

Cancer claims and disability at a time of changing Rx and prognosis

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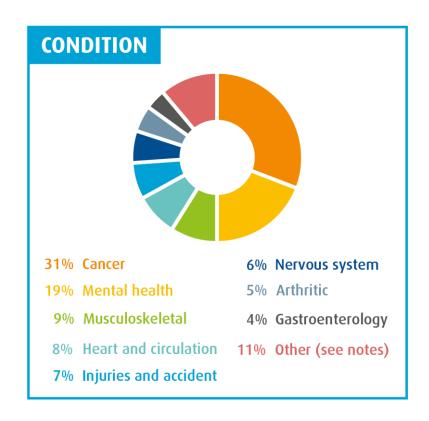


Cancer Claims in a disability block

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The UNUM disability claims block

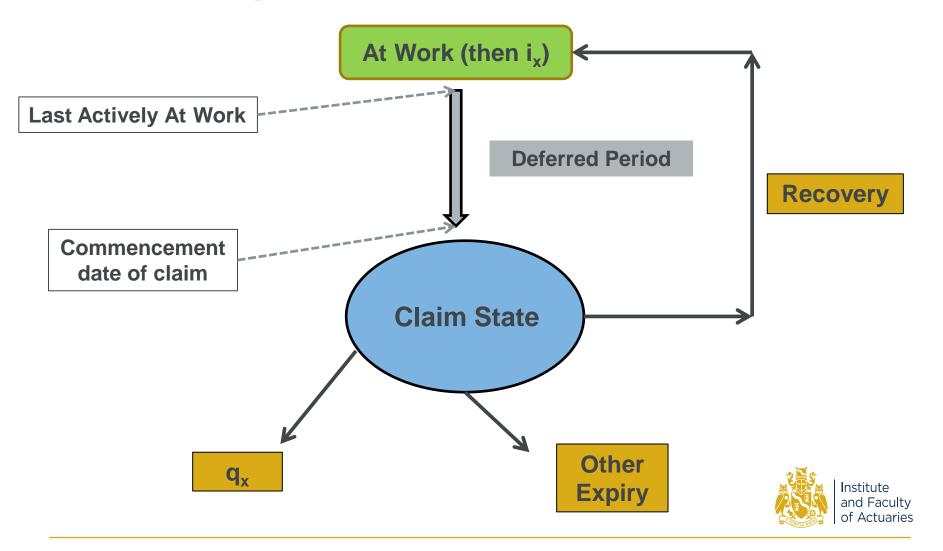
- ≈ 60,000 disability claims
- Group Risk block
 - Typically 26 week deferred period
 - Own Occupation
 - Benefit to retirement age
 - Longest paid claim for 35 years
 - Claims ICD9 coded
 - Remember the Employer and Employee dynamics



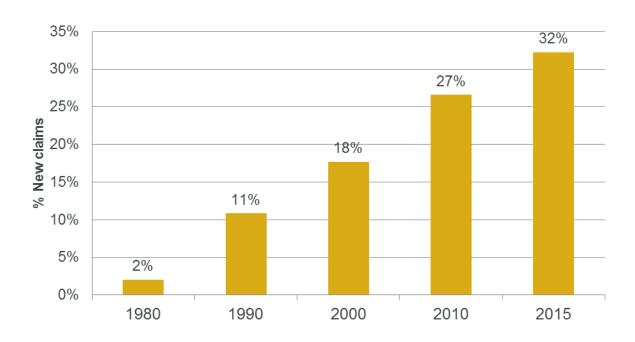


22 May 2017 Source : **Unum**

Claims in practice



Cancer as percentage of new claims in UNUM block

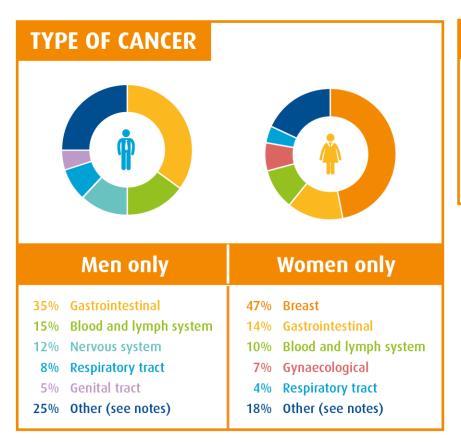


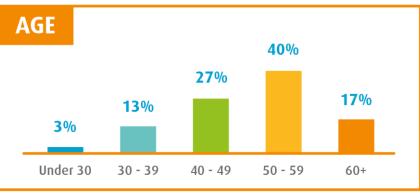
- Now easily largest cause of claim
- Main other trend is fall of Cardiovascular over the same period

