```stata
version 13.1

	* /*redacted*/ Analyses for presentation
	* Saurabh Chavan
	* May 13, 2018


	* read in /*redacted*/

	gen age=2018-birthyear if deathdate==.
	replace age=yofd(deathdate)-birthyear if deathdate!=.
	tab presentsex, m
	tab transgendered,m

	gen count = 0
	replace count = 1 if deathdate!=.
	su count, de
	summarize age if count==1, detail
	summarize age if count==0, detail
	drop count
	* mean*100 is percent dead
	tab deathdatesource,m

	* read in /*redacted*/

	clear

	* initial visits

	histogram yoiv, freq addl addlabopts(mlabsize(vsmall) mlabangle(45) mlabgap(2))
ylabel(0(50)400)  xtitle("Distribution of enrollment visits by year of enrollment") ytitle
("Number of initial visits") xlabel(2000(1)2017) note("Data are truncated for 2017")


	* CD4

	histogram entryCD4 if entryCD4<2001, freq addl addlabopts(mlabsize(vsmall)
mlabangle(45) mlabgap(2)) normal width(50) ylabel(0(50)400)  xtitle("CD4 count at
enrollment +/- one month")

	histogram entryCD4 if entryCD4<2001,freq ylabel(0(50)400) xlabel(0(250)2000)
xtitle("CD4 count in cells/mm3 at enrollment +/- one month") note("Data truncated at 2000
cells/mm3")
	su entryCD4, de


	* VL

		histogram entryVL if entryVL<100000, percent  kdensity  width(500)  xlabel
(0(5000)100000) ylabel(0(5)45) xtitle("Viral load in copies/mL at enrollment +/- one
month") note("Data truncated at 100000 copies/mL")

		gen yoiv=yofd(initialvisit)
		scatter entryVL  yoiv if entryVL<1000000


		histogram yoiv , freq

		* loss to follow up

		stset obstimeLTFU, id(sitepatientid) failure(LTFU) scale(365.25)
```

```stata
55                                          sts graph, survival xtitle("Analysis time in years")
xlabel(0(1)20) xmtick(0(0.5)17) ylabel(0(0.2)1) ymtick(0(0.05)1) title("KM estimate of
time to first Loss To Follow Up (no PC visit for 12 months after last kept PC visit)") ci
riskt(0(5)20)
56
57                                          sts gen KM = s
58      gen Complement = 1- KM
59      twoway line Complement obstimeLTFU
60      stset, clear
61
62
63              * time to ART
64
65              stset obstimeART, id(sitepatientid) failure(ART) scale(365.25)
66
67                                  sts graph, survival xtitle("Analysis time in years")
xlabel(0(1)20) xmtick(0(0.5)17) ylabel(0(0.2)1) ymtick(0(0.05)1) title("KM estimate of
time to first ART after enrollment") ci riskt(0(5)20)
68                                  sts graph, survival xtitle("Analysis time in years")
xlabel(0(1)20) xmtick(0(0.5)17) ylabel(0(0.2)1) ymtick(0(0.05)1) title("KM estimate of
time to first ART after enrollment") ci riskt(0(5)20)  by(priorART)
69
70
71                                  sts graph, failure xtitle("Analysis time in years") xlabel
(0(1)18) xmtick(0(0.5)18) ylabel(0(0.2)1) ymtick(0(0.05)1) title("KM estimate of time to
first ART after enrollment") ci riskt(0(2)18)
72                                  sts graph, failure xtitle("Analysis time in years") xlabel
(0(1)18) xmtick(0(0.5)18) ylabel(0(0.2)1) ymtick(0(0.05)1) title("KM estimate of time to
first ART after enrollment") ci riskt(0(2)18)   by(priorART)
73
74              stset, clear
75
76              * CI of death
77
78      egen eventdatedeath = rowmin(deathdate firstltfudate dbclosedate)
79      format eventdatedeath %tdCY-N-D
80      gen obstimedeath=eventdatedeath-initialvisit
81      gen DEATH=1 if deathdate!=.
82      replace DEATH=0 if DEATH==.
83
84          stset obstimedeath, id(sitepatientid) failure(DEATH) scale(365.25)
85
86                                  sts graph, failure xtitle("Analysis time in
years") xlabel(0(1)18) xmtick(0(0.5)18) ylabel(0(0.2)1) ymtick(0(0.05)1) title("KM
estimate of time to first ART after enrollment") ci riskt(0(2)18)
87
88
89              * censoring
90
91          gen eventdeath = 0 if eventddeath == dbclosedate
92          replace eventdeath = 1 if eventddeath == deathdate
93          replace eventdeath = 2 if eventd == firstltfudate
94
95
96
97      stset  obstimedeath, id(sitepatientid) failure(eventdeath==1) scale(365.25)
98              stcompet CI=ci Hi=hi Lo=lo, compet1(3)
99              stcompet CumInc = ci SError = se, compet1(3)
100             gen CumInc1 = CumInc if eventdeath==2
101
102
103         * hospitalisation
```

```
              egen eventdateHOSP=rowmin(admitdate deathdate firstltfudate dbclosedate)
              format eventdateHOSP %tdCY-N-D
    gen obstimeHOSP=eventdateHOSP-initialvisit
    tab obstimeHOSP,m
    replace obstimeHOSP = 0 if obstimeHOSP<0
    gen HOSP=1 if admitdate!=.
    replace HOSP=0 if HOSP==.

    stset obstimeHOSP, id(sitepatientid)  fail(HOSP) scale(365.25)

    sts graph, failure xtitle("Analysis time in years") xlabel(0(1)18) xmtick(0(0.5)18)
ylabel(0(0.2)1) ymtick(0(0.05)1) title("KM estimate of time to first hospitalisation
after enrollment") ci riskt(0(2)18)


              ** LE FIN **
              * END OF CODE *
```