Descriptive Figure

Yanyao Gu

Packages

```
library(tidyverse)
-- Attaching core tidyverse packages ----- tidyverse 2.0.0 --
v dplyr 1.1.4 v readr
                                  2.1.5
v forcats 1.0.0 v stringr 1.5.1
v ggplot2 3.5.1 v tibble 3.2.1
v lubridate 1.9.3
                     v tidyr
                                  1.3.1
v purrr
          1.0.2
-- Conflicts ----- tidyverse conflicts() --
x dplyr::filter() masks stats::filter()
x dplyr::lag()
                 masks stats::lag()
i Use the conflicted package (<a href="http://conflicted.r-lib.org/">http://conflicted.r-lib.org/</a>) to force all conflicts to become
library(here)
```

here() starts at C:/Users/10415/Documents/MSc Biostats/CHL8010/version control/CHL8010_Yanya

Read in data

```
dbl (18): year, gdp1000, OECD, OECD2023, popdens, urban, agedep, male_edu, t...
i Use `spec()` to retrieve the full column specification for this data.
i Specify the column types or set `show_col_types = FALSE` to quiet this message.
```

Figure

```
data |>
 dplyr::select(country_name, ISO, year, maternalMor) |>
 dplyr::filter(year < 2018) |>
 arrange(ISO, year) |>
 group_by(ISO) |>
 mutate(diffmatmor = maternalMor - maternalMor[1L]) |>
 filter(year==2017&diffmatmor>0)|>
 select(ISO) -> ISO_increase
ISO_increase <- ISO_increase$ISO</pre>
data |>
  dplyr::select(country_name, ISO, year, maternalMor) |>
 dplyr::filter(year < 2018) |>
 arrange(ISO, year) |>
 group_by(ISO) |>
 mutate(diffmatmor = maternalMor - maternalMor[1L]) |>
 filter(ISO == ISO increase) |>
 ggplot(aes(x = year, y = maternalMor, group = ISO)) +
 geom_line(aes(color = ISO), alpha = 0.5) +
 xlim(c(2000,2017)) +
 scale_y_continuous(trans='log10')+
 labs(y = "Maternal mortality", x = "Year") +
 theme_bw()
```

```
Warning: There were 186 warnings in `filter()`.
The first warning was:
i In argument: `ISO == ISO_increase`.
i In group 1: `ISO = "AFG"`.
Caused by warning in `ISO == ISO_increase`:
!
i Run `dplyr::last_dplyr_warnings()` to see the 185 remaining warnings.
```

