0)	2 (0.9)	231	2	
			0	0	

Urological chronic conditions					
Benign prostatic hypertrophy	14 (6.0)	15 (6.4)	211	8	0.45 (0.12-0.60)
			7	7	
Urinary incontinence	9 (3.9)	1 (0.4)	223	1	c
			9	0	
Sexual dysfunction	8 (3.4)	1 (0.4)	225	0	c
			7	1	
Prostatic cancer	6 (2.6)	4 (1.7)	225	2	c
			0	6	
Chronic kidney failure	3 (1.3)	9 (3.9)	223	7	c
			1	2	
Urinary tract cancer	1 (0.4)	2 (0.9)	230	2	c
			1	0	
Male infertility	1 (0.4)	0 (0.0)	232	0	c
			1	0	
Chronic urinary calculus	0 (0.0)	1 (0.4)	232	1	c
			0	0	

Female genital chronic conditions					
Breast cancer	11 (4.7)	10 (4.3)	220	2	0.75 (0.41-0.95)
			3	8	
Uterine fibroids	8 (3.4)	1 (0.4)	224	1	c
			8	0	
Cervical cancer	5 (2.1)	2 (0.9)	227	1	c
			4	1	
Menopause (with therapy for climacteric symptoms)	4 (1.7)	5 (2.1)	226	3	c
			2	2	
Female infertility	4 (1.7)	1 (0.4)	229	0	c
			3	1	
Other gynaecological cancer	1 (0.4)	1 (0.4)	232	0	c
			0	1	
Prolapses	1 (0.4)	1 (0.4)	231	1	c
			1	0	

Other chronic conditions					
Tuberculosis	4 (1.7)	0 (0.0)	229	0	
			4	0	
Chronic pain syndrome	7 (3.0)	8 (3.4)	221	5	c
			4	3	
Other chronic condition	20 (8.6)	41 (17.6)	183	30	c
			9	11	

The conditions highlighted in blue are reported in the article

a: each chronic condition is one of the 124 selected conditions on the previously developed list (Appendix 2)

The following conditions were not reported by the patients or their GPs: cardiovascular/aero digestive tract/musculoskeletal/ear or eye/brain/urological/other cancer, rectal incontinence, mental retardation, sickle cell anaemia, vitamin B12 anaemia, hemochromatosis, Parkinson disease, speech disorder, congenital respiratory/urological anomaly

b: **GP+/P+**: chronic condition reported by both the patient and GP; **GP+/P-**: chronic condition reported only by the GP; **GP-/P+**: chronic condition reported only by the patient; **GP-/P-**: chronic condition not reported by the patient or GP

c: We did not calculate kappa coefficient for the diseases with fewer than 10 patient self-reports.

Supplementary Appendix 4. Agreement between patients and GPs on health priorities
(n=153 patient–GP pairs)

Chronic condition	Reported only in the patient list – n1	Reported in both the patient and GP list – n2	Reported only in the GP list – n3	Reported in at least one list – (n1+n2+n3)
1. High blood pressure	4	37	18	59
2. Osteoarthritis	18	7	9	34
3. Chronic anxiety disorder	11	9	12	32
4. Depressive disorder	4	9	17	30
5. Chronic low-back pain	9	9	5	23
6. Diabetes mellitus	3	14	4	21
7. Overweight/obesity	9	5	4	18
8. Tobacco use	4	3	7	14
9. Chronic obstructive pulmonary disease	2	3	9	14
10. Hiatus hernia/esophagitis/chronic gastritis	5	5	3	13
11. Thyroid disorder	0	10	3	13
12. (Allergic) chronic rhinitis/sinusitis	3	3	4	10
13. Cardiovascular disease	4	6	1	11
14. Lipid disorder	3	2	5	10
15. Migraine	4	3	3	10
16. Benign prostatic hypertrophy	5	2	2	9
17. Irritable bowel syndrome	4	4	1	9
18. Sleep disorder	7	2	0	9
19. Asthma	3	3	3	9
20. Presbycusis/deafness	5	2	2	9
21. Chronic alcohol abuse	0	3	5	8
22. Peripheral neuritis/neuropathy	0	4	3	7
23. Breast cancer	0	6	0	6
24. Eczema	2	3	1	6
25. Prostate cancer	1	3	2	6
26. Coronary artery disease	0	2	3	5
27. Stroke/cerebrovascular accident	1	3	1	5
28. Benign neoplasm	2	2	0	4
29. Cardiac arrhythmia	0	4	1	5
30. Chronic renal failure	1	1	2	4
31. Liver disease	1	2	1	4
32. Medication/drug abuse	1	0	3	4
33. Memory disturbance/dementia	3	0	1	4
34. Psychological disorders (other psychiatric disease)	2	1	1	4
35. Recurrent herpes infection	4	0	0	4
36. Glaucoma	2	0	1	3
37. Heart valve disease	0	2	1	3
38. HIV infection / AIDS	0	2	1	3
39. Inflammatory arthritis	1	2	0	3
40. Osteoporosis	2	0	2	4
41. Scoliosis/acquired deformity of spine	1	0	2	3
42. Tendinitis (shoulder syndrome)	2	1	0	3
43. Weakness / general tiredness	3	0	0	3
44. Menopausal symptom	1	1	1	3
45. Acne	1	1	0	2
46. Endometriosis (other gynaecologic disease)	0	1	1	2
47. Psoriasis	1	1	0	2
48. Senility / feeling old	1	0	1	2
49. Sleep apnea	1	1	0	2
50. Skin cancer	0	0	2	2
51. Incontinence urine	2	0	0	2
52. Somatization disorder	0	0	2	2
53. Personality disorder	0	1	1	2
54. Urinary tract cancer	0	0	1	1
55. Pulmonary cancer	0	1	0	1

56. Anorexia nervosa/bulimia	0	0	1	1
57. Cough (other respiratory disease)	0	1	0	1
58. Retinopathy	0	0	1	1
59. Cervical cancer	0	1	0	1
60. Digestive tract cancer	0	1	0	1
61. Inflammatory bowel disease	0	1	0	1
62. Leukemia/blood cancer	0	1	0	1
63. Dysuria (other urologic disease)	0	0	1	1
64. Epilepsy	1	0	0	1
65. Foot/Hip symptom (other musculoskeletal disease)	3	0	2	5
66. Infertility	1	0	0	1
67. Cataract	1	0	0	1
68. Other dermatologic disease	1	0	0	1
69. Dermatitis seborrheic	1	0	0	1
70. Sexual dysfunction	1	0	1	2
71. Urinary calculus	0	0	1	1
72. Current pulmonary embolism	0	0	1	1
73. Gout	0	0	1	1
74. Chronic otitis	0	0	1	1
75. Bipolar disorder	0	0	1	1
76. Multiple sclerosis	0	1	0	1
77. Other digestive disease	0	0	1	1
78. Other neurologic disease	1	0	0	1
79. Autoimmune disorder/vasculitis	0	3	0	3
80. Chronic pain syndrome	0	1	0	1
81. Other	4	0	2	6
Total – n (%)	157 (30.2)	196 (37.8)	166 (32.0)	519 (100)

The conditions in bold are reported in the article (Figure 1).