

Online resource 1: Regression models supporting adjusted values presented in main text

Mental component summary score

Analysis of Maximum Likelihood Estimates						
Parameter	DF	Estimate	Standard Error	Wald 95% Confidence Limits		Pr > ChiSq
Intercept	1	40.97	0.71	39.58	42.36	<.0001
Case (chronic hives)	1	-5.14	0.62	-3.92	-6.37	<.0001
CCI	1	-0.44	0.10	-0.65	-0.24	<.0001
BMI: Underweight vs. normal	1	-0.06	1.33	-2.67	2.55	0.9659
BMI: Overweight vs. normal	1	1.09	0.57	-0.03	2.20	0.0557
BMI: Obese vs. normal	1	0.82	0.69	-0.53	2.17	0.2323
BMI: Decline to answer vs. normal	1	-2.20	1.52	-5.17	0.78	0.1483
Smoking: Current vs. never	1	-2.69	0.59	-3.86	-1.52	<.0001
Smoking: Former vs. never	1	-0.35	0.58	-1.49	0.80	0.5537
Scale	1	10.39	0.17	10.06	10.73	

Criteria For Assessing Goodness Of Fit			
Criterion	DF	Value	Value/DF
Deviance	1836	199123.59	108.46
Scaled Deviance	1836	1845	1.00
Pearson Chi-Square	1836	199123.59	108.46
Scaled Pearson X2	1836	1845	1.00

Physical component summary score

Analysis of Maximum Likelihood Estimates						
Parameter	DF	Estimate	Standard Error	Wald 95% Confidence Limits		Pr > ChiSq
Intercept	1	47.26	0.61	46.05	48.46	<.0001
Case (chronic hives)	1	-5.28	0.54	-4.22	-6.33	<.0001
CCI	1	-0.71	0.09	-0.89	-0.54	<.0001
BMI: Underweight vs. normal	1	0.00	1.15	-2.25	2.25	0.9974
BMI: Overweight vs. normal	1	-2.26	0.49	-3.22	-1.30	<.0001
BMI: Obese vs. normal	1	-5.18	0.59	-6.34	-4.02	<.0001
BMI: Decline to answer vs. normal	1	-4.38	1.31	-6.95	-1.82	0.0008
Smoking: Current vs. never	1	-1.58	0.51	-2.58	-0.57	0.0021
Smoking: Former vs. never	1	-0.19	0.50	-1.18	0.80	0.7079
Scale	1	8.97	0.15	8.68	9.26	

Criteria For Assessing Goodness Of Fit			
Criterion	DF	Value	Value/DF
Deviance	1836	148288.006	80.77
Scaled Deviance	1836	1845	1.00
Pearson Chi-Square	1836	148288.006	80.77
Scaled Pearson X2	1836	1845	1.00

SF-6D health utility score

Analysis of Maximum Likelihood Estimates						
Parameter	DF	Estimate	Standard Error	Wald 95% Confidence Limits		Pr > ChiSq
Intercept	1	0.659	0.009	0.642	0.676	<.0001
Case (chronic hives)	1	-0.078	0.008	-0.063	-0.093	<.0001
CCI	1	-0.008	0.001	-0.010	-0.005	<.0001
BMI: Underweight vs. normal	1	-0.012	0.016	-0.043	0.020	0.4684
BMI: Overweight vs. normal	1	-0.010	0.007	-0.024	0.003	0.138
BMI: Obese vs. normal	1	-0.027	0.008	-0.043	-0.010	0.0013
BMI: Decline to answer vs. normal	1	-0.055	0.018	-0.091	-0.019	0.0027
Smoking: Current vs. never	1	-0.034	0.007	-0.048	-0.020	<.0001
Smoking: Former vs. never	1	-0.012	0.007	-0.026	0.002	0.0853
Scale	1	0.125	0.002	0.121	0.129	

Criteria For Assessing Goodness Of Fit			
Criterion	DF	Value	Value/DF
Deviance	1836	28.8788	0.016
Scaled Deviance	1836	1845	1.005
Pearson Chi-Square	1836	28.8788	0.016
Scaled Pearson X2	1836	1845	1.005

