

Estimates of future palliative care need in Scotland

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**Care and support
through terminal illness**



Study team

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Background

Etkind et al. *BMC Medicine* (2017) 15:102
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BMC Medicine

RESEARCH ARTICLE

Open Access

How many people will need palliative care in 2040? Past trends, future projections and implications for services



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Results:

- + 25% deaths
- + 160,000 with palliative care needs

Aim

To estimate the number of people dying with palliative care needs in **Scotland** up to 2040.



Methods

Design

Secondary analysis of national death registry data and mortality projections for Scotland.

Data sources

1. Deaths by age, gender and cause 2007 to 2017 (ISD/NRS)



2. Mortality projections for Scotland up to 2040 (ONS)



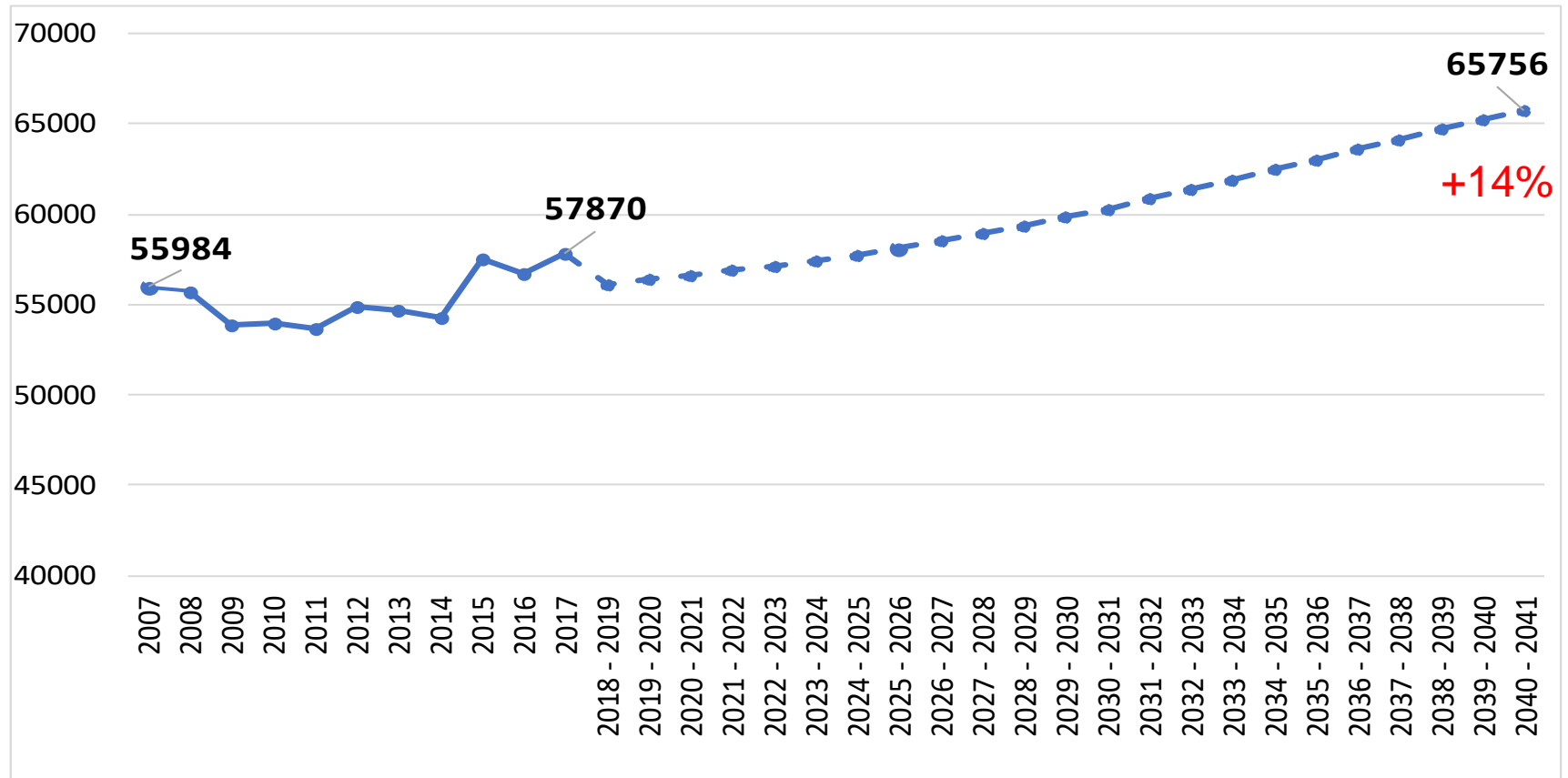
Palliative Care Estimate

| Disease Group | ICD10 Code | Conditions included |
|---------------|---|---|
| Cancer | C00 – C97 | All deaths from malignant neoplasms. |
| Organ Failure | I00 – I52 (excl. I12 & I13) J40-47, J96 I12, I13, N17, N18, N28 K70 - 77 | Heart disease and heart failure. Chronic lower respiratory disease, respiratory failure. Reno-vascular disease, renal failure. Liver disease. |
| Dementia | F01, F03, G30, R54 | Dementia, vascular dementia, Alzheimer's disease, Senility. |
| Other | G10, G12.2, G20, G23.1, G35, G90.3 I60 – I69 B20-24 | Huntington's disease, motor neurone disease, Parkinson's disease, progressive supranuclear palsy, multiple sclerosis, multi system atrophy. Haemorrhagic, ischaemic and unspecified stroke. HIV |

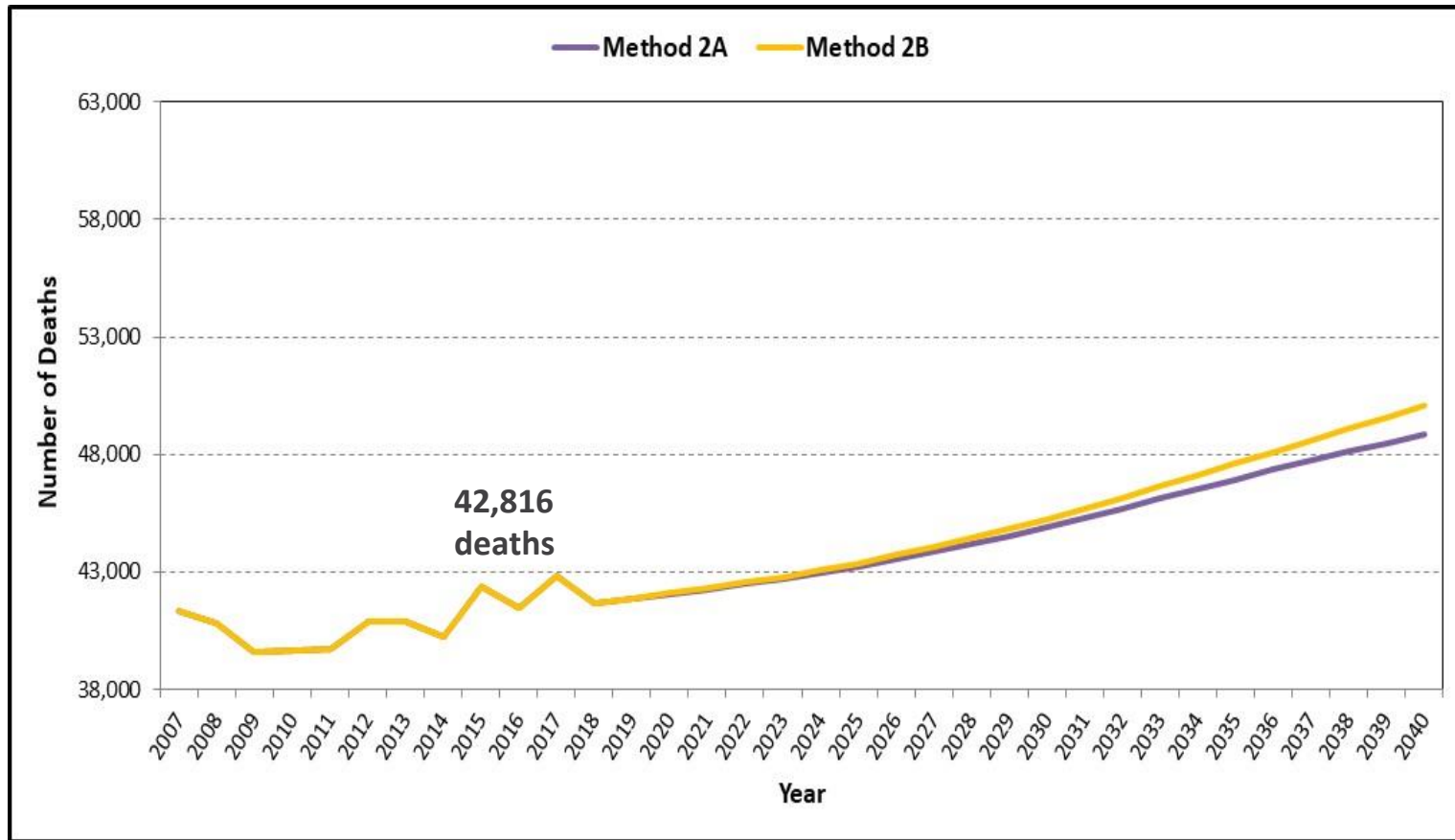
Diseases associated with palliative care needs

