

Data Designer: Empowering data preparation, transformation, ARD creation and summarization for insights & decision making

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Disclaimer:

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What is Data Designer:

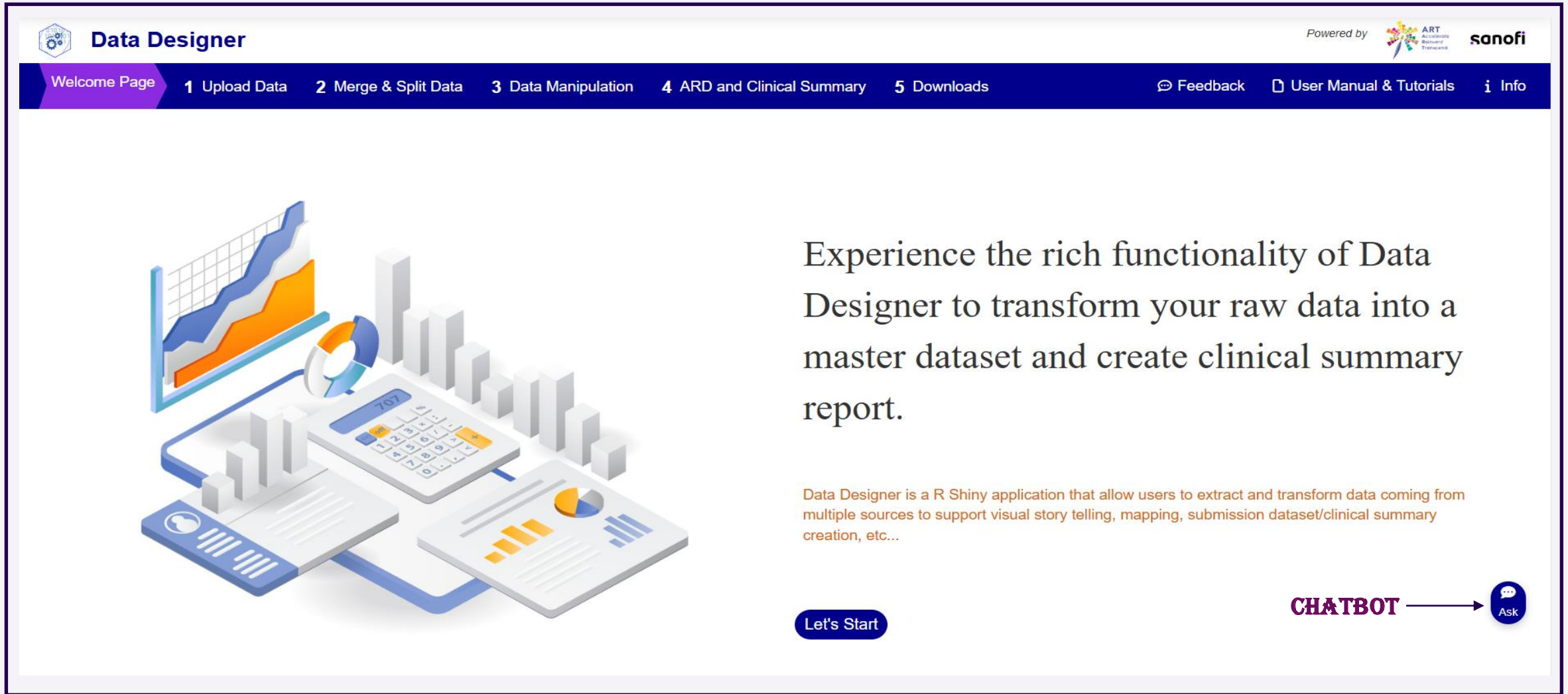
Data Designer is a R Shiny-based application and **mainly** adopts “**The Grammar of Data manipulation**” principle using **dplyr** package.



Why is this application developed:

- To streamline, accelerate and equip users with a tool to create master datasets from different raw datasets without writing any script.
- To provide a powerful, efficient data manipulation tool to users to get quick insights and trends on the go.
- Creating ARDs using Sanofi ARS or manually.
- Generating summary tables quickly from ARDs or from templates for presentations or for submissions.

Application Layout:



The screenshot displays the 'Data Designer' application interface. At the top, a header bar includes the application title 'Data Designer' on the left, and logos for 'Powered by ART Accelerate Research Transcend' and 'sanofi' on the right. Below the header is a dark blue navigation bar with a list of menu items: 'Welcome Page' (highlighted in purple), '1 Upload Data', '2 Merge & Split Data', '3 Data Manipulation', '4 ARD and Clinical Summary', and '5 Downloads'. On the right side of this bar are links for 'Feedback', 'User Manual & Tutorials', and 'Info'. The main content area features a large 3D illustration of various data visualization tools, including a line graph, a bar chart, a pie chart, and a calculator. To the right of this illustration, a text block reads: 'Experience the rich functionality of Data Designer to transform your raw data into a master dataset and create clinical summary report.' Below this, a smaller text block states: 'Data Designer is a R Shiny application that allow users to extract and transform data coming from multiple sources to support visual story telling, mapping, submission dataset/clinical summary creation, etc...'. At the bottom left of the main area is a blue button labeled 'Let's Start'. At the bottom right is a 'CHATBOT' label with an arrow pointing to a circular 'Ask' button.

Data Designer

Powered by **ART** Accelerate Research Transcend **sanofi**

Welcome Page 1 Upload Data 2 Merge & Split Data 3 Data Manipulation 4 ARD and Clinical Summary 5 Downloads

Feedback User Manual & Tutorials Info

Experience the rich functionality of Data Designer to transform your raw data into a master dataset and create clinical summary report.

Data Designer is a R Shiny application that allow users to extract and transform data coming from multiple sources to support visual story telling, mapping, submission dataset/clinical summary creation, etc...

Let's Start

CHATBOT → Ask

Data Import:

Data Designer

Welcome Page

1 Upload Data

2 Merge & Split Data

3 Data Manipulation

4 ARD and Clinical Summary

5 Downloads

Demo

Triplet Data

Copy & Paste

CSV Upload

Excel Upload

SAS Upload

XPT Upload

JSON Upload

PARQUET Upload

Data can be imported in multiple formats

Data View

Data Filter

Analysis

Data Insights

Final Data

Data Preview

254 Rows

48 Columns

Go to Data Filter

Go to Final tab

STUDYID	USUBJID	SUBJID	SITEID	SITEGR1	ARM	TRT01P	TRT01PN	TRT01A	TRT01AN	TRTSDT	TRTEDT	TRTDUR	AVGDD	CUMDOSE	AGE	AGEGR1	AGEGR1N	AGEGR1N
CDISCPLOT 01	01-701-1015	1015	701	701	Placebo	Placebo	0	Placebo	0	2014-01-02	2014-07-02	182	0	0	63	<65	1	Y
CDISCPLOT 01	01-701-1023	1023	701	701	Placebo	Placebo	0	Placebo	0	2012-08-05	2012-09-01	28	0	0	64	<65	1	Y
CDISCPLOT 01	01-701-1028	1028	701	701	Xanomeline High Dose	Xanomeline High Dose	81	Xanomeline High Dose	81	2013-07-19	2014-01-14	180	77.7	13986	71	65-80	2	Y
CDISCPLOT 01	01-701-1033	1033	701	701	Xanomeline Low Dose	Xanomeline Low Dose	54	Xanomeline Low Dose	54	2014-03-18	2014-03-31	14	54	756	74	65-80	2	Y

Data Subsetting and summary stats:

Data Designer

Powered by

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[Data View](#)
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[Data Insights](#)
[Final Data](#)

Column(s) Selection

Select Column(s)
USUBJID, SITEID, TRT01A, TRT01AN, TRTSDT, TRTEDT, -
 [Update table](#)

Column(s) Filter

[+ Add Filter](#)

Step 1 : Filter

[+ Add Condition](#)
[Apply Filter](#)

Column

SAFFL

Value

Filter

Operator

equals

Value(s)

Y X

AND

Column

AGEGR1

Value

Filter

Operator

equals

Value(s)

<65 X

Data Preview

[Go to Analysis](#)
[Go to Final tab](#)

33 Rows

15 Columns

USUBJID	SITEID	TRT01A	TRT01AN	TRTSDT	TRTEDT	AGE	AGEGR1	RACE	SEX	ETHNIC	SAFFL	BMIBL	
Unique Subject Identifier	Study Site Identifier	Actual Treatment for Period 01	Actual Treatment for Period 01 (N)	Date of First Exposure to Treatment	Date of Last Exposure to Treatment	Age	Pooled Age Group 1	Race	Sex	Ethnicity	Safety Population Flag	Baseline BMI (kg/m ²)	
01-701-1015	701	Placebo	0	2014-01-02	2014-07-02	63	<65	WHITE	F	HISPANIC OR LATINO	Y	25.1	
01-701-1023	701	Placebo	0	2012-08-05	2012-09-01	64	<65	WHITE	M	HISPANIC OR LATINO	Y	30.4	
01-701-1118	701	Placebo	0	2014-03-12	2014-09-09	52	<65	WHITE	M	NOT HISPANIC OR LATINO	Y	21.9	
01-701-1148	701	Xanomeline High Dose	81	2013-08-23	2014-02-20	57	<65	WHITE	M	NOT HISPANIC OR LATINO	Y	28.3	
01-701-1180	701	Xanomeline High Dose	81	2013-02-12	2013-03-18	56	<65	WHITE	M	NOT HISPANIC OR LATINO	Y	27.6	

