

POMA (1.1.15): Exploratory Data Analysis Report

Username

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1 Know your data

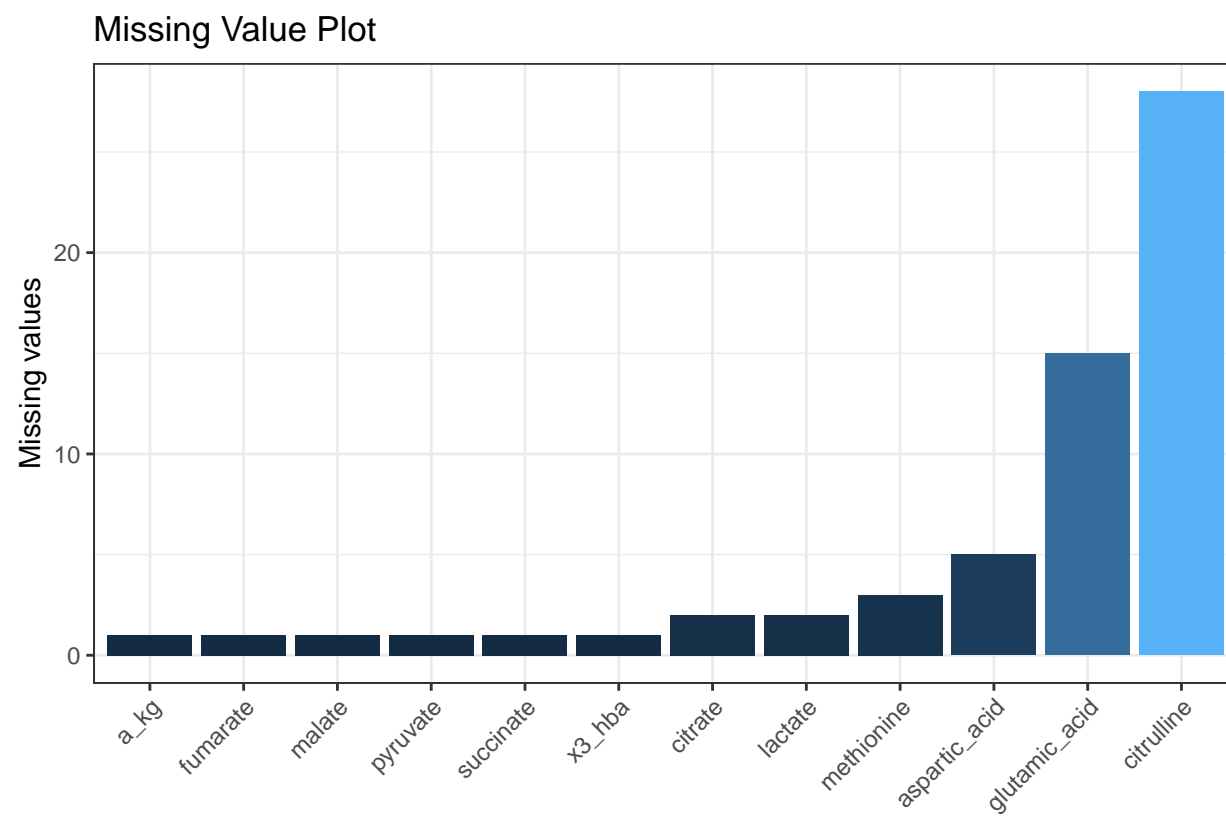
- Your data have **57** samples, **31** features and **2** groups, that are **‘Controls’**, **‘DMD’**. Furthermore, **1** covariates have been found in your data. These covariates are **‘steroids’**.
- A **3.45%** of values in your data are NAs (missing values). Variables that have NA values are **‘aspartic_acid (5)’**, **‘citrulline (28)’**, **‘glutamic_acid (15)’**, **‘methionine (3)’**, **‘x3_hba (1)’**, **‘a_kg (1)’**, **‘citrate (2)’**, **‘fumarate (1)’**, **‘lactate (2)’**, **‘malate (1)’**, **‘pyruvate (1)’**, **‘succinate (1)’**.
- A **0%** of values in your data are zeros.
- Removed from the exploratory data analysis **0** features that only have zeros.
- Removed from the exploratory data analysis **0** features that have zero variance.

