**Coding notes**

Annotated code for original release – note these do not capture updates and changes – recorded to show how code was built

**CTcode**

---

output: word\_document

params:

report.data:

table: [some object]

---

```{r setup, echo=FALSE, message=FALSE, warning=FALSE}

library(kableExtra)

library(knitr)

library(tidyverse)

library(lubridate)

library(here)

knitr::opts\_chunk$set(echo = FALSE,

warning = FALSE,

message = FALSE)

```

```{r loaddata}

#Import CSV file, using filepath from params object created in shiny app

df <- read\_csv(params$report.data)

```

```{r formatdf}

df <- df %>%

# First, we'll make put a copy of the NCT number in a new field called Results\_URL. This will be used later to construct links to the study results, where they exist. All other transformations appear in the order they will appear in the final Word doc.

mutate(Results\_URL = `NCT Number`) %>%

# R Markdown creates links in the format: [Text you read](link URL)

# To create our titles with links:

# Add brackets to the start and end of the existing URLs,

# Add square brackets to the titles

# Merge the two columns with unite.

# We're also adding the text that says "Title" with the opening square bracket.

# Asterisks are markdown format to make text bold.

mutate(`Study URL` = str\_replace(`Study URL`, "^", "(")) %>%

mutate(`Study URL`= str\_replace(`Study URL`, "$", ")")) %>%

mutate(`Study Title` = str\_replace(`Study Title`, "^", "\*\*Title:\*\* [")) %>%

mutate(`Study Title` = str\_replace(`Study Title`, "$", "]")) %>%

unite(`Study Title`, `Study Title`, `Study URL`, sep = "", na.rm=TRUE) %>%

# Add heading to NCT numbers

mutate(`NCT Number` = str\_replace(`NCT Number`, "^", "\*\*Study number:\*\* ")) %>%

# Create "Alternative names or numbers:" line

# Replace the pipe symbol that separates IDs with a semi-colon. The leading back-slashes are necessary to specify we want to replace the symbol rather than every gap between characters.

# Merge 'Other IDs' with Acronyms, separated by a semi-colon and ignoring any NA values.

# Add line title.

mutate(`Other IDs` = str\_replace\_all(`Other IDs`, "\\|", "; ")) %>%

unite(`Other IDs`, `Other IDs`, Acronym, sep = "; ", na.rm=TRUE) %>%

mutate(`Other IDs` = str\_replace(`Other IDs`, "^", "\*\*Alternative names or numbers:\*\* ")) %>%

# change status to Title case from ALL CAPS, also puts a gap between word phase and the phase number

# Add title to phases and replace any pipe separators with a slash

mutate(Phases = str\_to\_title(Phases, locale = "en")) %>%

mutate(Phases = str\_replace\_all(Phases, "(?<=[a-z])(?=\\d)", " ")) %>%

mutate(Phases = str\_replace\_all(Phases, "\\|", "/")) %>%

mutate(Phases = str\_replace(Phases, "^", "\*\*Phase:\*\* ")) %>%

# Add new, blank columns for 'methods or purpose' and 'population' fields

mutate(MoP = "\*\*Methods or purpose:\*\* \*(if not clear from title)\*") %>%

mutate(Population = "\*\*Population:\*\* ") %>%

# Add title to enrollment field

mutate(Enrollment = str\_replace(Enrollment, "^", "\*\*No. of patients:\*\* ")) %>%

# Replace pipes that separate outcomes with bullet points & new lines in between. Next line adds title and bullet point for first idea.

mutate(`Primary Outcome Measures` = str\_replace\_all(`Primary Outcome Measures`, "\\|", "\n\n •")) %>%

mutate(`Primary Outcome Measures` = str\_replace(`Primary Outcome Measures`, "^", "\*\*Primary outcome(s):\*\* \n\n •")) %>%

#change status to sentence case from capitals

#removes underscores and replace with a blank space

mutate(`Study Status` = str\_to\_sentence(`Study Status`, locale = "en")) %>%

mutate(`Study Status` = str\_replace\_all(`Study Status`, "[\\\_](file://_)", " ")) %>%

mutate(Status = str\_replace(`Study Status`, "^", "\*\*Status:\*\* ")) %>%

#Reformat all the dates with lubridate, then add titles or 'not stated' where NA

mutate(`Start Date`=format(ymd(`Start Date`),"%B %Y"))%>%

mutate(`Primary Completion Date`=format(ymd(`Primary Completion Date`),"%B %Y")) %>%

mutate(`Completion Date`=format(ymd(`Completion Date`),"%B %Y")) %>%

mutate(`Start Date` = str\_replace\_na(`Start Date`, "Not stated")) %>%

mutate(`Start Date` = str\_replace(`Start Date`, "^", "\*\*Start date:\*\* ")) %>%

mutate(`Primary Completion Date` = str\_replace\_na(`Primary Completion Date`, "Not stated")) %>%

mutate(`Primary Completion Date` = str\_replace(`Primary Completion Date`, "^", "\*\*Primary completion date:\*\* ")) %>%

mutate(`Completion Date` = str\_replace\_na(`Completion Date`, "Not stated")) %>%

mutate(`Completion Date` = str\_replace(`Completion Date`, "^", "\*\*Study completion date:\*\* ")) %>%

#In the Results\_URL column, if results aren't available, paste in text

mutate(Results\_URL = case\_when(`Study Results` != "Has Results" ~ paste("\*\*Results\*\*: not available at clinicaltrials.gov"), TRUE ~ Results\_URL)) %>%

#In the Results URL column, if results are available, add an 'available' hyperlink (square brackets). Add the beginning of the URL and merge with the NCT number (Results\_URL = NCT number as per line 35)

mutate(Results\_URL= case\_when(`Study Results` == "Has Results" ~ paste("\*\*Results\*\*: [Available](https://clinicaltrials.gov/ct2/show/results/", Results\_URL, ")", sep = ""), TRUE ~ Results\_URL)) %>%

#create a blank column, so entries are separated by a line in Word

mutate(blank = "\\")

df <- select(df, `Study Title`, `NCT Number`, `Other IDs`, Phases, MoP, Population, Enrollment, `Primary Outcome Measures`, Status, `Start Date`, `Primary Completion Date`, `Completion Date`, Results\_URL, blank)

kable(df[1:14], col.names = NULL)

