|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Z-BMI BOYS | | | | | | | | | Z-BMI GIRLS | | | | | | | | | |
| 1966 | | 1978 | | 1988 | | | 2012 | | 1966 | | 1978 | | | 1988 | | | 2012 | |
| city - town | \*\*\* | | \*\*\* | | ns | | | ns | | \*\* | | \*\*\* | | | ns | | | ns | |
| town - village | ns | | ns | | ns | | | ns | | \*\*\* | | ns | | | ns | | | ns | |
| city - village | \*\*\* | | \*\*\* | | ns | | | ns | | \*\*\* | | \*\*\* | | | ns | | | ns | |
|  | city | | | town | | village | | | city | | | | town | | | village | | | | |
| 1966 - 1978 | ns | | | ns | | ns | | | ns | | | | ns | | | \*\*\* | | | | |
| 1978 - 1988 | ns | | | \*\*\* | | \*\*\* | | | ns | | | | \*\* | | | \*\*\* | | | | |
| 1988 - 2012 | \*\*\* | | | \*\*\* | | \*\*\* | | | \*\*\* | | | | \*\* | | | \*\*\* | | | | |
|  | Z-MUAC BOYS | | | | | | | | | Z-MUAC GIRLS | | | | | | | | | |
| 1966 | | 1978 | | 1988 | | | 2012 | | 1966 | | 1978 | | | 1988 | | | 2012 | |
| city - town | ns | | \*\*\* | | \*\*\* | | | ns | | ns | | \*\*\* | | | \*\*\* | | | ns | |
| town - village | \*\*\* | | \*\*\* | | \* | | | ns | | \*\*\* | | ns | | | ns | | | ns | |
| city - village | \*\*\* | | \*\*\* | | \*\*\* | | | ns | | \*\* | | \*\*\* | | | \*\*\* | | | ns | |
|  | | city | | town | | | village | | | | city | | | town | | | village | |
| 1966 - 1978 | | \*\*\* | | \*\*\* | | | \*\*\* | | | | \*\*\* | | | ns | | | \*\*\* | |
| 1978 - 1988 | | ns | | ns | | | \*\*\* | | | | ns | | | ns | | | ns | |
| 1988 - 2012 | | \*\*\* | | \*\*\* | | | \*\*\* | | | | ns | | | \*\*\* | | | \*\*\* | |

Table S1. Results of Tukey’s *post-hoc* comparisons for Z-BMI (body mass index standardized for age) and Z-MUAC (mid-upper arm circumference standardized for age) in both sexes between different categories of urbanization in subsequent years of Surveys among Polish schoolchildren

ns- non significant, \*p<0.05, \*\*p<0.01, \*\*\*p<0.001

Table S2. Results of Tukey’s *post-hoc* comparisons for Z-BMI (body mass index standardized for age) and Z-MUAC (mid-upper arm circumference standardized for age) in both sexes between different categories of family size in subsequent years of Surveys among Polish schoolchildren

