Package 'allMT'

July 22, 2025

```
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Title Acute Lymphoblastic Leukemia Maintenance Therapy Analysis
Version 0.1.0
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Description
      Evaluates acute lymphoblastic leukemia maintenance therapy practice at patient and cohort level.
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Imports dplyr (>= 1.0.10), ggplot2 (>= 3.3.6), htmlTable (>= 2.2.1),
      plyr (>= 1.8.6), readxl (>= 1.3.1), reshape2 (>= 1.4.4), rio
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      'assess_anemia.R' 'assess_increased_doses.R'
      'assess_neutropenia.R' 'assess_reduced_doses.R'
      'assess_stop_doses.R' 'assess_thrombocytopenia.R'
      'compare_cohorts.R' 'convert_external_format.R'
      'convert_tmc_format.R' 'plot_progression.R'
      'summarize_cohortMT.R' 'summarize_cycle_progression.R'
      'time_to_first_dose_increase.R'
VignetteBuilder knitr
URL https://github.com/tmungle/allMT, https://tmungle.github.io/allMT/
BugReports https://github.com/tmungle/allMT/issues
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```

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Description

Evaluate number of anemia episodes and their duration for a given patient or cohort

Usage

```
assess_anemia(input_files_path, hb_range, duration_hb = NA)
```

Arguments

```
input\_files\_path
```

path to a file or a folder with MT csv files (in quotes).

hb_range Hemoglobin (HB) value range of c(Anemic HB threshold, recovered HB thresh-

old). NOTE: Ensure that units are the same as unit of HB in the input data.

duration_hb numeric duration (in weeks) that is used to categorize event as "long duration

anemia" (optional)

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Value

Returns a list with (1) the anemia information for each patient as listed below, (2) analysis summary as dataframe (3) analysis summary as HTML table.

- 1. Pat ID
- 2. Number of particular toxicity episodes
- 3. Duration of particular toxicity (in weeks)
- 4. Number of long duration toxicity episodes
- 5. Duration of long duration toxicity (in weeks)

Note

- 1. If the function is used for cohort analysis then values are represented as median and interquartile range (IQR) (25%-75%). The median and IQR is rounded off to upper integer value if decimal value is greater or equal to 0.5, else to lower integer value. Example 1.4->1 and 3.75->4
- 2. Long duration toxicity is only analyzed if "duration_hb" is included in provided arguments
- 3. User may save the result as a list, if required, to analyze each patient seperatly please use 1st element of list

See Also

```
assess_neutropenia(), assess_thrombocytopenia()
```

```
assess_increased_doses
```

Analyze physicians' compliance to dosing guidelines: INCREASE DOSE

Description

Evaluate number of times blood counts did not support physicians' INCREASE DOSE decision

Usage

```
assess_increased_doses(
  input_files_path,
  anc_threshold = NA,
  plt_threshold = NA,
  hb_threshold = NA,
  escalation_factor,
  tolerated_dose_duration
)
```

Arguments

input_files_path

path to a file or a folder with MT csv files (in quotes).

anc_threshold Absolute neutrophil count (ANC) value threshold above which doses should be

increased. NOTE: Ensure that the threshold value is represented with same unit

as of the input ANC data.

plt_threshold Platelet (PLT) value threshold above which doses should be increased. NOTE:

Ensure that the threshold value is represented with same unit as of the input PLT

data.

hb_threshold Hemoglobin (HB) value threshold below which doses should be increased. NOTE:

Ensure that the threshold value is represented with same unit as of the input Hb

data.

escalation factor

Percentage of increase from previous tolerated dose to be considered as "in-

creased" dose.

 $tolerated_dose_duration$

Number of weeks with ANC, PLT, and Hb values consistently above threshold with same dose prescription, following which dose should be increased.

Value

Returns a list with (1) the 'INCREASE DOSE' analysis for each patient as listed below, (2) analysis summary as dataframe (3) analysis summary as HTML table in viewer.

1. Pat ID

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- 2. Number of decisions where the physician increased dose (a)
- 3. Number of times blood counts did not support dose suspension (b)
- 4. Discordance (%) = (1 (b/a) * 100)

Note

- 1. At least one of the threshold parameters (anc_threshold, plt_threshold, hb_threshold) must be provided to carry out analysis. Missing threshold parameter will not be considered.
- 2. If the function is used for cohort analysis then a and b will be represented as median and interquartile range (IQR) (25%-75%). The median and IQR is rounded off to upper integer value if decimal value is greater or equal to 0.5, else to lower integer value Example 1.4->1 and 3.75->4
- 3. User may save the result as a list, if required, to analyze each patient separately use 1st element of list. Please refer to examples from assess_anemia

See Also

