

Impact of urological cancer, by stage at diagnosis

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Method

- Combine registry, BAUS and HES data for England
- Define a cohort, people diagnosed in England 2001-2003 with Prostate, Bladder, or Kidney Cancer (C61, C67, C64)
- Examine 3 years HES data either side of time of diagnosis

Working with HES data

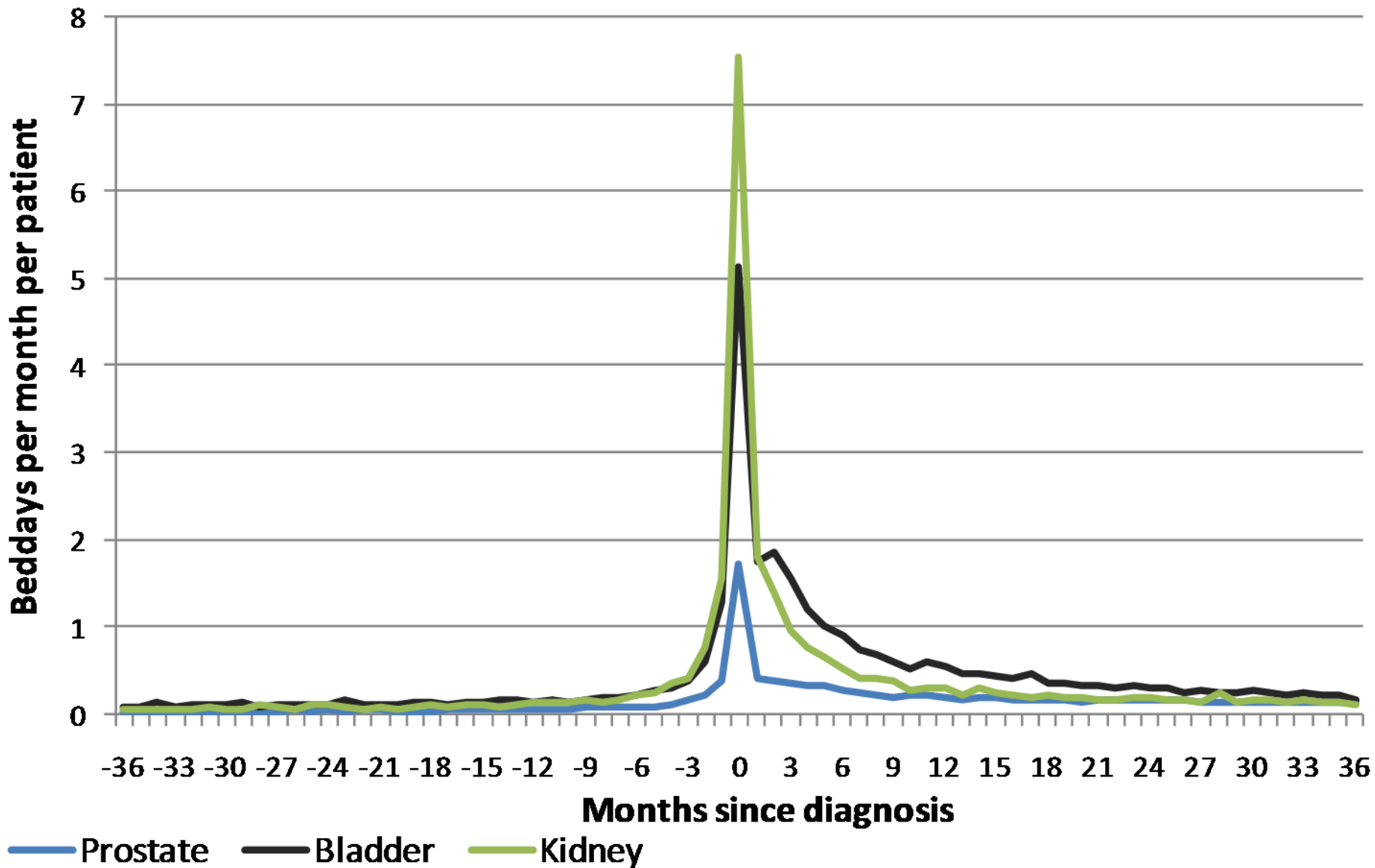
- 2007/08 HES clinical coding data 16.5% inaccurate ¹
 - “60% of episodes had no errors”
- How do we measure workload?
 - bed-days *vs.*
 - episodes *vs.*
 - procedures *vs.*
 - spells of care

