U.S. Adult Food Poisoning Outcomes Survey

Appendix 6. Discrete Choice Experiment Attributes and Levels

The Acute survey will have 5 choices using symptom descriptions as attributes and 5 choices using EQ5D attributes.

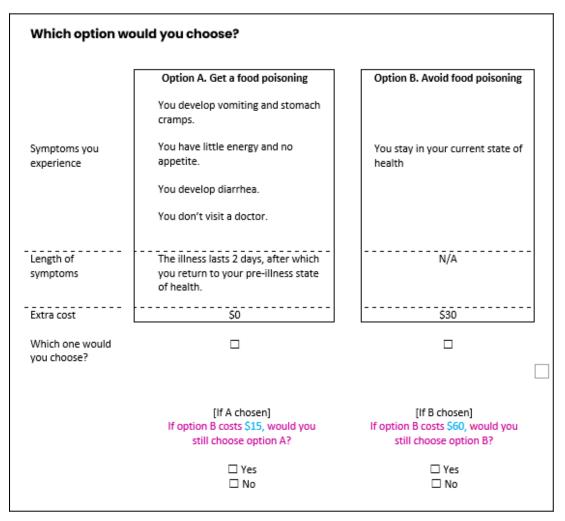
1.1 Each Acute symptom-based choice will have the 8 attributes presented in the table below. The levels of the attributes will differ across respondents in keeping with an optimal discrete choice experiment design.

1.

2.

Attribute	Levels	
Vomiting	None	
	Present	
Stomach cramps	None	
	Present	
Diarrhea	None	
	present, non- bloody	
	present, bloody	
Fever	none	
	present	
Headache	none	
	present	
Dr visit	None	
	you visit your family doctor once, who tells you to rest, drink plenty of fluids and take Tylenol or ibuprofen for pain.	
	you visit your family doctor twice, who tells you to rest, drink plenty of fluids and take Tylenol or ibuprofen for pain.	
Duration	the illness lasts for 'x' days. (x=1,2,4,7,10,14 days) after which you are completely recovered.	
Cost (\$)	Initial bids: 30, 50, 90, 150, 300	
	Follow up bids: are adjusted off of the initial bids with the follow up to a no at ½ the initial bid, follow up to a yes at 2x the initial bid	

Each respondent will see 5 Choice Sets, Status Quo (SQ) (current health) + 1 (illness), with a follow up question (with higher/lower price)



1.2. The Acute version EQ5D choices have 7 attributes, seen in the table below. These choices will be constrained to avoid illnesses that are less severe than the respondents' current health as indicated by their self-assessment using the EQ5D instrument early in the survey.

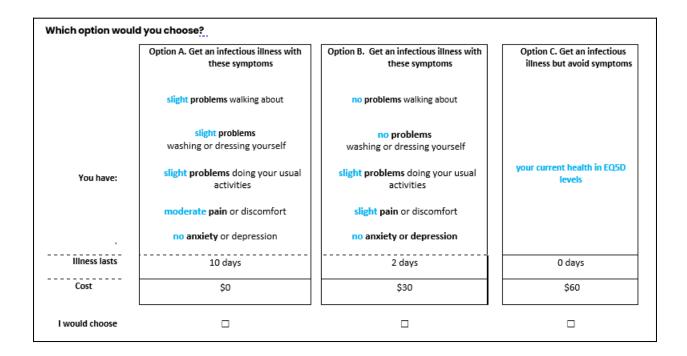
Attribute	Levels	
Mobility	1-5	
Self-care	1-5	
Usual activities	1-5	
Pain/discomfort	1-5	
Anxiety/depression	1-5	
Duration	(x=1,2,4,7,10,14, 18 days)	
Cost	18, 25, 35, 40, 50, 60, 120, 230, 300.	
	With cost of B < cost of C	

EQ5D attributes for choice sets (acute version).

Each respondent will see 5 Choice Sets, SQ (current health (C)) + 2 (illness options (A, B)), No follow up question:

Current health levels will be "piped in" from self-completed EQ5D-5L questions.

The DCE levels are constrained to ensure none of the 5 attributes in an Illness state (A, B) are better than the current health (C).



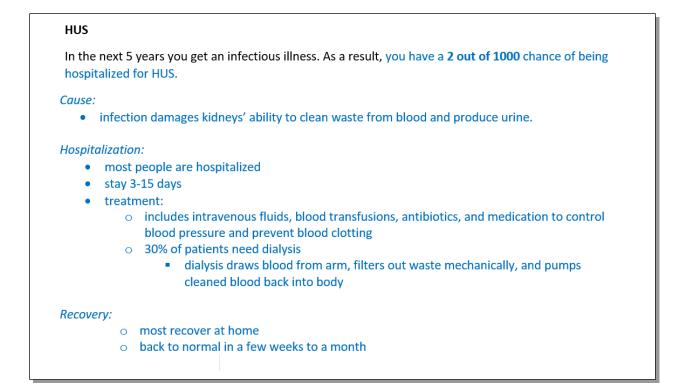
- 3. The Severe Outcome version of the survey will also have 5 choices using symptom descriptions as attributes and 5 choices using EQ5D attributes.
 - 3.1. Each Severe/Chronic symptom-based choice will have 3 attributes (illness description, risk, cost) presented in the table below. The levels of the attributes will differ across respondents in keeping with an optimal discrete choice experiment design.

