Centrifuge protocol: ordinal v1.0

Centrifuge protocol: ordinal v1.0

Document version: 1.0

The purpose of the document: specification of a centrifuge protocol ordinal 1.0.

# Description

The protocol ordinal 1.0 is applied to a single dataset. If a data owner wishes to apply it to a database containing more than one dataset, the database must be converted to a single dataset before applying the protocol. Values in each column are replaced with integer ordinal values. If there are N unique values in the column, then the minimal value is replaced with a 1, the second minimal is replaced with a 2, etc. The maximal value is replaced with N.

# Data protection

Applying the protocol to the columns:

# Appendix 1: protocol application

# Example 1:

# Data protection

Applying the protocol to the columns:

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |  |
| Original | Protected | Original | Protected | Original | Protected | Original | Protected |  |
| SUBJID | \_003 | Visit Date | \_004 | Test code | \_002 | Result | \_001 |  |
| XYZ-013 | 1 | 2017-01-25 | 3 | ALT | 1 | 0.1 |  |  |
| XYZ-013 | 1 | 2017-01-25 | 3 | Albumin | 3 | 2.1 |  |  |
| XYZ-013 | 1 | 2017-01-25 | 3 | Urea | 2 | 3.1 |  |  |
| XYZ-013 | 1 | 2017-03-15 | 4 | ALT | 1 | 5.3 |  |  |
| XYZ-013 | 1 | 2017-03-15 | 4 | Albumin | 3 | 9.4 |  |  |
| XYZ-013 | 1 | 2017-03-15 | 4 | Urea | 2 | 13.3 |  |  |
| XYZ-013 | 1 | 2017-06-03 | 6 | ALT | 1 | 8.5 |  |  |
| XYZ-013 | 1 | 2017-06-03 | 6 | Albumin | 3 | 4.0 |  |  |
| XYZ-013 | 1 | 2017-06-03 | 6 | Urea | 2 | 10.4 |  |  |
| XYZ-002 | 2 | 2017-01-11 | 1 | ALT | 1 | 0.2 |  |  |
| XYZ-002 | 2 | 2017-01-11 | 1 | Albumin | 3 | 9.1 |  |  |
| XYZ-002 | 2 | 2017-01-11 | 1 | Urea | 2 | 12.9 |  |  |
| XYZ-002 | 2 | 2017-04-10 | 5 | ALT | 1 | 14.7 |  |  |
| XYZ-002 | 2 | 2017-04-10 | 5 | Albumin | 3 | 6.4 |  |  |
| XYZ-002 | 2 | 2017-04-10 | 5 | Urea | 2 | 9.1 |  |  |
| XYZ-002 | 2 | 2017-03-06 | 2 | ALT | 1 | 12.5 |  |  |
| XYZ-002 | 2 | 2017-03-06 | 2 | Albumin | 3 | 1.5 |  |  |
| XYZ-002 | 2 | 2017-03-06 | 2 | Urea | 2 | 1.4 |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  |  |  |  |
| SUBJID | Visit Date | Test code | Result |  |
| XYZ-013 | 2017-01-25 | ALT | 0.1 |  |
| XYZ-013 | 2017-01-25 | Albumin | 2.1 |  |
| XYZ-013 | 2017-01-25 | Urea | 3.1 |  |
| XYZ-013 | 2017-03-15 | ALT | 5.3 |  |
| XYZ-013 | 2017-03-15 | Albumin | 9.4 |  |
| XYZ-013 | 2017-03-15 | Urea | 13.3 |  |
| XYZ-013 | 2017-06-03 | ALT | 8.5 |  |
| XYZ-013 | 2017-06-03 | Albumin | 4.0 |  |
| XYZ-013 | 2017-06-03 | Urea | 10.4 |  |
| XYZ-002 | 2017-01-11 | ALT | 0.2 |  |
| XYZ-002 | 2017-01-11 | Albumin | 9.1 |  |
| XYZ-002 | 2017-01-11 | Urea | 12.9 |  |
| XYZ-002 | 2017-04-10 | ALT | 14.7 |  |
| XYZ-002 | 2017-04-10 | Albumin | 6.4 |  |
| XYZ-002 | 2017-04-10 | Urea | 9.1 |  |
| XYZ-002 | 2017-03-06 | ALT | 12.5 |  |
| XYZ-002 | 2017-03-06 | Albumin | 1.5 |  |
| XYZ-002 | 2017-03-06 | Urea | 1.4 |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  |  |  |  |
| \_001 | \_002 | \_003 | \_004 |  |
|  | 1 | 1 | 3 |  |
|  | 3 | 1 | 3 |  |
|  | 2 | 1 | 3 |  |
|  | 1 | 1 | 4 |  |
|  | 3 | 1 | 4 |  |
|  | 2 | 1 | 4 |  |
|  | 1 | 1 | 6 |  |
|  | 3 | 1 | 6 |  |
|  | 2 | 1 | 6 |  |
|  | 1 | 2 | 1 |  |
|  | 3 | 2 | 1 |  |
|  | 2 | 2 | 1 |  |
|  | 1 | 2 | 5 |  |
|  | 3 | 2 | 5 |  |
|  | 2 | 2 | 5 |  |
|  | 1 | 2 | 2 |  |
|  | 3 | 2 | 2 |  |
|  | 2 | 2 | 2 |  |