```
1
 2
     version 13.1
 3
 4
         log using /*redacted*/ , append smcl name(DataReviewNovember2017)
 6
 7
 8
 9
         capture
13
14
15
17
18
19
20
21
23
24
28
29
30
31
             tab recordtype,m
34
         capture
38
39
40
41
42
             sort sitepatientid
43
44
45
             tab presentsex birthsex, m row col
46
             tab transgender,m
47
             table presentsex birthsex, by(transgendered)
48
             gen checkgender=1 if presentsex==birthsex & transgendered=="Yes" & presentsex!=""
49
50
             tab checkgender, m
             drop checkgender
54
             tab deathdate if deathdate<(date("04-01-2000","MDY")) & deathdate>(date(
      '10-31-2017","MDY")),m
             count if deathdate!=.
58
             tab deathdatesource deathdateprecision ,m
```

```
gen deathyear=yofd(deathdate)
60
              tab deathdatesource, m
62
              tab2xl deathyear using /*redacted*/, col(1) row(1) replace
              histogram deathyear
64
              tab deathyear, plot
              tab2xl birthyear using /*redacted*/, col(1) row(1) replace
68
              tab birthyear, m
              gen age=2017-birthyear if deathdate==.
69
70
              replace age=deathyear-birthyear if deathdate!=.
 71
              tab2xl age using /*redacted*/, col(1) row(1) replace
              summarize age, detail
              histogram age, normal
 74
                 race/ethnicity
 76
              tab race hispanic, m row col
              list sitepatientid if race=="" & hispanic==""
78
79
          preserve
80
              keep if race=="" & hispanic==""
81
              destring sitepatientid, replace force
82
              merge 1:1 sitepatientid using /*redacted*/
84
              keep if _merge==3
85
              keep mrn sitepatientid pat_lname pat_fname lastname firstname dob ssn newpatient
              export excel using /*redacted*/, sheet("missingracehisp") firstrow(var) replace
87
          restore
88
89
              tab birthcountry, m
              drop age deathyear
91
92
93
94
95
97
          use /*redacted*/,clear
99
              sort sitepatientid siterecordid
              tab datasource.m
              tab diagnosisdateprecision, m
104
              codebook sitepatientid
              duplicates tag sitepatientid diagnosisname diagnosisdate, gen(dupdx)
              tab dupdx,m
110
111
          preserve
              keep if dupdx>0
              gsort -dupdx sitepatientid diagnosisdate diagnosisname
114
          capture: export excel using /*redacted*/, sheet("duplicatedx") firstrow(var)
      sheetmodify
116
          drop dupdx
118
          preserve
119
```

```
gen dxproblemdate="checkfulldate" if diagnosisdateprecision=="unknown"
diagnosisdate!=date("01/01/1900","MDY")
T Z Ø
121
              replace dxproblemdate="checkmonth" if diagnosisdateprecision=="year" & month(
      diagnosisdate)!=1
124
              replace dxproblemdate="checkday" if diagnosisdateprecision=="year" & day(
      diagnosisdate)!=1
          * this will mark something like 01/04/2011 or 04/04/2011 since year precision is only
      01/01/someyear and nothing else
128
129
              replace dxproblemdate="checkdaymonth" if diagnosisdateprecision=="year" & day(
      diagnosisdate)!=1 & month(diagnosisdate)!=1
130
131
132
              replace dxproblemdate="checkday" if diagnosisdateprecision=="month" & day(
      diagnosisdate)!=1
              keep if dxproblemdate!=""
134
          capture: export excel using /*redacted*/, sheet("dxproblemdate") firstrow(var)
      sheetmodify
136
          save /*redacted*/, replace
137
138
139
              gen dxdateCR="01jananyyear" if diagnosisdateprecision=="year" & day(diagnosisdate