Ref: Murtagh et al. (2014). How many people need palliative care. *Palliative Medicine*. 28(1) 49-58

Results: All deaths per year in Scotland



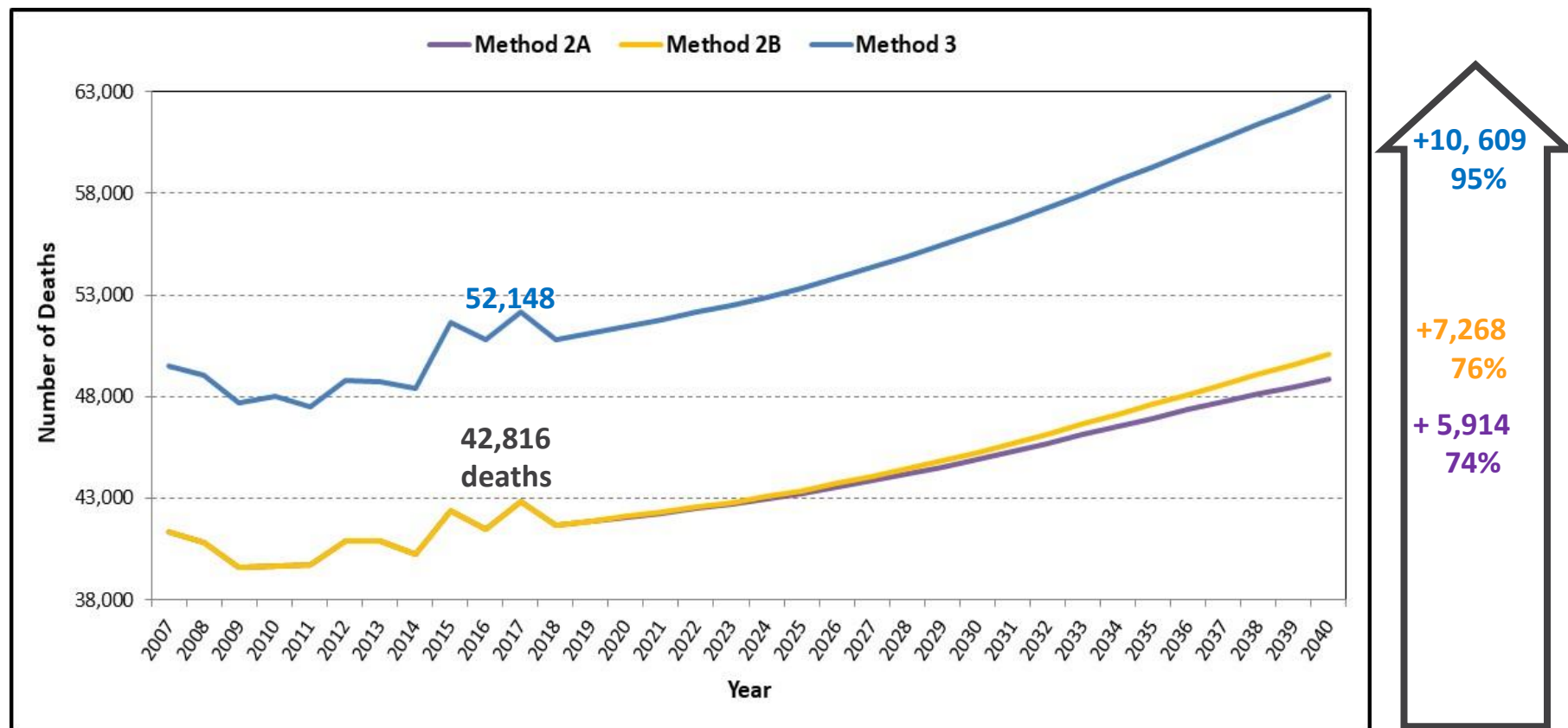
Results: Number of people with palliative care needs (based on main cause of death)



