

# Application

```
suppressPackageStartupMessages(library("simaerep"))
```

```
set.seed(1)
```

```
df_visit <- sim_test_data_study(  
  n_pat = 1000, # number of patients in study  
  n_sites = 100, # number of sites in study  
  frac_site_with_ur = 0.05, # fraction of sites under-reporting  
  ur_rate = 0.4, # rate of under-reporting  
  ae_per_visit_mean = 0.5 # mean AE per patient visit  
)
```

```
df_visit$study_id <- "A"
```

```
df_site <- site_aggr(df_visit)
```

```
df_sim_sites <- sim_sites(df_site, df_visit, r = 1000)
```

```
df_eval <- eval_sites(df_sim_sites, r_sim_sites = 1000)
```

```
plot_study(df_visit, df_site, df_eval, study = "A")
```

