Supplemental Digital Content 4. Total hospital **utilisation** in the periods before (-6 years to day -31, around (-30 to +30 days), and after (+31 days to +4 years) **a** cardinal event.

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|  | **Condition** | **Before**  **(95% CI)** | **Around**  **(95% CI)** | **After**  **(95% CI)** |
| **Total inpatient**  **days during the period** | *Heart failure* | 39.39  (38.01 - 40.76) | 11.66  (11.47 - 11.87) | 38.70  (37.33 - 40.12) |
| *Type2 Diabetes* | 31.99  (30.68 - 33.34) | 9.22  (8.98 - 9.45) | 41.17  (39.24 - 43.24) |
| *COPD* | 32.62  (31.32 - 34.03) | 9.20  (9.02 - 9.38) | 37.69  (36.17 - 39.24) |
| *Cataract with diabetes* | 17.61  (16.78 - 18.45) | 1.57  (1.52 - 1.62) | 21.97  (20.81 - 23.15) |
| *Asthma* | 9.51  (8.87 - 10.19) | 2.70  (2.63 - 2.76) | 8.02  (7.36 - 8.80) |
| *Dialysis* | 41.53  (37.34 - 45.74) | 15.39  (14.42 - 16.26) | 258.44  (239.20 - 278.22) |
| **Total ED presentations during the period** | *Heart failure* | 4.06  (3.91 - 4.23) | 1.16  (1.14 - 1.18) | 3.57  (3.35 - 3.90) |
| *Type2 Diabetes* | 3.74  (3.59 - 3.90) | 0.80  (0.78 - 0.82) | 3.57  (3.41 - 3.74) |
| *COPD* | 4.43  (4.15 - 4.80) | 1.15  (1.13 - 1.18) | 4.33  (4.14 - 4.53) |
| *Cataract with diabetes* | 2.00  (1.90 - 2.12) | 0.08  (0.07 - 0.09) | 2.18  (2.08 - 2.28) |
| *Asthma* | 4.13  (3.96 - 4.32) | 1.18  (1.16 - 1.20) | 3.92  (3.77 - 4.07) |
| *Dialysis* | 4.86  (4.35 - 5.40) | 0.69  (0.63 - 0.75) | 5.57  (5.09 - 6.10) |

Shown are the values (mean and 95% confidence interval) of total inpatient days and emergency department presentations associated with **a** cardinal event, in the six years before the event (up to 31 days before the event), in the period around the event (from day -30 to day +30), and in the four years after the event (from +31 days onwards).