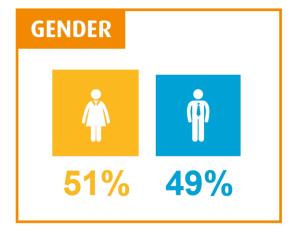


22 May 2017 Source : **Unum** 6

UNUM 2016 Claims Statement – Cancer



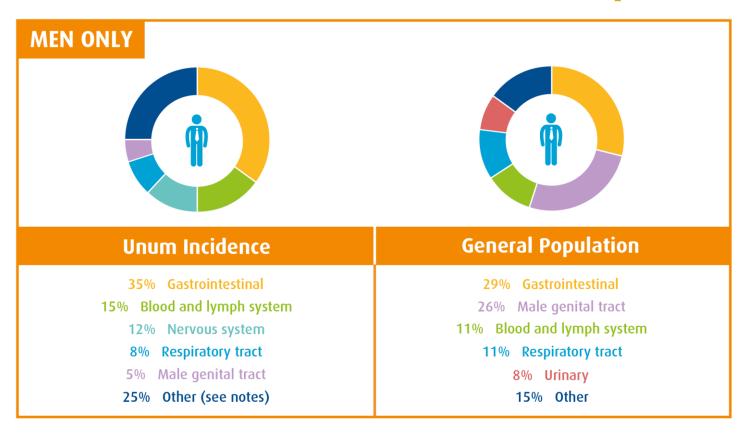






22 May 2017 Source : **Unum** 7

UNUM Incidence vs. General Population



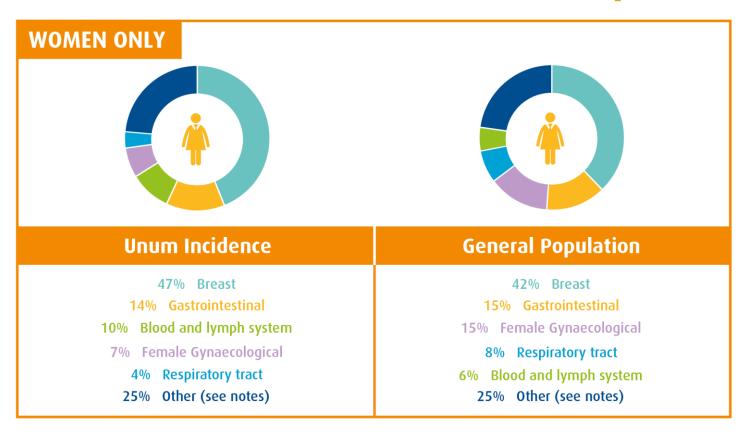
- Gastrointestinal most common for both populations
- Fewer Prostate claims, more Brain cancer claims



Source : Unum



UNUM Incidence vs. General Population



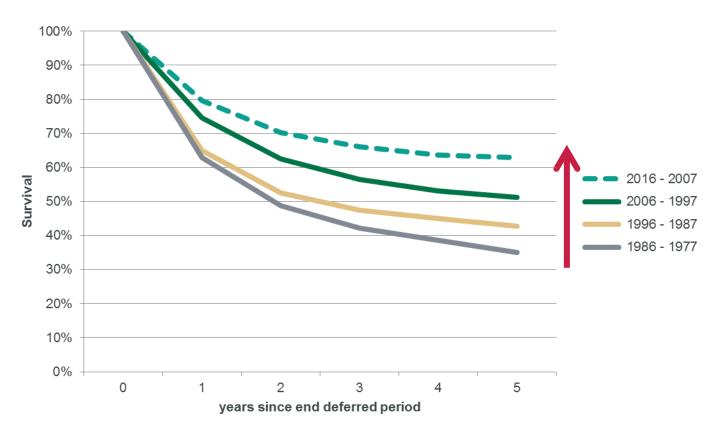
- GI and Breast most common for both populations
- Mix very similar