+7,268
+ 5,914

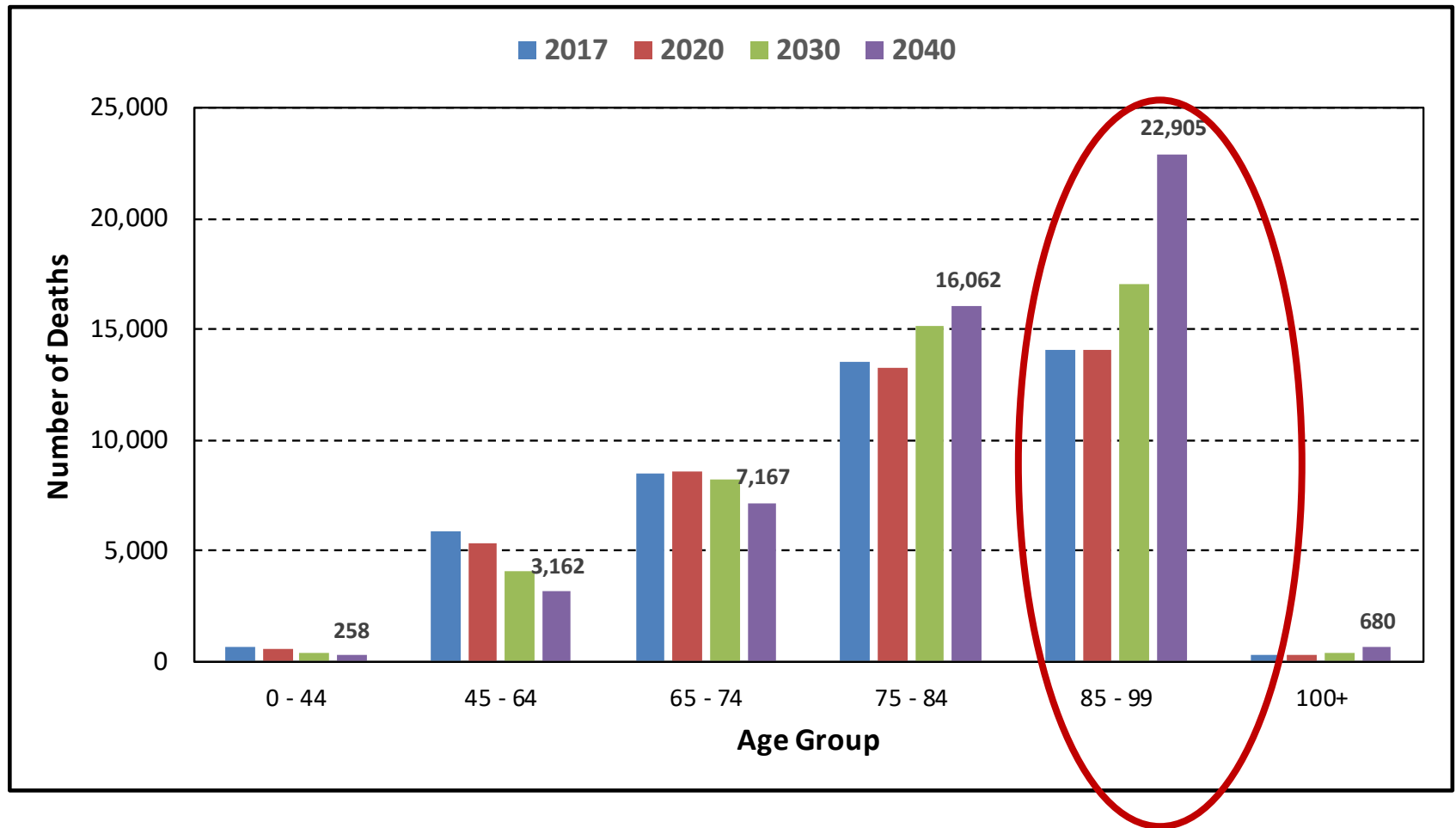
- Actual and projected deaths based on ICD-10 codes – assuming current trends continue
- Actual and projected deaths based on ICD-10 codes – constant proportion

Results: Number of people with palliative care needs (based on main and contributory cause of death)

