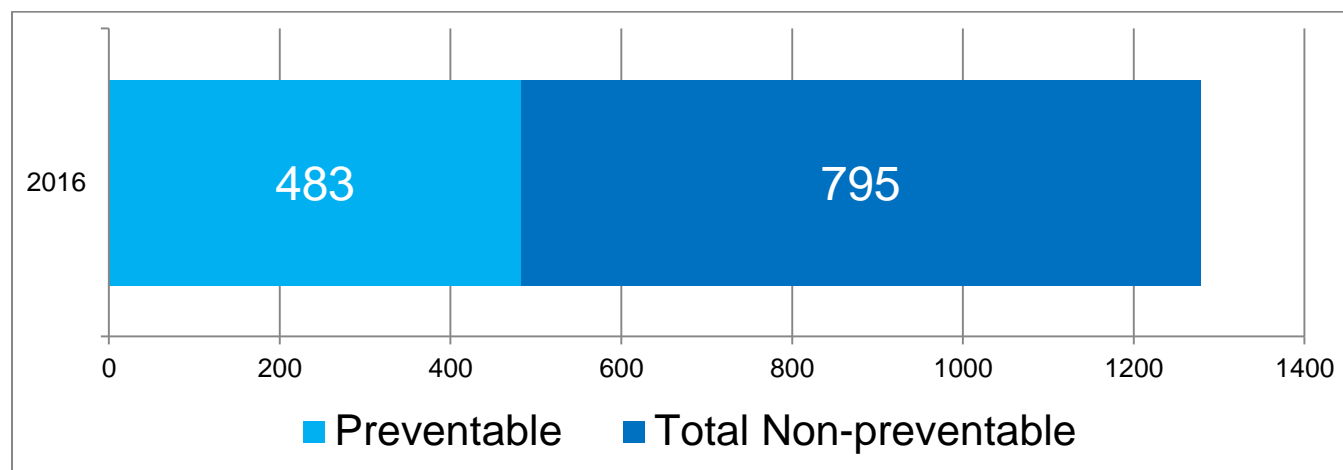


# Cancer Prevention Toolkit

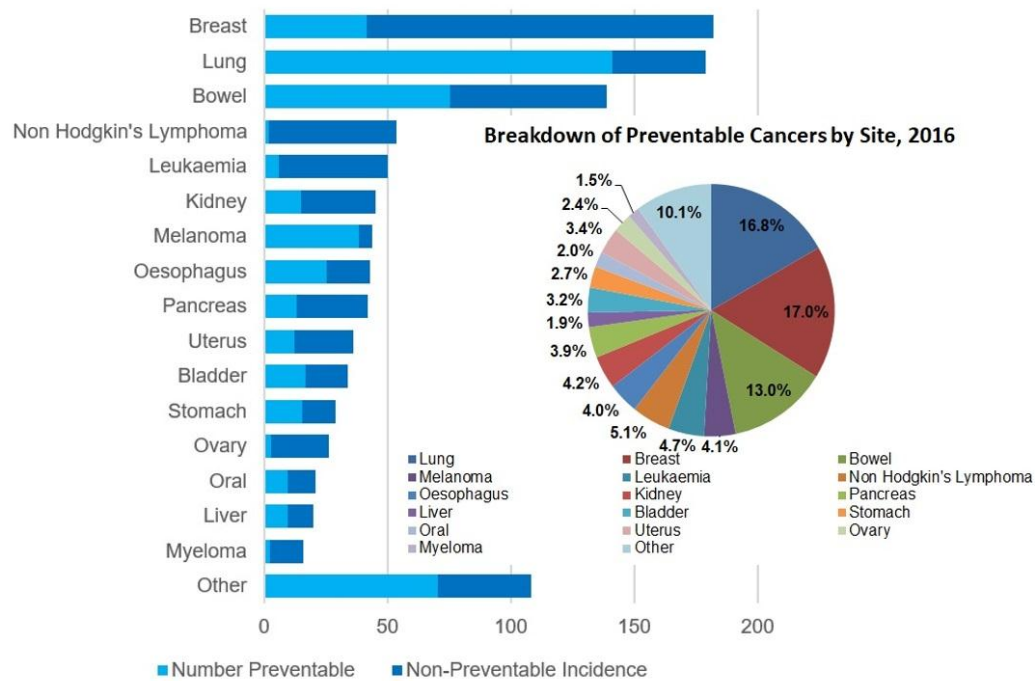
## Derby

In 2016 there were 1278 incident cancers in Derby



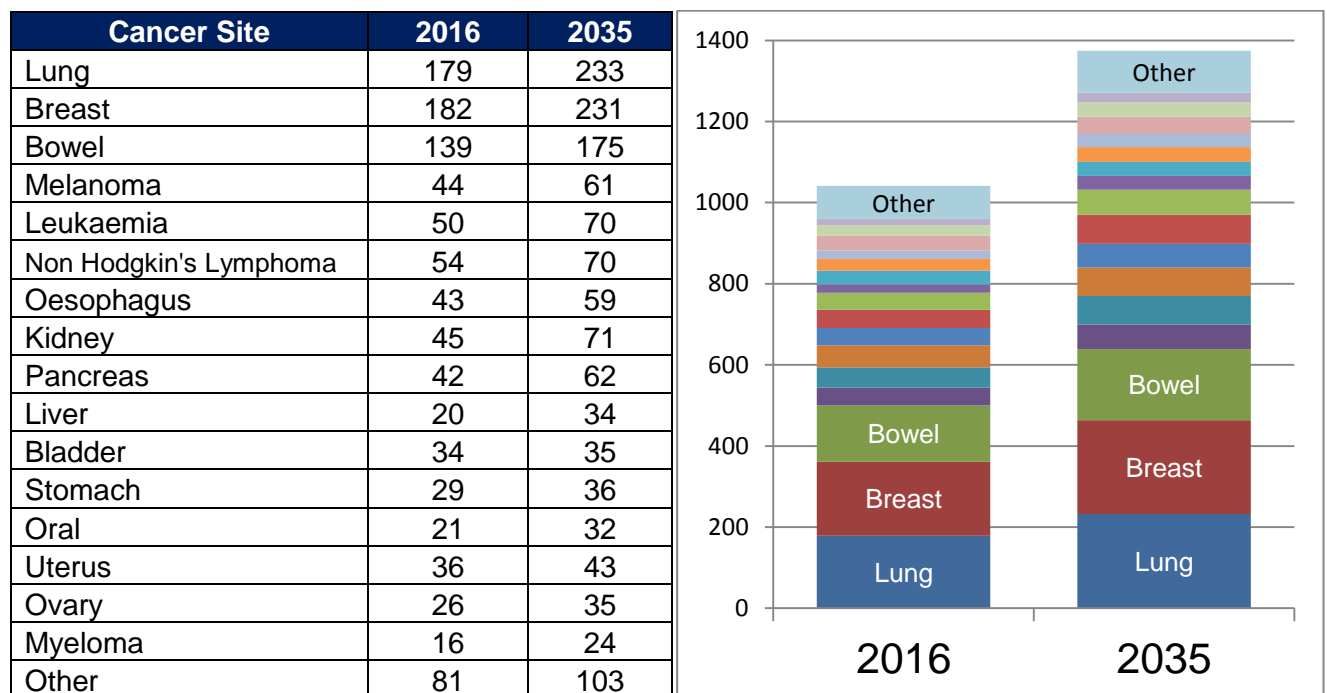
- 210 of these were of types that are never preventable, 1068 were of types where a proportion is preventable
- Of these, 483 cancers would have been considered preventable
- This is 38% of the total cancers in Derby.