      ==1 & month(diagnosisdate)==1
140
141
              replace dxdateCR="01anymonanyyear" if diagnosisdateprecision=="month" & inlist(
142
      month(diagnosisdate),1,2,3,4,5,6,7,8,9,10,11,12) & day(diagnosisdate)==1
143
          * this will mark something like sep/01/1990 to check if it is not underprecise (could
144
145
              replace dxdateCR="01anymonanyyear" if diagnosisdateprecision=="day" & inlist(month
      (diagnosisdate),1,2,3,4,5,6,7,8,9,10,11,12) & day(diagnosisdate)==1
146
147
148
              keep if dxdateCR!=""
149
              sort sitepatientid diagnosisdate diagnosisname
150
          capture: export excel using /*redacted*/, sheet("dxdatechartreview") firstrow(var)
      sheetmodify
151
153
          preserve
154
              merge m:1 sitepatientid using /*redacted*/
              drop if _merge==2
              drop _merge
158
159
              gen dxafterlastvisit=1 if encounterdate<diagnosisdate & diagnosisdateprecision==
      'day" & yofd(encounterdate)<2016
161
```

```
TUJ
164
              tab dxafterlastvisit,m
              sort dxafterlastvisit sitepatientid diagnosisdate diagnosisname
              keep if dxafterlastvisit==1
              keep siterecordid sitepatientid diagnosisname diagnosisdate diagnosisdateprecision
168
      datasource historical encounterdate encountertype department encounterlocation
      dxafterlastvisit
169
              sort sitepatientid diagnosisdate diagnosisname encounterdate
170
          capture: export excel using /*redacted*/, sheet("dxafterlastvisit") firstrow(var)
      sheetmodify
172
173
          preserve
174
175
176
              merge m:1 sitepatientid using /*redacted*/
177
178
              keep if _merge==3
              drop _merge
179
180
              gen dataafterdeathdate=1 if (deathdate<diagnosisdate) & deathdate!=. &
      diagnosisdate!=. & diagnosisdateprecision=="day" & diagnosisdate!=date("01/01/1900","MDY")
181
               sort dataafterdeathdate
               tab dataafterdeathdate,m
183
          capture: export excel using /*redacted*/, firstrow(var) sheet("dxafterdeath")
      sheetmodify
184
185
              gen dxyear=yofd(diagnosisdate) if yofd(diagnosisdate)!=1900
187
              histogram dxyear
188
              tab dxyear, plot
189
              tab2xl dxyear using /*redacted*/, row(1) col(1)
190
              tab historical,m
194
195
197
198
199
200
              codebook sitepatientid
204
          preserve
              duplicates drop sitepatientid testdate, force
              sort sitepatientid testdate
208
              by sitepatientid: gen count=_N
210
211
              tab mutation, sort
213
214
              tab mutation if mutation=="NULL"
```

```
218
              sort testdate
219
              gen rank=_n
              list if rank==1
220
221
          restore, preserve
              gsort -testdate
223
              gen rank=_n
224
              list if rank==1
226
227
              bysort sitepatientid testdate: gen testcount=_N
228
              bysort sitepatientid testdate: gen testrank=_n
229
              by sitepatientid: gen testyear=yofd(testdate) if testcount==testrank
230
              tab2xl testyear using /*redacted*/, col(1) row(1) replace
              tab testyear, plot
234
238
239
240
241
242
243
244
245
247
248
              codebook sitepatientid
249
              codebook sitepatientid if zipcode=="ZZZZZZ"
250
251
              codebook sitepatientid if (real(zipcode)>94102 & real(zipcode)<94188) & real(</pre>
      zipcode)!=.
253
          preserve
254
              keep if (real(zipcode)>94102 & real(zipcode)<94188) & real(zipcode)!=.
