Tplyr Validation Report

Nathan Kosiba

2021-01-06

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Validation Files Information

Specifications

Specification Name	Last updated by	Last updated date
specification.Rmd	Nathan Kosiba	2021-01-05

Test case

Test Case Name	Last updated by	Last updated date
test_cases.Rmd	Nathan Kosiba	2021-01-06

Test code

Test Code Name	Last updated by	Last updated date
test_cases.R	Nathan Kosiba	2021-01-06

Validation Results

Specifications

- A: Population data can be specified by the user
- B: Treatment variable can be manually specified for population data
- C: Population data subset can be specified on user specified conditions
- D: Header N counts will be specified by combining different subgroups available within the population data
- E: Manual groups can be specified by combining different subgroups
- F: Analysis data can be specified by the user
- G: Analysis data subset can be specified on user specified conditions
- H: Treatment variable can be manually specified for analysis data
- I: n counts of values within a variable can be produced
- J: n counts of values within a group of variables can be produced
- K: counts can be produced using a pair of nested variables
- L: Total n counts can be added
- M: Total row sort value can be specified by the user
- N: Missing n count handling can be specified including presentation and denominator handling
- O: Missing row sort value can be specified by the user
- P: Dummy values can be specified for categories that need to be presented but may not exist within the data
- Q: Counts can be produced as n (%)
- R: When producing n (%), the denominator can be specified using the analysis data
- S: When producing n (%), the denominator can be specified using a particular manually specified subset
- T: When producing n (%), the denominator can be specified using the population data

- U: When producing n (%), the denominator can be specified using grouping of variables
- V: Risk difference including confidence interval can be produced based on specified treatment groupings
- W: Risk difference arguments can be passed forward into prop.test using args parameter
- X: Risk difference can be calculated over user specified cols arguments
- Y: Risk difference can be calculated over nested count layers and by variables
- Z: The descriptive statistic of n can be produced based on an input variable
- AA: The descriptive statistic of mean can be produced based on an input variable
- AB: The descriptive statistic of median can be produced based on an input variable
- AC: The descriptive statistic of IQR/Q1/Q3 can be produced based on an input variable
- AD: The descriptive statistic of standard deviation can be produced based on an input variable
- AE: The descriptive statistic of variance can be produced based on an input variable
- AF: The descriptive statistic of min can be produced based on an input variable
- AG: The descriptive statistic of max can be produced based on an input variable
- AH: The descriptive statistic of missing can be produced based on an input variable
- AI: Custom descriptive statistics can be produced based on an input variable and a specified formula
- AJ: Descriptive statistics can be performed across discrete values within a grouping variable or a group of grouping variables
- AK: Multiple statistics can be presented in one line (i.e. combining Q1, Q3 or Min, Max)
- AL: Decimal precision can be specified by the user
- AM: Integer length can be specified by the user
- AN: Decimal precision can be dynamically created from analysis data
- AO: Integer length can be dynamically created from analysis data
- AP: Presentation format can be specified by the user including desired non-numeric text
- AQ: Strings are built to align per user specification within a display
- AR: Descriptive statistic missing values can be set to a user specified string
- AS: Shift n counts of values using two variables, a 'from' and a 'to' variable, can be produced
- AT: Shift n counts of values within a variable can be produced
- AU: Shift n counts of values within a group of variables can be produced
- AV: Dummy values for shift counts can be specified for categories that need to be presented but may not exist within the data
- AW: Shift counts can be produced as n (%)
- AX: For shift counts when producing n (%), the denominator can be specified using the analysis data
- AY: For shift counts when producing n (%), the denominator can be specified using a particular manually specified subset
- AZ: For shift counts when producing n (%), the denominator can be specified using the population data
- BA: For shift counts when producing n (%), the denominator can be specified using a grouping of variables
- BB: Row labels can be manually specified by the user
- BC: Row labels can be nested to put a subgroup within a parent group
- BD: Summaries can be stacked on top of one another
- BE: Summaries can be sorted based on manual sorting by presentation specified order
- BF: Summaries can be sorted based on count based sorting (either ascending or descending) by a specified treatment group
- BG: Summaries can be sorted based on alphabetical sorting based on data values
- BH: Summaries can be sorted based on a numeric version of the target variable if available
- BI: Summary by variables will be sorted by a numeric variable if available and then by factor
- BJ: Nested layers can be sorted independently using different methods
- BK: Independent layers can be sorted using different methods and stacked using common sorting variables
- BL: Count layer default formats can be set at the table level
- BM: Descriptive statistics layer default formats can be set at the table level
- BN: Shift layer default formats can be set at the table level
- BO: Option for count layer default formats can be specified by the user
- BP: Option for descriptive statistics layer default formats can be specified by the user

