**Table S1. Association between socioeconomic status and individual performance measures of guideline-recommended care**

| Ischemic stroke patient without atrial fibrillation receives platelet inhibitor therapy within the second day of admission | | |
|---|---|---|
| Family income tertile | | |
| Low | 0.88 | (0.81 - 0.96) |
| Middle | 0.93 | (0.87 - 0.98) |
| High | Reference | |
| Employment status | | |
| Working | Reference | |
| Retired | 0.92 | (0.82 - 1.03) |
| Unemployed | 0.97 | (0.84 - 1.13) |
| Highest achieved education | | |
| Primary | 0.92 | (0.83 - 1.02) |
| Upper secondary | 0.99 | (0.90 - 1.09) |
| Higher | Reference | |
| Reference person | 3.03 | (2.26 - 4.04) |
| $R^2$ | 0.037 | |
| n | 53,567 | |

* Odds ratios (95% confidence interval) of individual performance measure fulfilment. Adjusted for gender, age, previous stroke, diabetes mellitus, hypertension, stroke severity and year. Multilevel modelling was used as the patient-level was nested in the hospital department-level.

**Table S2. Association between socioeconomic status and individual performance measures of guideline-recommended care**

| Ischemic stroke patient with atrial fibrillation receives oral anticoagulation therapy within 14 days after admission | | |
|---|---|---|
| Family income tertile | | |
| Low | 0.74 | (0.61 - 0.89) |
| Middle | 0.75 | (0.61 - 0.94) |
| High | Reference | |
| Employment status | | |
| Working | Reference | |
| Retired | 1.06 | (0.85 - 1.33) |
| Unemployed | 1.16 | (0.51 - 2.63) |
| Highest achieved education | | |
| Primary | 0.86 | (0.70 - 1.07) |
| Upper secondary | 0.82 | (0.65 - 1.03) |
| Higher | Reference | |
| Reference person | 0.68 | (0.38 - 1.20) |
| $R^2$ | 0.102 | |
| n | 6,207 | |

* Odds ratios (95% confidence interval) of individual performance measure fulfilment. Adjusted for gender, age, previous stroke, diabetes mellitus, hypertension, stroke severity and year. Multilevel modelling was used as the patient-level was nested in the hospital department-level.

**Table S3. Association between socioeconomic status and individual performance measures of guideline-recommended care**

| Stroke patient is examined with CT/MR-scan on the day of admission | | |
|---|---|---|
| Family income tertile | | |
| Low | 0.82 | (0.75 - 0.91) |
| Middle | 0.91 | (0.85 - 0.97) |
| High | Reference | |
| Employment status | | |
| Working | Reference | |
| Retired | 0.86 | (0.81 - 0.91) |
| Unemployed | 0.89 | (0.80 - 1.00) |
| Highest achieved education | | |
| Primary | 0.96 | (0.88 - 1.04) |
| Upper secondary | 0.98 | (0.90 - 1.06) |
| Higher | Reference | |
| Reference person | 3.22 | (2.54 - 4.09) |
| $R^2$ | 0.120 | |
| n | 73,724 | |

* Odds ratios (95% confidence interval) of individual performance measure fulfilment. Adjusted for gender, age, previous stroke, diabetes mellitus, hypertension, stroke severity and year. Multilevel modelling was used as the patient-level was nested in the hospital department-level.

**Table S4. Association between socioeconomic status and individual performance measures of guideline-recommended care**

| Stroke patient is assessed by a physiotherapist regarding need of rehabilitation (including type and extent) within 2 days of admission | | |
|---|---|---|
| Family income tertile | | |
| Low | 0.88 | (0.83 - 0.94) |
| Middle | 0.97 | (0.92 - 1.02) |
| High | Reference | |
| Employment status | | |
| Working | Reference | |
| Retired | 0.99 | (0.90 - 1.08) |
| Unemployed | 0.97 | (0.85 - 1.11) |
| Highest achieved education | | |
| Primary | 1.03 | (0.94 - 1.14) |
| Upper secondary | 1.04 | (0.97 - 1.11) |
| Higher | Reference | |
| Reference person | 0.85 | (0.62 - 1.16) |
| $R^2$ | 0.075 | |
| n | 60,472 | |

* Odds ratios (95% confidence interval) of individual performance measure fulfilment. Adjusted for gender, age, previous stroke, diabetes mellitus, hypertension, stroke severity and year. Multilevel modelling was used as the patient-level was nested in the hospital department-level.

