



Patients Over 75

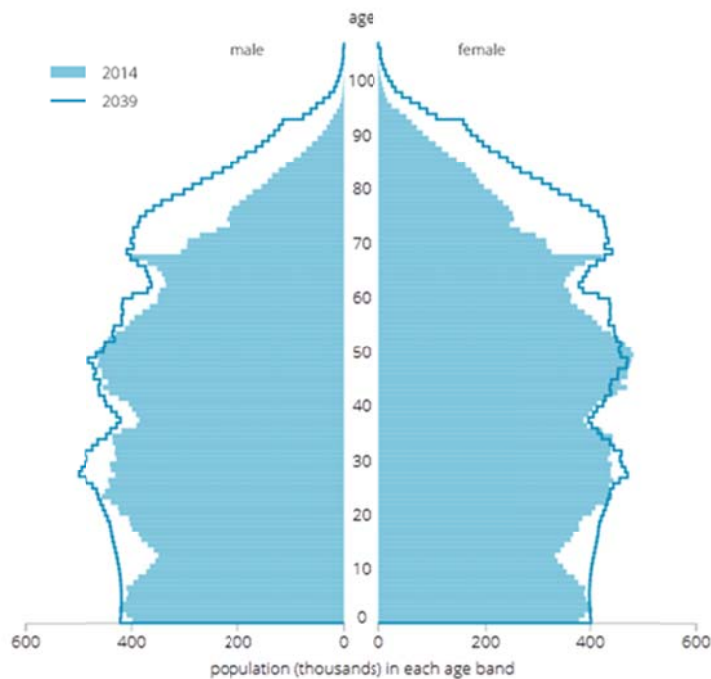
Demand for Trust Services

Demand

Population Growth

The increase in the older population has been cited as an existing and increasing pressure on the NHS. UK population projections emphasise the growing older population (see Figure 1) and the change in the distribution across ages¹.

Figure 1. UK Population Projection by Age (to 2039)



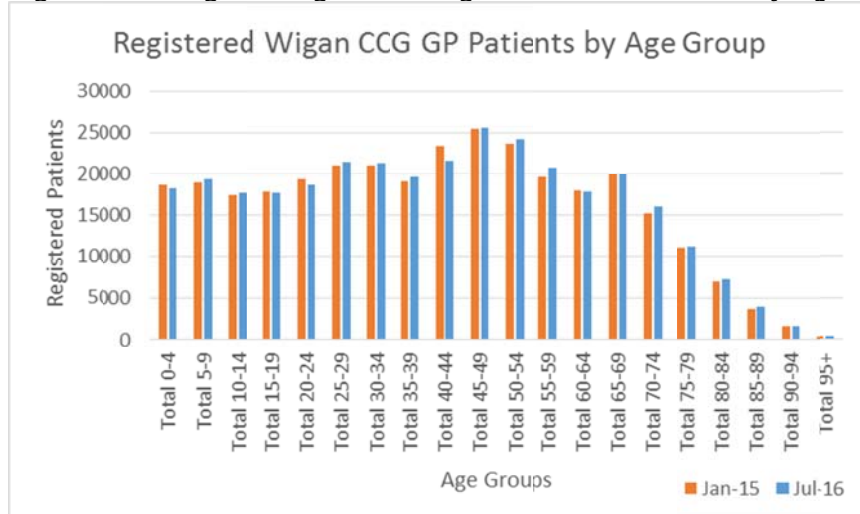
If the Wigan population increases in line with this then the overall population of the Borough will pass 367,000 by 2039, an increase of over 13%.