```

**Field code changes**

|  |  |
| --- | --- |
| **NEW (as of 03/08/23)** | **OLD** |
| NCT Number | NCT Number |
| **Study Title** | Title |
| **Study URL** |  |
| Acronym | Acronym |
| **Study Status** | Status |
| **Brief Summary** |  |
| Study Results | Study Results |
| Conditions | Conditions |
| Interventions | Interventions |
| **Primary Outcome Measures** | Outcome Measures |
| **Secondary Outcome Measures** |  |
| **Other Outcome Measures** |  |
| **Sponsor** | Sponsor/Collaborators |
| **Collaborators** |  |
| **Sex** | Gender |
| Age | Age |
| Phases | Phases |
| Enrollment | Enrollment |
| **Funder Type** | Funded Bys |
| Study Type | Study Type |
| **Study Design** | Study Designs |
| Other IDs | Other IDs |
| Start Date | Start Date |
| Primary Completion Date | Primary Completion Date |
| Completion Date | Completion Date |
| First Posted | First Posted |
| Results First Posted | Results First Posted |
| Last Update Posted | Last Update Posted |
| Locations | Locations |
| Study Documents | Study Documents |
| ***See "Study URL"*** | URL |

**ISRCTN**

---

output: word\_document

params:

report.data: NA

table: [some object]

---

```{r setup, echo=FALSE, message=FALSE, warning=FALSE}

library(kableExtra)

library(knitr)

library(tidyverse)

library(lubridate)

library(here)

knitr::opts\_chunk$set(echo = FALSE,

warning = FALSE,

message = FALSE)

```

```{r loaddata}

#Import CSV file, using filepath from params object created in shiny app

df <- read\_csv(params$report.data)

