Relationship and Fertility Data: Wave IV

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Overview of Presentation

❖ Brief introduction: Relationship and fertility data in Add Health Waves I to III

❖ Distinct listing of relationships in Wave IV data

❖ Nested data structure: from relationship to pregnancy, live birth, and child

❖ Relationship and fertility data across sections
  – Contents
  – Data flows
  – Inter-sectional, hierarchical data relationships
  – Unique ID components

Overview of Presentation

❖ Computational and technical tips
   – Unique ID Creation
   – Summary counts
   – Different levels and units of analysis
   – Hierarchical file merging

❖ Some general advice

❖ Questions and answers

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Relationship & Fertility Data across Waves

Waves I, II

Demographic

Family, siblings, friends

Education, work

Physical and mental health

Daily activities and sleep

Relationships

Sexual, & fertility histories

Substance use

Delinquency and violence

Attitudes, religion

Economics, expectations

Psychological, personality

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Wave III

Demographic

Family, siblings, friends

Education, work, military

Physical and mental health

Daily activities and sleep

Relationships

Sexual, & fertility histories

Substance use

Involvmt w/criminal justice system

Attitudes, religion

Economics, expectations

Psychological, personality

Children and parenting

Civic participation

Gambling

mentoring

Wave IV

Demographic

Family, siblings, friends

Educ, work, military (records)

Physical and mental health

Daily activities and sleep

Relationships

Sexual, & fertility histories

Substance use and abuse

Involvmt w/criminal justice sys

Work attitudes and chars, relig

Economics, expectations

Big 5 Personality, stressors

Children and parenting

Civic participation

Cognitive function

Psychosocial factors

Relationship & Fertility Data across Waves

Wave I (1994-1995; Grades 7-12; N=20,745) & Wave II (1996; Grades 8-12; N=14,738)

Name up to 3 "romantic" relationships

- *If none, then "Like" relationships*

Name up to 3 "non-romantic" relationships

Information about Relationships:

- Begin/end dates
- Social context when relationship began
- Partner demographics
   - ❑ *gender, age, race/ethnicity*
- First & most recent sexual intercourse
   - ❑ *date, contraceptive use*
- Verbal and physical abuse (W2 only)

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Relationship & Fertility Data across Waves

Wave I & Wave II

Fertility experiences (female Rs only)

Pregnancies :

- ❑ *Number of times, dates, outcome*
- ❑ *Contraceptive use, want marriage*
- ❑ *Child alive?*
- ❑ *Gave up for adoption?*

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Add Health

Relationship & Fertility Data across Waves

Wave III (2001-2002; Aged 18-26; N=15,197)

- **Marriage history**
  - ❑ *Begin/end dates*
  - ❑ *Current?*
  - ❑ *Still living together – last date*
  - ❑ *How ended?*

- **Cohabitation history**
  - ❑ *Begin/end dates*
  - ❑ *Still living together – last date*
  - ❑ *Ever married to partner?*
  - ❑ *How ended?*

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Relationship & Fertility Data across Waves

Wave III

Romantic and pregnancy relationships since 1995

 (N = 42,330 relationship records)

Relationships in Detail (N = 38,375)

- 3 sets selected according to different criteria:
  - ❑ Sexual relationships, N = 36,128
  - ❑ 2 most important relationships, N= 20,878
  - ❑ Couple (CP) sample for partner recruitment, N = 4,236

Relationship & Fertility Data across Waves

Wave III Relationships in Detail (N=38,375)

Couples Sample for
partner recruitment
N=4,236

32

204

93

3,907

2,011

17,372

14,756

Sexual
Relationships
N=36,128
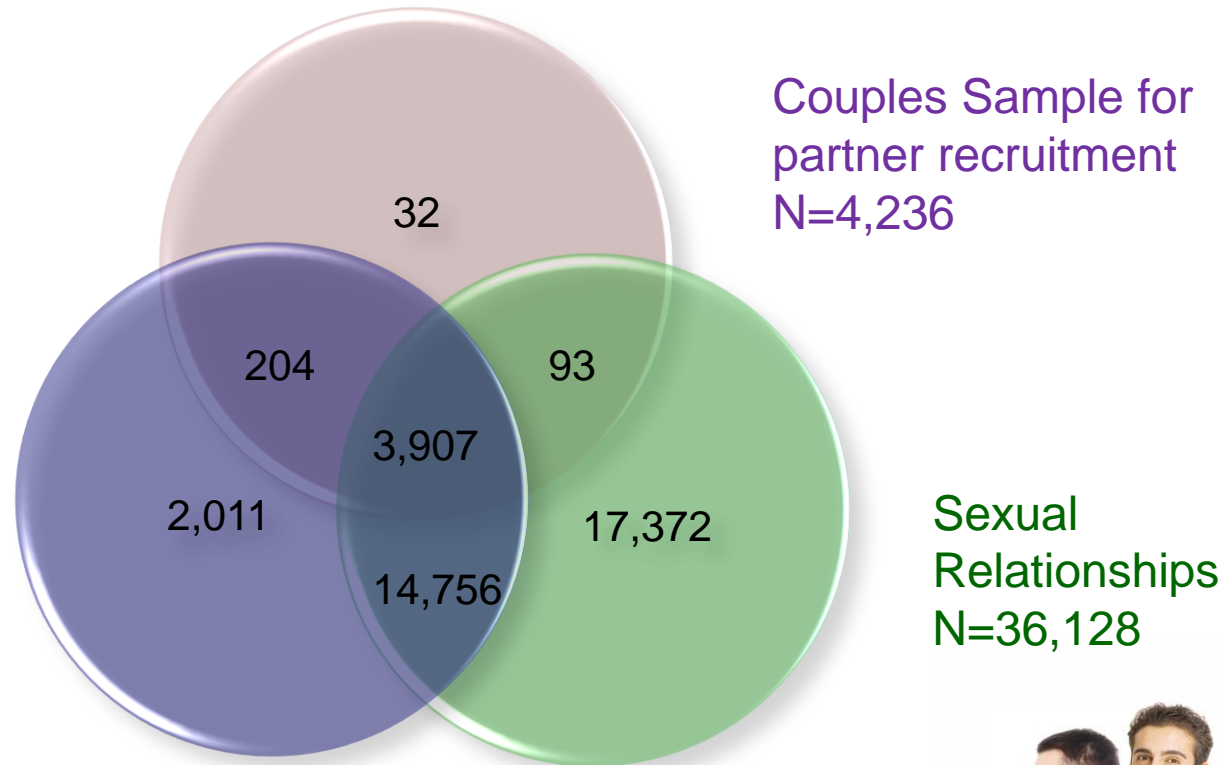
2 Most
important
N=20,878

Relationship & Fertility Data across Waves

Wave III Couples Sample

- Relationships are eligible if:
  - ❑ *Current*
  - ❑ *Opposite sex*
  - ❑ *Partner 18 or older*
  - ❑ *Relationship duration >= 3 months*

- About 4,000 partners qualified to be enlisted for the couples sample recruitment.

- The Couples Sample was a purposive, quota sample (N=1,507) designed to collect information on 1/3 married, 1/3 cohabiting, and 1/3 dating partners.

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Relationship & Fertility Data across Waves

Wave III Relationships in Detail

- **R & partner's age:**

  ❑ *1st met; have a romantic relationship; sexual relationship*

- **Begin/end dates:**

  ❑ *Romantic relationship; sexual relationship; marriage*

- **Duration:**

  ❑ *Living together before marriage; sexual relationship before cohabitation; same residence*

- **Cohabitation:**

  ❑ *Travel distance; other residence; who else lived there; no. nights together.*

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Relationship & Fertility Data across Waves

Wave III Relationships in Detail (Cont.)