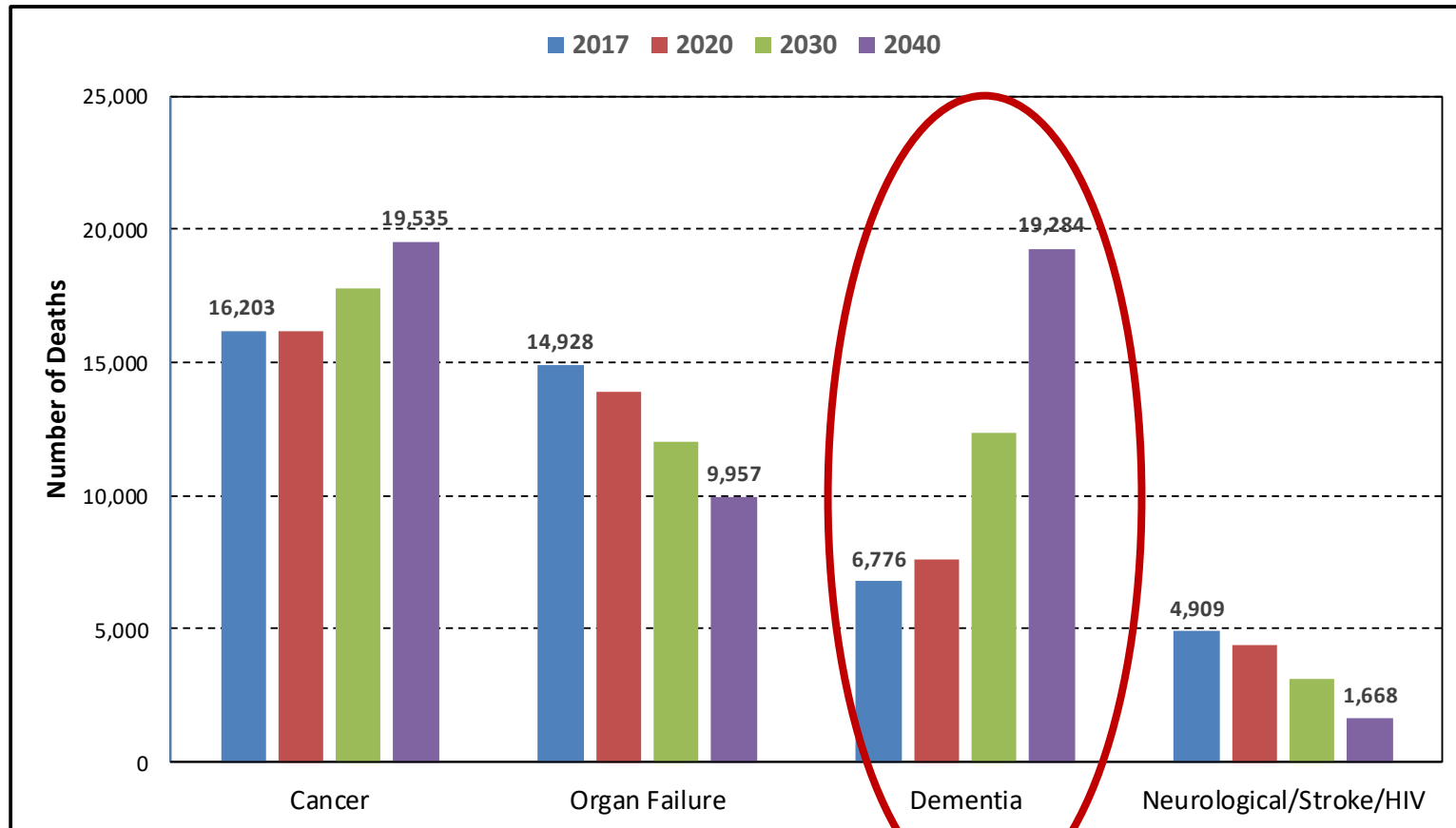


- Actual and projected deaths based on ICD-10 codes (main or contributory) – assuming current trends continue
- Actual and projected deaths based on ICD-10 codes (main) – assuming current trends continue
- Actual and projected deaths based on ICD-10 codes (main) – constant proportion

