

Bomb blast victims:
**Longitudinal
study on the healthcare
burden**

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Aim

What is the **burden** on secondary care for victims of explosions?

- How long does it last?
- How does it vary over time?

Are **domestic accidents** comparable to **assaults with explosive devices**?

- Higher number of cases
- Similar injuries

Methods

- HES dataset of **national** data of all **hospital interactions** from 2009 to 2019
- All patients from **2011 to 2013**
- **Matched cohort** without event based on average and range of comorbidity index
- Followed for **5 years** following the event
- What is the burden on **secondary care**?

Bomb blast cohorts



Domestic accident



Assault

Bomb blast cohorts

1,333

Domestic accident

14.8m

167

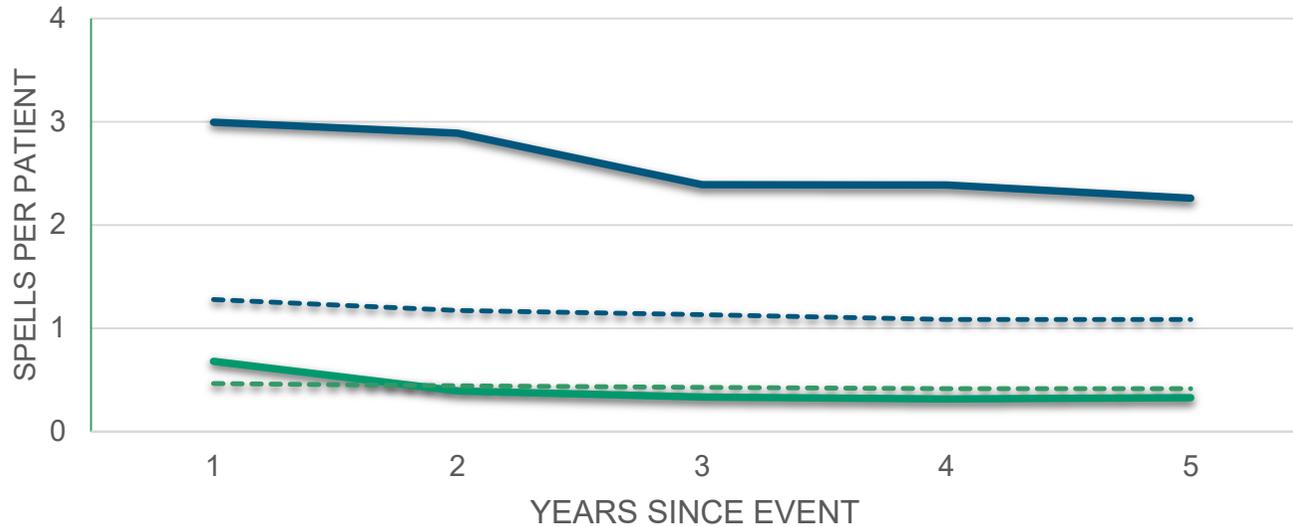
Assault

0.5m

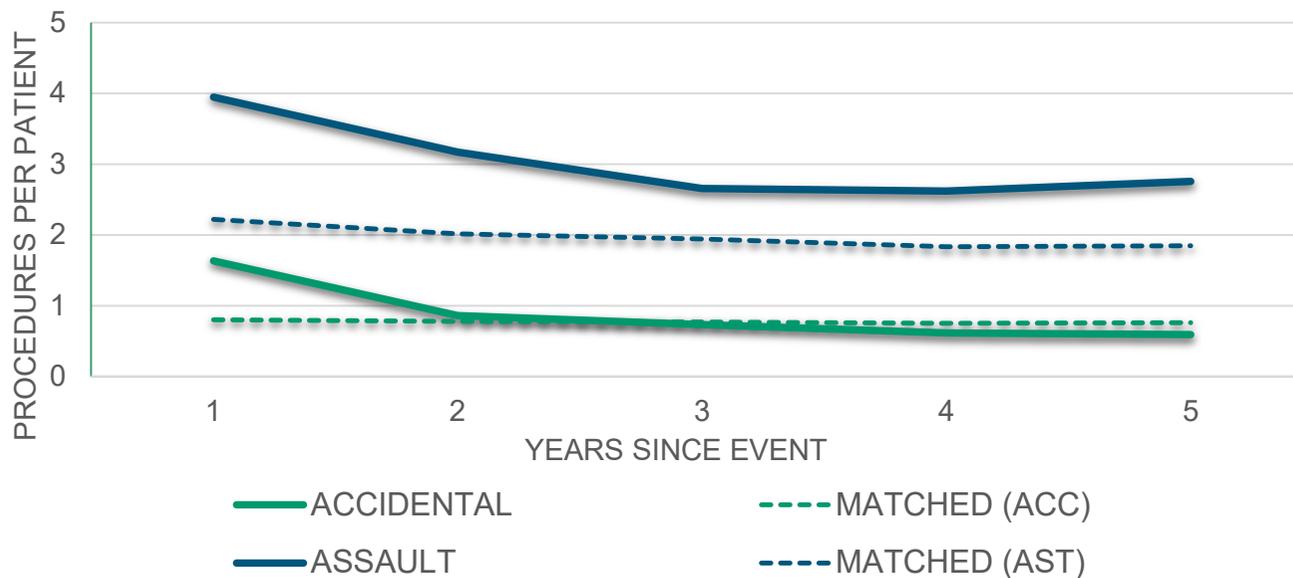
Matched population

Inpatient spells and procedures

SPELLS



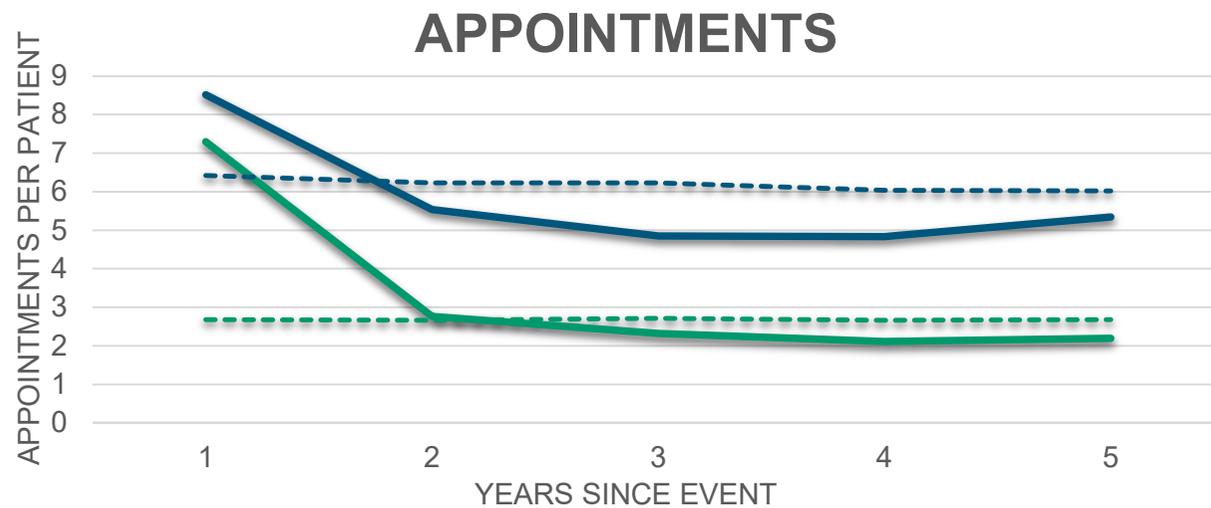
PROCEDURES



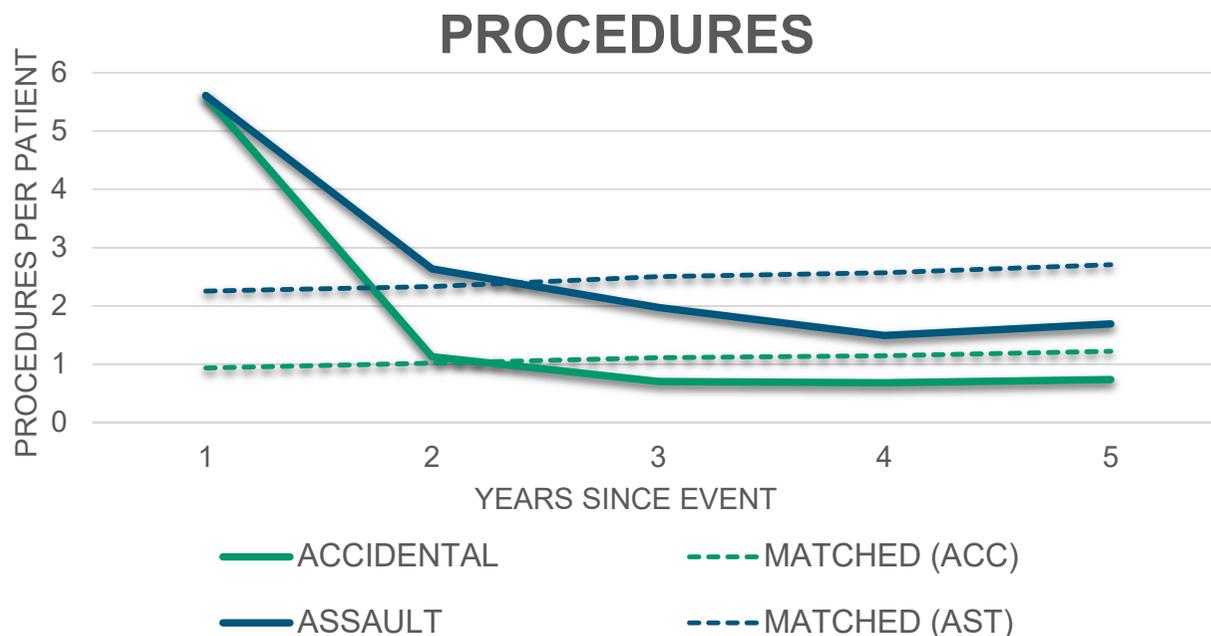
Both groups resulted in **higher inpatient spells and procedures** in the first year after the event