**Table S5. Association between socioeconomic status and individual performance measures of guideline-recommended care**

| Stroke patient is assessed by an occupational therapist regarding need of rehabilitation (including type and extent) within the second day of admission | |
|---|---|
| Family income tertile | |
| Low | 0.88 (0.82 - 0.94) |
| Middle | 0.97 (0.92 - 1.02) |
| High | Reference |
| Employment status | |
| Working | Reference |
| Retired | 0.99 (0.92 - 1.06) |
| Unemployed | 0.95 (0.84 - 1.07) |
| Highest achieved education | |
| Primary | 0.98 (0.90 - 1.08) |
| Upper secondary | 1.01 (0.96 - 1.07) |
| Higher | Reference |
| Reference person | 0.76 (0.58 - 1.01) |
| $R^2$ | 0.082 |
| n | 61,387 |

\* Odds ratios (95% confidence interval) of individual performance measure fulfilment. Adjusted for gender, age, previous stroke, diabetes mellitus, hypertension, stroke severity and year. Multilevel modelling was used as the patient-level was nested in the hospital department-level.

**Table S6. Association between socioeconomic status and individual performance measures of guideline-recommended care**

| Stroke patient is mobilized on the day of admission | |
|---|---|
| Family income tertile | |
| Low | 0.75 (0.66 - 0.85) |
| Middle | 0.87 (0.80 - 0.94) |
| High | Reference |
| Employment status | |
| Working | Reference |
| Retired | 0.90 (0.82 - 0.99) |
| Unemployed | 0.84 (0.69 - 1.02) |
| Highest achieved education | |
| Primary | 1.03 (0.90 - 1.18) |
| Upper secondary | 1.08 (0.98 - 1.20) |
| Higher | Reference |
| Reference person | 0.29 (0.20 - 0.42) |
| $R^2$ | 0.156 |
| n | 30,307 |

\* Odds ratios (95% confidence interval) of individual performance measure fulfilment. Adjusted for gender, age, previous stroke, diabetes mellitus, hypertension, stroke severity and year. Multilevel modelling was used as the patient-level was nested in the hospital department-level.

**Table S7. Association between socioeconomic status and individual performance measures of guideline-recommended care**

| Stroke patient receives a nutritional risk assessment within the second day of admission | | |
|---|---|---|
| Family income tertile | | |
| Low | 0.78 | (0.73 - 0.84) |
| Middle | 0.88 | (0.83 - 0.93) |
| High | Reference | |
| Employment status | | |
| Working | Reference | |
| Retired | 0.88 | (0.80 - 0.97) |
| Unemployed | 0.92 | (0.81 - 1.05) |
| Highest achieved education | | |
| Primary | 1.00 | (0.91 - 1.11) |
| Upper secondary | 1.04 | (0.97 - 1.12) |
| Higher | Reference | |
| Reference person | 0.92 | (0.67 - 1.26) |
| $R^2$ | 0.070 | |
| n | 62,372 | |

* Odds ratios (95% confidence interval) of individual performance measure fulfilment. Adjusted for gender, age, previous stroke, diabetes mellitus, hypertension, stroke severity and year. Multilevel modelling was used as the patient-level was nested in the hospital department-level.

**Table S8. Association between socioeconomic status and individual performance measures of guideline-recommended care**

| Stroke patient is admitted to a stroke unit within the second day of admission | | |
|---|---|---|
| Family income tertile | | |
| Low | 0.76 | (0.68 - 0.85) |
| Middle | 0.83 | (0.76 - 0.91) |
| High | Reference | |
| Employment status | | |
| Working | Reference | |
| Retired | 1.00 | (0.91 - 1.09) |
| Unemployed | 1.08 | (0.89 - 1.31) |
| Highest achieved education | | |
| Primary | 0.97 | (0.85 - 1.11) |
| Upper secondary | 1.07 | (0.97 - 1.17) |
| Higher | Reference | |
| Reference person | 2.64 | (1.55 - 4.51) |
| $R^2$ | 0.046 | |
| n | 65,035 | |

* Odds ratios (95% confidence interval) of individual performance measure fulfilment. Adjusted for gender, age, previous stroke, diabetes mellitus, hypertension, stroke severity and year. Multilevel modelling was used as the patient-level was nested in the hospital department-level.