- BQ: Option for shift layer default formats can be specified by the user
- BR: Option for a cap on auto precision can be specified by the user
- BS: Option for custom descriptive statistics can be specified by the user for use in the table
- BT: Option for setting scipen internal option can be specified by the user
- BU: Option for setting quantile algorithm choice can be specified by the user
- BV: Column headers can be added to the output object
- BW: Row breaks can be added between sections based on grouping variables
- BX: Row labels can be masked in a hierarchical fashion
- BY: A table object is returned in a format that is ready to be cosmetically prepared
- BZ: Count layers can process a cols argument and separate population data passed from the table level along with normal count layer processing
- CA: Count layers can process a cols argument, separate population data, and a defined subset passed from the table level along with normal count layer processing

Matrix

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X
T1	X	X																						
T2			X																					
T3				X	X																			
T4						X	X																	
T5	X	X				X	X																	
T6								X																
T7									X															
T8										X														
T9											X													
T10												X	X											
T11														X	X									
T12												X				X								
T13												X					X							
T14																		X						
T15																			X					
T16																				X				
T17												X									X			
T18																						X	X	
T19																								X
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T33																								

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X
T34																								
T35																								
T36																								
T37																								
T38																								
T39																								
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T61																								
T62																								
T63		X																						
T64								X																

	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV
T1																								
T2																								
T3																								
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T31																							X	
T32																								X
T33																								
T34																								

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	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV
T35																								
T36																								
T37																								
T38																								
T39																								
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T64																								

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	AW	AX	AY	AZ	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP	BQ	BR	BS	BT
	AW	AX	AY	AZ	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP	BQ	BR	BS	BT
T1																								
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	AW	AX	AY	AZ	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP	BQ	BR	BS	BT
T32																								
T33	X																							
T34		X																						
T35			X																					
T36				X																				
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T38						X																		
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T63																								
T64																								

	BU	BV	BW	BX	BY	BZ	CA
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	BU	BV	BW	BX	BY	BZ	CA
T35							
T36							
T37							
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T41							
T42							
T43							
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T52							
T53							
T54							
T55							
T56							
T57	X						
T58	X						
T59			X	X			
T60					X		
T61						X	
T62							X
T63							
T64							

Test Cases

This section contains details of each test executed. Checks verifying each test are included as sub-bullets of their associated test.

- Setup: *No prerequisites required*
  - T1: Population data can be specified by the user and treatment variable can be specified
    - T1.1: Verify target dataset in table is the same as specified
    - T1.2: Verify treatment variable in table is the same as specified
  - T2: Population data subset can be specified on user specified conditions
    - T2.1: Population data created matches data subset as specified
  - T3: Manual groups can be specified by combining different subgroups and header N counts will be specified from these groups within the population data
    - T3.1: Population groups can be added by combining existing groups
    - T3.2: Header N counts of combined groups match the combined total of the groups
  - T4: Analysis data can be specified by the user and treatment variable can be specified for the analysis population
    - T4.1: Verify analysis dataset in layer is the same as specified when inherited from table
    - T4.2: Verify treatment variable in layer is the same as specified when inherited from table
  - T5: Population data and treatment variable can be specified independent of analysis data and treatment variable
    - T5.1: Verify population data can be manually specified if not the same as analysis data
    - T5.2: Verify analysis data can be manually specified if not the same as population data
    - T5.3: Verify population treatment variable can be manually specified if not the same as analysis treatment variable
    - T5.4: Verify analysis treatment variable can be manually specified if not the same as population treatment variable
  - T6: Analysis data subset can be specified on user specified conditions
    - T6.1: Analysis data created matches data subset as specified
  - T7: n counts of values within a variable can be produced
    - T7.1: Complete data value n counts can be produced within a variable
    - T7.2: Distinct data value n counts can be produced within a variable
    - T7.3: A text string can be passed in and will be used as the value for counts
  - T8: n counts of values within a group of variables can be produced
    - T8.1: Complete data value n counts can be produced within a group of variables
    - T8.2: Distinct data value n counts can be produced within a group of variables
  - T9: counts can be produced using a pair of nested variables
    - T9.1: two variables with a nested relationship can be used to create counts
    - T9.2: A text string and a variable can be used to create counts
  - T10: Total n counts can be added and a sort value can be sepecified by the user
    - T10.1: Total n count can be added within a layer and sorted using a specified value
  - T11: Missing n count handling can be specified including presentation and denominator handling
    - T11.1: Missing n count rows can be added within a layer and sorted using a specified value
    - T11.2: Missing values can be excluded from the layer denominator
  - T12: Dummy values can be specified for categories that need to be presented but may not exist within the data and missing values can be set to a user specified string
    - T12.1: Values specified by user are presented in the output table and total or missing rows can be added
  - T13: Counts can be produced as n (%)
    - T13.1: When specified, both n and % can be displayed in a n (%) fashion and total counts can be added
    - T13.2: Distinct n and % can be displayed in a n (%) fashion and total counts can be added
    - T13.3: Distinct and non-distinct n and % can be presented together and total counts can be added