              gen zip=real(zipcode)
              duplicates drop sitepatientid zip, force
258
259
              tab2xl zip using /*redacted*/, row(1) col(1) replace
260
264
268
269
270
              codebook sitepatientid
271
          preserve
273
              tab admitdateprecision, m
274
              tab dischargedateprecision, m
276
              sort sitepatientid admitdate
              gen checkdschdate=1 if dischargedate<admitdate</pre>
278
              tab checkdschdate.m
```

```
279
              drop checkdschdate
280
              gen longstay=">6mon" if ((dischargedate-admitdate)/30)>6
281
              tab longstay, m
              codebook sitepatientid if longstay!=""
283
284
              gen hospstay=(dischargedate-admitdate)
              gsort -hospstay
              gsort sitepatientid -hospstay
                                                longstay admitdate
288
              sort admitdate
              gen rank=_n
290
              egen firstadm=min(rank) if rank==1
291
              list sitepatientid siterecordid admitdate admitdateprecision dischargedate
      dischargedateprecision if firstadm==1
              gsort -admitdate
293
              replace rank=_n
294
              egen lastadm=min(rank) if rank==1
              list sitepatientid siterecordid admitdate admitdateprecision dischargedate
      dischargedateprecision if lastadm==1
              sort dischargedate
298
              replace rank=_n
299
              egen firstdsc=min(rank) if rank==1
300
              list sitepatientid siterecordid admitdate admitdateprecision dischargedate
      dischargedateprecision if firstdsc==1
              gsort -dischargedate
              replace rank=_n
              egen lastdsc=min(rank) if rank==1
304
              list sitepatientid siterecordid admitdate admitdateprecision dischargedate
      dischargedateprecision if lastdsc==1
              drop rank
              sort sitepatientid admitdate
308
              by sitepatientid: gen rank=_n
              summarize rank, detail
310
              summarize hospstay, detail
311
              gen admityear=yofd(admitdate)
313
              tab admityear, m plot
              tab2xl admityear using /*redacted*/, row(1) col(1) replace
314
              bysort admityear: gen count=_N
              duplicates drop admityear, force
              keep admityear count
318
319
320
321
              graph bar (sum) count, over(admityear)
324
328
329
330
334
```

```
338
339
340
              sort sitepatientid insurancestartdate insurancetype
341
342
              tab insurance, m
343
              tab insurancestartdateprecision insurancestopdateprecision, m
344
              table insurancestartdateprecision insurancestopdateprecision, m by(insurancetype)
348
349
350
354
358
359
360
              sort resultdate
361
              gen rank= n
              egen firstlab=min(rank) if resultdate!=date("01/01/1900","MDY")
              egen lastlab=max(rank)
364
              list if firstlab==rank | lastlab==rank
              drop firstlab lastlab rank
          preserve
368
              gen labproblemdate="checkfulldate" if resultdateprecision=="unknown" & resultdate
      !=date("01/01/1900","MDY")
              replace labproblemdate="checkmonth" if resultdateprecision=="year" & month(
371
      resultdate)!=1
      01/01/someyear and nothing else
373
374
              replace labproblemdate="checkday" if resultdateprecision=="year" & day(resultdate
      )!=1
          * this will mark something like 01/04/2011 or 04/04/2011 since year precision is only
      01/01/someyear and nothing else
              replace labproblemdate="checkdaymonth" if resultdateprecision=="year" & day(
      resultdate)!=1 & month(resultdate)!=1
378
          * this will remark 04/04/2011 from above since month precision is always
      somemonth/01/someyear and nothing else
379
              replace labproblemdate="checkday" if resultdateprecision=="month" & day(resultdate
      )!=1
              keep if labproblemdate!=""
              tab labproblemdate, m
              capture: export excel using /*redacted*/, sheet("labdatechartreview1") firstrow(
      var)
           sheetmodify
          restore, preserve
              gen resdateCR="01jananyyear" if resultdateprecision=="year" & day(resultdate)==1 &
      month(resultdate)==1
```

```
his will mark something like jan/01/2000 to check it it is not underprecise:
388
               replace resdateCR="01anymonanyyear" if resultdateprecision=="month" & inlist(month
      (resultdate),1,2,3,4,5,6,7,8,9,10,11,12) & day(resultdate)==1
389
          * this will mark something like sep/01/1990 to check if it is not underprecise (could
390
               replace resdateCR="01anymonanyyear" if resultdateprecision=="day" & inlist(month())
391
      resultdate),1,2,3,4,5,6,7,8,9,10,11,12) & day(resultdate)==1
          st this will mark something like sep/01/1990 to check if it is not overprecise (could
394
               keep if resdateCR!=""
               tab resdateCR.m
               capture: export excel using /*redacted*/, sheet("labdatechartreview2") firstrow(
      var) sheetmodify
          restore, preserve
398
399
400
               encode testname, gen(name)
402
               labelbook name
403
               tab name, m
404
               drop name
405
               codebook testname
406
               tab result if testname=="Height",m
407
               tab result if testname=="Weight",m
409
               tab result if testname=="CD4 cell absolute",m
410
411
               tab units,m
412
413
               egen minmax=concat(normalmin normalmax unit testname),punct(" ")
414
               table minmax, m
415
               drop minmax
               tab historical,m
416
417
          restore, preserve
418
               merge m:1 sitepatientid using /*redacted*/
419
               gen dataafterdeathdate=1 if (deathdate<dofc(resultdate)) & deathdate!=. &
      resultdate!=. & resultdateprecision=="day" & dofc(resultdate)!=date("01/01/1900","MDY")
420
               tab dataafterdeathdate _merge,m
421
          restore, preserve
422
423
424
425
               tab datasource resultdateprecision, m
               codebook resultdate if datasource=="Source unknown" & resultdateprecision=="time"
gen checksource=1 if datasource=="Source unknown" & resultdateprecision=="time"
426
427
428
               tab checksource, m
429
               keep if checksource!=.