**Table S9. Association between socioeconomic status and individual performance measures of guideline-recommended care**

| Ischemic stroke patient is examined with ultrasound/ CT-/MR-angiography of | |
|---|---|

| carotid arteries within 4 days of admission | |
|---|---|
| Family income tertile<br>Low<br>Middle<br>High | 0.79 (0.70 - 0.88)<br>0.88 (0.81 - 0.96)<br>Reference |
| Employment status<br>Working<br>Retired<br>Unemployed | Reference<br>0.82 (0.74 - 0.91)<br>0.97 (0.82 - 1.16) |
| Highest achieved education<br>Primary<br>Upper secondary<br>Higher | 0.81 (0.72 - 0.90)<br>0.91 (0.83 - 1.00)<br>Reference |
| Reference person<br>$R^2$<br>n | 0.56 (0.31 - 1.00)<br>0.152<br>36,822 |

* Odds ratios (95% confidence interval) of individual performance measure fulfilment. Adjusted for gender, age, previous stroke, diabetes mellitus, hypertension, stroke severity and year. Multilevel modelling was used as the patient-level was nested in the hospital department-level.


**Table S10. Association between socioeconomic status and individual performance measures of guideline-recommended care**

| Stroke patient is admitted to a hospital within 3 hours after symptom onset | |
|---|---|
| Family income tertile<br>Low<br>Middle<br>High | 0.67 (0.63 - 0.73)<br>0.82 (0.77 - 0.88)<br>Reference |
| Employment status<br>Working<br>Retired<br>Unemployed | Reference<br>0.82 (0.76 - 0.89)<br>1.05 (0.94 - 1.18) |
| Highest achieved education<br>Primary<br>Upper secondary<br>Higher | 0.94 (0.86 - 1.03)<br>0.97 (0.90 - 1.05)<br>Reference |
| Reference person<br>$R^2$<br>n | 2.37 (1.72 - 3.27)<br>0.052<br>28,379 |

* Odds ratios (95% confidence interval) of individual performance measure fulfilment. Adjusted for gender, age, previous stroke, diabetes mellitus, hypertension, stroke severity and year. Multilevel modelling was used as the patient-level was nested in the hospital department-level.

**Table S11. Association between socioeconomic status and individual performance measures of guideline-recommended care**

| Stroke patient is admitted to a hospital within 4.5 hours of symptom onset | |
|---|---|
| Family income tertile | |

| | | |
|---|---|---|
| Low | 0.68 | (0.63 - 0.74) |
| Middle | 0.81 | (0.76 - 0.87) |
| High | Reference | |
| Employment status | | |
| Working | Reference | |
| Retired | 0.83 | (0.77 - 0.91) |
| Unemployed | 1.05 | (0.94 - 1.18) |
| Highest achieved education | | |
| Primary | 0.98 | (0.89 - 1.06) |
| Upper secondary | 0.98 | (0.91 - 1.05) |
| Higher | Reference | |
| Reference person | 3.72 | (2.76 - 5.00) |
| $R^2$ | 0.050 | |
| n | 28,379 | |

\* Odds ratios (95% confidence interval) of individual performance measure fulfilment. Adjusted for gender, age, previous stroke, diabetes mellitus, hypertension, stroke severity and year. Multilevel modelling was used as the patient-level was nested in the hospital department-level.

**Table S12. Association between socioeconomic status and individual performance measures of guideline-recommended care**

| | | |
|---|---|---|
| Stroke patient receives indirect swallowing test on the day of admission before receiving food or fluids to assess swallowing function and risk of aspiration | | |
| Family income tertile | | |
| Low | 0.85 | (0.76 - 0.96) |
| Middle | 0.92 | (0.83 - 1.02) |
| High | Reference | |
| Employment status | | |
| Working | Reference | |
| Retired | 0.89 | (0.77 - 1.02) |
| Unemployed | 0.87 | (0.65 - 1.16) |
| Highest achieved education | | |
| Primary | 0.88 | (0.77 - 0.99) |
| Upper secondary | 0.99 | (0.87 - 1.13) |
| Higher | Reference | |
| Reference person | 4.45 | (3.10 - 6.40) |
| $R^2$ | 0.010 | |
| n | 24,360 | |

\* Odds ratios (95% confidence interval) of individual performance measure fulfilment. Adjusted for gender, age, previous stroke, diabetes mellitus, hypertension, stroke severity and year. Multilevel modelling was used as the patient-level was nested in the hospital department-level.