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



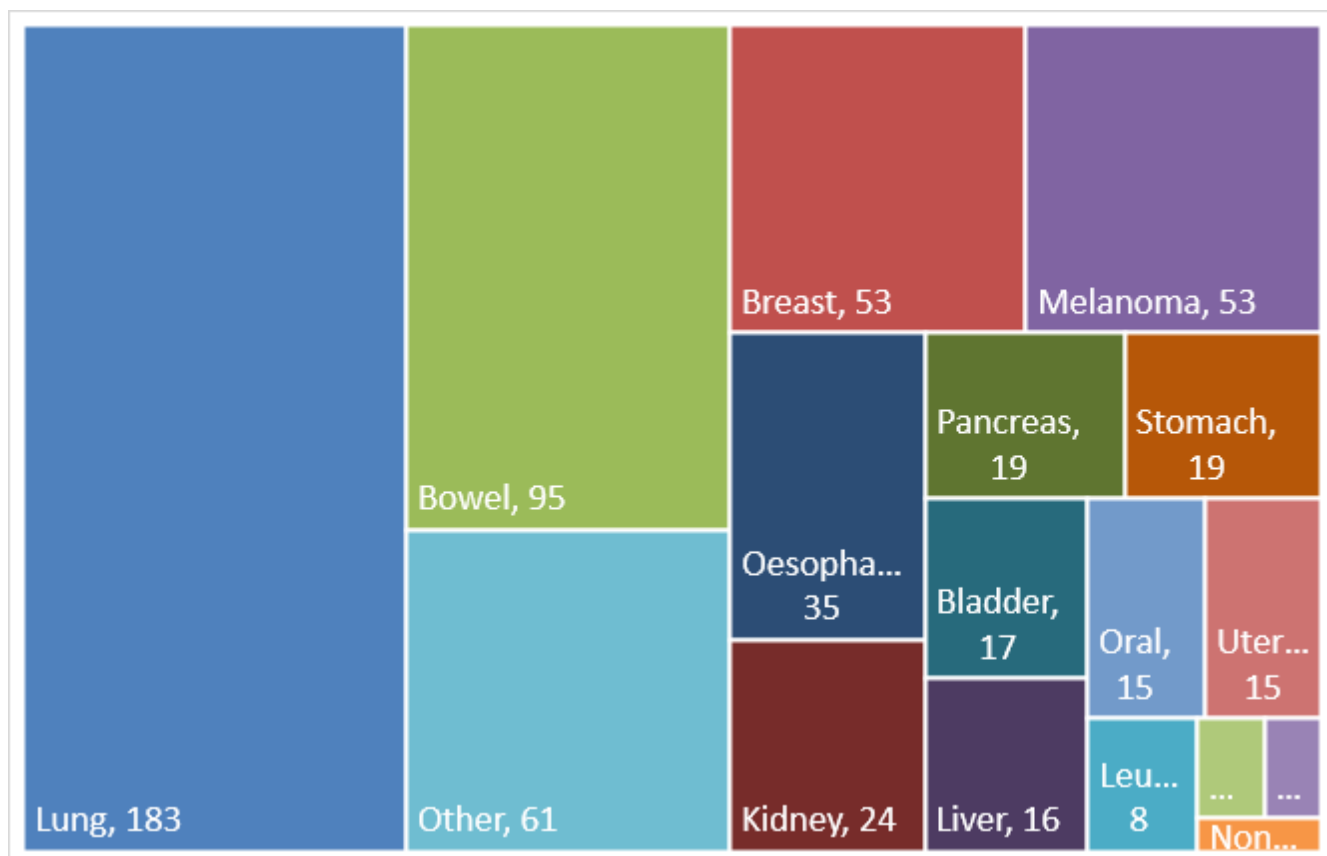
- 27% increase in **Breast** cancer
- Big percentage increases in **Kidney, Myeloma, Liver** cancers
- 333 additional cancers in total (32% growth)
- **Breast, Bowel and Lung** remain most numerous
- **Tobacco** the biggest contributor to preventable cancers

