

	Site											
	National Jewish Health (N=100)		University of North Carolina (N=127)		Johns Hopkins University School of Medicine (N=110)		Icahn School of Medicine at Mount Sinai (N=226)		University of Arkansas (N=142)		Total (N=705)	
	N	%	N	%	N	%	N	%	N	%	N	%
No	90	90.0	112	88.2	96	87.3	222	98.2	67	47.2	587	83.3
Yes	10	10.0	13	10.2	14	12.7	2	0.9	75	52.8	114	16.2
Unknown	0	0.0	2	1.6	0	0.0	2	0.9	0	0.0	4	0.6
Private Insurance												
No	11	11.0	16	12.6	13	11.8	4	1.8	58	40.8	102	14.5
Yes	89	89.0	109	85.8	97	88.2	222	98.2	84	59.2	601	85.2
Unknown	0	0.0	2	1.6	0	0.0	0	0.0	0	0.0	2	0.3

Table E2: Comparison of PPI-confirmed EoE patients (EoE histologically confirmed following >6 weeks course of a PPI at a high dose) versus those not confirmed (no PPI course received or unsure)

	Greater than 6 week course of high-dose PPI				P-value
	Yes		No/Unsure		
	N*	%	N**	%	
Total Subjects	386	100.0	319	100.0	
Gender					0.19
Male	255	66.1	226	70.8	
Female	131	33.9	93	29.2	
Symptoms					
Abdominal Pain	208	53.9	169	53.1	0.88
Nausea	153	39.7	128	40.3	0.94
Vomiting	162	42.0	120	37.6	0.25
Heartburn	138	36.4	121	38.2	0.64
Chest Pain	77	20.0	71	22.3	0.46
Gastroesophageal Reflux	204	52.8	158	49.5	0.41
Dysphagia	187	48.4	169	53.0	0.26
Esophageal Food Impactions	141	36.5	127	39.9	0.39
Diarrhea	121	31.3	105	32.9	0.69
Bloody Stools	28	7.3	25	7.8	0.78
Co-morbidities					
Gastrointestinal disorders					
GERD	230	59.6	152	47.6	0.002
Barrett's esophagus	0	0.0	3	0.9	0.09
Celiac disease	10	2.6	4	1.3	0.28
Irritable bowel syndrome	23	6.0	23	7.2	0.54
Crohn's disease	3	0.8	1	0.3	0.63
Ulcerative colitis	6	1.6	1	0.3	0.13

	Greater than 6 week course of high-dose PPI				P-value
	Yes		No/Unsure		
	N*	%	N**	%	
Other gastrointestinal disorders	20	5.5	16	5.2	1.00
Allergic disorders					
Allergic conjunctivitis	124	32.1	96	30.1	0.57
Allergic rhinitis	236	61.1	189	59.2	0.64
Asthma	177	45.9	143	44.8	0.82
Eczema	176	45.6	151	47.3	0.65
Urticaria	99	25.6	86	27.0	0.73
Angioedema	49	12.7	44	13.8	0.74
Food allergy	249	64.7	223	69.9	0.15
Food anaphylaxis	102	26.9	86	27.2	0.93
Drug anaphylaxis	43	11.1	33	10.3	0.81
Latex allergy	24	6.2	24	7.5	0.55
Infectious/immunological disorders					
Sinusitis	118	30.6	83	26.0	0.21
Pneumonia	94	24.4	79	24.8	0.93
Immunodeficiency	9	2.3	9	2.8	0.81
Autoimmune disease	16	4.1	17	5.3	0.48
Neurological/developmental disorders					
Developmental delay	48	12.4	31	9.7	0.28
Prematurity	28	7.3	20	6.3	0.65
Depression/anxiety	63	16.3	46	14.4	0.53
Autism/behavioral disorder	32	8.3	12	3.8	0.02
Mitochondrial disorder	3	0.8	0	0.0	0.26
Other systemic problems					

	Greater than 6 week course of high-dose PPI				P-value
	Yes		No/Unsure		
	N*	%	N**	%	
Failure to thrive	88	22.8	62	19.4	0.31
<i>Surgical history</i>					
Tympanostomy tube placement	77	19.9	61	19.1	0.85
Sinus surgery	15	3.9	9	2.8	0.53
Fundoplication	4	1.0	1	0.3	0.38
Gastrostomy tube placement	21	5.4	20	6.3	0.75

* Number who had PPI therapy. Number of missing or unknown values in PPI group (from highest to lowest): Crohn's disease (n=22), ulcerative colitis (n=22), other GI disorders (n=22), food anaphylaxis(n=7), heartburn (n=7), nausea (n=1), chest pain (n=1), and food allergy (n=1).

** Number who did not have (or were unsure) PPI therapy. Number of missing or unknown values in no/unsure PPI group (from highest to lowest): Crohn's disease (n=12), ulcerative colitis (n=12), other GI disorders (n=12), food anaphylaxis (n=3), heartburn (n=2), nausea (n=1), chest pain (n=1), latex allergy (n=1), esophageal food impactions (n=1), and abdominal pain (n=1).

Table E3: Percent of subjects with food allergies stratified by age at enrollment.

