A: Baseline samples versus not included samples (GSA)

- **Accelerometer-based physical activity**: p < 2.22e−16
- **Alcohol use**: 0.53
- **Anxiety/tension**: 0.65
- **Autism spectrum disorder (ASD)**: 0.007
- **BMI**: 0.2
- **COVID-19 severity**: 0.00018
- **COVID-19 susceptibility**: 0.00024
- **Depression**: 0.00077
- **Educational attainment**: 1.7e−06
- **General risk tolerance**: 0.029
- **Life satisfaction**: 0.00021
- **Moderate to vigorous physical activity (MVP A)**: 1.7e−06
- **Neuroticism**: 0.00007
- **Obsessive compulsive disorder (OCD)**: 2.6e−07
- **Schizophrenia**: 3.6e−08
- **Tobacco use**: 0.13
- **Worry/vulnerability**: 0.35

Included baseline samples compared to samples that have been invited but were not included.
Baseline samples vs not included samples (HumanCytoSNP)

- **Accelerometer-based physical activity**
  - Baseline samples: 0.68
  - Invited, not included samples: 0.094

- **BMI**
  - Baseline samples: 0.0068
  - Invited, not included samples: 0.0087

- **Neuroticism**
  - Baseline samples: 5.6e−13
  - Invited, not included samples: 1.5e−05

- **Obsessive compulsive disorder (OCD)**
  - Baseline samples: 0.53
  - Invited, not included samples: 0.52

- **Schizophrenia**
  - Baseline samples: 0.043
  - Invited, not included samples: 0.003

- **Tobacco use**
  - Baseline samples: 0.0025
  - Invited, not included samples: 0.0049

- **Worry/vulnerability**
  - Baseline samples: 0.16
  - Invited, not included samples: 0.054

- **Alcohol use**
  - Baseline samples: 1.5e−05
  - Invited, not included samples: 4e−05

- **Anxiety/tension**
  - Baseline samples: 0.0043
  - Invited, not included samples: 0.0049

- **COVID-19 severity**
  - Baseline samples: 0.0043
  - Invited, not included samples: 0.0049

- **COVID-19 susceptibility**
  - Baseline samples: 0.0025
  - Invited, not included samples: 0.0049

- **Depression**
  - Baseline samples: 0.0043
  - Invited, not included samples: 0.0049

- **Educational attainment**
  - Baseline samples: 1.0
  - Invited, not included samples: 0.0

- **General risk tolerance**
  - Baseline samples: 0.1
  - Invited, not included samples: 0.0

- **Life satisfaction**
  - Baseline samples: 0.2
  - Invited, not included samples: 0.0

- **Moderate to vigorous physical activity (MVPA)**
  - Baseline samples: 0.3
  - Invited, not included samples: 0.0

- **Polygenic scores**
  - Baseline samples: −0.5
  - Invited, not included samples: 0.0

- **Autism spectrum disorder (ASD)**
  - Baseline samples: 0.0
  - Invited, not included samples: 0.0

Included baseline samples compared to samples that have been invited but were not included
Included longitudinal samples compared to samples that have been invited but were not included in the longitudinal analysis.
D: Longitudinal samples vs not included samples (HumanCytoSNP)

- **Accelerometer-based physical activity**: 0.72
- **Alcohol use**: 0.11
- **Anxiety/tension**: 0.33
- **Autism spectrum disorder (ASD)**: 0.89
- **BMI**: 0.035
- **COVID-19 severity**: 0.13
- **COVID-19 susceptibility**: 0.92
- **Depression**: 0.067
- **Educational attainment**: 1.4e−12
- **General risk tolerance**: 0.0022
- **Life satisfaction**: 0.0016
- **Moderate to vigorous physical activity (MVPA)**: 0.0043
- **Neuroticism**: 0.0001
- **Obsessive compulsive disorder (OCD)**: 0.43
- **Schizophrenia**: 6.9e−09
- **Tobacco use**: 0.006
- **Worry/vulnerability**: 0.83

Included longitudinal samples compared to samples that have been invited but were not included in the longitudinal analysis.
E: Longitudinal samples vs baseline samples (GSA)

- **Accelerometer-based physical activity**: 0.53
- **Alcohol use**: 0.0034
- **Anxiety/tension**: 0.61
- **Autism spectrum disorder (ASD)**: 0.42
- **BMI**: 0.027
- **COVID-19 severity**: 0.017
- **COVID-19 susceptibility**: 0.78
- **Depression**: 0.016
- **Educational attainment**: 4.7e−11
- **General risk tolerance**: 0.19
- **Life satisfaction**: 0.044
- **Moderate to vigorous physical activity (MVPA)**: 0.0026
- **Neuroticism**: 0.0014
- **Obsessive compulsive disorder (OCD)**: 0.28
- **Schizophrenia**: 0.031
- **Tobacco use**: 0.78
- **Worry/vulnerability**: 0.64

Included longitudinal samples compared to samples that have only been included in baseline analyses.
F: Longitudinal samples vs baseline samples (HumanCytoSNP)

- Accelerometer-based physical activity: 0.91
- Alcohol use: 0.51
- Anxiety/tension: 0.073
- Autism spectrum disorder (ASD): 0.71
- BMI: 0.65
- COVID-19 severity: 0.81
- COVID-19 susceptibility: 0.11
- Depression: 0.89
- Educational attainment: 0.0015
- General risk tolerance: 0.11
- Life satisfaction: 0.68
- Moderate to vigorous physical activity (MVPA): 0.24
- Neuroticism: 0.16
- Obsessive compulsive disorder (OCD): 0.55
- Schizophrenia: 3.4e-05
- Tobacco use: 0.22
- Worry/vulnerability: 0.34

Included longitudinal samples compared to samples that have only been included in baseline analyses