ANNEXURE ONE- Calendar used in NFHS-3

INSTRUCTIONS:

ONLY ONE CODE SHOULD APPEAR IN ANY BOX.
FOR COLUMNS 1 AND 3, ALL MONTHS SHOULD BE FILLED IN.

INFORMATION TO BE CODED FOR EACH COLUMN

COL. 1: BIRTHS, PREGNANCIES, CONTRACEPTIVE USE
- B BIRTHS
- P PREGNANCIES
- T TERMINATIONS

- 0 NO METHOD
- 1 FEMALE STERILIZATION
- 2 MALE STERILIZATION
- 3 PILL
- 4 IUD/LOOP
- 5 INJECTABLES
- 6 IMPLANTS
- 7 CONDOM/NIRODH
- 8 FEMALE CONDOM
- 9 DIAPHRAGM
- J FOAM OR JELLY
- L RHYTHM METHOD
- M WITHDRAWAL
- X OTHER _____ (SPECIFY)

COL. 2: ULTRASOUND CONDUCTED DURING PREGNANCY
- Y YES
- N NO

COL. 3: MARRIAGE
- X MARRIED
- N MARRIED, GAUNA NOT PERFORMED
- 0 NOT MARRIED

COL. 4: DISCONTINUATION OF CONTRACEPTIVE USE
- 0 INFREQUENT SEX/HUSBAND AWAY
- 1 METHOD FAILED/BECAME PREGNANT WHILE USING
- 2 WANTED TO BECOME PREGNANT
- 3 HUSBAND/PARTNER DISAPPROVED
- 4 WANTED MORE EFFECTIVE METHOD
- 5 HEALTH CONCERNS/PROBLEMS
- 6 SIDE EFFECTS
- 7 LACK OF ACCESS/TOO FAR
- 8 COSTS TOO MUCH
- 9 INCONVENIENT TO USE
- F FATALISTIC
- A DIFFICULT TO GET PREGNANT/MENOPAUSAL
- D MARITAL DISSOLUTION/SEPARATION
- L LACK OF SEXUAL SATISFACTION
- M CREATED MENSTRUAL PROBLEM
- G GAINED WEIGHT
- N DID NOT LIKE METHOD
- P LACK OF PRIVACY FOR USE
- X OTHER _____ (SPECIFY)
- Z DON'T KNOW

				1	2		3	4			
	12	DEC	01						01	DEC	
	11	NOV	02						02	NOV	
	10	OCT	03						03	OCT	
	09	SEP	04						04	SEP	
2	08	AUG	05						05	AUG	2
0	07	JUL	06						06	JUL	0
0	06	JUN	07						07	JUN	0
6	05	MAY	08						08	MAY	6
	04	APR	09						09	APR	
	03	MAR	10						10	MAR	
	02	FEB	11						11	FEB	
	01	JAN	12						12	JAN	
	12	DEC	13						13	DEC	
	11	NOV	14						14	NOV	
	10	OCT	15						15	OCT	
	09	SEP	16						16	SEP	
2	08	AUG	17						17	AUG	2
0	07	JUL	18						18	JUL	0
0	06	JUN	19						19	JUN	0
5	05	MAY	20						20	MAY	5
	04	APR	21						21	APR	
	03	MAR	22						22	MAR	
	02	FEB	23						23	FEB	
	01	JAN	24						24	JAN	
	12	DEC	25						25	DEC	
	11	NOV	26						26	NOV	
	10	OCT	27						27	OCT	
	09	SEP	28						28	SEP	
2	08	AUG	29						29	AUG	2
0	07	JUL	30						30	JUL	0
0	06	JUN	31						31	JUN	0
4	05	MAY	32						32	MAY	4
	04	APR	33						33	APR	
	03	MAR	34						34	MAR	
	02	FEB	35						35	FEB	
	01	JAN	36						36	JAN	
	12	DEC	37						37	DEC	
	11	NOV	38						38	NOV	
	10	OCT	39						39	OCT	
	09	SEP	40						40	SEP	
2	08	AUG	41						41	AUG	2
0	07	JUL	42						42	JUL	0
0	06	JUN	43						43	JUN	0
3	05	MAY	44						44	MAY	3
	04	APR	45						45	APR	
	03	MAR	46						46	MAR	
	02	FEB	47						47	FEB	
	01	JAN	48						48	JAN	
	12	DEC	49						49	DEC	
	11	NOV	50						50	NOV	
	10	OCT	51						51	OCT	
	09	SEP	52						52	SEP	
2	08	AUG	53						53	AUG	2
0	07	JUL	54						54	JUL	0
0	06	JUN	55						55	JUN	0
2	05	MAY	56						56	MAY	2
	04	APR	57						57	APR	
	03	MAR	58						58	MAR	
	02	FEB	59						59	FEB	
	01	JAN	60						60	JAN	
	12	DEC	61						61	DEC	
	11	NOV	62						62	NOV	
	10	OCT	63						63	OCT	
	09	SEP	64						64	SEP	
2	08	AUG	65						65	AUG	2
0	07	JUL	66						66	JUL	0
0	06	JUN	67						67	JUN	0
1	05	MAY	68						68	MAY	1
	04	APR	69						69	APR	
	03	MAR	70						70	MAR	
	02	FEB	71						71	FEB	
	01	JAN	72						72	JAN	