```

```{r formatdf}

df <- df

#create link in the ISRCTN column

#add heading to the Title column and merge ISRCTN and title columns

df <- df %>%

mutate(URL = ISRCTN) %>%

mutate(URL = str\_replace(URL,"^", "<https://www.isrctn.com/>")) %>%

mutate(URL = str\_replace(URL, "^", "("))%>%

mutate(URL = str\_replace(URL, "$", ")"))%>%

mutate(Title = str\_replace(Title, "^", "\*\*Title:\*\* [")) %>%

mutate(Title = str\_replace(Title, "$", "]")) %>%

unite(Title, Title, URL, sep = "", na.rm=TRUE, remove = FALSE) %>%

# Study number from ISRCTN column

mutate(ISRCTN = str\_replace(ISRCTN, "^", "\*\*Study number:\*\* ")) %>%

# Alternative names and numbers from EudraCT/CTIS number column. Merge IRAS number, clinicaltrials.gov number (not often filled in)

# Replace 'Nil known' and blank entries with NA

mutate(`EudraCT/CTIS number`= na\_if(`EudraCT/CTIS number`, "Nil known")) %>%

mutate(`ClinicalTrials.gov number`= na\_if(`ClinicalTrials.gov number`, "Nil known")) %>%

mutate(`EudraCT/CTIS number`= na\_if(`EudraCT/CTIS number`,"Nil Known")) %>%

mutate(`ClinicalTrials.gov number`= na\_if(`ClinicalTrials.gov number`, "Nil Known")) %>%

mutate(`EudraCT/CTIS number`= na\_if(`EudraCT/CTIS number`,"N/A")) %>%

mutate(`ClinicalTrials.gov number`= na\_if(`ClinicalTrials.gov number`, "N/A")) %>%

mutate(`EudraCT/CTIS number`= na\_if(`EudraCT/CTIS number`,"Nil known.")) %>%

mutate(`ClinicalTrials.gov number`= na\_if(`ClinicalTrials.gov number`, "Nil known.")) %>%

mutate(`EudraCT/CTIS number`= na\_if(`EudraCT/CTIS number`,"")) %>%

mutate(`ClinicalTrials.gov number`= na\_if(`ClinicalTrials.gov number`, "")) %>%

unite(`EudraCT/CTIS number`, `EudraCT/CTIS number`, `IRAS number`,`ClinicalTrials.gov number` , sep = "; ", na.rm=TRUE) %>%

mutate(`EudraCT/CTIS number` = case\_when(`EudraCT/CTIS number`== "" ~ "Not stated",

TRUE ~ `EudraCT/CTIS number`)) %>%

mutate(`EudraCT/CTIS number` = str\_replace(`EudraCT/CTIS number`, "^", "\*\*Alternative names or numbers:\*\* ")) %>%

# Add title to existing phase column, remove entries that say Not Applicable, remove NAs

mutate(Phase = str\_replace\_all(Phase, "Not Applicable", "Not stated")) %>%

mutate(Phase = str\_replace\_na(Phase, "Not stated")) %>%

mutate(Phase = str\_replace(Phase, "^", "\*\*Phase:\*\* ")) %>%

# Add new, blank columns for 'methods or purpose' field

mutate(MoP = "\*\*Methods or purpose:\*\* \*(if not clear from title)\*") %>%

# Population from Age group column. Merge Sex column.

# When trial recruits both male and female, it shows as 'both' - we may need to add something extra here

mutate(`Age group` = str\_replace(`Age group`, "^", "\*\*Population:\*\* ")) %>%

unite(`Age group`, `Age group`, Sex , sep = "; ", na.rm=TRUE) %>%

mutate(`Age group` = str\_replace(`Age group` , "Both" , "Male and Female")) %>%

# Number of patients from Target number of participants column

mutate(`Target number of participants` = str\_replace(`Target number of participants`, "^", "\*\*Participants:\*\* ")) %>%

# Add new, blank column for 'Primary outcomes' field

mutate(Primary\_outcomes = "\*\*Primary outcomes:\*\*") %>%

# Status from Overall study status column. Merge Recruitment status. Might need to add if 'if else' here to say, If it says 'completed', don't add the recruitment status.

mutate(`Overall study status` = str\_replace(`Overall study status`, "^", "\*\*Status:\*\* ")) %>%

unite(`Overall study status`, `Overall study status`, `Recruitment status`, sep = "- ", na.rm=TRUE) %>%

# Start date from Overall study start date column

#Change date format to month & year

mutate(`Overall study start date`=format(ymd(`Overall study start date`),"%B %Y")) %>%

mutate(`Overall study start date` = str\_replace(`Overall study start date`, "^", "\*\*Start date:\*\* ")) %>%

# Create primary completion date column

mutate(`Primary completion date` = "\*\*Primary completion date:\*\* Not stated" ) %>%

# Study completion date from Overall study end date column.

#Change date format to month & year

mutate(`Overall study end date`=format(ymd(`Overall study end date`),"%B %Y")) %>%

mutate(`Overall study end date` = str\_replace(`Overall study end date`, "^", "\*\*Study completion date:\*\* ")) %>%

# Results from Basic results (9) column

#when column has results, add link to ISRCTN record

#when column has no results, add text to say 'results not available from ISRCTN'

mutate(`Basic results...9` =

case\_when(is.na(`Basic results...9`) != TRUE ~ paste("\*\*Results\*\*: [Available at ISRCTN]", URL, sep = ""),

(is.na(`Basic results...9`) == TRUE ~ "\*\*Results\*\*: not available at ISRCTN"))) %>%

#create a blank column to add a space between entries in Word doc

mutate(blank = "\\")

df<-select(df,Title,ISRCTN,`EudraCT/CTIS number`,Phase,MoP,`Age group`,`Target number of participants`,Primary\_outcomes, `Overall study status`, `Overall study start date`,`Primary completion date`,`Overall study end date`,`Basic results...9`, blank)

kable(df[1:14], col.names = NULL)

```

**WHO**

---

output: word\_document

params:

report.data: NA

table: [some object]

---

```{r setup, echo=FALSE, message=FALSE, warning=FALSE}

library(kableExtra)

library(knitr)

library(tidyverse)

library(lubridate)

library(here)

knitr::opts\_chunk$set(echo = FALSE,

warning = FALSE,

message = FALSE)

```

```{r loaddata}

#Import CSV file, using filepath from params object created in shiny app

df <- read\_csv(params$report.data)

