

Missing Values in Survey Data

Method: Missing Values in Survey Data

Method type: data_quality_analysis

Design: Observed missingness inventory at cell, row, and variable levels, with no artificial missing values introduced.

Variables: school, sex, age, address, famsize, Pstatus, Medu, Fedu, Mjob, Fjob, reason, guardian, traveltime, studytime, failures, schoolsup, famsup, paid, activities, nursery, higher, internet, romantic, famrel, freetime, goout, Dalc, Walc, health, absences, G1, G2, G3

Inference scope: No missingness test is required because the supplied dataset contains no missing cells; MCAR testing and imputation are therefore not applicable.

Formula: $\text{missing_pct_j} = 100 * m_j / n$; $\text{complete_case_i} = I(\text{row_missing_i} = 0)$.

Source rows: 649

Calculated metrics:

total_missing_cells: 0

columns_with_missing: 0

rows_with_missing: 0

complete_cases: 649

complete_case_percent: 100

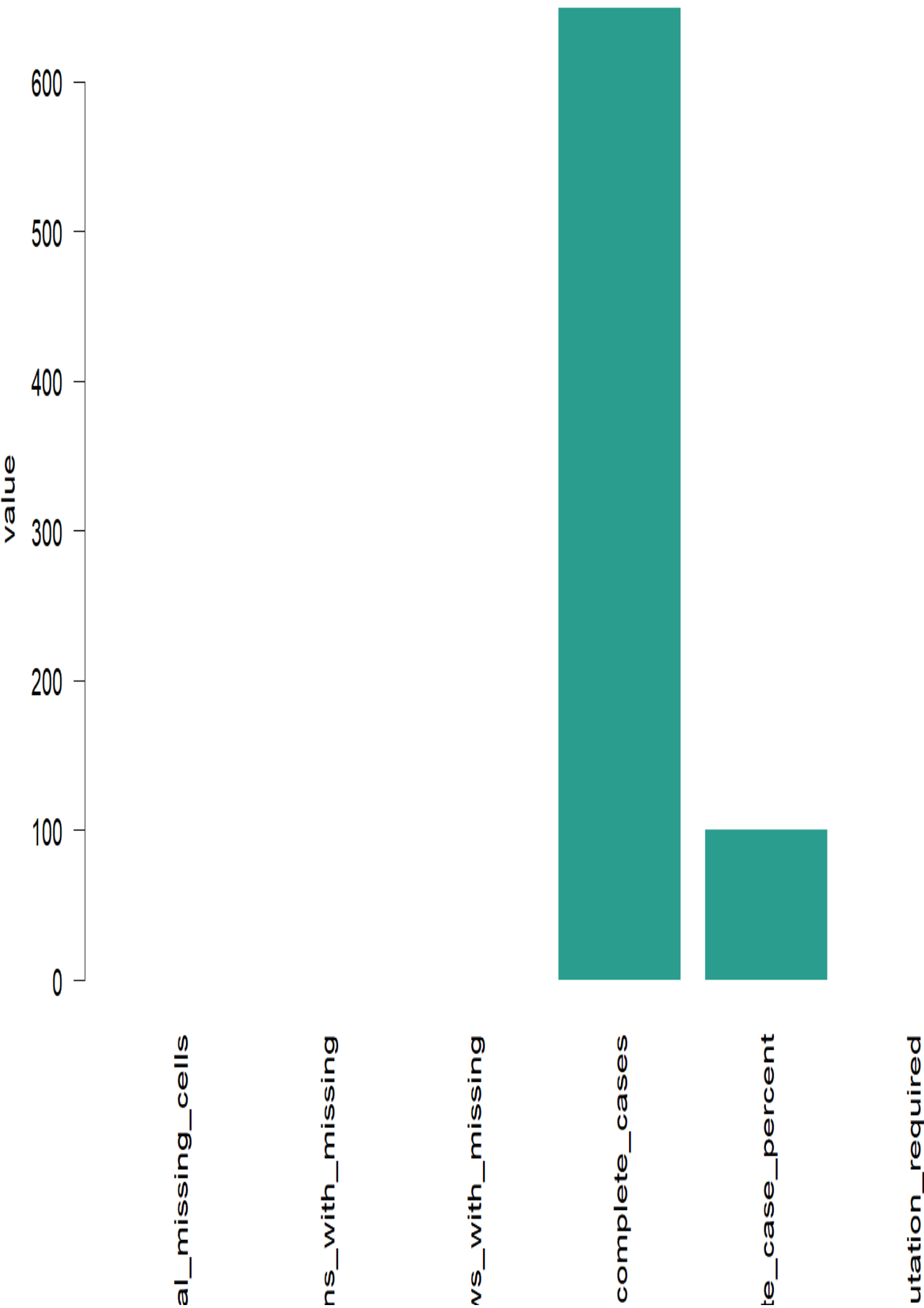
imputation_required: FALSE

Interpretation:

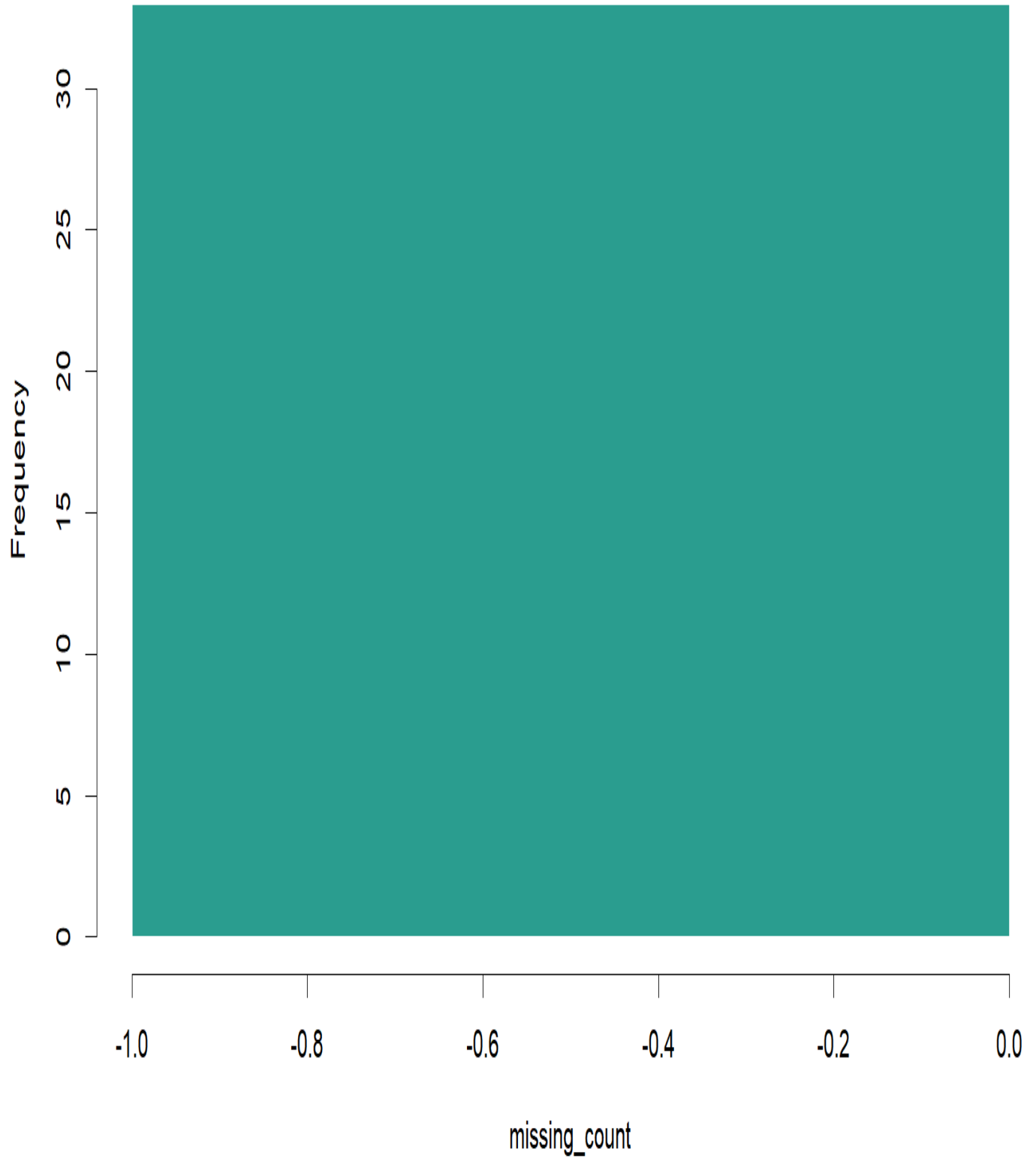
The dataset has no missing cells.