An increase in older patients has already been witnessed in the Borough. Overall, the number of patients registered with a Wigan CCG GP Practice rose by 2,147 between January 2015 and July 2016. During this time the number of registered patients aged 75+ rose by 649 (2.7%).²

¹ Source: Public Health England/Dr Foster

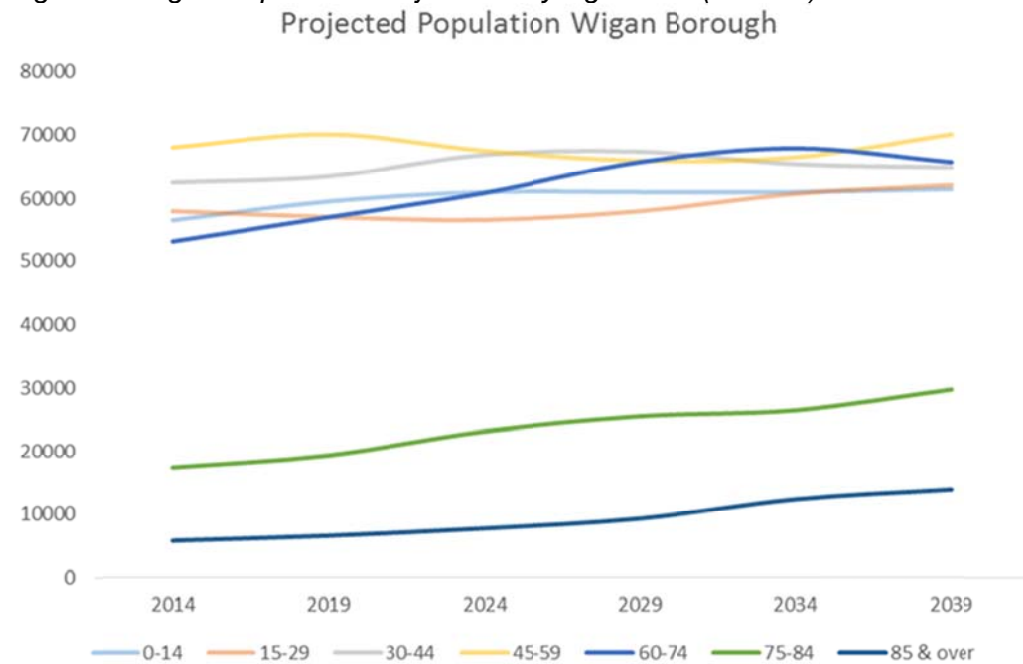
² Source: NHS GP Practice Data

Figure 2. Change in Registered Wigan CCG GP Patients by Age Group



Using the UK projections to determine the change in the Wigan population highlights the disproportionate increase in older people. Figure 3 describes how this change might be distributed across the age bands, with a steady increase in those people aged 75+ far outstripping the overall rate of increase.

Figure 3. Wigan Population Projections by Age Band (to 2039)



To maintain the current bed to population ratio in light of these increases, and not taking into account the change in the population split by age group, would require 530 general and acute beds in the Trust by 2039, i.e. an additional 66 beds, assuming no other changes in service provision take place.

However, as stated, this doesn't account for the increase in older people that is likely to occur over the same period. Those same population predictions identify that the bulk of that increase is likely to be witnessed in those people aged 75 and over. The predictions discussed (that population is likely to exceed 367,000 in the Borough by 2039) contain a huge increase in the proportion of patients in the older age categories. People aged 75 and

over currently account for around 7% of the population. By 2039 that is predicted to rise to almost 12%. (See Table 1 below.)

Given that this element of the population account for 43% of all hospital bed days, the potential impact of growth among this cohort cannot be understated. In 2014 they accounted for 57,179 bed days (156 beds per day). If we assume admission ratios remain constant, the same cohort would occupy 113,587 bed days (311 beds per day) by 2039. That means double the number of beds currently required. (See Table 2 below.)

That may seem like a long way into the future, but even by 2019 there is the potential for the cohort to utilise 63,948 bed days (175 beds per day), all other things remaining equal. That suggests a requirement for 19 additional beds in a little over two years' time.³

Table 1: Population Projections (2014-2039)

	Population Numbers (projection)					
	2014	2019	2024	2029	2034	2039
0-14	56420	59389	60874	60874	60874	61369
15-29	57850	56932	56473	57850	60605	61982
30-44	62381	63363	66802	67293	65328	64837
45-59	67970	70061	67447	65879	66401	70061
60-74	53065	56894	60724	65647	67836	65647
75-84	17460	19348	23123	25482	26426	29729
85 & over	5829	6606	7772	9326	12435	13990
Total	320975	332594	343214	352352	359905	367616

Table 2: Bed Days Projections (2014-2039)