430
               keep sitepatientid result resultdate testname
               capture: export excel using /*redacted*/, sheet("labsourceCR") firstrow(var)
431
      sheetmodify
432
          restore, preserve
433
               codebook sitepatientid if strmatch(testname,"*HIV*")==1
434
               codebook sitepatientid
435
436
```

```
437
438
              codebook sitepatientid if strmatch(testname,"*CD4 cell absolute*")==1
              codebook sitepatientid if strmatch(testname,"*HIV-1 RNA*")==1 | strmatch(testname,
439
       *HIV-1 Viral*")==1
440
441
              sort sitepatientid resultdate
442
          restore
443
444
          preserve
445
              keep if strmatch(testname,"*CD4 cell absolute*")==1
446
              destring result, replace force
447
              sort sitepatientid resultdate
448
              by sitepatientid: gen rank=_n
449
              keep if rank==1
450
              summarize result, detail
451
          restore, preserve
              keep if strmatch(testname,"*HIV-1 RNA*")==1 | strmatch(testname,"*HIV-1 Viral*")==1
452
              replace result = regexs(0) if regexm(result, "[0-9]*$") /*to remove < > = from
453
454
              destring result, replace force
455
              sort sitepatientid resultdate
456
              by sitepatientid: gen rank=_n
457
              keep if rank==1
458
              summarize result, detail
459
          restore
460
461
462
463
464
465
466
467
468
          use /*redacted*/, clear
469
          preserve
470
              duplicates tag sitepatientid startdate medicationname, gen (duplicatemeds)
471
              tab duplicatemeds, m
472
              sort sitepatientid startdate medicationname
473
              sort medicationname
474
              merge m:1 medicationname using /*redacted*/.dta
475
              drop if _merge==2
476
              destring sitepatientid, replace force
477
              sort sitepatientid startdate medicationname
478
              by sitepatientid startdate: gen artcount=1 if code=="ART"
479
              by sitepatientid startdate: egen maxart=sum(artcount) if startdate!=date(
       '01/01/1900","MDY") | startdate!=enddate
480
              tab maxart,m /* maximum number of ARTs prescribed */
481
              keep maxart sitepatientid medicationname startdate startdateprecision enddate
      enddateprecision
482
              gsort -maxart sitepatientid startdate medicationname
483
              keep if maxart!=.