- **Various types of sexual activities**
  - ❑ *When: first/most recent time – dates, frequencies*
- **Different types of birth control/condom use**
  - ❑ *Combined with different types of sexual activities*
  - ❑ *When used: first/most recent time – dates, frequencies*
- **Relationship qualities**
  - ❑ *Best describes current relationship*
  - ❑ *Currently engaged to marry*
  - ❑ *Abuses (verbal, physical, forced sex, resulted injuries)*
  - ❑ *Satisfaction; love; dominance*
  - ❑ *Joint account; purchase; chores*

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Relationship & Fertility Data across Waves

Wave IV (2007-2008; Aged 24-32; N=15,701)

❖ Relationship data collection structure differs from Wave III

  – Specific romantic/sexual relationships R have had

  – Exclusive listings by partner types

    ❑ Married ('M')

    ❑ Cohabitated ('C')

    ❑ Pregnancy ('P')

    ❑ Currently Dating ('CD')

    ❑ Most Recent ('MR')

❖ You cannot update Wave III with Wave IV relationships -- It's not an add-on!

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Wave IV Relationships, pregnancies, live births, and children

- **Nested Data Structure**
  - *Respondent's reporting on total number of relationships/partners (by types)*
    - *Section 16A [H4TR*]*
      - ❑ Married ('M')
      - ❑ Cohabitated ('C')
      - ❑ Pregnancy ('P')
      - ❑ Currently Dating ('CD')

  - *Time-segments associated with each Relationship/partner*
    - *Section 16B & C [H4TR*]*

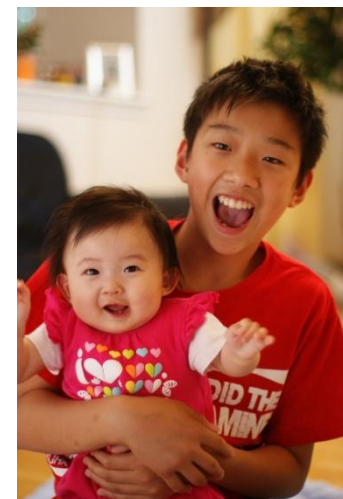UNC CAROLINA POPULATION CENTER

Wave IV Relationships, pregnancies, live births, and children

- **Nested Data Structure (Cont.)**
  - *Selected Relationship in Details*
    - *Section 17   [H4RD*]*

  - *All pregnancies associated w/ the reported relationship/partners*
    - *Section 18   [H4PG*]*

Wave IV Relationships, pregnancies, live births, and children

- **Nested Data Structure (Cont.)**
  - *All live births resulted from pregnancies*
    - *Section 19   [H4LB*]*

  - *All live births who are still living and not given up for adoption (Children)*
    - *Section 20A   [H4KK*]*

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Wave IV Relationships, pregnancies, live births, and children

- **Nested Data Structure (Cont.)**
  - *Respondents who have at least 1 child at home reporting on their parenting attitudes.*
    - *Section 20B [H4KK*]*

Wave IV Romantic/Sexual Relationships

S16A: R's description of total no. of relationships, pregnancies, live births, children still living.

- **Unit of Analysis** – Respondent (N=15,701)

- **Record ID:** AID

- **Contents:**
    - # Persons ever married ('M' partners)
    - # Persons ever lived with but not married ('C' partners)
    - # Persons ever had a pregnancy with besides 'M' and 'C' partners ('P' partners)
    - # Persons currently dating besides 'M', 'C', and 'P' partners ('CD' partners)
    - # Other relationships < 6 months since 2001
    - # Other relationships 6+ months since 2001

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Wave IV Romantic/Sexual Relationships

S16A: R's description of total no. of relationships, pregnancies, live births, children still living (Cont.)
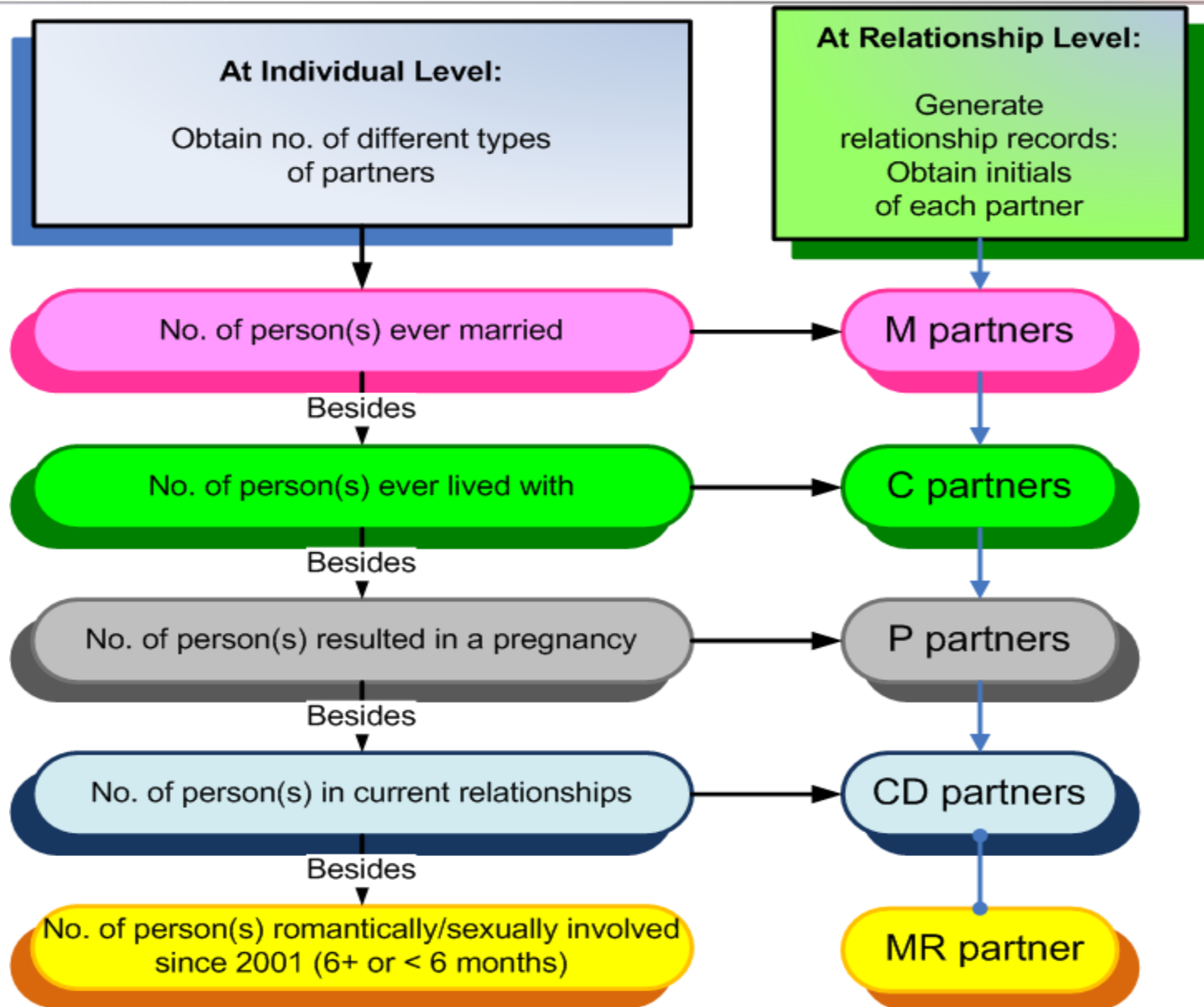
- **Contents:**

  – {For female Rs} Currently pregnant?

