**INTERGROWTH-21st Standards**

A simple R code to convert newborn size standards according to INTERGROWTH-21st standards

rm(list=ls(all=TRUE))

# install.packages("remotes") # if "remotes" is not already installed

# remotes::install\_github("ki-tools/growthstandards")

library(growthstandards)

setwd("~/Desktop") # change to relevant directory

data <- read.csv("data.csv") # change to relevant data

head(data)

# Birthweight

bw\_centiles = igb\_wtkg2centile(data$gagebrth, data$wtkg, data$sex)

bw\_zscores = igb\_wtkg2zscore(data$gagebrth, data$wtkg, data$sex)

# Birth length

blen\_centiles = igb\_lencm2centile(data$gagebrth, data$lencm, data$sex)

blen\_zscores = igb\_lencm2zscore(data$gagebrth, data$lencm, data$sex)

# Birth HC

bhc\_centiles = igb\_hcircm2centile(data$gagebrth, data$hcircm, data$sex)

bhc\_zscores = igb\_hcircm2zscore(data$gagebrth, data$hcircm, data$sex)

data\_with\_IG\_standards = cbind(data, bw\_centiles,bw\_zscores,blen\_centiles,blen\_zscores,bhc\_centiles,bhc\_zscores)

head(data\_with\_IG\_standards)