Package ‘icertool’

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Title Calculate and Plot ICER

Version 0.0.3


License GPL-3

Encoding UTF-8

RoxygenNote 7.1.2

Imports shiny, shinythemes, purrr, DT, tidyverse, readxl, ggplot2, ggrepel, digest, shinyhelper

NeedsCompilation no

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Calculate the ICER and Plot the Efficiency Frontier

Description

The app will calculate the ICER (incremental cost-effectiveness ratio) (Rawlins, 2012) doi: 10.1016/B978070202040849.000446 from the mean costs and quality-adjusted life years (QALY) (Torrance and Feeny, 2009) doi: 10.1017/S02664623000008461 for a set of treatment options, and draw the efficiency frontier in the costs-effectiveness plane. The app automatically identifies and excludes dominated and extended-dominated options from the ICER calculation.

Usage

icertool()

Value

The function 'icertool()' does not return a value. 'icertool()' returns a plot that can be copied from the graphical interface.

In the results tab, to copy an image of the graph to a word-processor document, right-click with your mouse on the graph and select 'Copy image', then go to your word-processor document and select 'Paste Special' and 'Bitmap image'

Examples

if (interactive()){  
data.0 <- as.data.frame(read_excel("icer.xlsx"))  
cq<-myicer(data.0)  
my_ce <- ce_plot(data.0,cq)  
my_ce + theme(text = element_text(size = 12)) + geom_text_repel()  
cq  
}

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