Group E Tables

Jinyu Luo

2024-04-12

MMR

Model Selection

```
data.frame(
  struc = c("Exchangeable", "AR1", "Independence"),
  QIC = c(3007.5, 3015.7, 3015.8,
          3027.8, 3046.3, 3046.6),
  delta = c(0.00, 8.25, 8.26,
            0.00, 18.54, 18.86),
  weight = c(0.969, 0.016, 0.016,
             1, 0, 0)) %>%
  kable(booktabs = TRUE,
        col.names = c("Structure", "QIC", "Delta", "Weight"),
        caption = "Model Selection Result for MMR Rate") %>%
  kable_styling(latex_options = c("striped", "scale_down")) %>%
  pack_rows("Unadjusted", 1, 3) %>%
  pack_rows("Adjusted", 4, 6)
```

```
## Warning in styling_latex_scale(out, table_info, "down"): Longtable cannot be
## resized.
```

Table 1: Model Selection Result for MMR Rate

Structure	QIC	Delta	Weight
Unadjusted			
Exchangeable	3007.5	0.00	0.969
AR1	3015.7	8.25	0.016
Independence	3015.8	8.26	0.016
Adjusted			
Exchangeable	3027.8	0.00	1.000
AR1	3046.3	18.54	0.000
Independence	3046.6	18.86	0.000

MMR Best Model Estimation Table

```r
data.frame(
  ` ` = c("Intercept", "Per Capita", "Number of Schools",
          "Others", "Private", "Public", "Unknown"),
  Estimate = c(84.8, 0.000376, 0.000377, 6.13, 0.432, 5.31, 3.32),
  Std.err = c(2.06, 0.000142, 0.000279, 0.691, 1.18, 0.205,1.34),
  Wald = c(1693.9, 7.02, 1.83, 78.69, 0.13, 669.09, 6.11),
  `P-value` = c("< 0.05", "< 0.05", "0.1757", "<0.05",
                "0.7151", "<0.05", "0.0135")
)%>%
  kable(booktabs = TRUE,
        caption = "Best Model Estimation Result for MMR Vaccination Rate") %>%
  kable_styling(latex_options = c("striped", "scale_down")) %>%
  pack_rows("School Type", 4, 7)
```

```
## Warning in styling_latex_scale(out, table_info, "down"): Longtable cannot be
## resized.
```

Table 2: Best Model Estimation Result for MMR Vaccination Rate

X.	Estimate	Std.err	Wald	P.value
Intercept	8.48e+01	2.060000	1693.90	< 0.05
Per Capita	3.76e-04	0.000142	7.02	< 0.05
Number of Schools	3.77e-04	0.000279	1.83	0.1757
School Type				
Others	6.13e+00	0.691000	78.69	<0.05
Private	4.32e-01	1.180000	0.13	0.7151
Public	5.31e+00	0.205000	669.09	<0.05
Unknown	3.32e+00	1.340000	6.11	0.0135

Overall

Model Selection

```
data.frame(
  struc = c("Exchangeable", "Independence", "AR1"),
  QIC = c(2934.4, 3012.3, 3012.3),
  delta = c(0.00, 77.92, 77.94),
  weight = c(1, 0, 0)) %>%
  kable(booktabs = TRUE,
        col.names = c("Structure", "QIC", "Delta", "Weight"),
        caption = "Unadjusted Model Selection Result for Overall Rate") %>%
  kable_styling(latex_options = c("striped", "scale_down"))
```

```
## Warning in styling_latex_scale(out, table_info, "down"): Longtable cannot be
## resized.
```

Table 3: Unadjusted Model Selection Result for Overall Rate

Structure	QIC	Delta	Weight
Exchangeable	2934.4	0.00	1
Independence	3012.3	77.92	0
AR1	3012.3	77.94	0

```
data.frame(
  struc = c("AR1", "Independence", "Exchangeable"),
  QIC = c(3062.3, 3062.4, 3065.7),
  delta = c(0.00, 0.05, 3.34),
  weight = c(0.462, 0.451, 0.087)) %>%
  kable(booktabs = TRUE,
        col.names = c("Structure", "QIC", "Delta", "Weight"),
        caption = "Adjusted Model Selection Result for Overall Rate") %>%
  kable_styling(latex_options = c("striped", "scale_down"))
```

```
## Warning in styling_latex_scale(out, table_info, "down"): Longtable cannot be
## resized.
```

Table 4: Adjusted Model Selection Result for Overall Rate

Structure	QIC	Delta	Weight
AR1	3062.3	0.00	0.462
Independence	3062.4	0.05	0.451
Exchangeable	3065.7	3.34	0.087

Best Model Estimation Table

```r
data.frame(
  ` ` = c("Intercept", "Per Capita", "Number of Schools",
          "Private", "Public", "Unknown"),
  Estimate = c(79.06, 0.000813, 0.00128, -4.11, -2.04, -2.96),
  Std.err = c(4.364, 0.000496, 0.000106, 1.324, 1.260, 3.955),
  Wald = c(328.197, 2.688, 145.729, 9.642, 2.611, 0.559),
  `P-value` = c("< 0.05", "0.101", "<0.05", "<0.05", "0.106", "0.454"))%>%
  kable(booktabs = TRUE,
        caption = "Best Model Estimation Result for MMR Vaccination Rate") %>%
  kable_styling(latex_options = c("striped", "scale_down")) %>%
  pack_rows("School Type", 4, 6)
```

```
## Warning in styling_latex_scale(out, table_info, "down"): Longtable cannot be
## resized.
```

Table 5: Best Model Estimation Result for MMR Vaccination Rate

X.	Estimate	Std.err	Wald	P.value
Intercept	79.060000	4.364000	328.197	< 0.05
Per Capita	0.000813	0.000496	2.688	0.101
Number of Schools	0.001280	0.000106	145.729	<0.05
School Type				
Private	-4.110000	1.324000	9.642	<0.05
Public	-2.040000	1.260000	2.611	0.106
Unknown	-2.960000	3.955000	0.559	0.454