1.1 Summary Table

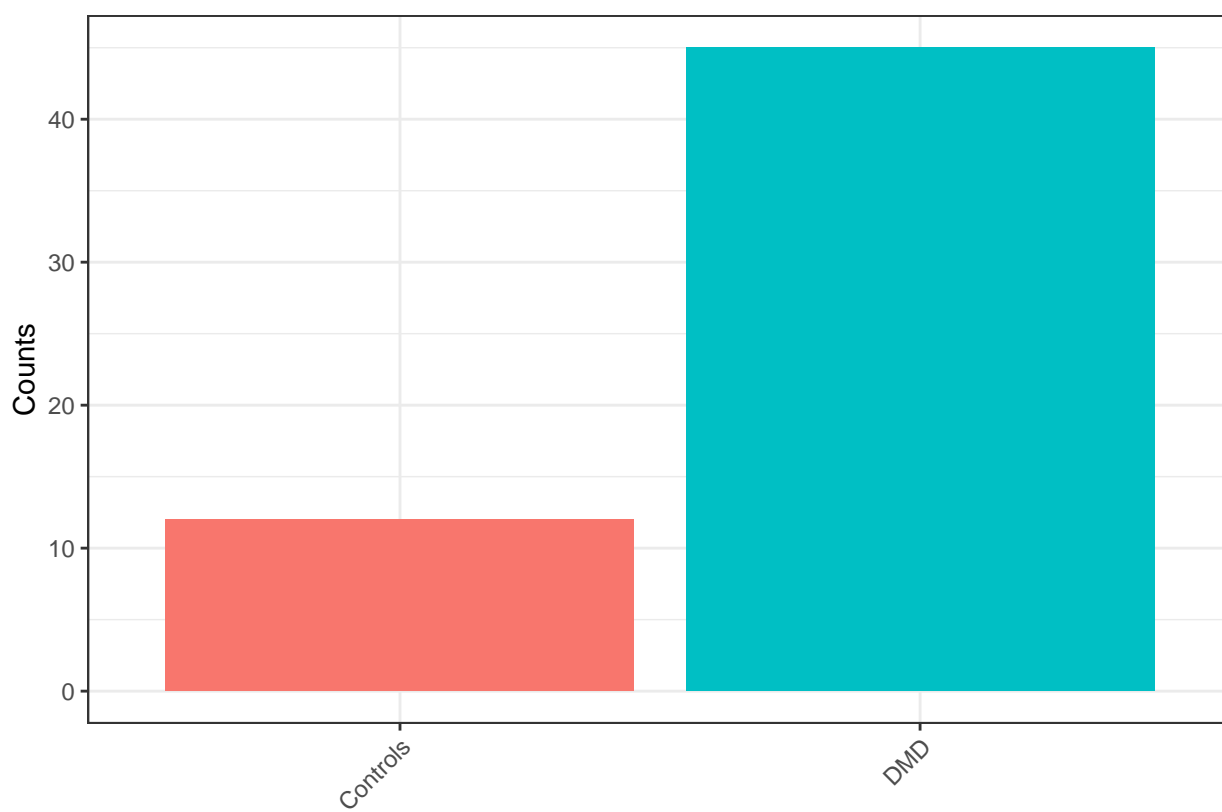
Samples	Features	Covariates
57	31	1

Counts_Zero	Percent_Zero
0	0 %

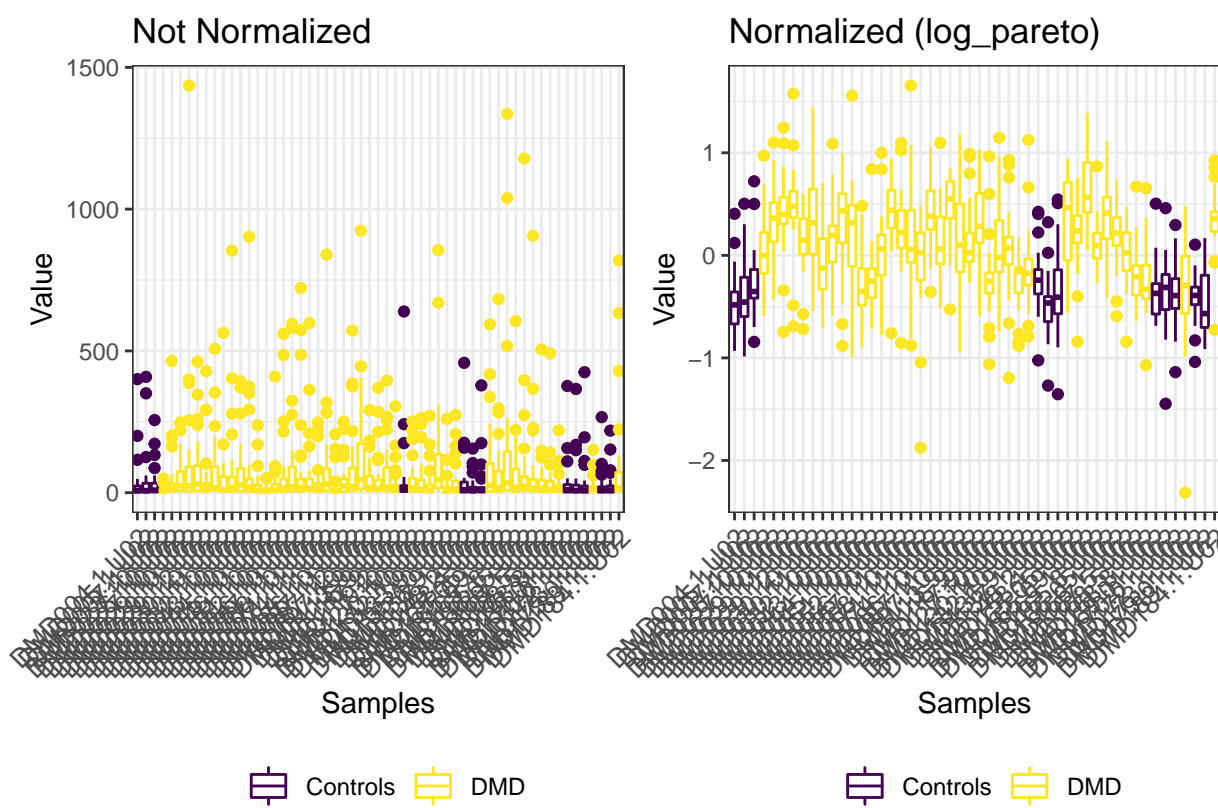