	Patients <11 years of age						Patients 11-17 years of age						Patients ≥18 years of age						Total					
	Allergic		Not Allergic		Unknown/ Never Ingested		Allergic		Not Allergic		Unknown/ Never Ingested		Allergic		Not Allergic		Unknown/ Never Ingested		Allergic		Not Allergic		Unknown/ Never Ingested	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Milk	138	40.0	150	43.5	57	16.5	37	19.6	113	59.8	39	20.6	21	12.3	112	65.5	38	22.2	196	27.8	375	53.2	134	19.0
Egg	102	29.6	153	44.3	90	26.1	30	15.9	115	60.8	44	23.3	18	10.5	112	65.5	41	24.0	150	21.3	380	53.9	175	24.8
Peanut	68	19.7	155	44.9	122	35.4	50	26.5	106	56.1	33	17.5	23	13.5	105	61.4	43	25.1	141	20.0	366	51.9	198	28.1
Fish	25	7.2	210	60.9	110	31.9	13	6.9	123	65.1	53	28.0	10	5.8	116	67.8	45	26.3	48	6.8	449	63.7	208	29.5
Shellfish	24	7.0	193	55.9	128	37.1	14	7.4	118	62.4	57	30.2	11	6.4	113	66.1	47	27.5	49	7.0	424	60.1	232	32.9
Tree Nuts	40	11.6	156	45.2	149	43.2	39	20.6	99	52.4	51	27.0	26	15.2	105	61.4	40	23.4	105	14.9	360	51.1	240	34.0
Barley	16	4.6	203	58.8	126	36.5	5	2.6	132	69.8	52	27.5	4	2.3	113	66.1	54	31.6	25	3.5	448	63.5	232	32.9
Beef	31	9.0	214	62.0	100	29.0	14	7.4	130	68.8	45	23.8	9	5.3	116	67.8	46	26.9	54	7.7	460	65.2	191	27.1
Chicken	22	6.4	236	68.4	87	25.2	11	5.8	144	76.2	34	18.0	6	3.5	118	69.0	47	27.5	39	5.5	498	70.6	168	23.8
Corn	23	6.7	250	72.5	72	20.9	6	3.2	140	74.1	43	22.8	9	5.3	117	68.4	45	26.3	38	5.4	507	71.9	160	22.7
Lamb	9	2.6	185	53.6	151	43.8	4	2.1	129	68.3	56	29.6	4	2.3	117	68.4	50	29.2	17	2.4	431	61.1	257	36.5
Oat	19	5.5	224	64.9	102	29.6	6	3.2	136	72.0	47	24.9	7	4.1	116	67.8	48	28.1	32	4.5	476	67.5	197	27.9
Peas	28	8.1	207	60.0	110	31.9	6	3.2	128	67.7	55	29.1	7	4.1	115	67.3	49	28.7	41	5.8	450	63.8	214	30.4
Pork	18	5.2	225	65.2	102	29.6	7	3.7	138	73.0	44	23.3	3	1.8	119	69.6	49	28.7	28	4.0	482	68.4	195	27.7
Potato	12	3.5	256	74.2	77	22.3	4	2.1	145	76.7	40	21.2	4	2.3	116	67.8	51	29.8	20	2.8	517	73.3	168	23.8
Rye	9	2.6	203	58.8	133	38.6	3	1.6	131	69.3	55	29.1	5	2.9	113	66.1	53	31.0	17	2.4	447	63.4	241	34.2
Soy	65	18.8	204	59.1	76	22.0	20	10.6	126	66.7	43	22.8	17	9.9	113	66.1	41	24.0	102	14.5	443	62.8	160	22.7
Turkey	12	3.5	239	69.3	94	27.2	10	5.3	138	73.0	41	21.7	6	3.5	118	69.0	47	27.5	28	4.0	495	70.2	182	25.8
Wheat	56	16.2	207	60.0	82	23.8	14	7.4	132	69.8	43	22.8	17	9.9	109	63.7	45	26.3	87	12.3	448	63.5	170	24.1

Table E4: Percent of subjects with family history of various diseases

	History in ≥ 1 Parent		History in ≥ 1 Sibling	
	N Total#	% Cases	N Total#	% Cases
Asthma	694	31.6	558	26.2
Allergic rhinitis	694	52.6	558	34.4
Atopic Dermatitis	694	23.6	558	26.7
Urticaria	694	16.1	558	9.1
Angioedema	694	5.8	558	4.3
Food allergy	694	27.1	558	26.3
Eosinophilic esophagitis	694	3.0	558	4.5
Gastroesophageal reflux disease (GERD)	694	29.0	558	7.7
Food Impaction	694	8.1	558	1.1
Esophageal dilation	694	5.2	558	0.4
Eosinophilic GI disorder (excluding EoE)	694	2.9	558	2.9
Hypereosinophilic syndrome	694	0.1	558	0.0
Immunodeficiency	694	1.2	558	0.2
Inflammatory bowel disease	694	7.9	558	2.3
Barrett's esophagus	694	0.9	558	0.2
Esophageal cancer	694	0.0	558	0.0
Autoimmune disease	694	6.9	558	2.0
Celiac disease	694	1.4	558	1.6

Number of subjects with data available.