

```

capture log close

log using "C:\usr\rino\projects\ovarian_new\results\paper1.doc",
text replace
set graphics off
set more off
version 9.0
clear
/*
*****
Name of file: paper1_1.do
Purpose      : New Tables for Paper 1

Date:        29 August    2006
Authors:     Rino
Subject:     Table I, Table II, Table III, Table IV

*****
*
*/

use "c:\usr\rino\projects\ovarian_new\data\merged\ovarian_1", clear
keep if malig==2

stset eof6, origin (time diagdat) id(lopnr) time0(diagdat) scale
(365.25) failure(fail6)

/*
Analysis for Results section before
Paragraph: USE of HRT before epithelial ovarian cancer diagnosis
*/

/* Lisa here the results provided by Chantal are not clear to me at
all,
she does not state whether these estimates are age adjusted, or
whatever. Also,
let's first report the estimates in the table and then we can report
some others
which we decided non to report in the table. Let's not jump between
table Ii) and
not reported, as we are done. SHE talks about risk, but actuall we
estimates rates
with COX regression. Then of course Survial is a probability, but
let's be clear
and precise.

*/

gen zage=diagage-62.21
replace hist_0=6 if hist_0==5 | hist_0==4

/* Reason for diagnosis */
tab q3, mis
stsum, by(q3)
char q3[omit] 2
sts list, at( 0 5 ) compare by(q3)

xi: stcox i.q3 diagage , nolog
xi: stcox i.figo_cat diagage , nolog
char who[omit] 1

```

```
/* We cannot move the reference category, but what you can do is just
to report 1/HR */
```

```
tab who, mis
xi: stcox i.who diagage , nolog
```

```
/* who */
/* We want to change the way we report the who effect, adjusted by
age, we say:
women with high and medium diff tumors had a better survival
*/
```

```
tab residual1
xi: stcox i.resid diagage , nolog
```

```
/*
Question about P value (why 0.20). First of all it is 0.25, what
usually is
recommended. So change 0.20 to 0.25. Reference : Bendel, R.B., and
Afifi, A.A. (1977).
Comparison of stopping rules in forward regression. Journal Of the
American
Statistical Association, 72, 46-53.
*/
```

```
/* Graphs */
```

```
sts graph, by(hrtanynew) xtitle("Years from diagnosis of ovarian
cancer") ///
ytitle("Survival") legend(pos(8) ///
ring(0) col(1) label(2 "Users") label (1 "Never users") ) ///
clpattern(-. 1) ///
title("Cause specific survival - Use of HRT ")
```

```
gen chantalhrt=.
replace chantalhrt=1 if eotr_only_pure==1
replace chantalhrt=2 if eptr==1
replace chantalhrt=0 if hrtanynew==0
```

```
label define chantalhrt 0"No HRT" 1"ERT" 2"E + P Combined excl.",
nofix
label val chantalhrt chantalhrt
```

```
label variable chantalhrt "Type of Therapy of Exclusive Users"
```

```
sts graph, by(chantalhrt) xtitle("Years from diagnosis of ovarian
cancer") ///
ytitle("Survival") legend(pos(8) ///
ring(0) col(1) label(3 "Estrogens & progestins combined") label(2
"ERT") label(1 "Never users")) ///
title("Cause specific survival - Type of HRT for exclusive users")
clpattern(-. 1 -)
```

```
sts graph, by(eedu_cat) xtitle("Years from diagnosis of ovarian
cancer") ///
ytitle("Survival") legend(pos(8) ///
```

```

ring(0) col(1) label(3 "> 3 years") label (2 "<= 3 years") label(1
"Never users" ) ) ///
title("Cause specific survival - HRT overall duration of use")
clpattern(-. 1 -)

tab hrt_afterdx fail6, row mis
stsum, by(hrt_afterdx)
sts graph, by(hrt_afterdx) xtitle("Years from diagnosis of ovarian
cancer") ///
ytitle("Survival") legend(pos(8) ///
ring(0) col(1) label(3 "Not stated") label (2 "Users") label(1 "Never
users" ) ) ///
title("Cause specific survival - HRT after diagnosis ") clpattern(-.
