Questionnaire

# General Questionnaire

|  |  |  |
| --- | --- | --- |
| 1 | ID |  |
| 2 | Age |  |
| 3 | Gender |  |
| 4 | Previous experience with Virtual Reality (1: none, 2: low, 3: moderate, 4: high, 5: very high) |  |
| 5 | Previous experience in driving vehicles (1: none, 2: low, 3: moderate, 4: high, 5: very high) |  |
| 6 | Previous experience with carousels/rollercoasters (1: none, 2: low, 3: moderate, 4: high, 5: very high) |  |

# MSSQ-Short

# This questionnaire is designed to find out how susceptible to motion sickness you are, and what sorts of motion are most effective in causing that sickness. Sickness here means feeling queasy or nauseated or actually vomiting.

# **Your CHILDHOOD Experience Only** (before 12 years of age), for each of the following types of transport or

# entertainment please indicate:

# **As a CHILD (before age 12)**, how often you Felt **Sick** **or** **Nauseated** (tick boxes):

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | | **Not Applicable - Never Travelled** | **Never Felt Sick** | **Rarely Felt Sick** | **Sometimes Felt Sick** | **Frequently Felt Sick** |
| 7 | Cars |  |  |  |  |  |
| 8 | Buses |  |  |  |  |  |
| 9 | Coaches |  |  |  |  |  |
| 10 | Trains |  |  |  |  |  |
| 11 | Aircraft |  |  |  |  |  |
| 12 | Small Boats |  |  |  |  |  |
| 13 | Ships, e.g. Channel Ferries |  |  |  |  |  |
| 14 | Swings in playgrounds |  |  |  |  |  |
| 15 | Roundabouts in playgrounds |  |  |  |  |  |
| 16 | Big Dippers, Funfair Rides |  |  |  |  |  |
|  | | t | 0 | 1 | 2 | 3 |

**Your Experience over the LAST 10 YEARS (approximately)**, for each of the following types of transport or entertainment please indicate:

**Over the LAST 10 YEARS**, how often you Felt **Sick or Nauseated** (tick boxes):

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | | **Not Applicable - Never Travelled** | **Never Felt Sick** | **Rarely Felt Sick** | **Sometimes Felt Sick** | **Frequently Felt Sick** |
| 17 | Cars |  |  |  |  |  |
| 18 | Buses |  |  |  |  |  |
| 19 | Coaches |  |  |  |  |  |
| 20 | Trains |  |  |  |  |  |
| 21 | Aircraft |  |  |  |  |  |
| 22 | Small Boats |  |  |  |  |  |
| 23 | Ships, e.g. Channel Ferries |  |  |  |  |  |
| 24 | Swings in playgrounds |  |  |  |  |  |
| 25 | Roundabouts in playgrounds |  |  |  |  |  |
| 26 | Big Dippers, Funfair Rides |  |  |  |  |  |
|  | | t | 0 | 1 | 2 | 3 |

|  |  |  |
| --- | --- | --- |
| 27 | MSA |  |
| 28 | MSB |  |
| 29 | MSSQ RawScore: 27 + 28 |  |

# **Scoring the MSSQ- Short:** [**https://www.westminster.ac.uk/sites/default/public-files/general-documents/MSSQ-short-form.pdf**](https://www.westminster.ac.uk/sites/default/public-files/general-documents/MSSQ-short-form.pdf)

# 

# Scenario: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

# Pre-SSQ

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **SSQ Items** | | **Likert Scale** | | | |
| **None** | **Slight** | **Moderate** | **Severe** |
| 30 | General discomfort |  |  |  |  |
| 31 | Fatigue |  |  |  |  |
| 32 | Headache |  |  |  |  |
| 33 | Eyestrain |  |  |  |  |
| 34 | Difficulty focusing |  |  |  |  |
| 35 | Increased salivation |  |  |  |  |
| 36 | Sweating |  |  |  |  |
| 37 | Nausea |  |  |  |  |
| 38 | Difficulty concentrating |  |  |  |  |
| 39 | «Fulness of the head» |  |  |  |  |
| 40 | Blurred vision |  |  |  |  |
| 41 | Dizziness (eyes open) |  |  |  |  |
| 42 | Dizziness (eyes closed) |  |  |  |  |
| 43 | Vertigo |  |  |  |  |
| 44 | Stomach awareness |  |  |  |  |
| 45 | Burping |  |  |  |  |
|  |  | 0 | 1 | 2 | 3 |
|  |  |  |  |  |  |
| 46 | Nausea: (30+35+36+37+38+44+45)\*9.54 | | | |  |
| 47 | Oculomotor: (30+31+32+33+34+38+40)\*7.58 | | | |  |
| 48 | Disorientation: (34+37+39+40+41+42+43)\*13.92 | | | |  |
| 49 | Total Score: [(30+35+36+37+38+44+45) + (30+31+32+33+34+38+40) + (34+37+39+40+41+42+43)]\*3.74 | | | |  |

