**Research Replicability and Workflow Management**

**Research Question**: How does being a grandparent affects the wellbeing of Canadian elderly?

**Dataset**: GSS 2017 (Cycle 31 Family)

**Analytical Sample**: Aged 45 and over

**Variables of Interest**: subjective wellbeing (slm\_01), grandfather status (grndpa), gender(sex), number of grandchildren (ngrdchdc), level of education (ehg3\_01b), age (agec), income (famincg2).

**Data Operations**

1. Population weight is applied.
2. Variables are recoded for missing values if any. Binary variables (grandfather status and gender) are recoded to as 1 (yes = 1, female = 1) and 0 (no = 0, male = 0).
3. Variables and variable categories are labelled as indicated in the GSS 2017 codebook.
4. Descriptive tables are constructed for categorical and continuous variables. Distributions are shown by grandparent status.

**Tabulation of gender gparent\_status**

|  |  |  |  |
| --- | --- | --- | --- |
| Gender | Grandparent Status (%) | | |
|  | No | Yes | Total |
| Male | 52.20 | 47.80 | 100.00 |
| Female | 43.68 | 56.32 | 100.00 |
| Total | 47.47 | 52.53 | 100.00 |
|  | | | |

**Tabulation of education gparent\_status**

|  |  |  |  |
| --- | --- | --- | --- |
| Level of Education | Grandparent Status (%) | | |
|  | No | Yes | Total |
| Less than high school diploma or its equivalent | 27.26 | 72.74 | 100.00 |
| High school diploma or a high school equivalency certificate | 42.63 | 57.37 | 100.00 |
| Trade certificate or diploma | 42.32 | 57.68 | 100.00 |
| College, CEGEP or other non-university certificate | 52.83 | 47.17 | 100.00 |
| University certificate or diploma below the bachelor's level | 46.94 | 53.06 | 100.00 |
| Bachelor's degree | 64.20 | 35.80 | 100.00 |
| University certificate, diploma or degree above Bachelors | 64.08 | 35.92 | 100.00 |
| Total | 47.44 | 52.56 | 100.00 |
|  | | | |

**Tabulation of income gparent\_status**

|  |  |  |  |
| --- | --- | --- | --- |
| Level of Income | Grandparent Status (%) | | |
| No | Yes | Total |
| Less than $25,000 | 42.71 | 57.29 | 100.00 |
| $25,000 to $49,999 | 39.25 | 60.75 | 100.00 |
| $50,000 to $74,999 | 43.70 | 56.30 | 100.00 |
| $75,000 to $99,999 | 45.83 | 54.17 | 100.00 |
| $100,000 to $124,999 | 53.18 | 46.82 | 100.00 |
| $125,000 and more | 62.59 | 37.41 | 100.00 |
| Total | 47.47 | 52.53 | 100.00 |
|  | | | |

**Summary Stats of Variables by Grandparent Status   
Grandparent Status: No**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Mean | SD | Min | Max |
| Subjective Wellbeing | 7.988 | 1.73 | 0.000 | 10 |
| Number of Grandchildren | 0 | 0 | 0.000 | 0 |
| Age | 57.875 | 9.09 | 45.000 | 80 |

**Grandparent Status: Yes**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Subjective Wellbeing | 8.275 | 1.636 | 0.000 | 10 |
| Number of Grandchildren | 4.143 | 2.996 | 1.000 | 15 |
| Age | 67.957 | 8.657 | 45.000 | 80 |

1. OLS regression is conducted as a single model including all variables of control.

Regression Model for Subjective Wellbeing

|  |  |
| --- | --- |
|  | (1) |
|  | Subjective Wellbeing |
| Grandparent Status | 1.14\*\*\* |
|  | (0.05) |
| Gender | 1.09\*\*\* |
|  | (0.03) |
| Number of Grandchildren | 1.03\*\*\* |
|  | (0.01) |
| Level of Education | 1.00 |
|  | (0.01) |
| Age | 1.02\*\*\* |
|  | (0.00) |
| Level of Income | 1.25\*\*\* |
|  | (0.01) |
| Observations | 12624 |

Exponentiated coefficients; Standard errors in parentheses

\* *p* < 0.10, \*\* *p* < 0.05, \*\*\* *p* < 0.01