### 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)

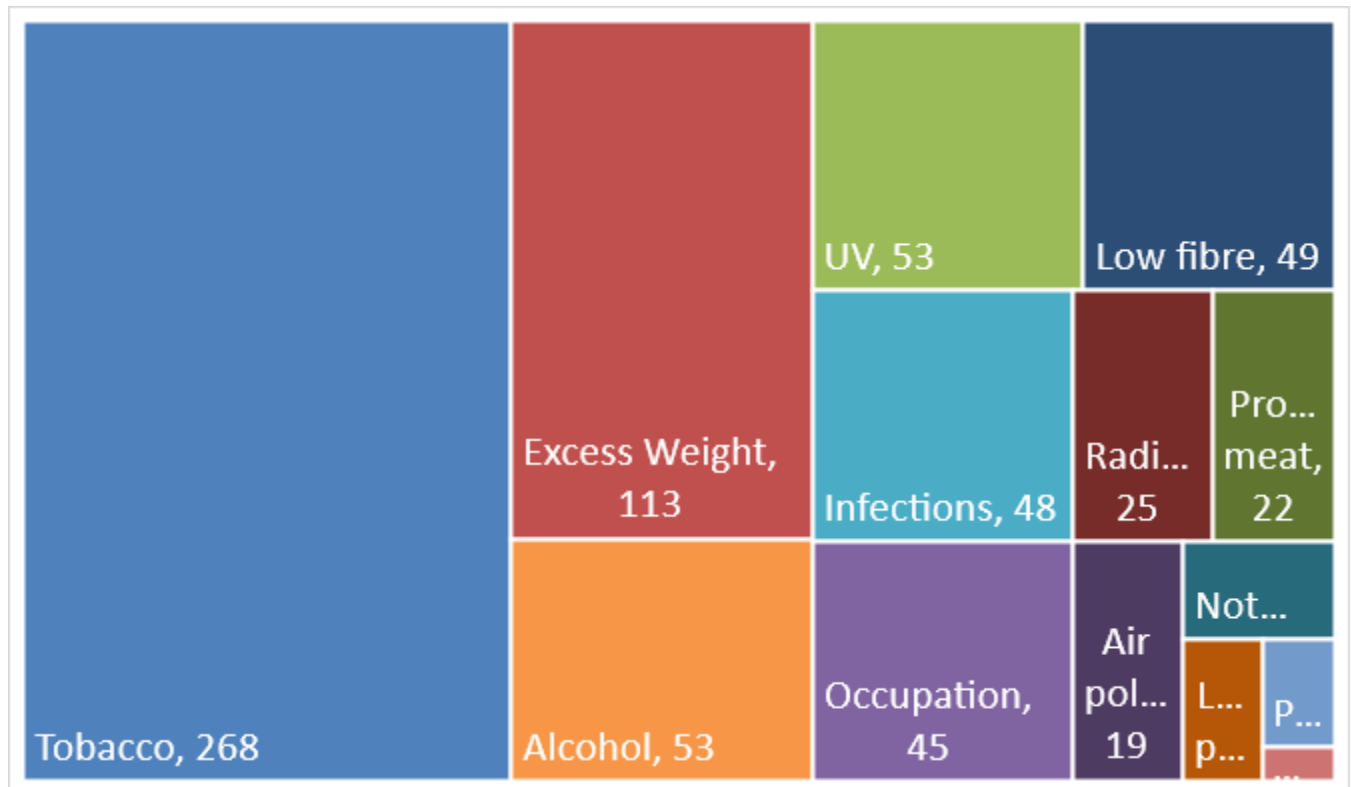


Cancer Site	2016 Incidence	Preventable Fraction	Number Preventable	Non-Preventable Incidence	Projected 2035 Incidence	Number Preventable	Non-preventable 2035 incidence
Lung	179	78.8%	141	38	233	183	49
Breast	182	22.9%	42	140	231	53	178
Bowel	139	54.1%	75	64	175	95	80
Melanoma	44	86.8%	38	6	61	53	8
Leukaemia	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
<b>Total (all preventable sites)</b>	<b>1122</b>	<b>37.3%</b>	<b>466</b>	<b>575</b>	<b>1374</b>	<b>608</b>	<b>766</b>

# 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, Rungay *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 ; Rungay, H ; Dunlop, C ; Ryan, M ; Quartly, F ; Cox, A ; Deas, A ; Elliss-Brookes, L ; Gavin, A ; Hounsborne, 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: