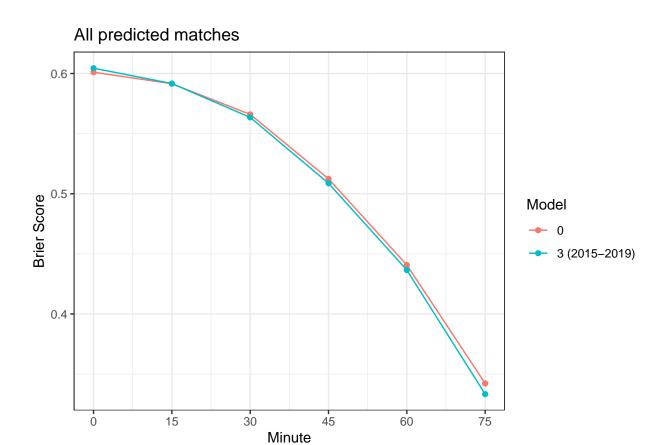
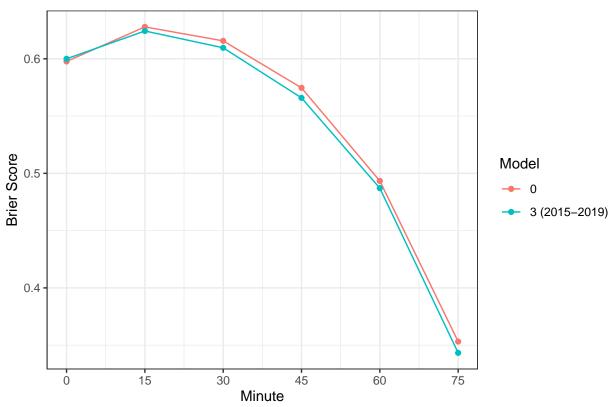
Brier Score

```
library(dplyr)
library(ggplot2)
library(tidyr)
library(knitr)
load("data/HDA.RData")
load("~/GitHub/soccer-live-predictions/soccer-live-predictions/scrape/data/reds.RData")
nrow(HDA)
## [1] 340
all = tibble(Brier = apply(HDA[,c(57:68)], 2, mean),
             Minute = as.integer(rep(c(0, 15, 30, 45, 60, 75), 2)),
             Model = factor(c(rep("0", 6), rep("3 (2015-2019)", 6)),
                            levels = c("0", "3 (2015-2019)")))
all %>%
  ggplot(aes(x = Minute, y = Brier, col = Model)) +
  geom_line() +
  geom_point() +
  scale_x_continuous(breaks = c(0, 15, 30, 45, 60, 75)) +
  theme_bw() +
  ggtitle("All predicted matches") +
  ylab("Brier Score")
```



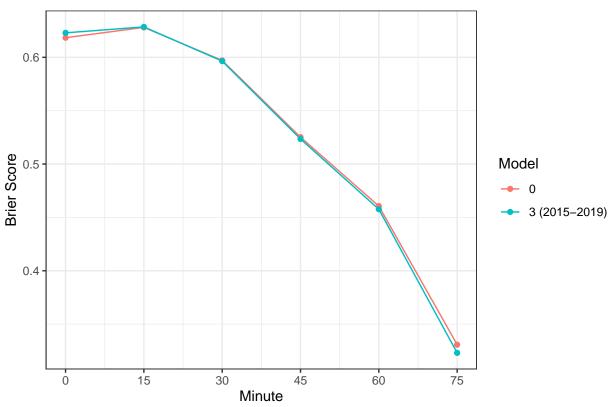
Model	Minute 0	Minute 15	Minute 30	Minute 45	Minute 60	Minute 75
0 3 (2015-2019)	0.00000	0.5915227 0.5916919	0.00000.0	0.0	000	0.0 0.0

