

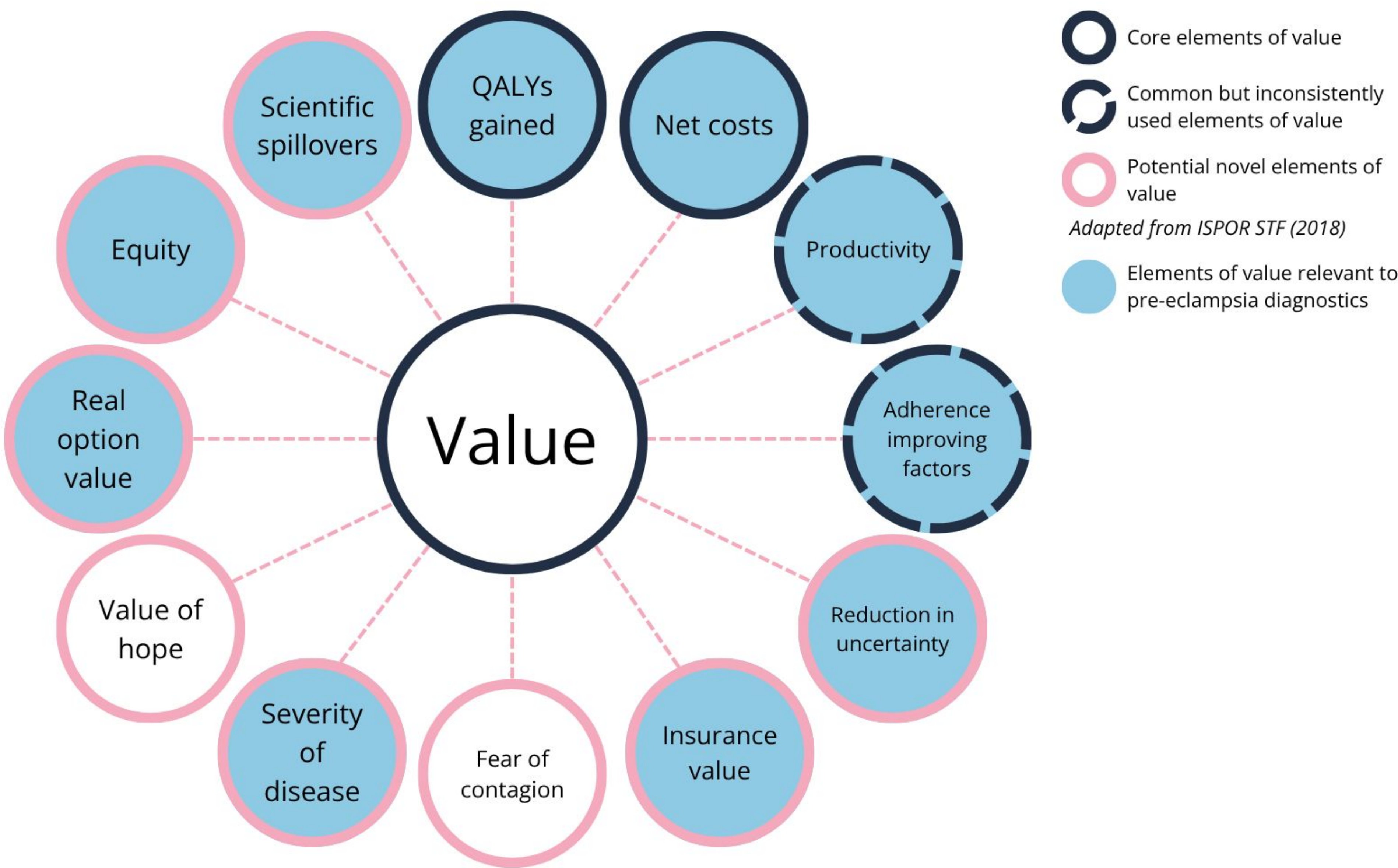
The unique value of detecting pre-eclampsia: MT42 comparing health economic analyses of novel diagnostics with the ISPOR Value Flower