The **assault group** resulted in increased inpatient burden over all **5 years** compared to the matched population

Outpatient appointments and procedures



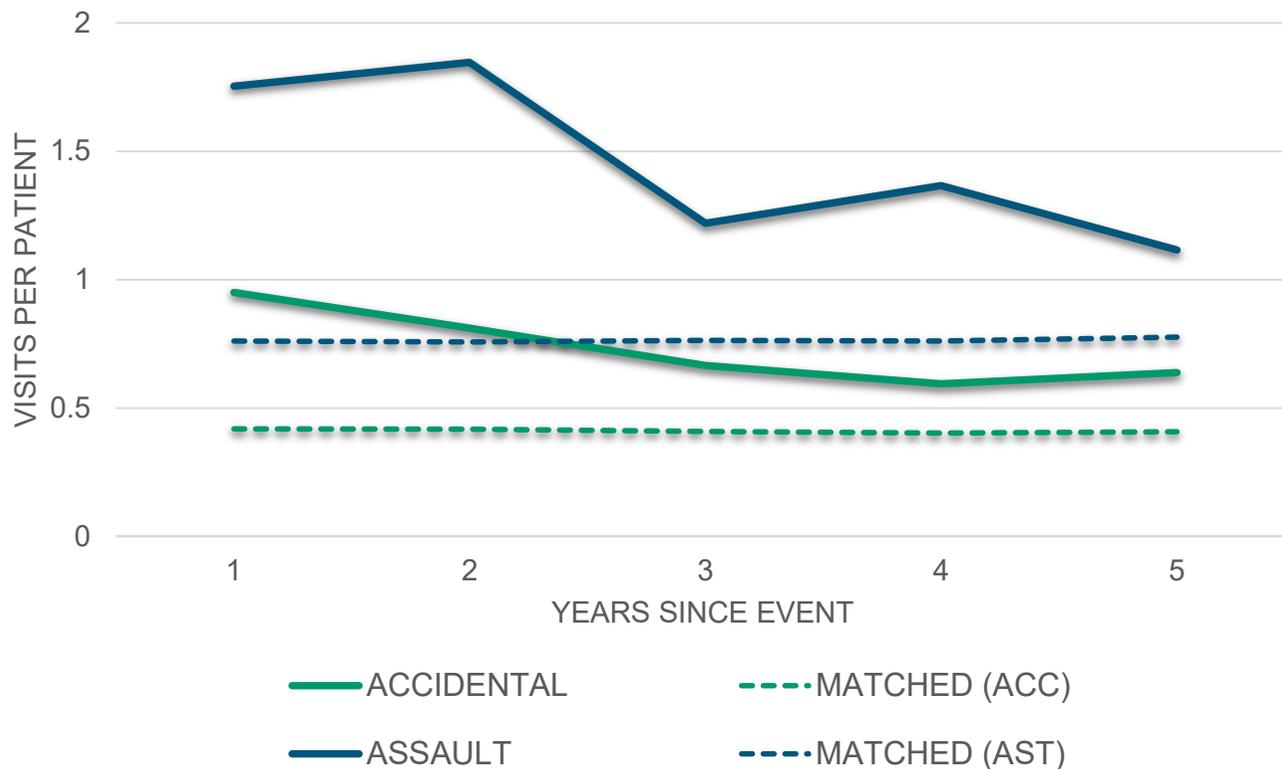
Both groups resulted in **higher outpatient spells and procedures** in the first year after the event



Both groups then resulted in a **lower outpatient burden** over the next 4 years compared to the matched population

