What happens 96 hours before and after 999 see & treat calls within the first week of August 2022

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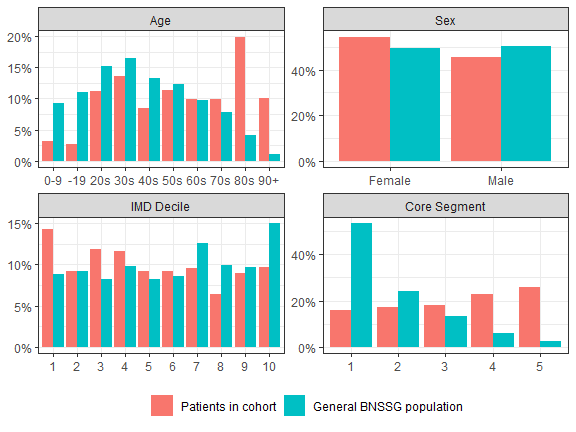
11 November 2022

## 1. Descriptive overview of the identified cohort

The cohort contains 668 instances for which an index event is recorded. Among these, there are 619 unique patients, meaning an average of 1.1 index events per patient.

The below figure contains attributes for the 639 instances (593 unique patients) that have relevant attribute data (taken from the closest month to the index event).

For context, the attributes of the general BNSSG population is also included, from the most recent month’s data.



## 2. Activity volumes before and after the index event

The tables below summarise the volumes of activity occurring before and after the index event, for the 668 instances in the cohort.

Summary of activity volumes BEFORE the index event

| Activity | Mean activity per instance | Instances with >0 activity | Mean activity per instance with >0 activity |
| --- | --- | --- | --- |
| 111 | 0.34 | 28.3% | 1.22 |
| 999 (all types) | 0.29 | 13% | 2.21 |
| A+E | 0.09 | 7.8% | 1.17 |
| GP | 0.65 | 36.1% | 1.81 |

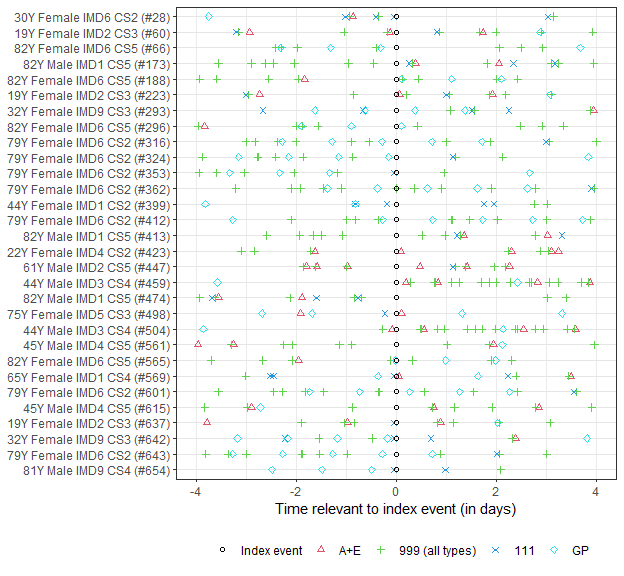
Summary of activity volumes AFTER the index event

| Activity | Mean activity per instance | Instances with >0 activity | Mean activity per instance with >0 activity |
| --- | --- | --- | --- |
| 111 | 0.09 | 7.5% | 1.16 |
| 999 (all types) | 0.36 | 17.5% | 2.04 |
| A+E | 0.27 | 22.5% | 1.21 |
| GP | 0.65 | 35.9% | 1.81 |

## 3. Activity theographs for a sample of the cohort

The below figure contains examples of theographs. Here, each row contains activity for a certain patient centred around the index event (including the unique *#instance\_id*).

Only the top 30 instances, by highest total volume of activity within the considered window, are included here (see the associated *theographs\_full.pdf* file for the full results).



## 4. Tallies of distinct activity profiles around the index event

Considered here are the various combinations of activity volume profiles around the index event, in terms of a tally of the number of instances which match the distinct activity volume profile. The particular order or timing of the activities is not a consideration.

Only the top 10 distinct activity profiles, by frequency, are included here (see the associated *tallies\_full.xlsx* file for the full results).

