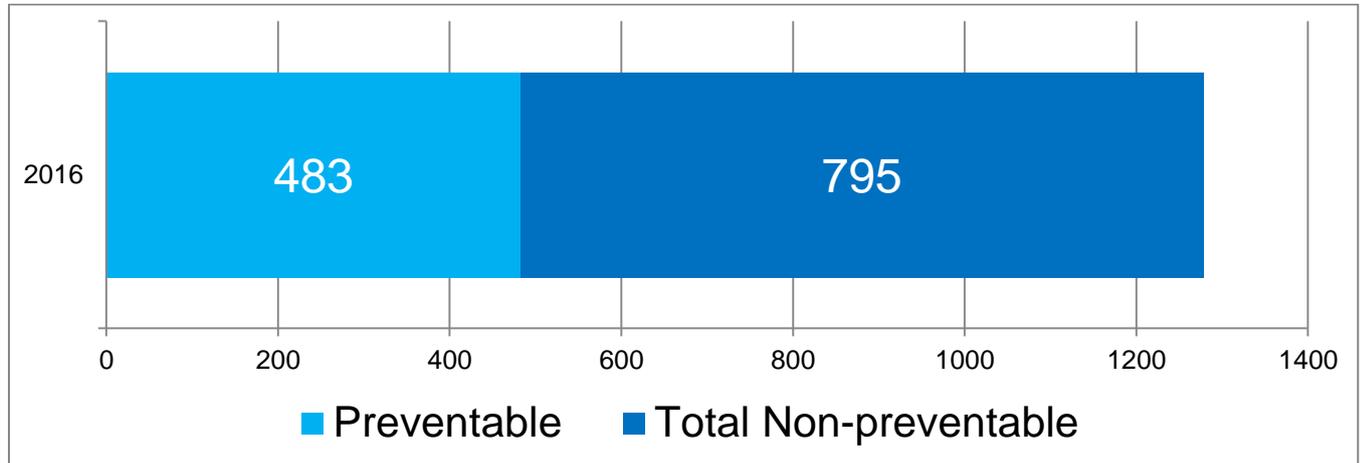


Cancer Prevention Toolkit

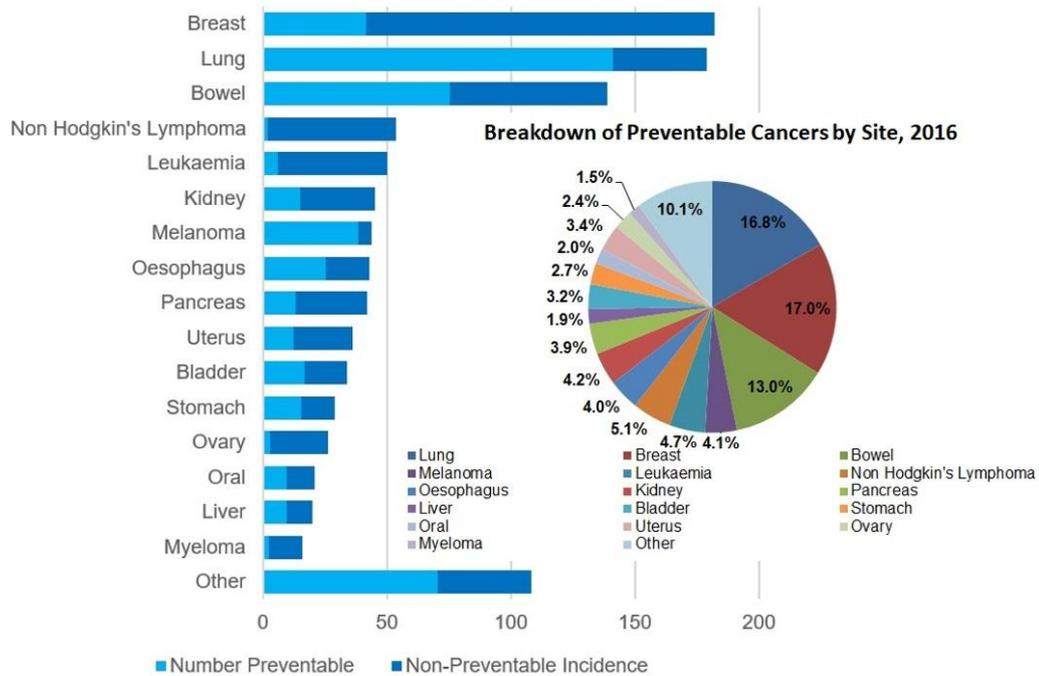
Derby

In 2016 there were 1278 incident cancers in Derby



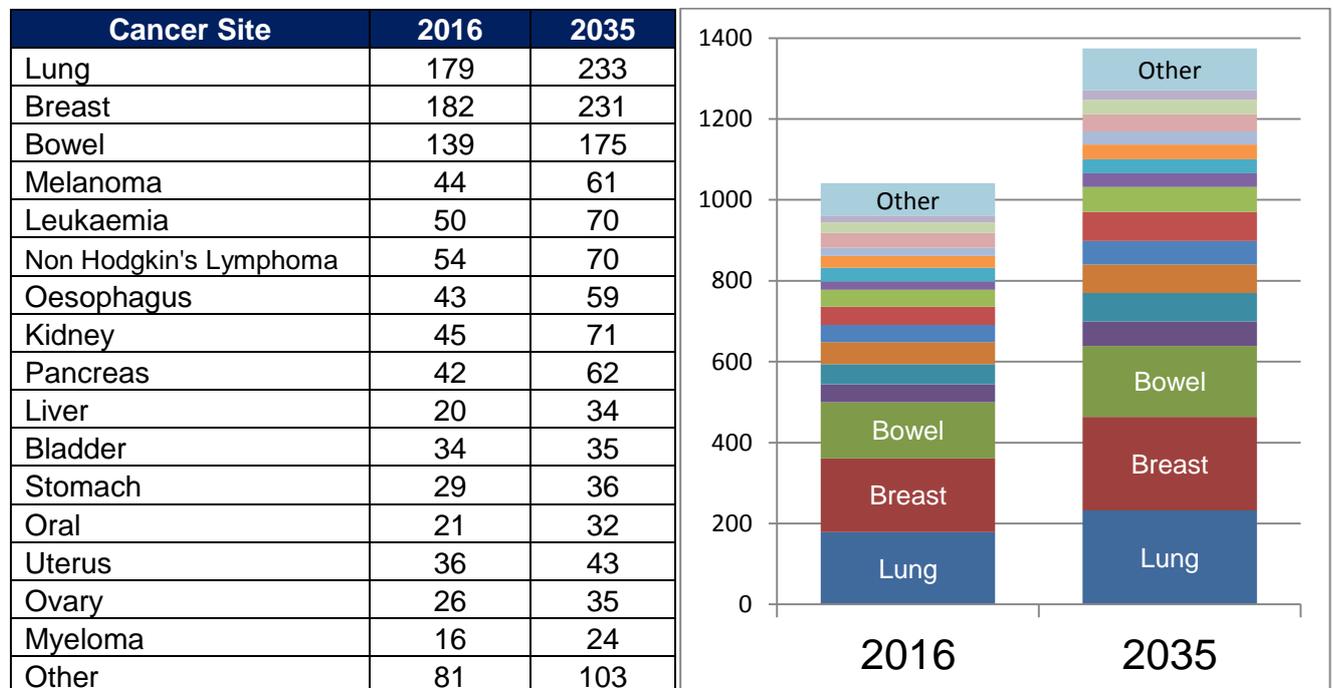
- 210 of these were of types that are never preventable, 1068 were of types where a proportion is preventable
- Of these, 483 cancers would have been considered preventable
- This is 38% of the total cancers in Derby.

Breakdown of 'Preventable' Cancers in 2016:



What would we expect in 2035?

Based on projections to 2035 by Smittenaar, Peterson et al (2016)



