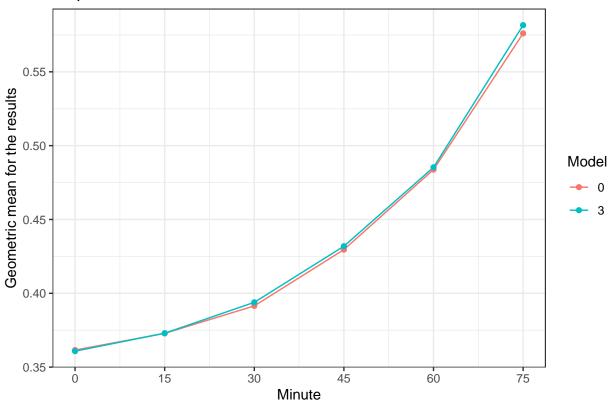
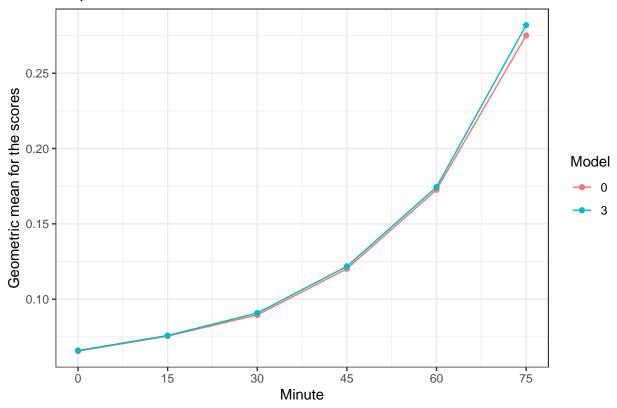
Geometric mean

All predicted matches



Model	Minute 0	Minute 15	Minute 30	Minute 45	Minute 60	Minute 75
0	0.3615542	0.3728595	0.3914571	0.4295694	0.4837697	0.5760223
3	0.3608178	0.3729549	0.3938743	0.4318778	0.4853132	0.5815989

All predicted matches



Model	Minute 0	Minute 15	Minute 30	Minute 45	Minute 60	Minute 75
0	0.000 =000	0.0.0	0.000 -000	000-	0.1726362	0.=.0=000
3	0.0658623	0.0758537	0.0907471	0.1217557	0.1743915	0.2819345

```
load("~/GitHub/soccer-live-predictions/soccer-live-predictions/scrape/data/reds.RData")

matches = reds %>%
    filter(Season > 2015, Half == 1) %>%
    select(Season, Match)

HDA_reds = HDA %>%
    inner_join(matches)

## Joining, by = c("Season", "Match")

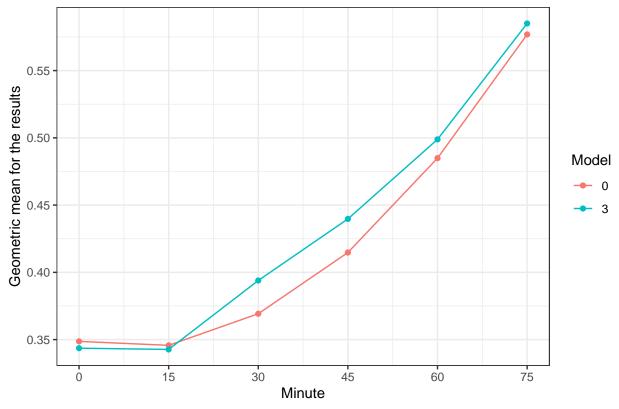
HDA_no_reds = HDA %>%
    anti_join(matches)
```

```
## Joining, by = c("Season", "Match")
```

```
nrow(HDA_reds)
```

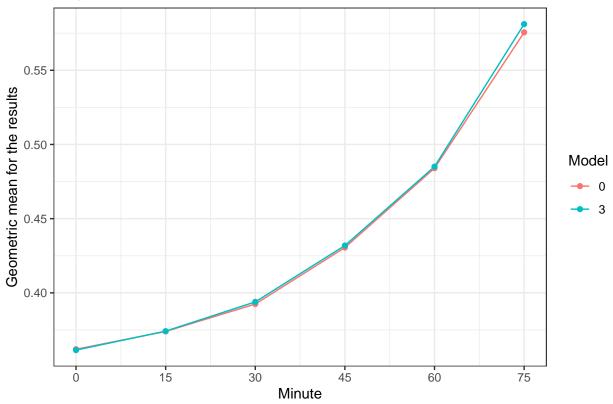
[1] 82

All predicted matches with a red card in the first half



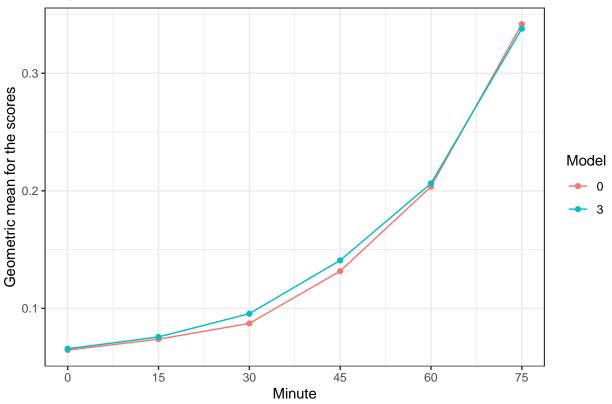
Model	Minute 0	Minute 15	Minute 30	Minute 45	Minute 60	Minute 75
0	0.3486645	0.3457368	0.3692382	0.4147450	0.4848982	0.5768597
3	0.3436144	0.3426827	0.3939457	0.4397161	0.4988566	0.5850398

All predicted matches with no red cards in the first half



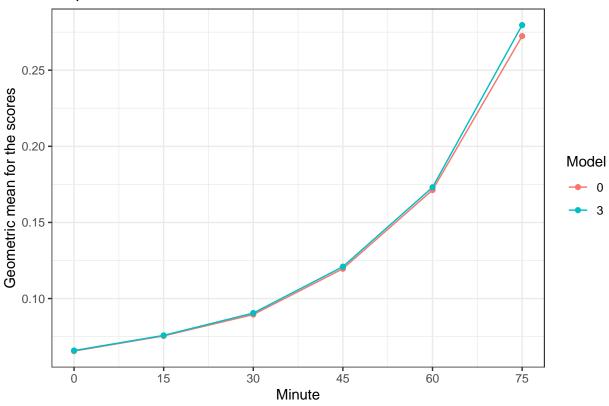
Model	Minute 0	Minute 15	Minute 30	Minute 45	Minute 60	Minute 75
0			0.3924370			0.5755491
3	0.3614173	0.3741974	0.3939049	0.4318678	0.4850609	0.5811073

All predicted matches with a red card in the first half



Model	Minute 0	Minute 15	Minute 30	Minute 45	Minute 60	Minute 75
0 3					$\begin{array}{c} 0.2036072 \\ 0.2063144 \end{array}$	

All predicted matches with no red cards in the first half



Model	Minute 0	Minute 15	Minute 30	Minute 45	Minute 60	Minute 75
0	0.0654788	0.0754585	0.0894830	0.1195775	0.1712945	0.2724196
3	0.0658462	0.0757965	0.0904839	0.1209245	0.1730690	0.2796281