



Multimorbidity and Frailty JSNA Chapter



crease in older people and multimorbidity over next 10yrs

ojected population change of older people in Leicestershire (2016-2029)

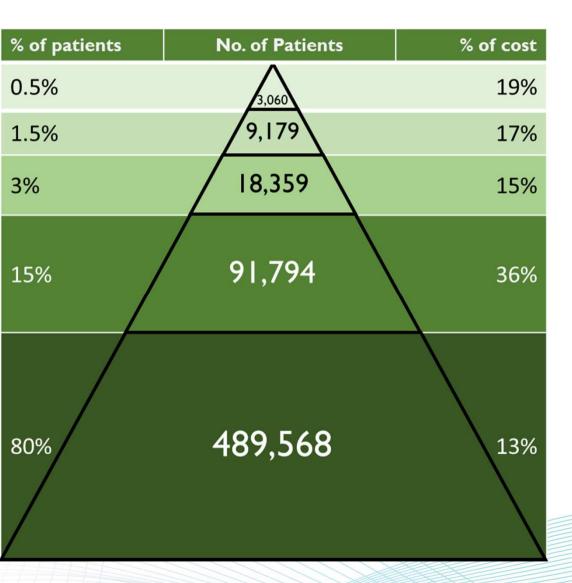
	2016	2029	change					
years+	154,100	195,600	+ 41,500	+ 26.9%				
years+	17,700	26,000	+ 8,300	+46.9%				

otential increase in multimorbidity of older people (2019-2029)

	2019	2029	change
yrs+ and multimorbid	14,317	22,660	+ 8,343
yrs+ and 8+ LTCs	3,747	5,931	+ 2,184

N

ne Need for Health Care Varies — All Secondary Care Costs

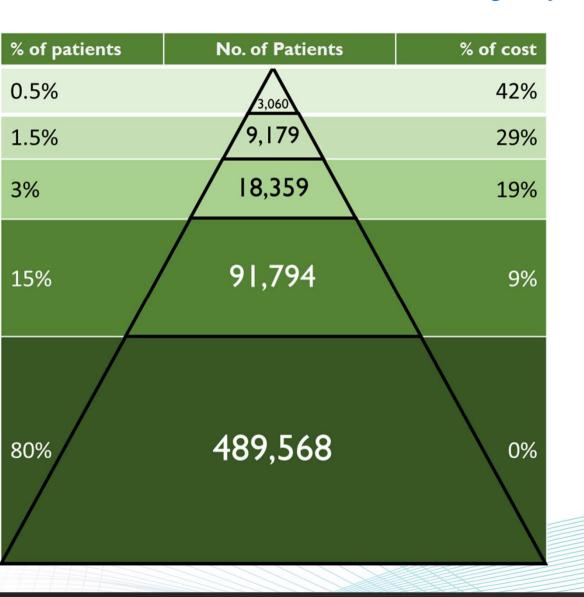


Just 0.5% of the population (3,250 people) in Leicestershire accounted for around a fifth (19%) of all secondary costs in the previous year

Around 5% of the population accounts for around half (51%) of all secondary care costs over a year.

At this time, no costs for pharmacy or primary care costs are included in the Leicestershire data but this could be added for later iterations of the reports

e Need for Health Care Varies — Emergency Admission Costs



A similar, but more pronounced, pattern is evident for emergency admission costs:

Here just 0.5% of the population of Leicestershire accounted for over two-fifths (43%) of emergency admission costs in the previous year

Overall, around 20% of the population of EL CCG accounts for all the emergency admission costs over the previous year, and 80% of the population incur zero emergency admission costs.

gh risk groups are not homogenous

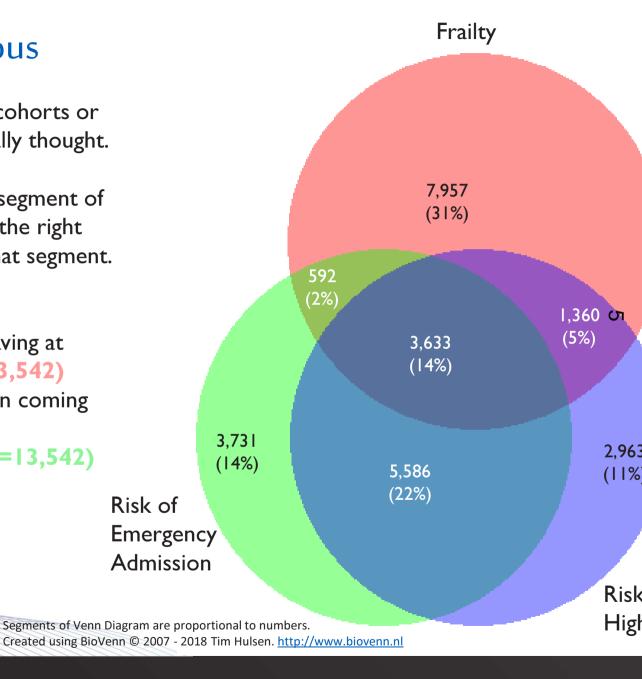
The degree of overlap between these different cohorts or segments isn't as great as people have traditionally thought.

