

**Supplementary Table S1.** Distribution of the extracted shared healthcare service-use trajectories for the case (BCS) and control (NBC) group, according to their length. The latter is defined by the total number of distinct common visited healthcare services, reflected in a trajectory.

<b>Length (L)</b>	<b>Case (BCS)</b>	<b>Control (NBC)</b>
2	75	85
3	300	413
4	1,076	1,309
5	2,011	2,677
6	1,518	2,460
7	159	500
8	21	10

**Supplementary Table S2.** Ten most frequent shared care trajectories, for all identified lengths  $L = 2-7$  (number of common distinct services), corresponding to the BCS (case) group. The total number of patients (*#pat*) that share each trajectory is also reported. The numerical visit codes correspond to the following services: 1: Family doctor, 2: Nursing Primary Care, 3: Other Primary Care, 4: Emergency Primary Care, 5: Outpatient Care, 6: Hospital Emergency, 7: Hospital Admission, 8: Laboratory, 9: Radiology, 10: Rehabilitation, 11: Psychology, according to Table 1.

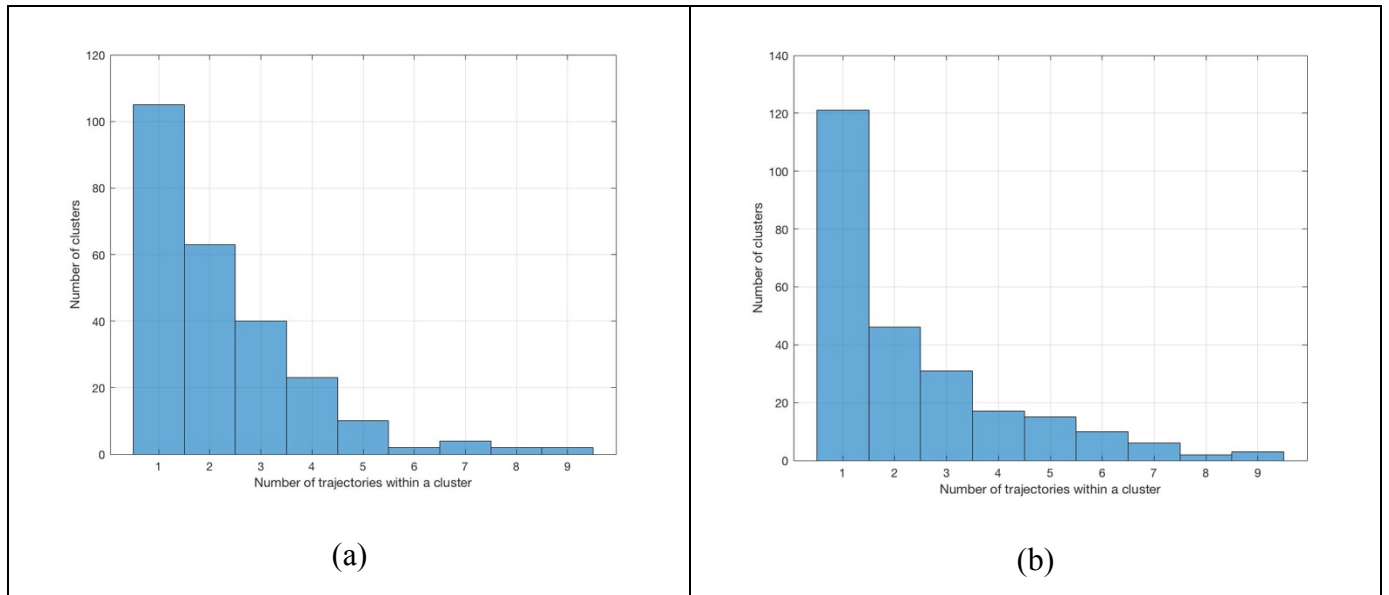
<i>L</i> = 2			<i>L</i> = 3				<i>L</i> = 4					
<i>s</i> <sub>1</sub>	<i>s</i> <sub>2</sub>	<i>#pat</i>	<i>s</i> <sub>1</sub>	<i>s</i> <sub>2</sub>	<i>s</i> <sub>3</sub>	<i>#pat</i>	<i>s</i> <sub>1</sub>	<i>s</i> <sub>2</sub>	<i>s</i> <sub>3</sub>	<i>s</i> <sub>4</sub>	<i>#pat</i>	
1	2	3,803	1	5	6	1,339	1	5	2	6	514	
1	5	2,997	1	5	2	1,316	1	5	9	6	500	
5	2	2,670	1	2	6	1,311	1	5	9	8	417	
1	4	2,538	1	2	4	1,246	1	5	2	4	412	
1	6	2,491	1	5	4	1,180	1	5	6	7	405	
1	8	2,203	1	5	7	1,091	1	5	2	7	395	
2	4	2,150	1	5	8	1,024	1	9	6	7	366	
1	9	2,099	1	2	7	1,016	2	1	5	6	357	
1	7	1,993	5	1	2	929	1	5	4	6	356	