```
time_to_first_dose_increase(), assess_reduced_doses(), assess_stop_doses()
```

Examples

assess_neutropenia

Assess hematological toxicities: Neutropenia

Description

Evaluate number of neutropenia episodes and their duration for a given patient or cohort

Usage

```
assess_neutropenia(input_files_path, anc_range, duration_anc = NA)
```

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Arguments

input_files_path

path to a file or a folder with MT csv files (in quotes).

anc_range Absolute neutrophil count (ANC) value range of c(Neutropenic ANC threshold,

recovered ANC threshold). NOTE: Ensure that units are the same as unit of

ANC in the input data.

duration_anc numeric duration (in weeks) that is used to categorize event as "long duration

neutropenia" (optional)

Value

Returns a list with (1) the neutropenia information for each patient as listed below, (2) analysis summary as dataframe (3) analysis summary as HTML table.

- 1. Pat ID
- 2. Number of particular toxicity episodes
- 3. Duration of particular toxicity (in weeks)
- 4. Number of long duration toxicity episodes
- 5. Duration of long duration toxicity (in weeks)

Note

- 1. If the function is used for cohort analysis then values are represented as median and interquartile range (IQR) (25%-75%). The median and IQR is rounded off to upper integer value if decimal value is greater or equal to 0.5, else to lower integer value. Example 1.4->1 and 3.75->4
- 2. Long duration toxicity is only analyzed if "duration_anc" is included in provided arguments
- 3. User may save the result as a list, if required, to analyze each patient neutropenia analysis by analyzing 1st element of list

See Also

```
assess_anemia(), assess_thrombocytopenia()
```

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```
anc_range = c(0.5, 0.75), duration_anc = 3)
print(result[[1]])
print(result[[2]])
print(result[[3]])
```

 $assess_reduced_doses \quad \textit{Analyze physicians' compliance to dosing guidelines: REDUCE} \\ DOSE$

Description

Evaluate number of times blood counts did not support physicians' REDUCE DOSE decision

Usage

```
assess_reduced_doses(
  input_files_path,
  anc_range = NA,
  plt_range = NA,
  hb_range = NA,
  reduction_factor
)
```

Arguments

input_files_path

path to a file or a folder with MT csv files (in quotes).

anc_range Absolute neutrophil count (ANC) range between which doses should be reduce.

NOTE: Ensure that values are represented with same unit as of the input ANC

data.

plt_range Platelet (PLT) range between which doses should be reduce. NOTE: Ensure that

values are represented with same unit as of the input PLT data.

hb_range Hemoglobin (HB) range between which doses should be stopped. NOTE: En-

sure that values are represented with same unit as of the input Hb data.

reduction_factor

Percentage of 6MP starting dose (first visit dose) dose that will be called as "reduced" dose. Default = 50% of starting dose.

Value

Returns a list with (1) the 'REDUCE DOSE' analysis for each patient as listed below, (2) analysis summary as dataframe (3) analysis summary as HTML table in viewer.