Bed Days	Bed Days (Projection)					
	2014	2019	2024	2029	2034	2039
0-14	10863	11435	11721	11721	11721	11816
15-29	9024	8881	8809	9024	9454	9669
30-44	10745	10914	11506	11591	11253	11168
45-59	14400	14843	14289	13957	14068	14843
60-74	30203	32383	34562	37365	38610	37365
75-84	33907	37573	44904	49486	51319	57734
85 & over	23272	26375	31029	37235	49647	55853
Total Bed Days	132414	142403	156821	170378	186070	198446
Bed Days per Day	363	390	430	467	510	544

Attendances & Admissions

The Trust has already witnessed an increase in attendances and admissions for patients aged 75 and over. 2016 saw a 9% increase in A&E attendances from this cohort and a 10% rise in admissions as a result of an A&E attendance.

³ Source: Dr Foster/Office for National Statistics

Figure 4. A&E Attendances Aged 75 and Over

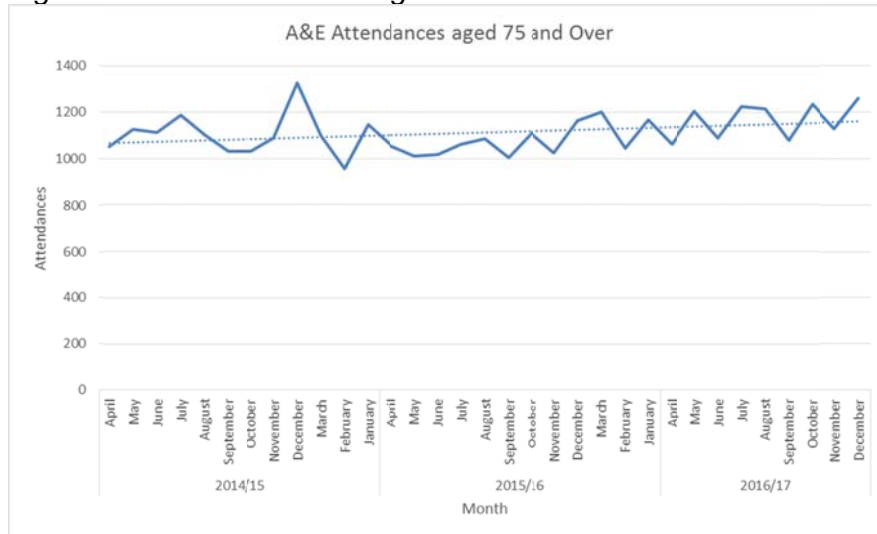
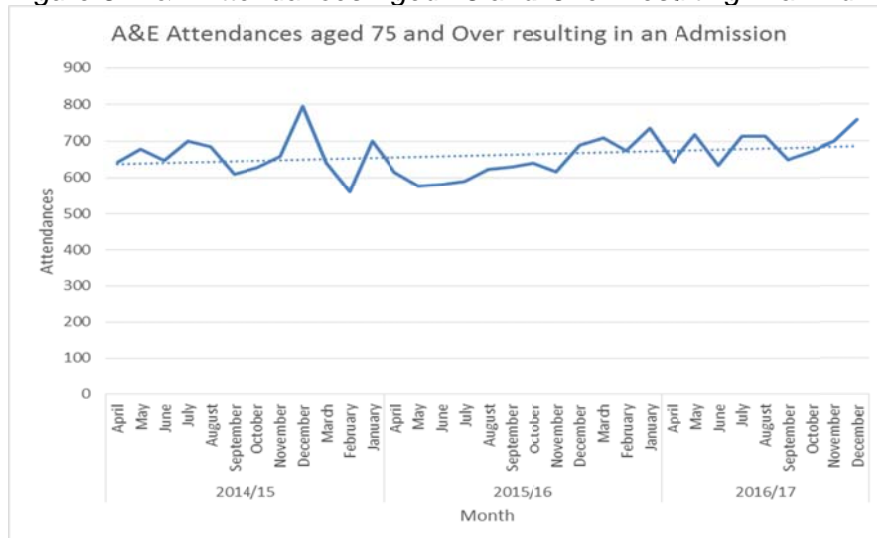


Figure 5. A&E Attendances Aged 75 and Over Resulting in an Admission



Patients aged 75 and over are also being admitted at a rate above expected. Dr Foster produces a standardised admission ratio (SAR) calculation which compares expected admission levels with those observed. A SAR of 100 would indicate a level of admissions in line with expectations. In general, WWL fares well for non-elective admissions using the SAR, with the overall figure at 98.4⁴. The figure remains below 100 for all age categories up to and including 45-64. The SAR for 65-74 year olds rising just above expected (101.6) but becomes statistically significantly high for the 75-84 and 85+ categories (109.3 and 112.7, respectively).