1: PbR Data Assurance Framework 2007/08, Audit Commission

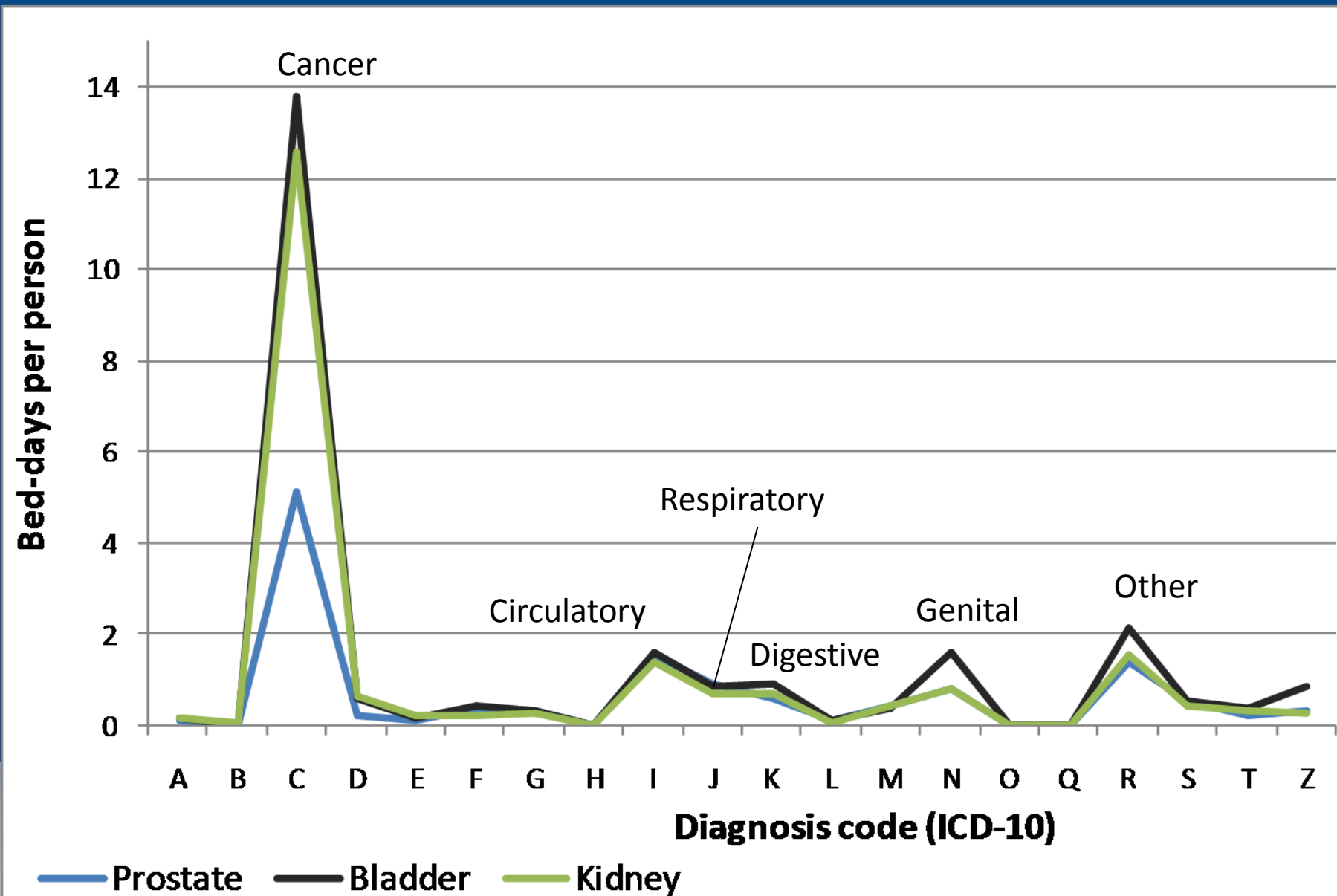
Patient cohort

- 122 000 people
- 71% with an in-patient HES record
- Of in-patients, 89% male, 11% female
- Of in-patients, 15% aged <60, 29% aged 60-69, 56% aged 70+
- Overall 19% staged

