EDU binary

2024-11-10

```
orig_list <- readRDS("~/MPA EDU/data/raw-ish/education_export_21Oct2024.Rds")
```

Education Section Binary

Does the plan have an education plan?

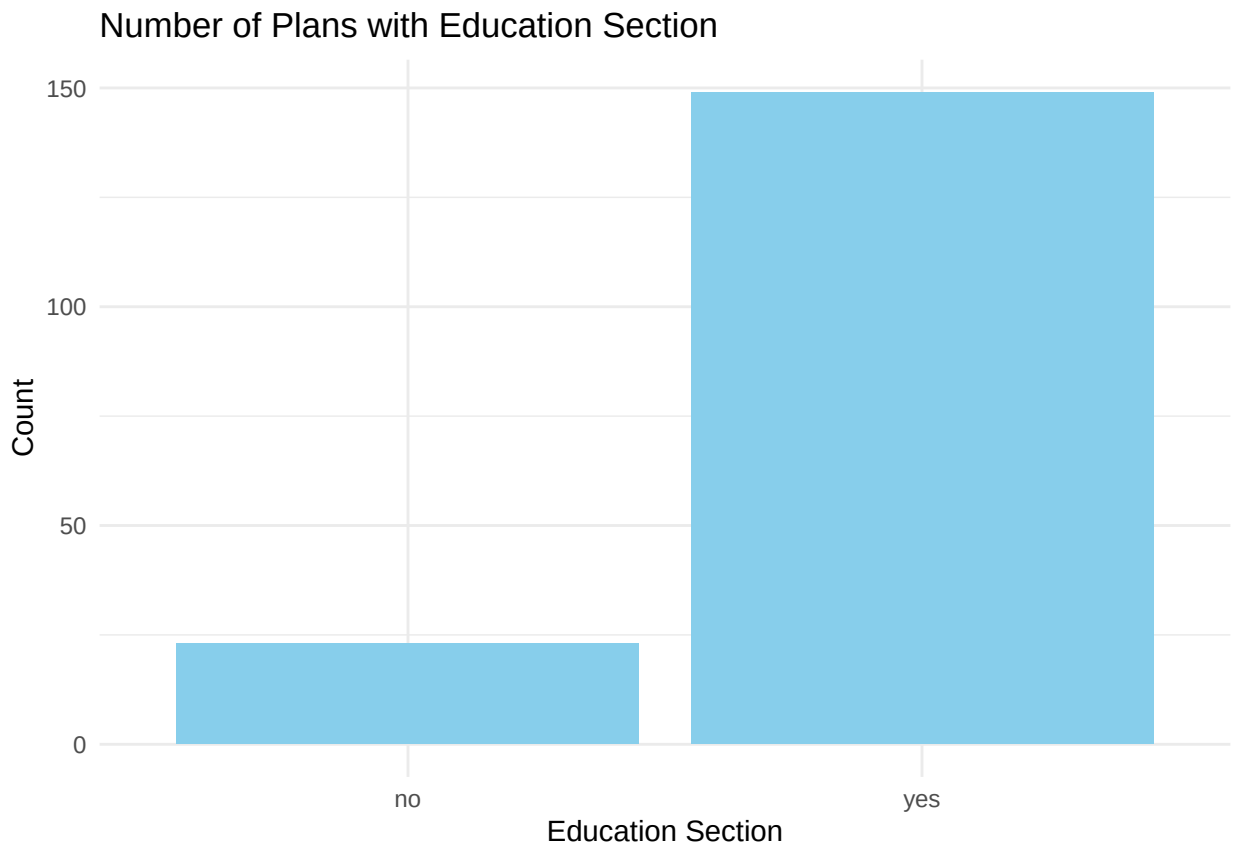
```
edu_sect <- orig_list |>
  filter(edu_section_binary == 1 | edu_section_binary == 0) |>
  distinct(plan_id, name, edu_section_binary)

edu_sect_summary <- edu_sect |>
  group_by(edu_section_binary) |>
  count()
```

```
n_yes <- edu_sect |>
  filter(edu_section_binary == 1) |>
  count()
```

```
edu_binary_df <- data.frame(edu = c(0, 1), count = c(23, 149))

ggplot(edu_binary_df, aes(x = factor(edu), y = count)) +
  geom_bar(stat = "identity", fill = "skyblue") +
  labs(title = "Number of Plans with Education Section",
       x = "Education Section",
       y = "Count") +
  scale_x_discrete(label = c("0" = "no", "1" = "yes")) +
  theme_minimal()
```



