Supplementary tables: urgency dichotomized

**Table S1:** Multivariate adjusted models for depression and anxiety PROMIS measures by UC-related symptoms; urgency dichotomized

|  |  |  |
| --- | --- | --- |
| **Odds of Depression Based on UC Characteristics** | **Odds Ratio** | **95% CI** |
| **Stool frequency** |  |  |
| Normal | — | — |
| 1-2 stools per day above normal | 1.09 | 0.65, 1.83 |
| 3-4 stools per day above normal | 0.77 | 0.36, 1.60 |
| 5+ stools per day above normal | 2.46 | 0.88, 6.89 |
| **Urgency** |  |  |
| No urgency | — | — |
| Urgency | 3.03 | 1.82, 5.11 |
| **Rectal bleeding** |  |  |
| No blood | — | — |
| A little blood | 1.13 | 0.67, 1.89 |
| Occasionally a lot of blood | 1.32 | 0.49, 3.37 |
| Usually a lot of blood | 0.52 | 0.06, 2.95 |
|  | | |
| **Odds of Anxiety Based on UC Characteristics** | **Odds Ratio** | **95% CI** |
| **Stool frequency** |  |  |
| Normal | — | — |
| 1-2 stools per day above normal | 0.86 | 0.54, 1.35 |
| 3-4 stools per day above normal | 0.95 | 0.48, 1.84 |
| 5+ stools per day above normal | 1.45 | 0.54, 3.94 |
| **Urgency** |  |  |
| No urgency | — | — |
| Urgency | 2.12 | 1.39, 3.26 |
| **Rectal bleeding** |  |  |
| No blood | — | — |
| A little blood | 1.27 | 0.80, 2.00 |
| Occasionally a lot of blood | 1.25 | 0.50, 3.04 |
| Usually a lot of blood | 0.29 | 0.04, 1.59 |
| \* OR adjusted for race, smoking status, education, age, sex, biologic/immunomodulator/5-ASA use, time from diagnosis, prior hospitalization  UC= ulcerative colitis, 5-ASA=5-aminosalicylate, PROMIS= Patient Reported Outcome Information Measurement System, OR= odds ratio, CI= confidence interval | | |

**Table S2:** Multivariate adjusted models for fatigue and sleep impairment PROMIS measures by UC related symptoms; urgency dichotomized

|  |  |  |
| --- | --- | --- |
| **Odds of Fatigue Based on UC Characteristics** | **Odds Ratio** | **95% CI** |
| **Stool frequency** |  |  |
| Normal | — | — |
| 1-2 stools per day above normal | 1.81 | 1.14, 2.87 |
| 3-4 stools per day above normal | 1.81 | 0.92, 3.56 |
| 5+ stools per day above normal | 2.91 | 1.06, 8.17 |
| **Urgency** |  |  |
| No urgency | — | — |
| Urgency | 1.93 | 1.26, 2.97 |
| **Rectal bleeding** |  |  |
| No blood | — | — |
| A little blood | 1.27 | 0.79, 2.04 |
| Occasionally a lot of blood | 0.85 | 0.33, 2.10 |
| Usually a lot of blood | 1.64 | 0.29, 13.3 |
|  | | |
| **Odds of Sleep Impairment Based on UC Characteristics** | **Odds Ratio** | **95% CI** |
| **Stool frequency** |  |  |
| Normal | — | — |
| 1-2 stools per day above normal | 1.16 | 0.67, 1.97 |
| 3-4 stools per day above normal | 1.12 | 0.49, 2.44 |
| 5+ stools per day above normal | 2.71 | 0.90, 7.90 |
| **Urgency** |  |  |
| No urgency | — | — |
| Urgency | 0.81 | 0.49, 1.32 |
| **Rectal bleeding** |  |  |
| No blood | — | — |
| A little blood | 1.37 | 0.79, 2.33 |
| Occasionally a lot of blood | 0.52 | 0.13, 1.71 |
| Usually a lot of blood | 4.18 | 0.78, 25.6 |
| \* OR adjusted for race, smoking status, education, age, sex, biologic/immunomodulator/5-ASA use, time from diagnosis, prior hospitalization  UC= ulcerative colitis, 5-ASA=5-aminosalicylate, PROMIS= Patient Reported Outcome Information Measurement System, OR= odds ratio, CI= confidence interval | | |

**Table S3:** Multivariate adjusted models for social impairment and pain PROMIS measures by UC related symptoms; urgency dichotomized

|  |  |  |
| --- | --- | --- |
| **Odds of Social Impairment Based on UC Characteristics** | **Odds ratio** | **95% CI** |
| **Stool frequency** |  |  |
| Normal | — | — |
| 1-2 stools per day above normal | 1.35 | 0.80, 2.26 |
| 3-4 stools per day above normal | 1.98 | 0.97, 3.99 |
| 5+ stools per day above normal | 4.81 | 1.72, 13.8 |
| **Urgency** |  |  |
| No urgency | — | — |
| Urgency | 2.13 | 1.30, 3.51 |
| **Rectal bleeding** |  |  |
| No blood | — | — |
| A little blood | 0.97 | 0.57, 1.63 |
| Occasionally a lot of blood | 0.48 | 0.15, 1.32 |
| Usually a lot of blood | 1.56 | 0.29, 9.53 |
|  | | |
| **Odds of Pain Based on UC Characteristics** | **Odds ratio** | **95% CI** |
| **Stool frequency** |  |  |
| Normal | — | — |
| 1-2 stools per day above normal | 1.63 | 0.96, 2.73 |
| 3-4 stools per day above normal | 3.46 | 1.72, 6.97 |
| 5+ stools per day above normal | 8.10 | 2.73, 26.1 |
| **Urgency** |  |  |
| No urgency | — | — |
| Urgency | 1.42 | 0.86, 2.35 |
| **Rectal Bleeding** |  |  |
| No blood | — | — |
| A little blood | 2.54 | 1.53, 4.22 |
| Occasionally or usually a lot of blood | 1.86 | 0.70, 4.83 |
| \* OR adjusted for race, smoking status, education, age, sex, biologic/immunomodulator/5-ASA use, time from diagnosis, prior hospitalization  UC= ulcerative colitis, 5-ASA=5-aminosalicylate, PROMIS= Patient Reported Outcome Information Measurement System, OR= odds ratio, CI= confidence interval | | |

**Table S4:** 12-month risk of hospitalization, corticosteroids, and colectomy based on level on urgency in UC patients followed longitudinally**;** urgency dichotomized

|  |  |  |
| --- | --- | --- |
| **Clinical Outcome** | **Odds ratio** | **95% CI** |
| **Hospitalization** |  |  |
| No urgency (reference) | — | — |
| Urgency | 1.78 | 1.55, 2.03 |
| Biologic use | 1.20 | 1.07,1.35 |
| Female Sex | 0.96 | 0.84,1.09 |
| Age | 0.99 | 0.98,0.99 |
| Body mass index | 0.99 | 0.98,1.00 |
| **Corticosteroids** |  |  |
| No urgency (reference) | — | — |
| Urgency | 1.34 | 1.17, 1.53 |
| Biologic use | 0.97 | 0.85,1.11 |
| Female sex | 1.02 | 0.88,1.18 |
| Age | 0.99 | 0.99,1.00 |
| Body mass index | 1.00 | 0.99,1.02 |
| **Colectomy** |  |  |
| No urgency (reference) | — | — |
| Urgency | 1.55 | 1.28,1.89 |
| Biologic use | 1.36 | 1.15,1.62 |
| Female sex | 0.82 | 0.69,0.98 |
| Age | 1.00 | 0.99,1.00 |
| Body mass index | 1.00 | 0.98,1.02 |
| Full logistic regression model variables are listed in table above | | |
| Hospitalization: UC-related hospitalization, Corticosteroids: new reported corticosteroid use, Colectomy: interval report of colectomy, all clinical events within 12 months of symptom report  UC= ulcerative colitis, CI= confidence interval | | |