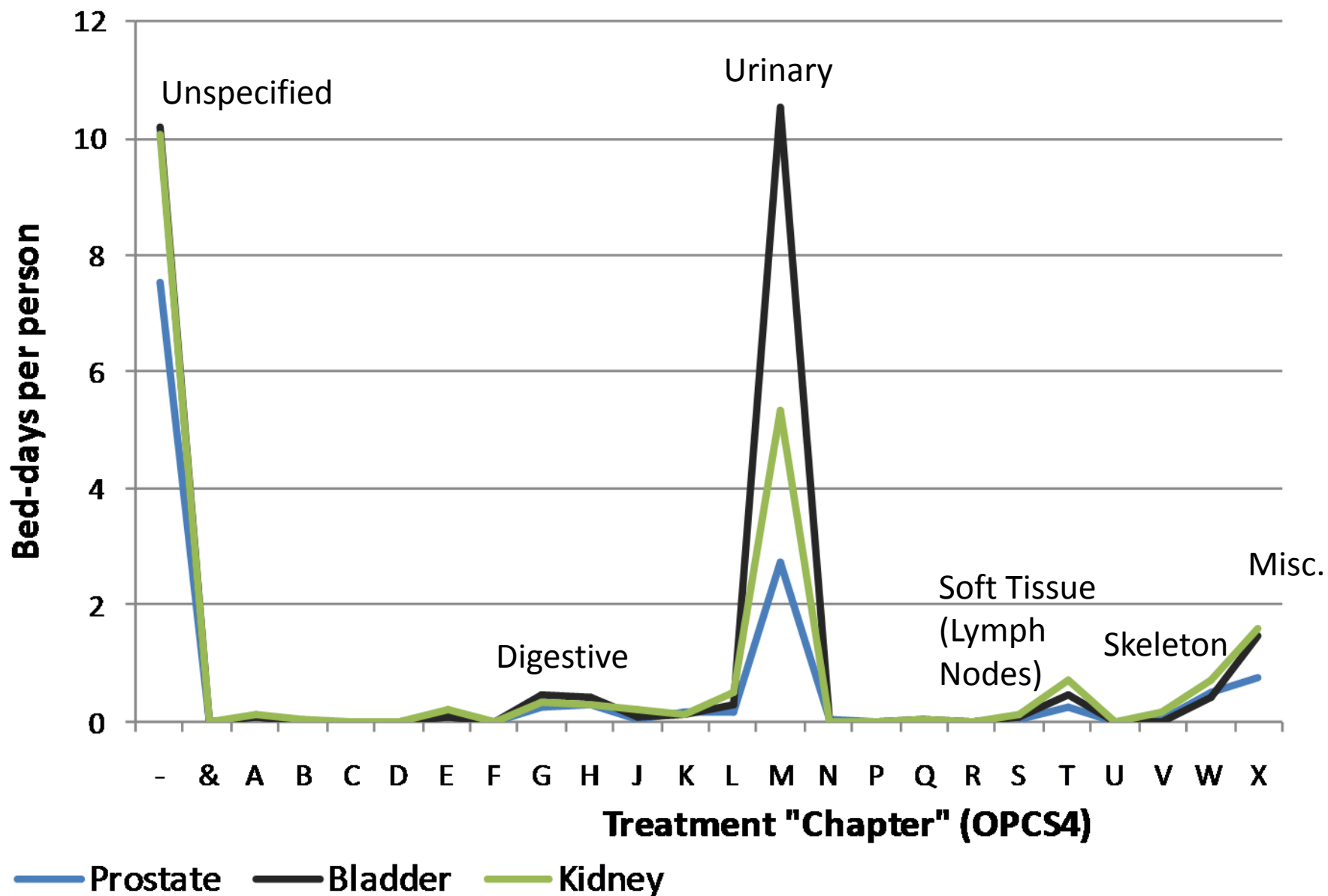
Bed-days per month by time relative to diagnosis