A&E visits

A&E VISITS

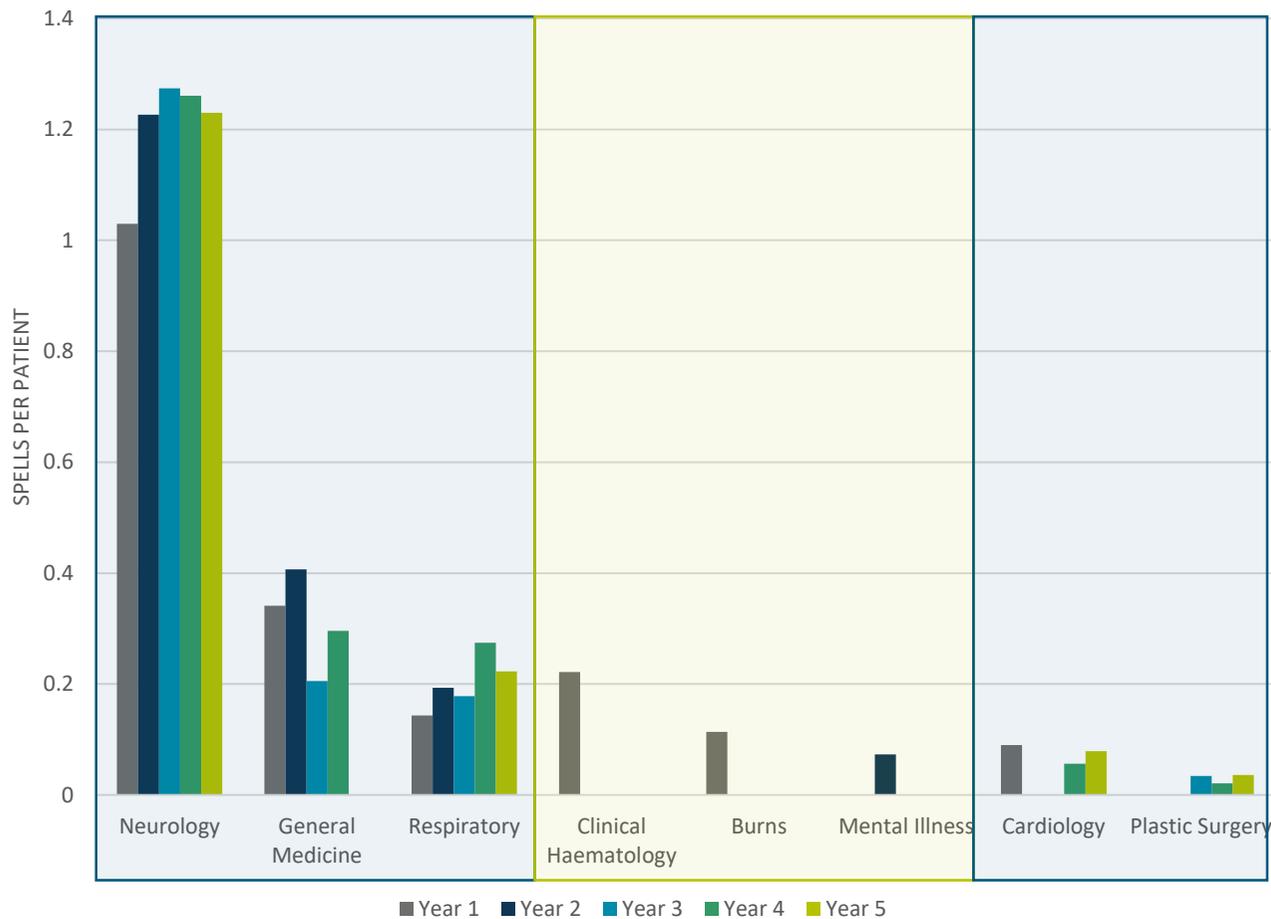


Both groups resulted in **higher A&E visits** over all 5 years compared to their matched populations

The increase was **higher** for the **assault** group

Assault cohort – treatment specialties

SPELLS IN EACH TREATMENT SPECIALITY



Constant high spells in neurology, general medicine and respiratory

Clinical haematology, burns, mental illness and cardiology in **1st/2nd** year

Cardiology and plastic surgery in **4th/5th** year since event

Discussion

There is a greater impact after **intended assault** compared to accidental explosions especially on inpatient care

This may be due to the **intent** to cause harm resulting in worse physical and mental injury

Aid should be provided over a **longer period** of time to cover this increased burden

Next steps will be to include the **mental health data set** in the analysis

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