# **PhenoQC Quality Control Report**

Source file: synthetic\_multi2\_data.csv

# **Summary**

Imputation Strategy	Mean
Schema Validation Score	0.00%
Missing Data Score	92.94%
Mapping Success Score	99.75%
Overall Quality Score	64.23%

## **Imputation Settings**

Global Strategy	knn	
Global Params	{'n_neighbors': 5, 'weights': 'uniform'}	
Tuning Enabled	True	
Best Params	{'n_neighbors': 7}	
Tuning Score	198.6406 (MAE)	

# **Data Quality Scores:**

Schema Validation Score: 0.00% Missing Data Score: 92.94% Mapping Success Score: 99.75% Overall Quality Score: 64.23%

### **Schema Validation Results**

Format Validation: False

**Duplicate Records:** 300 issues found. **Conflicting Records:** 300 issues found. **Integrity Issues:** 3150 issues found.

Referential Integrity Issues: No issues found.

Anomalies Detected: 44 issues found.

Invalid Mask: 3150 issues found.

# **Missing Data Summary**

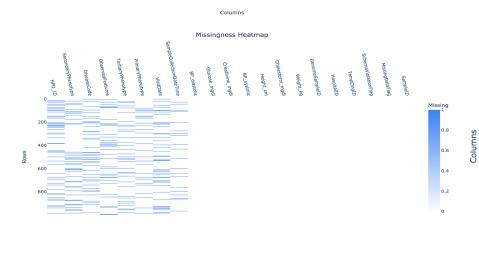
Column	Missing Count
SecondaryPhenotype	399
DiseaseCode	377
TertiaryPhenotype	367
PrimaryPhenotype	364
ObservedFeatures	350
Glucose_mgdl	322
BP_systolic	321
Height_cm	320
BP_diastolic	318
VisitDate	316
Weight_kg	315
Creatinine_mgdl	307
Cholesterol_mgdl	299
SampleCollectionDateTime	295

**Records Flagged for Missing Data: 2485** 

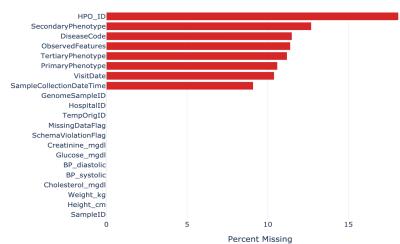
# **Ontology Mapping Summary**

Ontology	Total Terms	Mapped	Success Rate
HPO	1985	1980	99.75%

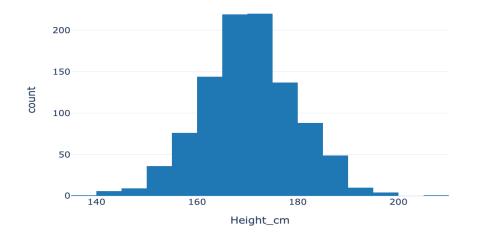
# **Visualizations**



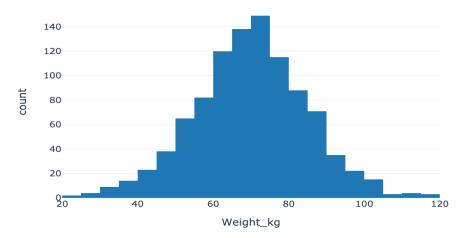
### Percentage of Missing Data by Column



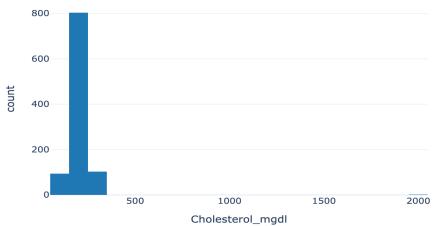
### Distribution of Height\_cm



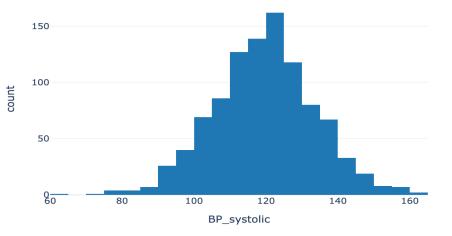
### Distribution of Weight\_kg



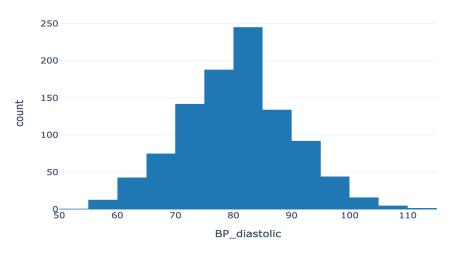
### Distribution of Cholesterol\_mgdl



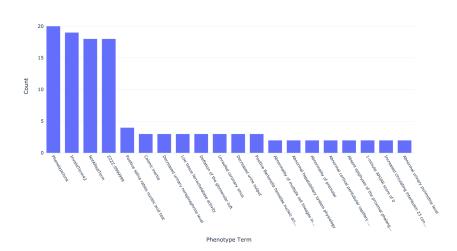
### Distribution of BP\_systolic



Distribution of BP\_diastolic



Top 20 Most Common Terms in PrimaryPhenotype



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### Mapping Results: PrimaryPhenotype $\rightarrow$ HPO