R. CALLAHAN¹ and G. OBERY²

¹Prova Health, Granger, IN, USA; ²Prova Health, London, UK

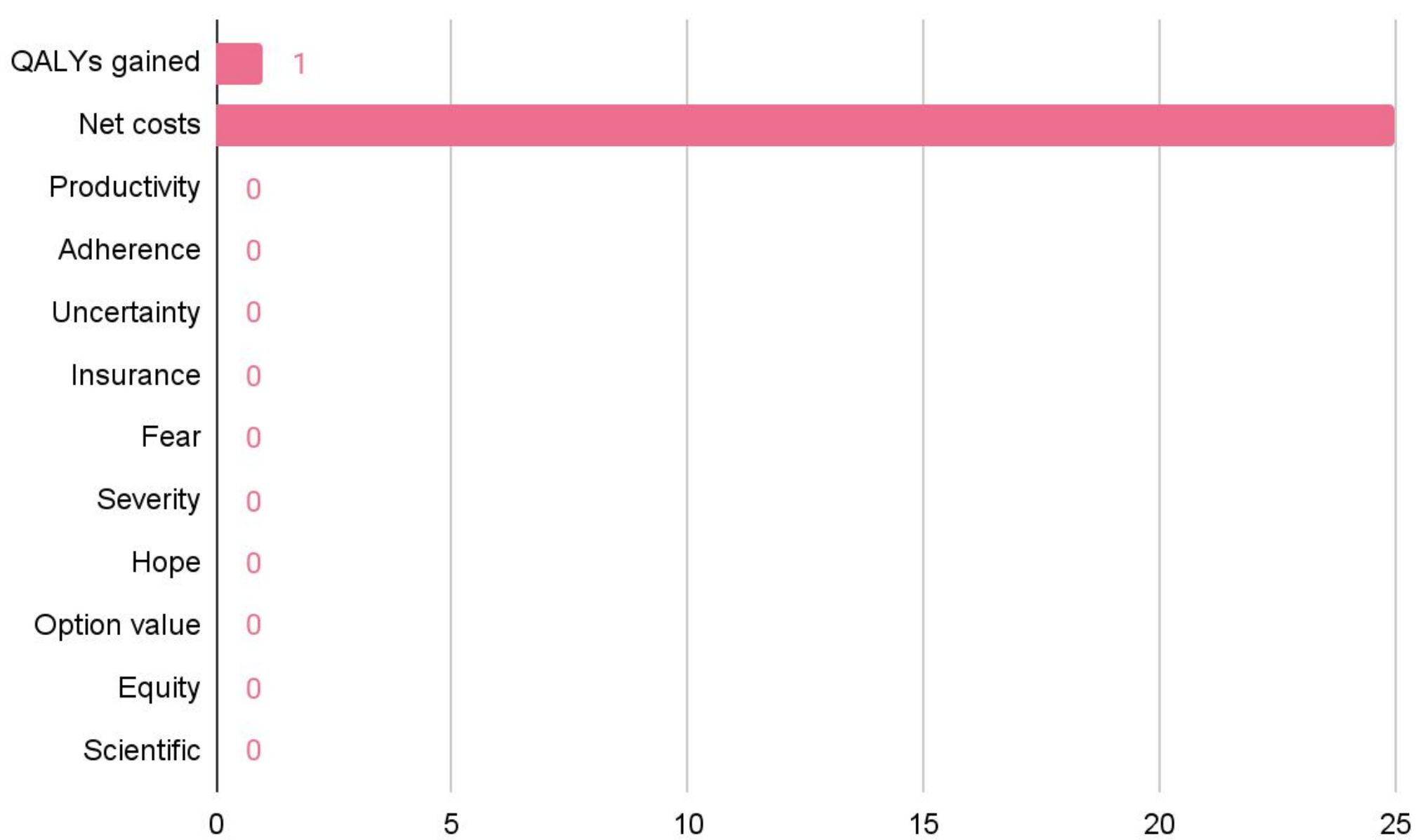
Problem: Pre-eclampsia is a significant cause of fetal and maternal morbidity and mortality. Novel diagnostics to detect pre-eclampsia early in pregnancy offer substantial clinical and economic benefits and have been approved in several worldwide markets, but coverage and adoption remain uneven.

Of the 10+ elements of value relevant to pre-eclampsia diagnostics...