2	1	1,905	1	5	9	926	1	5	2	3	356	
<i>L</i> = 5						<i>L</i> = 6						
<i>s</i> <sub>1</sub>	<i>s</i> <sub>2</sub>	<i>s</i> <sub>3</sub>	<i>s</i> <sub>4</sub>	<i>s</i> <sub>5</sub>	<i>#pat</i>	<i>s</i> <sub>1</sub>	<i>s</i> <sub>2</sub>	<i>s</i> <sub>3</sub>	<i>s</i> <sub>4</sub>	<i>s</i> <sub>5</sub>	<i>s</i> <sub>6</sub>	<i>#pat</i>
1	5	9	6	7	168	2	1	5	9	6	7	46
1	5	2	6	7	134	1	2	5	9	6	7	41
1	5	9	8	6	131	1	5	9	8	6	7	40
1	5	9	8	7	126	1	5	9	2	8	6	37
2	1	5	9	6	123	1	5	9	6	4	7	35
1	5	2	4	6	122	1	5	9	6	8	7	34
1	2	9	6	7	121	2	1	8	9	6	7	34
1	5	9	2	8	120	2	1	5	9	8	7	34
1	5	2	7	6	119	1	2	8	9	6	7	32
1	5	9	6	4	117	1	5	2	9	6	7	32
<i>L</i> = 7												
<i>s</i> <sub>1</sub>	<i>s</i> <sub>2</sub>	<i>s</i> <sub>3</sub>	<i>s</i> <sub>4</sub>	<i>s</i> <sub>5</sub>	<i>s</i> <sub>6</sub>	<i>s</i> <sub>7</sub>	<i>#pat</i>					
1	5	2	9	6	4	7	12					
1	2	5	9	6	4	7	10					
1	5	9	2	8	7	6	10					
2	1	5	9	6	8	7	10					
2	1	5	9	8	6	7	10					
1	2	5	9	8	6	7	9					
2	1	9	5	8	6	7	9					
2	1	8	5	9	6	7	9					
2	1	5	9	6	7	3	8					
1	5	9	2	8	6	7	8					
1	5	2	9	6	4	7	12					

**Supplementary Table S3.** Ten most frequent shared care trajectories, for lengths  $L = 2$ -7 (number of common distinct services), corresponding to the NBC (control) group. The total number of patients ( $\#pat$ ) that share each trajectory is also reported. The numerical visit codes correspond to the following services: 1: Family doctor, 2: Nursing Primary Care, 3: Other Primary Care, 4: Emergency Primary Care, 5: Outpatient Care, 6: Hospital Emergency, 7: Hospital Admission, 8: Laboratory, 9: Radiology, 10: Rehabilitation, 11: Psychology, according to Table 1.

