# Cardiovascular medication and health service use in individuals with cancer

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### **BACKGROUND & OBJECTIVE**

- ➤ Cancer and cardiovascular disease (CVD) frequently coexist but little is known about CVD medication use in cancer survivors.
- ➤ <u>Objective:</u> To compare CVD medication and medical service use between individuals with and without cancer.

#### **METHODS**

- Data source: Australian National Health Survey 2020-21 linked with medication dispensing, medical services and death registry data
- > Study design: Retrospective cohort study
- > Population: Adults aged ≥ 25 years (cancer versus non-cancer groups)
- > Outcomes: 1-year CVD medication & medical service use from date of survey completion
- > Statistical analysis: (i) Logistic regression comparing patterns of CVD medication use; (ii) negative binomial regression comparing patterns of medical service utilisation

#### **RESULTS**

Cohort Characteristics, n (%)	Cancer, n= 1,828	Non-cancer, n= 7,505
Sex		
Female	1,009 (55)	4,057 (54)
Age group		
25-34 (in years)	19 (1)	1,340 (18)
35-49	200 (11)	2,516 (33)
50-64	567 (31)	2,097 (28)
≥65	1,042 (57)	1,552 (21)
Presence of CVD		
Yes	564 (31)	971 (13)
Number of other health conditions		
0	276 (15)	2,079 (28)
1-2	955 (52)	3,927 (52)
≥3	597 (33)	1,502 (20)

Cancer survivors were more likely to be:



& were more likely to have:





- No difference in adjusted use of CVD medications between cancer vs. non-cancer
- Increased rate of health service use in those with CVD and cancer.





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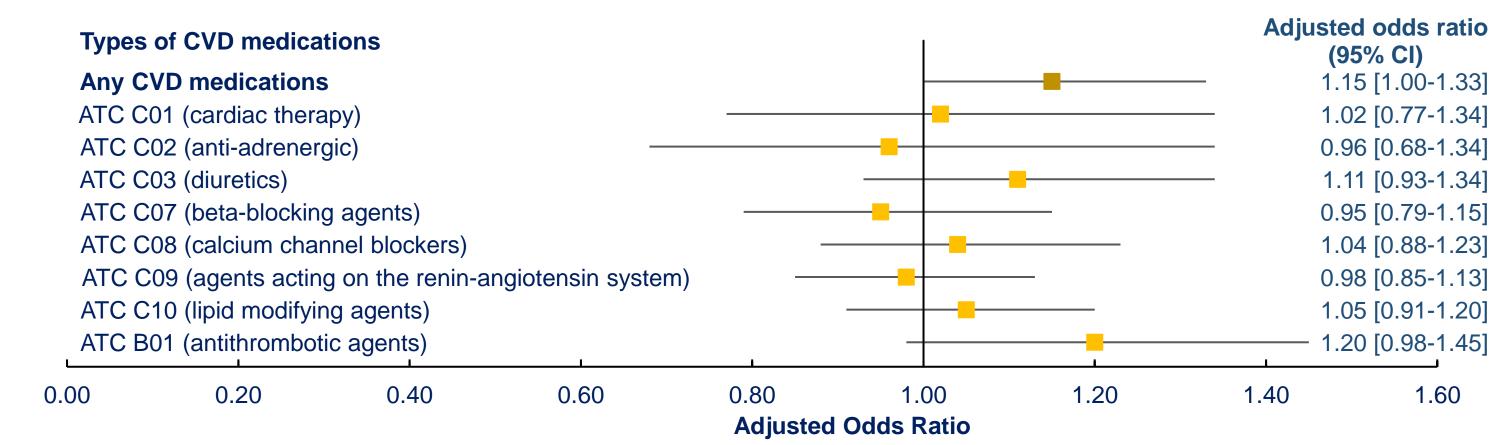


Figure 1: The odds of dispensing of CVD medications between people with and without cancer (reference category)

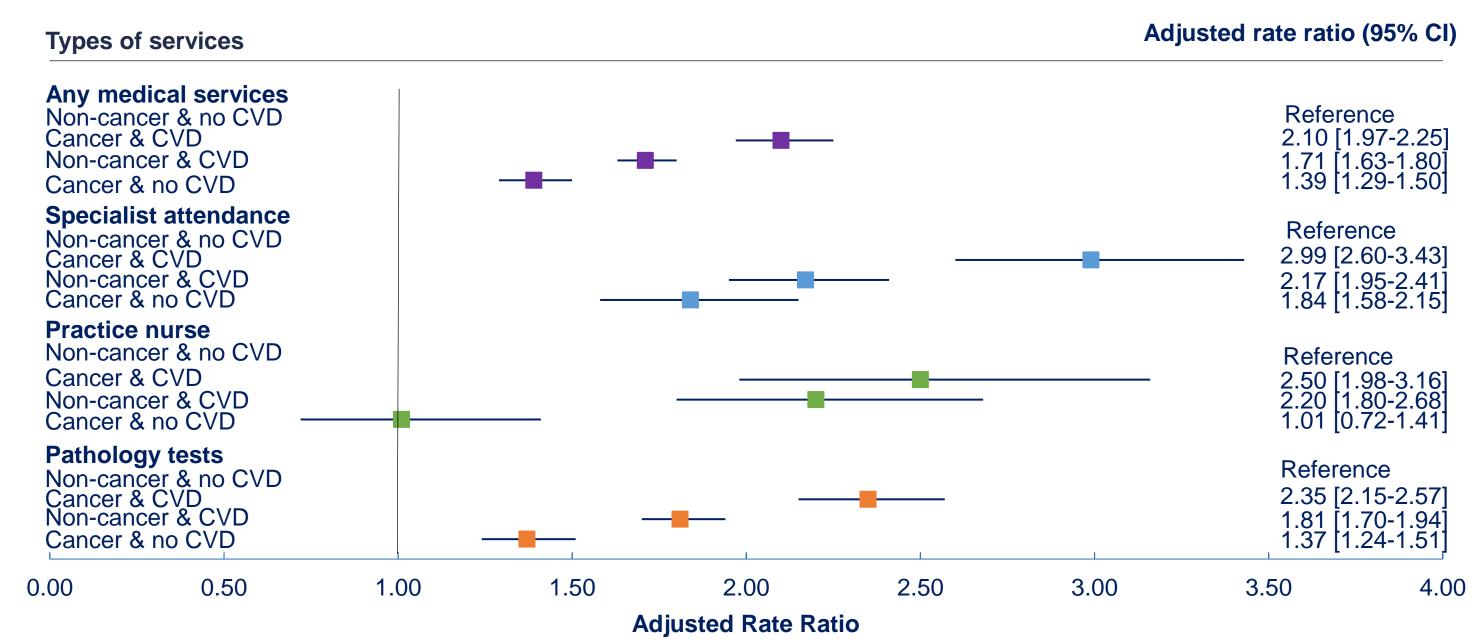


Figure 2: Medical service use by cancer and CVD status

## CONCLUSIONS

- > Despite having a higher prevalence of CVD, and higher health service utilisation, the overall use of CVD medication did not differ between people with and without cancer.
- > Cancer survivors with CVD had a higher rate of medical services use compared with people with either condition alone or neither condition.
- > Further research should explore the underlying reasons behind these data to inform strategies to mitigate the detrimental effects of comorbid CVD in cancer.