Counts_NA	Percent_NA
61	3.45 %



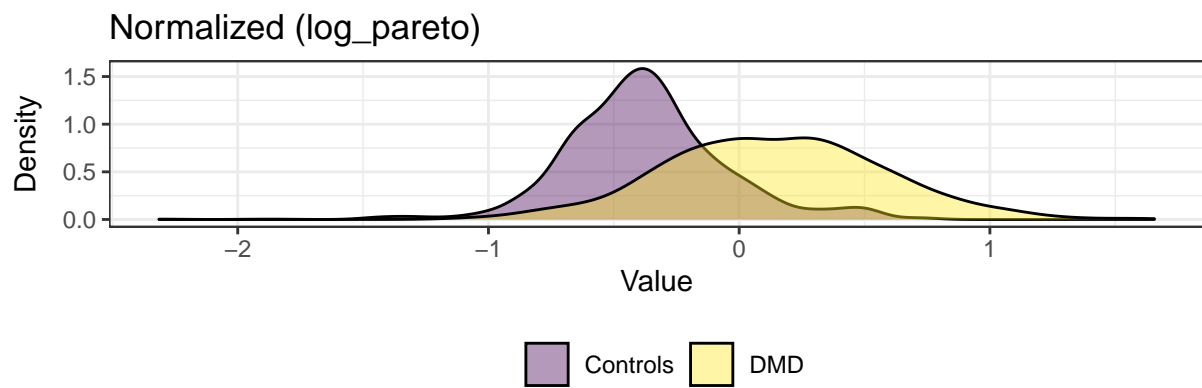
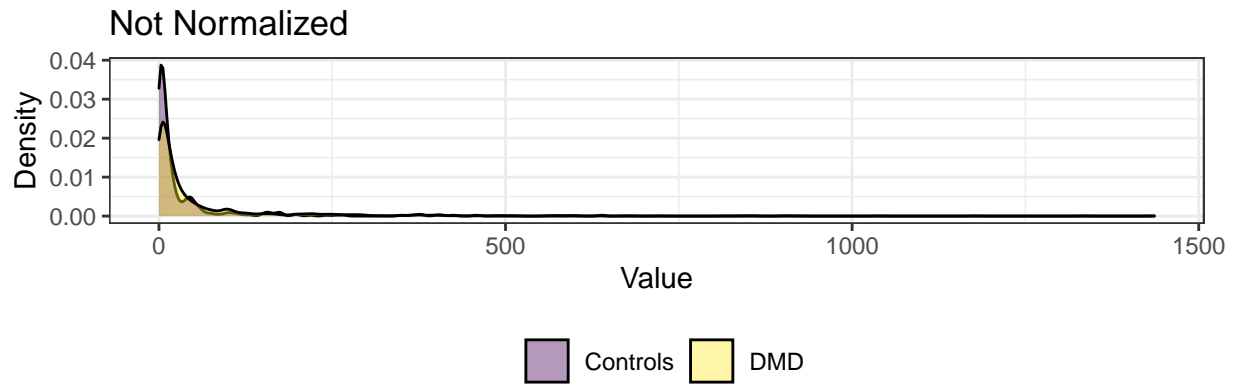
1.2 Samples by Group



