

Extending the Critical Path

A presentation by the Critical Illness Definitions and Geographical Variations Working Party

17 February 2014

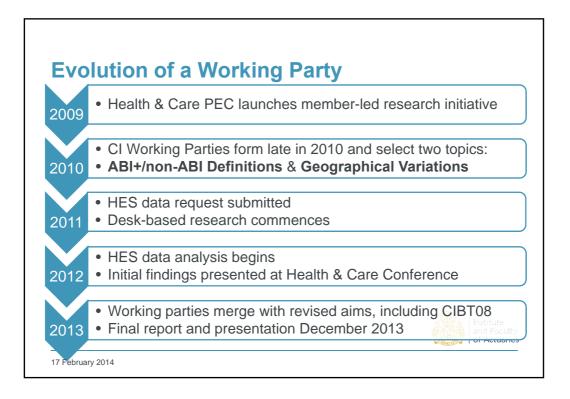
Agenda

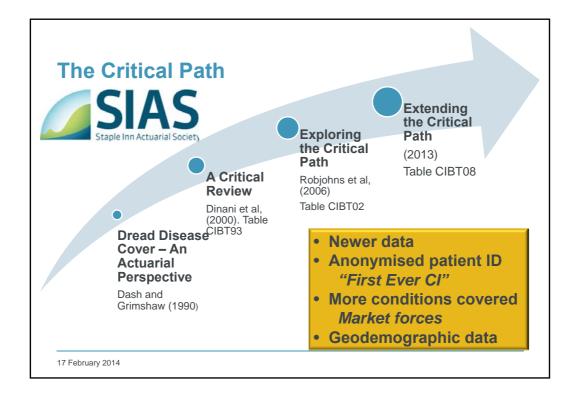
- Background
- Hospital Episodes Statistics data set
- Methodology for aggregate population rates table CIBT08
- Example: Cancer
- CIBT08 composition by illness
- Comparisons with CIBT02 and ACL04
- Geodemographic variation investigations
- Discussion and questions

