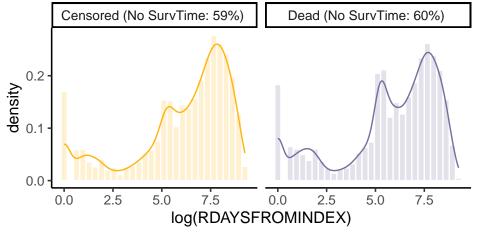
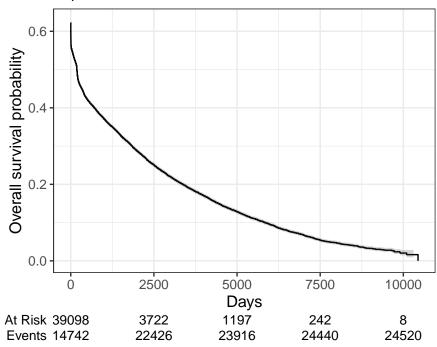
CS7

2023-04-10

```
### EDA
load("DataCleaned.RData")
data.subject <- data.impute %>% group by(RSUBJID) %>% filter(row number() == n()) %>%
  mutate(DEATH2 = ifelse(DEATH == 0, "Censored", "Dead")) %>%
  ungroup()
df.InstantDeath <- data.subject %>% group_by(DEATH2) %>%
  summarise(InstantDeath = mean(RDAYSFROMINDEX == 0)) %>%
  mutate(InstantDeath = str_c(round(InstantDeath*100, 0), "%"))
# Distribution of log-RDAYSFROMINDEX in the two groups
inner_join(data.subject, df.InstantDeath) %>%
  mutate(DEATH2 = str_c(DEATH2, " (No SurvTime: ", InstantDeath, ") ")) %>%
  ggplot() +
  geom_histogram(aes(log(RDAYSFROMINDEX), ..density.., fill = DEATH2),
                 color = "white", alpha = 0.2) +
  geom_density(aes(log(RDAYSFROMINDEX), color = DEATH2)) +
  scale_fill_manual(values = pal(2)) +
  scale_color_manual(values = pal(2)) +
  facet wrap(~DEATH2) +
  theme(legend.position = "none")
```



Kaplan-Meier estimates



HR	95% CI	p-value
1.01	1.01, 1.01	< 0.001
	_	
1.07	1.03, 1.12	< 0.001
	_	
0.94	0.91, 0.98	0.002
0.88	0.82, 0.94	< 0.001
1.37	1.31, 1.43	< 0.001
1.00	0.95, 1.05	> 0.9
1.67	1.56, 1.80	< 0.001
1.09	1.05, 1.12	< 0.001
1.07	1.06, 1.09	< 0.001
0.27	0.26, 0.29	< 0.001
0.88	0.84, 0.92	< 0.001
_		
0.63	0.60, 0.67	< 0.001
	1.01	1.01 1.01, 1.01 1.07 1.03, 1.12 0.94 0.91, 0.98 0.88 0.82, 0.94 1.37 1.31, 1.43 1.00 0.95, 1.05 1.67 1.56, 1.80 1.09 1.05, 1.12 1.07 1.06, 1.09 0.27 0.26, 0.29 0.88 0.84, 0.92

Characteristic	HR	95% CI	p-value
2	1.08	1.04, 1.13	< 0.001
DPPCI			
0			
1	0.38	,	< 0.001
2	0.85	0.78, 0.91	< 0.001
HXANGINA			
0			
1	0.77	0.74, 0.80	< 0.001
HXCEREB			
0	1.00	1.05 1.19	₄ 0,001
1	1.09	1.05, 1.13	< 0.001
HXCHF			
0	0.74	0.71, 0.78	< 0.001
HXCOPD	0.74	0.71, 0.76	<0.001
0			
1	1.16	1.11, 1.21	< 0.001
HXDIAB	1.10	1.11, 1.21	70.001
0			
1	1.13	1.10, 1.16	< 0.001
HXHTN		,	
0			
1	0.95	0.93, 0.98	0.002
HXHYL			
0	_		
1	0.68	0.66, 0.70	< 0.001
HXMI			
0			
1			
HXSMOKE			
0	1.00	0.00 1.05	0.0
1 MIMDDMI		0.99, 1.05 $0.93, 0.97$	
NUMPRMI DIASBP_R	$0.95 \\ 0.99$	0.95, 0.97 0.99, 0.99	
PULSE_R	1.00	1.00, 1.00	
SYSBP_R	1.00	1.00, 1.00	0.3
CBRUITS	1.00	1.00, 1.00	0.0
0			
1	1.13	1.09, 1.17	< 0.001
HEIGHT R	1.00	1.00, 1.00	0.8
S3		,	
0			
1	1.17	1.10, 1.23	< 0.001
$WEIGHT_R$	1.0	0.99, 1.00	< 0.001
CREATININE_R	1.01	1.01, 1.02	< 0.001
CATHAPPR			
0	_	_	
1	0.51	0.44, 0.60	< 0.001
2	0.99	0.89, 1.09	0.8
3	0.91	0.82, 1.01	0.070
DIAGCATH			
0	_	_	

Characteristic	HR	95% CI	p-value
1	1.14	1.04, 1.24	0.003
INTVCATH			
0			
1	0.61	0.55, 0.67	< 0.001
CORDOM			
1	_		
2	0.87	0.82, 0.92	< 0.001
3	0.95	0.87, 1.03	0.2
LADST	1.00	1.00, 1.00	< 0.001
LCXST	1.00	1.00, 1.00	< 0.001
LMST	1.00	1.00, 1.00	< 0.001
LVEF_R	0.99	0.99, 0.99	< 0.001
NUMDZV	0.86	0.83, 0.88	< 0.001
PRXLADST	1.00	1.00, 1.00	0.067
RCAST	1.00	1.00, 1.00	< 0.001
DAYS2LKA	1.00	1.00, 1.00	< 0.001
DSCABG	1.24	1.20, 1.28	< 0.001
DSMI	1.22	1.15, 1.30	< 0.001
DSPCI	1.19	1.08, 1.32	< 0.001
DSSTROKE	1.16	1.11, 1.21	< 0.001