- 1. Pat ID
- 2. Number of decisions where the physician reduced dose (a)

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- 3. Number of times blood counts did not support dose reduction (b)
- 4. Discordance (%) = ((b/a) * 100)

#' @note

1. Atleast one of the threshold parameters (anc_threshold, plt_threshold, hb_threshold) must be provided to carry out analysis. Missing threshold parameter will not be considered.

- 2. If the function is used for cohort analysis then a and b will be represented as median and interquartile range (IQR) (25%-75%). The median and IQR is rounded off to upper integer value if decimal value is greater or equal to 0.5, else to lower integer value Example 1.4->1 and 3.75->4
- 3. User may save the result as a list, if required, to analyze each patient separately use 1st element of list. Please refer to examples from assess_anemia

See Also

```
assess_stop_doses(), assess_increased_doses()
```

Examples

assess_stop_doses

Analyze physicians' compliance to dosing guidelines: STOP DOSE

Description

Evaluate number of times blood counts did not support physicians' STOP DOSE decision

Usage

```
assess_stop_doses(
  input_files_path,
  anc_threshold = NA,
  plt_threshold = NA,
  hb_threshold = NA
```

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Arguments

input_files_path

path to a file or a folder with MT csv files (in quotes).

anc_threshold Absolute neutrophil count (ANC) value threshold below which doses should be

stopped. NOTE: Ensure that the threshold value is represented with same unit

as of the input ANC data.

plt_threshold Platelet (PLT) value threshold below which doses should be stopped. NOTE:

Ensure that the threshold value is represented with same unit as of the input PLT

data.

hb_threshold Hemoglobin (HB) value threshold below which doses should be stopped. NOTE:

Ensure that the threshold value is represented with same unit as of the input Hb

data.

Value

Returns a list with (1) the 'STOP DOSE' analysis for each patient as listed below, (2) analysis summary as dataframe (3) analysis summary as HTML table in viewer.

- 1. Pat ID
- 2. Number of decisions where the physician stopped dose (a)
- 3. Number of times blood counts did not support dose suspension (b)
- 4. Discordance (%) = ((b/a) * 100)

Note

- 1. At least one of the threshold parameters (anc_threshold, plt_threshold, hb_threshold) must be provided to carry out analysis. Missing threshold parameter will not be considered.
- 2. If the function is used for cohort analysis then a and b will be represented as median and interquartile range (IQR) (25%-75%). The median and IQR is rounded off to upper integer value if decimal value is greater or equal to 0.5, else to lower integer value Example 1.4->1 and 3.75->4
- 3. User may save the result as a list, if required, to analyze each patient separately use 1st element of list. Please refer to examples from assess anemia

See Also

```
assess_reduced_doses(), assess_increased_doses()
```

assess_thrombocytopenia

Assess hematological toxicities: Thrombocytopenia

Description

Evaluate number of thrombocytopenia episodes and their duration for a given patient or cohort

Usage

```
assess_thrombocytopenia(input_files_path, plt_range, duration_plt = NA)
```

Arguments

input_files_path

path to a file or a folder with MT csv files (in quotes).

plt_range Platelet (PLT) value range of c(thrombocytopenic PLT threshold, recovered PLT

threshold). NOTE: Ensure that units are the same as unit of PLT in the input data.

duration_plt numeric duration (in weeks) that is used to categorize event as "long duration

thrombocytopenia" (optional)

Value

Returns a list with (1) the thrombocytopenia information for each patient as listed below, (2) analysis summary as dataframe (3) analysis summary as HTML table.