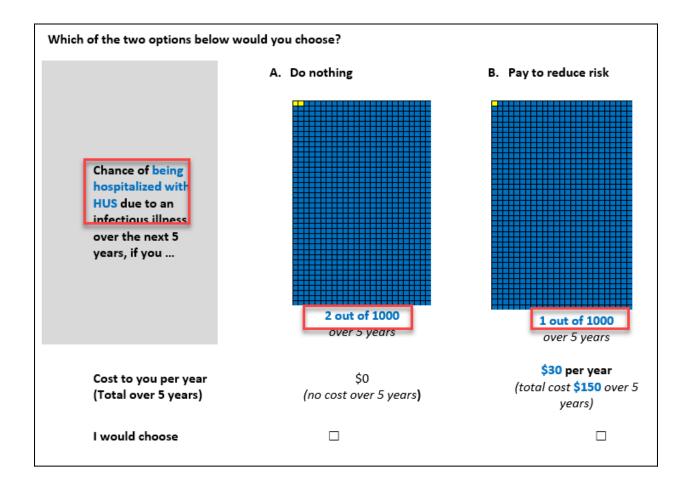
The Severe Outcome version has a narrative illness description as an attribute (Appendix 4). These descriptions are designed to reflect the kind of information medical professional provide to patients who are at risk for a particular illness. The descriptions include information on possible outcomes, their likelihood, health impact, and duration.

Attribute Levels Illness description Sepsis, appendectomy, IBS, GBS, HUS, Reactive arthritis, permanent kidney failure, meningitis, H. colitis, hospitalization for GI illness, vision impairment. See Appendix 4 for illness descriptions. Baseline risk is illness specific. See Appendix 4 illness descriptions. Baseline risk over 5 years **Risk reductions:** 0.75, 0.5, 0.25, 0.1 times the baseline health risk over 5 years Cost (\$)/year. Hospitalized without complications: Initial bids: 20, 30, 60, 120, 250, 300 Follow up bids: are adjusted off of the initial bids with the follow up to a no of 0.5 the initial bid, follow up to a yes of 2x the initial bid Hospitalized with complications or resulting in long-term health impacts: 40, 80, 150, 240, 400, 500, 750, 1000 Follow up bids: are adjusted off of the initial bids with the follow up to a no at $\frac{1}{2}$ the initial bid, follow up to a yes at 2x the initial bid

Symptom-based attributes for choice sets (severe outcome version).

Each respondent sees 5 Choice Sets, SQ (baseline risk) + 1 (reduced risk) with a follow up question (with higher/lower price):





[If A chosen] If option B cost \$15 per year (\$75 total over 5 years), would you still choose Option A? [If B chosen] If option B cost \$120 per year (\$600 total over 5 years), would you still choose Option B?

> □Yes □No

3.2. The Severe/Chronic version EQ5D choices have 8 attributes, seen in the table below. Again, these choices will be constrained to avoid illnesses that are less severe than the respondents' current health as indicated by their self-assessment using the EQ5D instrument early in the survey.

□Yes

□No

Attribute	Levels		
Mobility	1-5		
Self-care	1-5		
Usual activities	1-5		
Pain/discomfort	1-5		
Anxiety/depression	1-5		
Risk (x out of 1000)	Baseline risk: 26, 17, 10, 8, 4, 2, .26, .08 out of 1000		
	Risk change (for options B and C): 0.75, 0.5, 0.25, 0.1 of the baseline health risk over 5 years		
Duration	5 days, 1 week, 2 weeks, 3 months, 6 months, 1 year, 2 years,		
	3 years, 5 years, 8 year, 10 years, permanent		
Cost	20, 30, 60, 120, 225, 250, 300, 400, 500, 600, 750, 1000.		
	With cost of B < cost of C		

EQ5D attributes for choice sets (severe outcome version).

Each respondent will see 5 Choice Sets, SQ (current health (C)) + 2 illness options (A, B), No follow up question:

Current health levels piped into Option C from self-completed EQ5D-5L questions

The DCE levels from the experimental design are constrained to ensure none of the 5 attributes in an Illness state (A, B) are better than the current health (C)

Which option would you choose?					
Option	A. do nothing	B. <u>pay</u> for partial protection	C. pay for full protection		
Impact of complication	slight problems walking about slight problems washing or dressing yourself slight problems doing your usual activities moderate pain or discomfort slight anxiety or depression	slight problems walking about slight problems washing or dressing yourself slight problems doing your usual activities slight pain or discomfort no anxiety or depression	current health [pipe in EQ5D levels from responses on page].		
Complication lasts	4 months	2 weeks	0 days		
Chance of a complication from an infectious illness over the next 5 years Cost to you per year (Total over 5 years)	<mark>3 of 1000</mark> \$0 per year (\$0 over 5 years)	2 of 1000 \$1000 per year (\$5000 over 5 years)	0 of 1000 \$2000 per year (\$10,000 over 5 years)		
I would choose					