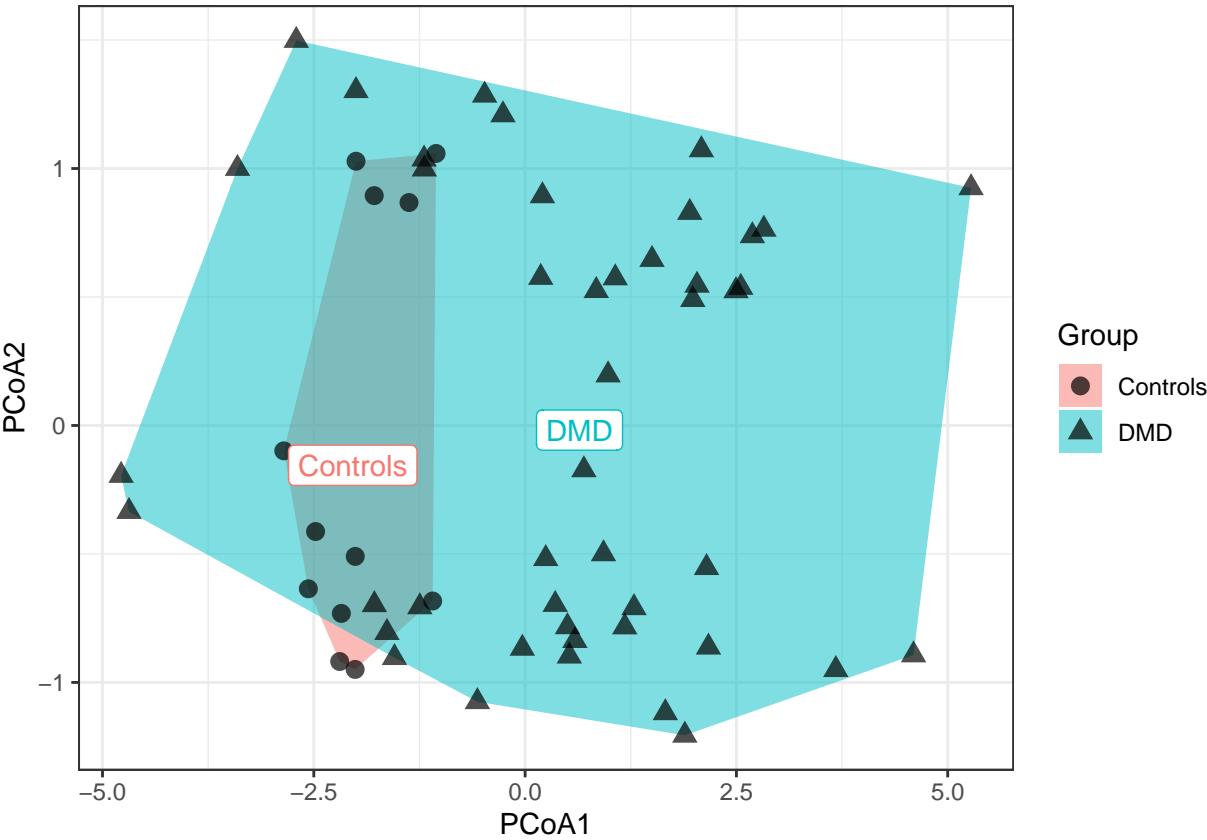
2 Normalization Plots



3 Group Distribution Plots



4 Outlier Detection



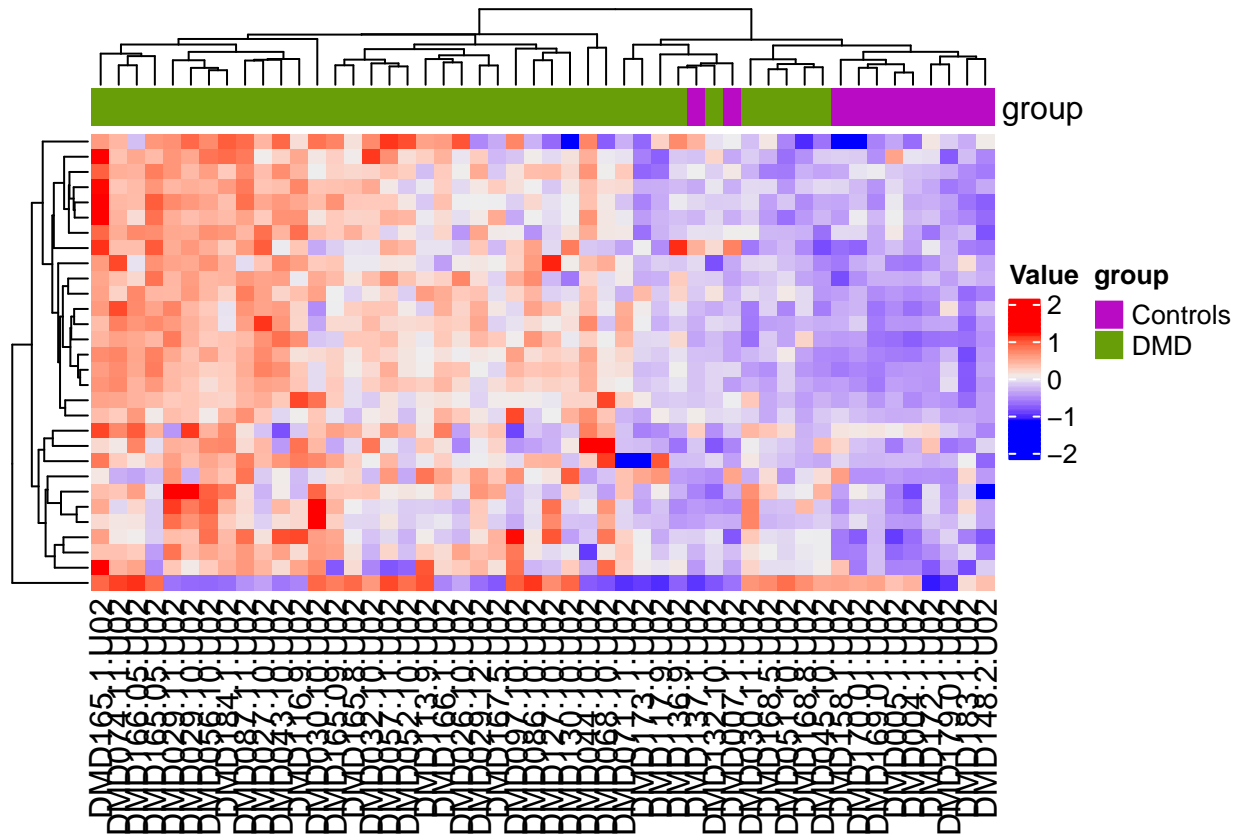
7 possible outliers detected in your data. These outliers are 'DMD119.2.U02', 'DMD084.11.U02', 'DMD087.12.U02', 'DMD023.10.U02', 'DMD046.11.U02', 'DMD133.9.U02', 'DMD135.10.U02'.

sample	group	distance_to_centroid	limit_distance
DMD119.2.U02	Controls	2.742576	2.290945
DMD084.11.U02	DMD	4.522825	4.040548
DMD087.12.U02	DMD	4.252170	4.040548
DMD023.10.U02	DMD	5.653399	4.040548
DMD046.11.U02	DMD	5.580959	4.040548
DMD133.9.U02	DMD	5.349670	4.040548
DMD135.10.U02	DMD	4.055233	4.040548

5 High Correlated Features ($r > 0.97$)

There are 0 high correlated feature pairs in your data.

6 Heatmap and Clustering



7 Principal Component Analysis

