## Table S2: Model summary – Depression

|  | Relative Wealth | | | Absolute Wealth | | | No Covariates | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| N=670 Variable | Mean | Lower 5% CI | Upper 95%CI | Mean | Lower 95% CI | Upper 95%CI | Mean | Lower 95% CI | Upper 95%CI |
| Intercept | -0.25 | -0.55 | 0.08 | -0.25 | -0.56 | 0.06 | 0.07 | -0.12 | 0.25 |
| Gini | 0.02 | -0.17 | 0.24 | 0.02 | -0.17 | 0.20 | 0.09 | -0.09 | 0.24 |
| Community Relative Wealth a | -0.04 | -0.12 | 0.03 |  |  |  |  |  |  |
| Sample Relative Wealth b |  |  |  | -0.04 | -0.12 | 0.03 | -0.06 | -0.14 | 0.02 |
| Mean Community Wealth c | -0.01 | -0.58 | 0.49 |  |  |  |  |  |  |
| Age | 0.37 | 0.24 | 0.47 | 0.37 | 0.27 | 0.49 |  |  |  |
| Sex=male | -0.50 | -0.62 | -0.37 | -0.50 | -0.62 | -0.38 |  |  |  |
| Household Size | 0.10 | 0.01 | 0.19 | 0.10 | 0.02 | 0.18 |  |  |  |
| Distance to San Borja | -0.11 | -0.31 | 0.07 | -0.11 | -0.28 | 0.07 |  |  |  |
| Community Size | -0.17 | -0.43 | 0.09 | -0.17 | -0.42 | 0.07 |  |  |  |
| sd(Community) N=32 | 0.45 | 0.28 | 0.62 | 0.44 | 0.27 | 0.58 | 0.40 | 0.26 | 0.56 |
| sd(Household) N=323 | 0.27 | 0.07 | 0.42 | 0.27 | 0.09 | 0.42 | 0.34 | 0.17 | 0.49 |
| sd(Individual) N=528 | 0.09 | 0.00 | 0.22 | 0.09 | 0.00 | 0.22 | 0.12 | 0.00 | 0.28 |
| Goodness of fit (R2) | 0.34 | 0.25 | 0.41 | 0.34 | 0.25 | 0.41 | 0.27 | 0.17 | 0.36 |
| a Z-score centered on community mean | | | | | | | | | |
| b Z-score centered on full sample | | | | | | | | | |
| c Mean full sample Z-score for the community | | | | | | | | | |

## Table S3: Model summary – Social conflicts

|  | Relative Wealth | | | Absolute Wealth | | | No Covariates | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| N=401 Variable | Mean | Lower 5% CI | Upper 95%CI | Mean | Lower 95% CI | Upper 95%CI | Mean | Lower 95% CI | Upper 95%CI |
| Intercept | -0.15 | -0.47 | 0.18 | -0.14 | -0.43 | 0.19 | 0.02 | -0.16 | 0.22 |
| Gini | -0.04 | -0.24 | 0.12 | -0.04 | -0.21 | 0.13 | -0.05 | -0.24 | 0.12 |
| Community Relative Wealth a | -0.00 | -0.11 | 0.12 |  |  |  |  |  |  |
| Sample Relative Wealth b |  |  |  | 0.00 | -0.11 | 0.11 | 0.01 | -0.10 | 0.12 |
| Mean Community Wealth c | -0.01 | -0.64 | 0.58 |  |  |  |  |  |  |
| Age | 0.26 | 0.10 | 0.43 | 0.26 | 0.09 | 0.42 |  |  |  |
| Sex=male | -0.09 | -0.27 | 0.08 | -0.09 | -0.28 | 0.08 |  |  |  |
| Household Size | 0.22 | 0.09 | 0.35 | 0.21 | 0.09 | 0.34 |  |  |  |
| Distance to San Borja | 0.16 | -0.04 | 0.36 | 0.15 | -0.01 | 0.33 |  |  |  |
| Community Size | -0.04 | -0.26 | 0.20 | -0.04 | -0.24 | 0.18 |  |  |  |
| sd(Community) N=25 | 0.27 | 0.07 | 0.47 | 0.26 | 0.07 | 0.45 | 0.33 | 0.15 | 0.53 |
| sd(Household) N=203 | 0.43 | 0.23 | 0.61 | 0.44 | 0.27 | 0.60 | 0.48 | 0.31 | 0.65 |
| sd(Individual) N=342 | 0.11 | 0.00 | 0.25 | 0.11 | 0.00 | 0.26 | 0.10 | 0.00 | 0.25 |
| Goodness of fit (R2) | 0.32 | 0.19 | 0.43 | 0.33 | 0.21 | 0.43 | 0.31 | 0.17 | 0.41 |
| a Z-score centered on community mean | | | | | | | | | |
| b Z-score centered on full sample | | | | | | | | | |
| c Mean full sample Z-score for the community | | | | | | | | | |