  – Total # (life-time) pregnancies (including current)
  – Total # (life-time) live births
  – Total # biological children still living
  – {For R and any partners} Ever trouble getting pregnant or avoid a miscarriage
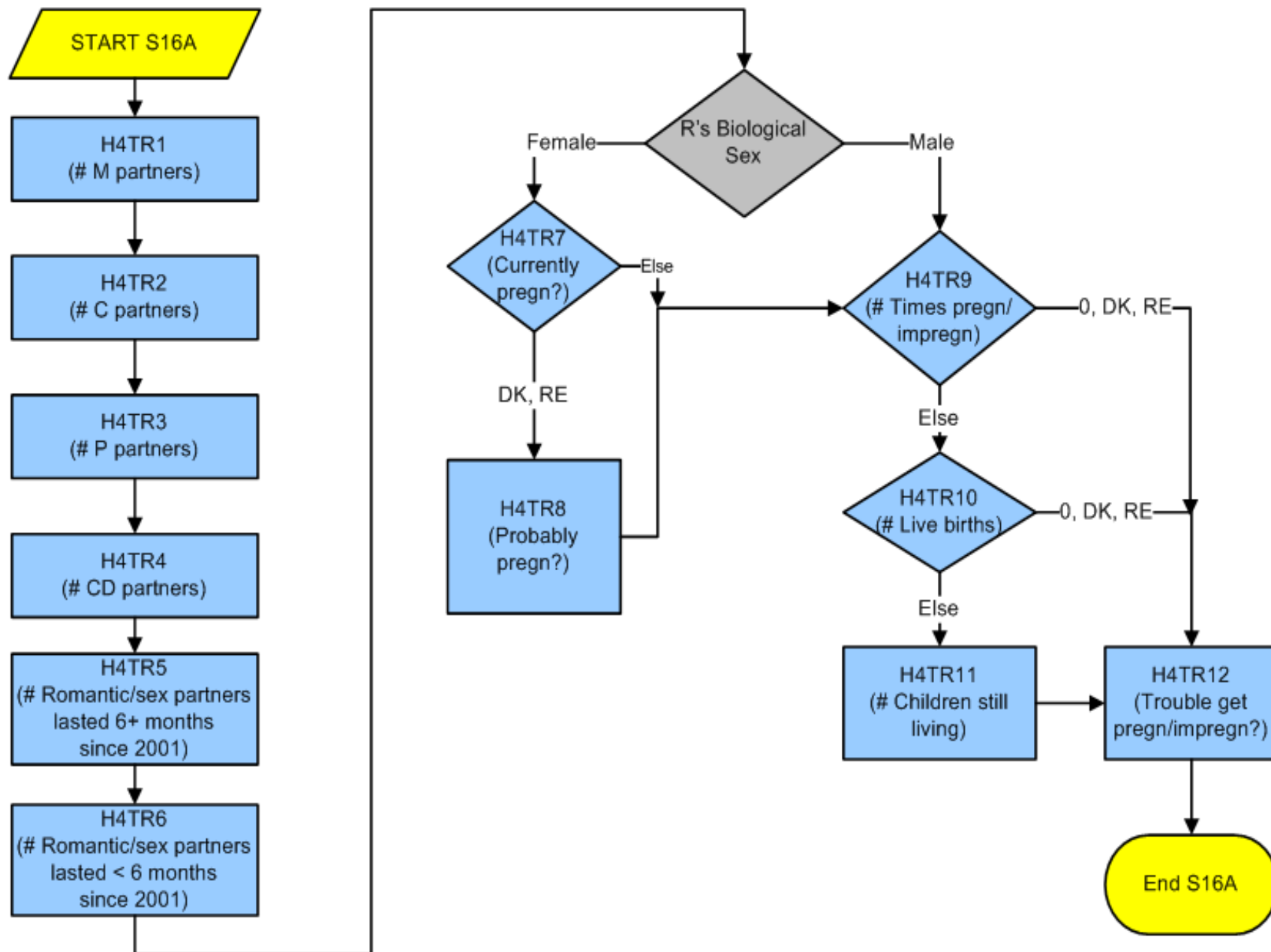
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Wave IV Hierarchical Data Structure of Individual, Relationship, Pregnancy, Live Birth, and Child Records

At Individual Level:

Obtain no. of different types of partners

At Relationship Level:

Generate relationship records: Obtain initials of each partner

No. of person(s) ever married → M partners

Besides

No. of person(s) ever lived with → C partners

Besides

No. of person(s) resulted in a pregnancy → P partners

Besides

No. of person(s) in current relationships → CD partners

Besides

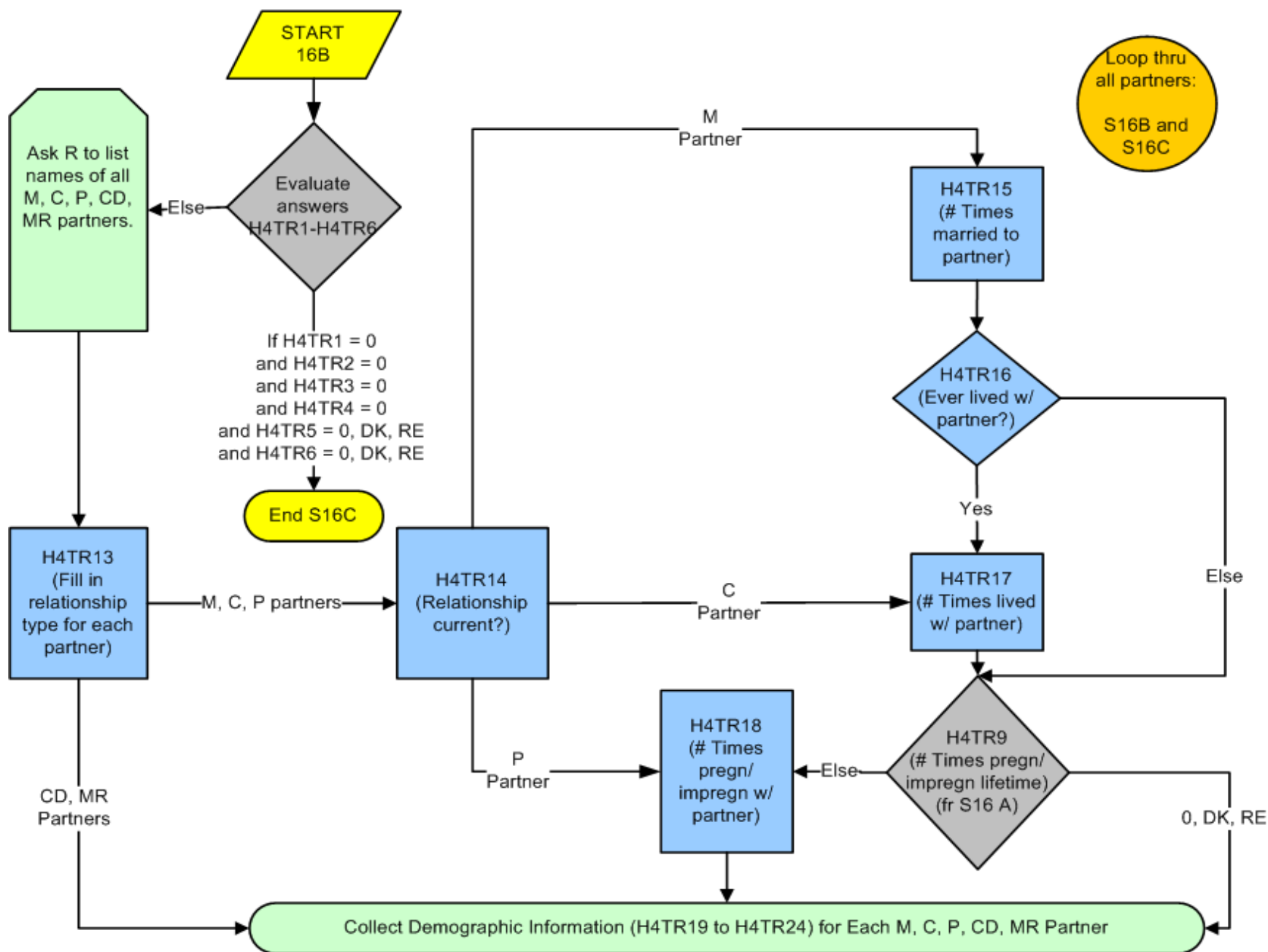No. of person(s) romantically/sexually involved since 2001 (6+ or < 6 months) → MR partner
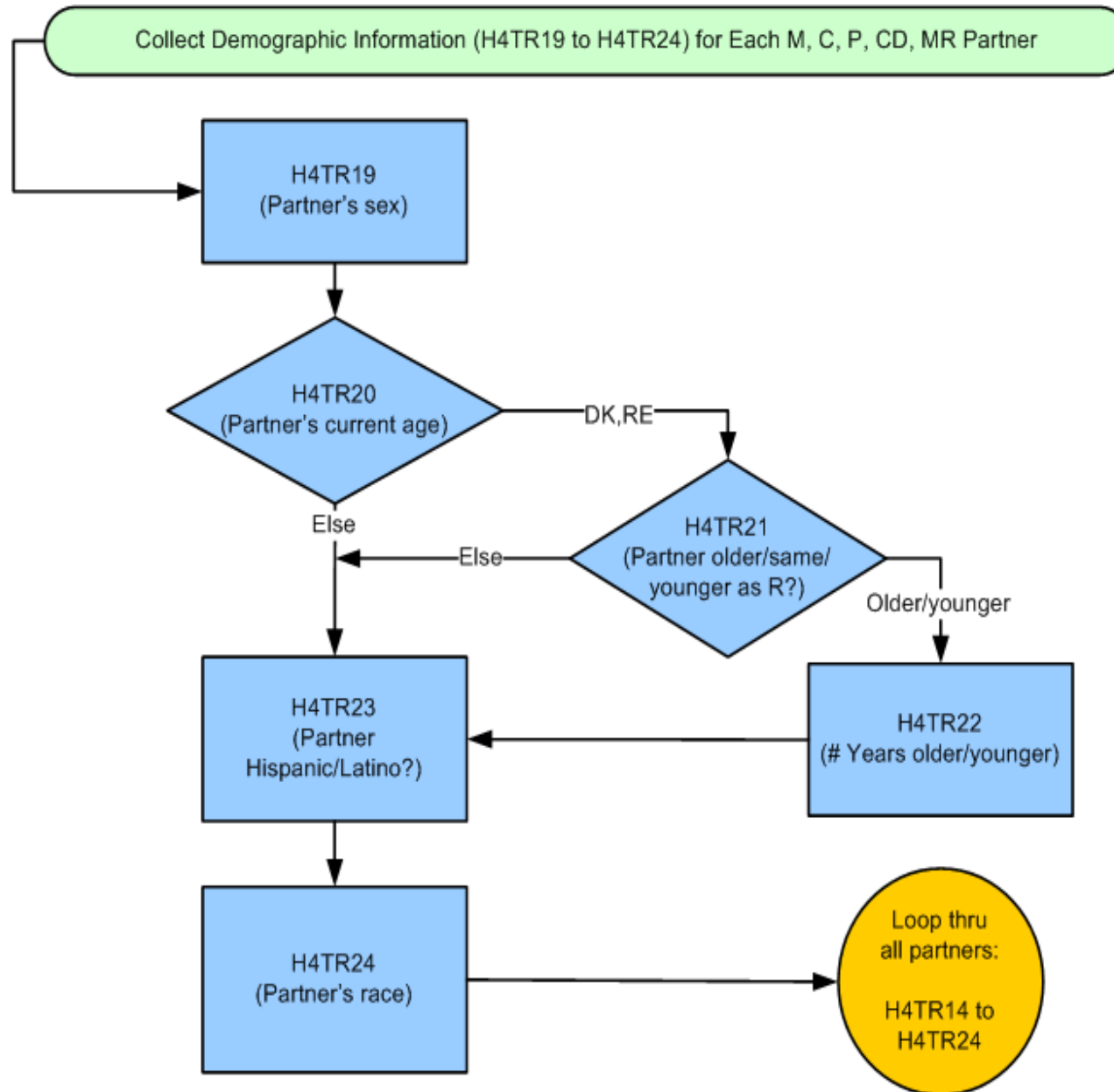
21

Wave IV Romantic/Sexual Relationships

S16B: Relationship/Partner characteristics

- **Unit of Analysis** – Partners (N=30,263)

- **Record ID:** AID + PTNR_ID

- **Contents:**
  - Type of relationship listed with R *('M' , 'C' ,'P', 'CD' , 'MR' partner)*
  - Relationship current?
  - # Times married to partner *('M')*
  - Ever lived together? *('M')*
  - # Times lived together with partner *('M','C')*
  - # Times pregnant with partner *('M','C', 'P')*
  - Partner's biological sex, age, Hispanic background, and race.

START
16B

Ask R to list names of all M, C, P, CD, MR partners.

Evaluate answers H4TR1-H4TR6

Else

Loop thru all partners:

S16B and S16C

M Partner

H4TR15 (# Times married to partner)

H4TR16 (Ever lived w/ partner?)

If H4TR1 = 0
and H4TR2 = 0
and H4TR3 = 0
and H4TR4 = 0
and H4TR5 = 0, DK, RE
and H4TR6 = 0, DK, RE

End S16C

Yes

Else

H4TR13 (Fill in relationship type for each partner)

M, C, P partners

H4TR14 (Relationship current?)

C Partner

H4TR17 (# Times lived w/ partner)

CD, MR Partners

P Partner

H4TR18 (# Times pregn/ impregn w/ partner)

Else

H4TR9 (# Times pregn/ impregn lifetime) (fr S16 A)

0, DK, RE

Collect Demographic Information (H4TR19 to H4TR24) for Each M, C, P, CD, MR Partner
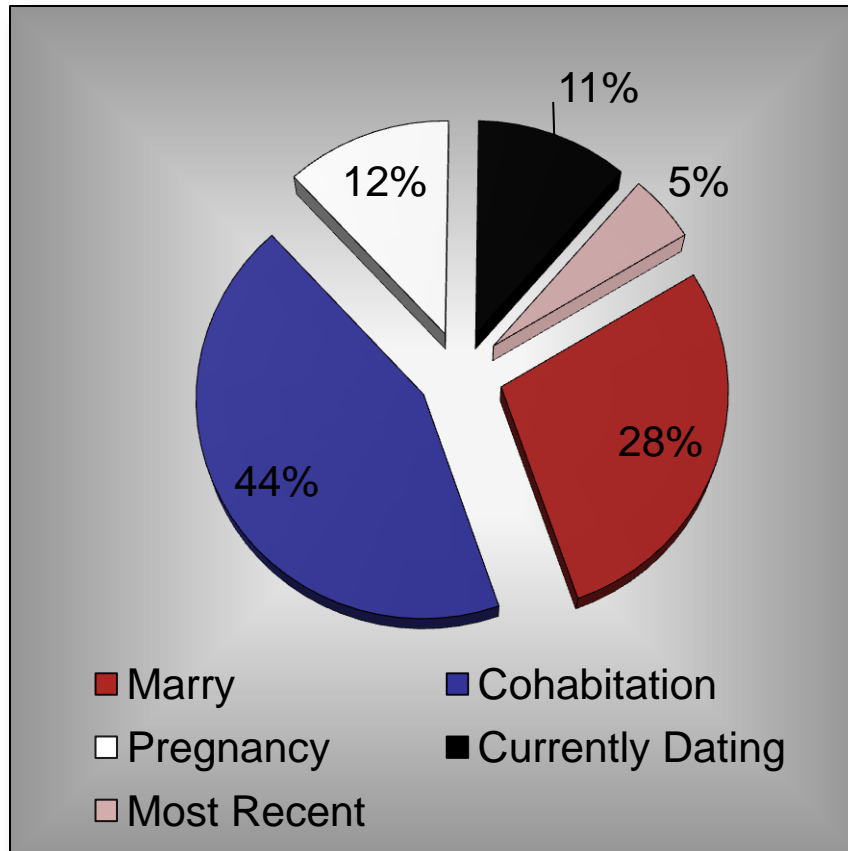
Wave IV Romantic/Sexual Relationships

S16B: Relationship/Partner characteristics

- Among 15,701 respondents, 2.5% did not report any partner records in S16B.