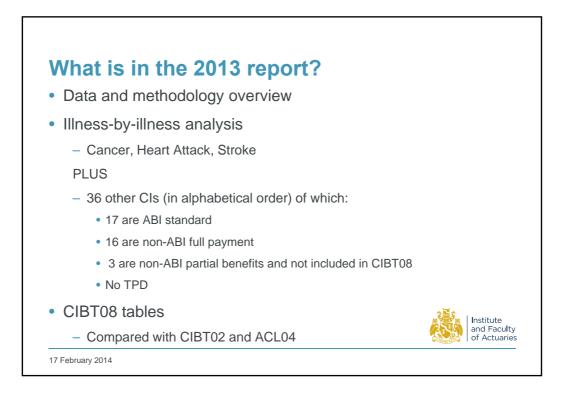


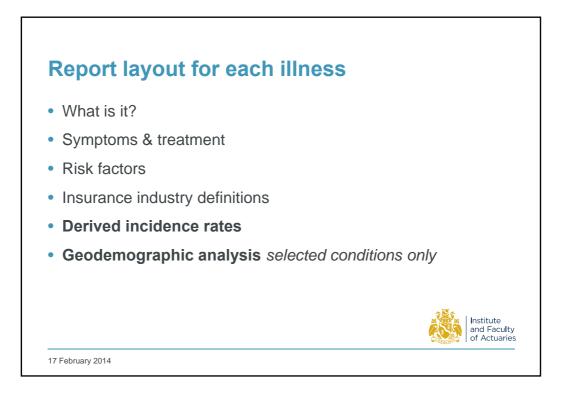
17 February 2014



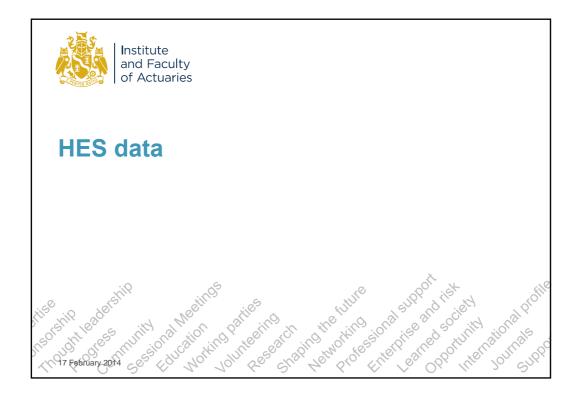


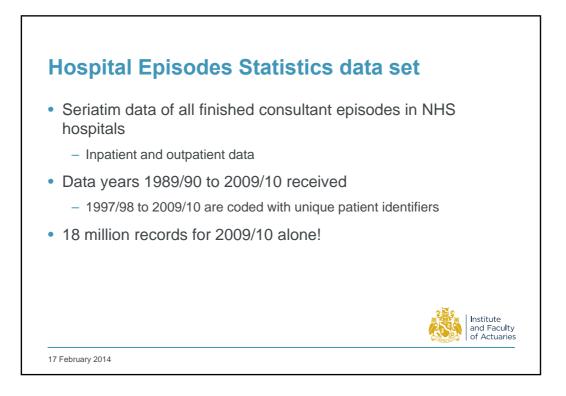




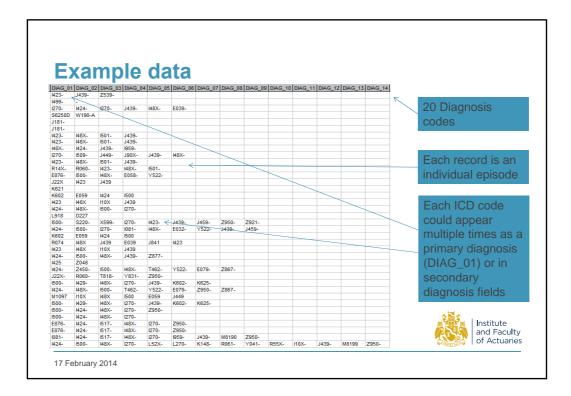


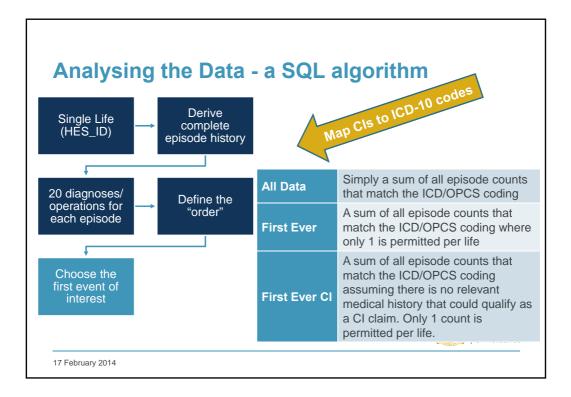


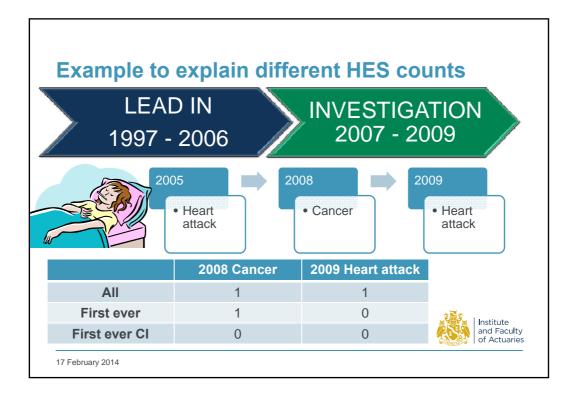


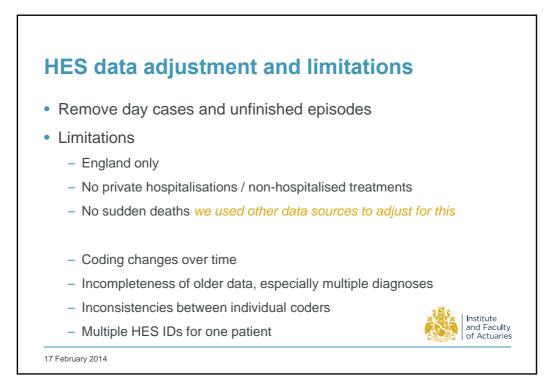


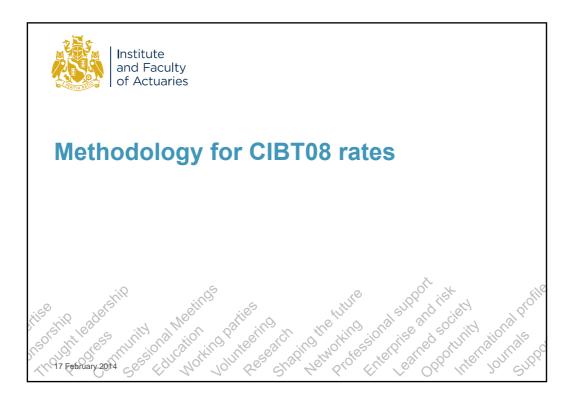
| What the H | ES data looks like | | | | |
|------------------------------|--|--|--|--|--|
| Patient Identifier | Unique identifier by patient – 47m of these | | | | |
| Basic Patient Information | Age, gender | | | | |
| Basic Episode Information | Date started, date finished, admission method, current status et | | | | |
| Diagnosis Information | Up to 20 different diagnoses | | | | |
| Procedure Information | Up to 20 different operations, with date of operation | | | | |
| Geographical Information | ostal district, Lower Super Output Area, IMD Rank, <mark>Mosaic</mark> /pe, ACORN Type, Health ACORN type | | | | |
| | Institute and Faculty of Actuaries | | | | |