1 -)

stsum, by(hrt_afterdx_missno)
sts graph, by(hrt_afterdx_missno ) xtitle("Years from diagnosis of
ovarian cancer") ///
ytitle("Survival") legend(pos(8) ///
ring(0) col(1) label (2 "Users") label(1 "Never users" ) ) ///
title("Cause specific survival - HRT after diagnosis ") clpattern(-.
1 -)

tab figo_cat hrt_afterdx , col
tab who hrt_afterdx , col
tab hrtanynew hrt_afterdx , col
tab hist_0 hrt_afterdx, row
tab diagage_cat hrt_afterdx, row

/* use of HRT before * after diagnosis */

tab hrt_aftergrps_missno fail6, row mis
sts graph, by(hrt_aftergrps_missno) xtitle("Years from diagnosis of
ovarian cancer") ///
l2("Survival") legend(pos(8) ///
ring(0) col(1) label(4 "before & after") label (3 "no before & after
") label(2 " before & no after" ) label(1 "never users" ) ) ///
title("Cause specific survival - Use of HRT before and After
diagnosis ", tstyle(small)) clpattern(-. 1 longdash - )

graph export "C:\usr\rino\projects\ovarian_new\paper\paper_1
\figure1.eps", as(eps) preview(off) replace mag(100)

/* Question on Residual Disease is below */

/* Table I */

tab diagage_cat fail6, row mis
stsum, by (diagage_cat)
sts list, at( 0 5 ) compare by(diagage_cat)

tab hrtanynew fail6, row mis
stsum, by (hrtanynew)
stsum if hrtanynew==.

```

```

sts list, at( 0 5 ) compare by(hrtanynew)

tab hist_0 fail6, row mis
stsum, by(hist_0)
stsum if hist_0==.
sts list, at( 0 5 ) compare by(hist_0)

tab figo_cat fail6, row mis
stsum, by(figo_cat)
sts list, at( 0 5 ) compare by(figo_cat)

tab who fail6, mis row
stsum, by(who)
sts list, at( 0 5 ) compare by(who)

tab resid fail6, mis row
stsum, by(residual1)
sts list, at( 0 5 ) compare by(resid)

/* Table II */

tab hrtanynew fail6, row
gen zage=diagage-62.21
stsum, by( hrtanynew)
stcox hrtanynew diagage
/*
To Lisa: The next command gives us teh estimate of S(t) ,
proportion surviving at 0 and 5 years, in
each level of the startifying variable
*/
sts list, at (0 5) by(hrtanynew) adjustfor(zage)

tab eotr_only_pure fail6, row
xi: stcox i.eotr_only_pure diagage
sts list, at (0 5) by(eotr_only_pure) adjustfor(zage)

tab ep_cytr_only_pure fail6, row
xi: stcox i.ep_cytr_only_pure diagage
sts list, at (0 5) by(ep_cytr_only_pure) adjustfor(zage)

tab ep_cttr_only_pure fail6, row
xi: stcox i.ep_cttr_only_pure diagage
sts list, at (0 5) by(ep_cttr_only_pure) adjustfor(zage)

tab eptr fail6, row
xi: stcox i.eptr diagage
sts list, at (0 5) by(eptr) adjustfor(zage)

tab eedu_cat fail6, row
xi: stcox i.eedu_cat diagage
sts list, at (0 5) by(eedu_cat) adjustfor(zage)

tab eodu_cat fail6, row
xi: stcox i.eodu_cat diagage
sts list, at (0 5) by(eodu_cat) adjustfor(zage)

```

```

tab epcydu_cat fail6, row
xi: stcox i.epcydu_cat diagage
sts list, at (0 5) by(epcydu_cat) adjustfor(zage)

tab epctdu_cat fail6, row
xi: stcox i.epctdu_cat diagage
sts list, at (0 5) by(epctdu_cat) adjustfor(zage)