## Table S4: Model summary – Fewer Labor partners

|  | Relative Wealth | | | Absolute Wealth | | | No Covariates | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| N=399 Variable | Mean | Lower 5% CI | Upper 95%CI | Mean | Lower 95% CI | Upper 95%CI | Mean | Lower 95% CI | Upper 95%CI |
| Intercept | -0.04 | -0.32 | 0.21 | -0.05 | -0.33 | 0.22 | 0.02 | -0.15 | 0.20 |
| Gini | -0.05 | -0.32 | 0.17 | -0.05 | -0.27 | 0.15 | -0.05 | -0.25 | 0.13 |
| Community Relative Wealth a | -0.13 | -0.24 | -0.02 |  |  |  |  |  |  |
| Sample Relative Wealth b |  |  |  | -0.13 | -0.24 | -0.03 | -0.17 | -0.27 | -0.06 |
| Mean Community Wealth c | -0.16 | -0.71 | 0.40 |  |  |  |  |  |  |
| Age | -0.02 | -0.15 | 0.10 | -0.02 | -0.15 | 0.10 |  |  |  |
| Sex=male | 0.01 | -0.06 | 0.08 | 0.01 | -0.06 | 0.08 |  |  |  |
| Household Size | -0.34 | -0.48 | -0.18 | -0.34 | -0.49 | -0.18 |  |  |  |
| Distance to San Borja | -0.05 | -0.26 | 0.14 | -0.05 | -0.22 | 0.13 |  |  |  |
| Community Size | -0.08 | -0.29 | 0.13 | -0.09 | -0.28 | 0.09 |  |  |  |
| sd(Community) N=24 | 0.19 | 0.00 | 0.42 | 0.17 | 0.00 | 0.38 | 0.13 | 0.00 | 0.31 |
| sd(Household) N=181 | 0.94 | 0.84 | 1.05 | 0.94 | 0.83 | 1.05 | 1.00 | 0.89 | 1.11 |
| sd(Individual) N=304 | 0.02 | 0.00 | 0.05 | 0.02 | 0.00 | 0.05 | 0.02 | 0.00 | 0.05 |
| Goodness of fit (R2) | 0.91 | 0.90 | 0.92 | 0.91 | 0.90 | 0.92 | 0.91 | 0.90 | 0.92 |
| a Z-score centered on community mean | | | | | | | | | |
| b Z-score centered on full sample | | | | | | | | | |
| c Mean full sample Z-score for the community | | | | | | | | | |

## Table S5: Model summary – Non-social problems

|  | Relative Wealth | | | Absolute Wealth | | | No Covariates | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| N=398 Variable | Mean | Lower 5% CI | Upper 95%CI | Mean | Lower 95% CI | Upper 95%CI | Mean | Lower 95% CI | Upper 95%CI |
| Intercept | -0.13 | -0.51 | 0.19 | -0.10 | -0.50 | 0.23 | -0.04 | -0.25 | 0.18 |
| Gini | -0.15 | -0.37 | 0.06 | -0.17 | -0.38 | 0.05 | -0.19 | -0.41 | 0.01 |
| Community Relative Wealth a | -0.06 | -0.18 | 0.04 |  |  |  |  |  |  |
| Sample Relative Wealth b |  |  |  | -0.06 | -0.16 | 0.07 | -0.05 | -0.17 | 0.05 |
| Mean Community Wealth c | 0.28 | -0.46 | 0.99 |  |  |  |  |  |  |
| Age | 0.03 | -0.14 | 0.18 | 0.03 | -0.13 | 0.19 |  |  |  |
| Sex=male | -0.15 | -0.33 | 0.01 | -0.15 | -0.33 | 0.02 |  |  |  |
| Household Size | 0.06 | -0.07 | 0.18 | 0.06 | -0.06 | 0.20 |  |  |  |
| Distance to San Borja | 0.05 | -0.19 | 0.28 | 0.11 | -0.10 | 0.31 |  |  |  |
| Community Size | -0.25 | -0.52 | -0.01 | -0.25 | -0.52 | 0.02 |  |  |  |
| sd(Community) N=25 | 0.38 | 0.19 | 0.59 | 0.40 | 0.19 | 0.59 | 0.41 | 0.23 | 0.62 |
| sd(Household) N=201 | 0.42 | 0.27 | 0.61 | 0.42 | 0.23 | 0.58 | 0.42 | 0.25 | 0.59 |
| sd(Individual) N=339 | 0.15 | 0.00 | 0.35 | 0.15 | 0.00 | 0.35 | 0.16 | 0.00 | 0.35 |
| Goodness of fit (R2) | 0.38 | 0.26 | 0.49 | 0.38 | 0.26 | 0.49 | 0.36 | 0.24 | 0.48 |
| a Z-score centered on community mean | | | | | | | | | |
| b Z-score centered on full sample | | | | | | | | | |
| c Mean full sample Z-score for the community | | | | | | | | | |