- T14: When producing n (%), the denominator can be specified using the analysis data
  - T14.1: Check denominators created match counts from analysis data
  - T14.2: Check % produced use denominators matching counts from analysis data
- T15: When producing n (%), the denominator can be specified using a particular manually specified subset
  - T15.1: Check denominators created match counts using specified conditions
  - T15.2: Check % produced use denominators matching counts using specified conditions
- T16: When producing n (%), the denominator can be specified using the population data
  - T16.1: Check % produced use denominators matching counts from population data
  - T16.2: Check denominators created match counts from population data
- T17: For shift counts when producing n (%), the denominator can be specified using a grouping of variables
  - T17.1: Check % produced use denominators matching counts from grouping variables
  - T17.2: Check added total row matches counts using denom by variables
- T18: Risk difference including confidence interval can be produced based on specified treatment groupings and arguments can be passed through to prop.test
  - T18.1: Check that risk difference calculated between groupings is correct
  - T18.2: Check that confidence interval calculated between groupings is correct
  - T18.3: Arguments passed through to prop.test create the correct output
- T19: Risk difference can be calculated over user specified cols arguments
  - T19.1: Risk difference estimate and confidence interval can be computed across values of the treatment variable and cols argument
- T20: Risk difference can be calculated over nested count layers and by variables
  - T20.1: Risk difference estimate and confidence interval can be computed across values of the treatment variable and nested count layer
  - T20.2: Risk difference estimate and confidence interval can be computed across values of the treatment variable and by variable
  - T20.3: Risk difference estimate and confidence interval can be computed across values of the treatment variable, nested count layer and by variable
- T21: The descriptive statistics of n, mean, median, IQR, Q1, Q3, standard deviation, variance, min, max, and missing can be produced based on an input variable
  - T21.1: Check the computed statistic of n matches the expected value
  - T21.2: Check the computed statistic of mean matches the expected value
  - T21.3: Check the computed statistic of median matches the expected value
  - T21.4: Check the computed statistic of IQR matches the expected value
  - T21.5: Check the computed statistic of Q1 matches the expected value
  - T21.6: Check the computed statistic of Q3 matches the expected value
  - T21.7: Check the computed statistic of standard deviation matches the expected value
  - T21.8: Check the computed statistic of variance matches the expected value
  - T21.9: Check the computed statistic of min matches the expected value
  - T21.10: Check the computed statistic of max matches the expected value
  - T21.11: Check the computed statistic of missing matches the expected value
- T22: Custom descriptive statistics can be produced based on an input variable and a specified formula
  - T22.1: Check that the computed statistic value matches the value from the specified formula
- T23: Descriptive statistics can be performed across discrete values within a grouping variable or a group of grouping variables
  - T23.1: Check the statistic values match the values from the specified grouping variable
- T24: Multiple statistics can be presented in one line
  - T24.1: Check that the output can include multiple statistics on the same line
- T25: Decimal precision and integer length can be specified by the user
  - T25.1: The output decimal precision and integer length is the same as the user specified values
- T26: Decimal precision and integer length can be dynamically created from analysis data
  - T26.1: The output decimal precision and integer length is the same as the decimal precision