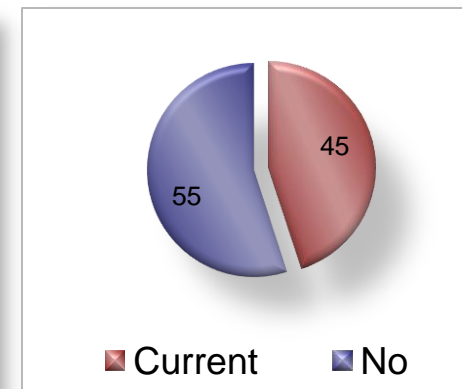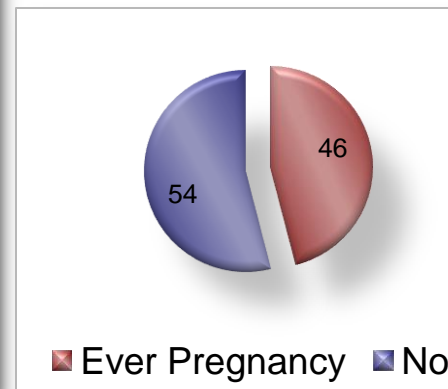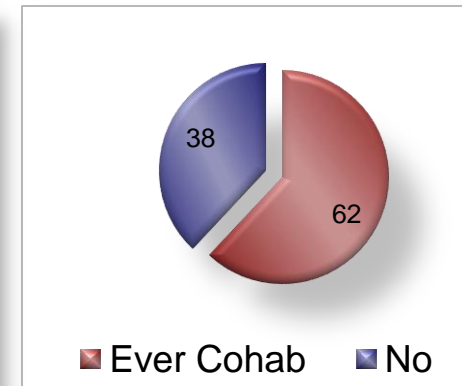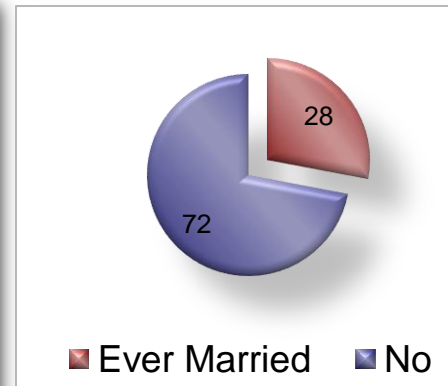■ No partner record   ■ Reported at least 1 partner

Wave IV Hierarchical Data Structure of Individual, Relationship, Pregnancy, Live Birth, and Child Records

Relationship Type (H4TR13)

Legend:
- ■ Marry (red)
- ■ Cohabitation (blue)
- □ Pregnancy (white)
- ■ Currently Dating (black)
- ■ Most Recent (pink)

Values: 11%, 5%, 12%, 44%, 28%

Among all relationships, percent …

Ever Married: 28 / No: 72

Ever Cohab: 62 / No: 38

Ever Pregnancy: 46 / No: 54

Current: 45 / No: 55

Wave IV Romantic/Sexual Relationships
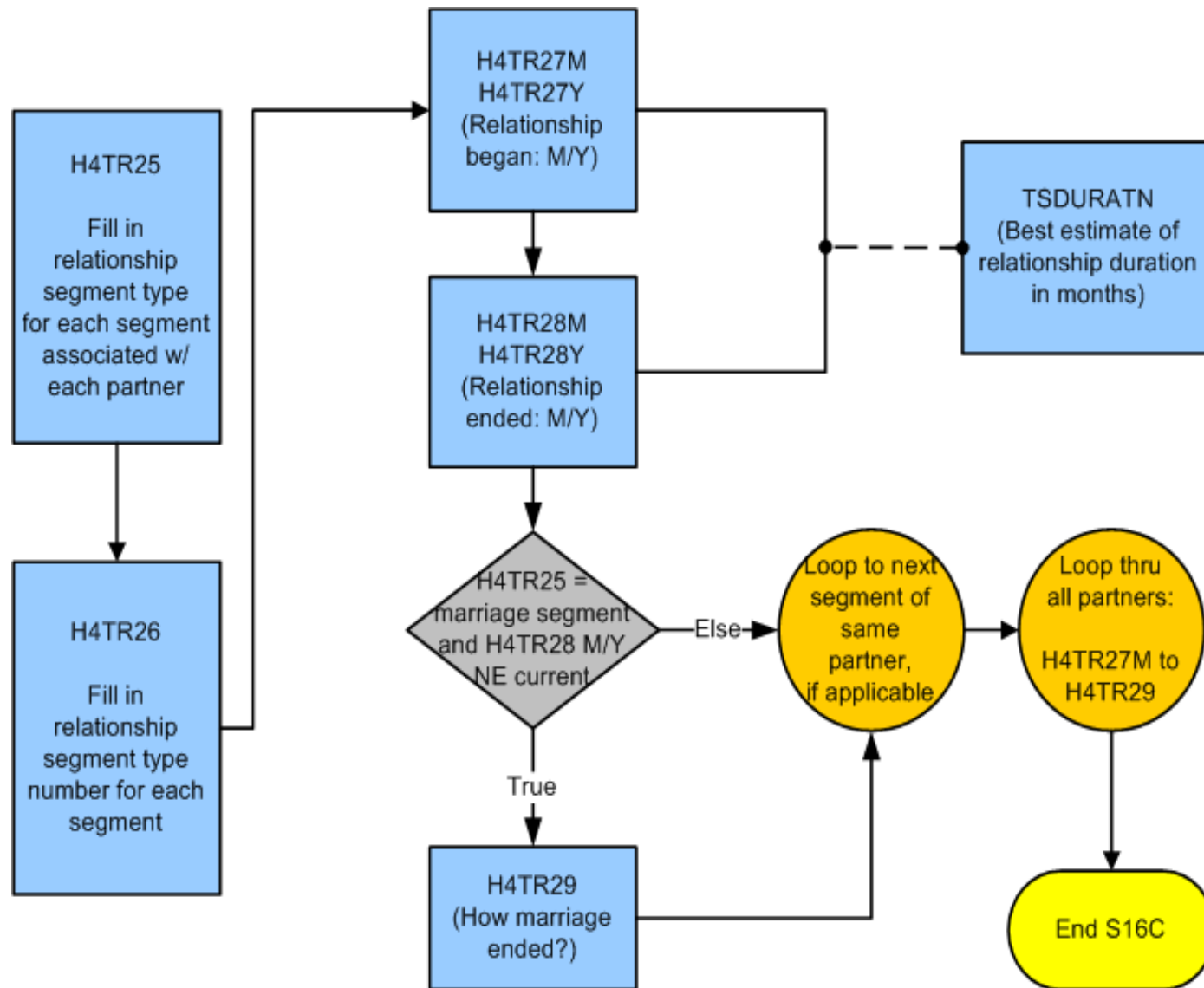
S16C: Relationship Time-segments

- **Unit of Analysis** – Time-segment (N=36,133)