Source-http://www.nfhsindia.org/pdf/Woman_QRE.pdf,
Accessed-10 Aug 2008

ANNEXURE TWO-

SPSS Syntax used for analysis

Merging of HIV data file with Individual woman's file

```
GET
  FILE='D:\Data Shirish\IAIR50FL.SAV'.
DATASET NAME DataSet1 WINDOW=FRONT.

SORT CASES BY
  CASEID (A) .

GET
  FILE='D:\Data Shirish\IAar50fl.SAV'.
DATASET NAME DataSet2 WINDOW=FRONT.
```

Variable HIVID was renamed as CASE ID

```
SORT CASES BY
  CASEID (A) .


MATCH FILES /FILE=*
 /TABLE='D:\Data Shirish\IAar50fl.SAV'
 /BY CASEID.
            EXECUTE.
```

Selecting cases as per the selection criteria

```
* Deleting cases- women never married

FILTER OFF.
USE ALL.
SELECT IF(V513 > 0).
EXECUTE .

*Selecting cases of women who were married for less than 12 years
FILTER OFF.
USE ALL.
SELECT IF(V512 < 13).
EXECUTE .

*Selecting cases of women who were never tested for HIV before

FILTER OFF.
USE ALL.
SELECT IF(V781=0).
EXECUTE .
```

In the all India file there were women who were not tested for HIV (24183) for many states so the value under HIV testing was missing therefore these cases were eliminated

```
FILTER OFF.
USE ALL.
SELECT IF(HIV03 = 0 OR HIV03 =1).
EXECUTE .
```

Matching HIV Positive cases with Negative cases

Recode for matching the cases **** base file is allIndia_filtered_unmatched.sav

```
RECODE
  V024  (27=27)  (28=28)  (29=29)  (33=33)  (14=14)  (ELSE=35) INTO StateGr .
EXECUTE .

RECODE
  V130  (1=1)  (2=2)  (ELSE=96) INTO ReligionGR  .
EXECUTE .

RECODE
  V445
  (Lowest thru 1850=1)  (1851 thru 2499=2)  (3000 thru Highest=3)  INTO
  BMI_Group .
EXECUTE .

* Identify Duplicate Cases.
SORT CASES BY V013(A) V025(A) StateGr(A) V106(A) V190(A) HIV03(D) .
MATCH FILES /FILE = * /BY V013 V025 StateGr V106 V190
 /FIRST = PrimaryFirst /LAST = PrimaryLast.
DO IF (PrimaryFirst).
COMPUTE MatchSequence = 1 - PrimaryLast.
ELSE.
COMPUTE MatchSequence = MatchSequence + 1.
END IF.
LEAVE MatchSequence.
FORMAT MatchSequence (f7).
COMPUTE InDupGrp = MatchSequence > 0.
SORT CASES InDupGrp(D).
MATCH FILES /FILE = * /DROP = PrimaryFirst PrimaryLast InDupGrp.
VARIABLE LABELS MatchSequence 'Sequential count of matching cases' .
VARIABLE LEVEL MatchSequence (SCALE).
EXECUTE.
```