# Hearth Rate

|  |  |  |
| --- | --- | --- |
| 50 | Hearth Rate (pre) |  |

# Discomfort Scale [1-10]

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 0 |  | 20 |  | 40 |  | 60 |  | 80 |  |
| 1 |  | 21 |  | 41 |  | 61 |  | 81 |  |
| 2 |  | 22 |  | 42 |  | 62 |  | 82 |  |
| 3 |  | 23 |  | 43 |  | 63 |  | 83 |  |
| 4 |  | 24 |  | 44 |  | 64 |  | 84 |  |
| 5 |  | 25 |  | 45 |  | 65 |  | 85 |  |
| 6 |  | 26 |  | 46 |  | 66 |  | 86 |  |
| 7 |  | 27 |  | 47 |  | 67 |  | 87 |  |
| 8 |  | 28 |  | 48 |  | 68 |  | 88 |  |
| 9 |  | 29 |  | 49 |  | 69 |  | 89 |  |
| 10 |  | 30 |  | 50 |  | 70 |  | 90 |  |
| 11 |  | 31 |  | 51 |  | 71 |  | 91 |  |
| 12 |  | 32 |  | 52 |  | 72 |  | 92 |  |
| 13 |  | 33 |  | 53 |  | 73 |  | 93 |  |
| 14 |  | 34 |  | 54 |  | 74 |  | 94 |  |
| 15 |  | 35 |  | 55 |  | 75 |  | 95 |  |
| 16 |  | 36 |  | 56 |  | 76 |  | 96 |  |
| 17 |  | 37 |  | 57 |  | 77 |  | 97 |  |
| 18 |  | 38 |  | 58 |  | 78 |  | 98 |  |
| 19 |  | 39 |  | 59 |  | 79 |  | 99 |  |

# Withdrawn for Cybersickness

|  |  |  |  |
| --- | --- | --- | --- |
| 51 | | Withdraw for CS? |  |
|  |  | Yes/No |

# Post-SSQ

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **SSQ Items** | | **Likert Scale** | | | |
| **None** | **Slight** | **Moderate** | **Severe** |
| 52 | General discomfort |  |  |  |  |
| 53 | Fatigue |  |  |  |  |
| 54 | Headache |  |  |  |  |
| 55 | Eyestrain |  |  |  |  |
| 56 | Difficulty focusing |  |  |  |  |
| 57 | Increased salivation |  |  |  |  |
| 58 | Sweating |  |  |  |  |
| 59 | Nausea |  |  |  |  |
| 60 | Difficulty concentrating |  |  |  |  |
| 61 | «Fulness of the head» |  |  |  |  |
| 62 | Blurred vision |  |  |  |  |
| 63 | Dizziness (eyes open) |  |  |  |  |
| 64 | Dizziness (eyes closed) |  |  |  |  |
| 65 | Vertigo |  |  |  |  |
| 66 | Stomach awareness |  |  |  |  |
| 67 | Burping |  |  |  |  |
|  |  | 0 | 1 | 2 | 3 |
|  |  |  |  |  |  |
| 68 | Nausea: (52+57+58+59+60+66+67)\*9.54 | | | |  |
| 69 | Oculomotor: (52+53+54+55+56+60+62)\*7.58 | | | |  |
| 70 | Disorientation: (56+59+61+62+63+64+65)\*13.92 | | | |  |
| 71 | Total Score: [(52+57+58+59+60+66+67) + (52+53+54+55+56+60+62) + (56+59+61+62+63+64+65)]\*3.74 | | | |  |

# Presence (VRUSE)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **VRUSE Presence Items** | | **Likert Scale** | | | | |
| **Strongly Disagree** | **Disagree** | **Neutral** | **Agree** | **Strongly Agree** |
| 72 | I got a sense of presence (i.e., being there) |  |  |  |  |  |
| 73 | The quality of the image reduced my feeling of presence |  |  |  |  |  |
| 74 | I thought that the field of view enhanced my sense of presence |  |  |  |  |  |
| 75 | I felt isolated and not part of the virtual environment |  |  |  |  |  |
| 76 | I hand a good sense of scale in the virtual environment |  |  |  |  |  |
| 77 | I often did not know where I was in the virtual environment |  |  |  |  |  |
|  | | 0 | 1 | 2 | 3 | 4 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **VRUSE Overall Presence** | | **Likert Scale** | | | | |
| **Very Unsatisfactory** | **Unsatisfactory** | **Neutral** | **Satisfactory** | **Very Satisfactory** |
| 78 | Overall I would rate my sense of presence as: |  |  |  |  |  |
|  | | 0 | 1 | 2 | 3 | 4 |

# Hearth Rate

|  |  |  |
| --- | --- | --- |
| 79 | Hearth Rate (post) |  |
| 80 | Hearth Rate Diff: 79-50 |  |

# COMMENTS

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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