Total bed-days by broad diagnosis category



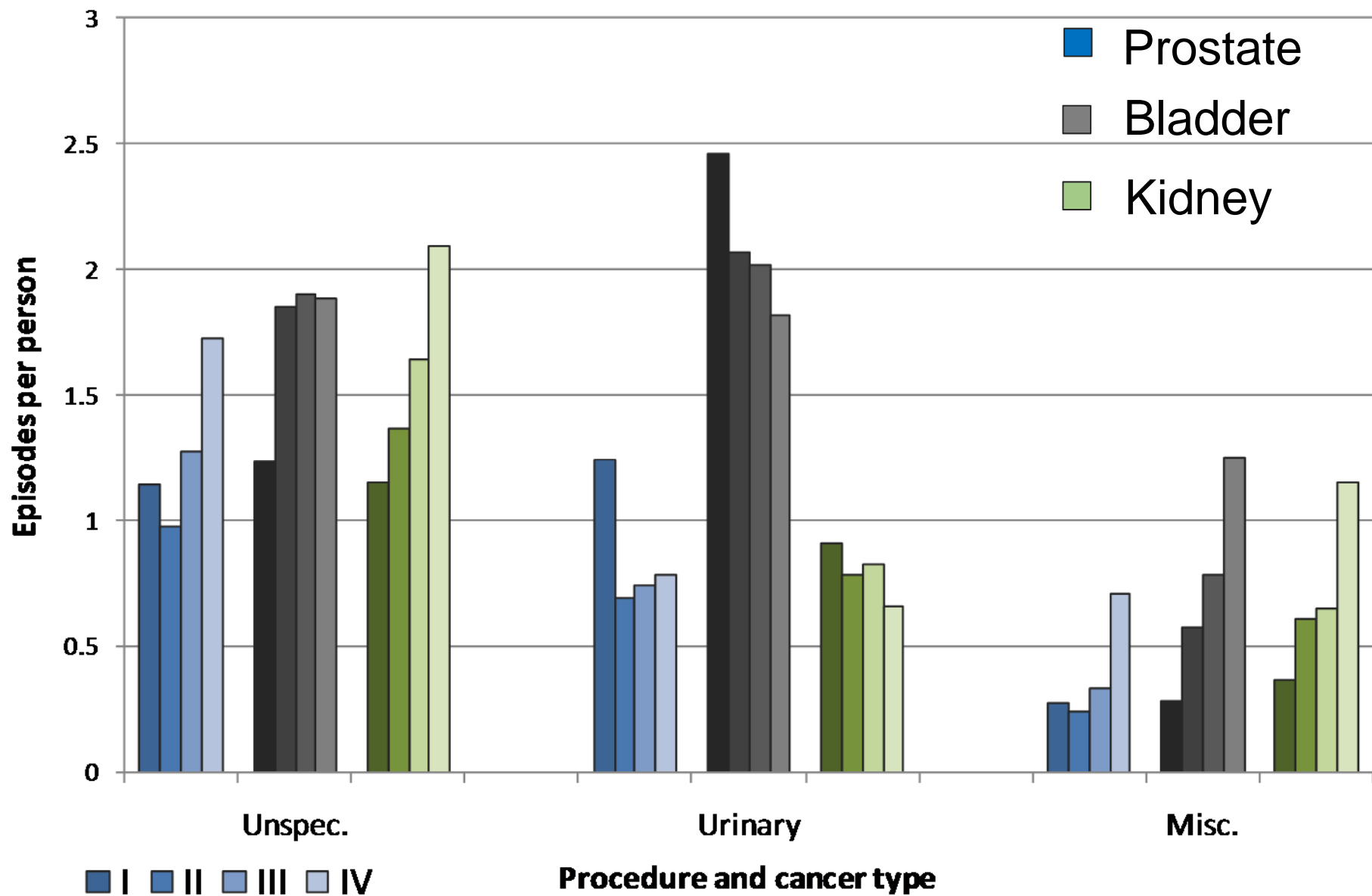
Total bed-days by broad treatment category