1-5 of 33 rows
 Show 5

[Previous](#)
[1](#)
[2](#)
[3](#)
[4](#)
[5](#)
[...](#)
[7](#)
[Next](#)

Summary

USUBJID	SITEID	TRT01A	TRT01AN
Length:33	Length:33	Length:33	Min. : 0.00
Class :character	Class :character	Class :character	1st Qu.: 0.00
Mode :character	Mode :character	Mode :character	Median :54.00
			Mean :40.09
			3rd Qu.:81.00
			Max. :81.00

Ask

Data can be filtered on multiple conditions

Missing values visualization and Imputation:

Variable-wise Missing Values

Variable Name	Label	Missing Values (Count)	Missing (%)
DTHFL	Subject Died?	251	68.82%
DSRAEFL	Discontinued due to AE?	162	63.78%
DISCONFL	Did the Subject Discontinue the Study?	110	43.31%
BMIBL	Baseline BMI (kg/m^2)	1	0.39%
WEIGHTBL	Baseline Weight (kg)	1	0.39%

Missing Value Imputation

Select Column(s)

BMIBL

BMIBL

(numeric)

Missing: 1

Imputation method

Imputation method

Remove missing value rows

Impute missing values with Mean

Impute missing values with Median

Impute missing values with KNN

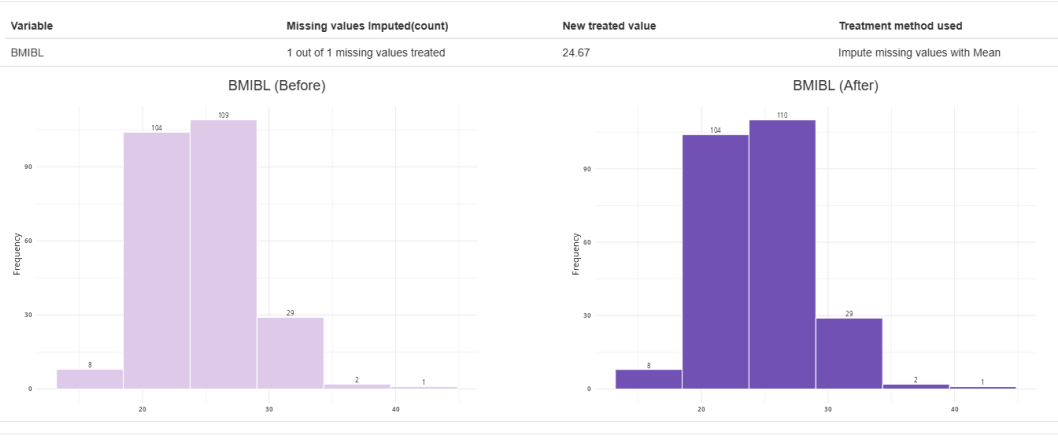
Impute missing values with LOCF

Impute missing values with NOCB

Reset

Apply Changes

Missing values treated successfully!



Variable removal, renaming, setting labels and ordering :

Data Designer

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4 ARD and Clinical Summary

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Data Filter

Analysis

Data Insights

Final Data

Download Processed Data

CSV

XLS

JSON

File name
Assign name for final data

Download Data

Save Dataset

Assign Name for dataset

Save

Show R Code

Remove Original data

Remove Column(s)

Select Columns to Remove

None selected

Reset

Apply Changes

Rename Column(s)

Select Column

None selected

Reset

Apply Changes

Set Column Label(s)

Select Columns to set Labels

None selected

Reset

Apply Changes

Order Column(s)

Expand

Data Preview

254 Rows

48 Columns

Reset All

STUDYID	USUBJID	SUBJID	SITEID	SITEGR1	ARM	TRT01P	TRT01PN	TRT01A	TRT01AN	TRTSDT	TRTEDT	TRTDUR	AVGDD	CUMDOSE	AGE	AGEGR1
Study Identifier	Unique Subject Identifier	Subject Identifier for the Study	Study Site Identifier	Pooled Site Group 1	Description of Planned Arm	Planned Treatment for Period 01	Planned Treatment for Period 01 (N)	Actual Treatment for Period 01	Actual Treatment for Period 01 (N)	Date of First Exposure to Treatment	Date of Last Exposure to Treatment	Duration of Treatment (days)	Avg Daily Dose (as planned)	Cumulative Dose (as planned)	Age	Pooled Age Group 1
CDISCPIL01	01-701-1015	1015	701	701	Placebo	Placebo	0	Placebo	0	2014-01-02	2014-07-02	182	0	0	63	<65
CDISCPIL01	01-701-1023	1023	701	701	Placebo	Placebo	0	Placebo	0	2012-08-05	2012-09-01	28	0	0	64	<65
CDISCPIL01	01-701-1028	1028	701	701	Xanomeline High Dose	Xanomeline High Dose	81	Xanomeline High Dose	81	2013-07-19	2014-01-14	180	77.7	13986	71	65-80
CDISCPIL01	01-701-1033	1033	701	701	Xanomeline Low Dose	Xanomeline Low Dose	54	Xanomeline Low Dose	54	2014-03-18	2014-03-31	14	54	756	74	65-80
CDISCPIL01	01-701-1034	1034	701	701	Xanomeline High Dose	Xanomeline High Dose	81	Xanomeline High Dose	81	2014-07-01	2014-12-30	183	76.9	14067	77	65-80