Tally of distinct activity volume profiles BEFORE the index event

| A+E | 999 (all types) | 111 | GP | Freq | Percent |
| --- | --- | --- | --- | --- | --- |
| 0 | 0 | 0 | 0 | 280 | 42% |
| 0 | 0 | 0 | 1 | 83 | 12% |
| 0 | 0 | 1 | 0 | 82 | 12% |
| 0 | 0 | 0 | 2 | 29 | 4% |
| 0 | 0 | 1 | 1 | 29 | 4% |
| 0 | 0 | 1 | 2 | 16 | 2% |
| 0 | 1 | 0 | 0 | 10 | 1% |
| 0 | 0 | 0 | 3 | 9 | 1% |
| 0 | 0 | 0 | 4 | 8 | 1% |
| 0 | 0 | 2 | 0 | 7 | 1% |

Tally of distinct activity volume profiles AFTER the index event

| A+E | 999 (all types) | 111 | GP | Freq | Percent |
| --- | --- | --- | --- | --- | --- |
| 0 | 0 | 0 | 0 | 294 | 44% |
| 0 | 0 | 0 | 1 | 97 | 15% |
| 1 | 0 | 0 | 0 | 52 | 8% |
| 0 | 0 | 0 | 2 | 37 | 6% |
| 1 | 1 | 0 | 0 | 20 | 3% |
| 0 | 0 | 0 | 3 | 17 | 3% |
| 0 | 1 | 0 | 0 | 16 | 2% |
| 1 | 0 | 0 | 1 | 12 | 2% |
| 1 | 0 | 0 | 2 | 7 | 1% |
| 1 | 1 | 1 | 0 | 7 | 1% |

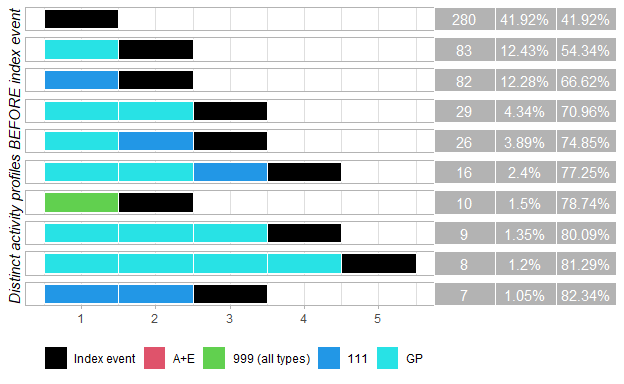
Tally of distinct activity volume profiles both BEFORE (B) and AFTER (A) the index event

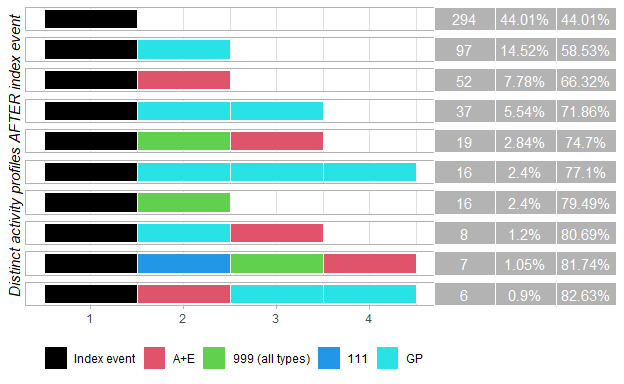
| B:111 | B:999 (all types) | B:A+E | B:GP | A:111 | A:999 (all types) | A:A+E | A:GP | Freq | Percent |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 151 | 23% |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 38 | 6% |
| 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 38 | 6% |
| 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 37 | 6% |
| 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 23 | 3% |
| 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 13 | 2% |
| 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 12 | 2% |
| 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 12 | 2% |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 11 | 2% |
| 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 11 | 2% |

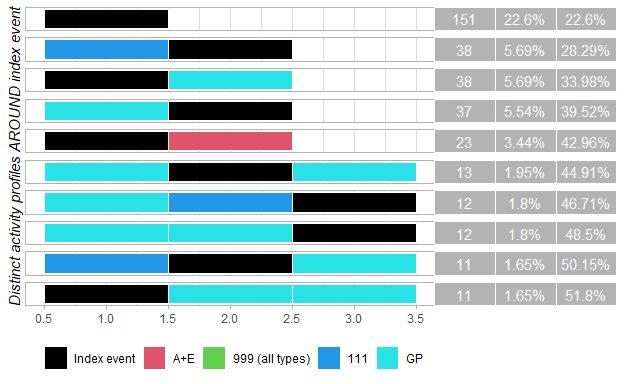
## 5. Trace-plots displaying activity order around the index event

Building on the tallies, trace-plots can be used to illustrate the particular order of activities. The three columns show the frequency and percentage (which should equate to the tallies in the previous section) and the cumulative percentage

Only the top 10 distinct activity profiles are included here (see the associated *trace\_before\_full.pdf*, *trace\_after\_full.pdf* and *trace\_both\_full.pdf* files for the full results).







1. *Created using an R script developed by ICB Modelling and Analytics. Suggestions, comments and bug reports to* [*richard.wood16@nhs.net*](mailto:richard.wood16@nhs.net)*.* [↑](#footnote-ref-21)