PhenoQC Quality Control Report

Source file: quality_metrics_input.csv

Summary

Imputation Strategy	Mean
Schema Validation Score	33.33%
Missing Data Score	97.44%
Mapping Success Score	0.00%
Overall Quality Score	43.59%

Data Quality Scores:

Schema Validation Score: 33.33% Missing Data Score: 97.44% Mapping Success Score: 0.00% Overall Quality Score: 43.59%

Schema Validation Results

Format Validation: False

Duplicate Records: 2 issues found. **Conflicting Records:** 2 issues found. **Integrity Issues:** 2 issues found.

Referential Integrity Issues: No issues found.

Anomalies Detected: No issues found.

Invalid Mask: 3 issues found.

Accuracy Issues: 1 issues found.

Redundancy Issues: 4 issues found.

Traceability Issues: 3 issues found.

Timeliness Issues: 2 issues found.

Additional Quality Dimensions

Accuracy Issues: 1 issues found.

row	column	value	minimum	maximum
1	Height_cm	-5	0	None

Redundancy Issues: 4 issues found.

column_1	column_2	metric	value
Height_cm	Cholesterol_mgdl	correlation	1.0
Weight_kg	Creatinine_mgdl	correlation	0.99999999999994
BP_systolic	BP_diastolic	correlation	1.0
Height_cm	Cholesterol_mgdl	identical	1.0

Traceability Issues: 3 issues found.

row	issue
0	duplicate_identifier
1	duplicate_identifier
2	missing_identifier

Timeliness Issues: 2 issues found.

SampleID	Height_cm	Weight_kg	Cholesterol_m	BP_systoli	BP_diastoli	Glucose_m	Creatinine_m	PrimaryPhenot	VisitDate	SchemaViolationF	issue
			gdl	С	С	gdl	gdl	уре		lag	
1.0	170	70	170	120	60	90	1.0	HP:0001250	2025-07-29	False	lag_exceeded
nan	180	75	180	140	70	100	1.1	HP:0000001	not_a_date	True	missing_or_invalid_date

Missing Data Summary

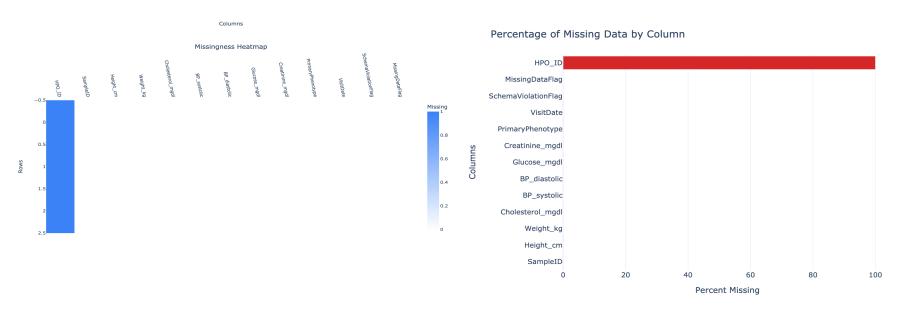
Column	Missing Count
SampleID	1

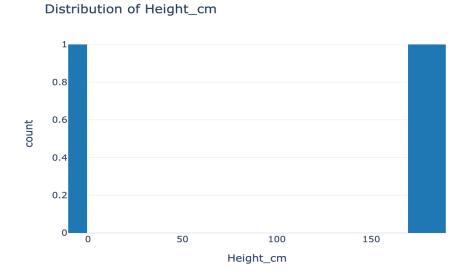
Records Flagged for Missing Data: 1

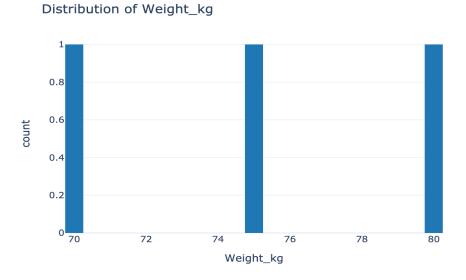
Ontology Mapping Summary

Ontology	Total Terms		Success Rate
HPO	3	0	0.00%

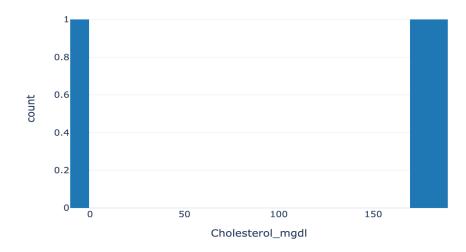
Visualizations



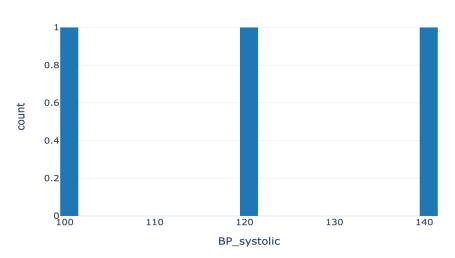




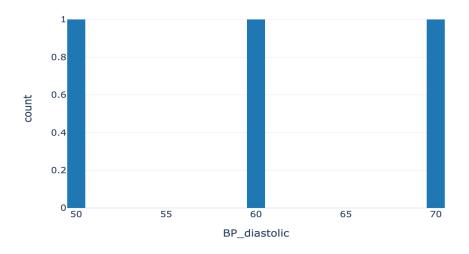
Distribution of Cholesterol_mgdl



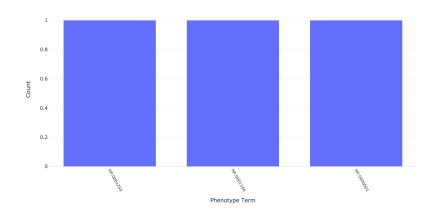
Distribution of BP_systolic



Distribution of BP_diastolic



Top 20 Most Common Terms in PrimaryPhenotype



Mapping Results: PrimaryPhenotype \rightarrow HPO

