# Package 'AdjCOXPH'

December 18, 2019

	December 16, 2017
Type Package	
<b>Title</b> A Novel Adjustmen with Long-term Sur	nt for Cox Proportional Hazards Model in Data rvival
Version 1.0.0	
<b>Depends</b> R (>= 3.5.0)	
Imports stats	
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_	Of hazard ratio and difference in Proportions in proportrough KM curves and Cox hazard ratio.
License GPL-2   GPL-3	
<b>Encoding</b> UTF-8	
LazyData true	
RoxygenNote 6.1.1	
R topics document adjustment	nted:
Index	3
adjustment	An adjustment for Cox hazard ratio and an estimation for difference in proportions.
Description	
A novel adjustment n	nethod for Cox proportional hazards model in data with long-term survival.
Usage	
adjustment(HR_cox m = NULL)	, HR_cox_CI, s1mix.chosen, s0mix.chosen, pi1.est, pi0.est,

2 adjustment

#### **Arguments**

HR\_cox Input. Hazard ratio obtained from Cox PH model.

HR\_cox\_CI Input. Confidence interval of the hazard ratio obtained from Cox PH model.

Input. Survival probabilities of Arm 1 estimated by KM at the chosen time.

Input. Survival probabilities of Arm 0 estimated by KM at the chosen time.

Input. Proportion of poor-responders (uncured proportion) in Arm 1.

Input. Proportion of poor-responders (uncured proportion) in Arm 0.

Input (Optional). The polynomial order used in Taylor approximation. The default value is NULL that means m is selected automatically.

### Value

HR\_cox Cox hazard ratio you inputed.

HR\_cox\_CI Confidence interval of the Cox hazard ratio you inputed.

HR\_adj Hazard ratio after adjustment.

HR\_adj\_CI Confidence interval of the after adjustment.

DP\_adj Difference in proportions of the true responders.

DP\_adj\_CI Confidence interval of the difference in proportions of the true responders.

### **Examples**

```
library(AdjCOXPH)
s1mix.chosen <- c(0.48,0.39,0.35,0.35)
s0mix.chosen <- c(0.36,0.28,0.26,0.25)
pi1.est <- 0.65; pi0.est <- 0.75
HR_cox <- 0.71; HR_cox_CI <- c(0.51, 0.91)
adjustment(HR_cox, HR_cox_CI, s1mix.chosen, s0mix.chosen, pi1.est, pi0.est)</pre>
```

# Index