1-5 of 254 rows Show 5

Previous 1 2 3 4 5 ... 51

Ask

Note: Above Selection follows Top to Bottom approach

Renaming, labels assignment (using *labelled* package) and variable re-ordering in dataset

Data merging:

 **Data Designer**

Powered by  **sanofi**

Welcome Page1 Upload Data2 Merge & Split Data3 Data Manipulation4 ARD and Clinical Summary5 Downloads

FeedbackUser Manual & TutorialsInfo

Merge DatasetsAppend DatasetsSplit Datasets

Join DatasetsData PreviewSave Dataset

Dataset 1

Dataset

uploaded_data1_adsl1

Variables

STUDYID, USUBJID, TRT01A, AGE, AGEGR1

Join By

STUDYID * USUBJID * TRT01A *

Dataset 2

Dataset

uploaded_data2_adae

Variables

STUDYID, USUBJID, TRTA, ASTDT, AENDT, ADURN, AETERM

Join By

STUDYID * USUBJID * TRTA *

Join

Type

inner_join

Select label(s) for same column(s)

uploaded_data1_adsl1

Submit

uploaded_data1_adsl1

No. of Variables: 5
No. of Rows: 254

uploaded_data2_adae

No. of Variables: 8
No. of Rows: 714

Merged Dataset

No. of Variables: 10
No. of Rows: 714

STUDYID	USUBJID	TRT01A	AGE	AGEGR1	ASTDT	AENDT	ADURN	AETERM	AEDECOD
Study Identifier	Unique Subject Identifier	Actual Treatment for Period 01	Age	Pooled Age Group 1	Analysis Start Date	Analysis End Date	AE Duration (N)	Reported Term for the Adverse Event	Dictionary-Derived Term
CDISCILOT01	01-701-1015	Placebo	63	<65	2014-01-09	2014-01-11	3	DIARRHOEA	DIARRHOEA
CDISCILOT01	01-701-1023	Placebo	64	<65	2012-08-07	2012-08-30	24	ERYTHEMA	ERYTHEMA
CDISCILOT01	01-701-1023	Placebo	64	<65	2012-08-07	2012-08-30	24	ERYTHEMA	ERYTHEMA
CDISCILOT01	01-701-1047	Placebo	85	>80	2013-02-12	2013-02-12	1	HIATUS HERNIA	HIATUS HERNIA
CDISCILOT01	01-701-1047	Placebo	85	>80	2013-02-12	2013-02-12	1	HIATUS HERNIA	HIATUS HERNIA
CDISCILOT01	01-701-1097	Xanomeline Low Dose	68	65-80	2014-02-20	2014-02-20	1	PRURITUS GENERALISED	PRURITUS GENERALISED
CDISCILOT01	01-701-1097	Xanomeline Low Dose	68	65-80	2014-02-20	2014-02-22	3	APPLICATION SITE VESICLES	APPLICATION SITE VESICLES
CDISCILOT01	01-701-1097	Xanomeline Low Dose	68	65-80	2014-03-21	2014-03-21	1	PRURITUS GENERALISED	PRURITUS GENERALISED
CDISCILOT01	01-701-1097	Xanomeline Low Dose	68	65-80	2014-03-31	2014-03-31	1	PRURITUS GENERALISED	PRURITUS GENERALISED
CDISCILOT01	01-701-1097	Xanomeline Low Dose	68	65-80	2014-04-19	2014-04-20	2	PRURITUS GENERALISED	PRURITUS GENERALISED

1-10 of 714 rows Show 10

Previous 1 2 3 4 5 ... 72 Next

Ask

Show R Code

Assign name for dataset

Save

Concatenation:

Data Designer

Powered by

ART Accelerate Research Transform

Welcome Page

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Append Datasets

Split Datasets

Join Datasets

Data Preview

Save Dataset

Dataset 1

Dataset

uploaded_data1_adsl1

Variables

STUDYID, USUBJID, TRT01A, TRTSDT, TRTEDT, TRTDUR

Dataset 2

Dataset

uploaded_data1_adsl1

Variables

STUDYID, USUBJID, TRT01A, TRTSDT, TRTEDT, TRTDUR

Column Labels

Select label(s) for same column(s)

uploaded_data1_adsl1

Submit

uploaded_data1_adsl1

No. of Variables: 6
No. of Rows: 84

uploaded_data1_adsl1

No. of Variables: 6
No. of Rows: 84

Merged Dataset

No. of Variables: 6
No. of Rows: 168

STUDYID	USUBJID	TRT01A	TRTSDT	TRTEDT	TRTDUR
Study Identifier	Unique Subject Identifier	Actual Treatment for Period 01	Date of First Exposure to Treatment	Date of Last Exposure to Treatment	Duration of Treatment (days)
CDISCILOT01	01-701-1033	Xanomeline Low Dose	2014-03-18	2014-03-31	14
CDISCILOT01	01-701-1097	Xanomeline Low Dose	2014-01-01	2014-07-09	190
CDISCILOT01	01-701-1111	Xanomeline Low Dose	2012-09-07	2012-09-16	10
CDISCILOT01	01-701-1115	Xanomeline Low Dose	2012-11-30	2013-01-23	55
CDISCILOT01	01-701-1188	Xanomeline Low Dose	2013-02-15	2013-03-24	38
CDISCILOT01	01-701-1192	Xanomeline Low Dose	2012-07-22	2013-01-20	183
CDISCILOT01	01-701-1211	Xanomeline Low Dose	2012-11-15	2013-01-12	59
CDISCILOT01	01-701-1294	Xanomeline Low Dose	2013-03-24	2013-06-14	83
CDISCILOT01	01-701-1317	Xanomeline Low Dose	2014-05-22	2014-11-20	183
CDISCILOT01	01-701-1324	Xanomeline Low Dose	2012-10-02	2013-04-02	183
CDISCILOT01	01-701-1341	Xanomeline Low Dose	2013-01-05	2013-01-26	22
CDISCILOT01	01-701-1429	Xanomeline Low Dose	2013-03-19	2013-04-30	43

Vertical data appending

Data manipulation and analysis:





Data Manipulation

Core Operations

[Hide](#)

- ☒ Select
- ☐ Filter
- ☐ Rename
- ☐ Set Column Labels
- ☐ Order Columns
- ☐ Remove Duplicates
- ☐ Group & Summarise
- ☐ Outlier Detection & Treatment
- ☐ Sort By

Add Column

[Hide](#)

- ☐ Arithmetic
- ☐ Conditional
- ☐ logarithmic
- ☐ Date Duration
- ☐ Min/Max
- ☐ Percentage
- ☐ Static
- ☐ Bucket Creation (Custom)
- ☐ Bucket Creation (Auto)
- ☐ Category Creation
- ☐ Extract Date Time

Data Reshape

[Hide](#)

- ☐ Wide To Long
- ☐ Long To Wide
- ☐ Split Columns
- ☐ Merge Columns
- ☐ Transpose

Data Cleaning and Formatting

[Hide](#)

- ☐ Data Cleaning
- ☐ Text Case Conversion
- ☐ String Manipulation
- ☐ Change Column Class & Date Formatting

Talisma Data Processing

[Hide](#)

- ☐ Talisma - Transformation 1 (Absolute Number)
- ☐ Talisma - Transformation 1 (Percentage)
- ☐ Talisma - Transformation 2
- ☐ Talisma - Transformation 2 (with Category column(s))

[+ Add Operation](#)