```

```{r formatdf}

df <- df %>%

#filter out all instances where a clinicaltrials.gov/ISRCTN record exists.

filter(`Source Register`!= "ClinicalTrials.gov")%>%

filter(`Source Register`!= "ISRCTN")%>%

#remove all instances of new lines ([\\n](file://n/)) and line indents ([\\r](file://r/)). Add brackets to the web address

mutate(`web address` = str\_remove\_all(`web address`, "[\\r\\n](file://r/n)"))%>%

mutate(`web address`= str\_replace(`web address`, "^", "(")) %>%

mutate(`web address`= str\_replace(`web address`, "$", ")")) %>%

#one trial has a line break so the title isn't hyperlinked.

mutate(`Scientific title` = str\_remove\_all(`Scientific title`, "[\\r\\n](file://r/n)"))%>%

#remove all trailing white space after the last character

mutate(`Scientific title` = str\_trim(`Scientific title`, side = c("right")))%>%

#add heading to the title column and add square brackets to the title. Merge the scientific title and web address columns. Add heading to the trial id column

mutate(`Scientific title` = str\_replace(`Scientific title`, "^", "\*\*Title:\*\* [")) %>%

mutate(`Scientific title` = str\_replace(`Scientific title`, "$", "]")) %>%

unite(`Scientific title`, `Scientific title`, `web address`, sep = "", na.rm=TRUE)%>%

mutate(TrialID = str\_replace(TrialID, "^", "\*\*Study number:\*\* ")) %>%

#remove all trailing white space after the data in the phase column. Replace all irrelevant text in the phase column with a number (1,2,3 or 4)

mutate(Phase = str\_trim(Phase, side = c("right")))%>%

mutate(Phase = str\_replace\_all(Phase, "Post-market|Post Marketing Surveillance","4"))%>%

mutate(Phase = str\_remove\_all(Phase, "Phase|phase|study|Study"))%>%

mutate(Phase = str\_remove\_all(Phase, "^-"))%>%

mutate(Phase = str\_replace\_all(Phase, "-", "/"))%>%

mutate(Phase = str\_replace\_all(Phase, "III|iii|three|THREE|Three", "3"))%>%

mutate(Phase = str\_replace\_all(Phase, "IV|iv|four|FOUR|Four", "4"))%>%

mutate(Phase = str\_replace\_all(Phase, "II|ii|two|Two", "2"))%>%

mutate(Phase = str\_replace\_all(Phase, "I|i|one|One", "1")) %>%

#replace all open brackets with a semi colon

mutate(Phase = str\_replace\_all(Phase, "\\(|\\)", ";")) %>%

mutate(Phase = str\_remove\_all(Phase, " "))%>%

mutate(Phase = str\_replace\_na(Phase, "Not stated"))%>%

#remove duplicate lines in the list of phases

mutate(Phase = sapply(Phase, function(Phase) paste(unique(unlist(strsplit(Phase, ";"))), collapse = ";")))%>%

#these are to remove unique instances of text and replace with the phase number where we couldn't batch remove them

mutate(Phase = str\_remove(Phase, "Humanpharmacology;1;:no"))%>%

mutate(Phase = str\_replace(Phase, "Humanpharmacology;1;:yes", "1"))%>%

mutate(Phase = str\_remove(Phase, "Therapeut1cexploratory;2;:no"))%>%

mutate(Phase = str\_replace(Phase, "Therapeut1cexploratory;2;:yes", "2"))%>%

mutate(Phase = str\_remove(Phase, "Therapeut1cconf1rmatory/;3;:no"))%>%#

mutate(Phase = str\_replace(Phase, "Therapeut1cconf1rmatory/;3;:yes", "3"))%>%

mutate(Phase = str\_remove(Phase, "Therapeut1cuse;4;:no"))%>%

mutate(Phase = str\_replace(Phase, "Therapeut1cuse;4;:yes", "4"))%>%

#add heading to the phase column and inclusion columns. Merge the inclusion columns and separate data with a semi colon.

mutate(Phase = str\_replace(Phase, "^", "\*\*Phase:\*\* "))%>%

mutate(Methods = "\*\*Methods or purpose:\*\* \_Please complete\_") %>%

mutate(Population = "\*\*Population:\*\* ")%>%

mutate(`Inclusion agemin` = str\_replace(`Inclusion agemin`, "^", "Minimum age: "))%>%

mutate(`Inclusion agemax` = str\_replace(`Inclusion agemax`, "^", "Maximum age: "))%>%

mutate(`Inclusion gender` = str\_replace(`Inclusion gender`, "^", "Gender: "))%>%

unite(Population, Population, `Inclusion agemin`, `Inclusion agemax`, `Inclusion gender`, `Inclusion Criteria`, sep = "; ", na.rm=TRUE)%>%

#reformat and remove irrelevant text. Replace all semi colons in the population column with bullet points

mutate(Population = str\_remove\_all(Population, "<br>|<br/ >|&#45"))%>%

mutate(Population = str\_replace\_all(Population, ";", "\n\n• "))%>%

mutate(`Target size` = str\_replace(`Target size`, "^", "\*\*No of Patients:\*\* "))%>%

mutate(`Primary outcome` = str\_remove\_all(`Primary outcome`,"<br>|<br>â€¢|<br/ ><br>|(&#37;)"))%>%

mutate(`Primary outcome` = str\_replace(`Primary outcome`, "^", "\*\*Primary outcomes:\*\*\n\n • "))%>%

mutate(`Primary outcome` = str\_replace\_all(`Primary outcome`, ";", "\n\n• "))%>%

mutate(`Recruitment Status` = str\_replace(`Recruitment Status`, "^", "\*\*Status:\*\* "))%>%

#reformat the date. Add headings to the date registration, primary date and completion date columns

mutate(`Date registration`=format(dmy(`Date registration`),"%B %Y")) %>%

mutate(`Date registration`= str\_replace(`Date registration`, "^", "\*\*Start date:\*\* "))%>%

mutate(Primarydate = "\*\*Primary completion date:\*\* Not stated") %>%

mutate(Completiondate = "\*\*Study completion date:\*\* Not stated")%>%

#add results heading to the results url link column. If there is no value in the results url link column, replace with "not available.." text

mutate(`results url link` = str\_replace(`results url link`, "^", "\*\*Results: \*\*"))%>%

mutate(`results url link`= na\_if(`results url link`, "| "))%>%

mutate(`results url link` = replace\_na(`results url link`, "\*\*Results:\*\* Not available via trials registry")) %>%

#create a blank column to add a space between entries in Word doc

mutate(blank = "\\")

df<-select(df,`Scientific title`,TrialID, Phase, Methods, Population,`Target size`,`Primary outcome`, `Recruitment Status`,`Date registration`, Primarydate, Completiondate,`results url link`, blank)

kable(df[1:13], col.names = NULL)