484
          capture: export excel using /*redacted*/, sheet("maxART") firstrow(var)
                                                                                     sheetmodify
485
          restore
486
          preserve
487
              gen checkenddate=0
488
              replace checkenddate=1 if enddate < startdate & enddate!=date("01/01/1900","MDY")</pre>
      S enddateprecision=="day"
489
              tab checkenddate,m /*this will tag erroneous end dates that are earlier than
490
               foreach i in bcheckenddate {
              drop if `i'==0
491
402
                    citonationtid ctartdate
```

```
493
              save /*redacted*/, replace
494
                  capture: export excel using /*redacted*/, sheet("checkenddatemeds") firstrow(
      var) sheetmodify
495
              restore, preserve
496
497
498
          preserve
499
              gen sproblemdate="checkfulldate" if startdateprecision=="unknown" & startdate!=
      date("01/01/1900","MDY")
     * this will mark all non "01/01/1900" dates that have unknown precision (which it
              replace sproblemdate="checkmonth" if startdateprecision=="year" & month(startdate
      )!=1
504
              replace sproblemdate="checkday" if startdateprecision=="year" & day(startdate)!=1
       01/01/someyear and nothing else
508
              replace sproblemdate="checkdaymonth" if startdateprecision=="year" & day(startdate)
      )!=1 & month(startdate)!=1
          * this will remark 04/04/2011 from above since month precision is always
511
              replace sproblemdate="checkday" if startdateprecision=="month" & day(startdate)!=1
              tab sproblemdate,m
514
              sort startdate sitepatientid
                 foreach name in sproblemdate {
                drop if sproblemdate==""
                sort sproblemdate startdate sitepatientid
518
                 capture: export excel using /*redacted*/, sheet("problemprecisionstartmeds")
519
      firstrow(var) sheetmodify
520
521
523
          preserve
524
              gen sdateCR="01jananyyear" if startdateprecision=="year" & day(startdate)==1 &
      month(startdate)==1
526
      replace sdateCR="01anymonanyyear" if startdateprecision=="month" & inlist(month(startdate),1,2,3,4,5,6,7,8,9,10,11,12) & day(startdate)==1
528
              replace sdateCR="01anymonanyyear" if startdateprecision=="day" & inlist(month(
      startdate),1,2,3,4,5,6,7,8,9,10,11,12) & day(startdate)==1
              * this will mark something like sep/01/1990 to check if it is not overprecise
              tab sdateCR.m
534
              sort startdate sitepatientid
                 foreach name in sdateCR {
                         drop if sdateCR=="""
                         sort sdateCR startdate sitepatientid
           capture: export excel using /*redacted*/. sheet("medstartdateCR") firstrow(var)
```

```
sheetmodify
540
          restore, preserve
541
542
          restore
543
         preserve
544
              gen eproblemdate="checkfulldate" if enddateprecision=="unknown" & enddate!=date(
      '01/01/1900","MDY")
547
              replace eproblemdate="checkmonth" if enddateprecision=="year" & month(enddate)!=1
548
549
      01/01/someyear and nothing else
550
              replace eproblemdate="checkday" if enddateprecision=="year" & day(enddate)!=1
551
          * this will mark something like 01/04/2011 or 04/04/2011 since year precision is only
      01/01/someyear and nothing else
554
              replace eproblemdate="checkdaymonth" if enddateprecision=="year" & day(enddate)!=1
       & month(enddate)!=1
          * this will remark 04/04/2011 from above since month precision is always
      somemonth/01/someyear and nothing else
              replace eproblemdate="checkday" if enddateprecision=="month" & day(enddate)!=1
              tab eproblemdate,m
558
              sort startdate sitepatientid
559
                foreach name in eproblemdate {
                        drop if eproblemdate==
                        sort eproblemdate startdate sitepatientid
         capture: export excel using /*redacted*/, sheet("problemprecisionendmeds") firstrow(
      var) sheetmodify
564
                restore, preserve
         preserve
568
              gen edateCR="01jananyyear" if enddateprecision=="year" & day(enddate)==1 & month(
      enddate) == 1
569
          * this will mark something like jan/01/2000 to check if it is not underprecise (could
570
              replace edateCR="01anymonanyyear" if enddateprecision=="month" & inlist(month(
571
      enddate),1,2,3,4,5,6,7,8,9,10,11,12) & day(enddate)==1
         * this will mark something like sep/01/1990 to check if it is not underprecise (could
573
574
              replace edateCR="01anymonanyyear" if enddateprecision=="day" & inlist(month(
      enddate),1,2,3,4,5,6,7,8,9,10,11,12) & day(enddate)==1
          st this will mark something like sep/01/1990 to check if it is not overprecise (could
576
         tab edateCR,m
578
         sort startdate sitepatientid
579
           foreach name in edateCR {
580
           drop if edateCR=='
            sort edateCR startdate sitepatientid
581
          save /*redacted*/, replace
         capture: export excel using /*redacted*/, sheet("medenddateCR") firstrow(var)
      sheetmodify
584
          restore, preserve
```

```
588
          preserve
589
          * to identify startdates==enddates
590
              gen samedate="NO"
               replace samedate="YES" if startdate==enddate & startdateprecision=="day" &
      enddateprecision=="day