Data Preview

168
Rows6
Columns

	STUDYID Study Identifier	USUBJID Unique Subject Identifier	TRT01A Actual Treatment for Period 01	TRTSDT Date of First Exposure to Treatment	TRTEDT Date of Last Exposure to Treatment	TRTDUR Duration of Treatment (days)
1	CDISCPLOT01	01-701-1033	Xanomeline Low Dose	2014-03-18	2014-03-31	14
2	CDISCPLOT01	01-701-1097	Xanomeline Low Dose	2014-01-01	2014-07-09	190
3	CDISCPLOT01	01-701-1111	Xanomeline Low Dose	2012-09-07	2012-09-16	10
4	CDISCPLOT01	01-701-1115	Xanomeline Low Dose	2012-11-30	2013-01-23	55
5	CDISCPLOT01	01-701-1188	Xanomeline Low Dose	2013-02-15	2013-03-24	38
6	CDISCPLOT01	01-701-1192	Xanomeline Low Dose	2012-07-22	2013-01-20	183
7	CDISCPLOT01	01-701-1211	Xanomeline Low Dose	2012-11-15	2013-01-12	59
8	CDISCPLOT01	01-701-1294	Xanomeline Low Dose	2013-03-24	2013-06-14	83
9	CDISCPLOT01	01-701-1317	Xanomeline Low Dose	2014-05-22	2014-11-20	183
10	CDISCPLOT01	01-701-1324	Xanomeline Low Dose	2012-10-02	2013-04-02	183
11	CDISCPLOT01	01-701-1341	Xanomeline Low Dose	2013-01-05	2013-01-26	22
12	CDISCPLOT01	01-701-1429	Xanomeline Low Dose	2013-03-19	2013-04-30	43
13	CDISCPLOT01	01-701-1442	Xanomeline Low Dose	2013-10-26	2014-04-26	183
14	CDISCPLOT01	01-702-1082	Xanomeline Low Dose	2013-07-26	2013-10-13	80
15	CDISCPLOT01	01-703-1086	Xanomeline Low Dose	2012-09-02	2012-12-04	94
16	CDISCPLOT01	01-703-1119	Xanomeline Low Dose	2013-02-20	2013-06-13	114
17	CDISCPLOT01	01-703-1182	Xanomeline Low Dose	2013-10-17	2013-12-11	56
18	CDISCPLOT01	01-703-1197	Xanomeline Low Dose	2013-06-16	2013-06-29	14
19	CDISCPLOT01	01-703-1279	Xanomeline Low Dose	2013-05-13	2013-06-03	22
20	CDISCPLOT01	01-703-1379	Xanomeline Low Dose	2013-09-22	2014-03-21	181
21	CDISCPLOT01	01-704-1009	Xanomeline Low Dose	2013-08-27	2013-09-25	30



Data manipulation (Group & Summarize):

Step 1 : Group & Summarise

Grouping Column(s)
AESOC

Summarise Column(s)
USUBJID

Aggregate Function(s)
length (count)

☐ Set decimal points

☒ Set column name(s)
USUBJID_length Count

Apply Changes

Step 2 : Add Column - Percentage

Select Variable(s)
Count

☐ Set grouping var(s)

Apply Changes



AESOC Primary System Organ Class	Count	Count_pct ↓
GENERAL DISORDERS AND ADMINISTRATION SITE CONDITIONS	292	24.52
SKIN AND SUBCUTANEOUS TISSUE DISORDERS	276	23.17
NERVOUS SYSTEM DISORDERS	101	8.48
CARDIAC DISORDERS	91	7.64
GASTROINTESTINAL DISORDERS	87	7.3
INFECTIONS AND INFESTATIONS	73	6.13
RESPIRATORY, THORACIC AND MEDIASTINAL DISORDERS	53	4.45
PSYCHIATRIC DISORDERS	40	3.36
INVESTIGATIONS	40	3.36
MUSCULOSKELETAL AND CONNECTIVE TISSUE DISORDERS	29	2.43

Ask

Data insight (trend) on the go

Data manipulation (Outlier Detection & Treatment):

Before
treatment

Step 1 : Outlier Detection & Treatment

Select Column(s) ?

ADURN

Select Outlier detection method ?

Boxplot & Interquartile range

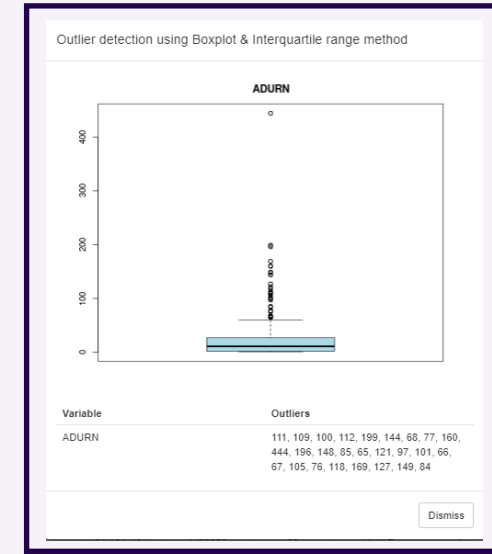
Show outliers

Boxplot & Interquartile range

Mean & Standard deviation

Median and Median Absolute Deviation

Percentiles



After treatment

Step 1 : Outlier Detection & Treatment

Select Column(s) ?

ADURN

Select Outlier detection method ?

Boxplot & Interquartile range

Show outliers

☒ Treat outliers ?

Select Column(s) ?