- 30% increase in Lung Cancer incidence



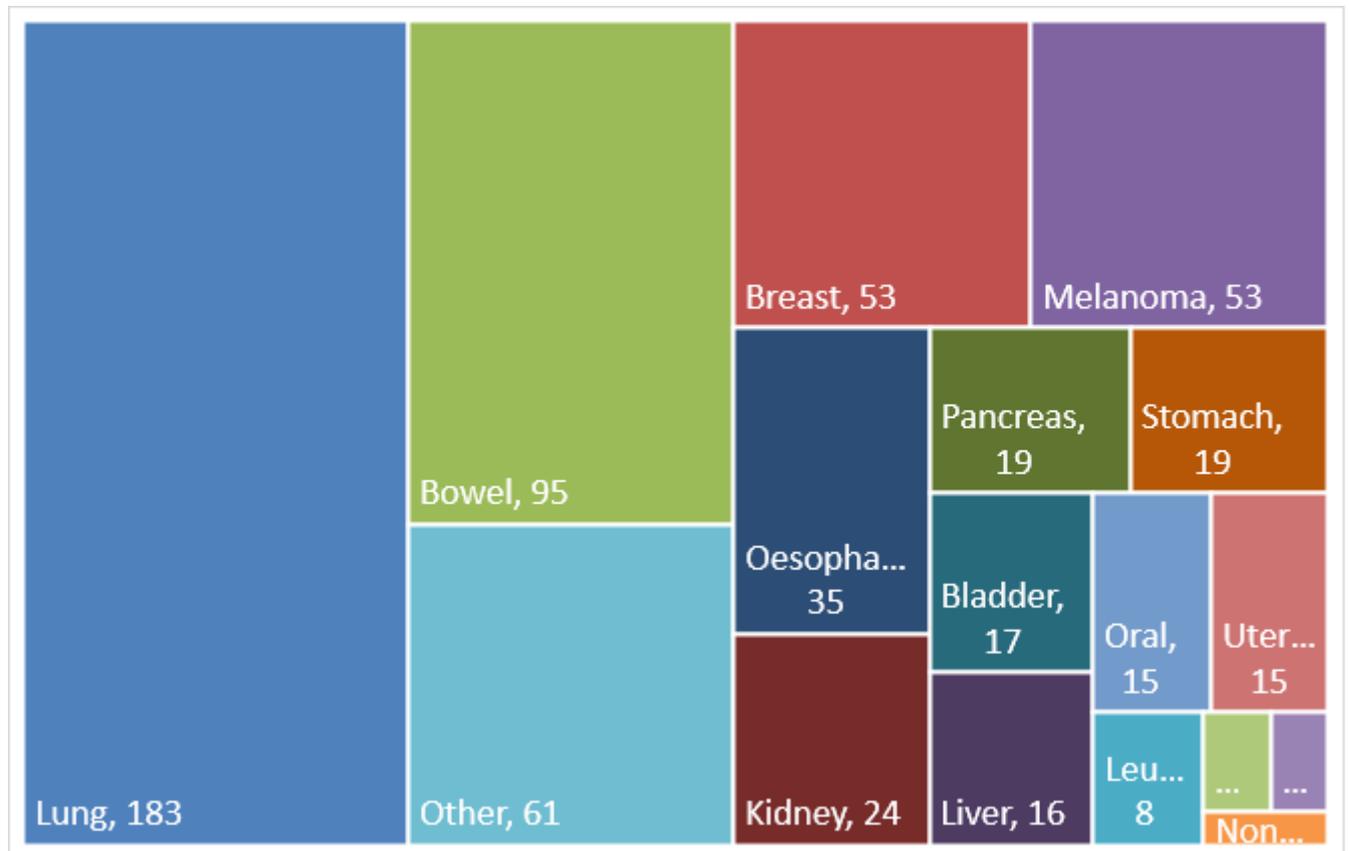
- 27% increase in **Breast** cancer
- Big percentage increases in **Kidney, Myeloma, Liver** cancers
- 333 additional cancers in total (32% growth)
- **Breast, Bowel and Lung** remain most numerous
- **Tobacco** the biggest contributor to preventable cancers

The **Cost** of Preventable Cancer

- **213** more people with social care needs due to cancer by 2035
- Preventable Cancers in Derby cost the NHS an estimated **£18** in 2016
- This is projected to rise to **£39.1m** in 2035
- Preventable cancers caused by Tobacco alone cost an estimated **£7.1m**, projected to rise to **£15.5m** in 2035

The Size of The Prize: How many cancers could we prevent in 2035?

(Top 10 preventable cancers in Derby in 2035)