- **Record ID:** AID + PTNR_ID + H4TR25 + H4TR26

- **Contents:**

    – Type of relationship time-segment *('M', 'C', 'P', 'CD', 'MR') [H4TR25]*
    – Time-segment number *[H4TR26]*
    – Relationship begin and end dates
    – Best estimate of relationship duration
    – How marriage ended

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Wave IV Romantic/Sexual Relationships
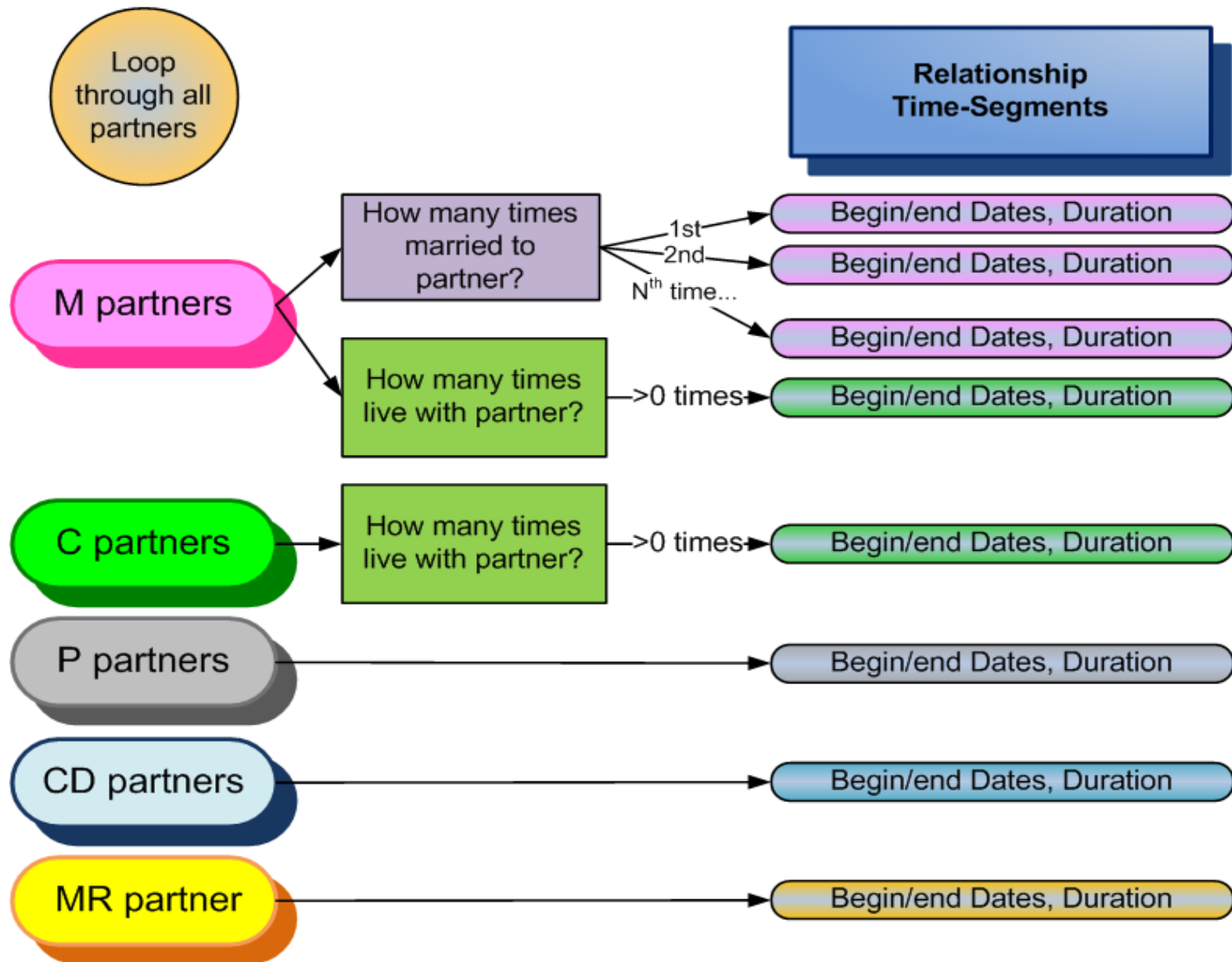
S16C: Relationship Time-segments

Partner ID PTNR_ID	Partner Type H4TR13	Relationship Time-segment Type H4TR25	Time-segment number H4TR26
1	M	M (1st time)	1=1st time
		M (2nd time)	2=2nd time
2	M	M(1st time)	1=1st time
		C	8=All
3	C	C	8=All
4	P	P	8=All
5	CD	CD	8=All

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Wave IV Hierarchical Data Structure: Relationship and Relationship Time-Segments

Loop through all partners

Relationship Time-Segments

M partners

How many times married to partner?
- 1st → Begin/end Dates, Duration
- 2nd → Begin/end Dates, Duration
- Nth time... → Begin/end Dates, Duration

How many times live with partner? >0 times → Begin/end Dates, Duration

C partners
How many times live with partner? >0 times → Begin/end Dates, Duration

P partners → Begin/end Dates, Duration

CD partners → Begin/end Dates, Duration

MR partner → Begin/end Dates, Duration

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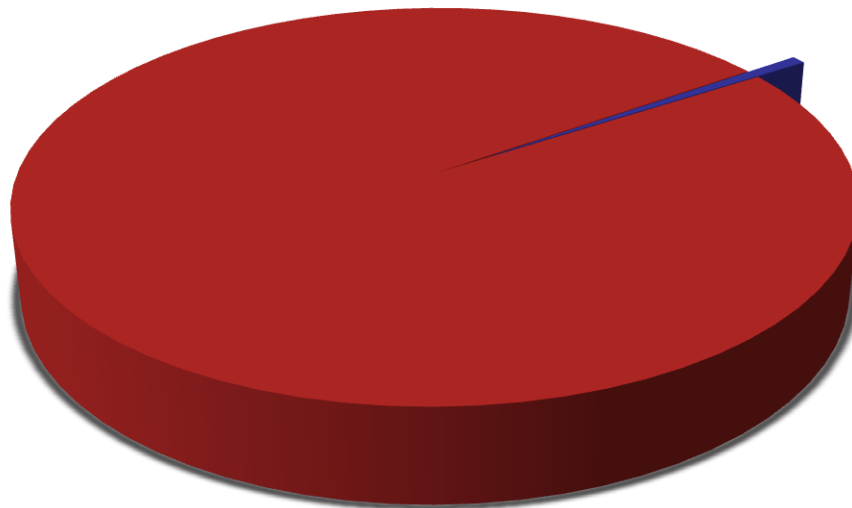# Wave IV Romantic/Sexual Relationships

S16B: Relationship/Partner characteristics

- Among 30,263 partner records, 81% link to 1 time-segment in S16C; 19% to 2 segments; only a few to 3 or more.

