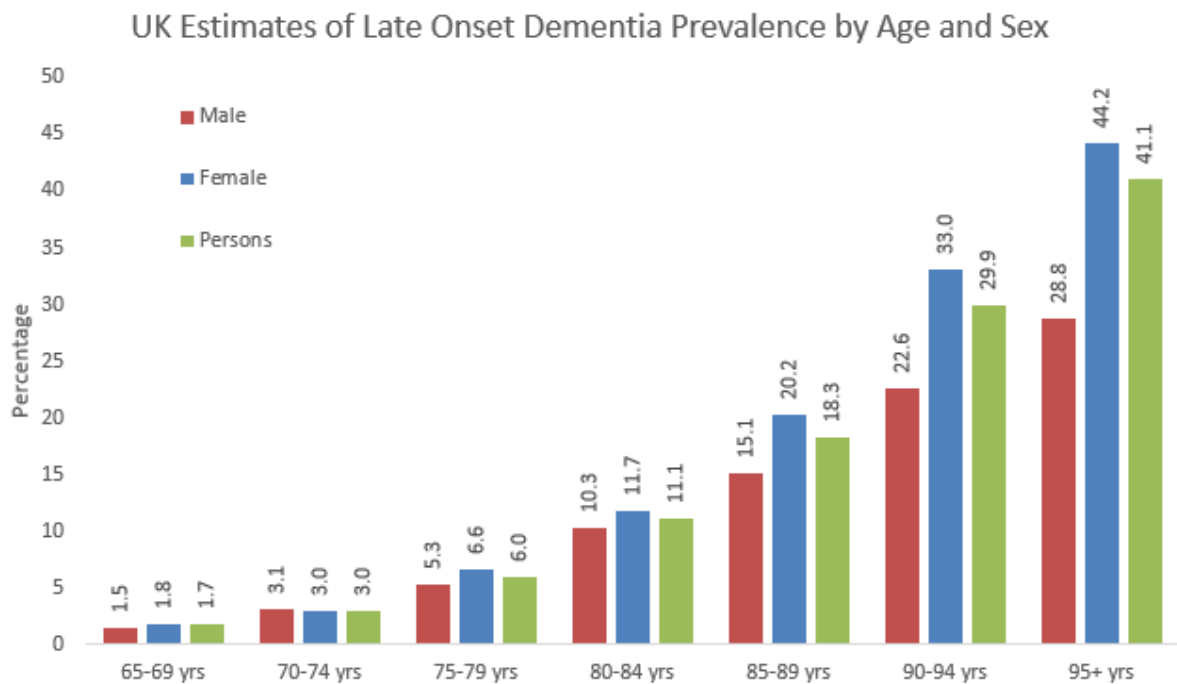


Data to Support the Derbyshire Dementia Well Pathway

Estimated Population Prevalence of Late Onset Dementia (65+ years)

The Dementia UK: Update report (Alzheimer's Society, 2014) estimated that the mean age standardised prevalence of late onset dementia in the UK was 7.1%. Prevalence is higher in females, and increases with age, rising from 1.7% in 65-69 year olds to 41.1% in those aged over 95 years (Figure 1).

Figure 1



Source: Alzheimer's Society, 2014

The age-sex specific prevalence estimates have been applied to the Derbyshire County and Derby City population projections to estimate the expected number of people living with late onset dementia over the next 15 years (Table 2). It should be noted that population projections by age band are only available to 90+ years, whereas the Dementia UK report splits out 90-94 years and 95+ years. Therefore, the prevalence for the 90-94 years has been applied to the 90+ population age group. Due to the small population numbers in the 95+ age group, this should not result in any large discrepancies.

Based on population change alone, the estimated number of people in Derbyshire County living with dementia rises from 11,000 to 16,000 by 2031. In Derby City, the number increases from 3,000 to 4,000, bringing the total across the footprint to around 20,000 people.

