Economic Evaluation of Overdiagnosis in Population-based Screening

**NO Trade-off**

- **Harm**
  - Five overdiagnosed cases (not) to avert one breast cancer (BC) death
  - Miss X cases (losing chance) to overt one BC death (Harm from false negative)

- **Benefit**
  - Y true cases to avert one BC death
  - The majority of negative cases to avert one death

**NO Time Dimension**

- Overdiagnosis
- Different time horizons
- Disease Onset
- New Tool
- Old Tool
- Clinical Phase
- Death

Reassurance

(Often been neglected)
Summary

• Economic evaluation with high quality of health economic decision model for dealing with over-diagnosis in population-based cancer screening is urgently needed.

• Economic evaluation for precision population-based cancer screening is strongly recommended to reach value-based health care.