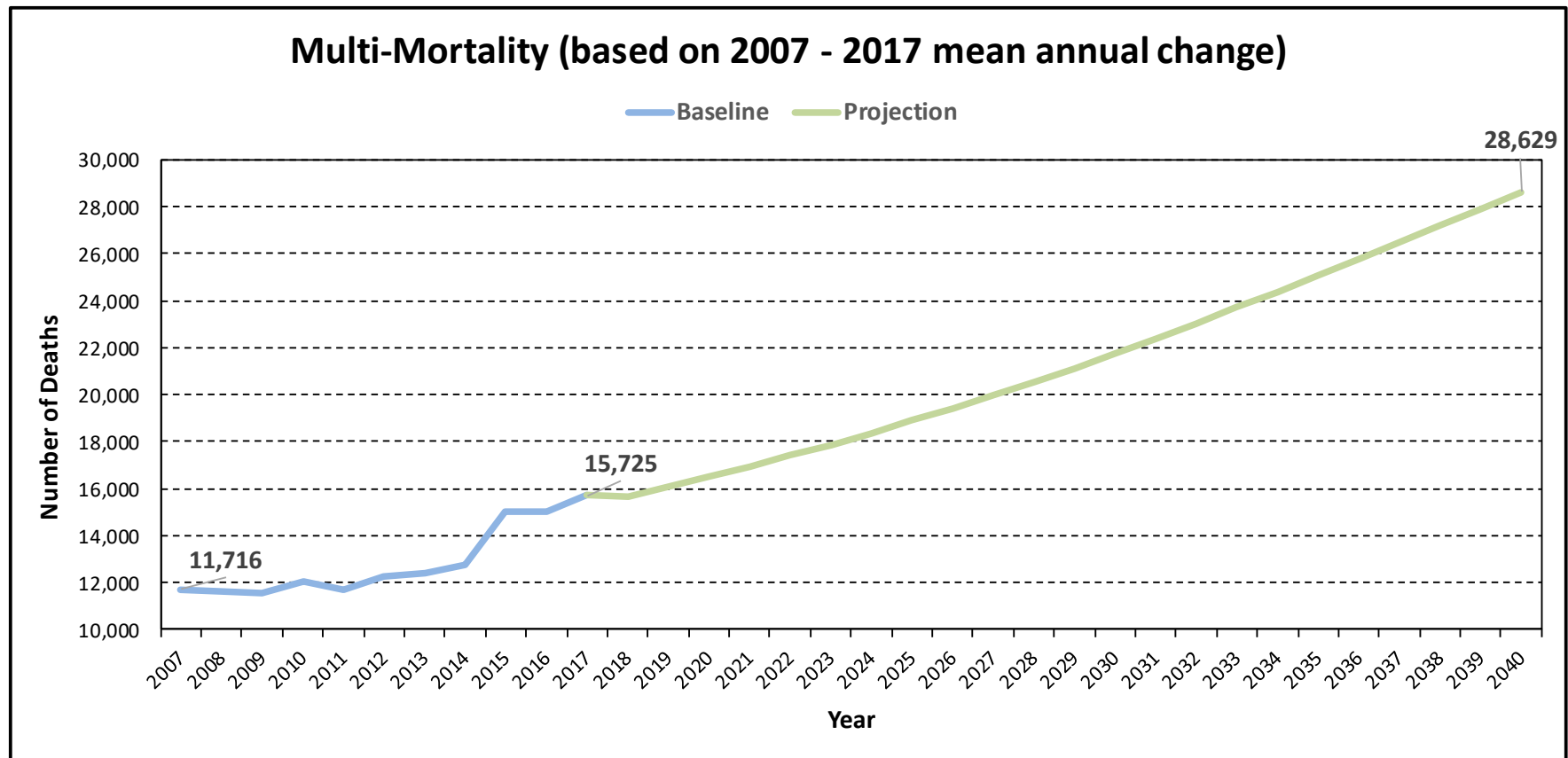
Results: Projected palliative care need by age



Projected palliative care need by illness group (main cause)



Results: Projected palliative care need – multiple disease groups (main or contributory cause of death)



Summary & Conclusions

1. Deaths in Scotland in 2040 are projected to increase by **14%** compared with 2017.
2. By 2040, in Scotland between 6,000 and 10,500 *more* people are projected to die of a disease associated with palliative care need (74-95% of all deaths)
3. People aged 85 and over will account for nearly half of all those requiring palliative care.
4. Cancer and dementia are projected to increase significantly as main causes of death.
5. Multi-mortality or death as a result of diseases from two or more disease groups will increase to 43% of all deaths.

Current models of palliative care service provision need to adapt to meet increased need, in particular amongst those aged 85 and over, most of whom experience multi-morbidity, suggesting growing complexity of need in the years ahead.

Thank you

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