

Supplemental material to:

Oral Mucositis in Adult Cancer Patients Undergoing Chemo-therapy: Six-Month On-Treatment Follow-Up

R code for Cox regression analysis

```
library("survival")
library("rms")

##### Cox regression #####
data6month <- read.csv("dataFile.csv")
data6month$TreatmentClass <- as.factor(data6month$TreatmentClass)
mod2.ulceration <- coxph(formula=Surv(Month,Lesions23) ~ protocolBin + age + sexM +
  I1initial + treatmentClass, data=data6month)

mod2.ulceration
summary(mod2.ulceration)

##### collinearity testing #####
cvif <- vif(mod2.ulceration)
cvif
```

Results

```
> summary(mod2.ulceration)
```

Call:

```
coxph(formula = Surv(Month, Lesions23) ~ protocolBin + age +
  sexM + I1initial + TreatmentClass, data = data6month)
```

n= 55, number of events= 25

	coef	exp(coef)	se(coef)	z	Pr(> z)
protocolBin	-1.874e+00	1.535e-01	5.843e-01	-3.207	0.00134 **
age	-3.194e-02	9.686e-01	2.292e-02	-1.393	0.16348
sexM	-5.006e-01	6.062e-01	6.657e-01	-0.752	0.45207
I1initial	-3.810e-01	6.832e-01	3.148e-01	-1.210	0.22617
TreatmentClass2	-4.393e-01	6.445e-01	8.811e-01	-0.499	0.61807
TreatmentClass3	2.226e-01	1.249e+00	6.215e-01	0.358	0.72027
TreatmentClass4	2.793e-01	1.322e+00	6.491e-01	0.430	0.66699
TreatmentClass5	3.127e-01	1.367e+00	1.298e+00	0.241	0.80960
TreatmentClass6	1.581e+00	4.859e+00	1.190e+00	1.328	0.18414
TreatmentClass7	-1.532e+01	2.218e-07	4.589e+03	-0.003	0.99734

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

	exp(coef)	exp(-coef)	lower .95	upper .95
protocolBin	1.535e-01	6.514e+00	0.04884	0.4825
age	9.686e-01	1.032e+00	0.92601	1.0131
sexM	6.062e-01	1.650e+00	0.16442	2.2348
I1initial	6.832e-01	1.464e+00	0.36862	1.2662
TreatmentClass2	6.445e-01	1.552e+00	0.11461	3.6242
TreatmentClass3	1.249e+00	8.005e-01	0.36953	4.2233
TreatmentClass4	1.322e+00	7.563e-01	0.37050	4.7184
TreatmentClass5	1.367e+00	7.315e-01	0.10743	17.3964
TreatmentClass6	4.859e+00	2.058e-01	0.47139	50.0868
TreatmentClass7	2.218e-07	4.508e+06	0.00000	Inf

Concordance= 0.708 (se = 0.054)

Likelihood ratio test= 13.82 on 10 df, p=0.2

wald test = 12.94 on 10 df, p=0.2

Score (logrank) test = 15.04 on 10 df, p=0.1

```
> cvif
```

	protocolBin	age	sexM	I1initial	TreatmentClass2
	2.087631	1.890322	2.230875	1.620932	1.419841
	TreatmentClass3	TreatmentClass4	TreatmentClass5	TreatmentClass6	TreatmentClass7
	2.096189	2.286396	1.616210	1.322350	1.000000