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Z-BMI BOYS | | | | Z-BMI GIRLS | | | |
| 1966 | 1978 | 1988 | 2012 | 1966 | 1978 | 1988 | 2012 |
| 1 child - 2 children | ns | \*\*\* | ns | ns | ns | \*\*\* | ns | ns |
| 1 child - 3 children | ns | \*\*\* | \* | ns | ns | \*\*\* | ns | ns |
| 1 child - 4 or more children | \* | \*\*\* | \*\* | \* | ns | \*\*\* | ns | \* |
| 2 children - 3 children | \*\* | \* | ns | ns | ns | ns | ns | ns |
| 2 children - 4 or more children | \*\*\* | \*\*\* | ns | ns | \*\* | ns | ns | ns |
| 3 children - 4 or more children | ns | ns | ns | ns | ns | ns | ns | ns |
|  | 1 child | 2 children | 3 children | 4 or more  children | 1 child | 2 children | 3 children | 4 or more  children |
| 1966 - 1978 | \*\*\* | ns | ns | ns | \* | \* | ns | \*\*\* |
| 1978 - 1988 | ns | ns | \* | \*\*\* | ns | ns | ns | ns |
| 1988 - 2012 | \*\*\* | \*\*\* | \*\*\* | ns | \*\*\* | \*\*\* | \*\*\* | ns |
|  | Z-MUAC BOYS | | | | Z-MUAC GIRLS | | | |
| 1966 | 1978 | 1988 | 2012 | 1966 | 1978 | 1988 | 2012 |
| 1 child - 2 children | ns | \*\*\* | ns | ns | ns | \*\*\* | ns | ns |
| 1 child - 3 children | \*\*\* | \*\*\* | \*\*\* | \* | ns | \*\*\* | \*\*\* | ns |
| 1 child - 4 or more children | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\* |
| 2 children - 3 children | \*\*\* | \*\*\* | \*\*\* | ns | ns | \*\*\* | \*\* | ns |
| 2 children - 4 or more children | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\* | ns |
| 3 children - 4 or more children | \* | \*\*\* | ns | ns | \*\*\* | ns | ns | ns |
|  | 1 child | 2 children | 3 children | 4 or more  children | 1 child | 2 children | 3 children | 4 or more  children |
| 1966 - 1978 | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | ns | \*\*\* |
| 1978 - 1988 | \*\*\* | \* | ns | ns | ns | ns | ns | ns |
| 1988 - 2012 | \*\*\* | \*\*\* | \*\*\* | \*\* | \*\*\* | \*\*\* | \*\*\* | \* |

ns- non significant, \*p<0.05, \*\*p<0.01, \*\*\*p<0.001

Table S3. Results of Tukey’s *post-hoc* comparisons for Z-BMI (body mass index standardized for age) and Z-MUAC (mid-upper arm circumference standardized for age) in both sexes between different categories of father’s and mother’s education in subsequent years of Surveys among Polish schoolchildren

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Z-BMI BOYS | | | | Z-BMI GIRLS | | | |
| 1966 | 1978 | 1988 | 2012 | 1966 | 1978 | 1988 | 2012 |
| father’s lower - higher education | \*\* | \*\*\* | ns | ns | \*\*\* | ns | ns | ns |
| mother’s lower - higher education | \*\*\* | \*\*\* | \* | ns | \* | ns | ns | ns |
|  | father’s  lower education | father’s  higher education | mother’s  lower education | mother’s  higher  education | father’s  lower education | father’s  higher education | mother’s  lower education | mother’s  higher  education |
| 1966 - 1978 | ns | \*\*\* | ns | ns | \*\*\* | ns | \*\*\* | \* |
| 1978 - 1988 | \*\*\* | ns | \*\*\* | ns | \*\* | ns | \*\* | ns |
| 1988 - 2012 | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\* |
|  | Z-MUAC BOYS | | | | Z-MUAC GIRLS | | | |
| 1966 | 1978 | 1988 | 2012 | 1966 | 1978 | 1988 | 2012 |
| father’s lower - higher education | \*\*\* | \*\*\* | \*\*\* | ns | \*\*\* | \*\*\* | ns | ns |
| mother’s lower - higher education | \*\*\* | \*\*\* | \*\*\* | ns | \*\*\* | \*\*\* | \* | ns |
|  | father’s  lower education | father’s  higher education | mother’s  lower education | mother’s  higher education | father’s  lower education | father’s  higher education | mother’s  lower education | mother’s  higher education |
| 1966 - 1978 | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \* | \*\*\* | \* |
| 1978 - 1988 | ns | \*\*\* | ns | \*\*\* | ns | \*\* | ns | \*\*\* |
| 1988 - 2012 | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* | \*\*\* |

ns- non significant, \*p<0.05, \*\*p<0.01, \*\*\*p<0.001