National administration level data:

This data has a geographic breakdown to the country-level and no further. It only considers the contraceptive method supply shares reflective of the entire nation.

Multi-country estimation:

Estimate the contraceptive method supply shares for all the countries present in the data simultaneously.

Example national-level multi-country estimation:

```
cleaned_natdata <-
get_data(national=TRUE)


pkg_data <-
get_modelinputs(startyear=199
0, endyear=2025.5,
nsegments=12, raw_data =
cleaned_natdata)


mod <-
run_jags_model(jagsdata =
pkg_data, jagsparams = NULL,
n_iter = 80000, n_burnin =
10000, n_thin = 35)


plots <-
plot_estimates(jagsdata =
pkg_data, model_output = mod)
```

Single-country estimation:

Estimate the contraceptive method supply shares for one country only.

Example national-level single-country estimation:

```
cleaned_natdata <-
get_data(national=TRUE,
local=TRUE,
mycountry="Nepal")


pkg_data <-
get_modelinputs(startyear=199
0, endyear=2025.5,
nsegments=12, raw_data =
cleaned_natdata)


mod <-
run_jags_model(jagsdata =
pkg_data, jagsparams = NULL,
n_iter= 20000, n_burnin =
2000, n_thin = 9)


plots <-
plot_estimates(jagsdata =
pkg_data, model_output = mod)
```

Subnational administration level data:

This data has a geographic breakdown to the province-level. It only considers the contraceptive method supply shares reflective of the subnational provinces within a country.

Multi-country estimation:

Estimate the contraceptive method supply shares for the provinces in every country present in the data simultaneously.

Example subnational-level multi-country estimation:

```
cleaned_data <-
get_data(national=FALSE)


pkg_data <-
get_modelinputs(startyear=1990,
endyear=2025.5, nsegments=12,
raw_data = cleaned_data)


mod <- run_jags_model(jagsdata
= pkg_data, jagsparams = NULL,
n_iter = 80000, n_burnin =
10000, n_thin = 35)


plots <-
plot_estimates(jagsdata =
pkg_data, model_output = mod)
```

Single-country estimation:

Estimate the contraceptive method supply shares for the provinces in one country only.

Example subnational-level single-country estimation:

```
cleaned_data <-
get_data(national=FALSE,
local=TRUE,
mycountry="Nepal")


pkg_data <-
get_modelinputs(startyear=1990
, endyear=2025.5,
nsegments=12, raw_data =
cleaned_data)


mod <- run_jags_model(jagsdata
= pkg_data, jagsparams = NULL,
n_iter = 40000, n_burnin =
10000, n_thin = 15)


plots <-
plot_estimates(jagsdata =
pkg_data, model_output = mod)
```