- 1. Pat ID
- 2. Number of particular toxicity episodes
- 3. Duration of particular toxicity (in weeks)
- 4. Number of long duration toxicity episodes
- 5. Duration of long duration toxicity (in weeks)

Note

- 1. If the function is used for cohort analysis then values are represented as median and interquartile range (IQR) (25%-75%). The median and IQR is rounded off to upper integer value if decimal value is greater or equal to 0.5, else to lower integer value. Example 1.4->1 and 3.75->4
- 2. Long duration toxicity is only analyzed if "duration_plt" is included in provided arguments
- 3. User may save the result as a list, if required, to analyze each patient thrombocytopenia analysis by analyzing 1st element of list

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See Also

```
assess_neutropenia(), assess_anemia()
```

Examples

compare_cohorts

Plot summarized maintenance therapy (MT) data to compare two or more cohorts

Description

Create an integrated summary graph facetted (by cohort). Graph illustrates weighted mean absolute neutrophil count (ANC) and dose information for each patient.

Usage

```
compare_cohorts(
  input_files_path,
  unit,
  anc_range,
  dose_intensity_threshold,
  method,
  intervention_date,
  group_data_path
)
```

Arguments

```
input_files_path
```

Path to folder with MT csv files (in quotes)

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unit Choose either "million" or "billion".

- "million" = million cells/L (x10⁶ cells/L or cells/ μ l)
- "billion" = billion cells/L (x10 9 cells/L or x10 3 cells/ μ l)

anc_range

Vector with lower and upper thresholds of absolute neutrophil count target range: (c(lower threshold, upper threshold))

• Ensure units of anc_range and patient data (unit) match.

dose_intensity_threshold

numeric value of reference drug dose intensity (%).

method

Choose from "M1" or "M2".

- "M1" = Comparison of cohorts that started MT therapy before or after a particular date of intervention (intervention_date).
- "M2" = Comparison of MT therapy between pre-determined groups.

intervention_date

Only applicable if method = "M1". Provide date in yyyy-mm-dd format (in quotes)

group_data_path

Only applicable for method = "M2". Path to EXCEL FILE containing "group" information. Ensure "ID" and "Group" columns are present.

Value

Comparative summary graph

Note

• If more than one chort need to be compared then only "M2" method is applicable

See Also

```
summarize_cohortMT()
```

```
convert_external_format
```

Get standard data structure

Description

Convert a maintenance therapy excel sheet created by user into a standard format for analysis

Usage

```
convert_external_format(
  inputpath_to_excelfolder,
  exportpath_to_csvfolder,
  pat_data_file_path,
  daily_mp_dose = 60,
  weekly_mtx_dose = 20
)
```

Arguments

```
inputpath_to_excelfolder Path to folder containing input excel files (in quotes) exportpath_to_csvfolder Path to folder in which to save final output csv files (in quotes) pat_data_file_path Path to excel file with patient IDs and corresponding BSA (body surface area) values. Column names - "ID", "BSA". daily_mp_dose numeric value of DAILY 6-Mercaptopurine dose per 1m^2 \ (mg/m^2) as per the MT dosing protocol. Default = 60mg/m^2 (as per ICiCLe-ALL-14 protocol) weekly_mtx_dose numeric value of WEEKLY absolute Methotrexate dose per 1m^2 \ (mg/m^2) as per the MT dosing protocol. Default = 20mg/m^2 (as per ICiCLe-ALL-14 protocol)
```

Value

Folder with converted csv files

Note

If MT excel files are missing in the input folder for any patient IDs provided in the pat_data_file ID column, the function will show a message of missing IDs but will continue to convert the available files.

