Abstract 372: Societal benefits of surrogate outcomes to support reimbursement decisions: the case of prostate cancer

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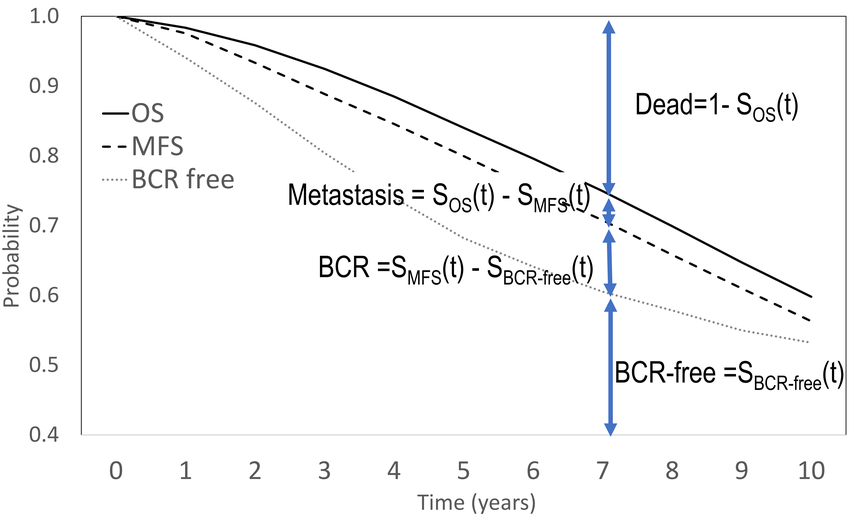
Background/Methods:

- Relying on overall survival (OS) endpoints delays reimbursement decision making.
- The ICECaP study demonstrated that 5yr metastasis free survival (MFS) is a strong surrogate of (OS) in localised prostate cancer (LPC).
- We modelled the benefits to society associated with earlier funding decisions supported by economic evaluations based on MFS.

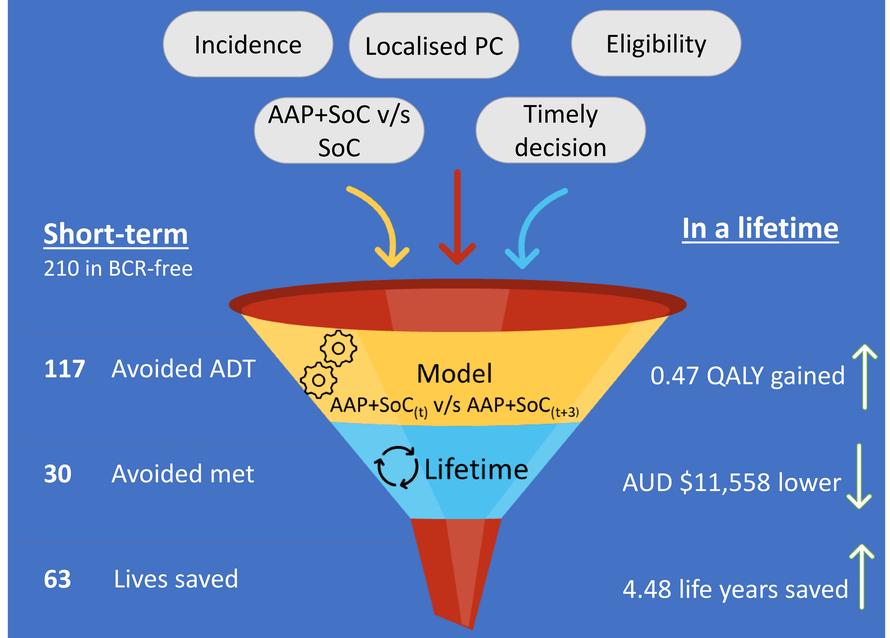
Methods:

- A 4-health state partitioned survival model comparing Abiraterone + SoC (standard of care) vs SoC.
- ICECaP data extrapolated to model benefits and costs over a lifetime, quality of life from literature.



Results:

- The benefits and cost to society of making a public subsidy decision now on the basis of MFS as a surrogate of OS or delaying for 3 years to wait for OS data were:



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Conclusions:

- Using **MFS as a surrogate for OS** in the reimbursement decision-making process for new interventions for localised prostate cancer (LPC). is likely to produce **benefits to society** in terms of improved short and long-term patient relevant outcomes and **reduced health system costs.**

Future Directions for Research:

- Metastasis definition (Ga-PSMA PET/CT vs conventional imagining)
- Implementation of surrogate outcomes in other models (i.e., Markov or multistate).
- Conjoint surrogacy relationship (BCR to predict metastasis in LPC).

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