After the matching was done then the number of cases were randomly selected. Following is the example of the SPSS syntax for random selection of cases

```
USE ALL.
do if $casenum = 1.
  compute #s_$_1=5.
  compute #s_$_2=25.
  end if.
  do if #s_$_2 > 0.
  compute filter_$ = uniform(1)* #s_$_2 < #s_$_1.
  compute #s_$_1 = #s_$_1 - filter_$.
  compute #s_$_2 = #s_$_2 - 1.
  else.
  compute filter_$ = 0.
  end if.
VARIABLE LABEL filter_$ '5 from the first 25 cases (SAMPLE)'.
FORMAT filter_$ (f1.0).
FILTER BY filter_$.
EXECUTE .
```

After this selection the file with HIV cases and their controls were ready for analysis

Analysis of Effect of HIV on the determinants of exposure to the risk of pregnancy

```
  FILE='F:\Data Shirish\NFHS_3\Final data set without religion'+
 ' matching\AllIndia_complete.sav'.
DATASET NAME DataSet1 WINDOW=FRONT.

CROSSTABS
  /TABLES=V013 V024 V025 V106 V190 BY HIV03
  /FORMAT= AVALUE TABLES
  /CELLS= COUNT
  /COUNT ROUND CELL .
DESCRIPTIVES
  VARIABLES=V012
  /STATISTICS=MEAN STDDEV MIN MAX .
MEANS
  TABLES=V012  BY HIV03
  /CELLS MEAN COUNT STDDEV  .

COMPUTE BodyMassIndex = V445/100 .
EXECUTE .

RECODE
  BodyMassIndex
  (0 thru 18.5=1)  (18.5 thru 24.99=2)  (25 thru Highest=3)  INTO  BMI_Gr .
EXECUTE .

CROSSTABS
  /TABLES=BMI_Gr  BY HIV03
  /FORMAT= AVALUE TABLES
  /STATISTIC=CHISQ
  /CELLS= COUNT
  /COUNT ROUND CELL .

EXAMINE
  VARIABLES=BodyMassIndex
  /PLOT BOXPLOT STEMLEAF NPPLOT
  /COMPARE GROUP
  /STATISTICS DESCRIPTIVES EXTREME
  /CINTERVAL 95
  /MISSING LISTWISE
  /NOTOTAL.

NPAR TESTS
  /M-W= BodyMassIndex   BY HIV03(0 1)
  /K-S= BodyMassIndex   BY HIV03(0 1)
  /MISSING ANALYSIS
  /METHOD=EXACT TIMER(5).
CROSSTABS
  /TABLES=V457  BY HIV03
  /FORMAT= AVALUE TABLES
  /STATISTIC=CHISQ
  /CELLS= COUNT
  /COUNT ROUND CELL .
NPAR TESTS
  /M-W= V453   BY HIV03(0 1)
  /K-S= V453   BY HIV03(0 1)
  /MISSING ANALYSIS
  /METHOD=EXACT TIMER(5).
CROSSTABS
  /TABLES=HIV03  BY V501
```

```
  /FORMAT= AVALUE TABLES
  /STATISTIC=CHISQ
  /CELLS= COUNT
  /COUNT ROUND CELL .

RECODE
  V201
  (0=0)  (1=1)  (2=2)  (3 thru 8=3)  INTO  Total_children .
EXECUTE .

RECODE
  V208
  (0=0)  (ELSE=1)  INTO  birthlast5yrs_yes_no .
EXECUTE .
SORT CASES BY
  HIV03 (D) .
```

