Comments on the papers in this session

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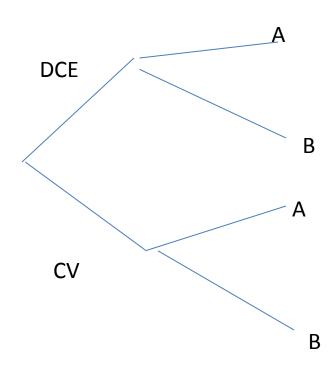
University of Maryland

Andersson et al. paper

- Scope tests in mortality and morbidity risk valuation using discrete choice experiments and contingent valuation
- ...but
 - 1. This is a research agenda from 20 years ago
 - 2. Extreme awareness about the importance of passing the scope test in most SP mortality and morbidity risk studies
 - 3. Many of them use across-respondent variation to test for scope
 - 4. The design of the good to be valued is flawed, so no wonder the scope test is failed across split samples

Why is the good flawed?

SPLIT SAMPLE DESIGN



B: the numerator of the risk reduction is 100x that in A, but the denominator is unspecified

- ΔR is 1, 2 or 4 deaths per year (A) or 100, 200 or 400 deaths per year
- Difference in the numerator is two orders of magnitude
- But what is the denominator???
 - Intentionally unspecified
 → this is unacceptable
 - See Johannesson et al. (1996)—highly criticized for not specifying the denominator

Other comments

- References are very Hammitt-centric ©
- RUM is linear additive in all attributes, but interactions would be more appropriate
- What is the discount rate?
- Econometric model from CV responses is log-log

- which is difficult to compare with a linear indirect utility of the DCE responses
- The sample size for each split-sample treatment/version are very small
- What denominator did you use to compute the VSL?

McDonald et al. paper

- Very busy paper, with lots of effects to test (premium, latency, etc.)
- General formula intuitively clear:

$$C_{t+j} = R_t \frac{(1+x)}{(1+d)^j}$$

where x is the cancer premium, d is the discount rate, and j is the latency

Presumably these are VSL

What's less clear...

- ...expected utility model is single-period.
- It produces the ratio of cancer to road fatality VSL as $\Delta R(road)/\Delta R(cancer)$
- But...
 - How is that amended when you allow for latency?
 - How important is the assumption that U(w,road traffic)=0 while U(w,cancer)≠0
 - If both of these state-dependent utilities are set to zero, do you automatically get that the VSL ratio is 1?

Even less clear...

- The risk-risk questions ask the respondent to choose between two risk *increases* relative to the baseline.
- Would the results change if you ask people to choose between *decreases* from the baseline?
- From two different powerpoint presentations I received:
 - Discount rate 7.5%
 - Is there a cancer premium after all? Or not?

Please rescue the faint of heart...

-about the "saddle" shown in the figure in the most recent presentation
- About the appropriateness of interpreting the switch point between options A and B in the choice card as a continuous variable (the dep. var. in the regression)
 - technically, the appropriate model is an interval data model
 - An increase from 40 to 60 (in 60 million) is small in absolute value but large in relative terms (a 50% increase)
- How useful is all of this in policy? We typically don't have information about the morbidity period when someone gets cancer...

Atherton paper

- It would be appropriate to cite Landrigan, Trasande, ... and their work on neurotoxicity
- don't use the expression "non use"—that's irrelevant in valuing environmental health
- Don't assign average income to those that do not report income
 - You have no evidence that income is missing at random
 - (even if income was missing at random) that's an old-fashioned procedure that reduces the variance of income and hinders identification of the effect of income
- Create a missing income dummy and set income to zero if missing; the dummy and recoded income must both be entered in the model
- I am not clear on the initial bid effect..