Logistic models

Depression in prior 12 months

Analysis of Maximum Likelihood Estimates					
Parameter	DF	Estimate	Standard Error	Wald Chi-Square	Pr > ChiSq
Intercept	1	-2.2936	0.1407	265.5656	<.0001
Case (chronic hives)	1	0.7867	0.1427	30.3766	<.0001
CCI	1	0.1622	0.0435	13.888	0.0002
BMI: Underweight vs. normal	1	0.1109	0.3413	0.1056	0.7452
BMI: Overweight vs. normal	1	0.0934	0.1507	0.3838	0.5356
BMI: Obese vs. normal	1	0.4608	0.1672	7.5929	0.0059
BMI: Decline to answer vs. normal	1	-0.3470	0.4918	0.4980	0.4804
Smoking: Current vs. never	1	0.7658	0.1545	24.5725	<.0001
Smoking: Former vs. never	1	0.3693	0.1597	5.3466	0.0208

Odds Ratio Estimates			
Effect	Point Estimate	95% Wald Confidence Limits	
Case (chronic hives)	2.196	1.66	2.905
CCI	1.176	1.08	1.281
BMI: Underweight vs. normal	1.117	0.572	2.181
BMI: Overweight vs. normal	1.098	0.817	1.475
BMI: Obese vs. normal	1.585	1.142	2.2
BMI: Decline to answer vs. normal	0.707	0.27	1.853
Smoking: Current vs. never	2.151	1.589	2.911
Smoking: Former vs. never	1.447	1.058	1.978

Model Fit Statistics		
Criterion	Intercept Only	Intercept and Covariates
AIC	1756.214	1643.943
SC	1761.735	1693.626
-2 Log L	1754.214	1625.943

Anxiety in prior 12 months

Analysis of Maximum Likelihood Estimates					
Parameter	DF	Estimate	Standard Error	Wald Chi-Square	Pr > ChiSq
Intercept	1	-1.5305	0.1134	182.0832	<.0001
Case (chronic hives)	1	1.0703	0.1279	70.0005	<.0001
CCI	1	0.2291	0.0518	19.5837	<.0001
BMI: Underweight vs. normal	1	0.0865	0.2941	0.0866	0.7686
BMI: Overweight vs. normal	1	-0.2698	0.1304	4.2811	0.0385
BMI: Obese vs. normal	1	-0.0937	0.1536	0.3720	0.5419
BMI: Decline to answer vs. normal	1	-0.1873	0.3679	0.2592	0.6107
Smoking: Current vs. never	1	0.6424	0.1333	23.2126	<.0001
Smoking: Former vs. never	1	0.3697	0.1343	7.5752	0.0059

Odds Ratio Estimates			
Effect	Point Estimate	95% Wald Confidence Limits	
Case (chronic hives)	2.916	2.270	3.747
CCI	1.258	1.136	1.392
BMI: Underweight vs. normal	1.090	0.613	1.941
BMI: Overweight vs. normal	0.764	0.591	0.986
BMI: Obese vs. normal	0.911	0.674	1.230
BMI: Decline to answer vs. normal	0.829	0.403	1.705
Smoking: Current vs. never	1.901	1.464	2.469
Smoking: Former vs. never	1.447	1.112	1.883

Model Fit Statistics		
Criterion	Intercept Only	Intercept and Covariates
AIC	2198.257	2039.302
SC	2203.777	2088.984
-2 Log L	2196.257	2021.302

Sleep difficulties in prior 12 months

Analysis of Maximum Likelihood Estimates					
Parameter	DF	Estimate	Standard Error	Wald Chi-Square	Pr > ChiSq
Intercept	1	-1.0742	0.1018	111.4254	<.0001
Case (chronic hives)	1	0.8280	0.1250	43.8407	<.0001
CCI	1	0.2433	0.0542	20.1231	<.0001
BMI: Underweight vs. normal	1	0.2543	0.2740	0.8614	0.3533
BMI: Overweight vs. normal	1	-0.0674	0.1184	0.3239	0.5693
BMI: Obese vs. normal	1	0.2657	0.1407	3.5677	0.0589
BMI: Decline to answer vs. normal	1	0.0885	0.3200	0.0764	0.7822
Smoking: Current vs. never	1	0.5686	0.1222	21.6566	<.0001
Smoking: Former vs. never	1	0.2341	0.1215	3.7116	0.054