Marriage to first birth interval

```
RECODE
  B3$01 B3$02 B3$03 B3$04 B3$05 B3$06 B3$07 B3$08 B3$09 B3$10 B3$11
  (SYSMIS=0)  .
EXECUTE .

COMPUTE one = B3$11 .
EXECUTE .

IF (B3$07=0) two = B3$06 .
EXECUTE .

IF (B3$06=0) three = B3$05 .
EXECUTE .

IF (B3$05=0) four = B3$04 .
EXECUTE .

IF (B3$04=0) five = B3$03 .
EXECUTE .

IF (B3$03=0) six = B3$02 .
EXECUTE .

IF (B3$02=0) seven = B3$01 .
EXECUTE .

RECODE
  one two three four five six seven  (SYSMIS=0)  .
EXECUTE .
COMPUTE CMCfirstbirth = one + two + three + four + five + six + seven .
EXECUTE .

IF (CMCfirstbirth ~= 0) dur_mar_firstbrith = CMCfirstbirth-V509 .
EXECUTE .

IF (CMCfirstbirth = 0) dur_mar_interview = V008 - V509 .
EXECUTE .

RECODE
  dur_mar_firstbrith dur_mar_interview  (SYSMIS=0)  .
EXECUTE .
```

```
COMPUTE duration_firstbirth = dur_mar_firstbrith + dur_mar_interview .
EXECUTE .
RECODE
  CMCfirstbirth
  (0=0)  (ELSE=1)  INTO  Event .
EXECUTE .
KM
  duration_firstbirth  BY HIV03  /STATUS=Event(1)
  /PRINT MEAN
  /PLOT SURVIVAL
  /TEST LOGRANK
  /COMPARE OVERALL POOLED .
```

Marriage to first birth interval- Second Sample (date of marriage is less than start of calendar)
**** To avoid repetition syntax for initial selection process is not given**

```
EXECUTE .
IF (B3$04=0) three = B3$03 .
EXECUTE .
EXECUTE .
IF (B3$03=0) two = B3$02 .
EXECUTE .
IF (B3$02=0) one = B3$01 .
EXECUTE .
COMPUTE CMCfirstbirth = four + three + two + one .
EXECUTE .
IF (CMCfirstbirth ~= 0) Dur_mar_firstbirth = CMCfirstbirth - V509 .
EXECUTE .
RECODE
  Dur_mar_firstbirth  (SYSMIS=0)  .
EXECUTE .
IF (Dur_mar_firstbirth = 0) Dur_mar_interview = V008 - V509 .
EXECUTE .
RECODE
  Dur_mar_interview  (SYSMIS=0)  .
EXECUTE .
COMPUTE Duration = Dur_mar_firstbirth + Dur_mar_interview .
EXECUTE .
RECODE
  CMCfirstbirth
  (0=0)  (ELSE=1)  INTO  Event .
EXECUTE .
RECODE
  V511
  (0 thru 18=1)  (19 thru Highest=2)  INTO  age_marriage_Gr .
EXECUTE .
KM
  currected_duration  BY HIV03  /STATUS=Event(1)
  /PRINT MEAN
  /PLOT SURVIVAL
  /TEST LOGRANK
  /COMPARE OVERALL POOLED .
```