First 100 matches



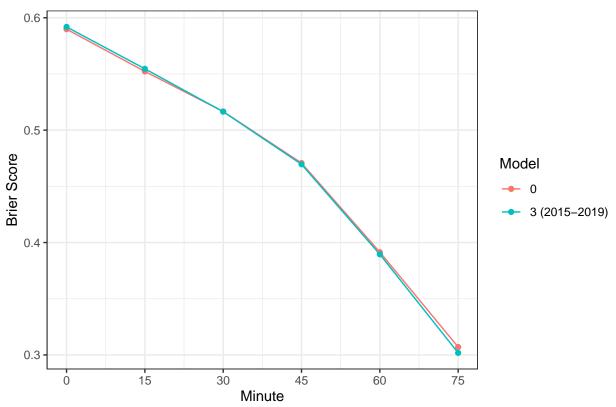
Model	Minute 0	Minute 15	Minute 30	Minute 45	Minute 60	Minute 75
0 3 (2015-2019)			$\begin{array}{c} 0.6156515 \\ 0.6095881 \end{array}$			

First 200 matches



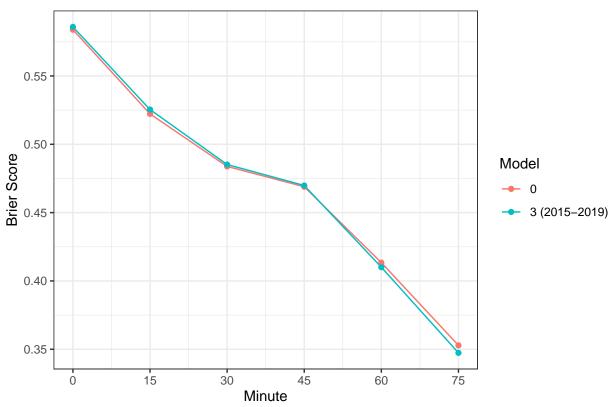
Model	Minute 0	Minute 15	Minute 30	Minute 45	Minute 60	Minute 75
0 3 (2015-2019)	0.0-000	0.0=00=00	$\begin{array}{c} 0.5971006 \\ 0.5964522 \end{array}$	0.0_0_0_	00000-0	0.000.00=

Last 200 matches



Model	Minute 0	Minute 15	Minute 30	Minute 45	Minute 60	Minute 75
0 3 (2015-2019)			$\begin{array}{c} 0.5166005 \\ 0.5164374 \end{array}$			

Last 100 matches

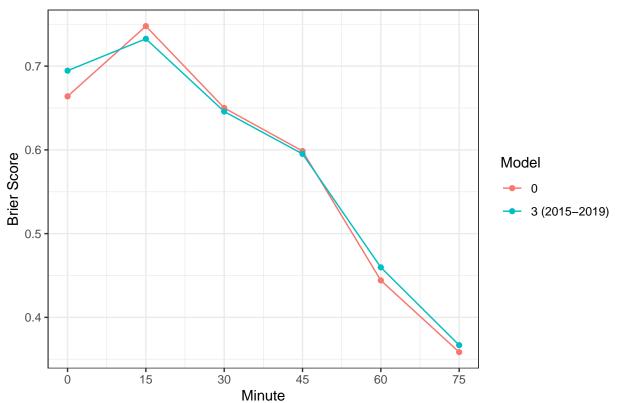


Model	Minute 0	Minute 15	Minute 30	Minute 45	Minute 60	Minute 75
0 3 (2015-2019)			$\begin{array}{c} 0.4837947 \\ 0.4851761 \end{array}$			

```
matches = reds %>%
  filter(Season == 2019, Half == 1) %>%
   .$Match
length(matches)
```

[1] 17

All matches with red cards in the first half



Model	Minute 0	Minute 15	Minute 30	Minute 45	Minute 60	Minute 75
0 3 (2015-2019)				$\begin{array}{c} 0.5986169 \\ 0.5952014 \end{array}$	-	