and integer length from the target data variable
- T27: Presentation format can be specified by the user including desired non-numeric text and align per user specification
  - T27.1: The output string is formatted the same as user specification including non-numeric text and alignment
- T28: Descriptive statistic missing values can be set to a user specified string
  - T28.1: Missing values can be set to a user specified string
- T29: Shift n counts of values using two variables, a 'from' and a 'to' variable, can be produced
  - T29.1: n counts can be created in a shift manner using a from and to variable
- T30: Shift n counts of values within a variable can be produced
  - T30.1: n counts can be created in a shift manner using a from and to variable and a by variable
- T31: Shift n counts of values within a group of variables can be produced
  - T31.1: n counts can be created in a shift manner using a from and to variable and multiple by variables
- T32: Dummy values for shift counts can be specified for categories that need to be presented but may not exist within the data
  - T32.1: Values specified by user for the shift variables are presented in the output table
  - T32.2: Values are sorted using the order in the provided factor
- T33: Shift counts can be produced as n (%)
  - T33.1: When specified, both n and % can be displayed in a n (%) fashion for shift layer
- T34: For shift counts when producing n (%), the denominator can be specified using the analysis data
  - T34.1: Check % produced use denominators matching counts from analysis data
- T35: For shift counts when producing n (%), the denominator can be specified using a particular manually specified subset
  - T35.1: Check % produced use denominators matching counts using specified conditions
- T36: For shift counts when producing n (%), the denominator can be specified using the population data
  - T36.1: Check % produced use denominators matching counts from population data
- T37: For shift counts when producing n (%), the denominator can be specified using a grouping of variables
  - T37.1: Check % produced use denominators matching counts from grouping variables
- T38: Row labels can be manually specified by the user
  - T38.1: Check row labels in output table match user specified values
- T39: Row labels can be nested to put a subgroup within a parent group
  - T39.1: Check row labels and nesting in output table match user specified values and nesting
- T40: Summaries can be stacked on top of one another
  - T40.1: Check multiple summaries mixed between descriptive statistics and count are created they can be stacked
- T41: Summaries can be sorted based on manual sorting by presentation specified order
  - T41.1: Check that output table has correct count sorting variables matching specified order
- T42: Summaries can be sorted based on count based sorting (either ascending or descending) by a specified treatment group
  - T42.1: Check that output table has correct count sorting variables for count based sorting
- T43: Summaries can be sorted based on alphabetical sorting based on data values
  - T43.1: Check that output table has correct count sorting variables for data values
- T44: Summaries can be sorted based on a numeric version of the target variable if available
  - T44.1: Check that output table has correct count sorting variables for the corresponding numeric variable
- T45: Summary by variables will be sorted by a numeric variable if available and then by factor
  - T45.1: Check that ouput table has correct sorting variables for supplied by variables
- T46: Nested layers can be sorted independently using different methods
  - T46.1: Check that when different methods are supplied for nested layers they are applied

correctly
- T47: Independent layers can be sorted using different methods and stacked using common sorting variables
  - T47.1: Check that when different methods are supplied for independent layers they are applied correctly
- T48: Count layer default formats can be set at the table level
  - T48.1: Check that count layer formats set at the table level are applied to layers created
  - T48.2: Check that count layer formats applied at the layer level take prescedence over table level formats
- T49: Descriptive statistics layer default formats can be set at the table level
  - T49.1: Check that descriptive statistics layer formats set at the table level are applied to layers created
  - T49.2: Check that descriptive statistics layer formats applied at the layer level take prescedence over table level formats
- T50: Shift layer default formats can be set at the table level
  - T50.1: Check that shift layer formats set at the table level are applied to layers created
  - T50.2: Check that shift layer formats applied at the layer level take prescedence over table level formats
- T51: Option for count layer default formats can be specified by the user
  - T51.1: Check that the count layer defail formats specified in the option are displayed in the table
- T52: Option for descriptive statistics layer default formats can be specified by the user
  - T52.1: Check that the descriptive statistics layer defail formats specified in the option are displayed in the table
- T53: Option for shift layer default formats can be specified by the user
  - T53.1: Check that the shift layer defail formats specified in the option are displayed in the table
- T54: Option for a cap on auto precision can be specified by the user
  - T54.1: Check that the cap on auto precision specified by the user is displayed correctly in the table for both integers and decimals
- T55: Option for custom descriptive statistics can be specified by the user for use in the table
  - T55.1: Check that custom descriptive statistics set in the options can be used and displayed correctly in the table
- T56: Option for setting scipen internal option can be specified by the user
  - T56.1: Check that scientific notation supplied is displayed correctly in the table
- T57: Option for setting quantile algorithm choice can be specified by the user
  - T57.1: Check that the quantile algorithm supplied is used in table q1 and q3 calculation
- T58: Column headers can be added to the output object
  - T58.1: Check that column headers added match those in the output object
- T59: Row breaks can be added between sections based on grouping variables and row labels can be masked in a hierarchical fashion
  - T59.1: Check that a row break is added between each section based on the supplied grouping variables and row labels can be masked in a hierarchical fashion
- T60: A table object is returned in a format that is ready to be cosmetically prepared
  - T60.1: Check that the table object can be easily cosmetically prepared
- T61: Count layers can process a cols argument and separate population data passed from the table level along with normal count layer processing
  - T61.1: Test that n and % results are accurate when the combination of the cols argument and separate population data are applied
  - T61.2: Test that risk difference results are accurate when the combination of the cols argument and separate population data are applied
  - T61.3: Test that header N values produced are accurate when the combination of the cols argument and separate population data are applied
- T62: Count layers can process a cols argument, separate population data, and a defined subset