```

**SHINY APP CODE**

**CTapp.R**

library(shiny)

library(shinydashboard)

library(tidyverse)

library(lubridate)

library(here)

library(spsComps)

library(kableExtra)

body <- dashboardBody(

fluidRow(

box(title = "Clinicaltrials.gov", width = 4, solidHeader = TRUE,

fileInput(inputId = "inputfile", "", multiple = FALSE, accept = c("text/csv", "text/comma-separated-values,text/plain", ".csv")) %>%

bsPopover("click browse to upload .csv file", "then click download button"),

p(),

p(),

downloadButton("report"),

)

)

)

ui <- dashboardPage(

dashboardHeader(title = "Trial converter"),

dashboardSidebar(disable = TRUE),

body

)

server <- function(input, output) {

output$report <- downloadHandler(

filename = "report.doc",

content = function(file) {

tempReport <- file.path(tempdir(), "CTcode.Rmd")

file.copy("CTcode.Rmd", tempReport, overwrite = TRUE)

params <- list(report.data = input$inputfile$datapath)

rendered\_report <- rmarkdown::render(

tempReport,

output\_file = file,

params = params,

envir = new.env(parent = globalenv())

)

file.copy(rendered\_report, file)

}

)

}

shinyApp(ui, server)

**ISRCTNapp.R**

library(shiny)

library(shinydashboard)

library(tidyverse)

library(lubridate)

library(here)

library(spsComps)

library(kableExtra)

body <- dashboardBody(

fluidRow(

box(title = "ISRCTN", width = 4, solidHeader = TRUE,

fileInput(inputId = "inputfile", "", multiple = FALSE, accept = c("text/csv", "text/comma-separated-values,text/plain", ".csv")) %>%

bsPopover("click browse to upload .csv file", "then click download button"),

p(),

p(),

downloadButton("report"),

)

)

)

ui <- dashboardPage(

dashboardHeader(title = "Trial converter"),

dashboardSidebar(disable = TRUE),

body

)

server <- function(input, output) {

output$report <- downloadHandler(

filename = "report.doc",

content = function(file) {

tempReport <- file.path(tempdir(), "ISRCTNcode.Rmd")

file.copy("ISRCTNcode.Rmd", tempReport, overwrite = TRUE)

params <- list(report.data = input$inputfile$datapath)

rendered\_report <- rmarkdown::render(

tempReport,

output\_file = file,

params = params,

envir = new.env(parent = globalenv())

)

file.copy(rendered\_report, file)

}

)

}

shinyApp(ui, server)

**WHOapp.R**

library(shiny)

library(shinydashboard)

library(tidyverse)

library(lubridate)

library(here)

library(spsComps)

library(kableExtra)

body <- dashboardBody(

fluidRow(

box(title = "WHO", width = 4, solidHeader = TRUE,

fileInput(inputId = "inputfile", "", multiple = FALSE, accept = c("text/csv", "text/comma-separated-values,text/plain", ".csv")) %>%

bsPopover("click browse to upload .csv file", "then click download button"),

p(),

p(),

downloadButton("report"),

)

)

)

ui <- dashboardPage(

dashboardHeader(title = "Trial converter"),

dashboardSidebar(disable = TRUE),

body

)

server <- function(input, output) {

output$report <- downloadHandler(

filename = "report.doc",

content = function(file) {

tempReport <- file.path(tempdir(), "WHOcode.Rmd")

file.copy("WHOcode.Rmd", tempReport, overwrite = TRUE)

params <- list(report.data = input$inputfile$datapath)

rendered\_report <- rmarkdown::render(

tempReport,

output\_file = file,

params = params,

envir = new.env(parent = globalenv())

)

file.copy(rendered\_report, file)

}

)

}

shinyApp(ui, server)

**MTEP MIB versions**

**CTcodeMTEP**

---

output: word\_document

params:

report.data:

table: [some object]

---

```{r setup, echo=FALSE, message=FALSE, warning=FALSE}

library(kableExtra)

library(knitr)

library(tidyverse)

library(lubridate)

library(here)

knitr::opts\_chunk$set(echo = FALSE,

warning = FALSE,

message = FALSE)

```

```{r loaddata}

df <- read\_csv(params$report.data)

```

```{r formatdf}

df <- df %>%

mutate(Results\_URL = `NCT Number`) %>%

mutate(`Study URL` = str\_replace(`Study URL`, "^", "(")) %>%

mutate(`Study URL`= str\_replace(`Study URL`, "$", ")")) %>%

mutate(`Study Title` = str\_replace(`Study Title`, "^", "\*\*Title:\*\* [")) %>%

mutate(`Study Title` = str\_replace(`Study Title`, "$", "]")) %>%

unite(`Study Title`, `Study Title`, `Study URL`, sep = "", na.rm=TRUE) %>%

mutate(`NCT Number` = str\_replace(`NCT Number`, "^", "\*\*Study number:\*\* ")) %>%

mutate(Status = str\_replace(Status, "^", "\*\*Status:\*\* ")) %>%

mutate(Conditions = str\_replace(Conditions, "^", "\*\*Indication:\*\* ")) %>%

mutate(Conditions = str\_replace\_all(Conditions, "\\|", "; ")) %>%

mutate(Interventions = str\_replace(Interventions, "^", "\*\*Devices:\*\* ")) %>%

mutate(Interventions = str\_replace\_all(Interventions, "\\|", "; ")) %>%

mutate(`Completion Date` = format(mdy(`Completion Date`),"%B %Y")) %>%

mutate(`Completion Date` = str\_replace(`Completion Date`, "^", "\*\*Completion Date:\*\* ")) %>%

mutate(Locations = str\_replace(Locations, "^", "\*\*Locations:\*\* ")) %>%

mutate(Locations = str\_replace\_all(Locations, "\\|", "; "))

df[ , 'Publication'] <- "\*\*Publication:\*\* \*add publications or delete if not relevant\*"

df$blank <-c("\\")

df <- select(df, `Study Title`, `NCT Number`, Status, Conditions, Interventions, `Completion Date`, Locations, Publication, blank)

kable(df[1:9], col.names = NULL)

