Supplemental Digital Content 2. Longitudinal analysis of inpatient days and ED presentations per year around cardinal events.

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|  | **Condition** | **Year -6** | **Year-4** | **Year -2** | **Year +2** | **Year +4** |
|  | **n** |  **Utilisation****(95% CI)** | **n** | **Utilisation (95% CI)** | **n** | **Utilisation (95% CI)** | **n** | **Utilisation (95% CI)** | **n** | **Utilisation (95% CI)** |
| **Inpatient****days per year** | *Heart failure* | 2100 | 4.92(4.34-5.56) | 6303 | 4.87(4.61-5.15) | 10399 | 6.80(6.54-7.06) | 3503 | 13.74(12.93-14.61) | 854 | 15.30(13.26-17.39) |
| *Type 2 Diabetes* | 2006 | 4.07(3.49-4.68) | 5435 | 4.46(4.19-4.72) | 8334 | 5.61(5.33-5.89) | 3534 | 9.86(9.16-10.58) | 862 | 15.59(13.60-17.79) |
| *COPD* | 1911 | 3.84(3.29-4.42) | 5225 | 4.87(4.61-5.13) | 8872 | 5.98(5.72-6.25) | 3726 | 11.69(10.99-12.42) | 1063 | 14.27(12.50-16.22) |
| *Cataract with diabetes* | 2296 | 2.02(1.69-2.37) | 5944 | 2.34(2.18-2.51) | 9175 | 3.42(3.23-3.63) | 4596 | 6.09(5.68-6.51) | 1223 | 7.09(5.93-8.30) |
| *Asthma* | 1750 | 0.81(0.59-1.04) | 5427 | 1.54(1.41-1.61) | 9775 | 1.90(1.77-2.03) | 6056 | 2.02(1.80-2.27) | 2035 | 1.67(1.25-2.14) |
| *Dialysis* | 197 | 6.55(4.35-9.17) | 551 | 4.40(3.58-5.30) | 888 | 6.52(5.76-7.37) | 361 | 93.55(86.36-100.69) | 77 | 87.12(70.25-103.99) |
| **ED presentations** **per year** | *Heart failure* | 2100 | 0.50(0.44-0.58 | 6303 | 0.53(0.51-0.56) | 10399 | 0.71(0.68-0.75) | 3503 | 1.44(1.32-1.59) | 854 | 1.40(1.19-1.68) |
| *Type 2 Diabetes* | 2006 | 0.49(0.42-0.56) | 5435 | 0.52(0.49-0.55) | 8334 | 0.67(0.64-0.70) | 3534 | 1.07(1.00-1.13) | 862 | 1.24(1.09-1.39) |
| *COPD* | 1911 | 0.54(0.46-0.63) | 5225 | 0.67(0.62-0.73) | 8872 | 0.81(0.75-0.87) | 3726 | 1.48(1.39-1.58) | 1063 | 1.38(1.22-1.53) |
| *Cataract with diabetes* | 2296 | 0.24(0.20-0.28) | 5944 | 0.28(0.26-0.30) | 9175 | 0.38(0.36-0.42) | 4596 | 0.62(0.59-0.65) | 1223 | 0.64(0.56-0.71) |
| *Asthma* | 1750 | 0.45(0.40-0.51) | 5427 | 0.56(0.53-0.59) | 9775 | 0.77(0.74-0.80) | 6056 | 0.97(0.92-1.01) | 2035 | 0.79(0.71-0.87) |
| *Dialysis* | 197 | 0.55(0.39-0.72) | 551 | 0.55(0.46-0.65) | 888 | 0.86(0.75-0.98) | 361 | 1.95(1.73-2.18) | 77 | 1.39(0.94-1.87) |

Shown are the values (mean and 95% confidence interval) of inpatient days per year and emergency department presentations per year at six years, four years, and two years prior to the cardinal event; and at two years and four years after the cardinal event. The number of cardinal events eligible for analysis at these time points is indicated by n.