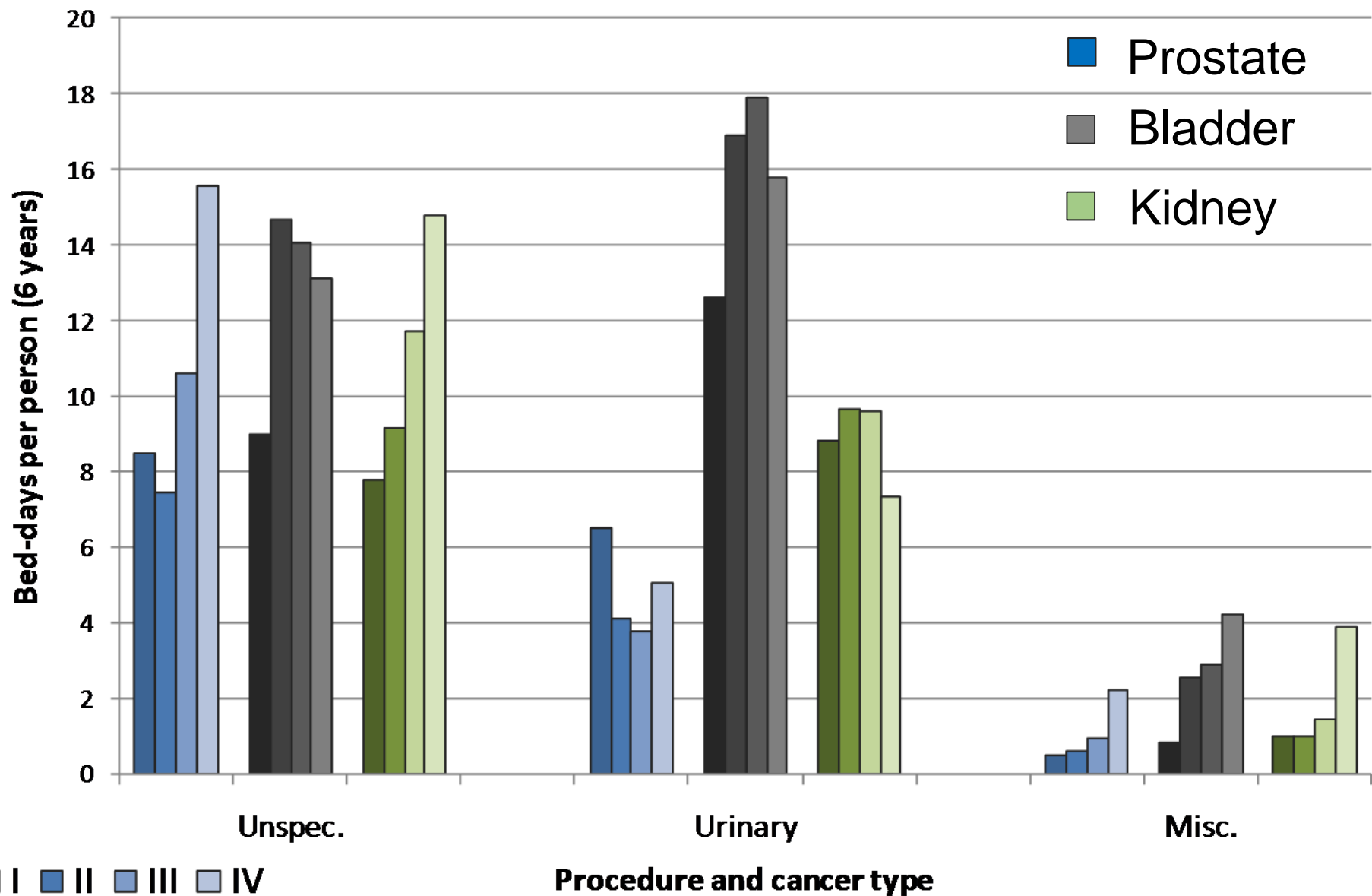
Cancer specific vs. Non-cancer care

- Look at circulatory, digestive and respiratory admissions...
- Little variation by cancer type or by stage
- Non-cancer care perhaps 3-4 bed-days total
- So cancer related care roughly $\times 10$ impact