```

ISRCTNcodeMTEP

---

output: word\_document

params:

report.data: NA

table: [some object]

---

```{r setup, echo=FALSE, message=FALSE, warning=FALSE}

library(kableExtra)

library(knitr)

library(tidyverse)

library(lubridate)

library(here)

knitr::opts\_chunk$set(echo = FALSE,

warning = FALSE,

message = FALSE)

```

```{r loaddata}

df <- read\_csv(params$report.data)

```

```{r formatdf}

df <- df

df <- df %>%

mutate(URL = ISRCTN) %>%

mutate(URL = str\_replace(URL,"^", "<https://www.isrctn.com/>")) %>%

mutate(URL = str\_replace(URL, "^", "("))%>%

mutate(URL = str\_replace(URL, "$", ")"))%>%

mutate(Title = str\_replace(Title, "^", "\*\*Title:\*\* [")) %>%

mutate(Title = str\_replace(Title, "$", "]")) %>%

unite(Title, Title, URL, sep = "", na.rm=TRUE, remove = FALSE) %>%

mutate(ISRCTN = str\_replace(ISRCTN, "^", "\*\*Study number:\*\* ")) %>%

mutate(`Overall study status` = str\_replace(`Overall study status`, "^", "\*\*Status:\*\* ")) %>%

unite(`Overall study status`, `Overall study status`, `Recruitment status`, sep = "- ", na.rm=TRUE) %>%

mutate(Condition = str\_replace(Condition, "^", "\*\*Indication:\*\* ")) %>%

mutate(Condition = str\_replace\_all(Condition, "\\|", "; ")) %>%

mutate(`Intervention type` = str\_replace\_all(`Intervention type`, "\\|", "; ")) %>%

mutate(`Intervention type` = str\_replace(`Intervention type`, "^", "\*\*Devices:\*\* ")) %>%

unite(`Intervention type`, `Intervention type`, `Drug/device/biological/vaccine name(s)`, sep = "; ", na.rm=TRUE, remove = FALSE) %>%

mutate(`Overall study end date` = format(ymd(`Overall study end date`),"%B %Y")) %>%

mutate(`Overall study end date` = str\_replace(`Overall study end date`, "^", "\*\*Completion Date:\*\* ")) %>%

mutate(`Country of recruitment` = str\_replace(`Country of recruitment`, "^", "\*\*Locations:\*\* ")) %>%

mutate(`Country of recruitment` = str\_replace\_all(`Country of recruitment`, "\\;", "; ")) %>%

mutate(Publication = "\*\*Publication:\*\* \*add publications or delete if not relevant\*" ) %>%

mutate(blank = "\\")

df<-select(df,Title,ISRCTN,`Overall study status`, Condition,`Intervention type`,`Overall study end date`,`Country of recruitment`,`Publication`, blank)

kable(df[1:9], col.names = NULL)

```

WHOcodeMTEP

---

output: word\_document

params:

report.data: NA

table: [some object]

---

```{r setup, echo=FALSE, message=FALSE, warning=FALSE}

library(kableExtra)

library(knitr)

library(tidyverse)

library(lubridate)

library(here)

knitr::opts\_chunk$set(echo = FALSE,

warning = FALSE,

message = FALSE)

```

```{r loaddata}

df <- read\_csv(params$report.data)