Therefore need to think about what cohort or segment of the population you are interested in and match the right predictive model or case finding technique to that segment.

hree cohorts of patients:

Those who are flagged in the ACG System as having at least one condition associated with frailty (n=13,542)Those most at risk of an emergency admission in coming year (n=13,542)

Those at risk of highest costs in coming year (n=13,542)Total number of unique individuals = 25,822



ultimorbidity is associated with increased resource use and increased future

•													
			Average (mean)										
LTC Count	Number of patients	% of patients	Emergency admissions	Elective Admissions	A&E attendances	Outpatient attendances		otal APC cost		mergency nission cost	Unique Prescription types	Risk of Emergency Admission	Risk of Persistent High Cost
0	310,473	50.7%	0.0	0.0	0.2	0.4	£	43	£	25	1.0	6%	1%
1	133,742	21.9%	0.1	0.1	0.3	1.0	£	123	£	50	2.3	12%	3%
2	64,318	10.5%	0.1	0.2	0.3	1.6	£	270	£	91	3.9	17%	6%
3	36,730	6.0%	0.1	0.3	0.4	2.3	£	457	£	145	5.4	22%	11%
4	22,877	3.7%	0.2	0.4	0.4	2.9	£	688	£	242	6.8	27%	18%
5	14,701	2.4%	0.3	0.6	0.5	3.5	£	969	£	388	8.2	33%	25%
6	9,738	1.6%	0.3	0.7	0.6	4.1	£	1,377	£	575	9.4	39%	32%
7	6,423	1.0%	0.5	0.8	0.7	4.7	£	1,748	£	862	10.4	45%	39%
8+	12,958	2.1%	1.1	1.0	1.3	6.1	£	3,610	£	2,410	13.1	60%	55%
Total	611,960	100%	0.1	0.1	0.3	1.2	£	270	£	129	2.7	13%	6%
4													

lultimorbidity drives cost, not age

ments created by combining age of patient the number of chronic conditions they

mber denotes number of chronic ditions:

$$0 = 0$$

$$2 = 2 \text{ to } 4$$

Letter denotes age band:

$$5 = 5 \text{ to } 7$$

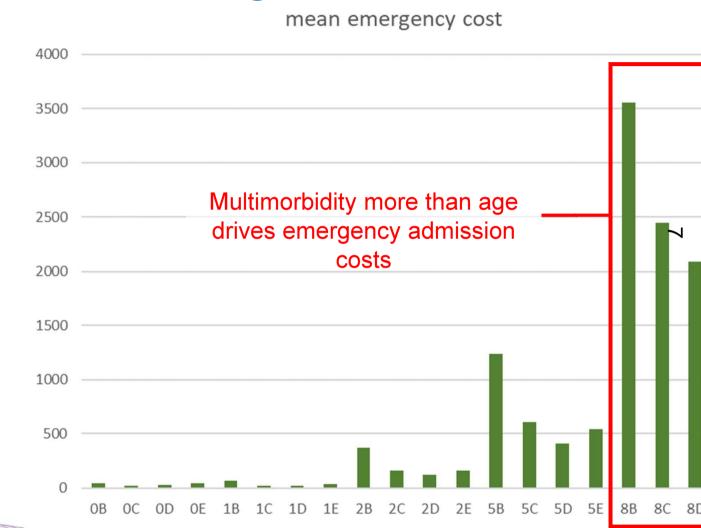
$$A = 0-17$$

$$B = 18-44$$

$$C = 45-64$$

$$D = 65-79$$

$$E = 80 +$$



mean emergency cost

icestershire population by age and chronic conditions (%) ultimorbidity is the norm

Chronic conditions	Children (00-17)	Adults of working age (18-64)	older people (65-84)	very old	Total (%)	
0	83	53	14	5	51	
1	14	26	18	8	22	
2	2	11	18	10	11	
3	1	5	15	12	6	œ
4	0	2	11	12	4	
5	0	1	8	12	2	28%
6	0	1	6	10	2	
7	0	0	4	8	1	
8+	0	0	7	23	2	
Total (%)	100	100	100	100	100	

icestershire population by age and chronic conditions (n) ultimorbidity is the norm