               replace samedate="OK ongoing" if samedate=="YES" & enddatetype=="Ongoing"
               replace samedate="OK statmed" if samedate=="YES" & sig=="Stat
594
              table enddatetype samedate, by(datasource)
               sort samedate startdate startdateprecision
599
600
          preserve
              duplicates drop medicationname, force
               sort medicationname
               gen rank= n
604
               keep medicationname rank
          save /*redacted*/,replace
          import excel using /*redacted*/, sheet("standardCodes_Medication") firstrow
608
              sort code
609
               rename code medicationname
610
              merge medicationname using medicationname
611
              tab _merge
              keep category medicationname _merge
              gen medstatus="in CNICS" if _merge==1
replace medstatus="in Upload" if _merge==2
613
614
               replace medstatus="in both" if _merge==3
              drop _merge
               sort medstatus category medicationname
618
          save /*redacted*/,replace
619
620
621
622
623
              tab form route,m
624
          preserve
626
              gen checkformroute=0
               replace checkformroute=1 if route=="IM" & inlist(form,"injection","injectable
       solution","solution")==0
628
               replace checkformroute=1 if route=="IV" & inlist(form, "injection", "injectable
       solution","solution")==0
629
               replace checkformroute=1 if route=="P0" & inlist(form, "pill", "troches", "syrup",
       'tablet","capsule")==0
630
               replace checkformroute=1 if route=="PR" & inlist(form, "suppository")==0
              replace checkformroute=1 if route=="PV" & inlist(form, "cream", "suppository")==0
631
               replace checkformroute=1 if route=="SL" & inlist(form,"pill")==0
               replace checkformroute=1 if route=="inhalation" & inlist(form,"puff","inhaler",
       'liquid'')==0
634
               replace checkformroute=1 if route=="intranasal" & inlist(form, "puff")==0
       replace checkformroute=1 if inlist(route,"intraocular (right)","intraocular",
intraocular (left)")==1 & inlist(form,"solution")==0
              replace checkformroute=1 if route=="sub-Q" & inlist(form, "injection", "injectable
       solution")==0
              replace checkformroute=1 if route=="topical" & inlist(form, "cream", "gel", "liquid",
       lotion","ointment","patch","solution")==0
```

```
tab checkformroute, m
              tab strength, m
              tab units, m
              tab sig, m
644
              tab enddatetype, m
              tab enddateprecision, m
              tab datasource,m
              tab stopreason, m
648
              tab historical, m
649
650
              sort startdate startdateprecision
              gen rank= n
              egen firstmed=min(rank) if startdate!=date("01/01/1900","MDY")
654
              list sitepatientid medicationname startdate startdateprecision enddate
      enddateprecision enddatetype datasource if rank==firstmed
655
              gsort -startdate
              replace rank= n
658
              egen lastmed=min(rank) if rank==1
              list sitepatientid medicationname startdate startdateprecision enddate
      enddateprecision enddatetype datasource if lastmed==1
660
664
669
              tab CODcodelabel, m
670
              tab type, m
671
              tab source, m
674
676
678
              sort sitepatientid siterecordid
679
              tab projectid, m
              tab sessionid, m
              tab questionid,m
              tab sequence, m
              tab state, m
              tab value, m
688
689
690
          use /*redacted*/.clear
              tab siteprocedure, m
              codebook sitepatientid
694
695
```

```
698
700
          use /*redacted*/,clear
          preserve
              sort sitepatientid siterecordid
704
              encode risk, gen(risktype)
              labelbook risktype
              tab risk,m
708
              duplicates tag sitepatientid risk, gen(duprisk)
710
              tab duprisk,m
711
              bysort sitepatientid: gen riskcount=_n
713
714
              bysort sitepatientid: egen maxrisk=max(riskcount)
              count if riskcount==maxrisk & riskcount==1
              count if riskcount==maxrisk & riskcount==2
718
              count if riskcount==maxrisk & riskcount==3
719
              count if riskcount==maxrisk & riskcount==4
720
721
              codebook sitepatientid
722
723
724
728
729
730
          use /*redacted*/,clear
731
              gen datecol=date(datecollected,"MDY")
              drop datecollected
              rename datecol datecollected
734
              gen dateproc=date(dateprocessed,"MDY")
              drop dateprocessed
              rename dateproc dateprocessed
              format datecollected dateprocessed %tdCY-N-D
738
          preserve
739
              sort datecollected
740
              gen rank=_n
741
              list if rank==1
742
              gsort -datecollected
743
              replace rank=_n
744
              list if rank==1
745
              drop rank
              gen colyear=year(datecollected)
747
              gen procyear=year(dateprocessed)
748
              tab colyear, m
749
              tab procyear, m
              tab2xl colyear using /*redacted*/, col(1) row(1) replace
750
751
              tab2xl procyear using /*redacted*/, col(1) row(1) replace
              sort sitepatientid siterecordid
754
              tab datecollectedprecision, m
              tab dateprocessedprecision, m
              count if datecollected==.