Odds Ratio Estimates			
Effect	Point Estimate	95% Wald Confidence Limits	
Case (chronic hives)	2.289	1.791	2.924
CCI	1.275	1.147	1.419
BMI: Underweight vs. normal	1.290	0.754	2.207
BMI: Overweight vs. normal	0.935	0.741	1.179
BMI: Obese vs. normal	1.304	0.990	1.718
BMI: Decline to answer vs. normal	1.092	0.584	2.045
Smoking: Current vs. never	1.766	1.390	2.244
Smoking: Former vs. never	1.264	0.996	1.604

Model Fit Statistics		
Criterion	Intercept Only	Intercept and Covariates
AIC	2448.344	2318.24
SC	2453.864	2367.922
-2 Log L	2446.344	2300.24

Negative binomial models

Absenteeism

Analysis of Maximum Likelihood Estimates						
Parameter	DF	Estimate	Standard Error	Wald 95% Confidence Limits		Pr > ChiSq
Intercept	1	1.4940	0.2860	0.9335	2.0546	<.0001
Case (chronic hives)	1	0.8180	0.4322	-0.0290	1.6650	0.0584
CCI	1	0.0548	0.0764	-0.0950	0.2046	0.4732
BMI: Underweight vs. normal	1	-1.0498	0.9419	-2.8959	0.7963	0.2651
BMI: Overweight vs. normal	1	0.0383	0.3572	-0.6617	0.7384	0.9145
BMI: Obese vs. normal	1	0.2363	0.4455	-0.6370	1.1096	0.5959
BMI: Decline to answer vs. normal	1	0.8406	0.9699	-1.0604	2.7416	0.3861
Smoking: Current vs. never	1	0.5206	0.3808	-0.2259	1.2670	0.1717
Smoking: Former vs. never	1	-0.2083	0.3737	-0.9406	0.5241	0.5773
Dispersion	1	22.7611	1.8756	19.3664	26.7508	

	Point estimate	95% LCL	95%UCL
Chronic hives	11.91	5.61	25.29
Control	5.25	3.76	7.35
	Point estimate	95% LCL	95%UCL
Ratio difference (Chronic hives: Control)	2.27	0.97	5.29

Criteria For Assessing Goodness Of Fit			
Criterion	DF	Value	Value/DF
Deviance	1007	409.2804	0.4064
Scaled Deviance	1007	409.2804	0.4064
Pearson Chi-Square	1007	500.3152	0.4968
Scaled Pearson X2	1007	500.3152	0.4968

Presenteeism

Analysis of Maximum Likelihood Estimates						
Parameter	DF	Estimate	Standard Error	Wald 95% Confidence Limits		Pr > ChiSq
Intercept	1	2.6745	0.1284	2.4229	2.9262	<.0001
Case (chronic hives)	1	0.5928	0.1861	0.2280	0.9576	0.0014
CCI	1	0.0502	0.0410	-0.0302	0.1306	0.2210
BMI: Underweight vs. normal	1	-0.0263	0.3871	-0.7850	0.7324	0.9458
BMI: Overweight vs. normal	1	0.0984	0.1623	-0.2197	0.4166	0.5442
BMI: Obese vs. normal	1	0.0374	0.2063	-0.3669	0.4417	0.8562
BMI: Decline to answer vs. normal	1	0.4131	0.4459	-0.4610	1.2871	0.3543
Smoking: Current vs. never	1	0.1901	0.1676	-0.1384	0.5186	0.2568
Smoking: Former vs. never	1	0.0545	0.1697	-0.2781	0.3871	0.7481
Dispersion	1	4.6563	0.2462	4.1979	5.1647	
		Point estimate	95% LCL	95%UCL		
Chronic hives		30.49	21.96	42.33		
Control		16.85	14.48	19.61		
		Point estimate	95% LCL	95%UCL		
Ratio difference (Chronic hives: Control)		1.81	1.26	2.61		
Criteria For Assessing Goodness Of Fit						
Criterion	DF	Value	Value/DF			
Deviance	986	973.6258	0.9875			
Scaled Deviance	986	973.6258	0.9875			
Pearson Chi-Square	986	349.7797	0.3547			
Scaled Pearson X2	986	349.7797	0.3547			