**Table S13. Association between socioeconomic status and individual performance measures of guideline-recommended care**

| | | |
|---|---|---|
| Stroke patient receives direct swallowing test on the day of admission before receiving food or fluids to assess swallowing function and risk of aspiration | | |

| | | |
|---|---|---|
| **Family income tertile** | | |
| Low | 0.86 | (0.77 - 0.96) |
| Middle | 0.92 | (0.85 - 1.01) |
| High | Reference | |
| **Employment status** | | |
| Working | Reference | |
| Retired | 0.86 | (0.74 - 1.01) |
| Unemployed | 0.89 | (0.67 - 1.18) |
| **Highest achieved education** | | |
| Primary | 0.89 | (0.78 - 1.02) |
| Upper secondary | 1.00 | (0.87 - 1.15) |
| Higher | Reference | |
| Reference person | 2.31 | (1.55 - 3.43) |
| $R^2$ | 0.015 | |
| n | 21,454 | |

\* Odds ratios (95% confidence interval) of individual performance measure fulfilment. Adjusted for gender, age, previous stroke, diabetes mellitus, hypertension, stroke severity and year. Multilevel modelling was used as the patient-level was nested in the hospital department-level.

**Table S14. Association between socioeconomic status and individual performance measures of guideline-recommended care**

| Ischemic stroke patient undergoes carotid endarterectomy within 14 days of admission | | |
|---|---|---|
| **Family income tertile** | | |
| Low | 0.82 | (0.48 - 1.40) |
| Middle | 0.89 | (0.57 - 1.38) |
| High | Reference | |
| **Employment status** | | |
| Working | Reference | |
| Retired | 0.57 | (0.34 - 0.97) |
| Unemployed | 1.08 | (0.26 - 4.50) |
| **Highest achieved education** | | |
| Primary | 1.32 | (0.71 - 2.44) |
| Upper secondary | 1.25 | (0.79 - 1.98) |
| Higher | Reference | |
| Reference person | 0.44 | (0.07 - 2.71) |
| $R^2$ | 0.075 | |
| n | 656 | |

\* Odds ratios (95% confidence interval) of individual performance measure fulfilment. Adjusted for gender, age, previous stroke, diabetes mellitus, hypertension, stroke severity and year. Multilevel modelling was used as the patient-level was nested in the hospital department-level.

**Table S15. Association between socioeconomic status and individual performance measures of guideline-recommended care**

| Stroke patient is treated with thrombolysis and has a door to needle time within 1 hour | | |
|---|---|---|
| **Family income tertile** | | |

| | | |
|---|---|---|
| Low | 1.17 | (0.75 - 1.83) |
| Middle | 0.93 | (0.74 - 1.17) |
| High | Reference | |
| Employment status | | |
| Working | Reference | |
| Retired | 0.78 | (0.63 - 0.96) |
| Unemployed | 0.87 | (0.52 - 1.48) |
| Highest achieved education | | |
| Primary | 0.90 | (0.73 - 1.10) |
| Upper secondary | 1.04 | (0.87 - 1.24) |
| Higher | Reference | |
| Reference person | 1.15 | (0.53 - 2.48) |
| $R^2$ | 0.062 | |
| n | 3,299 | |