tab epdu_cat fail6, row
xi: stcox i.epdu_cat diagage
sts list, at (0 5) by(epdu_cat) adjustfor(zage)

tab eere_cat fail6, row
xi: stcox i.eere_cat diagage
sts list, at (0 5) by(eere_cat) adjustfor(zage)

tab eere_cat fail6 if hist==2, row

tab eore_cat fail6, row
xi: stcox i.eore_cat diagage
sts list, at (0 5) by(eore_cat) adjustfor(zage)

tab epcyre_cat fail6, row
xi: stcox i.epcyre_cat diagage
sts list, at (0 5) by(epcyre_cat) adjustfor(zage)

tab epctre_cat fail6, row
xi: stcox i.epctre_cat diagage
sts list, at (0 5) by(epctre_cat) adjustfor(zage)

tab epre_cat fail6, row
xi: stcox i.epre_cat diagage
sts list, at (0 5) by(epre_cat) adjustfor(zage)

tab hrt_rd fail6, row
xi: stcox i.hrt_rd diagage
sts list, at (0 5) by(hrt_rd) adjustfor(zage)

/* Table III */

/* Columns I */

tab hrtanynew fail6, row
capture drop rnew* rsnew*
xi: stcox i.hrtanynew diagage , nolog schoen(rnew*) scaledsch
(rsnew*)
* stphtest, rank detail

xi: stcox hrtanynew diagage i.figo_cat i.who , nolog
xi: stcox hrtanynew diagage i.figo_cat i.who i.hist_0 , nolog
xi: stcox hrtanynew hrt_afterdx_missno diagage i.figo_cat i.who
i.hist_0 , nolog

tab hrtanynew fail6 if hist==1, row
xi: stcox i.hrtanynew diagage if hist==1, nolog
xi: stcox hrtanynew diagage i.figo_cat i.who if hist==1 , nolog
xi: stcox hrtanynew hrt_afterdx_missno diagage i.figo_cat i.who if

```

hist==1 , nolog

```
tab hrtanynew fail6 if hist==2, row
xi: stcox i.hrtanynew diagage if hist==2, nolog
xi: stcox hrtanynew diagage i.figo_cat i.who if hist==2 , nolog
xi: stcox hrtanynew hrt_afterdx_missno diagage i.figo_cat i.who if
hist==2 , nolog
```

```
tab hrtanynew fail6 if hist==3, row
xi: stcox i.hrtanynew diagage if hist==3, nolog
xi: stcox hrtanynew diagage i.figo_cat i.who if hist==3 , nolog
xi: stcox hrtanynew hrt_afterdx_missno diagage i.figo_cat i.who if
hist==3 , nolog
```

```
tab hrtanynew fail6 if hist==6, row
xi: stcox i.hrtanynew diagage if hist==6, nolog
xi: stcox hrtanynew diagage i.figo_cat i.who if hist==6 , nolog
xi: stcox hrtanynew hrt_afterdx_missno diagage i.figo_cat i.who if
hist==6 , nolog
```

```
tab eedu_cat fail6 , row
xi: stcox i.eedu_cat diagage , nolog
xi: stcox i.eedu_cat diagage i.figo_cat i.who , nolog
xi: stcox i.eedu_cat diagage i.figo_cat i.who i.hist_0 , nolog
xi: stcox i.eedu_cat hrt_afterdx_missno diagage i.figo_cat i.who
i.hist_0 , nolog
```

```
tab eedu_cat fail6 if hist==1 , row
xi: stcox i.eedu_cat diagage if hist==1, nolog
xi: stcox i.eedu_cat diagage i.figo_cat i.who if hist==1 , nolog
xi: stcox i.eedu_cat hrt_afterdx_missno diagage i.figo_cat i.who if
hist==1 , nolog
```

```
tab eedu_cat fail6 if hist==2 , row
xi: stcox i.eedu_cat diagage if hist==2, nolog
xi: stcox i.eedu_cat diagage i.figo_cat i.who if hist==2 , nolog
xi: stcox i.eedu_cat hrt_afterdx_missno diagage i.figo_cat i.who if
hist==2 , nolog
```

```
tab eedu_cat fail6 if hist==3 , row