Overall work impairment

Analysis of Maximum Likelihood Estimates						
Parameter	DF	Estimate	Standard Error	Wald 95% Confidence Limits		Pr > ChiSq
Intercept	1	2.8860	0.1254	2.6402	3.1318	<.0001
Case (chronic hives)	1	0.5902	0.1790	0.2393	0.9411	0.0010
CCI	1	0.0397	0.0339	-0.0268	0.1062	0.2419
BMI: Underweight vs. normal	1	-0.1284	0.3753	-0.8641	0.6072	0.7323
BMI: Overweight vs. normal	1	0.0751	0.1574	-0.2334	0.3836	0.6332
BMI: Obese vs. normal	1	0.0564	0.1977	-0.3311	0.4440	0.7754
BMI: Decline to answer vs. normal	1	0.4708	0.4288	-0.3696	1.3113	0.2722
Smoking: Current vs. never	1	0.1922	0.1628	-0.1269	0.5114	0.2378
Smoking: Former vs. never	1	0.0050	0.1638	-0.3160	0.3261	0.9755
Dispersion	1	4.4629	0.2278	4.0381	4.9324	

	Point estimate	95% LCL	95%UCL
Chronic hives	36.61	26.71	50.16
Control	20.29	17.51	23.50
	Point estimate	95% LCL	95%UCL
Ratio difference (Chronic hives: Control)	1.80	1.27	2.56

Criteria For Assessing Goodness Of Fit			
Criterion	DF	Value	Value/DF
Deviance	1007	1022.1109	1.015
Scaled Deviance	1007	1022.1109	1.015
Pearson Chi-Square	1007	370.3366	0.3678
Scaled Pearson X2	1007	370.3366	0.3678

Activity impairment

Analysis of Maximum Likelihood Estimates						
Parameter	DF	Estimate	Standard Error	Wald 95% Confidence Limits		Pr > ChiSq
Intercept	1	3.0427	0.0791	2.8878	3.1977	<.0001
Case (chronic hives)	1	0.5043	0.1032	0.3021	0.7065	<.0001
CCI	1	0.0421	0.0234	-0.0037	0.0880	0.0717
BMI: Underweight vs. normal	1	0.0721	0.2205	-0.3600	0.5042	0.7437
BMI: Overweight vs. normal	1	0.0598	0.0942	-0.1249	0.2444	0.5257
BMI: Obese vs. normal	1	0.2433	0.1142	0.0194	0.4671	0.0332
BMI: Decline to answer vs. normal	1	0.3239	0.2516	-0.1692	0.8170	0.1979
Smoking: Current vs. never	1	0.2496	0.0985	0.0565	0.4427	0.0113
Smoking: Former vs. never	1	0.0469	0.0966	-0.1425	0.2362	0.6276
Dispersion	1	2.9249	0.1056	2.7250	3.1394	
		Point estimate		95% LCL	95%UCL	
Chronic hives		42.16		35.22	50.47	
Control		25.46		23.29	27.83	
		Point estimate		95% LCL	95%UCL	
Ratio difference (Chronic hives: Control)		1.66		1.35	2.03	
Criteria For Assessing Goodness Of Fit						
Criterion	DF		Value		Value/DF	
Deviance	1836		2067.6362		1.1262	
Scaled Deviance	1836		2067.6362		1.1262	
Pearson Chi-Square	1836		678.1731		0.3694	
Scaled Pearson X2	1836		678.1731		0.3694	

HCP visits

Analysis of Maximum Likelihood Estimates						
Parameter	DF	Estimate	Standard Error	Wald 95% Confidence Limits		Pr > ChiSq
Intercept	1	1.2409	0.0508	1.1413	1.3405	<.0001
Case (chronic hives)	1	0.6216	0.0617	0.5006	0.7426	<.0001
CCI	1	0.1296	0.0183	0.0936	0.1655	<.0001
BMI: Underweight vs. normal	1	0.2038	0.1356	-0.0620	0.4696	0.1329
BMI: Overweight vs. normal	1	0.0825	0.0590	-0.0332	0.1982	0.1620
BMI: Obese vs. normal	1	0.3971	0.0701	0.2596	0.5346	<.0001
BMI: Decline to answer vs. normal	1	-0.0940	0.1587	-0.4051	0.2170	0.5535
Smoking: Current vs. never	1	0.2656	0.0614	0.1453	0.3860	<.0001
Smoking: Former vs. never	1	0.2406	0.0599	0.1233	0.3580	<.0001
Dispersion	1	0.9471	0.0382	0.8752	1.0249	
		Point estimate	95% LCL	95%UCL		
Chronic hives		9.06	8.15	10.09		
Control		4.87	4.61	5.15		
		Point estimate	95% LCL	95%UCL		
Ratio difference (Chronic hives: Control)		1.86	1.65	2.10		
Criteria For Assessing Goodness Of Fit						
Criterion	DF	Value		Value/DF		
Deviance	1836	2062.072		1.1231		
Scaled Deviance	1836	2062.072		1.1231		
Pearson Chi-Square	1836	2245.2565		1.2229		
Scaled Pearson X2	1836	2245.2565		1.2229		