■ 1 Time segment ■ 2 Time segments ◨ 3+ Time segments

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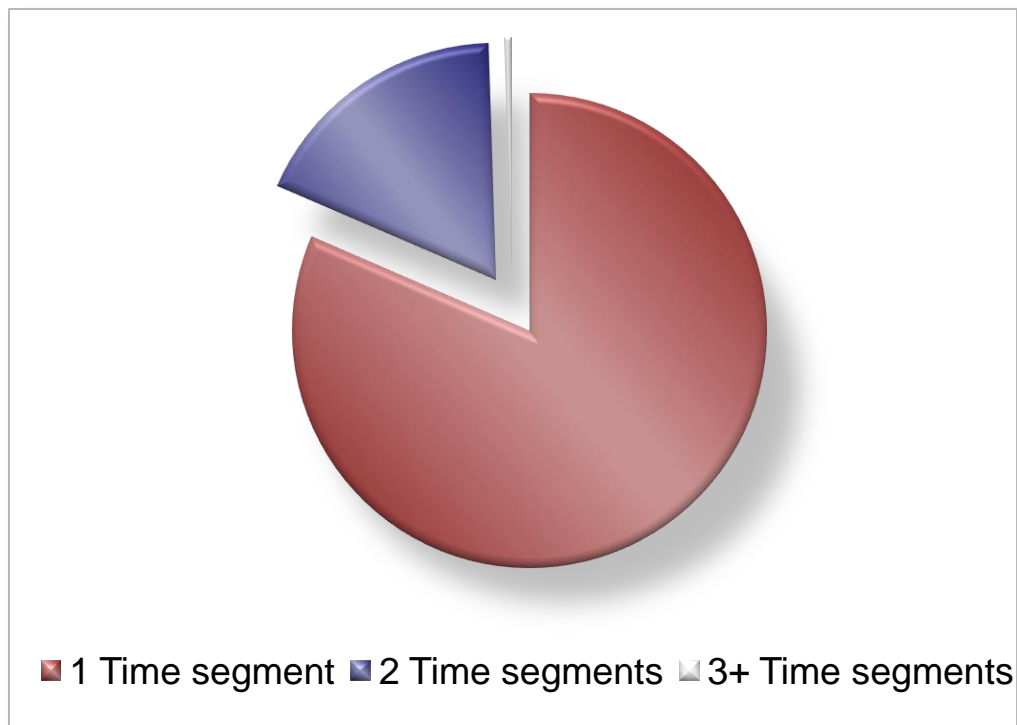
Wave IV Romantic/Sexual Relationships
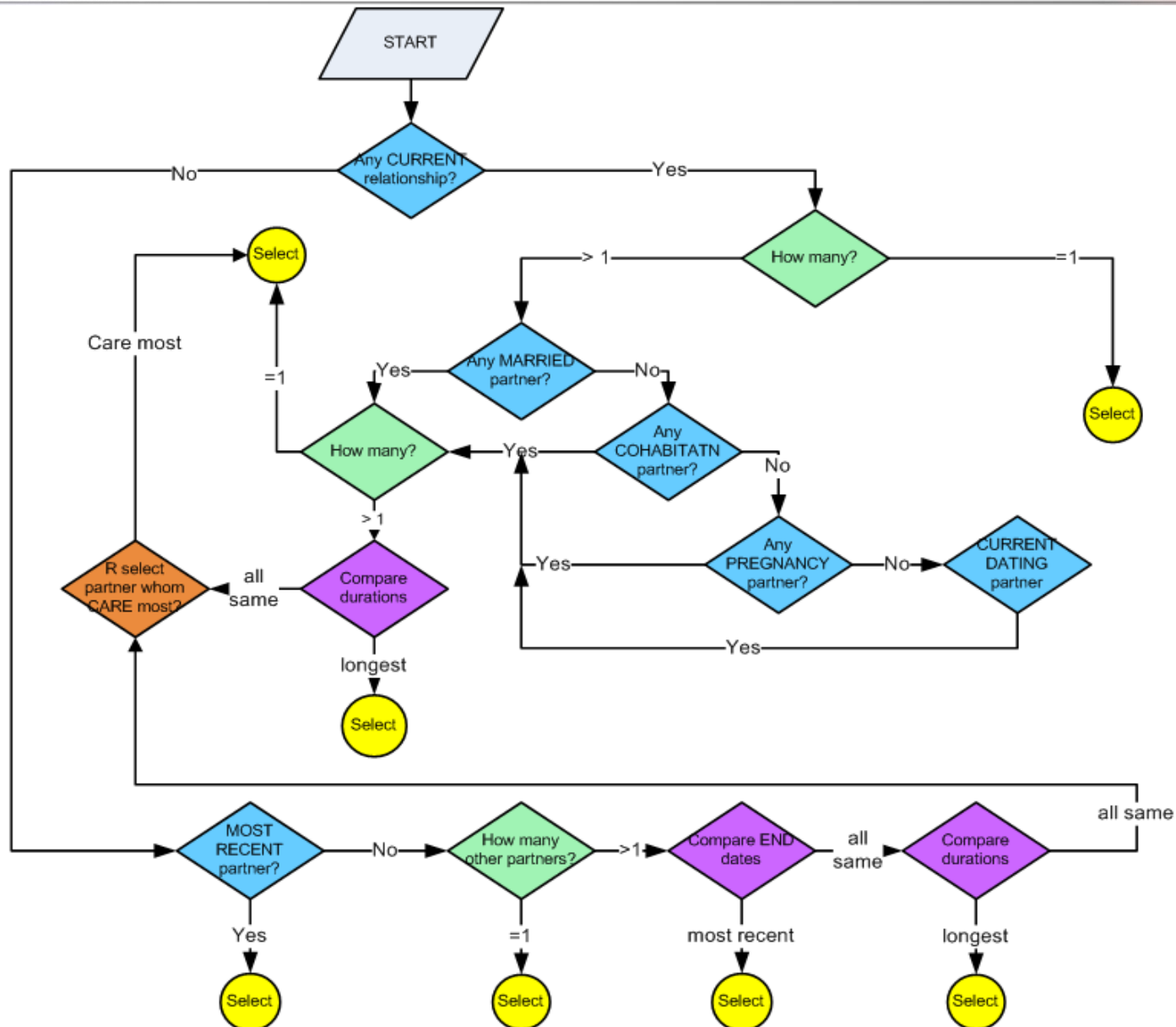
S17: Relationship in Detail

- Among 15,315 respondents who have at least 1 partner record in S16B, 15,216 of them have given details on 1 partner in S17.

■ With details ■ No detail

Criteria to Choose 1 Partner among All Reported
For Gathering Detailed information in S17

Wave IV Romantic/Sexual Relationships
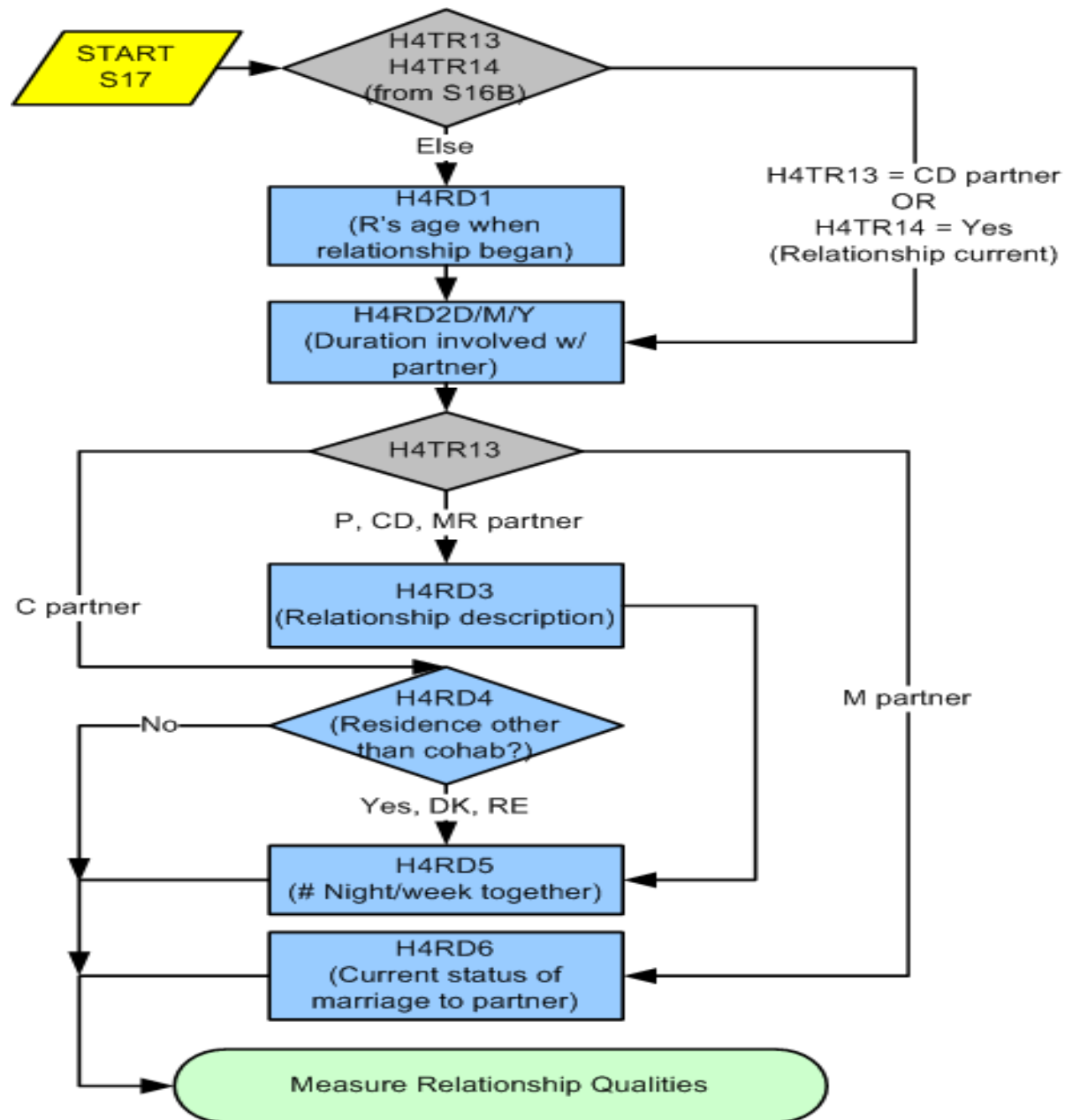
S17: Relationship in Detail

