**TABLES**

**Table 1. Experimental Design**

|  |  |  |  |
| --- | --- | --- | --- |
| **Sample** | **VAS\*** | **Method**  **HUI:3\*** | **EQ5D\*** |
| **I** | **VASS**  **n=35** | **HUIS**  **n=35** |  |
| **II** | **VASP**  **n=51** |  | **EQ5DP**  **n=51** |

\* Subscript s denotes students and p denotes general public

**Table 2. Comparisons used in VASP+S, HUI:3S and EQ-5D­P. Stage 1**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **VAS** | | | | **HUI:3­­­­­** | | | | **EQ-5D** | | | |
|  | **Gain X** | | **Gain Y** | | **Gain X** | | **Gain Y** | | **Gain X** | | **Gain Y** | |
| States | A | B | C | D | A | B | C | D | A | B | C | D |
| Q10.25 | 0.75 | 1.0 | 0.5 | 0.75 | 0.76 | 1.0 | 0.52 | 0.76 | 0.78 | 1.0 | 0.55 | 0.78 |
| Q20.25 | 0.75 | 1.0 | 0.25 | 0.50 | 0.76 | 1.0 | 0.28 | 0.52 | 0.78 | 1.0 | 0.23 | 0.55 |
| Q30.25 | 0.75 | 1.0 | 0 | 0.25 | 0.76 | 1.0 | 0 | 0.28 | 0.78 | 1.0 | 0 | 0.23 |
| Q40.50 | 0.5 | 1.0 | 0.25 | 0.75 | 0.52 | 1.0 | 0.28 | 0.76 | 0.55 | 1.0 | 0.23 | 0.78 |
| Q50.50 | 0.5 | 1.0 | 0 | 0.5 | 0.52 | 1.0 | 0 | 0.52 | 0.55 | 1.0 | 0 | 0.55 |
| Q60.75 | 0.25 | 1.0 | 0 | 0.75 | 0.28 | 1.0 | 0 | 0.76 | 0.23 | 1.0 | 0 | 0.78 |

**Table 3**.  **VASS+P; Stage 1 Data and test results**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **VASS  Sample I, n=35** | | | | | | |
|  | **Prefer**  **Gain Y** | **Prefer**  **Gain X** | **Indifferent** | **Two-sided**  **t-test**  **Intra-person interval property** | **One-sided t-test**  **Prefer Y**  **RQ1a** | **One-sided t-test**  **Prefer X**  **RQ1b** |
| Q10.25 | 30 (86 %) | 1 (3 %) | 4 (1%) | p<0.01 | p<0.01 | p>0.99 |
| Q20.25 | 34 (97 %) | 0 (0 %) | 1 (0.3%) | p<0.01 | p<0.01 | p>0.99 |
| Q30.25 | 34 (97 %) | 1 (3 %) | 0 (0%) | p<0.01 | p<0.01 | p>0.99 |
| Q40.50 | 34 (97 %) | 0 (0 %) | 1 (0.3%) | p<0.01 | p<0.01 | p>0.99 |
| Q50.50 | 35 (100%) | 0 (0 %) | 0 (0%) | p<0.01 | p<0.01 | p>0.99 |
| Q60.75 | 35 (100%) | 0 (0%) | 0 (0%) | p<0.01 | p<0.01 | p>0.99 |
| **VASP  Sample II, n=51** | | | | | | |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Prefer**  **Gain Y** | **Prefer**  **Gain X** | **Indifferent** | **­Two-sided**  **t-test**  **Intra-person interval property** | **One-sided t-test**  **Prefer Y**  **RQ1a** | **One-sided t-test**  **Prefer X**  **RQ1b** |
| Q10.25 | 25 (49%) | 15 (29%) | 11 (22%) | p<0.01 | p=0.15 | p=0.85 |
| Q20.25 | 25 (49%) | 17(33%) | 9 (18%) | p<0.01 | p=0.42 | p=0.58 |
| Q30.25 | 29 (57%) | 14 (27%) | 8 (16%) | p<0.01 | p=0.18 | p=0.82 |
| Q40.50 | 33 (65%) | 14 (27%) | 4 (8%) | p<0.01 | p<0.01 | p>0.99 |
| Q50.50 | 32 (63%) | 8 (16%) | 11 (22%) | p<0.01 | p<0.01 | p>0.99 |
| Q60.75 | 39 (76%) | 8 (16%) | 4 (8%) | p<0.01 | p<0.01 | p>0.99 |