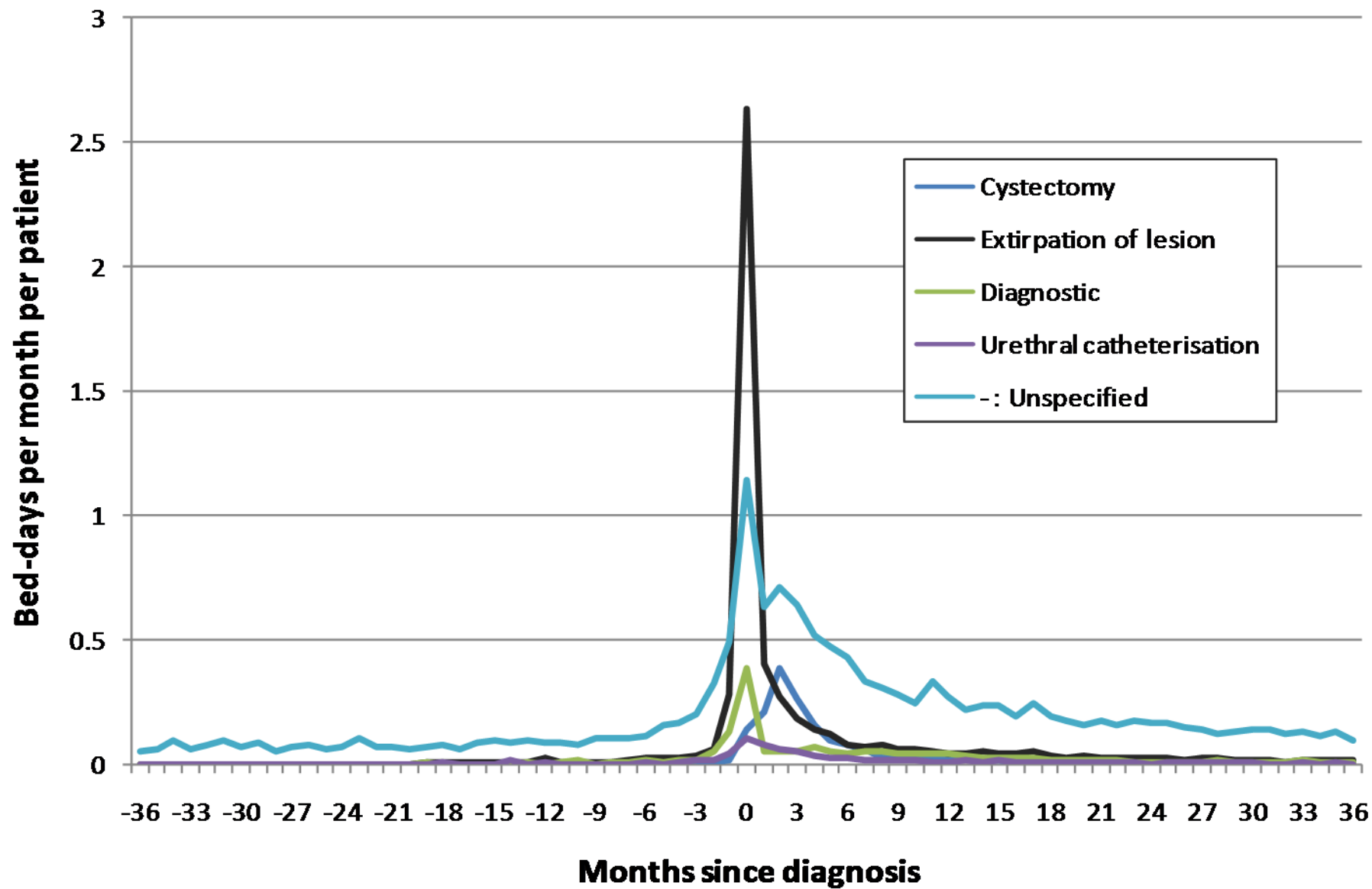
Total Episodes by stage and cancer type



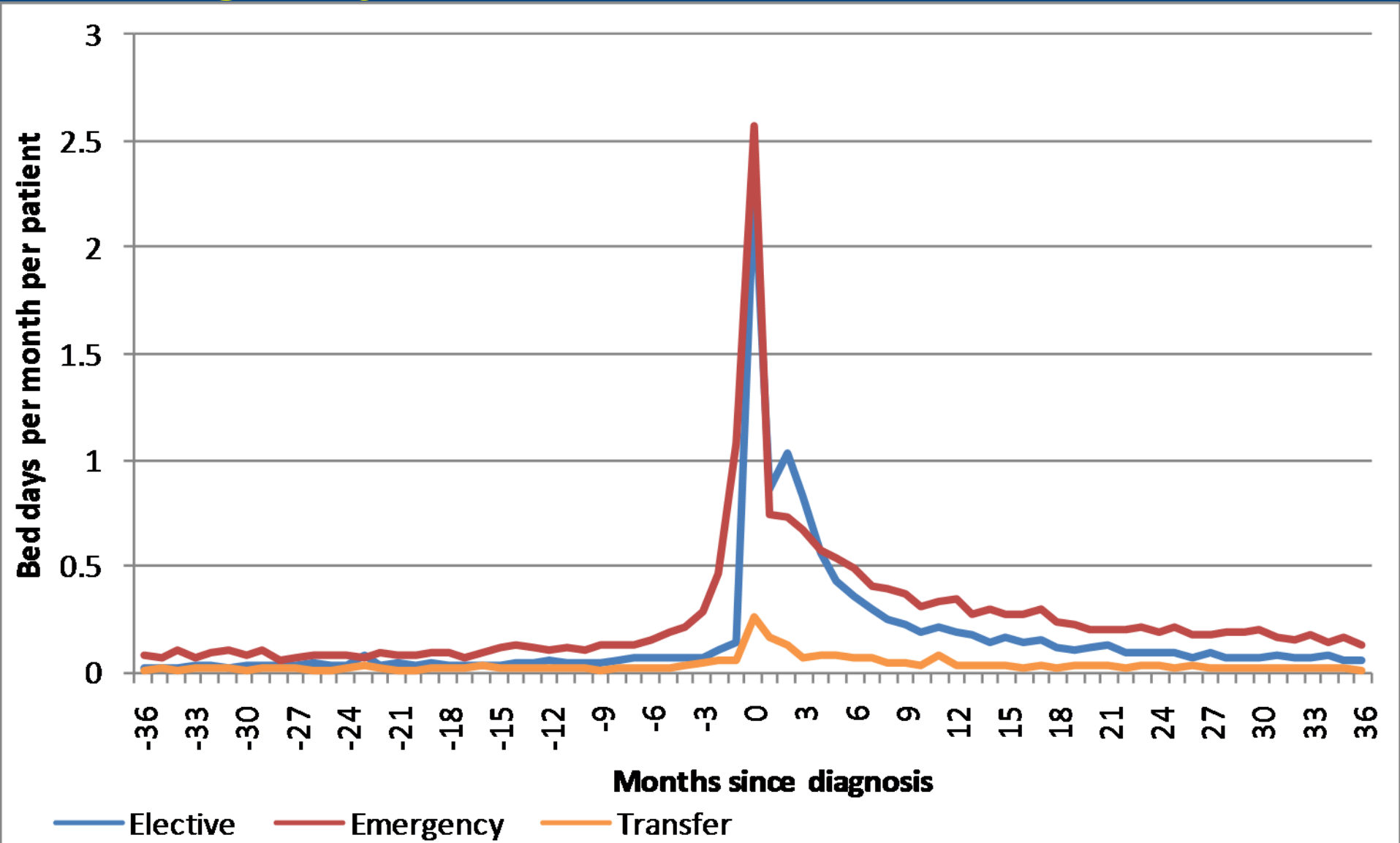