xi: stcox i.eedu_cat diagage if hist==3, nolog
xi: stcox i.eedu_cat diagage i.figo_cat i.who if hist==3 , nolog
xi: stcox i.eedu_cat hrt_afterdx_missno diagage i.figo_cat i.who if
hist==3 , nolog
```

```
tab eedu_cat fail6 if hist==6 , row
xi: stcox i.eedu_cat diagage if hist==6, nolog
xi: stcox i.eedu_cat diagage i.figo_cat i.who if hist==6 , nolog
xi: stcox i.eedu_cat diagage i.figo_cat i.who if hist==6 , nolog
xi: stcox i.eedu_cat hrt_afterdx_missno diagage i.figo_cat i.who if
hist==6 , nolog
```

```

tab eere_cat fail6 , row
xi: stcox i.eere_cat diagage , nolog
xi: stcox i.eere_cat diagage i.figo_cat i.who , nolog
xi: stcox i.eere_cat diagage i.figo_cat i.who i.hist_0 , nolog
xi: stcox i.eere_cat diagage i.figo_cat i.who i.hist_0 , nolog

tab eere_cat fail6 if hist==1 , row
xi: stcox i.eere_cat diagage if hist==1, nolog
xi: stcox i.eere_cat diagage i.figo_cat i.who if hist==1 , nolog
xi: stcox i.eere_cat hrt_afterdx_missno diagage i.figo_cat i.who if
hist==1 , nolog

tab eere_cat fail6 if hist==2 , row
xi: stcox i.eere_cat diagage if hist==2, nolog
xi: stcox i.eere_cat diagage i.figo_cat i.who if hist==2 , nolog
xi: stcox i.eere_cat hrt_afterdx_missno diagage i.figo_cat i.who if
hist==2 , nolog

tab eere_cat fail6 if hist==3 , row
xi: stcox i.eere_cat diagage if hist==3, nolog
xi: stcox i.eere_cat diagage i.figo_cat i.who if hist==3 , nolog
xi: stcox i.eere_cat hrt_afterdx_missno diagage i.figo_cat i.who if
hist==3 , nolog

tab eere_cat fail6 if hist==6 , row
xi: stcox i.eere_cat diagage if hist==6, nolog
xi: stcox i.eere_cat diagage i.figo_cat i.who if hist==6 , nolog
xi: stcox i.eere_cat hrt_afterdx_missno diagage i.figo_cat i.who if
hist==6 , nolog

tab hrt_rd fail6 , row
xi: stcox i.hrt_rd diagage , nolog
xi: stcox i.hrt_rd diagage i.figo_cat i.who , nolog
xi: stcox i.hrt_rd hrt_afterdx_missno diagage i.figo_cat i.who
i.hist_0 , nolog

tab hrt_rd fail6 if hist==1, row
xi: stcox i.hrt_rd diagage if hist==1 , nolog
xi: stcox i.hrt_rd diagage i.figo_cat i.who if hist==1 , nolog
xi: stcox i.hrt_rd hrt_afterdx_missno diagage i.figo_cat i.who if
hist==1 , nolog

/* Column 2 */

xi: stcox i.hrtanynew diagage , nolog
xi: stcox i.hrtanynew diagage if hist==1, nolog
xi: stcox i.hrtanynew diagage if hist==2, nolog
xi: stcox i.hrtanynew diagage if hist==3, nolog
xi: stcox i.hrtanynew diagage if hist==6, nolog

xi: stcox i.eedu_cat diagage , nolog

```

```

xi: stcox i.eedu_cat diagage if hist==1, nolog
xi: stcox i.eedu_cat diagage if hist==2, nolog
xi: stcox i.eedu_cat diagage if hist==3, nolog
xi: stcox i.eedu_cat diagage if hist==6, nolog

xi: stcox i.eedu_cat hrt_afterdx_missno diagage , nolog
xi: stcox i.eedu_cat hrt_afterdx_missno diagage if hist==1, nolog
xi: stcox i.eedu_cat hrt_afterdx_missno diagage if hist==2, nolog
xi: stcox i.eedu_cat hrt_afterdx_missno diagage if hist==3, nolog