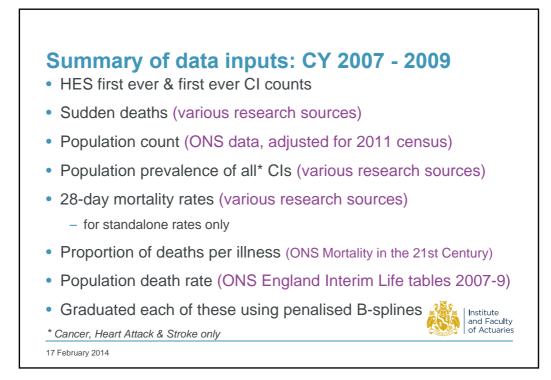


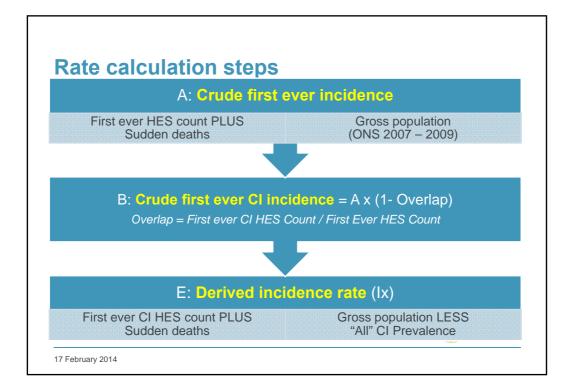


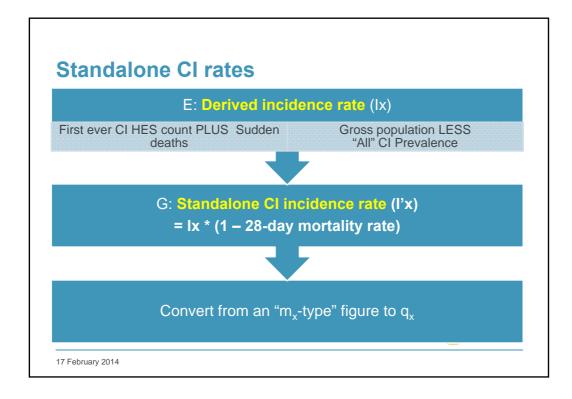


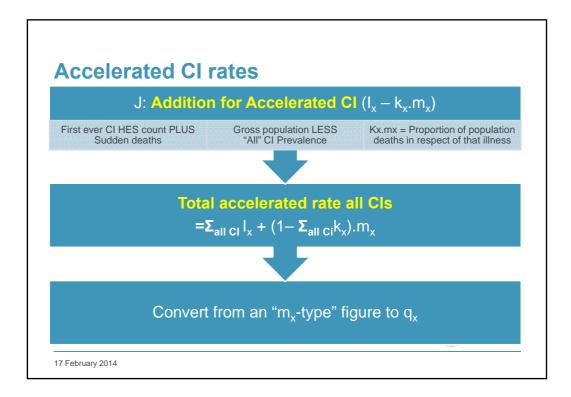


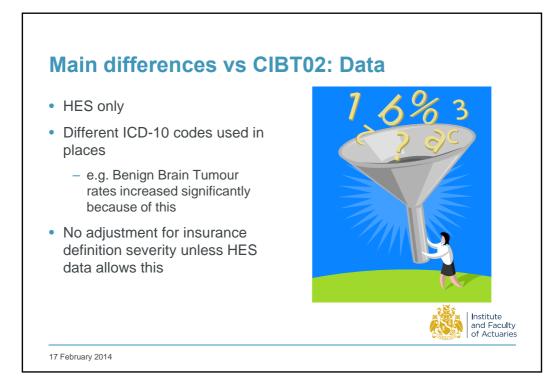


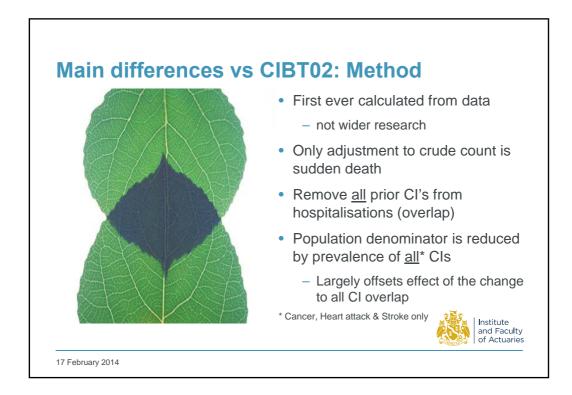


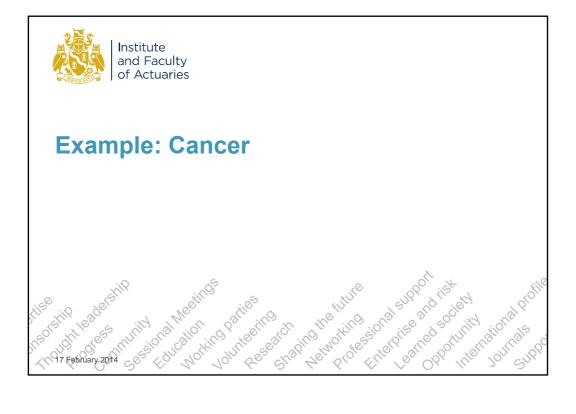


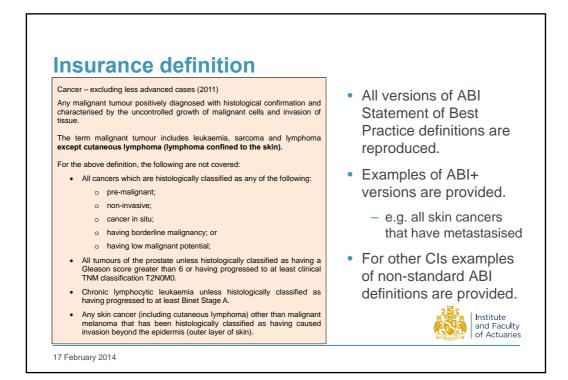












| ancer population CI inci | acrice | | 100) | |
|--|--------|-------|--------|----------------------|
| Age Band | 20-39 | 40-59 | 60-79 | |
| Smoothed, Interpolated Crude Rate | 5.92 | 31.25 | 166.96 | |
| Adjustment for Overlap | -6.9% | -9.8% | -21.5% | |
| Prevalence Rate | 0.7% | 5.5% | 25.3% | |
| Derived Incidence Rate I _x | 5.55 | 30.11 | 180.57 | |
| 28 Day Mortality Rates | -0.6% | -0.9% | -1.1% | |
| Stand Alone Rates I', | 5.51 | 29.83 | 178.42 | |
| ^ | | | | |
| Mortality Rates | 9.15 | 36.28 | 219.94 | |
| Proportions of Deaths k _x | 10.1% | 26.0% | 37.2% | |
| Addition for Accelerated Rates $I_x - k_x q_x$ | 4.57 | 19.30 | 103.74 | |
| Rates are per 10,000 population | | | | Insti and of A |