## Table S6: Model summary – Cortisol

|  | Relative Wealth | | | Absolute Wealth | | | No Covariates | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| N=811 Variable | Mean | Lower 5% CI | Upper 95%CI | Mean | Lower 95% CI | Upper 95%CI | Mean | Lower 95% CI | Upper 95%CI |
| Intercept | 0.50 | 0.30 | 0.66 | 0.50 | 0.32 | 0.68 | 0.06 | -0.07 | 0.21 |
| Gini | 0.02 | -0.12 | 0.18 | 0.01 | -0.12 | 0.14 | 0.00 | -0.14 | 0.15 |
| Community Relative Wealth a | -0.02 | -0.08 | 0.05 |  |  |  |  |  |  |
| Sample Relative Wealth b |  |  |  | -0.02 | -0.08 | 0.05 | -0.03 | -0.09 | 0.05 |
| Mean Community Wealth c | 0.05 | -0.32 | 0.45 |  |  |  |  |  |  |
| Age | -0.12 | -0.22 | -0.04 | -0.12 | -0.21 | -0.03 |  |  |  |
| Sex=male | -0.76 | -0.89 | -0.64 | -0.76 | -0.88 | -0.63 |  |  |  |
| Household Size | 0.05 | -0.02 | 0.11 | 0.05 | -0.02 | 0.12 |  |  |  |
| Distance to San Borja | -0.06 | -0.20 | 0.07 | -0.05 | -0.18 | 0.08 |  |  |  |
| Community Size | -0.09 | -0.24 | 0.08 | -0.08 | -0.23 | 0.06 |  |  |  |
| sd(Community) N=34 | 0.25 | 0.13 | 0.40 | 0.25 | 0.12 | 0.38 | 0.29 | 0.16 | 0.44 |
| sd(Household) N=391 | 0.28 | 0.11 | 0.41 | 0.28 | 0.14 | 0.41 | 0.14 | 0.00 | 0.29 |
| sd(Individual) N=588 | 0.19 | 0.00 | 0.35 | 0.18 | 0.00 | 0.35 | 0.51 | 0.39 | 0.62 |
| Goodness of fit (R2) | 0.35 | 0.28 | 0.43 | 0.35 | 0.27 | 0.43 | 0.35 | 0.25 | 0.44 |
| a Z-score centered on community mean | | | | | | | | | |
| b Z-score centered on full sample | | | | | | | | | |
| c Mean full sample Z-score for the community | | | | | | | | | |

## Table S7: Model summary – BMI

|  | Relative Wealth | | | Absolute Wealth | | | No Covariates | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| N=5179 Variable | Mean | Lower 5% CI | Upper 95%CI | Mean | Lower 95% CI | Upper 95%CI | Mean | Lower 95% CI | Upper 95%CI |
| Intercept | 0.16 | 0.05 | 0.28 | 0.16 | 0.05 | 0.28 | 0.20 | 0.12 | 0.29 |
| Gini | 0.01 | -0.06 | 0.09 | 0.00 | -0.07 | 0.08 | 0.03 | -0.04 | 0.10 |
| Community Relative Wealth a | -0.01 | -0.04 | 0.02 |  |  |  |  |  |  |
| Sample Relative Wealth b |  |  |  | -0.01 | -0.04 | 0.02 | -0.01 | -0.04 | 0.02 |
| Mean Community Wealth c | 0.06 | -0.13 | 0.28 |  |  |  |  |  |  |
| Age | 0.08 | 0.03 | 0.14 | 0.08 | 0.03 | 0.14 |  |  |  |
| Sex=male | 0.03 | -0.06 | 0.13 | 0.03 | -0.06 | 0.13 |  |  |  |
| Household Size | 0.03 | -0.02 | 0.08 | 0.03 | -0.02 | 0.08 |  |  |  |
| Distance to San Borja | -0.09 | -0.18 | -0.00 | -0.08 | -0.16 | 0.00 |  |  |  |
| Community Size | 0.03 | -0.07 | 0.13 | 0.03 | -0.07 | 0.14 |  |  |  |
| sd(Community) N=40 | 0.16 | 0.06 | 0.27 | 0.16 | 0.06 | 0.27 | 0.17 | 0.08 | 0.27 |
| sd(Household) N=833 | 0.28 | 0.16 | 0.38 | 0.26 | 0.12 | 0.38 | 0.25 | 0.11 | 0.39 |
| sd(Individual) N=1901 | 1.03 | 0.98 | 1.07 | 1.03 | 0.98 | 1.08 | 1.03 | 0.98 | 1.08 |
| Goodness of fit (R2) | 0.84 | 0.83 | 0.84 | 0.84 | 0.83 | 0.84 | 0.84 | 0.83 | 0.84 |
| a Z-score centered on community mean | | | | | | | | | |
| b Z-score centered on full sample | | | | | | | | | |
| c Mean full sample Z-score for the community | | | | | | | | | |