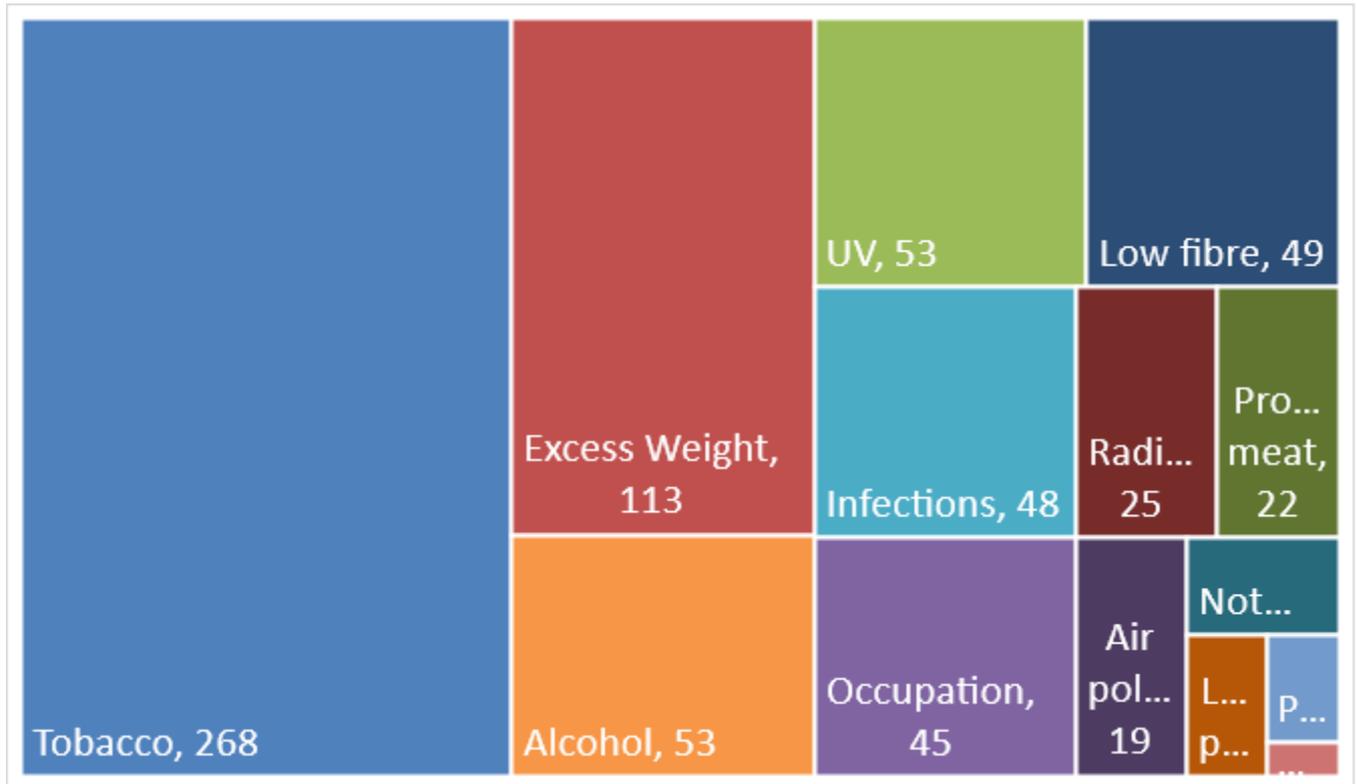


Cancer Site	2016 Incidence	Preventable Fraction	Number Preventable	Non-Preventable Incidence	Projected 2035 Incidence	Number Preventable	Non-preventable 2035 incidence
Lung	179	78.8%	141	38	233	183	49
Breast	182	22.9%	42	140	231	53	178
Bowel	139	54.1%	75	64	175	95	80
Melanoma	44	86.8%	38	6	61	53	8
Leukaemia	50	12.0%	6	44	70	8	62
Non Hodgkin's Lymphoma	54	3.4%	2	52	70	2	68
Oesophagus	43	58.7%	25	18	59	35	24
Kidney	45	33.5%	15	30	71	24	47
Pancreas	42	31.2%	13	29	62	19	42
Liver	20	48.3%	10	10	34	16	18
Total (all preventable sites)	1122	37.3%	466	575	1374	608	766

Where should we focus our efforts on cancer prevention?

What preventable factors will cause the most cancers in Derby in 2035?

Tobacco use is by far the biggest cause of preventable cancer in Derby



Notes

Totals won't sum due to rounding. All charts except chart 1 (total incident cancers) display data on only those cancers with an attributable fraction calculated by Brown, Runggay *et al* (2018)

Trend projections calculated using Annual Percentage Increase Values from:

Smittenaar, C R; Peterson, K A; Stewart, K; Moitt, N; *Cancer Incidence and Mortality Projections in the UK until 2035*, British Journal of Cancer, 2016, 115, 1147 – 1155 doi: 10.1038/bjc.2016.304

Hidden at Home – The social care needs of people with cancer, Macmillan, London, 2015

Attributable Fractions sourced from:

Brown, Kf ; Runggay, H ; Dunlop, C ; Ryan, M ; Quartly, F ; Cox, A ; Deas, A ; Elliss-Brookes, L ; Gavin, A ; Hounscome, L ; Huws, D ; Ormiston-Smith, N ; Shelton, J ; White, C ; Parkin, DM, *The fraction of cancer attributable to modifiable risk factors in England, Wales, Scotland, Northern Ireland, and the United Kingdom in 2015*, British Journal Of Cancer, 2018 Apr, Vol.118(8), pp.1130-1141

Incidence Data downloaded from
nww.cancerstats.nhs.uk, June 2018

Estimate of social care impact (64% of cancer patients have practical social care needs) sourced from: