# Calculate\_disease\_scores()

## Calculating Disease Activity Scores for SPARC

Data elements from +/- 7 days can be collapsed together to calculate scores.

| **Score Element** | **Derived Variable (Y/N)** | **DDM Table** | **DDM Data Source** | **Other DDM Filters** | **DDM Variable** | **Notes** |
| --- | --- | --- | --- | --- | --- | --- |
| ABDOMINAL.PAIN.SCORE | N | Observations | SF\_SPARC; ECRF\_SPARC | FOR SF, OBS\_TEST\_CONCEPT\_NAME equals Abdominal Pain-Pain Scale; For ECRF, OBS\_TEST\_CONCEPT\_NAME equals Abdominal Pain | DESCRIPTIVE\_SYMP\_TEST\_RESULTS | Use to calculate *A* for sCDAI equation.   |  |  | | --- | --- | | DESCRIPTIVE\_SYMP\_TEST\_RESULTS | A | | None | 0 | | Mild | 1 | | Moderate | 2 | | Severe | 3 | |
| DAILY.BM | N | Observations | SF\_SPARC; ECRF\_SPARC | FOR SF, OBS\_TEST\_CONCEPT\_NAME equals Current Average Number of Daily Bowel Movements or Current Maximum Number of Daily Bowel Movements. For ECRF, OBS\_TEST\_CONCEPT\_NAME equals Current Average Number of Daily Bowel Movements or Current Average Number of Daily Liquid Bowel Movements. For ECRF, if OBS\_TEST\_RESULT\_DATE before August 1, 2018 use Current Average Number of Daily Bowel Movements. | TEST\_RESULT\_NUMERIC; DESCRIPTIVE\_SYMP\_TEST\_RESULTS | This is *B* for the sCDAI equation. This is N/A for anyone with an ostomy. 20+ was treated as 20 in the sCDAI equation. |
| DAILY.BM.VERSION | Y |  |  |  |  | Refers to the question used to determine the daily.bm variable in the sCDAI equation.   |  |  | | --- | --- | | 1 | Current Average Number of Daily Bowel Movements | | 2 | Current Average Number of Daily Liquid Bowel Movements | | 3 | Current Maximum Number of Daily Bowel Movements | |
| GENERAL.WELL.BEING.SCORE | N | Observations | SF\_SPARC; ECRF\_SPARC | FOR SF, OBS\_TEST\_CONCEPT\_NAME equals Constitutional - General Well-Being; For ECRF, OBS\_TEST\_CONCEPT\_NAME equals General Well-Being | DESCRIPTIVE\_SYMP\_TEST\_RESULTS | Use to calculate *G* for sCDAI equation.   |  |  | | --- | --- | | DESCRIPTIVE\_SYMP\_TEST\_RESULTS | G | | Generally well | 0 | | Slightly under par | 1 | | Poor | 2 | | Very poor | 3 | | Terrible | 4 | |
| SCDAI.DATE | N | Observations | SF\_SPARC; ECRF\_SPARC |  | OBS\_TEST\_RESULT\_DATE |  |
| SCDAI.SCORE[[1]](#footnote-1) | Y | [Calculated] | SF\_SPARC; ECRF\_SPARC |  |  | Crohn’s Disease Only.  Only use SF or ECRF to calculate; Do not combine from multiple sources to calculate. If one variable is missing from equation, leave blank for that source. |
| GLOBAL.ASSESSMENT.SCORE | N | Observations | SF\_SPARC | OBS\_TEST\_CONCEPT\_NAME equals Physician's Global Assessment of Current Disease Status | DESCRIPTIVE\_SYMP\_TEST\_RESULTS | This is *T* for the UCDAI.9.SCORE.   |  |  | | --- | --- | | DESCRIPTIVE\_SYMP\_TEST\_RESULTS | T | | Quiescent | 0 | | Mild | 1 | | Moderate | 2 | | Severe | 3 | |
| RECTAL.BLEEDING.SCORE | Y | Observations | SF\_SPARC; ECRF\_SPARC; | FOR SF, OBS\_TEST\_CONCEPT\_NAME Blood in Stool - Recent Change in Rectal Bleeding Amount  . For ECRF, OBS\_TEST\_CONCEPT\_NAME equals Blood in Stool and/or Blood Passed Alone | DESCRIPTIVE\_SYMP\_TEST\_RESULTS | If from both sources at baseline separate by semicolon. This is *R* for the UCDAI.6 & UCDAI.9 SCORE.   |  |  | | --- | --- | | DESCRIPTIVE\_SYMP\_TEST\_RESULTS | R | | None; No blood seen | 0 | | Visible blood in stool less than half the time; Blood less than 50% of the time | 1 | | Visible blood in stool half the time or more; Blood 50% or more of the time | 2 | | Passing blood alone; ECRF: Blood Passed Alone = Yes | 3 | |
| STOOL.FREQ.SCORE | N | Observations | SF\_SPARC; ECRF\_SPARC; | FOR SF, OBS\_TEST\_CONCEPT\_NAME equals Recent Change in Daily Stool Frequency. For ECRF, OBS\_TEST\_CONCEPT\_NAME equals Recent Change in Daily Stool Frequency | DESCRIPTIVE\_SYMP\_TEST\_RESULTS | If from both sources at baseline separate by semicolon. This is *S* for the UCDAI.6 & UCDAI.9 SCORE.   |  |  | | --- | --- | | DESCRIPTIVE\_SYMP\_TEST\_RESULTS | S | | Normal | 0 | | 1-2 stools/day more than normal | 1 | | 3-4 stools/day more than normal | 2 | | >4 stools/day more than normal; 5 or more stools per day more than normal | 3 | |
| UCDAI.6.SCORE | Y | [Calculated] |  |  |  | Ulcerative Colitis Only.  Only use SF or ECRF to calculate; Do not combine from multiple sources to calculate. If one variable is missing from equation, leave blank for that source. |
| UCDAI.9.SCORE | Y | [Calculated] |  |  |  | Ulcerative Colitis Only.  Only use SF or ECRF to calculate; Do not combine from multiple sources to calculate. If one variable is missing from equation, leave blank for that source. |
| UCDAI.DATE | N | Observations | SF\_SPARC; ECRF\_SPARC |  | OBS\_TEST\_RESULT\_DATE |  |

1. Henao MP, Bewtra M, Osterman MT, Aberra FN, Scott FI, Lichtenstein GR, Kraschnewski J, Lewis JD. Measurement of Inflammatory Bowel Disease Symptoms: Reliability of an Abbreviated Approach to Data Collection. Inflamm Bowel Dis. 2015 Oct;21(10):2262-71. doi: 10.1097/MIB.0000000000000496. PMID: 26193348; PMCID: PMC4567473. [↑](#footnote-ref-1)