Imputation and MCAR inference are not applicable.

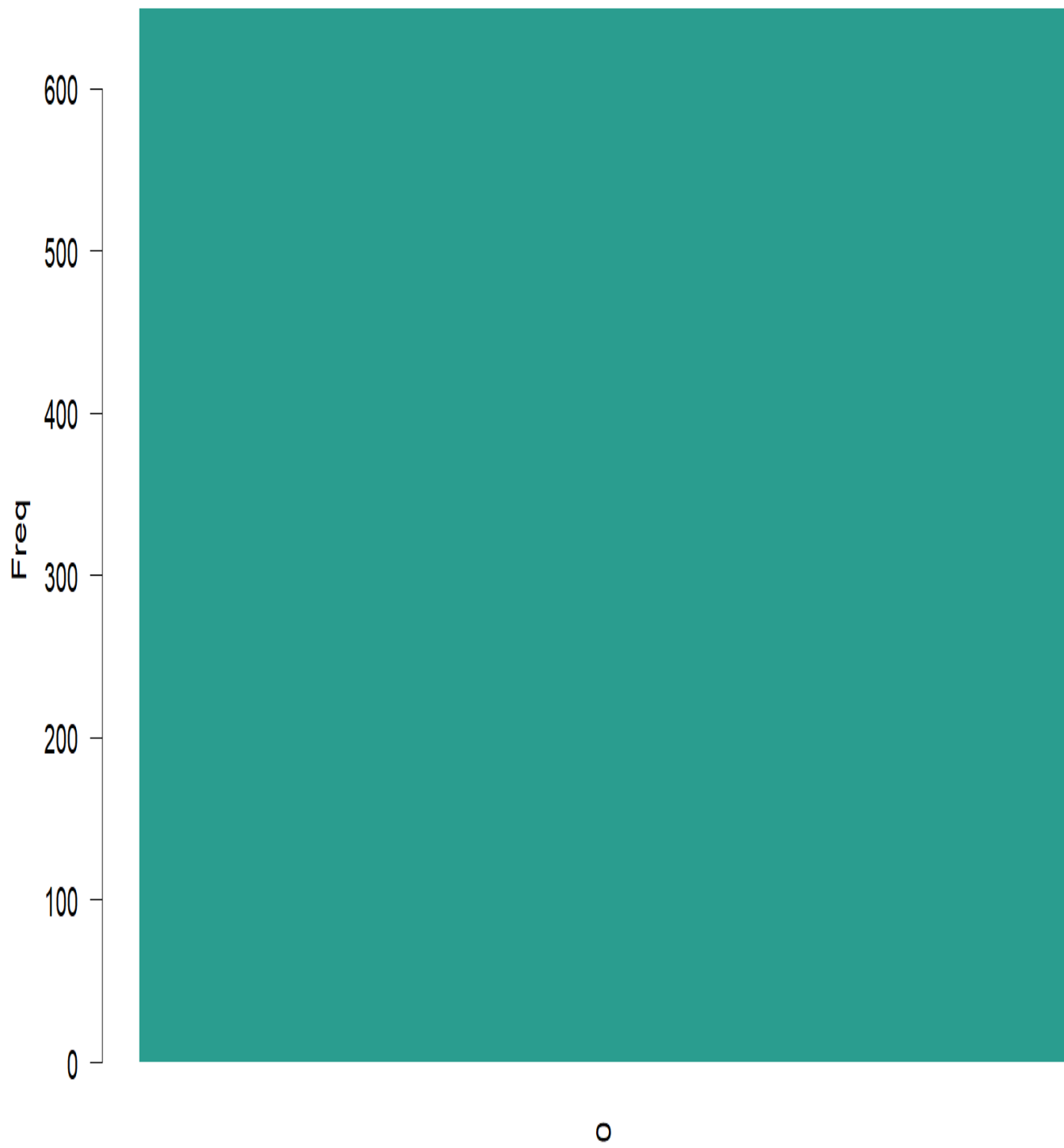
Missing Values in Survey Data - primary metrics