Total bed-days by stage and cancer type



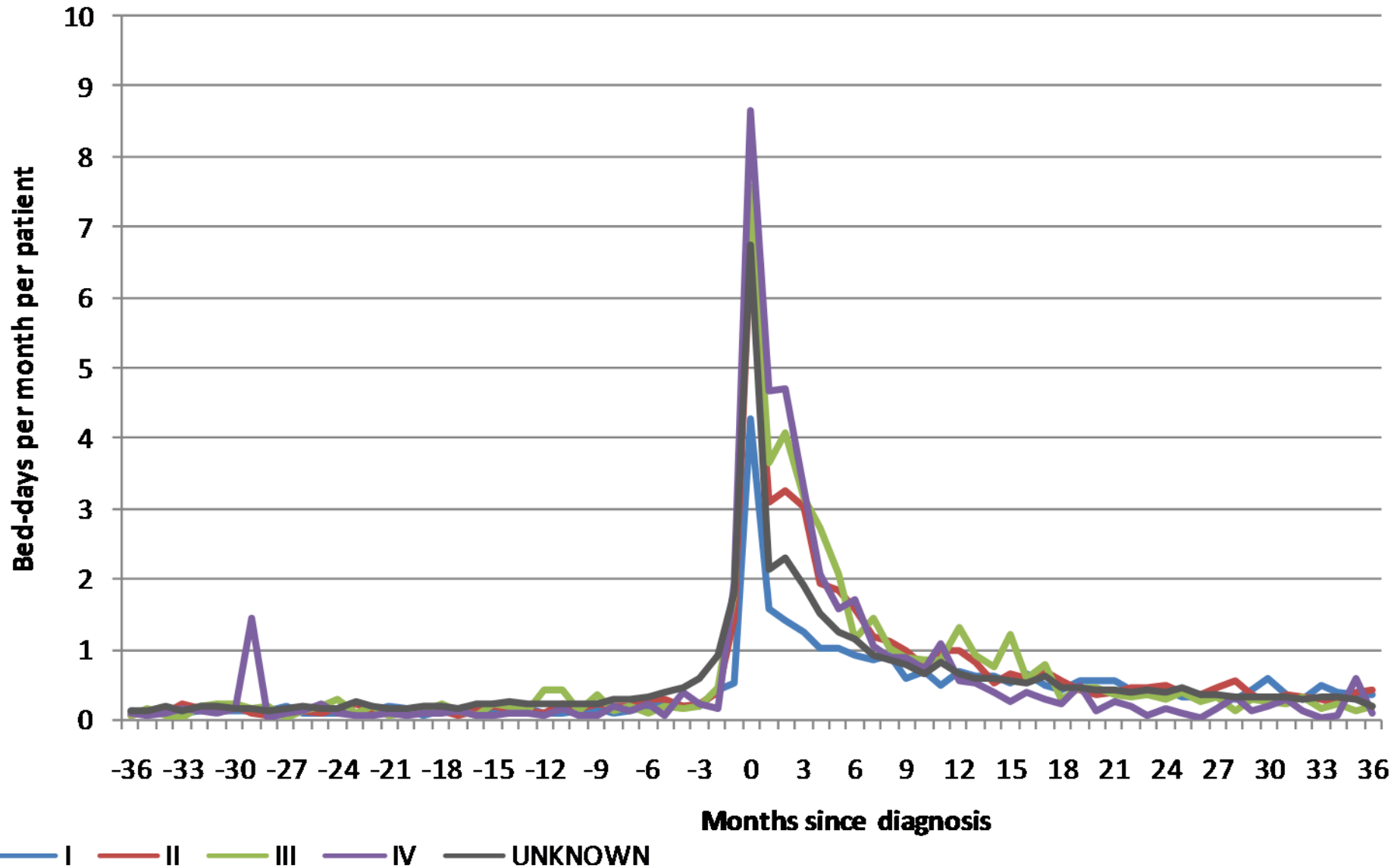
Bed-days per month: bladder cancer procedures