GP visits

Analysis of Maximum Likelihood Estimates						
Parameter	DF	Estimate	Standard Error	Wald 95% Confidence Limits		Pr > ChiSq
Intercept	1	0.4076	0.0580	0.2939	0.5214	<.0001
Case (chronic hives)	1	0.6278	0.0687	0.4931	0.7624	<.0001
CCI	1	0.0426	0.0160	0.0113	0.0739	0.0076
BMI: Underweight vs. normal	1	-0.2389	0.1634	-0.5592	0.0814	0.1438
BMI: Overweight vs. normal	1	0.1156	0.0669	-0.0156	0.2468	0.0841
BMI: Obese vs. normal	1	0.2825	0.0789	0.1278	0.4372	0.0003
BMI: Decline to answer vs. normal	1	-0.0752	0.1824	-0.4326	0.2822	0.6801
Smoking: Current vs. never	1	0.1500	0.0701	0.0127	0.2873	0.0322
Smoking: Former vs. never	1	0.2269	0.0679	0.0938	0.3600	0.0008
Dispersion	1	0.9937	0.0540	0.8934	1.1054	

	Point estimate	95% LCL	95%UCL
Chronic hives	3.52	3.13	3.96
Control	1.88	1.76	2.00
	Point estimate	95% LCL	95%UCL
Ratio difference (Chronic hives: Control)	1.87	1.64	2.14

Criteria For Assessing Goodness Of Fit			
Criterion	DF	Value	Value/DF
Deviance	1836	1981.0683	1.079
Scaled Deviance	1836	1981.0683	1.079
Pearson Chi-Square	1836	2215.3631	1.2066
Scaled Pearson X2	1836	2215.3631	1.2066

Allergist visits

Analysis of Maximum Likelihood Estimates						
Parameter	DF	Estimate	Standard Error	Wald 95% Confidence Limits		Pr > ChiSq
Intercept	1	-3.0550	0.2247	-3.4954	-2.6147	<.0001
Case (chronic hives)	1	2.0441	0.2302	1.5930	2.4952	<.0001
CCI	1	0.0545	0.0297	-0.0037	0.1127	0.0665
BMI: Underweight vs. normal	1	-1.1335	0.7479	-2.5994	0.3324	0.1296
BMI: Overweight vs. normal	1	-0.3575	0.2704	-0.8874	0.1724	0.1860
BMI: Obese vs. normal	1	0.3131	0.2882	-0.2518	0.8779	0.2773
BMI: Decline to answer vs. normal	1	-0.7869	0.8976	-2.5461	0.9723	0.3806
Smoking: Current vs. never	1	-0.0650	0.2664	-0.5872	0.4572	0.8072
Smoking: Former vs. never	1	-0.3052	0.2733	-0.8408	0.2305	0.2641
Dispersion	1	6.7072	1.3121	4.5711	9.8414	
		Point estimate	95% LCL	95%UCL		
Chronic hives		0.30	0.21	0.41		
Control		0.04	0.03	0.05		
		Point estimate	95% LCL	95%UCL		
Ratio difference (Chronic hives: Control)		7.72	4.92	12.12		
Criteria For Assessing Goodness Of Fit						
Criterion	DF	Value		Value/DF		
Deviance	1836	391.0082		0.213		
Scaled Deviance	1836	391.0082		0.213		
Pearson Chi-Square	1836	2850.0224		1.5523		
Scaled Pearson X2	1836	2850.0224		1.5523		