\* Odds ratios (95% confidence interval) of individual performance measure fulfilment. Adjusted for gender, age, previous stroke, diabetes mellitus, hypertension, stroke severity and year. Multilevel modelling was used as the patient-level was nested in the hospital department-level.
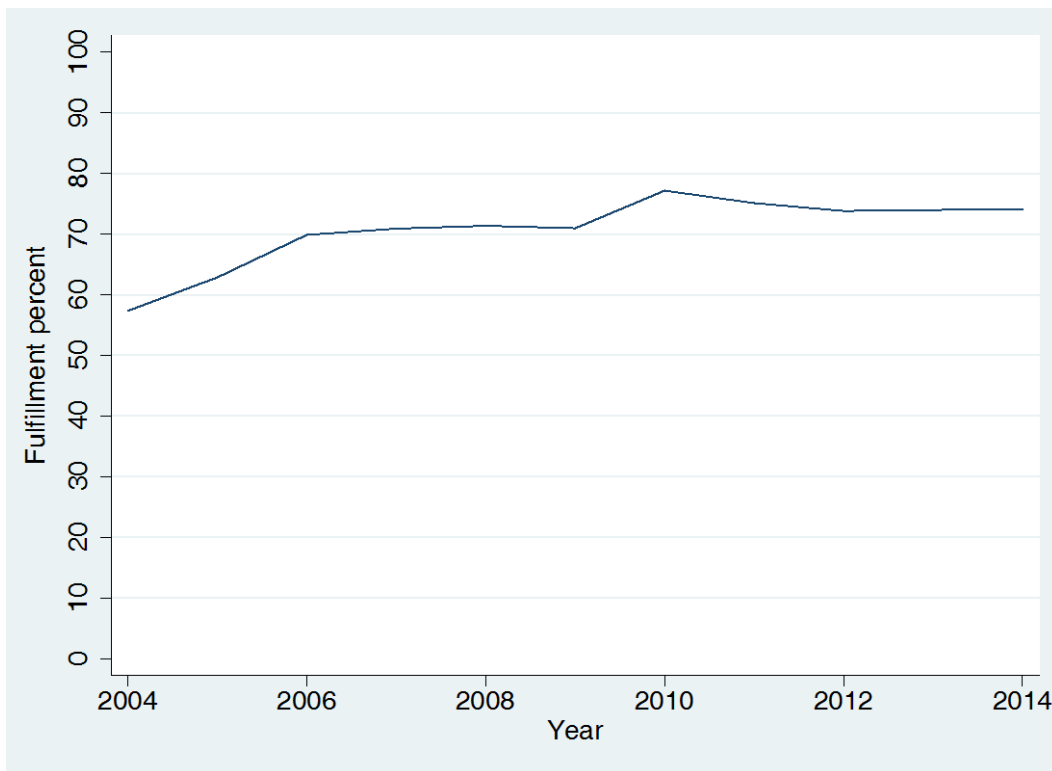
**Table S16. Association between socioeconomic status and individual performance measures of guideline-recommended care**

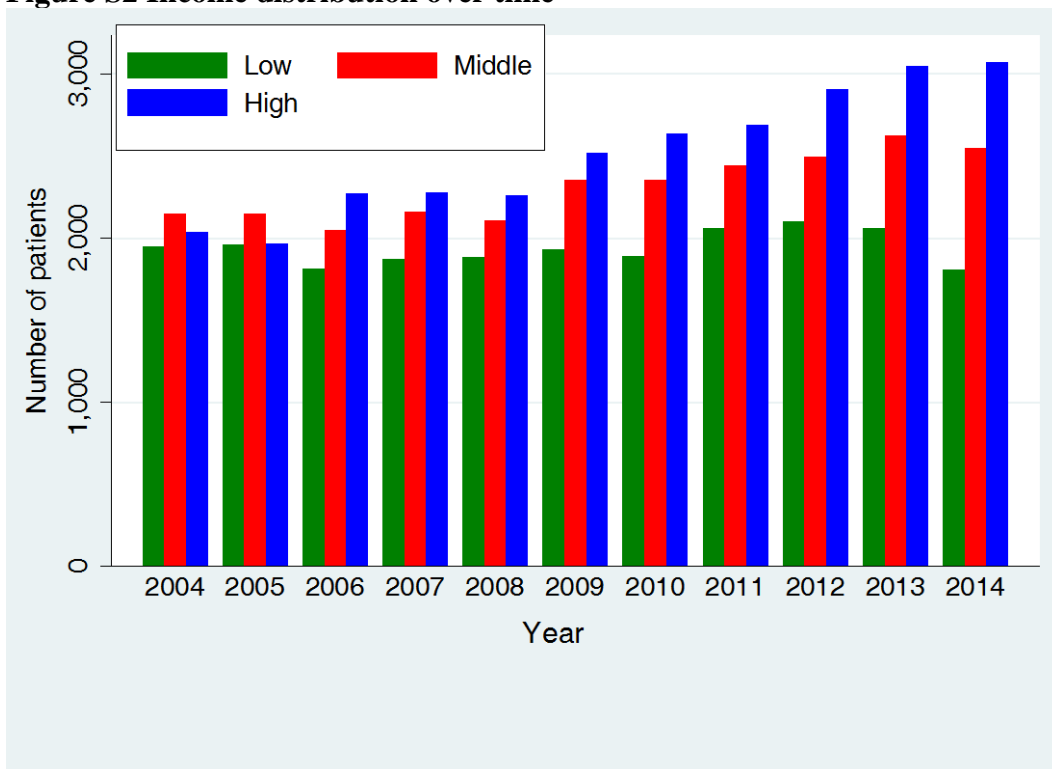| Ischemic stroke patient receives thrombolysis | | |
|---|---|---|
| Family income tertile | | |
| Low | 0.47 | (0.42 - 0.53) |
| Middle | 0.67 | (0.59 - 0.75) |
| High | Reference | |
| Employment status | | |
| Working | Reference | |
| Retired | 0.76 | (0.68 - 0.84) |
| Unemployed | 1.07 | (0.91 - 1.26) |
| Highest achieved education | | |
| Primary | 0.94 | (0.79 - 1.12) |
| Upper secondary | 0.95 | (0.81 - 1.12) |
| Higher | Reference | |
| Reference person | 0.34 | (0.17 - 0.68) |
| $R^2$ | 0.084 | |
| n | 25,123 | |

