

Supplemental Table S1. Most common symptoms in female compared to male patients

Ranking	Female		Male	
	Symptom	%	Symptom	%
1	Lightheadedness	99.0	Lightheadedness	95.3
2	Tachycardia	97.2	Tachycardia	93.4
3	Headache	94.9	Difficulty Concentrating	92.1
4	Difficulty Concentrating	94.4	Headache	87.8
5	Pre-Syncope	94.2	Pre-Syncope	84.9
6	Nausea	90.4	Memory Problems	82.9
7	Palpitations	88.7	Palpitations	79.4
8	Shortness of Breath	88.7	Shortness of Breath	78.5
9	Memory Problems	88.3	Trouble Falling Asleep	77.1
10	Muscle Pain	84.7	Nausea	76.0

Supplemental Table S2. Symptoms

Symptom	Overall		Female		Male		p-value
	N	%	N	%	N	%	
Lightheadedness	7,382	98.7	6,934	99.0	448	95.3	<0.001
Tachycardia	7,239	97.0	6,800	97.2	439	93.4	<0.001
Headache	7,050	94.4	6,638	94.9	412	87.8	<0.001
Difficulty Concentrating	7,035	94.3	6,603	94.4	432	92.1	0.04
Pre-Syncope	6,989	93.6	6,591	94.2	398	84.9	<0.001
Nausea	6,688	89.5	6,331	90.4	357	76.0	<0.001
Shortness of Breath	6,574	88.1	6,206	88.7	368	78.5	<0.001
Palpitation	6,537	88.1	6,171	88.7	366	79.4	<0.001
Memory Problems	6,552	87.9	6,165	88.3	387	82.9	<0.001
Muscle Pains	6,273	84.1	5,923	84.7	350	74.9	<0.001
Coldness in the feet	6,231	83.7	5,901	84.6	330	70.2	<0.001
Stomach Pain	6,233	83.5	5,882	84.1	351	74.7	<0.001
Coldness in the hands	6,142	82.4	5,818	83.3	324	69.5	<0.001
Muscle Weakness	6,105	82.0	5,762	82.6	343	73.1	<0.001
Trouble falling asleep	6,029	80.9	5,668	81.1	361	77.1	0.033
Bloating	5,960	80.2	5,692	81.7	268	57.6	<0.001
Chest Pain	5,857	78.6	5,527	79.1	330	70.7	<0.001
Tremulousness	5,715	76.8	5,408	77.6	307	65.3	<0.001
Trouble staying asleep	5,685	76.4	5377	77.1	308	65.8	<0.001
Tingling in the hands	5,640	75.8	5,344	76.6	296	63.7	<0.001
Pain in back of head	5,585	75.1	5,291	75.9	294	63.2	<0.001
Blurred Vision	5,574	74.8	5,261	75.4	313	66.7	<0.001
Constipation	5,291	71.0	5,026	72.0	265	56.7	<0.001
Color change in feet or legs	5,267	70.9	5,008	71.9	259	55.3	<0.001
Low Blood Pressure	5,074	69.9	4,829	71	245	53.3	<0.001
Skin Flushing (redness)	5,164	69.5	4,915	70.6	249	53	<0.001
Diarrhea	5,160	69.3	4,849	69.5	311	66.3	0.147
Frequent Urination	5,033	67.7	4,752	68.2	281	60.2	<0.001
Tingling in the feet	5,026	67.6	4,747	68.1	279	59.7	<0.001
Acid Reflux/Heart Burn	4,945	66.4	4,664	66.8	281	60	0.002
Dry mouth	4,868	65.4	4,577	65.6	291	61.9	0.106
Numbness in hands	4,823	64.9	4,561	65.5	262	56.1	<0.001
Night Sweats	4540	61.1	4296	61.7	244	52.6	<0.001
Dry eyes	4,489	60.2	4,228	60.5	261	55.7	0.036
Numbness in feet	4,322	58.1	4,085	58.6	237	50.7	0.001
Difficulty Speaking	3,682	49.4	3,483	49.9	199	42.3	0.001
Excessive daytime sweating	3,590	48.4	3,378	48.6	212	45.4	0.176
Difficulty Swallowing	3,460	46.5	3,284	47.1	176	37.4	<0.001