```

```{r formatdf}

df <- df %>%

filter(`Source Register`!= "ClinicalTrials.gov")%>%

filter(`Source Register`!= "ISRCTN")%>%

mutate(`web address` = str\_remove\_all(`web address`, "[\\r\\n](file://r/n)"))%>%

mutate(`web address`= str\_replace(`web address`, "^", "(")) %>%

mutate(`web address`= str\_replace(`web address`, "$", ")")) %>%

mutate(`Scientific title` = str\_remove\_all(`Scientific title`, "[\\r\\n](file://r/n)"))%>%

mutate(`Scientific title` = str\_trim(`Scientific title`, side = c("right")))%>%

mutate(`Scientific title` = str\_replace(`Scientific title`, "^", "\*\*Title:\*\* [")) %>%

mutate(`Scientific title` = str\_replace(`Scientific title`, "$", "]")) %>%

unite(`Scientific title`, `Scientific title`, `web address`, sep = "", na.rm=TRUE)%>%

mutate(TrialID = str\_replace(TrialID, "^", "\*\*Study number:\*\* "))%>%

mutate(`Recruitment Status` = str\_replace(`Recruitment Status`, "^", "\*\*Status:\*\* "))%>%

mutate(Condition = str\_replace(Condition, "^", "\*\*Indication:\*\* ")) %>%

mutate(Condition = str\_replace\_all(Condition, "\\<br>", "; ")) %>%

mutate(Intervention = str\_replace(Intervention, "^", "\*\*Devices:\*\* ")) %>%

mutate(Intervention = str\_replace\_all(Intervention, "\\<br>", "; ")) %>%

mutate(Completiondate = "\*\*Completion Date:\*\* Not stated") %>%

mutate(Countries = str\_replace(Countries, "^", "\*\*Locations:\*\* ")) %>%

mutate(Countries = str\_replace\_all(Countries, "\\;", "; "))

df[ , 'Publication'] <- "\*\*Publication:\*\* \*add publications or delete if not relevant\*"

df$blank <-c("\\")

df<-select(df,`Scientific title`,TrialID, `Recruitment Status`,Condition,Intervention,Completiondate,Countries,Publication, blank)

kable(df[1:9], col.names = NULL)

# **Field mappings**

**e.g. Field title**: [Column reference and title + formatting notes]

The below shows how the CSV from **clinicaltrials.gov** output maps to our current template

***Phase 3 trials***

**Official title**: column C (Title) and column AA (URL)

**Study number**: [column B - NCT Number]

**Alternative names or numbers**: [column R - Other IDs *#transform pipes to semicolons*; column D - Acronym]

**Phase**: [column M - Phases *#remove text before number*]

**Methods or purpose**: would need to be added if felt necessary - Column Q might be a start

**Population:** [column x - x] [copy from the participants section in the briefing note if available. Check it against the inclusion/exclusion criteria in the trial registry for any updates]

**No. of patients**: [column N - Enrollment]

**Primary outcomes**: [column I - Outcome Measures *#split before pipe*]

**Status**: [column E - Status]

**Start date**: [column S - Start Date *#reformat?*]

**Primary Completion date**: [column T - Primary Completion Date *#reformat?*]

**Study completion date**: [column U - Completion Date *#reformat?*]

**Results**:

[IF column F = "Has Results":

column AA - URL *#insert /results before /NCT in URL*

ELSE: do nothing]

Paragraph

Paragraph

***Phase 2 trials***

**Official title**: column C and column AA (URL)

**Study number**: [column B - NCT Number]

**Alternative names or numbers**: [column R - Other IDs *#transform pipes to semicolons*; column D - Acronym]

**Methods or purpose**: would need to be added if felt necessary - Column Q might be a start

**Status**: [column E - Status]

**Start date**: [column S - Start Date *#reformat?*]

**Study completion date**: column U – may not be present

**Results**:

[IF column F = "Has Results":

column AA - URL *#insert /results before /NCT in URL*

ELSE: do nothing]

**ISRCTN**

***Phase 3 trials***

|  |
| --- |
| **Official title**: Column B – Title & **???? – no URL**  **Study number**: Column A - ISRCTN  **Alternative names or numbers**: Column AA – EUDRACT number, Column AB -IRAS number, Column AC – clinicaltrials.gov number (not often filled in)  **Phase**: Column AO – Phase (no always filled in)  **Methods or purpose**: **would need to be filled in later**  **Population:** Not same level of detail but Columns AQ – Age group, and Column AR - Gender  **No. of patients**: Column AS – Target number  **Primary outcomes**: **Does not seem to be listed**  **Status**: Column X – overall trial status & Y – Recruitment status  **Start date**: Column R – overall trial start  **Primary Completion date**: Column U – recruitment end (is this the same)  **Study completion date**: Column S – overall trial end  **Results**: Column I – basic results (rarely filled in) or Column J – peer reviewed publications |

***Phase 2 trials***

|  |
| --- |
| **Official title**: Column B – Title & **???? – no URL**  **Study number**: Column A - ISRCTN  **Alternative names or numbers**: Column AA – EUDRACT number, Column AB -IRAS number, Column AC – clinicaltrials.gov number (not often filled in)  **Methods or purpose**: **would need to be filled in later**  **Status**: Column X – overall trial status & Y – Recruitment status  **Start date**: Column R – overall trial start  **Study completion date**: Column S – overall trial end  **Results**: Column I – basic results (rarely filled in) or Column J – peer reviewed publications |

**WHO**

***Phase 3 trials***

|  |
| --- |
| **Official title**: Column D – Scientific Title & Column K - web address  **Study number**: Column A - Trial ID  **Alternative names or numbers**: not shown  **Phase**: Column U – Phase (not always filled in) - some presented as dates  **Methods or purpose**: **would need to be filled in later**  **Population:** Not same level of detail but Columns N - Inclusion agemin, Column O - inclusion agemax, Column P - Inclusion gender. Or Column AC - inclusion criteria - but that’s rarely filled in *[TH - possibly ignore this]*  **No. of patients**: Column R – Target size  **Primary outcomes**: Column AG - primary outcome *[Non-standard formatting may take some pulling apart]*  **Status**: Column L - recruitment status  **Start date**: Column G - date registration (is this same)  **Primary Completion date**: not shown  **Study completion date**: not shown  **Results**: Column AK - results url (links to trials.gov usually) |

***Phase 2 trials***

|  |
| --- |
| **Official title**: Column D – Scientific Title & Column K - web address  **Study number**: Column A - Trial ID  **Alternative names or numbers**: not shown  **Phase**: Column U – Phase (not always filled in)  **Methods or purpose**: **would need to be filled in later**  **Status**: Column L - recruitment status  **Start date**: Column G - date registration (is this same)  **Study completion date**: not shown  **Results**: Column AK - results url (links to trials.gov usually) |

Code and test csv saved here:

[L:\IR\\_IS\Learning & Dev\Coding group\Current projects\Trials registries\Testing](file:///L:/IR/_IS/Learning%20&%20Dev/Coding%20group/Current%20projects/Trials%20registries/Testing/CTIS)

***Phase 3 trials***

|  |
| --- |
| **Official title**: Title of the clinical trial  **Study number**: Trial number  **Alternative names or numbers**: N/A  **Phase**: Trial phase - a few different variations:  Phase II and Phase III (Integrated)  Therapeutic exploratory (Phase II)  Human Pharmacology (Phase I)- Other  **Methods or purpose**: **would need to be filled in later**  **Population: would need to be filled in later** - tick box options only e.g. 0-17 years, 18-64 years, 65+ years. Some values are repeated within the same column, we need to investigate if this relates to different trial countries.  **No. of patients**: Column S - Total number enrolled - the data is based on authorised EU countries and could be subject to change  **Primary outcomes**: Column U - Primary end point  **Status**: Column C - Overall trial status - different status per country  **Start date**: Column E - Overall start date of the trial (in the EU)  **Primary Completion date**:  **Study completion date**: Columns F or T: Overall end date of the trial (in the EU) OR Overall end of the trial  **Results**: Results first received (no data for any of the 118 trials available) |

Current code 02/03/2023:

---

output: word\_document

params:

report.data:

table: [some object]

---