Analysis of Interval between last two pregnancies

```
DATASET COPY HIV_Negative.
DATASET ACTIVATE HIV_Negative.
FILTER OFF.
USE ALL.
SELECT IF(HIV03=1).
DATASET ACTIVATE DataSet4.
EXECUTE .
FILTER OFF.
USE ALL.
SELECT IF(Preg_calender ~= 0).
EXECUTE .
FILTER OFF.
USE ALL.
SELECT IF(V781=0).
EXECUTE .
FILTER OFF.
USE ALL.
SELECT IF(V781=0).
EXECUTE .
FILTER OFF.
USE ALL.
SELECT IF(Preg_calend ~= 0).
EXECUTE .
FILTER OFF.
USE ALL.
SELECT IF(VAR00002 ~= 0).
EXECUTE .
RECODE
  V024
  (9=9)  (14=14)  (27=27)  (28=28)  (29=29)  (33=33)  (ELSE=0)  INTO
  state_selection .
EXECUTE .
FILTER OFF.
USE ALL.
SELECT IF(state_selection ~= 0).
EXECUTE .
ADD FILES /FILE=*
 /FILE='HIV_Negative'.
EXECUTE.
* Identify Duplicate Cases.
SORT CASES BY V013(A) V024(A) V025(A) V106(A) V190(A) HIV03(D) .
MATCH FILES /FILE = * /BY V013 V024 V025 V106 V190
 /FIRST = PrimaryFirst /LAST = PrimaryLast.
DO IF (PrimaryFirst).
COMPUTE MatchSequence = 1 - PrimaryLast.
ELSE.
COMPUTE MatchSequence = MatchSequence + 1.
END IF.
LEAVE MatchSequence.
FORMAT MatchSequence (f7).
COMPUTE InDupGrp = MatchSequence > 0.
SORT CASES InDupGrp(D).
MATCH FILES /FILE = * /DROP = PrimaryFirst InDupGrp.
VARIABLE LABELS PrimaryLast 'Indicator of each last matching case as Primary'
  MatchSequence 'Sequential count of matching cases' .
VALUE LABELS PrimaryLast 0 'Duplicate Case' 1 'Primary Case'.
VARIABLE LEVEL PrimaryLast (ORDINAL)
    /MatchSequence (SCALE).
```

```
EXECUTE.
COMPUTE one = MatchSequence=1 .
EXECUTE .
COMPUTE two = MatchSequence=3 .
EXECUTE .
COMPUTE three = MatchSequence=5 .
EXECUTE .
COMPUTE four = MatchSequence=7 .
EXECUTE .
COMPUTE five = MatchSequence=9 .
EXECUTE .
COMPUTE cases = one + two + three + four + five .
EXECUTE .
FILTER OFF.
USE ALL.
SELECT IF(cases = 1).
EXECUTE .
IF (Births = 1) Start_B1 = B3$01 .
EXECUTE .
IF (Births ~= 1) Start_B2 = B3$02 .
EXECUTE .
COMPUTE Satrt_Dur = Start_B1 + Start_B2 .
EXECUTE .
RECODE
  Satrt_Dur
  (0=0)  (ELSE=1)  INTO  Outcome .
EXECUTE .
IF (moths_aftercal ~= 0) CMC_start_termination = V017 + moths_aftercal .
EXECUTE .

COMPUTE Start_CMC = CMC_start_termination + Satrt_Dur_B .
EXECUTE .


IF (sustract_interview ~= 0) end_one = V008 - sustract_interview .
EXECUTE .
IF (Event=2) end_two = B3$01-9 .
EXECUTE .
IF (Event=0) end_three = V008 .
EXECUTE .

COMPUTE End_CMC = end_one + end_two + end_three .
EXECUTE .

IF (Months_marrg ~= 0) End_Nonmarried = V017 + Months_marrg .
EXECUTE .
COMPUTE Final_end_CMC = End_CMC + End_Nonmarried .
EXECUTE .
RECODE
  Event
  (0=0)  (ELSE=1)  INTO  eventCox .
EXECUTE .
COMPUTE DurationCox = Final_end_CMC - Start_CMC .
EXECUTE .
COMPUTE Age_start = (Start_CMC - V011) / 12 .
EXECUTE .
IF (Births=1 and Termination=0) amon_one = M7$1 .
EXECUTE .
IF (Births  > 1 and moths_aftercal = 0) amon_two = M7$2 .
EXECUTE .
```

```
COMPUTE Dur_amon = amon_one + amon_two .
EXECUTE .
IF (Births=1 and Termination=0) BF_one = M5$1 .
EXECUTE .
IF (Births  > 1 and moths_aftercal = 0) BF_two = M5$2 .
EXECUTE .
COMPUTE Dur_BF = BF_one + BF_two .
EXECUTE .
RECODE
  Age_start
  (15 thru 19=1)  (20 thru 24=2)  (25 thru Highest=3)  INTO  AgeStart_gr .
EXECUTE .

COXREG
  DurationCox  /STATUS=eventCox(1)
  /METHOD=ENTER Dur_BF Dur_amon HIV03 contraception
  /CRITERIA=PIN(.05) POUT(.10) ITERATE(20) .
COXREG
  DurationCox  /STATUS=eventCox(1)
  /PATTERN BY HIV03
  /CONTRAST (HIV03)=Indicator  /CONTRAST (contraception)=Indicator
  /METHOD=ENTER Dur_BF Dur_amon HIV03 contraception
  /PLOT SURVIVAL
  /PRINT=CI(95)
  /CRITERIA=PIN(.05) POUT(.10) ITERATE(20) .
```