## Table S8: Model summary – Systolic blood pressure

|  | Relative Wealth | | | Absolute Wealth | | | No Covariates | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| N=3195 Variable | Mean | Lower 5% CI | Upper 95%CI | Mean | Lower 95% CI | Upper 95%CI | Mean | Lower 95% CI | Upper 95%CI |
| Intercept | -0.47 | -0.55 | -0.39 | -0.47 | -0.55 | -0.38 | -0.03 | -0.09 | 0.04 |
| Gini | 0.05 | 0.00 | 0.10 | 0.08 | 0.02 | 0.13 | 0.07 | 0.01 | 0.13 |
| Community Relative Wealth a | -0.01 | -0.05 | 0.03 |  |  |  |  |  |  |
| Sample Relative Wealth b |  |  |  | -0.03 | -0.06 | 0.01 | -0.02 | -0.06 | 0.02 |
| Mean Community Wealth c | -0.29 | -0.43 | -0.16 |  |  |  |  |  |  |
| Age | 0.34 | 0.30 | 0.39 | 0.35 | 0.31 | 0.40 |  |  |  |
| Sex=male | 0.30 | 0.24 | 0.38 | 0.30 | 0.23 | 0.37 |  |  |  |
| Household Size | -0.04 | -0.08 | -0.00 | -0.04 | -0.08 | 0.00 |  |  |  |
| Distance to San Borja | 0.07 | 0.02 | 0.13 | 0.03 | -0.03 | 0.09 |  |  |  |
| Community Size | 0.12 | 0.06 | 0.18 | 0.08 | 0.01 | 0.15 |  |  |  |
| sd(Community) N=40 | 0.07 | 0.00 | 0.14 | 0.11 | 0.02 | 0.20 | 0.14 | 0.06 | 0.21 |
| sd(Household) N=777 | 0.17 | 0.06 | 0.28 | 0.19 | 0.08 | 0.28 | 0.22 | 0.11 | 0.32 |
| sd(Individual) N=1622 | 0.42 | 0.36 | 0.48 | 0.42 | 0.36 | 0.48 | 0.52 | 0.46 | 0.58 |
| Goodness of fit (R2) | 0.34 | 0.31 | 0.38 | 0.34 | 0.31 | 0.38 | 0.34 | 0.30 | 0.38 |
| a Z-score centered on community mean | | | | | | | | | |
| b Z-score centered on full sample | | | | | | | | | |
| c Mean full sample Z-score for the community | | | | | | | | | |

## Table S9: Model summary – Diastolic blood pressure

|  | Relative Wealth | | | Absolute Wealth | | | No Covariates | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| N=3195 Variable | Mean | Lower 5% CI | Upper 95%CI | Mean | Lower 95% CI | Upper 95%CI | Mean | Lower 95% CI | Upper 95%CI |
| Intercept | -0.35 | -0.45 | -0.24 | -0.35 | -0.47 | -0.23 | -0.04 | -0.12 | 0.05 |
| Gini | 0.02 | -0.05 | 0.09 | 0.04 | -0.03 | 0.11 | 0.01 | -0.06 | 0.09 |
| Community Relative Wealth a | -0.04 | -0.08 | -0.00 |  |  |  |  |  |  |
| Sample Relative Wealth b |  |  |  | -0.05 | -0.09 | -0.01 | -0.04 | -0.08 | -0.00 |
| Mean Community Wealth c | -0.21 | -0.38 | -0.02 |  |  |  |  |  |  |
| Age | 0.26 | 0.21 | 0.30 | 0.25 | 0.21 | 0.30 |  |  |  |
| Sex=male | 0.21 | 0.14 | 0.28 | 0.21 | 0.14 | 0.28 |  |  |  |
| Household Size | 0.02 | -0.02 | 0.06 | 0.02 | -0.02 | 0.06 |  |  |  |
| Distance to San Borja | 0.12 | 0.04 | 0.20 | 0.09 | 0.01 | 0.17 |  |  |  |
| Community Size | 0.06 | -0.04 | 0.16 | 0.04 | -0.06 | 0.13 |  |  |  |
| sd(Community) N=40 | 0.18 | 0.11 | 0.25 | 0.19 | 0.12 | 0.27 | 0.20 | 0.14 | 0.28 |
| sd(Household) N=777 | 0.24 | 0.16 | 0.30 | 0.23 | 0.15 | 0.30 | 0.22 | 0.13 | 0.30 |
| sd(Individual) N=1622 | 0.29 | 0.21 | 0.37 | 0.29 | 0.21 | 0.37 | 0.36 | 0.29 | 0.43 |
| Goodness of fit (R2) | 0.24 | 0.20 | 0.28 | 0.24 | 0.20 | 0.28 | 0.23 | 0.19 | 0.27 |
| a Z-score centered on community mean | | | | | | | | | |
| b Z-score centered on full sample | | | | | | | | | |
| c Mean full sample Z-score for the community | | | | | | | | | |