Burning Sensation (on skin)	3,281	44.2	3,099	44.6	182	38.9	0.017
Dry sinuses	3,194	43.2	3,008	43.4	186	40.2	0.181
Ears turning bright red/warm	3,079	41.6	2,885	41.6	194	41.5	0.996
Tingling in the face	3,008	40.5	2,862	41.1	146	31.3	<0.001
High Blood Pressure	2,938	40.3	2,704	39.5	234	50.6	<i><0.001</i>
Burning in the feet	2,866	38.6	2,702	38.8	164	35.0	0.104
Vomiting	2,728	36.6	2,605	37.3	123	26.3	<0.001
Bradycardia	2,568	34.9	2,413	35.0	155	33.3	0.455
Syncope	2,581	34.6	2,460	35.2	121	25.8	<0.001
Double vision	2,472	33.2	2,347	33.7	125	26.6	0.002
Numbness on the face	2,364	31.9	2,256	32.5	108	23.1	<0.001
Hives elsewhere on body (other than ankles/feet)	2,344	31.6	2,250	32.3	94	20.1	<0.001
Burning in the hands	2,280	30.8	2,161	31.1	119	25.5	0.012
Choking on drink	2,132	28.6	2,037	29.2	95	20.3	<0.001
Choking on saliva	2,103	28.3	2,022	29.0	81	17.3	<0.001
Lack of sweating	2,083	28.1	1,968	28.3	115	24.7	0.096
Difficulty Urinating	1,917	25.8	1,810	26.0	107	22.9	0.140
Choking on food	1,867	25.1	1,781	25.5	86	18.4	0.001
Hives around ankles/feet	912	12.3	865	12.4	47	10.0	0.126

P Values: **Bold:** A higher proportion of female patients. *Italicized:* a higher proportion of male patients.

Supplemental Table S3. Comorbid Disorders

Comorbid Disorders	Overall		Female		Male		p-value
	N	%	N	%	N	%	
Has a co-morbidity	6,147	84.1	5,821	85	326	70.9	<0.001
Migraines	2,901	39.7	2,801	40.9	100	21.7	<0.001
Other comorbidity	2,620	35.9	2457	25.9	163	35.4	0.846
Vitamin D Deficiency	2,321	31.8	2,209	32.3	112	24.3	<0.001
Irritable Bowel Syndrome	2,185	29.9	2,107	30.8	78	17.0	<0.001
Ehlers-Danlos Syndrome	1,796	24.6	1,724	25.2	72	15.7	<0.001
Asthma	1,540	21.1	1,472	21.5	68	14.8	0.001
Chronic Fatigue Syndrome	1,453	19.9	1,387	20.3	66	14.3	0.002
Fibromyalgia	1,367	18.7	1,330	19.4	37	8	<0.001
Iron Deficiency Anemia	1,187	16.2	1,171	17.1	16	3.5	<0.001
Raynaud's Phenomena	1,159	15.9	1,133	16.5	26	5.7	<0.001
Vitamin B12 Deficiency	991	13.6	965	14.1	26	5.7	<0.001
Gastroparesis	966	13.2	942	13.8	24	5.2	<0.001
Inappropriate Sinus Tachycardia	840	11.6	824	12.0	26	5.7	<0.001
Neurocardiogenic or neurally mediated vasovagal syncope	831	11.4	804	11.7	27	5.9	<0.001
Mast Cell Activation Syndrome	777	10.6	755	11.0	22	4.8	<0.001
Endometriosis	702	9.6	702	10.3	-	-	-
Mitral Valve Prolapse	612	8.4	594	8.7	18	3.9	<0.001
Autonomic Neuropathy	570	7.8	542	7.9	28	6.1	0.157
Sleep Apnea	561	7.7	497	7.3	64	13.9	<i><0.001</i>
Peripheral Neuropathy	496	6.8	467	6.8	29	6.3	0.670
Small Fiber Neuropathy	483	6.6	455	6.6	28	6.1	0.641
Gallbladder Disease	474	6.5	463	6.8	11	2.4	<0.001
Hashimoto's Thyroiditis	421	5.8	420	6.1	1	0.2	<0.001

Hypokalemia	416	5.7	405	5.9	11	2.4	0.002
Other Connective Tissue Disorder	350	4.8	335	4.9	15	3.3	0.113
Celiac Disease	275	3.8	264	3.9	11	2.4	0.11
Epstein Barr Virus (active infection)	272	3.7	259	3.8	13	2.8	0.294
Lyme Disease	249	3.4	239	2.5	10	2.2	0.132
Reflex Sympathetic Dystrophy/Complex Regional Pain Syndrome	234	3.2	223	3.3	11	2.4	0.307
Chiari Malformation	223	3.1	218	3.2	5	1.1	0.011
Sjoren's Syndrome	221	3.0	215	3.1	6	1.3	0.026
Livedo Reticularis	216	3.0	210	3.1	6	1.3	0.031
Anorexia Nervosa/Bulemia	204	2.8	199	2.9	5	1.1	0.022
Rheumatoid Arthritis	169	2.3	164	2.4	5	1.1	0.071
Mononucleosis (active infection)	162	2.2	156	2.3	6	1.3	0.170
Cancer	156	2.1	148	2.2	8	1.7	0.544
Epilepsy	148	2.0	141	2.1	7	1.5	0.428
Sensory Neuropathy	135	1.8	130	1.9	5	1.1	0.211
Atrial Fibrillation	135	1.8	125	1.8	10	2.2	0.591
Lupus	127	1.7	124	1.8	3	0.7	0.066
Type II Diabetes	114	1.6	105	1.5	9	2.0	0.479
CoQ10 Deficiency	102	1.4	97	1.4	5	1.1	0.560
Heart Block	74	1.0	66	1.0	8	1.7	0.108
Pure Autonomic Failure	62	0.8	59	0.9	3	0.7	0.635
Grave's Disease	55	0.8	55	0.8	0	0.0	0.054
Heavy Metal Poisoning	54	0.7	52	0.8	2	0.4	0.431
Addison's Disease	53	0.7	51	0.7	2	0.4	0.448
Leiden Factor V	51	0.7	48	0.7	3	0.7	0.903
Type I Diabetes	46	0.6	44	0.6	2	0.4	0.585
Vasculitis	45	0.6	42	0.6	3	0.7	0.918
Mastocytosis	39	0.5	38	0.6	1	0.2	0.336
Motor Neuropathy	33	0.5	30	0.4	3	0.7	0.508
Idiopathic Thrombocytopenia Pupura	32	0.4	30	0.4	2	0.4	0.992
Alcoholism	29	0.4	26	0.4	3	0.7	0.368