EDU staff binary

Is the education section staffed?

```
staff_binary <- orig_list |>
  filter(edu_staff_binary == 0 | edu_staff_binary == 1) |>
  distinct( plan_id, name, edu_staff_binary)

staff_binary_summary <- staff_binary |>
  group_by(edu_staff_binary) |>
  count()
```

```
staff_binary_df <- data.frame(staff = c(0, 1), count = c(49, 105))

staff_binary_plot <- ggplot(data = staff_binary_df, aes(x = factor(staff), y = count)) +
  geom_bar(stat = "identity", fill = "lightgreen") +
  labs(title = "Number of Plans with Staffed Education Section", x = "Staff", y = "count") +
  scale_x_discrete(label = c("0" = "no", "1" = "yes")) +
  theme_minimal()
```

EDU funding

Does the plan's education section have funding?

```r
funding_binary <- orig_list |>
  filter(edu_funding_binary == 0 | edu_funding_binary == 1) |>
  distinct(plan_id, name, edu_funding_binary)

funding_binary_summary <- funding_binary |>
  group_by(edu_funding_binary) |>
  count()
```

```r
funding_binary_df <- data.frame(funding = c(0,1), count = c(134, 27))

funding_binary_plot <- ggplot(funding_binary_df, aes(x = factor(funding), y = count)) +
  geom_bar(stat = "identity", fill = "violet") +
  labs(title = "Number of Plans with Funded Education Section", x = "Funding", y = "count") +
  scale_x_discrete(label = c("0" = "no", "1" = "yes")) +
  theme_minimal()
```

```r
#
# # Install and load cowplot if not already installed
# install.packages("cowplot")
# library(cowplot)
#
# # Arrange the plots side by side
# plot_grid(funding_binary_plot, staff_binary_plot, ncol = 2)
```

EDU outcome

A measurable outcome detailed by the plan was achieved or not

```r
outcome_binary <- orig_list |>
  filter(edu_outcome_binary == 1 | edu_outcome_binary == 0) |>
  distinct(plan_id, name, edu_outcome_binary)

outcome_binary_summary <- outcome_binary |>
  group_by(edu_outcome_binary) |>
  count()
```

EDU indicator binary

indicates whether the plan's desired outcomes were met or not

```r
indicator_binary <- orig_list |>
  filter(edu_indicator_binary == 1 | edu_indicator_binary == 0) |>
  distinct(plan_id, name, edu_indicator_binary)

indicator_binary_summary <- indicator_binary |>
  group_by(edu_indicator_binary) |>
  count()
```

Results

```r
# Data frame by row; columns are objective, yes, no, total, percentage yes

objective <- c("EDU", "Staff", "Funding", "Outcome", "Indicator")
n_yes_total <- c(149, 105, 27, 116, 51)
n_no <- c(23, 49, 134, 40, 110)
n_total <- c(172, 154, 134, 156, 161)
percentages <- c(86.6, 68.2, 16.8, 74.4, 31.8)
result_df <- data.frame(objective = objective, yes = n_yes_total, no = n_no, total = n_total, percent =

kable(result_df, colnames = c("Objective", "Yes", "No", "Total", "Percentage Yes"))
```

objective	yes	no	total	percent
EDU	149	23	172	86.6
Staff	105	49	154	68.2
Funding	27	134	134	16.8
Outcome	116	40	156	74.4
Indicator	51	110	161	31.8