Dermatologist visits

Analysis of Maximum Likelihood Estimates						
Parameter	DF	Estimate	Standard Error	Wald 95% Confidence Limits		Pr > ChiSq
Intercept	1	-2.2314	0.1622	-2.5493	-1.9135	<.0001
Case (chronic hives)	1	1.5538	0.1748	1.2112	1.8965	<.0001
CCI	1	0.0639	0.0292	0.0068	0.1211	0.0283
BMI: Underweight vs. normal	1	-0.0307	0.4063	-0.8269	0.7656	0.9398
BMI: Overweight vs. normal	1	-0.4090	0.1929	-0.7871	-0.0309	0.0340
BMI: Obese vs. normal	1	-0.3330	0.2292	-0.7822	0.1162	0.1462
BMI: Decline to answer vs. normal	1	-0.8986	0.5785	-2.0324	0.2352	0.1203
Smoking: Current vs. never	1	0.3793	0.1909	0.0052	0.7534	0.0469
Smoking: Former vs. never	1	0.0784	0.1982	-0.3101	0.4669	0.6925
Dispersion	1	4.6721	0.6494	3.5579	6.1353	

	Point estimate	95% LCL	95%UCL
Chronic hives	0.50	0.38	0.66
Control	0.11	0.09	0.13
	Point estimate	95% LCL	95%UCL
Ratio difference (Chronic hives: Control)	4.73	3.36	6.66

Criteria For Assessing Goodness Of Fit			
Criterion	DF	Value	Value/DF
Deviance	1836	656.7552	0.3577
Scaled Deviance	1836	656.7552	0.3577
Pearson Chi-Square	1836	2669.3129	1.4539
Scaled Pearson X2	1836	2669.3129	1.4539

Psychiatrist visits

Analysis of Maximum Likelihood Estimates						
Parameter	DF	Estimate	Standard Error	Wald 95% Confidence Limits		Pr > ChiSq
Intercept	1	-2.7598	0.4045	-3.5526	-1.9669	46.54
Case (chronic hives)	1	1.051	0.4609	0.1476	1.9543	5.2
CCI	1	0.074	0.1057	-0.1332	0.2813	0.49
BMI: Underweight vs. normal	1	-0.0696	0.9446	-1.921	1.7817	0.01
BMI: Overweight vs. normal	1	0.2591	0.4095	-0.5435	1.0617	0.4
BMI: Obese vs. normal	1	1.4527	0.5085	0.456	2.4494	8.16
BMI: Decline to answer vs. normal	1	0.9263	1.0987	-1.2271	3.0798	0.71
Smoking: Current vs. never	1	0.3844	0.454	-0.5053	1.2742	0.72
Smoking: Former vs. never	1	0.7054	0.4469	-0.1706	1.5814	2.49
Dispersion	1	45.3912	6.3897	34.4468	59.8129	

	Point estimate	95% LCL	95%UCL
Chronic hives	0.3861	0.1751	0.8516
Control	0.135	0.09219	0.1977
	Point estimate	95% LCL	95%UCL
Ratio difference (Chronic hives: Control)	2.8604	1.159	7.059

Criteria For Assessing Goodness Of Fit			
Criterion	DF	Value	Value/DF
Deviance	1836	227.554	0.1239
Scaled Deviance	1836	227.554	0.1239
Pearson Chi-Square	1836	2149.9379	1.171
Scaled Pearson X2	1836	2149.9379	1.171

Psychologist visits

Analysis of Maximum Likelihood Estimates						
Parameter	DF	Estimate	Standard Error	Wald 95% Confidence Limits		Pr > ChiSq
Intercept	1	-3.4095	0.4175	-4.2277	-2.5913	66.7
Case (chronic hives)	1	0.7809	0.4847	-0.1691	1.7308	2.6
CCI	1	0.2964	0.1604	-0.018	0.6108	3.41
BMI: Underweight vs. normal	1	1.1772	0.9986	-0.78	3.1343	1.39
BMI: Overweight vs. normal	1	-0.4783	0.4687	-1.397	0.4404	1.04
BMI: Obese vs. normal	1	1.0689	0.5236	0.0425	2.0952	4.17
BMI: Decline to answer vs. normal	1	-1.1554	1.5728	-4.2381	1.9273	0.54
Smoking: Current vs. never	1	1.397	0.4966	0.4238	2.3702	7.92
Smoking: Former vs. never	1	1.5289	0.4906	0.5674	2.4904	9.71
Dispersion	1	56.6071	8.8814	41.6218	76.9874	
		Point estimate		95% LCL	95%UCL	
Chronic hives		0.2395		0.1029		0.5576
Control		0.1097		0.07158		0.1681
		Point estimate		95% LCL	95%UCL	
Ratio difference (Chronic hives: Control)		2.1833		0.8444		5.6452
Criteria For Assessing Goodness Of Fit						
Criterion	DF	Value		Value/DF		
Deviance	1836	180.7472		0.0984		
Scaled Deviance	1836	180.7472		0.0984		
Pearson Chi-Square	1836	1481.8827		0.8071		
Scaled Pearson X2	1836	1481.8827		0.8071		