Cancer survival is improving over time in UNUM block

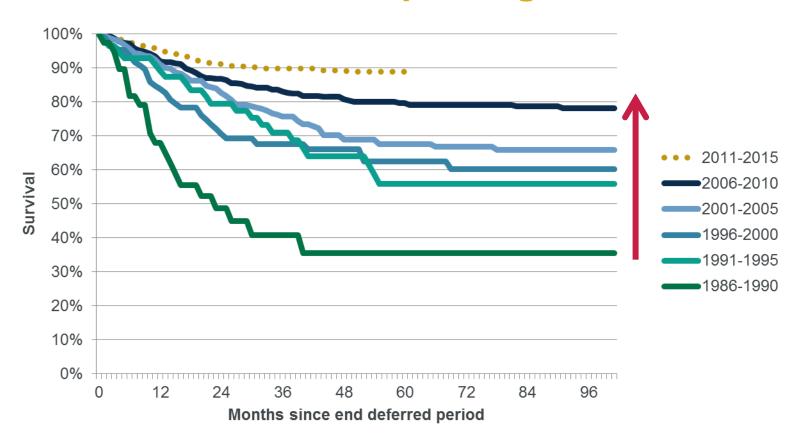


Survival on claim



22 May 2017 Source : **Unum** 10

Breast Cancer survival improving in block

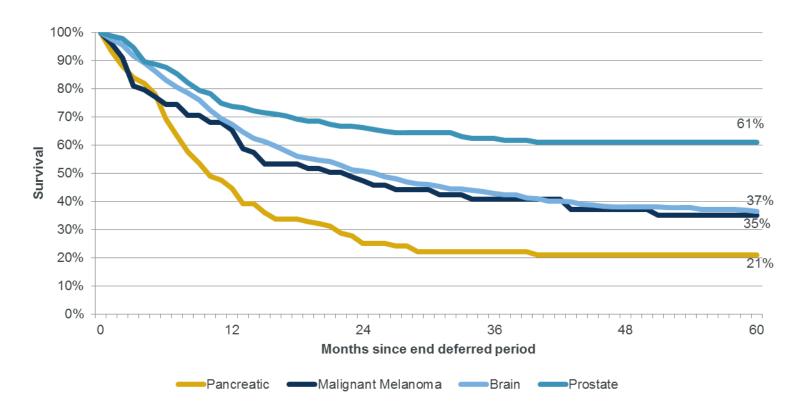


- Most common cancer type
- Increasing counts and improving survival by cohort



22 May 2017 Source : **Unum** 11

Not what you might first expect by type?



- Brain cancer far more common than Malignant Melanoma in block
- Little evidence of cohort improvements over time

