

**Supplementary Table 1.** Breakdown of 50 chief complaints, 29 mid-level categories, and 12 body system categories

Level 1 (chief complaint)	Level 2 (mid-level category)	Level 3 (body system category)
Cancer	Cancer	Nonspecific cancer
Atrial fibrillation	Arrhythmia	Cardiac
Heartbeat	Arrhythmia	Cardiac
Chest Pain	Chest pain	Cardiac
Lower extremity swelling	Edema	Cardiac
Other swelling	Edema	Cardiac
Upper extremity swelling	Edema	Cardiac
Water retention	Edema	Cardiac
Heart problems	Heart problems	Cardiac
ADHF	ADHF	Cardiac
Hypertension	Hypertension	Cardiac
Ischemia	MI/Ischemia	Cardiac
MI	MI/Ischemia	Cardiac
Diabetes	Diabetes	Endocrine
Hyperglycemia	Diabetes	Endocrine
Ascites	Ascites	GI
Nausea	Nausea/vomiting	GI
Vomit	Nausea/vomiting	GI
Appetite	Other GI	GI
Hepatomegaly	Other GI	GI
Kidney	Kidney disease	Kidney
Urine	Urinary complaint	Kidney
Balance	Balance	Musculoskeletal
Fall	Balance	Musculoskeletal
Gait	Balance	Musculoskeletal
Weakness	Weakness	Musculoskeletal
Altered mental	Confusion	Neuro
Confusion	Confusion	Neuro
Tired	Fatigue	Neuro
Headache	Headache	Neuro
Numb	Numb	Neuro
Chill	Diaphoresis	Nonspecific
Flush	Diaphoresis	Nonspecific
Sweat	Diaphoresis	Nonspecific
Insomnia	Insomnia	Nonspecific
Anxiety	Common mood disorders	Psych

Depression	Common mood disorders	Psych
Stress	Common mood disorders	Psych
Asthma	Asthma	Pulmonary
Congestion	Dyspnea	Pulmonary
Shortness of breath	Dyspnea	Pulmonary
Breath	Respiratory/other	Pulmonary
Cough	Respiratory/other	Pulmonary
Dizzy	Light-headed/dizzy	Syncope
Blackout	Syncope	Syncope
Syncope	Syncope	Syncope
Weight change	Weight change	Weight change
Weight decrease	Weight change	Weight change
Weight increase	Weight change	Weight change

ADHF, acute decompensated heart failure; MI, myocardial ischemia; GI, gastrointestinal.