passed from the table level along with normal count layer processing
    - T62.1: Test that n and % results are accurate when the combination of the cols argument, separate population data, and a defined subset are applied
    - T62.2: Test that risk difference results are accurate when the combination of the cols argument, separate population data, and a defined subset are applied
    - T62.3: Test that header N values produced are accurate when the combination of the cols argument, separate population data, and a defined subset are applied
- T63: Treatment groups from target data will be included in the final table even if the table level subset is too narrow to include them
    - T63.1: Test that all treatment groups and cols variable combinations exist in the final table
- T64: When using separate population data treatment groups from target data will be included in the final table even if the table level subset is too narrow to include them
    - T64.1: Test that when using separate population data all treatment groups and cols variable combinations exist in the final table

Test Cases Results

[1] "/home/nathan.kosiba/Tplyr/uat/references/output"

Check	Results
T1.1	As expected
T1.2	As expected
T2.1	As expected
T3.1	As expected
T3.2	As expected
T4.1	As expected
T4.2	As expected
T5.1	As expected
T5.2	As expected
T5.3	As expected
T5.4	As expected
T6.1	As expected
T7.1	As expected
T7.2	As expected
T7.3	As expected
T8.1	As expected
T8.2	As expected
T9.1	As expected
T9.2	As expected
T10.1	As expected
T11.1	As expected
T12.1	As expected
T13.1	As expected
T13.2	As expected
T13.3	As expected
T14.1	As expected
T14.2	As expected
T15.1	As expected
T15.2	As expected
T16.1	As expected
T16.2	As expected
T17.1	As expected

(continued)

Check	Results
T18.1	As expected
T18.2	As expected
T18.3	As expected
T19.1	As expected
T20.1	As expected
T20.2	As expected
T20.3	As expected
T21.1	As expected
T21.2	As expected
T21.3	As expected
T21.4	As expected
T21.5	As expected
T21.6	As expected
T21.7	As expected
T21.8	As expected
T21.9	As expected
T21.10	As expected
T21.11	As expected
T22.1	As expected
T23.1	As expected
T24.1	As expected
T25.1	As expected
T26.1	As expected
T27.1	As expected
T28.1	As expected
T29.1	As expected
T30.1	As expected
T31.1	As expected
T32.1	As expected
T33.1	As expected
T34.1	As expected
T35.1	As expected
T36.1	As expected
T37.1	As expected
T38.1	As expected
T39.1	As expected
T40.1	As expected
T41.1	As expected
T42.1	As expected
T43.1	As expected
T44.1	As expected
T45.1	As expected
T46.1	As expected
T47.1	As expected
T48.1	As expected
T48.2	As expected
T49.1	As expected
T49.2	As expected
T50.1	As expected
T50.2	As expected

(continued)