ADURN

ADURN_Outlier(s)

111, 109, 100, 112

Remove the outlier rows

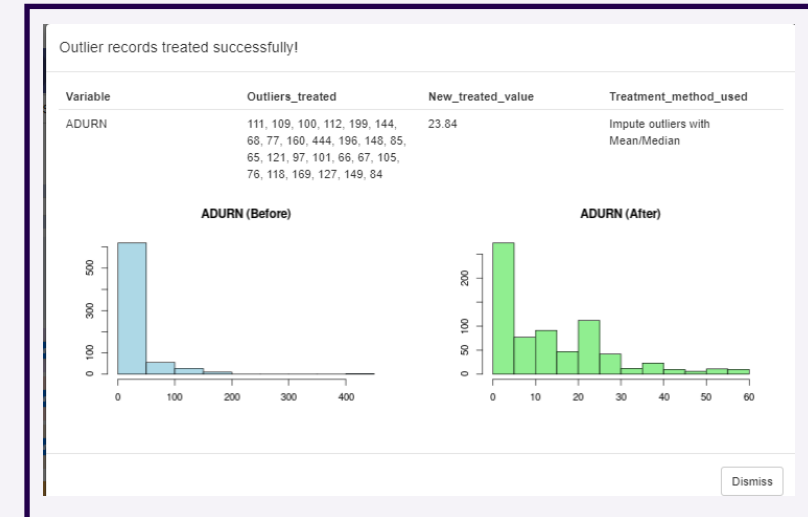
Replace outliers with 0/NA

Impute outliers with Mean/Median

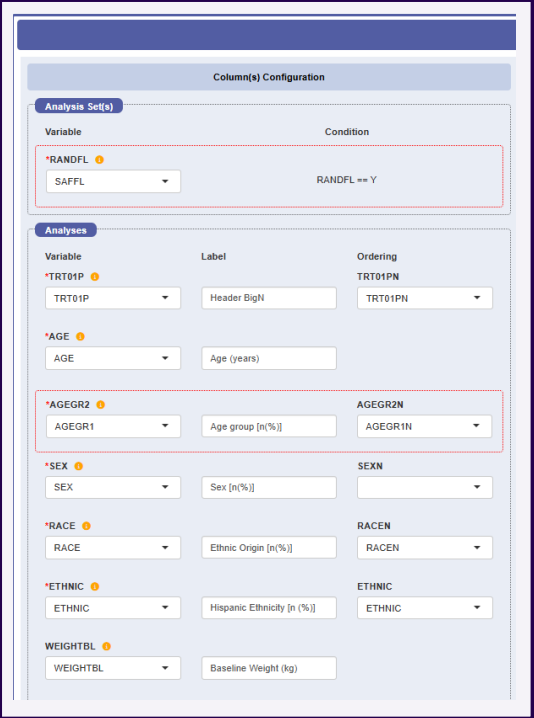
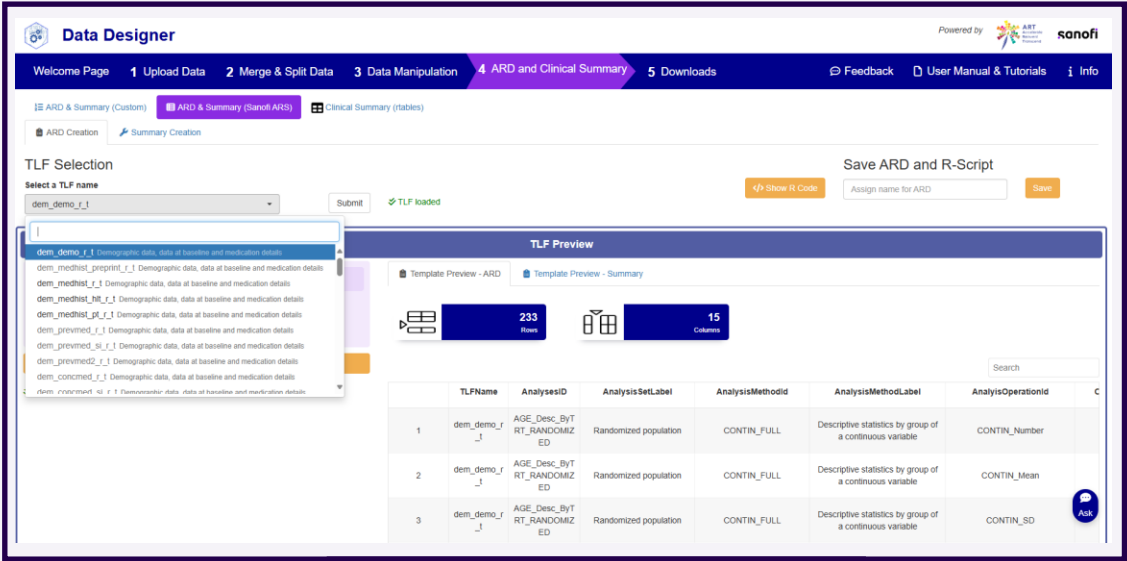
Percentile based capping

Treatment method

Apply Changes



ARD and Summary table creation (using Sanofi metadata):



ARD Preview Summary

Orientation: landscape Document format: .docx Table name: dem_demo_r_t Download Show R Code