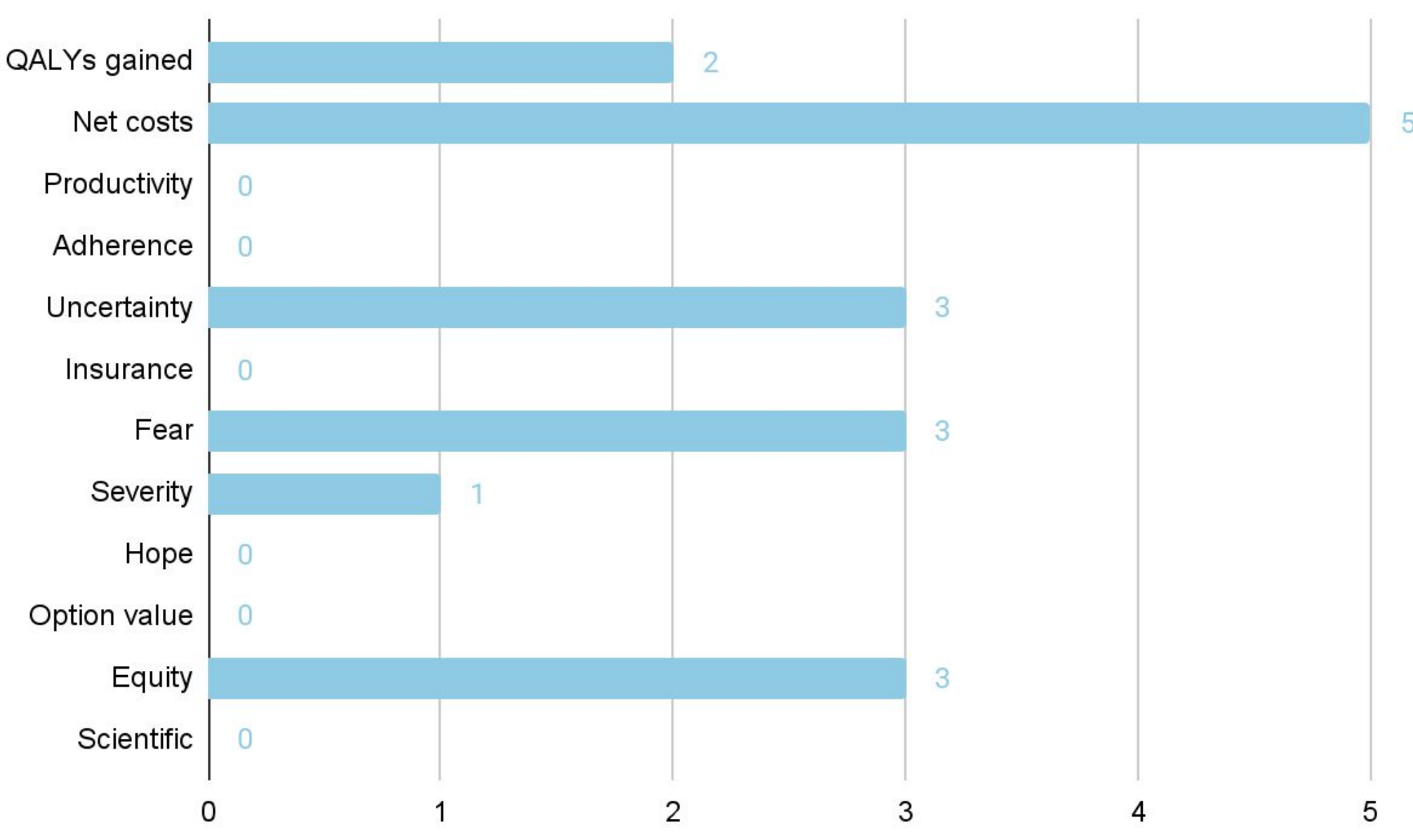


...published health economic studies focus almost exclusively on 1 (Net costs), with HTA assessments including on average 2.6

Focus of economic analyses (n=24)



Focus of HTA assessments (n=5)



Methods: Searched PubMed, International HTA Database, and Google Scholar to identify Economic Analyses (n=24) and HTA Assessments (n=5) of PIGF diagnostic technologies; Reviewed methodology and results of all included studies to determine scope of analysis, coded each source for inclusion of ISPOR Value Flower elements

Discussion - barriers to a more holistic conception of value and opportunities for further work

- **Reduction in uncertainty** is a major source of value seen by HTA authorities. What additional evidence can be brought to bear on anxiety in pregnancy?
- Common protocol for pre-eclampsia prediction is **aspirin**: what are the advantages and disadvantages of deploying molecular diagnostics to have a better understanding of risk vs. standard of care?
- Pre-eclampsia affects **maternal and fetal/infant health**: how can QALY measurements better reflect the multifactorial nature of the disease?
- Should pre-eclampsia be considered a **“severe” disease** in the context of the ISPOR Value Flower?
- How can we make the links between ISPOR Value Flower elements and pre-eclampsia more rigorous and explicit e.g., quantify **productivity loss** associated with over-monitoring as well as cost of unnecessary hospitalization?