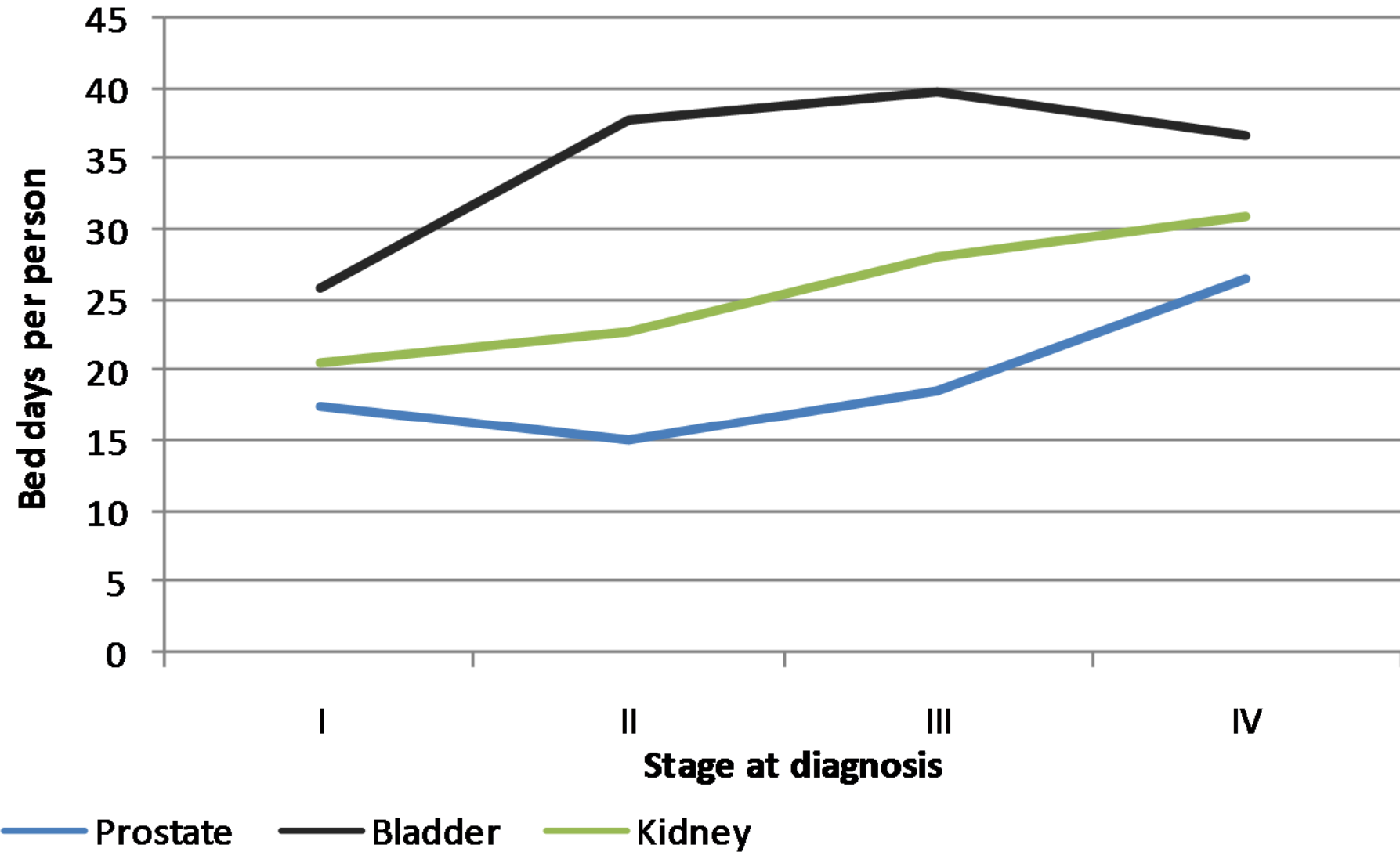
Bed-days per month: Bladder cancer emergency vs. elective admissions



Bed-days: Bladder cancer breakdown by stage



Total bed-days: quantifying workload by stage



Summary

- Substantial difference in workload by cancer type
- ...and by stage.
- Cancer care roughly $\times 10$ non cancer care.
- Emergency and elective care roughly equal.
- But everything depends how you measure it...
- HES is complex.
- We need to put these tools in frontline care.

Next steps

- Radiotherapy data (in progress)
- Staging data
- Co-morbidity data
- Outpatient HES data
- Linking it all together
- Getting it all to people on the front line

Thank you

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