See Also

```
convert_tmc_format()
```

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Examples

```
# As per ICiCLe-ALL-14 protocol (Reference PMID - 35101099):
path_to_excel = paste0(system.file("extdata/external_data/", package = "allMT"), "/")
save_path = paste0(tempdir(),"/")
path_to_bsa = system.file("extdata/external_data/", "BSA.xlsx", package = "allMT")
convert_external_format(inputpath_to_excelfolder = path_to_excel,
                   exportpath_to_csvfolder = save_path,
                   pat_data_file_path = path_to_bsa,
                   daily_mp_dose = 60,
                   weekly_mtx_dose = 20)
# As per ICiCLe-ALL-14 protocol (Reference PMID - 35101099):
convert_external_format(inputpath_to_excelfolder = "../csv_trial/",
                   exportpath_to_csvfolder = save_path,
                   pat_data_file_path = "BSAFile.xlsx")
# As per BFM protocol (Reference PMID - 15902295):
convert_external_format(inputpath_to_excelfolder = "../csv_trial/",
                   exportpath_to_csvfolder = save_path,
                   pat_data_file_path = "BSAFile.xlsx",
                   daily_mp_dose = 50,
                   weekly_mtx_dose = 20)
# As per St Jude protocol (Reference PMID - 15902295):
convert_external_format(inputpath_to_excelfolder = "../csv_trial/",
                   exportpath_to_csvfolder = save_path,
                   pat_data_file_path = "BSAFile.xlsx",
                   daily_mp_dose = 75,
                   weekly_mtx_dose = 40)
```

convert_tmc_format

Get standard data structure

Description

Convert a Tata Medical Center Kolkata India (TMC) based excel workbook into a standard format for analysis

Convert a maintenance therapy excel workbook (with individual sheets per cycle) into a single csv file with longitudinal data of blood count parameters, absolute doses and dose intensities of administered drugs.

Usage

```
convert_tmc_format(
  inputpath_to_excelfolder,
  exportpath_to_csvfolder,
  daily_mp_dose = 60,
```

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```
weekly_mtx_dose = 20
)
```

Arguments

```
inputpath_to_excelfolder Path to folder containing input excel files (in quotes) exportpath_to_csvfolder Path to folder in which to save final output csv files (in quotes) daily_mp_dose numeric value of DAILY 6-Mercaptopurine dose per 1m^2\ (mg/m^2) as per the MT dosing protocol. Default = 60mg/m^2 (as per ICiCLe-ALL-14 protocol) weekly_mtx_dose numeric value of WEEKLY absolute Methotrexate dose per 1m^2\ (mg/m^2) as per the MT dosing protocol. Default = 20mg/m^2 (as per ICiCLe-ALL-14 pro-
```

Value

Folder with converted csv files

tocol)

See Also

```
convert_external_format()
```

```
# As per ICiCLe-ALL-14 protocol (Reference PMID - 35101099):
path_to_excel = paste0(system.file("extdata/tmc_data/", package = "allMT"), "/")
save_path = paste0(tempdir(),"/")
convert_tmc_format(inputpath_to_excelfolder = path_to_excel,
                   exportpath_to_csvfolder = save_path,
                   daily_mp_dose = 60,
                   weekly_mtx_dose = 20)
# As per ICiCLe-ALL-14 protocol (Reference PMID - 35101099):
convert_tmc_format(inputpath_to_excelfolder = path_to_excel,
                   exportpath_to_csvfolder = save_path)
# As per BFM protocol (Reference PMID - 15902295):
convert_tmc_format(inputpath_to_excelfolder = path_to_excel,
                   exportpath_to_csvfolder = save_path,
                   daily_mp_dose = 50,
                   weekly_mtx_dose = 20)
# As per St Jude protocol (Reference PMID - 15902295):
convert_tmc_format(inputpath_to_excelfolder = path_to_excel,
                   exportpath_to_csvfolder = save_path,
                   daily_mp_dose = 75,
                   weekly_mtx_dose = 40)
```

plot_progression

plot_progression	Graphical representation of maintenance therapy data for single patient
------------------	-------------------------------------------------------------------------

Description

Creates a line graph (trends) for absolute neutrophil count (ANC), 6-Mercaptopurine (6MP) and Methotrexate (MTX) doses across all visits for the given patient

Usage