16.2.4. Demographic data, data at baseline and medication details

Demographic data

Demographics and characteristics at baseline - Randomized population

Characteristic ²	Placebo N = 86 ¹	Xanomeline Low Dose N = 84 ¹	Xanomeline High Dose N = 84 ¹	Overall N = 254 ¹
Age (years)				
N	86	84	84	254
Mean (SD)	75.2 (8.6)	75.7 (8.3)	74.4 (7.9)	75.1 (8.2)
Median	76.0	77.5	76.0	77.0
Q1 : Q3	69.0 : 82.0	71.0 : 82.0	70.5 : 80.0	70.0 : 81.0
Min : Max	52.0 : 89.0	51.0 : 88.0	56.0 : 88.0	51.0 : 89.0
Age group [n(%)]				
N	86	84	84	254
<65	14(16.3%)	8(9.5%)	11(13.1%)	33(13.0%)
65-80	42(48.8%)	47(56.0%)	55(65.5%)	144(56.7%)
>80	30(34.9%)	29(34.5%)	18(21.4%)	77(30.3%)
Sex [n(%)]				
N	86	84	84	254
F	53(61.6%)	50(59.5%)	40(47.6%)	143(56.3%)
M	33(38.4%)	34(40.5%)	44(52.4%)	111(43.7%)

ARD and summary table creation using *cards* & *gtsummary* package

Powered by ART Research Institute
sano.fi

Welcome Page
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4 ARD and Clinical Summary
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Feedback
User Manual & Tutorials
Info

Template Selection

Clinical Summary Templates

Demographic Summary Template(s)

dem_demo_r_t

Adverse Event Summary Template(s)

ae_overview_pretrl_s_t

ae_overview_posttrl_s_t

ae_socpt_s_t

Select Template

Template Preview - dem_demo_r_t

Demographics and patient/subject characteristics at baseline - Randomized population

	Placebo (N=86)	Xanomeline High Dose (N=84)	Xanomeline Low Dose (N=84)	All (N=254)
Age (year)				
Number	86	84	84	254
Mean (SD)	75.2 (8.6)	74.4 (7.9)	75.7 (8.3)	75.1 (8.2)
Median	76.0	76.0	77.5	77.0
Q1 ; Q3	69.0 ; 82.0	70.5 ; 80.0	71.0 ; 82.0	70.0 ; 81.0
Min ; Max	52.0 ; 89.0	56.0 ; 88.0	51.0 ; 88.0	51.0 ; 89.0
Age group [n(%)]				
Number	86	84	84	254
<65	14 (16.3%)	11 (13.1%)	8 (9.5%)	33 (13.0%)
>80	30 (34.9%)	18 (21.4%)	29 (34.5%)	77 (30.3%)
65-80	42 (48.8%)	55 (65.5%)	47 (56.0%)	144 (56.7%)
Sex [n(%)]				
Number	86	84	84	254
F	53 (61.6%)	40 (47.6%)	50 (59.5%)	143 (56.3%)
M	33 (38.4%)	44 (52.4%)	34 (40.5%)	111 (43.7%)
Race [n(%)]				
Number	86	84	84	254
AMERICAN INDIAN OR ALASKA NATIVE	0 (0.0%)	1 (1.2%)	0 (0.0%)	1 (0.4%)
BLACK OR AFRICAN AMERICAN	8 (9.3%)	9 (10.7%)	6 (7.1%)	23 (9.1%)
WHITE	78 (90.7%)	74 (88.1%)	78 (92.9%)	230 (90.6%)

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Document format
.rtf

Table name
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Demo

Layout Type:
DOMASYS

Paper Type:
A4

Placebo (N=86)	Xanomeline Low Dose (N=84)	Xanomeline High Dose (N=84)	All (N=254)
86	84	84	254
75.2 (8.6)	75.7 (8.3)	74.4 (7.9)	75.1 (8.2)
76.0	77.5	76.0	77.0
69.0 ; 82.0	71.0 ; 82.0	70.5 ; 80.0	70.0 ; 81.0
52.0 ; 89.0	51.0 ; 88.0	56.0 ; 88.0	51.0 ; 89.0
86	84	84	254

Summary table creation using *rtables* package

Salient features:

- Data Designer provides a user-friendly, point and click interface for data mapping and manipulation, to create dataset for visualization, and data analysis, without writing any code.
- Application supports seamless ingestion of datasets from a variety of file formats e.g., SAS, XPT, CSV, Excel, Parquet, and JSON.
- Handle outliers and duplicate records, remove invisible characters, formatting inconsistencies and Data can be summarized on the go.
- Analysis Ready Datasets (ARD) can be created using metadata specifications and summary tables can also be created from ARDs in one click.
- Summary tables can also be created using Sanofi templates.
- R code is generated for reproducibility and traceability.

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Thank You!



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