Patients over the age of 75 are also more likely to breach the four hour A&E threshold, with almost 1 in 4 waiting longer than that. This is particularly true of patients in that age group attending later in the day, largely due to the fact that these patients are more likely to be admitted as it becomes increasingly difficult to discharge them safely to their normal place of residence later in the day.

⁴ Source: Dr Foster (Nov-15 to Oct-16)

Figure 6. A&E Attendances Heat Map – Aged 75 and Over

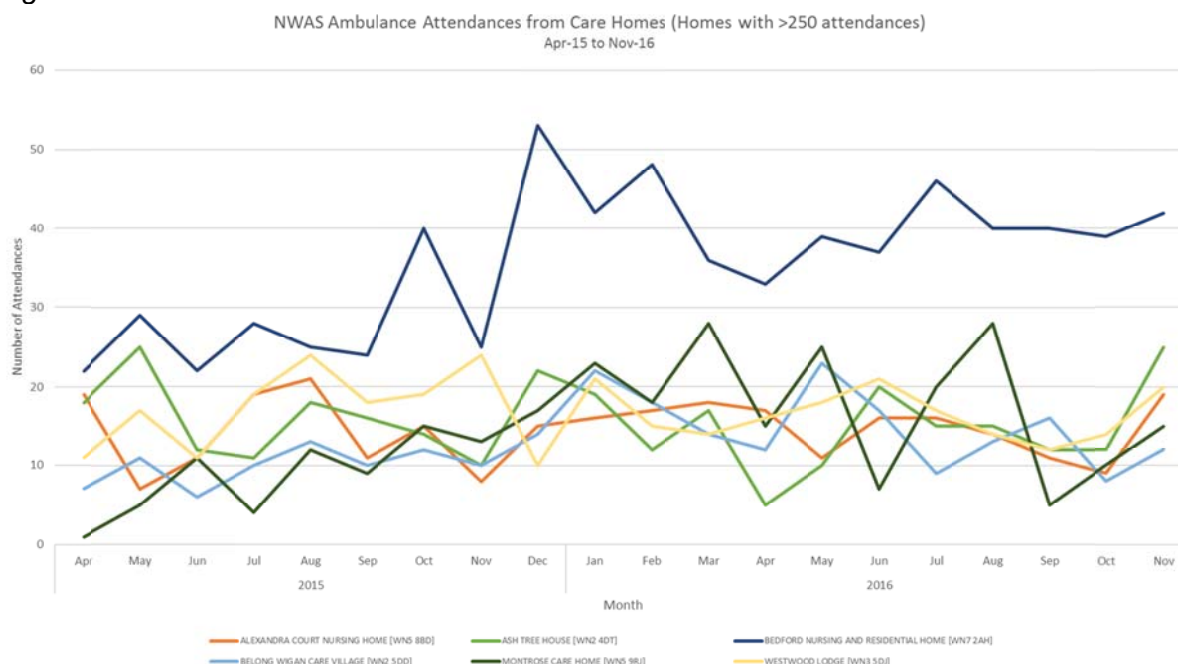
Attendances - 75 and over	2015/16 Apr to Nov								2016/17 Apr to Nov							
	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Grand Total	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Grand Total
00:00 - 00:59	20	21	18	29	24	20	20	152	20	38	28	26	26	29	22	189
01:00 - 01:59	16	21	19	17	21	17	16	127	27	18	25	31	24	17	12	154
02:00 - 02:59	16	16	22	21	16	23	16	130	28	19	20	22	16	19	15	139
03:00 - 03:59	19	24	23	14	17	20	26	143	25	28	24	22	18	25	23	165
04:00 - 04:59	21	14	9	11	17	19	27	118	23	26	23	15	16	22	21	146
05:00 - 05:59	17	23	15	19	27	18	16	135	29	23	20	20	19	17	23	151
06:00 - 06:59	14	19	25	19	25	19	19	140	15	14	26	23	22	29	26	155
07:00 - 07:59	26	12	13	17	21	19	23	131	19	19	19	19	19	29	18	142
08:00 - 08:59	41	40	30	30	46	40	32	259	39	38	32	28	49	50	46	282
09:00 - 09:59	77	59	48	74	79	67	62	466	83	59	60	64	59	64	66	455
10:00 - 10:59	103	91	98	93	89	91	80	645	87	90	83	78	96	75	91	600
11:00 - 11:59	91	86	86	63	89	94	83	592	107	95	101	97	76	98	98	672
12:00 - 12:59	96	76	73	55	84	82	88	554	93	90	79	101	92	95	97	647
13:00 - 13:59	71	68	93	79	80	69	92	552	95	87	91	92	73	84	73	595
14:00 - 14:59	92	76	78	70	73	63	71	523	99	98	102	95	76	83	71	624
15:00 - 15:59	81	86	88	92	88	77	70	582	102	87	87	89	98	90	82	635
16:00 - 16:59	66	69	66	77	82	77	80	517	97	90	82	76	59	89	93	586
17:00 - 17:59	67	68	72	84	78	66	80	515	90	93	90	74	88	76	69	580
18:00 - 18:59	70	75	52	66	76	55	62	456	83	69	63	76	93	69	80	533
19:00 - 19:59	50	60	68	58	69	62	63	430	76	68	70	73	67	60	49	463
20:00 - 20:59	64	63	69	61	61	59	63	440	87	68	56	55	66	72	59	463
21:00 - 21:59	49	40	51	39	53	38	37	307	52	57	51	49	53	51	47	360
22:00 - 22:59	42	31	24	42	39	34	33	245	42	35	37	45	44	30	41	274
23:00 - 23:59	32	32	34	33	35	33	32	231	34	39	27	36	34	40	27	237
Grand Total	1241	1170	1174	1163	1289	1162	1191	8390	1452	1348	1296	1306	1283	1313	1249	9247