Check	Results
T51.1	As expected
T52.1	As expected
T53.1	As expected
T54.1	As expected
T55.1	As expected
T56.1	As expected
T57.1	As expected
T58.1	As expected
T59.1	As expected
T60.1	As expected
T61.1	T61.1 not equal to c(...). 456/1060 mismatches x[1]: " 9 (17.0%)" y[1]: " 9 (8.5%)" x[2]: " 1 (1.9%)" y[2]: " 1 (
T61.2	T61.2 not equal to test_61[[1]]$rdiff_Treated_Placebo_F. 175/265 mismatches x[1]: "-0.025 (-0.165, 0.114)" y[1]
T61.3	As expected
T62.1	T62.1 not equal to c(...). 430/1024 mismatches x[1]: " 8 (16.7%)" y[1]: " 8 (8.3%)" x[2]: " 1 (2.1%)" y[2]: " 1 (
T62.2	T62.2 not equal to test_62[[1]]$rdiff_Treated_Placebo_F. 164/256 mismatches x[1]: "-0.026 (-0.173, 0.122)" y[1]
T62.3	As expected
T63.1	As expected
T64.1	As expected

System Information

R version 4.0.2 (2020-06-22) Platform: x86_64-pc-linux-gnu (64-bit) Running under: Ubuntu 18.04.4 LTS

Matrix products: default BLAS: /usr/lib/x86_64-linux-gnu/openblas/libblas.so.3 LAPACK: /usr/lib/x86_64-linux-gnu/libopenblasp-r0.2.20.so

locale: [1] LC_CTYPE=C.UTF-8 LC_NUMERIC=C LC_TIME=C.UTF-8 LC_COLLATE=C.UTF-8 LC_MONETARY=C.UTF-8
[6] LC_MESSAGES=C.UTF-8 LC_PAPER=C.UTF-8 LC_NAME=C LC_ADDRESS=C LC_TELEPHONE=C
[11] LC_MEASUREMENT=C.UTF-8 LC_IDENTIFICATION=C

attached base packages: [1] stats graphics grDevices utils datasets methods base

other attached packages: [1] rlang_0.4.9 kableExtra_1.3.1 knitr_1.30 shinydashboard_0.7.1 testthat_3.0.0 forcats_0.5.0
[7] stringr_1.4.0 dplyr_1.0.2 purrr_0.3.4 readr_1.4.0 tidyr_1.1.2 tibble_3.0.4
[13] ggplot2_3.3.2 tidyverse_1.3.0 Tplyr_0.3.1 shiny_1.5.0

loaded via a namespace (and not attached): [1] Rcpp_1.0.5 lubridate_1.7.9.2 pharmaRTF_0.1.1 rprojroot_2.0.2 assertthat_0.2.1 digest_0.6.27
[7] packrat_0.5.0 mime_0.9 R6_2.5.0 cellranger_1.1.0 backports_1.2.1 reprex_0.3.0
[13] evaluate_0.14 httr_1.4.2 pillar_1.4.7 readxl_1.3.1 rstudioapi_0.13 rmarkdown_2.6.0003
[19] desc_1.2.0 webshot_0.5.2 munsell_0.5.0 broom_0.7.2 compiler_4.0.2 httpuv_1.5.4
[25] modelr_0.1.8 xfun_0.19 pkgconfig_2.0.3 htmltools_0.5.0.9003 tidyselect_1.1.0 viridisLite_0.3.0
[31] fansi_0.4.1 crayon_1.3.4 dbplyr_2.0.0 withr_2.3.0 later_1.1.0.1 waldo_0.2.3
[37] grid_4.0.2 jsonlite_1.7.2 xtable_1.8-4 gtable_0.3.0 lifecycle_0.2.0 DBI_1.1.0
[43] huxtable_5.1.1 magrittr_2.0.1 scales_1.1.1 cli_2.2.0 stringi_1.5.3 diffobj_0.3.2
[49] fs_1.5.0 promises_1.1.1 xml2_1.3.2 ellipsis_0.3.1 generics_0.1.0 vctrs_0.3.5
[55] rematch2_2.1.2 tools_4.0.2 glue_1.4.2 hms_0.5.3 pkgload_1.1.0 rsconnect_0.8.16
[61] fastmap_1.0.1 yaml_2.2.1 colorspace_2.0-0 rvest_0.3.6 haven_2.3.1

Manual Check Completion History

Check	Output File Reviewed	Response	Log
T60.1	test_60.rtf	TRUE	nathan.kosiba:2021-01-06 17:53:32