Chronic conditions	Children (00-17)	Adults of working age (18-64)	older people (65-84)	very old (85+)	Total	
0	106,677	204,302	16,560	855	328,394	
1	18,363	101,910	20,634	1,255	142,162	9
2	3,089	43,465	20,261	1,695	68,510	
3	678	19,734	16,850	1,960	39,222	
4	205	9,365	12,888	2,039	24,497	
5	110	4,621	9,180	1,966	15,877	- 179,
6	43	2,444	6,361	1,640	10,488	
7	24	1,366	4,266	1,270	6,926	
8+	31	1,803	8,405	3,747	13,986	
Total	129,220	389,010	115,405	16,427	650,062	

nds and Lancashire Commissioning Support Unit

ecific combinations of long term conditions

ole with diabetes and	n	%		Avg cost (12mths)	People with Congestive Heart Failure and	n	%		Avg co (12mth
ertension	19,621	55.0%	£	1,611	Hypertension	4,837	69.0%	£	3,99
onic Renal Failure	5,728	16.1%	£	2,329	Ischemic Heart Condition	3,082	44.0%	£	4,09
istent asthma	5,158	14.5%	£	1,571	Chronic Renal Failure	2,627	37.5%	£	4,20
emic Heart Condition	4,971	13.9%	£	2,670	Diabetes	2,254	32.2%	£	4,19
back pain	4,359	12.2%	£	1,770	COPD	1,322	18.9%	£	4,89
othyroidism	2,974	8.3%	£	1,662	Low back pain	1,277	18.2%	£	3,87
nic Obstructive Pulmonary Disease	2,509	7.0%	£	2,726	Persistent asthma	1,148	16.4%	£	3,93
estive Heart Failure	2,254	6.3%	£	4,191	Hypothyroidism	857	12.2%	£	4,33
ession	1,886	5.3%	£	3,075	Osteoporosis	692	9.9%	£	4,58
coma	1,285	3.6%	£	1,738	Depression	533	7.6%	£	6,34
related macular degeneration	1,169	3.3%	£	2,178	Age related macular degeneration	490	7.0%	£	3,85
oporosis	1,137	3.2%	£	2,848	Glaucoma	372	5.3%	£	3,81
umatoid arthritis	726	2.0%	£	2,684	Rheumatoid arthritis	264	3.8%	£	4,98
ıre Disorders	648	1.8%	£	2,616	Seizure Disorders	179	2.6%	£	5,09
ophrenia	382	1.1%	£	1,790	Parkinson's Disease	133	1.9%	£	4,85
inson's Disease	279	0.8%	£	2,598	Schizophrenia	87	1.2%	£	5,18
lar disorder	227	0.6%	£	1,738	Bipolar disorder	51	0.7%	£	4,67
unosupression/transplant	89	0.2%	£	9,418	Immunosupression/transplant	37	0.5%	£	9,43
eople with diabetes	35,677	-	£	1,188	all people with Congestive Heart Failure	7,006	-	£	3,42

nds and Lancashire Commissioning Support Unit

ecommendations

Develop a Leicestershire and wider LLR strategy for population health management, utilising risk stratification and care coordination approaches

Complete a further evidence review on the clustering of LTCs and define the key preventative interventions that should be prioritised across the system in line with the agreed priorities for risk stratification as part of the population health management approach.

Triangulate the results from this JSNA with those from the Right Care national evidence. In particular the falls and fragility $\frac{1}{2}$ pathway and long-term conditions work.

Complete further analysis exploring different cohorts of high risk patients to develop appropriate interventions at the system, place and neighbourhood level of population health management.

PCNs to review LTC disease segmentation within own practices to identify local priorities for commissioning and care coordination.



ecommendations

Agree one, system-wide classification of frailty for LLR.

Work with academic partners to evaluate the impact of risk stratification and care coordination across LLR. This may be locally reviewing the evaluation matrix and more formally through bidding for national funding and academic support.

Multimorbidity is now the norm, hence there is a need to ensure appropriate primary and secondary care services to address the needs holistically through implementation of the NICE guidance to ensure high quality care plans are completed at scale and accessible across organisations. UHL may therefore consider how it may treat multimorbid and frail patients more holistically in the longer term.

Embed MECC Plus across the system to ensure all professionals are aware of the prevention services and referral pathways available across Leicestershire.

LLR prevention board to consider the implications for frail and multimorbid patients as part of the self-care management workstream including use of assistive technologies.

