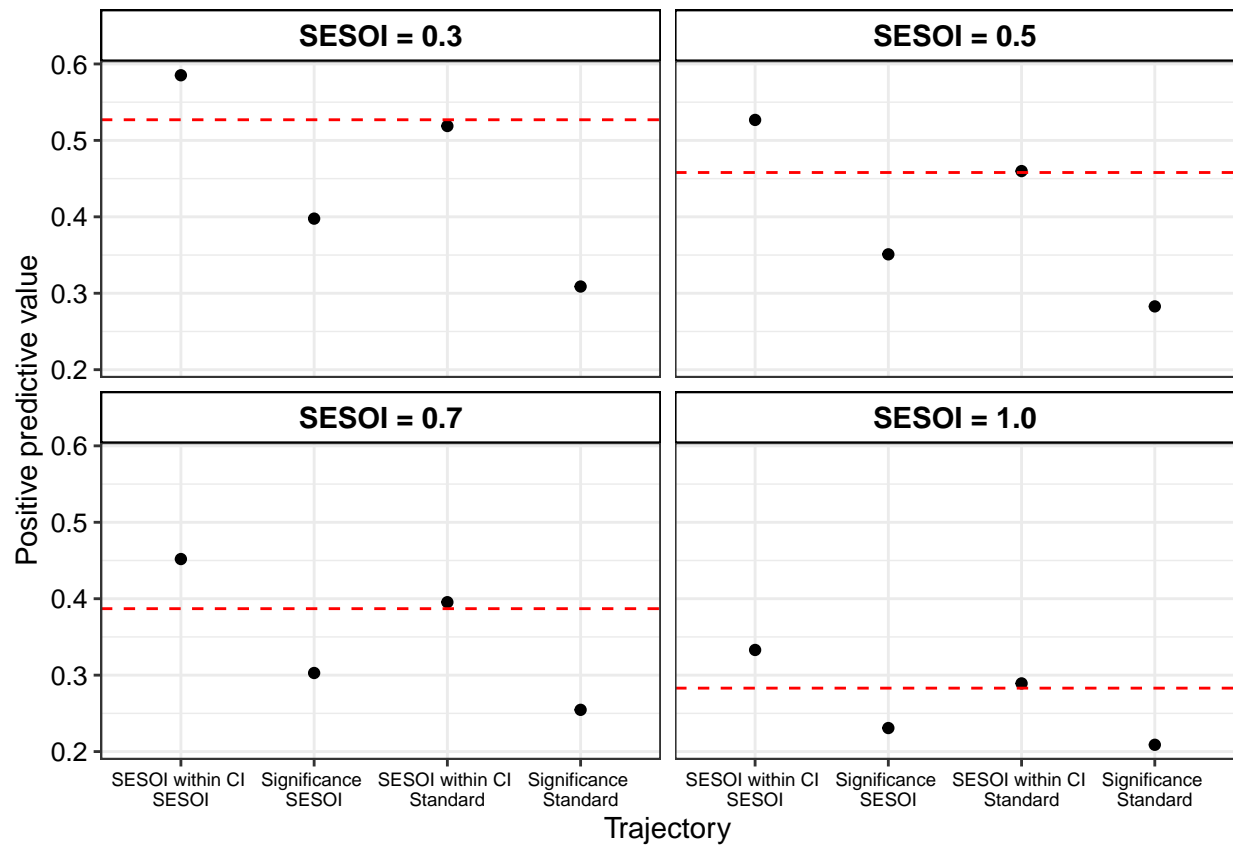


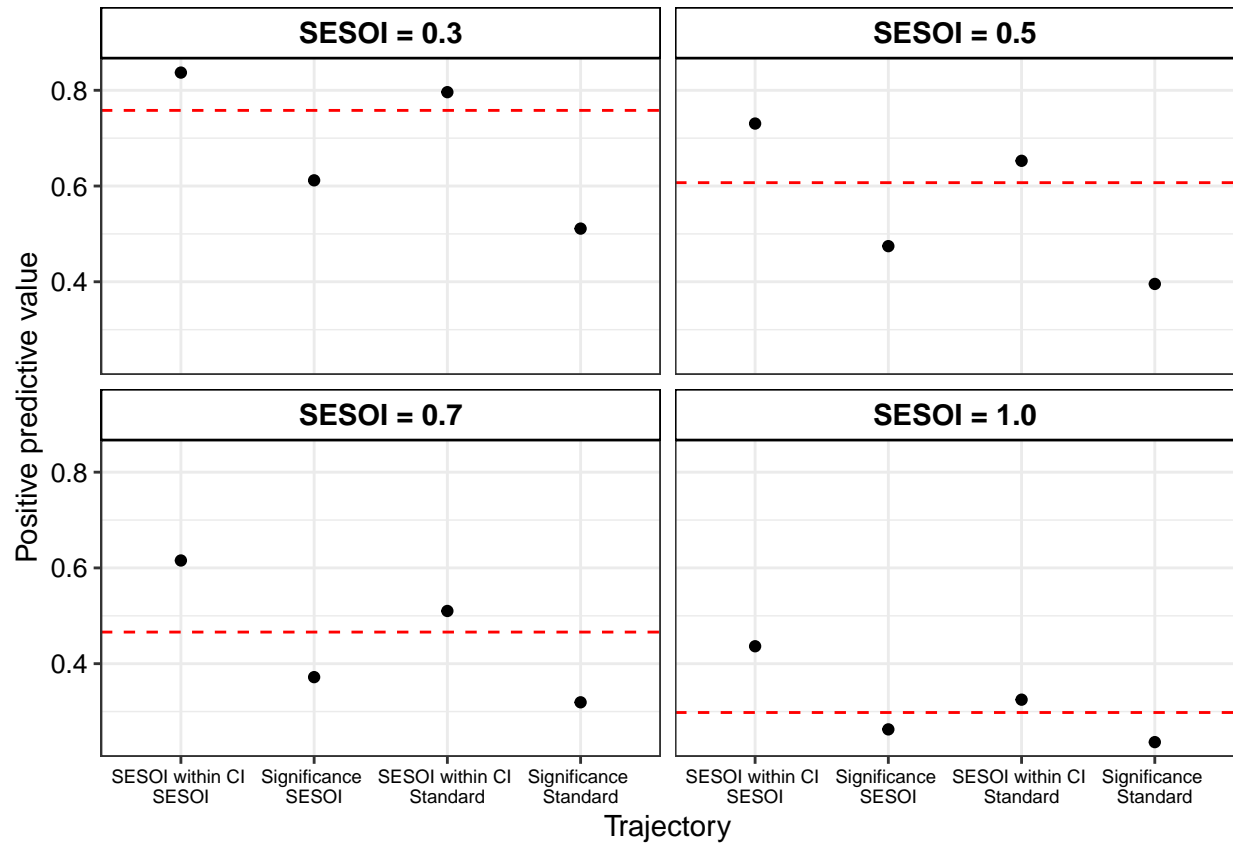
Supplementary plots

1 PPV for all trajectories and SESOI

Pessimistic scenario (Carneiro distribution)



Optimistic scenario (Szucs distribution)



```
facet_names <-
  c("equivalence.SESOI" = "SESOI within CI \nSESOI ",
    "significance.SESOI" = "Significance \nSESOI",
    "equivalence.standard" = "SESOI within CI \nStandard",
    "significance.standard" = "Significance \nStandard")

plot_PPV <-
  ggplot(data = outcomes_10EU,
    aes(x = SESOI, y = PPV_pop_prev)) +
  geom_point(size = 1.5) +
  facet_wrap(~ trajectory, nrow = 2, ncol = 2, labeller = labeller(.rows = facet_names))
  labs(x = "SESOI", y = "Positive predictive value") +
```

