Supplemental Table 1. Details on data holdings, identification algorithms, and cohort characteristics by province.

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| --- | --- | --- | --- | --- |
|  | **Alberta** | **Manitoba** | **Nova Scotia** | **Ontario** |
| **Incidence Study Cohort (FY)** | 1999-2008  (n = 9,473) | 1999-2010  (n = 3,392) | 2000-2008  (n = 3,925) | 1999-2010  (n = 28,777) |
| **Birth Cohort (FY)** | 1996-2010  (n = 298) | 1988-2010  (n = 196) | n/a | 1991-2010  (n = 2,633) |
| **Start Date of IBD Cohort** | April 1, 1996 | April 1, 1987 | April 1, 1997 | April 1, 1991 |
| **Start Date of Incident IBD Cohort** | April 1, 1999 | April 1, 1987 | April 1, 2000 | April 1, 1994 |
| **Identification Algorithm** | 2 hospitalizations, 4 outpatient visits or 2 ACCS contacts within 2 years | 5 outpatient visits or hospitalizations | 5 outpatient visits or hospitalizations | If scoped: 4 outpatient visits or 2 hospitalizations  If not scoped: 7 outpatient visits or 3 hospitalizations |
| **Accuracy of Identification Algorithm (when validated locally)** | Sens 83.4%  Spec 99.8%  PPV 97.4%  NPV 98.5% | Sens 74.4-89.2%  Spec 89.8-93.7% | n/a | Sens 89.6-91.1%  Spec 99.5-100%  PPV 57.7-75.2%  NPV >99.9% |
| **Reference for Algorithm Validation Study** | Rezaie, 2012(14) | Bernstein, 1999(15) | n/a | Benchimol, 2009(16-17) |
| **Look-back period to distinguish incident from prevalent cases** | 3 years | 3 years | 3 years | 3 years |
| **CD/UC Classification Algorithm** | Alberta-specific system(16):  UC: ‘greater than +2’  CD: ‘less than -2’  IBDU: ‘between -2 and +2’ | 5 of last 9 outpatient contacts | 5 of last 9 outpatient contacts | 5 of last 7 outpatient contacts |

ACCS: Ambulatory Care Classification System; CD: Crohn’s disease; FY: fiscal years; n: number; NPV: negative predictive value; PPV: positive predictive value; Sens: sensitivity; Spec: specificity; UC: ulcerative colitis; n/a: not applicable (i.e., algorithm not validated in province)