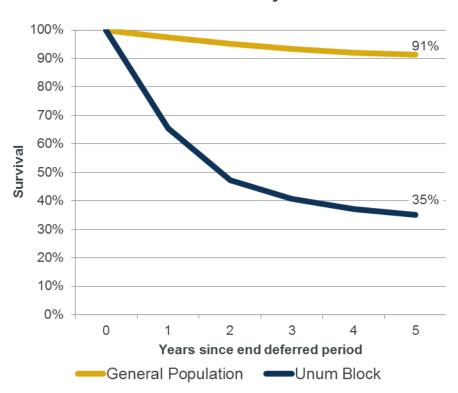
22 May 2017 Source : **Unum** 12

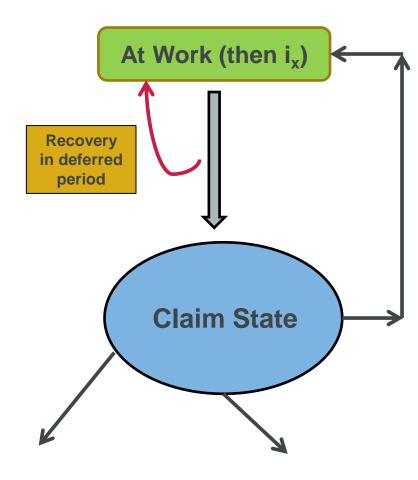
Institute

and Faculty of Actuaries

Malignant Melanoma

Survival over 5 years





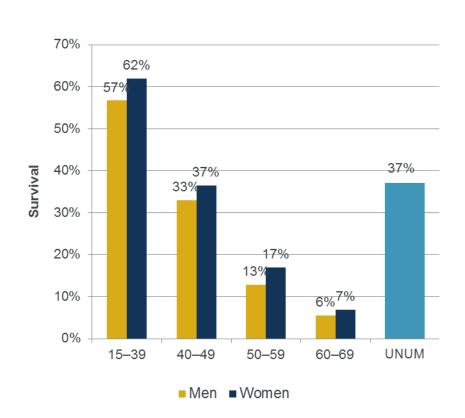


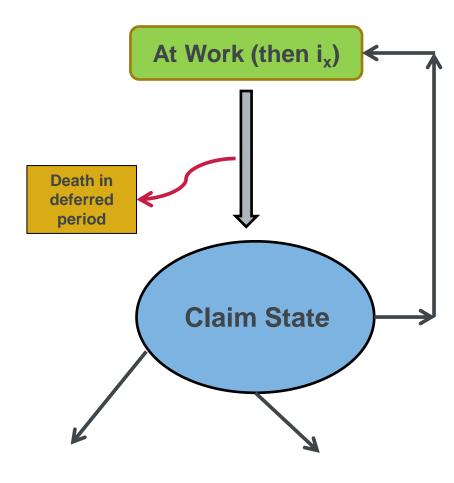




Brain

5 Year Survival











The deferred period effect

 To enter claim state, claimant must move through deferred period

- Not all cancer suffers stop working, or stop for full deferred period
- Not all cancer suffers survive full deferred period

 For some cancers, given claimant has remained unable to work for 6 months, they are more likely to have worse prognosis than general population

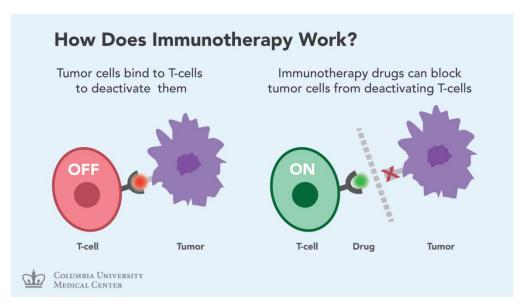
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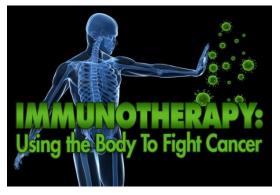
Brief words on Emerging Therapies

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Living in interesting times for Cancer Treatment







New cancer drug offers hope of a lasting cure

The Times Feb 12th 2016

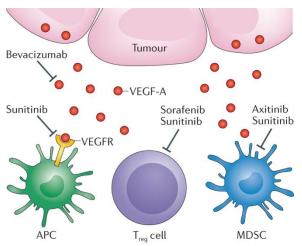
Are we near a cure for the Big C?

The Times 2016

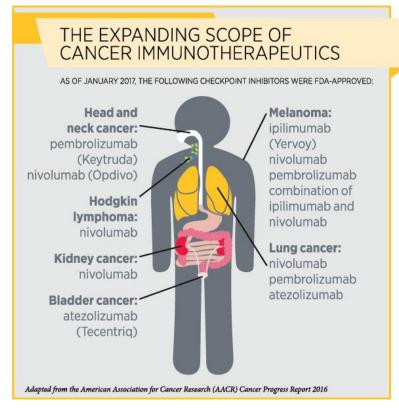


Living in interesting times for Cancer Treatment





Nature Reviews | Urology

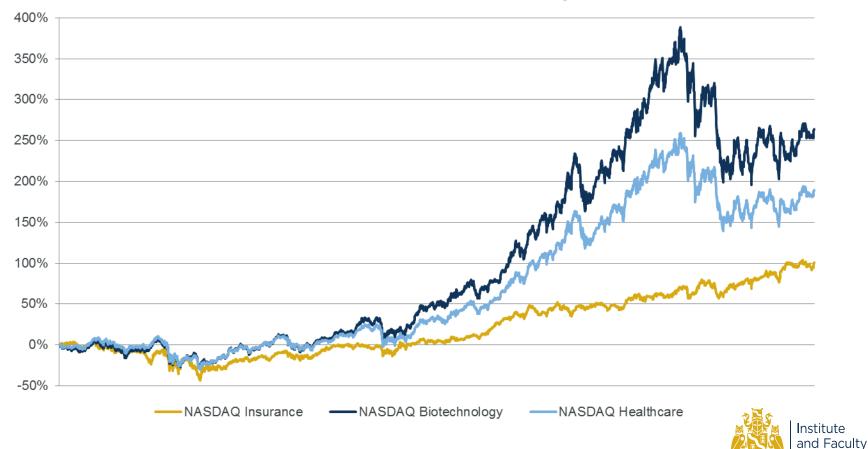






The rise of Biotechnology

NASDAQ Sector Performance over 10 years



Nasdaq

Source:

of Actuaries

Costs and Rationing

Cancer drugs fund cuts 23 treatments

BBC – September 2015

"The annual cost in the United States of a commonly prescribed drug combination for advanced skin cancer is, per patient, greater than the average cost of an American home."