## Table S10: Model summary – Worse Self-rated health

|  | Relative Wealth | | | Absolute Wealth | | | No Covariates | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| N=2523 Variable | Mean | Lower 5% CI | Upper 95%CI | Mean | Lower 95% CI | Upper 95%CI | Mean | Lower 95% CI | Upper 95%CI |
| Intercept | -0.08 | -0.20 | 0.04 | -0.08 | -0.19 | 0.04 | -0.03 | -0.09 | 0.04 |
| Gini | -0.02 | -0.08 | 0.06 | -0.01 | -0.07 | 0.06 | -0.02 | -0.08 | 0.04 |
| Community Relative Wealth a | -0.02 | -0.06 | 0.02 |  |  |  |  |  |  |
| Sample Relative Wealth b |  |  |  | -0.03 | -0.07 | 0.02 | -0.02 | -0.06 | 0.02 |
| Mean Community Wealth c | -0.07 | -0.24 | 0.12 |  |  |  |  |  |  |
| Age | 0.16 | 0.10 | 0.21 | 0.16 | 0.10 | 0.22 |  |  |  |
| Sex=male | -0.26 | -0.34 | -0.17 | -0.26 | -0.34 | -0.17 |  |  |  |
| Household Size | -0.00 | -0.05 | 0.04 | -0.00 | -0.04 | 0.04 |  |  |  |
| Distance to San Borja | 0.03 | -0.05 | 0.11 | 0.03 | -0.05 | 0.09 |  |  |  |
| Community Size | -0.00 | -0.09 | 0.10 | -0.00 | -0.09 | 0.09 |  |  |  |
| sd(Community) N=40 | 0.16 | 0.09 | 0.24 | 0.16 | 0.09 | 0.23 | 0.14 | 0.08 | 0.22 |
| sd(Household) N=689 | 0.07 | 0.00 | 0.16 | 0.07 | 0.00 | 0.16 | 0.07 | 0.00 | 0.16 |
| sd(Individual) N=1307 | 0.37 | 0.29 | 0.44 | 0.36 | 0.28 | 0.44 | 0.39 | 0.31 | 0.46 |
| Goodness of fit (R2) | 0.18 | 0.13 | 0.23 | 0.18 | 0.13 | 0.23 | 0.17 | 0.12 | 0.22 |
| a Z-score centered on community mean | | | | | | | | | |
| b Z-score centered on full sample | | | | | | | | | |
| c Mean full sample Z-score for the community | | | | | | | | | |