Table 1 - Estimated number of people with Late Onset Dementia

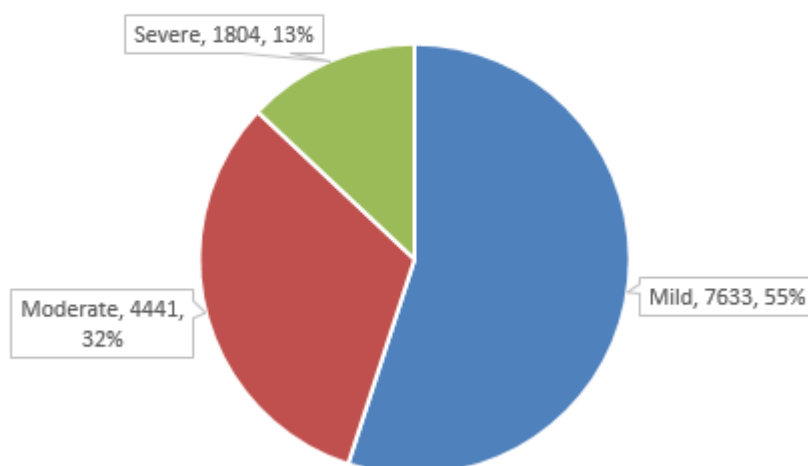
Age Band	Derbyshire County Projected Population with Late Onset Dementia				Derby City Projected Population with Late Onset Dementia			
	2016	2021	2026	2031	2016	2021	2026	2031
65-69	873	788	873	1003	197	186	211	246
70-74	1279	1509	1373	1529	291	338	321	365
75-79	1774	2235	2654	2437	452	511	599	574
80-84	2364	2644	3384	4060	678	683	790	938
85-89	2342	2567	2951	3866	722	758	790	944
90+	2240	2331	2644	3180	665	751	844	950
Total 65+	10872	12074	13879	16075	3006	3226	3554	4016

Severity of Condition

It is estimated that 55% of people living with dementia will have a mild condition, 32% will be moderately affected and 13% will have severe dementia. Based on population change alone, the total number of people aged 65+ years that could be living with severe dementia across the Derbyshire footprint increases from 1,800 to 2,600 by 2031 (Figure 2, Table 1).

Figure 2

Estimated number of people with late onset dementia by severity of condition, 2016, Derbyshire (County & City)



Source: Alzheimer's Society, 2014

Table 2 - Estimated People with Late Onset Dementia by Severity

County & City	2016	2021	2026	2031
Mild	7633	8415	9588	11050
Moderate	4441	4896	5579	6429
Severe	1804	1989	2266	2612
County	2016	2021	2026	2031
Mild	5980	6641	7633	8841
Moderate	3479	3864	4441	5144

Severe	1413	1570	1804	2090
City	2016	2021	2026	2031
Mild	1653	1774	1955	2209
Moderate	962	1032	1137	1285
Severe	391	419	462	522

Estimated Population Prevalence of Working Age Dementia (under 65 years)

Working age dementia (also known as young or early onset dementia) refers to dementia that is diagnosed before the age of 65. People diagnosed with dementia under the age of 65 have different needs and commitments; they often follow a different clinical pathway, and may also need different forms of support, compared to people diagnosed with dementia over the age of 65 (Public Health England, 2017)

The percentages of the UK population with early onset dementia have been applied to ONS population projection figures for Derbyshire County and Derby City (Table 3).

Table 3 - Estimated number of people with Working Age Dementia

Age Band	Derbyshire County Projected Population with Early Onset Dementia				Derby City Projected Population with Early Onset Dementia			
	2016	2021	2026	2031	2016	2021	2026	2031
30-34	4	4	4	4	2	2	2	2
35-39	3	4	4	4	1	1	1	1
40-44	7	6	7	7	2	2	2	2
45-49	18	15	14	15	5	5	5	5
50-54	37	37	31	29	10	10	9	9
55-59	76	88	88	74	20	23	23	20
60-64	442	488	559	560	107	121	140	140
Total <65	588	642	707	693	147	163	182	179

Prevalence estimates suggest that there were 147 adults (30-64 years) in Derby and 588 adults (30-64 years) in Derbyshire with working age dementia in 2016. This is projected to increase to 179 and 693 in Derby and Derbyshire, respectively, by 2031, assuming estimates of prevalence remain consistent between now and 2031.

The above data, however, does not come without a caveat. The percentages that were applied to the local population projections have been calculated based on information obtained from the Alzheimer's Society (2014) report at a point in time, and therefore does not account for any year on year growth in prevalence of the disease. For example, Alzheimer's Society (2014) comment that in 2007, 2% of people living with dementia were accounted for by people with working age dementia, whereas in 2014 it had grown to 5.2%. Equally, the Alzheimer's Society report further acknowledges there may be some underrepresentation of the population with early-onset dementia using their methodology and through a lack of accessible data.

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