```
plot_progression(input_file_path, anc_range, unit)
```

Arguments

```
input_file_path
```

Path to input csv file for the patient (in quotes)

anc_range

ANC target range as per the protocol: (c(lower threshold, upper threshold)).

NOTE: Ensure that units are the same as unit of ANC in the input data.

unit

Choose either "million" or "billion".

- "million" = million cells/L (x 10^6 cells/L or cells/ μ l)
- "billion" = billion cells/L (x10 9 cells/L or x10 3 cells/ μ l)

Value

plot image

Note

- If there is only one threshold for anc_range parameter, please specify the respective value and keep the other threshold as NA. eg: c(2000, NA)
- Horizontal dotted lines on the graph indicate anc_range thresholds and starting doses for 6MP and MTX as a reference (colour coded to corresponding parameter)

See Also

```
summarize_cycle_progression()
```

```
pat_data = system.file("extdata/processed_data/", "UPN_915.csv", package = "allMT")
plot_progression(input_file_path = pat_data, anc_range = c(0.75,1.5), unit = "billion")

# As per BFM protocol (Reference PMID - 15902295):
plot_progression(input_file_path = "../UPN1.csv", anc_range = c(2, NA), unit = "billion")
```

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```
# As per St Jude protocol (Reference PMID - 15902295):
plot_progression(input_file_path = "../../UPN1.csv", anc_range = c(0.3, 1), unit = "billion")
```

summarize_cohortMT

Plot summarized maintenance therapy (MT) data for a cohort

Description

Create an integrated summary graph illustrating weighted mean absolute neutrophil count (ANC) and dose information for each patient in the cohort.

Usage

```
summarize_cohortMT(input_files_path, anc_range, unit, dose_intensity_threshold)
```

Arguments

```
input_files_path
```

Path to folder with MT csv files (in quotes)

anc_range

ANC target range as per the protocol: (c(lower threshold, upper threshold)).

NOTE: Ensure that units are the same as unit of ANC in the input data.

unit

Choose either "million" or "billion".

- "million" = million cells/L (x 10^6 cells/L or cells/ μ l)
- "billion" = billion cells/L (x10 9 cells/L or x10 3 cells/ μ l)

dose_intensity_threshold

numeric value of reference drug dose intensity (%). (optional)

Value

Summary graph

Note

- If there is only one threshold for anc_range or dose_intensity_range parameters, please specify the respective value and keep the other threshold as NA. eg: c(2000, NA), c(100, NA)
- Horizontal dotted lines on the graph indicate anc_range thresholds.Red dot represents summarized overall MT data.

See Also

```
compare_cohorts()
```

Examples

summarize_cycle_progression

Plot a cycle-specific summary graph of maintenance therapy (MT) data for single patient

Description

Create summary graph with maintenance therapy data. Weighted mean absolute neutrophil count (ANC) and dose information is calculated and plotted for each cycle.

Usage

```
summarize_cycle_progression(input_file_path, anc_range, unit)
```

Arguments

input_file_path

Path to input csv file for the patient (in quotes)

anc_range ANC target range as per the protocol: (c(lower threshold, upper threshold)).

NOTE: Ensure that units are the same as unit of ANC in the input data.

unit Choose either "million" or "billion".

- "million" = million cells/L (x 10^6 cells/L or cells/ μ l)
- "billion" = billion cells/L (x10 9 cells/L or x10 3 cells/ μ l)

Value

Plot image

Note

- If there is only one threshold for anc_range parameter, please specify the respective value and keep the other threshold as NA. eg: c(2000, NA)
- Horizontal dotted lines on the graph indicate anc_range thresholds.Red dot represents summarized overall MT data.

See Also

```
plot_progression()
```

Examples

```
time_to_first_dose_increase
```

Plot the time taken for FIRST 6-Mercaptopurine (6MP) dose increase in cohort

Description

Evaluate median time (in weeks) to first 6MP dose increase for the cohort using Kaplan-Meier cumulative incidence estimator using ggsurvplot package

Usage

```
time_to_first_dose_increase(input_files_path, escalation_factor)
```

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Arguments

```
input_files_path

Path to folder with MT csv files (in quotes)
escalation_factor
```

Percentage of increase from first dose to be considered as an "increased" dose.

