

Hi,

Could you please help me? I am comparing different topics on violence against women using the R-Codes from Github DHS-Indicators and I am comparing values for the Mozambique Surveys 2011, 2015 and 2022.

Is it correct to compare these values and interpret the results as trends? For some of the results I am surprise about the changes over time.
Did the questions in the surveys remain comparable?

Thank you very much in advance for your help.

Kind reagards,
Inge

Here is an example:

```
# //Ever
dv <- dv %>%
  mutate(dv_sex =
    case_when(
      d105h>0 | d105i>0 | d105k>0 ~ 1, # violence by current partner
      d130b>0 ~ 1, # violence by former partner
      d124==1 ~ 1, # violence by anyone other than partner
      d125==1 ~ 1, # forced to perform unwanted acts
      v044==1 ~ 0 )) %>%
  set_value_labels(dv_sex = c("Yes" = 1, "No"=0)) %>%
  set_variable_labels(dv_sex = "Ever experienced sexual violence")
# Keep only years with DV module AND women selected for DV (v044 == 1)
dat_dv <- dv %>%
  filter(
    year %in% c(2011, 2015, 2022),
    v044 == 1, # selected for DV module
    !is.na(d005) # ensure weight exists
  ) %>%
  mutate( wt = d005 / 1e6, # scale DHS weights
    one = 1)

any(is.na(dat_dv$wt)) # should be FALSE

# Survey design on the DV dataset
dhs_design<- svydesign(id = dat_dv$v021,
```

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strata = dat_dv$v022,
weights = dat_dv$wt, data = dat_dv, nest = T)
options(survey.lonely.psu = "adjust")

```

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# Restrict to: selected for DV module
dhs_design_mod <- subset(dhs_design, v044 == 1)

```

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# 1. Denominator: total eligible women per year (weighted)

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```

tot_dv_mod <- svyby(
  ~one,
  ~year,
  dhs_design_mod,
  svytotal,
  na.rm = TRUE) %>%
  rename(total_year = one, se_t = se)

```

```

tot_dv_mod
sex_ever_mod <- svyby(
  ~one,
  ~dv_sex + year,
  dhs_design_mod,
  svytotal,
  na.rm = TRUE)

```

```

sex_ever_tab_mod <- sex_ever_mod %>%
  left_join(tot_dv_mod, by = "year") %>%
  mutate(
    Variable = "Ever experienced sexual violence",
    Category = ifelse(dv_sex == 1, "Yes", "No"),
    N = round(one),
    Year = year,
    Weighted_percentage = round((one / total_year) * 100, 2),
    lower_CI = round(((one - 1.96 * se) / total_year) * 100, 2),
    upper_CI = round(((one + 1.96 * se) / total_year) * 100, 2)) %>%
  select(Year, Variable, Category, N, Weighted_percentage, lower_CI, upper_CI)

```

```

sex_ever_tab_mod
sex_ever_tab_mod

```

	Year	Variable	Category	N	Weighted_percentage	lower_CI	upper_CI
1	2011	Ever experienced sexual violence	No	6274	91.80	84.64	98.96
2	2011	Ever experienced sexual violence	Yes	561	8.20	7.04	9.36
3	2015	Ever experienced sexual violence	No	3236	93.75	81.72	105.77
4	2015	Ever experienced sexual violence	Yes	216	6.25	4.96	7.54
5	2022	Ever experienced sexual violence	No	3564	74.04	68.16	79.93
6	2022	Ever experienced sexual violence	Yes	1249	25.96	23.03	28.89

```

>

```