```{r link chunk, echo=FALSE, message=FALSE, warning=FALSE}

knitr::opts\_chunk$set(warning = FALSE, message = FALSE)

# Import packages. Double check if any of these are extraneous at the end

library(kableExtra)

library(knitr)

library(tidyverse)

library(lubridate)

library(here)

#Import CSV file - we'll need to modify this like Rob did so that it interacts with Shiny once we're done tidying everything.

df <- read\_csv("CTIS.csv")

df <- df |>

#create a new URL column using the trial number. Create a unique URL by inserting the trial number into the URL (after section of URL on line 27 and after URL on line 28 e.g <https://euclinicaltrials.eu/app/#/view/2022-500186-27-00?lang=en> )

mutate(URL = `Trial number`) |>

mutate(URL = str\_replace(URL,"^", "<https://euclinicaltrials.eu/app/#/view/>")) |>

mutate(URL = str\_replace(URL, "$", "?lang=en"))|>

mutate(URL = str\_replace(URL, "^", "("))|>

mutate(URL = str\_replace(URL, "$", ")"))|>

mutate(Title = `Title of the clinical trial`) |>

#create title column. Addedline 34, as some records don't have titles but do have URLs

mutate(Title = str\_replace\_na(Title, "Title not stated")) |>

mutate(Title = str\_replace(Title, "^", "\*\*Title:\*\* [")) |>

mutate(Title = str\_replace(Title, "$", "]")) |>

unite(Title, Title, URL, sep = "") |>

mutate(`Trial number`= str\_replace(`Trial number`, "^", "\*\*Study number: \*\*")) |>

mutate(`Alternative names` = "\*\*Alternative names and numbers:\*\* Not stated") |>

#remove all words we don't need from the trial phase column - may be another way of doing this

mutate(`Trial phase` = str\_remove\_all(`Trial phase`, "Therapeutic|exploratory|use|confirmatory|Integrated|Human|Pharmacology|Other|-| \\(|\\)"))|>

#mutate('Trial phase' = str\_replace\_all('Trial phase', "phase", "Phase")) |>

#mutate(Phase2 = str\_extract\_all(`Trial phase`, Phase))

#mutate(`Trial phase` = case\_when(str\_detect(`Trial phase`, " IV") == TRUE ~ "4",

# str\_detect(`Trial phase`, " III") == TRUE ~ "3",

#str\_detect(`Trial phase`, " II") == TRUE ~ "2",

# str\_detect(`Trial phase`, " I") == TRUE ~ "1"))

mutate(MoP = "\*\*Methods or purpose:\*\* \*(if not clear from title)\*") |>

mutate(Population = "\*\*Population:\*\* ") |>

mutate(Enrollment = str\_replace(`Total number enrolled`, "^", "\*\*No. of patients:\*\* ")) |>

mutate(`Primary end point` = "\*\*Primary outcomes:\*\*") |>

mutate(`Overall start date of the trial (in the EU)`=format(dmy(`Overall start date of the trial (in the EU)`),"%B %Y"))|>

mutate(`Overall start date of the trial (in the EU)` = str\_replace(`Overall start date of the trial (in the EU)`, "^", "\*\*Start date:\*\* ")) |>

#if results are NA add 'results not stated' for everything else add 'available at CTIS'

mutate(`Results first received` = case\_when(is.na(`Results first received`) != TRUE ~ paste("\*\*Results\*\*: [Available at CTIS]", URL, sep = ""),(is.na(`Results first received`) == TRUE ~ "\*\*Results\*\*: Not stated"))) |>

mutate(`Results first received` = str\_replace(`Results first received`, "^", "\*\*Results:\*\* ")) |>

df<-select(df,Title,`Trial number`, `Alternative names`,`Trial phase`, MoP, Population, Enrollment, `Primary end point`, `Overall start date of the trial (in the EU)` )

kable(df[1:9], col.names = NULL)

```