xi: stcox i.eedu_cat hrt_afterdx_missno diagage if hist==6, nolog

xi: stcox i.eere_cat diagage , nolog
xi: stcox i.eere_cat diagage if hist==1, nolog
xi: stcox i.eere_cat diagage if hist==2, nolog
xi: stcox i.eere_cat diagage if hist==3, nolog
xi: stcox i.eere_cat diagage if hist==6, nolog

xi: stcox i.eere_cat hrt_afterdx_missno diagage , nolog
xi: stcox i.eere_cat hrt_afterdx_missno diagage if hist==1, nolog
xi: stcox i.eere_cat hrt_afterdx_missno diagage if hist==2, nolog
xi: stcox i.eere_cat hrt_afterdx_missno diagage if hist==3, nolog
xi: stcox i.eere_cat hrt_afterdx_missno diagage if hist==6, nolog

xi: stcox i.hrt_rd diagage , nolog
xi: stcox i.hrt_rd diagage if hist==1, nolog

xi: stcox i.hrt_rd hrt_afterdx_missno diagage , nolog
xi: stcox i.hrt_rd hrt_afterdx_missno diagage if hist==1, nolog

/* Table 4 */

tab hrt_afterdx_missno fail6, row
xi: stcox i.hrt_afterdx_missno diagage , nolog
xi: stcox i.hrt_afterdx_missno diagage i.figo_cat i.who , nolog
xi: stcox i.hrt_afterdx_missno diagage i.figo_cat i.who i.hist, nolog

tab hrt_afterdx_missno fail6 if hist==1, row
tab hrt_aftergrps_missno fail6 if hist==1, row
xi: stcox i.hrt_aftergrps_missno diagage if hist==1, nolog
xi: stcox i.hrt_aftergrps_missno diagage i.figo_cat i.who if hist==1
, nolog

tab hrt_afterdx_missno fail6 if hist==2, row
tab hrt_aftergrps_missno fail6 if hist==2, row
xi: stcox i.hrt_aftergrps_missno diagage if hist==2, nolog
xi: stcox i.hrt_aftergrps_missno diagage i.figo_cat i.who if hist==2
, nolog

tab hrt_afterdx_missno fail6 if hist==3, row
tab hrt_aftergrps_missno fail6 if hist==3, row
xi: stcox i.hrt_aftergrps_missno diagage if hist==3, nolog
xi: stcox i.hrt_aftergrps_missno diagage i.figo_cat i.who if hist==3

```



```
, nolog
```

```
tab hrt_afterdx_missno fail6 if hist==6, row
tab hrt_aftergrps_missno fail6 if hist==6, row
xi: stcox i.hrt_aftergrps_missno diagage if hist==6, nolog
xi: stcox i.hrt_aftergrps_missno diagage i.figo_cat i.who if hist==6
, nolog
```

```
tab hrtafterdu_cat_missno fail6, row
xi: stcox i.hrtafterdu_cat_missno diagage , nolog
xi: stcox i.hrtafterdu_cat_missno diagage i.figo_cat i.who , nolog
xi: stcox i.hrtafterdu_cat_missno diagage i.figo_cat i.who i.hist_0
, nolog
xi: stcox i.hrtafterdu_cat_missno diagage i.figo_cat i.who, strata
(hist_0) nolog
```

```
tab hrtnow fail6, row
gen hrtnow_1=hrtnow
replace hrtnow_1=. if hrtnow==0 & hrt_afterdx_missno==2
tab hrtnow_1 fail6, row
xi: stcox hrtnow_1 diagage , nolog
xi: stcox hrtnow_1 diagage i.figo_cat i.who , nolog
xi: stcox hrtnow_1 diagage i.figo_cat i.who i.hist_0 , nolog
```

```
/* hrt After Diagnosis , NON STATED = No */
```

```
tab hrt_afterdx_missno fail6, row
stsum, by(hrt_afterdx_missno)
sts list, at (0 5) by(hrt_afterdx_missno) adjustfor(zage)
xi: stcox i.hrt_afterdx_missno diagage, nolog
xi: stcox i.hrt_afterdx_missno diagage i.figo_cat i.who i.hist, nolog
```

```
log close
```