## Table S11: Model summary – Total morbidity

|  | Relative Wealth | | | Absolute Wealth | | | No Covariates | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| N=1542 Variable | Mean | Lower 5% CI | Upper 95%CI | Mean | Lower 95% CI | Upper 95%CI | Mean | Lower 95% CI | Upper 95%CI |
| Intercept | 0.20 | -0.08 | 0.46 | 0.20 | -0.06 | 0.45 | 0.38 | 0.17 | 0.57 |
| Gini | -0.07 | -0.28 | 0.15 | -0.06 | -0.24 | 0.13 | -0.12 | -0.29 | 0.08 |
| Community Relative Wealth a | -0.02 | -0.08 | 0.03 |  |  |  |  |  |  |
| Sample Relative Wealth b |  |  |  | -0.02 | -0.08 | 0.03 | -0.01 | -0.06 | 0.04 |
| Mean Community Wealth c | -0.03 | -0.58 | 0.48 |  |  |  |  |  |  |
| Age | 0.30 | 0.24 | 0.36 | 0.30 | 0.24 | 0.36 |  |  |  |
| Sex=male | -0.16 | -0.24 | -0.07 | -0.16 | -0.25 | -0.07 |  |  |  |
| Household Size | 0.01 | -0.05 | 0.07 | 0.01 | -0.05 | 0.07 |  |  |  |
| Distance to San Borja | 0.13 | -0.07 | 0.32 | 0.14 | -0.06 | 0.32 |  |  |  |
| Community Size | -0.05 | -0.32 | 0.22 | -0.06 | -0.29 | 0.20 |  |  |  |
| sd(Community) N=34 | 0.52 | 0.38 | 0.69 | 0.51 | 0.35 | 0.67 | 0.53 | 0.38 | 0.69 |
| sd(Household) N=653 | 0.35 | 0.27 | 0.43 | 0.35 | 0.27 | 0.42 | 0.32 | 0.23 | 0.41 |
| sd(Individual) N=1306 | 0.09 | 0.00 | 0.21 | 0.09 | 0.00 | 0.21 | 0.14 | 0.00 | 0.29 |
| Goodness of fit (R2) | 0.36 | 0.31 | 0.41 | 0.36 | 0.31 | 0.41 | 0.31 | 0.25 | 0.37 |
| a Z-score centered on community mean | | | | | | | | | |
| b Z-score centered on full sample | | | | | | | | | |
| c Mean full sample Z-score for the community | | | | | | | | | |

## Table S12: Model summary – Infections

|  | Relative Wealth | | | Absolute Wealth | | | No Covariates | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| N=1542 Variable | Mean | Lower 5% CI | Upper 95%CI | Mean | Lower 95% CI | Upper 95%CI | Mean | Lower 95% CI | Upper 95%CI |
| Intercept | -1.69 | -2.39 | -0.87 | -1.70 | -2.49 | -0.94 | -1.33 | -1.86 | -0.77 |
| Gini | -0.62 | -1.20 | -0.01 | -0.68 | -1.24 | -0.16 | -0.61 | -1.11 | -0.12 |
| Community Relative Wealth a | -0.06 | -0.24 | 0.11 |  |  |  |  |  |  |
| Sample Relative Wealth b |  |  |  | -0.05 | -0.21 | 0.13 | -0.03 | -0.19 | 0.12 |
| Mean Community Wealth c | 0.21 | -1.00 | 1.44 |  |  |  |  |  |  |
| Age | 0.52 | 0.30 | 0.71 | 0.52 | 0.32 | 0.72 |  |  |  |
| Sex=male | -0.43 | -0.73 | -0.14 | -0.43 | -0.73 | -0.15 |  |  |  |
| Household Size | 0.20 | -0.01 | 0.38 | 0.19 | 0.01 | 0.38 |  |  |  |
| Distance to San Borja | -0.20 | -0.76 | 0.39 | -0.15 | -0.68 | 0.36 |  |  |  |
| Community Size | -0.34 | -1.07 | 0.37 | -0.31 | -0.99 | 0.42 |  |  |  |
| sd(Community) N=34 | 1.49 | 1.01 | 2.06 | 1.49 | 0.98 | 2.10 | 1.38 | 0.96 | 1.89 |
| sd(Household) N=653 | 1.02 | 0.64 | 1.41 | 1.03 | 0.68 | 1.42 | 0.87 | 0.52 | 1.25 |
| sd(Individual) N=1306 | 0.24 | 0.00 | 0.58 | 0.24 | 0.00 | 0.60 | 0.21 | 0.00 | 0.51 |
| Goodness of fit (R2) | 0.32 | 0.26 | 0.38 | 0.32 | 0.26 | 0.38 | 0.28 | 0.21 | 0.33 |
| a Z-score centered on community mean | | | | | | | | | |
| b Z-score centered on full sample | | | | | | | | | |
| c Mean full sample Z-score for the community | | | | | | | | | |
| Note: Model is on the logit scale | | | | | | | | | |