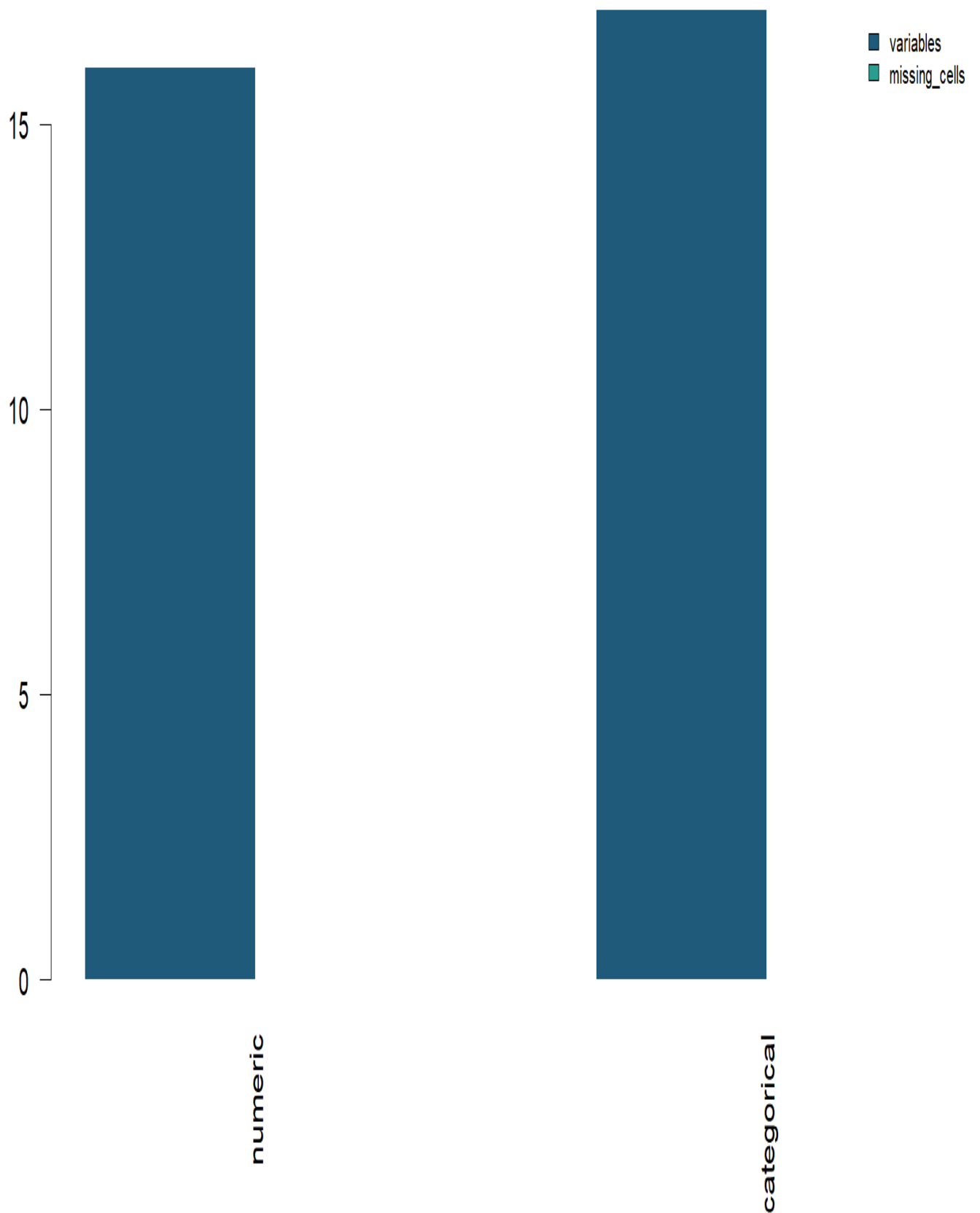
Missing Values in Survey Data - column missingness



Missing Values in Survey Data - row missingness distribution



Missing Values in Survey Data - completeness by type



Missing Values in Survey Data verified results