758
              count if dateprocessed==.
```

```
tab specimentype,m
              tab anticoagulant,m
764
              tab additive,m
              tab specimenform, m
              tab numberofaliquots, m
              tab volumeperaliquot, m
768
              tab numberofsections,m
769
              tab numberofcells, m
770
              tab colyear if real(numberofcells)<0</pre>
771
              tab storagetemperature, m
              tab numberofaliquots specimentype, m
774
              gen duration=dateprocessed-datecollected if dateprocessed!=.
              tab duration,m
              list if duration<0</pre>
778
              codebook sitepatientid if duration>30 & dateprocessed!=.
779
780
781
783
784
787
          use /*redacted*/,clear
788
789
              encode encountertype, gen(type)
790
              gen year=yofd(encounterdate)
              tab type,m
              graph bar (count) type if encountertype=="Initial", over(year) blabel(bar)
794
              sort sitepatientid encounterdate encountertype
              tab apptstatus, m
              tab encountertype, m
              tab department, m
798
              replace department=trim(department)
              tab encounterlocation, m
              tab encountertype encounterlocation, m
              format encounterdate %tdCY-N-D
          preserve
              gen enrollyear=yofd(encounterdate) if encountertype=="Initial"
              tab enrollyear encountertype if encountertype=="Initial"
              keep if encountertype=="Initial"
              sort enrollyear
              by enrollyear: gen count= N
810
              duplicates drop enrollyear, force
811
812
              graph bar count, over(enrollyear) ytitle("Number of initial visits") yscale(
      nofextend)
813
814
815
          preserve
816
              drop encounterinstype1 encounterinstype2 encounterinstype3 encounterinstype4
      encounterinstype5 encounterid scheduledate
817
              by sitepatientid: gen rank=_n
                 sitenatientid: egen maxrank=max(rank)
212
```

```
819
              keep if maxrank==rank
820
              keep sitepatientid encounterdate encountertype
821
              sort sitepatientid
              save /*redacted*/, replace
823
824
          preserve
              drop encounterinstype1 encounterinstype2 encounterinstype3 encounterinstype4
      encounterinstype5 encounterid scheduledate
827
              keep if encountertype=="Initial'
828
              save /*redacted*/, replace
829
830
          preserve
832
              drop apptstatus encounterinstype1 encounterinstype2 encounterinstype3
      encounterinstype4 encounterinstype5 encounterid scheduledate
833
              by sitepatientid, sort: egen ini=min(cond(encountertype=="Initial",encounterdate
      ..))
834
              by sitepatientid, sort: egen t1=min(cond(encountertype=="HIV primary care",
      encounterdate,.))
835
              format ini t1 %tdCY-N-D
              gen checkpatient=1 if (t1-ini)>365.25
837
              tab checkpatient, m
838
              capture: codebook sitepatientid if checkpatient==1
       \ast to check if any patients are ineligible for not having at least two primary care visits in a 12 month (365.25 days) period\ast/
839
              gen checkt1=1 if t1<ini</pre>
841
              tab checkt1,m /*to check if Initial is badly coded as evidenced by even one
              codebook sitepatientid if checkt1!=.
              gen daysto2ndPC=t1-ini if encountertype=="Initial"
844
              tab daysto2ndPC,m
              tab daysto2ndPC
          * possible reasons?*/
848
849
850
851
852
853
          preserve
854
              sort encounterdate
855
              gen rank=_n
              list if rank==1
856
              drop rank
858
              gsort -encounterdate
859
              qen rank=_n
860
              list if rank==1
              drop rank
864
      log close DataReviewNovember2017
868
870
```