Figure 7. A&E Attendances Waiting over 4 Hours – Aged 75 and Over

Breaches - 75 and over	2015/16 Apr to Nov								2016/17 Apr to Nov							
	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Grand Total	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Grand Total
00:00 - 00:59	5	6	1			3	1	16	3	19	14	9	13	2	5	65
01:00 - 01:59	1	5	1	2			2	11	6	10	10	8	6	5	3	48
02:00 - 02:59		3	3		1	1		8	10	5	7	7	5	5	2	41
03:00 - 03:59	4	1	1	3	1		2	12	9	15	11	7	6	5	9	62
04:00 - 04:59	3	4	2	2	4	1	2	18	6	12	9	5	5	3	13	53
05:00 - 05:59	1	5	1	1	4	4	1	17	5	11	5	7	8	3	9	48
06:00 - 06:59	2	4	5	2	1	4	2	20	6	6	8	8	4	4	9	45
07:00 - 07:59	3		6	3	1	2		15	8	6	4	6	3	3	5	35
08:00 - 08:59	3	1	2	3	4	1	1	15	6	7	3	3	7	13	12	51
09:00 - 09:59	6	6	5	2	6	3	3	31	12	16	9	8	12	11	13	81
10:00 - 10:59	11	14	10	13	6	4	2	60	15	15	20	19	12	15	15	111
11:00 - 11:59	5	10	10	6	7	6	3	47	22	21	25	26	9	10	19	132
12:00 - 12:59	8	5	5	2	11	3	7	41	21	23	19	11	7	10	19	110
13:00 - 13:59	4	7	8	6	10	4	3	42	25	14	22	18	5	9	6	99
14:00 - 14:59	7	6	5	3	13	4	2	40	22	19	32	19	15	8	5	120
15:00 - 15:59	6	8	7	10	10	2	5	48	35	20	20	12	13	9	13	122
16:00 - 16:59	9	4	2	7	9	5	7	43	29	26	26	15	12	11	13	132
17:00 - 17:59	7	8	10	5	10	4	8	52	31	34	32	8	17	9	8	139
18:00 - 18:59	5	3	2	2	5	5	3	25	35	18	14	22	19	7	12	127
19:00 - 19:59	4	5	1	4	6	2	4	26	30	10	22	14	17	7	10	110
20:00 - 20:59	6	6	4	5	4	3	5	33	48	24	17	16	23	19	15	162
21:00 - 21:59	10	4	2		3	1	6	26	20	19	13	9	6	10	5	82
22:00 - 22:59	12	3	3	1	2	5	3	29	20	12	11	12	8	7	11	81
23:00 - 23:59	4	2	2	1	2	3	3	17	13	9	12	9	12	10	7	72
Grand Total	126	120	98	83	120	70	75	692	437	371	365	278	244	195	238	2128