## Table S13: Model summary – Respiratory illness

|  | Relative Wealth | | | Absolute Wealth | | | No Covariates | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| N=1542 Variable | Mean | Lower 5% CI | Upper 95%CI | Mean | Lower 95% CI | Upper 95%CI | Mean | Lower 95% CI | Upper 95%CI |
| Intercept | -1.63 | -2.28 | -1.00 | -1.61 | -2.29 | -1.02 | -1.67 | -2.19 | -1.20 |
| Gini | 0.35 | -0.08 | 0.88 | 0.31 | -0.09 | 0.75 | 0.22 | -0.20 | 0.59 |
| Community Relative Wealth a | -0.04 | -0.20 | 0.12 |  |  |  |  |  |  |
| Sample Relative Wealth b |  |  |  | -0.04 | -0.20 | 0.14 | -0.04 | -0.20 | 0.12 |
| Mean Community Wealth c | 0.16 | -0.97 | 1.20 |  |  |  |  |  |  |
| Age | -0.05 | -0.25 | 0.14 | -0.05 | -0.24 | 0.14 |  |  |  |
| Sex=male | -0.12 | -0.40 | 0.19 | -0.12 | -0.42 | 0.15 |  |  |  |
| Household Size | -0.05 | -0.24 | 0.13 | -0.05 | -0.22 | 0.14 |  |  |  |
| Distance to San Borja | 0.24 | -0.20 | 0.73 | 0.27 | -0.14 | 0.73 |  |  |  |
| Community Size | 0.05 | -0.50 | 0.64 | 0.08 | -0.48 | 0.60 |  |  |  |
| sd(Community) N=34 | 1.08 | 0.66 | 1.60 | 1.06 | 0.66 | 1.56 | 1.01 | 0.60 | 1.46 |
| sd(Household) N=653 | 0.95 | 0.58 | 1.31 | 0.94 | 0.58 | 1.29 | 0.89 | 0.52 | 1.23 |
| sd(Individual) N=1306 | 0.54 | 0.00 | 1.17 | 0.49 | 0.00 | 1.09 | 0.45 | 0.00 | 1.00 |
| Goodness of fit (R2) | 0.22 | 0.14 | 0.33 | 0.21 | 0.13 | 0.32 | 0.20 | 0.12 | 0.30 |
| a Z-score centered on community mean | | | | | | | | | |
| b Z-score centered on full sample | | | | | | | | | |
| c Mean full sample Z-score for the community | | | | | | | | | |
| Note: Model is on the logit scale | | | | | | | | | |

## Table S14: Model summary – Gastrointestinal illness

|  | Relative Wealth | | | Absolute Wealth | | | No Covariates | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| N=1542 Variable | Mean | Lower 5% CI | Upper 95%CI | Mean | Lower 95% CI | Upper 95%CI | Mean | Lower 95% CI | Upper 95%CI |
| Intercept | -0.86 | -1.25 | -0.50 | -0.85 | -1.22 | -0.50 | -0.67 | -0.99 | -0.35 |
| Gini | -0.12 | -0.44 | 0.21 | -0.05 | -0.32 | 0.20 | -0.24 | -0.54 | 0.05 |
| Community Relative Wealth a | -0.01 | -0.12 | 0.13 |  |  |  |  |  |  |
| Sample Relative Wealth b |  |  |  | -0.01 | -0.13 | 0.11 | 0.00 | -0.12 | 0.14 |
| Mean Community Wealth c | -0.32 | -1.07 | 0.45 |  |  |  |  |  |  |
| Age | 0.27 | 0.12 | 0.42 | 0.27 | 0.11 | 0.42 |  |  |  |
| Sex=male | -0.07 | -0.32 | 0.18 | -0.07 | -0.30 | 0.17 |  |  |  |
| Household Size | -0.09 | -0.22 | 0.05 | -0.08 | -0.22 | 0.05 |  |  |  |
| Distance to San Borja | 0.61 | 0.34 | 0.91 | 0.57 | 0.32 | 0.85 |  |  |  |
| Community Size | 0.12 | -0.20 | 0.47 | 0.08 | -0.26 | 0.39 |  |  |  |
| sd(Community) N=34 | 0.61 | 0.36 | 0.88 | 0.59 | 0.36 | 0.84 | 0.78 | 0.50 | 1.06 |
| sd(Household) N=653 | 0.38 | 0.00 | 0.68 | 0.37 | 0.00 | 0.68 | 0.39 | 0.01 | 0.70 |
| sd(Individual) N=1306 | 0.40 | 0.00 | 0.87 | 0.39 | 0.00 | 0.85 | 0.40 | 0.00 | 0.84 |
| Goodness of fit (R2) | 0.16 | 0.10 | 0.25 | 0.16 | 0.10 | 0.24 | 0.14 | 0.08 | 0.23 |
| a Z-score centered on community mean | | | | | | | | | |
| b Z-score centered on full sample | | | | | | | | | |
| c Mean full sample Z-score for the community | | | | | | | | | |
| Note: Model is on the logit scale | | | | | | | | | |