$L = 2$			$L = 3$				$L = 4$					
$s_1$	$s_2$	$\#pat$	$s_1$	$s_2$	$s_3$	$\#pat$	$s_1$	$s_2$	$s_3$	$s_4$	$\#pat$	
1	2	7,618	1	2	4	2,482	1	8	9	6	1,045	
1	5	5,830	1	5	6	2,299	1	5	9	6	803	
1	4	5,043	1	2	6	2,233	1	2	9	6	781	
1	8	4,610	1	9	6	2,054	2	1	5	6	693	
1	6	4,249	1	2	5	2,033	1	5	2	6	692	
2	4	4,210	1	8	9	1,999	1	2	5	6	678	
2	5	4,065	1	5	4	1,978	2	1	9	6	633	
1	9	3,862	1	5	2	1,869	1	2	8	9	587	
2	1	3,650	1	8	6	1,754	1	2	5	4	585	
1	3	3,440	1	2	3	1,712	1	9	6	7	585	
$L = 5$						$L = 6$						
$s_1$	$s_2$	$s_3$	$s_4$	$s_5$	$\#pat$	$s_1$	$s_2$	$s_3$	$s_4$	$s_5$	$s_6$	$\#pat$
2	1	8	9	6	321	2	1	8	9	6	7	94
1	2	8	9	6	309	1	2	8	9	6	7	80
1	8	9	6	7	272	2	1	5	8	9	6	76
1	8	5	9	6	265	2	1	5	9	6	7	71
1	5	8	9	6	235	1	2	8	5	9	6	70
2	1	5	9	6	231	1	2	8	9	6	4	70
1	8	9	6	4	231	2	1	8	9	6	4	69
1	8	2	9	6	221	2	1	8	5	9	6	68
1	2	9	6	7	218	1	2	8	9	6	3	66
1	5	9	6	7	209	1	5	8	9	6	3	66
$L = 7$												
$s_1$	$s_2$	$s_3$	$s_4$	$s_5$	$s_6$	$s_7$	$\#pat$					
2	1	5	8	9	6	7	26					
2	1	5	8	9	6	3	20					
2	1	5	8	6	7	3	20					
1	2	8	9	6	4	7	19					
2	1	5	8	9	6	4	18					
2	1	5	9	6	7	3	18					
2	1	5	8	9	7	3	17					
1	2	8	9	7	6	3	17					
2	1	8	9	6	4	7	17					
1	5	2	8	9	6	3	16					
2	1	5	8	9	6	7	26					

**Supplementary Table S4.** Example of an extracted cluster composed of seven individual care trajectories, after applying the DTW-based unsupervised clustering algorithm to the BCS group. The total number of patients (*#pat*) that share each trajectory is also reported. The numerical visit codes correspond to the following services: 1: Family doctor, 2: Nursing Primary Care, 5: Outpatient Care, 6: Hospital Emergency, 7: Hospital Admission, 8: Laboratory, 9: Radiology, according to Table 1. The basic pattern reflected in the cluster is shown in bold (**5 → 9 → 6**). The last trajectory (in grey) was finally filtered out as it did not fulfil the requirement of at least 60 individuals per shared trajectory.

<b>Shared care trajectory</b>	<i>#pat</i>
<b>5 → 9 → 6</b>	598
1 → 5 → 9 → 6	803
8 → 5 → 9 → 6	315
5 → 9 → 6 → 7	171
1 → 2 → 5 → 9 → 6	202
1 → 5 → 9 → 6 → 7	209
1 → 5 → 9 → 8 → 6 → 7	40



**Supplementary Figure S1.** Distribution of the number of extracted clusters based on the number of individual shared service-use trajectories of which they are composed, for the (a) case (BCS) and (b) control (NBC (control) group. A minimum of (a) 60 and (b) 120 individuals (corresponding to ~1% of the total number of patients in each group respectively) was required to share each trajectory in order to be assigned to a cluster.