Multiple Sclerosis	27	0.4	26	0.4	1	0.2	0.579
Myasthenia Gravis	22	0.3	22	0.3	0	0.0	0.223
Autoimmune Pancreatitis	21	0.3	20	0.3	1	0.2	0.772
Diabetes Insipidus	18	0.2	18	0.3	0	0.0	0.271
Delta Storage Pool Deficiency	16	0.2	16	0.2	0	0.0	0.299
Multiple System Atrophy	16	0.2	15	0.2	1	0.2	0.994
Autoimmune Hepatitis	12	0.2	11	0.2	1	0.2	0.771
Bechet's Disease	12	0.2	11	0.2	1	0.2	0.771
Conn's Syndrome	9	0.1	8	0.1	1	0.2	0.552
Parkinson's Disease	6	0.1	5	0.1	1	0.2	0.295
Hepatitis C	5	0.1	5	0.1	0	0.0	0.562
Fabry's Disease	2	0.0	1	0.0	1	0.2	<i>0.011</i>

P Values: **Bold:** A higher proportion of female patients. *Italicized:* a higher proportion of male patients

Supplemental Table S4A. Medications

Medication	Overall		Female		Male		p-value
	N	%	N	%	N	%	
Beta Blockers	3,200	41.8	3,023	42.1	177	37.0	0.028
Florinef	1,991	26.0	1,859	25.9	132	27.7	0.388
Midodrine	1,815	23.8	1,716	24.0	99	20.8	0.112
Benzodiazepines	1,810	23.7	1,717	24	93	19.5	0.024
SSRI	1,576	20.6	1,497	20.9	79	16.5	0.020
SNRI	1,332	17.5	1,264	17.7	68	14.2	0.052
Amphetamine	722	9.5	670	9.4	52	10.9	0.278
Pyridostigmine	543	7.1	505	7.1	38	7.9	0.465
Ivabradine	509	6.7	481	6.7	28	5.9	0.455
Pseudoephedrine	416	5.5	395	5.5	21	4.4	0.297
Clonidine/Catapres	346	4.5	316	4.4	30	6.3	0.061
Calcium Channel Blockers	299	3.9	280	3.9	19	4	0.942
Modafinil/Armodafinil	274	3.6	260	3.6	14	2.0	0.419
Ritalin	294	2.9	270	3.81	24	5.0	0.175
Desmopressin	170	2.2	153	2.1	17	3.6	<i>0.040</i>
Dextroamphetamine	163	2.1	148	2.1	15	3.2	0.113
Alpha-methyldopa/Aldomet	36	0.5	33	0.5	3	0.6	0.611
Octreotide	37	0.5	35	0.5	2	0.4	0.827

P Values: **Bold:** A higher proportion of female patients. *Italicized:* a higher proportion of male patients

Supplemental Table S4B. Non-Pharmacological Treatments

Non-Pharmacological Treatment	Overall		Female		Male		p-value
	N	%	N	%	N	%	
Increased Dietary Salt	7,277	91.4	6,854	91.8	423	85.1	<0.001
Vitamins	5,511	72.1	5,199	72.5	312	64.9	<0.001
Compression Garments	4,352	57.0	4,162	58.1	190	39.6	<0.001
Salt Supplements	2,867	37.5	2,699	37.7	168	35.1	0.271
Electrolyte Supplements	2,404	31.5	2,281	31.9	123	25.7	0.005
Herbs	1,488	19.5	1,417	19.8	71	14.9	0.009
Ablation	336	4.4	318	4.4	18	3.8	0.482
IVIG	150	2.0	140	2.0	10	2.1	0.838
Pacemaker	143	1.9	135	1.9	8	1.7	0.724
Recombinant EPO	24	0.3	22	0.3	2	0.4	0.674

P Values: **Bold:** A higher proportion of female patients. *Italicized:* a higher proportion of male patients