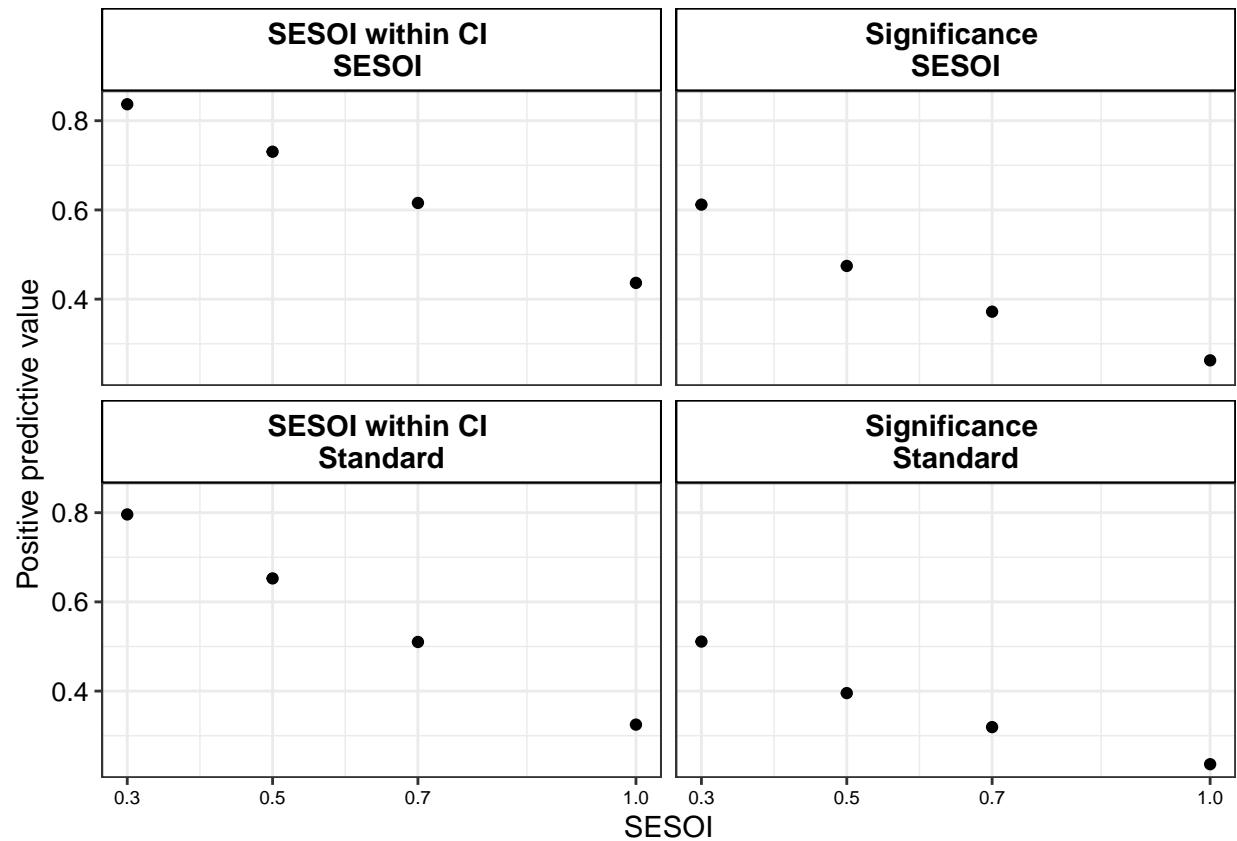
```

# scale_x_discrete(labels = c("SESOI within CI \nSESOI",
#                               "Significance \nSESOI",
#                               "SESOI within CI \nStandard",
#                               "Significance \nStandard")) +
scale_x_continuous(breaks = c(0.3, 0.5, 0.7, 1.0)) +
theme_bw() +
theme(axis.title.x = element_text(size = 11)) +
theme(axis.title.y = element_text(size = 11)) +
theme(axis.text.x = element_text(size = 7, colour = "black")) +
theme(axis.text.y = element_text(size = 10, colour = "black")) +
theme(strip.text.x = element_text(size = 11, colour = "black", face = "bold")) +
theme(strip.text.y = element_text(size = 11, colour = "black", face = "bold")) +
theme(strip.background = element_rect(fill = "white", color = "black"))

# hlines <- data.frame(pre_study_odds = c(outcomes_10EU$Prevalence[1], outcomes_10EU$P
#                                         outcomes_10EU$Prevalence[9], outcomes_10EU$P
#                                         # distribution = c(rep(plot_data$distribution[1], 2),
#                                         #               rep(plot_data$distribution[5], 2)),
#                                         SESOI = rep(c("1", "0.7", "0.5", "0.3")))
#
#
# plot_PPV <-
#   plot_PPV +
#   geom_hline(data = hlines,
#             aes(yintercept = pre_study_odds),
#             color = "red", lty = 2, size = .5)

plot_PPV

```



```

facet_names <-
  c("equivalence.SESOI" = "SESOI within CI \n SESOI ",
    "significance.SESOI" = "Significance \n SESOI",
    "equivalence.standard" = "SESOI within CI \n Standard",
    "significance.standard" = "Significance \n Standard")

plot_FPR <-
  ggplot(data = outcomes_10EU,
         aes(x = SESOI, y = FPR)) +
  geom_point(size = 1.5) +
  facet_wrap(~ trajectory, nrow = 2, ncol = 2, labeller = labeller(.rows = facet_names))
  labs(x = "SESOI", y = "False positive rate") +
  # scale_x_discrete(labels = c("SESOI within CI \n SESOI",

```

```

#           "Significance \nSESOI",
#           "SESOI within CI \nStandard",
#           "Significance \nStandard")) +
scale_x_continuous(breaks = c(0.3, 0.5, 0.7, 1.0)) +
theme_bw() +
theme(axis.title.x = element_text(size = 11)) +
theme(axis.title.y = element_text(size = 11)) +
theme(axis.text.x = element_text(size = 7, colour = "black")) +
theme(axis.text.y = element_text(size = 10, colour = "black")) +
theme(strip.text.x = element_text(size = 11, colour = "black", face = "bold")) +
theme(strip.text.y = element_text(size = 11, colour = "black", face = "bold")) +
theme(strip.background = element_rect(fill = "white", color = "black"))

# hlines <- data.frame(pre_study_odds = c(outcomes_10EU$Prevalence[1], outcomes_10EU$P
#           outcomes_10EU$Prevalence[9], outcomes_10EU$P
#           # distribution   = c(rep(plot_data$distribution[1], 2),
#           #               rep(plot_data$distribution[5], 2)),
#           SESOI           = rep(c("1", "0.7", "0.5", "0.3")))
#
#
# plot_PPV <-
#   plot_PPV +
#   geom_hline(data = hlines,
#             aes(yintercept = pre_study_odds),
#             color = "red", lty = 2, size = .5)

plot_FPR

```