Institute of Cancer Research (ICR) - Jan 2017

Scotland gets cancer drug that is too expensive for England

The Times April 2017

Cancer Drugs Fund 'huge waste of money'

BBC April 2017

Fifth of new medicines to be rationed

The Times - Jan 19th 2017

THE TEN MOST EXPENSIVE MEDICINES Drugs - given to Average patients via the treatment Average Cancer Drugs Fund Cancer type time cost Imbruvica (ibrutinib) Leukaemia/lymphoma 16 months £82,416 Adcetris (brentuximab) Hodgkin's lymphoma £81,000 6.2 mths Perjeta (pertuzumab) £71.850 Breast 17.4 mths Nexavar (sorafenib) Liver 8.2 mths £69,208 Kadcyla (trastuzumab 7.6 mths £64,988 emtansine) Breast Xalkori (crizotinib) £37,814 7.2 mths Lung Jevtana (cabazitaxel) £26,610 Prostate 4.2 mths Stivarga (regorafenib) Gastrointestinal 5.3 mths £23.813 Erbitux (cetuximab) £23,076 Bowel 5.5 mths Afinitor (everolimus) Breast 5.5 mths £18,293

The Daily Mail

Costs are based on list price for average treatment time, and do not include confidential discounts offered to the NHS. Source: NHS England

May 2016





Case studies

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A selection of emerging therapies treatments we have seen























Case Study 1





Case Study 2





Case Study 3







A CMO view of the future and final thoughts

sessional Meetings

Morking Parties

Johnteering

Research

Thoughtleadership

Community

Professional support

Shapingthefuture

Hetworking.

Enterprise and risk

Learned society

Opportunity

International profile

Challenges for Claimants and Employers

 All three case studies examples of cancer survival that would be unheard of only 5 years ago

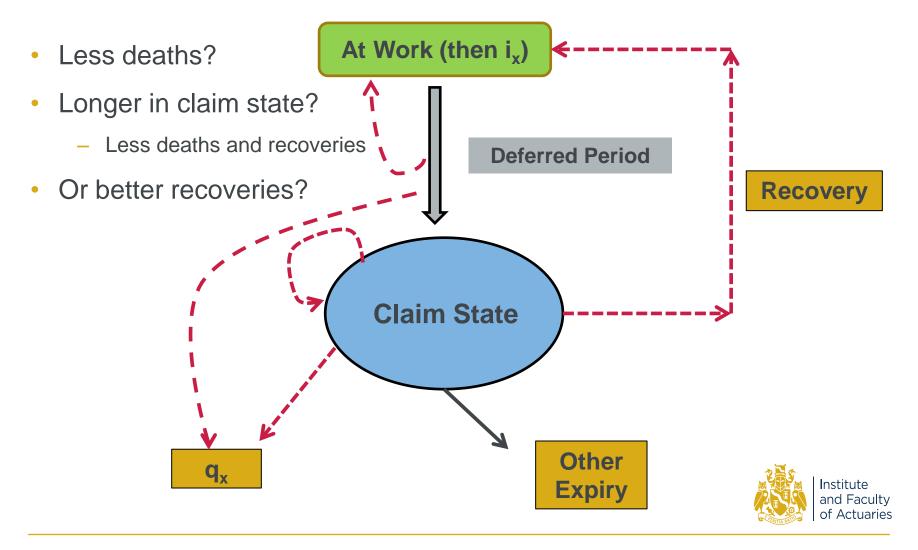
- Co-morbidities of cancer
 - Less severe side effects of treatment are common
 - Potential severe side effects, some rare some not so rare
 - Psychological / emotional impact of diagnosis and treatment
 - Risk of depression, can occur after primary treatment completed



Challenges for Claimants and Employers

- Are they well enough to return to work?
 - Clear restriction or limitation
 - How do they 'feel'
- What do those around them say?
 - This can be a major influence
 - Negative medical language or advice
- Difficult as not "cured"
 - Living with a disease on experimental drugs, prognosis very uncertain

Possible Impacts?



Final Thoughts

- Cancer will continue to increase as cause of claim
 - this trend is linked to improving cancer survival in general
- Emerging Therapies are now becoming more prevalent in disability claims that we are seeing day to day
- Covering costs? GCI/PMI
- Too early to see a significant impact on experience,
 - but no doubt we are seeing an increasing number of advanced cancer claims with dramatic responses to treatment
- Cancer will remain a key cause of disability claim for the individual, employer and insurer

Questions Comments

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