## Table S15: Gaussian model summaries for juveniles

|  | BMI | | | Total Morbidity | | | BMI | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| N=4748 Variable | Mean | Lower 5% CI | Upper 95%CI | Mean | Lower 95% CI | Upper 95%CI | Mean | Lower 95% CI | Upper 95%CI |
| Intercept | 0.05 | -0.09 | 0.20 | -0.13 | -0.37 | 0.11 | 0.05 | -0.09 | 0.20 |
| Gini | -0.06 | -0.12 | 0.02 | 0.03 | -0.16 | 0.24 | -0.06 | -0.12 | 0.02 |
| Community Relative Wealth a | -0.01 | -0.06 | 0.03 | -0.04 | -0.09 | 0.01 | -0.01 | -0.06 | 0.03 |
| Mean Community Wealth c | 0.05 | -0.13 | 0.24 | 0.20 | -0.27 | 0.65 | 0.05 | -0.13 | 0.24 |
| Age | 0.01 | -0.13 | 0.14 | 0.14 | -0.04 | 0.29 | 0.01 | -0.13 | 0.14 |
| Sex=male | 0.03 | -0.05 | 0.10 | -0.11 | -0.18 | -0.04 | 0.03 | -0.05 | 0.10 |
| Household Size | -0.03 | -0.10 | 0.03 | 0.00 | -0.06 | 0.06 | -0.03 | -0.10 | 0.03 |
| Distance to San Borja | -0.06 | -0.14 | 0.02 | 0.07 | -0.10 | 0.24 | -0.06 | -0.14 | 0.02 |
| Community Size | -0.04 | -0.11 | 0.05 | -0.17 | -0.38 | 0.02 | -0.04 | -0.11 | 0.05 |
| sd(Community) N=35 | 0.10 | 0.00 | 0.18 | 0.38 | 0.24 | 0.52 | 0.10 | 0.00 | 0.18 |
| sd(Household) N=538 | 0.43 | 0.38 | 0.48 | 0.37 | 0.31 | 0.43 | 0.43 | 0.38 | 0.48 |
| sd(Individual) N=1765 | 0.58 | 0.55 | 0.62 | 0.06 | 0.00 | 0.13 | 0.58 | 0.55 | 0.62 |
| Goodness of fit (R2) | 0.55 | 0.53 | 0.57 | 0.33 | 0.28 | 0.37 | 0.55 | 0.53 | 0.57 |
| a Z-score centered on community mean | | | | | | | | | |
| b Z-score centered on full sample | | | | | | | | | |
| c Mean full sample Z-score for the community | | | | | | | | | |

## Table S16: Logistic model summaries for juveniles

|  | Infection | | | Repiratory | | | Gastrointestinal | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| N=1569 Variable | Mean | Lower 5% CI | Upper 95%CI | Mean | Lower 95% CI | Upper 95%CI | Mean | Lower 95% CI | Upper 95%CI |
| Intercept | -0.37 | -1.38 | 0.63 | -2.39 | -3.16 | -1.61 | -0.97 | -1.73 | -0.22 |
| Gini | -0.23 | -0.87 | 0.44 | 0.21 | -0.29 | 0.68 | 0.17 | -0.36 | 0.66 |
| Community Relative Wealth a | 0.03 | -0.23 | 0.27 | -0.24 | -0.42 | -0.07 | 0.13 | -0.02 | 0.30 |
| Mean Community Wealth c | 0.81 | -0.59 | 2.08 | 0.10 | -0.94 | 1.19 | 0.49 | -0.62 | 1.61 |
| Age | 2.40 | 1.64 | 3.22 | -2.26 | -2.88 | -1.61 | -0.64 | -1.19 | -0.11 |
| Sex=male | -0.65 | -1.07 | -0.22 | -0.11 | -0.40 | 0.16 | 0.06 | -0.17 | 0.34 |
| Household Size | 0.09 | -0.20 | 0.40 | -0.01 | -0.22 | 0.24 | 0.10 | -0.10 | 0.28 |
| Distance to San Borja | 0.04 | -0.58 | 0.70 | 0.11 | -0.36 | 0.55 | 0.40 | -0.06 | 0.95 |
| Community Size | -0.71 | -1.48 | 0.05 | 0.03 | -0.48 | 0.55 | -0.37 | -0.90 | 0.21 |
| sd(Community) N=30 | 1.44 | 0.86 | 2.14 | 0.93 | 0.55 | 1.40 | 1.10 | 0.66 | 1.59 |
| sd(Household) N=469 | 1.26 | 0.89 | 1.73 | 1.14 | 0.86 | 1.45 | 0.85 | 0.60 | 1.14 |
| sd(Individual) N=1423 | 0.33 | 0.00 | 0.82 | 0.48 | 0.00 | 1.07 | 0.36 | 0.00 | 0.85 |
| Goodness of fit (R2) | 0.33 | 0.27 | 0.41 | 0.31 | 0.24 | 0.41 | 0.23 | 0.17 | 0.32 |
| a Z-score centered on community mean | | | | | | | | | |
| b Z-score centered on full sample | | | | | | | | | |
| c Mean full sample Z-score for the community | | | | | | | | | |