Further support comes from data from NWS, showing that demand from Nursing Homes/Care Homes is high. The six homes providing the highest demand account for around 30% of all NWS attendances at Nursing Homes/Care Homes. In particular, there was a marked increase in demand from Bedford Nursing & Residential Home from December 2015 onwards.

Figure 8. NWS Ambulance Attendances from Care Homes



There are 53 care homes throughout the Borough offering a mixture of mainstream residential, mainstream nursing, EMI residential and EMI nursing and Respite. In total they provide 2,063 beds.

In addition, there are 50 IMC beds (at Alex Court and Richmond House) and 30 community step down beds (Bedford House and Westwood Lodge).

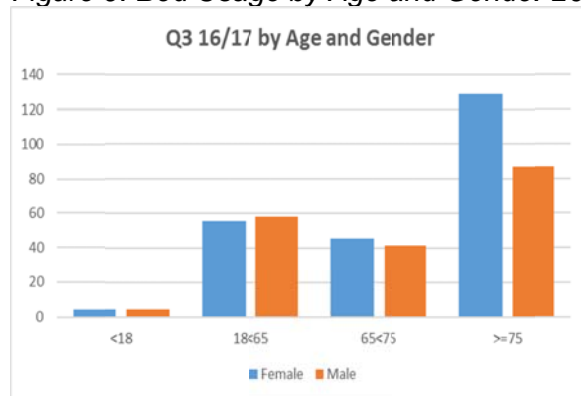
Bed Usage

Table 1 shows that patients aged 75 and over occupied more than half of RAEI non-elective beds during 2016/17. This has increased by 12 beds between Q1 16/17 (204 beds) and Q3 16/17 (216 beds). Figure 9 shows that while other age categories are evenly split by gender, those over 75 require approximately 50% more female beds.

Table 2. Bed Usage by Age Group 2016/17 (Q1/Q2/Q3)

Non Electives - By Age	16/17 Q1			16/17 Q2			16/17 Q3		
	Female	Male	Total	Female	Male	Total	Female	Male	Total
<18	4	4	7	3	4	8	4	4	9
18<65	57	52	109	58	53	111	56	58	114
65<75	44	40	84	42	46	88	46	41	87
>=75	126	78	204	123	83	206	129	87	216
Grand Total	231	174	405	227	186	413	235	191	425

Figure 9. Bed Usage by Age and Gender 2016/17 (Q3)



Mortality

The Office for National Statistics has produced analysis which shows that the large rise in deaths witnessed in England and Wales in 2015 (the largest number of deaths since 2003) was a result of an increase in dementia and Alzheimer's related deaths and respiratory diseases among older people. It calculated that 86% of the extra deaths occurred in the over 75s.⁵

It is possible that this affects Wigan to a greater degree than other areas. We know from GP Practice population data that Wigan has proportionally more registered patients aged 75+ than Salford – just over 6% of Salford's population fall into that age category compared to 7.5% of Wigan's. In terms of pure numbers, that equates to over 8,000 additional patients, or 1.5 times the volume in Salford (against an overall population differential of 1.23:1).

⁵ Source: Office for National Statistics

<https://www.ons.gov.uk/news/news/spikeinnumberofdeathsin2015drivenbyincreasedmortalityinover75s>