\* Odds ratios (95% confidence interval) of individual performance measure fulfilment. Adjusted for gender, age, previous stroke, diabetes mellitus, hypertension, stroke severity and year. Multilevel modelling was used as the patient-level was nested in the hospital department-level.

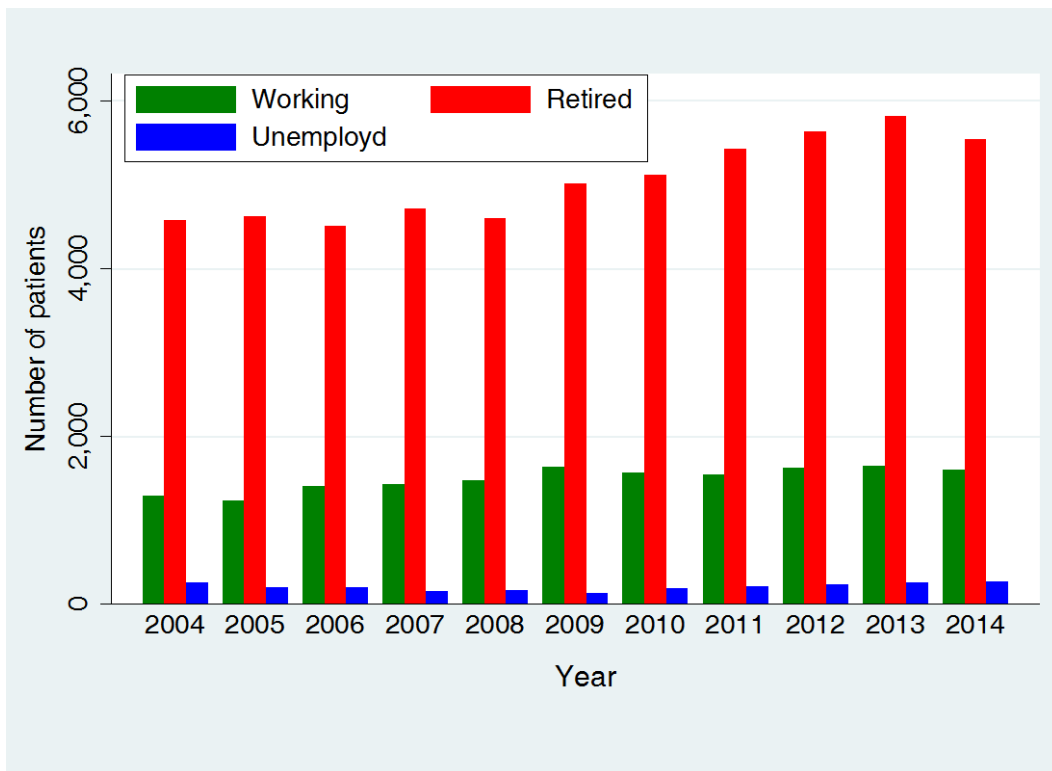**Figure S1 Average crude performance over time**

**Figure S2 Income distribution over time**



**Figure S3 Employment distribution over time**

**Figure S4 Education distribution over time**