ER visits

Analysis of Maximum Likelihood Estimates						
Parameter	DF	Estimate	Standard Error	Wald 95% Confidence Limits		Pr > ChiSq
Intercept	1	-1.5798	0.1466	-1.8671	-1.2926	<.0001
Case (chronic hives)	1	0.9790	0.1637	0.6582	1.2999	<.0001
CCI	1	0.2166	0.0564	0.1060	0.3271	0.0001
BMI: Underweight vs. normal	1	0.6893	0.1694	0.3572	1.0213	<.0001
BMI: Overweight vs. normal	1	-0.0995	0.1767	-0.4458	0.2467	0.5731
BMI: Obese vs. normal	1	0.0037	0.3874	-0.7556	0.7630	0.9924
BMI: Decline to answer vs. normal	1	-0.0802	0.1644	-0.4025	0.2420	0.6255
Smoking: Current vs. never	1	0.1792	0.1953	-0.2037	0.5620	0.3590
Smoking: Former vs. never	1	-0.7090	0.5156	-1.7196	0.3016	0.1691
Dispersion	1	5.7245	0.5052	4.8154	6.8054	
		Point estimate		95% LCL	95%UCL	
Chronic hives		0.75		0.57		0.99
Control		0.28		0.24		0.33
		Point estimate		95% LCL	95%UCL	
Ratio difference (Chronic hives: Control)		2.66		1.93		3.67
Criteria For Assessing Goodness Of Fit						
Criterion	DF	Value		Value/DF		
Deviance	1836	846.8431		0.4612		
Scaled Deviance	1836	846.8431		0.4612		
Pearson Chi-Square	1836	3853.2709		2.0987		
Scaled Pearson X2	1836	3853.2709		2.0987		

Hospitalizations

Analysis of Maximum Likelihood Estimates						
Parameter	DF	Estimate	Standard Error	Wald 95% Confidence Limits		Pr > ChiSq
Intercept	1	-2.209	0.1945	-2.5902	-1.8278	<.0001
Case (chronic hives)	1	0.6958	0.2246	0.2557	1.1359	0.0019
CCI	1	0.3084	0.0809	0.1498	0.4669	0.0001
BMI: Underweight vs. normal	1	-0.2867	0.5186	-1.3031	0.7298	0.5804
BMI: Overweight vs. normal	1	0.0644	0.2209	-0.3686	0.4974	0.7706
BMI: Obese vs. normal	1	0.3358	0.2639	-0.1814	0.853	0.2032
BMI: Decline to answer vs. normal	1	-0.7685	0.6850	-2.1110	0.5741	0.2619
Smoking: Current vs. never	1	0.8132	0.2284	0.3656	1.2609	0.0004
Smoking: Former vs. never	1	-0.274	0.2411	-0.7466	0.1986	0.2558
Dispersion	1	10.278	1.1417	8.2671	12.7781	

	Point estimate	95% LCL	95%UCL
Chronic hives	0.33	0.22	0.49
Control	0.16	0.13	0.20

	Point estimate	95% LCL	95%UCL
Ratio difference (Chronic hives: Control)	2.01	1.29	3.11

Criteria For Assessing Goodness Of Fit			
Criterion	DF	Value	Value/DF
Deviance	1836	538.6548	0.2934
Scaled Deviance	1836	538.6548	0.2934
Pearson Chi-Square	1836	4161.086	2.2664
Scaled Pearson X2	1836	4161.086	2.2664