**Table 4. HUI:3S and EQ-5D­P; Stage 1 Data and test results**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **HUI:3S Sample I, n=35** | | | | | | | | | |
|  | **Prefer**  **Gain Y** | | **Prefer**  **Gain X** | | **Indifferent** | **Two-sided**  **t-test**  **Intra-person interval property** | **One-sided t-test**  **Prefer Y**  **RQ1a** | **One-sided t-test**  **Prefer X**  **RQ1b** | |
| Q10.25 | 22 (63 %) | | 8 (23 %) | | 5 (15 %) | p<0.01 | p=0.01 | p=0.99 | |
| Q20.25 | 22 (63 %) | | 11 (31 %) | | 2 (6%) | p<0.01 | p=0.06 | p=0.94 | |
| Q30.25 | 29 (83%) | | 6 (17 %) | | 0 (0%) | p<0.01 | p<0.01 | p>0.99 | |
| Q40.50 | 30 (86 %) | | 4 (11 %) | | 1 (3%) | p<0.01 | p<0.01 | p>0.99 | |
| Q50.50 | 29 (83 %) | | 6 (17 %) | | 0 (0%) | p<0.01 | p<0.01 | p>0.99 | |
| Q60.75 | 32 (91 %) | | 3 (9 %) | | 0 0(%) | p<0.01 | p<0.01 | p>0.99 | |
| **EQ-5D­P Sample II, n=51** | | | | | | | | | |
|  | | **Prefer**  **Gain Y** | | **Prefer**  **Gain X** | **Indifferent** | **Two-sided**  **t-test**  **Intra-person interval property** | **One-sided t-test**  **Prefer Y**  **RQ1a** | | **One-sided t-test**  **Prefer X**  **RQ1b** |
| Q10.25 | | 23 (45%) | | 26 (51%) | 2 (4%) | p<0.01 | p=0.67 | | p=0.33 |
| Q20.25 | | 7 (14%) | | 41 (80%) | 3( 6%) | p<0.01 | p=0.99 | | p=0.01 |
| Q30.25 | | 16 (31%) | | 33 (65%) | 2 (4%) | p<0.01 | p=0.99 | | p=0.01 |
| Q40.50 | | 26 (51%) | | 23 (45%) | 2 (4%) | p<0.01 | p=0.67 | | p=0.33 |
| Q50.50 | | 16 (31%) | | 33 (65%) | 2 (4%) | p<0.01 | p=0.99 | | p=0.01 |
| Q60.75 | | 38 (75%) | | 11 (22%) | 2 (4%) | p<0.01 | p<0.01 | | p>0.99 |

**Table 5. Stage 2 results. Strength of preference for each gain from each baseline**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | **VASS** | | **VASP** | | **HUIS** | | **EQ5DP** | |
|  | **Gain X** | **D\*** | **Gain Y\*** | **D\*** | **Gain Y\*** | **D\*** | **Gain Y\*** | **D\*** | **Gain Y\*** |
| Q10.25 | 0.25 | 0.66 | 0.16 | 0.72 | 0.22 | 0.73 | 0.21 | 0.74 | 0.19 |
| Q20.25 | 0.25 | 0.37 | 0.12 | 0.49 | 0.24 | 0.51 | 0.23 | 0.63 | 0.35 |
| Q30.25 | 0.25 | 0.10 | 0.10 | 0.24 | 0.24 | 0.15 | 0.15 | 0.43 | 0.43 |
| Q40.50 | 0.50 | 0.53 | 0.28 | 0.61 | 0.36 | 0.64 | 0.36 | 0.72 | 0.42 |
| Q50.50 | 0.50 | 0.24 | 0.24 | 0.37 | 0.37 | 0.29 | 0.29 | 0.54 | 0.54 |
| Q60.75 | 0.75 | 0.42 | 0.42 | 0.53 | 0.53 | 0.43 | 0.43 | 0.55 | 0.55 |