Value

Median time (in weeks) to first 6MP dose increase plot

See Also

```
assess_increased_doses()
```

Examples

UPN_914

Sample data for a patient with unique patient number (UPN) 914

Description

Data for the patient consists of a dataframe that is used for viewing data

Usage

UPN_914

Format

A dataframe with 10 columns

- 1. Cycle: 96 weeks of maintenance therapy (MT) is divided into 8 cycles. The column represents the cycles number for the patient with new assessment
- 2. Date: Patient's new assessment date when doses were prescribed
- 3. Weeks: MT consist of 96 weeks. Column represent week number for new assessment
- 4. ANC: Absolute neutrophil count (ANC) values for new assessment
- 5. PLT: Platelet count (PLT) values for new assessment
- 6. Hb: Hemoglobin (Hb) values for new assessment
- 7. MP: 6-mercaptopurine (MP or 6MP) doses for new assessment
- 8. MTX: Methotraxate (MTX) doses for new assessment
- 9. MP_adj: MP dose intensity (%). See note for dose intensity calculation
- 10. MTX_adj: MTX dose intensity (%). See note for dose intensity calculation

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Note

1. For running examples you need to read the patient data as csv. The data (rda) is for viewing only

2. Dose intensity (%) = (a * 100)/b; where a = MP dose prescribed on new assessment and b = Protocol based MP dose adjusted to patient's body surface area

UPN_915

Sample data for a patient with unique patient number (UPN) 915

Description

Data for the patient consists of a dataframe that is used for viewing data

Usage

UPN_915

Format

A dataframe with 10 columns

- 1. Cycle: 96 weeks of maintenance therapy (MT) is divided into 8 cycles. The column represents the cycles number for the patient with new assessment
- 2. Date: Patient's new assessment date when doses were prescribed
- 3. Weeks: MT consist of 96 weeks. Column represent week number for new assessment
- 4. ANC: Absolute neutrophil count (ANC) values for new assessment
- 5. PLT: Platelet count (PLT) values for new assessment
- 6. Hb: Hemoglobin (Hb) values for new assessment
- 7. MP: 6-mercaptopurine (MP or 6MP) doses for new assessment
- 8. MTX: Methotraxate (MTX) doses for new assessment
- 9. MP_adj: MP dose intensity (%). See note for dose intensity calculation
- 10. MTX_adj: MTX dose intensity (%). See note for dose intensity calculation

Note

- 1. For running examples you need to read the patient data as csv. The data (rda) is for viewing only
- 2. Dose intensity (%) = (a * 100)/b; where a = MP dose prescribed on new assessment and b = Protocol based MP dose adjusted to patient's body surface area

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UPN_916

Sample data for a patient with unique patient number (UPN) 916

Description

Data for the patient consists of a dataframe that is used for viewing data

Usage

UPN_916

Format

A dataframe with 10 columns

- 1. Cycle: 96 weeks of maintenance therapy (MT) is divided into 8 cycles. The column represents the cycles number for the patient with new assessment
- 2. Date: Patient's new assessment date when doses were prescribed
- 3. Weeks: MT consist of 96 weeks. Column represent week number for new assessment
- 4. ANC: Absolute neutrophil count (ANC) values for new assessment
- 5. PLT: Platelet count (PLT) values for new assessment
- 6. Hb: Hemoglobin (Hb) values for new assessment
- 7. MP: 6-mercaptopurine (MP or 6MP) doses for new assessment
- 8. MTX: Methotraxate (MTX) doses for new assessment
- 9. MP_adj: MP dose intensity (%). See note for dose intensity calculation
- 10. MTX_adj: MTX dose intensity (%). See note for dose intensity calculation

Note

- For running examples you need to read the patient data as csv. The data (rda) is for viewing only
- 2. Dose intensity (%) = (a * 100)/b; where a = MP dose prescribed on new assessment and b = Protocol based MP dose adjusted to patient's body surface area

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