- **Unit of Analysis** – Partner (N=15,216)

- **Record ID:** AID + PTNR_ID

- **Contents:**
  - Age when relationship began
  - Duration involved current partner
  - Relationship description
  - Home other than the one cohabiting
  - # nights together
  - Current marital status to partner
  - Relationship qualities (enjoy ordinary things, handling problems, finances, partner listens, sex life, trust partner, love for partner, happy w/ partner, commitment)
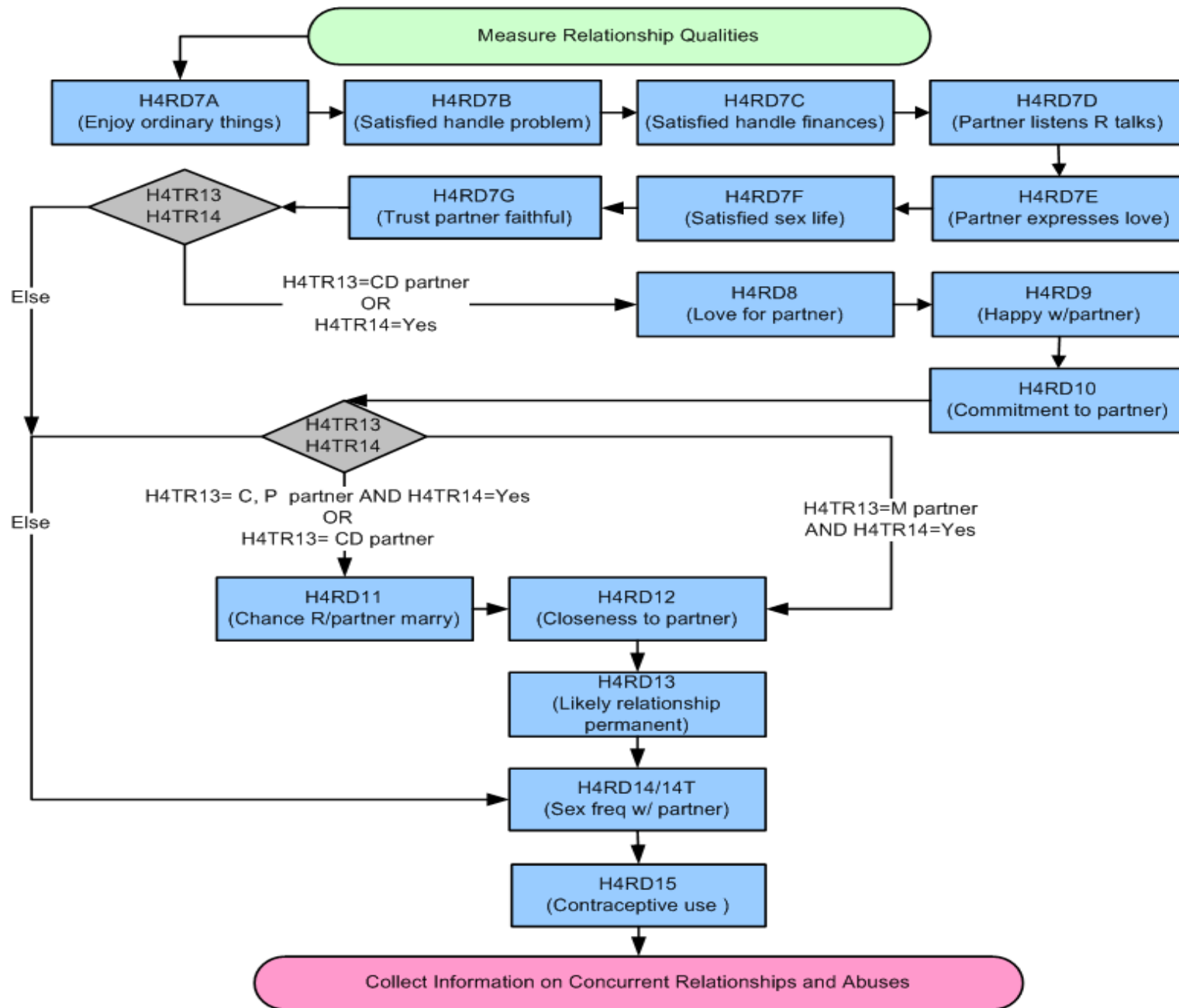
W4 Romantic/Sexual Relationships

S17: Relationship in Detail

- **Contents: (Cont.)**

  - Chance marrying partner
  - Closeness to partner
  - Likelihood relationship permanent
  - Frequency of sexual activities
  - Contraceptives use
  - On both R's and Partner's side:
    - ❑ Concurrent partner?
    - ❑ Any violence?
    - ❑ Slap/hit/kick ?
    - ❑ Injured?
    - ❑ Forced sex?

START
S17

H4TR13
H4TR14
(from S16B)

Else

H4RD1
(R's age when
relationship began)

H4RD2D/M/Y
(Duration involved w/
partner)

H4TR13 = CD partner
OR
H4TR14 = Yes
(Relationship current)

H4TR13

P, CD, MR partner

C partner

H4RD3
(Relationship description)

M partner

H4RD4
(Residence other
than cohab?)

No

Yes, DK, RE

H4RD5
(# Night/week together)

H4RD6
(Current status of
marriage to partner)

Measure Relationship Qualities

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Collect Information on
Concurrent Relationships and Abuses

H4RD16
(Partner has concurrent partners)

H4RD17
(R has concurrent partners)

H4RD18
(Partner violent to R: freq)

H4RD19
(Partner slap/hit/kick R)

Else

Never

H4RD20
(R injured by partner)

H4RD21
(Partner forced sex on R)

H4RD22
(R violent to partner: freq)

H4RD23
(R slap/hit/kick partner)

Else

Never

H4RD24
(Partner injured by R)

H4RD25
(R forced sex on partner)

End S17

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Pregnancy Records

M partners → How many times got/made pregnant by partner? → 1st reported, 2nd reported, Nth reported...

C partners → How many times got/made pregnant by partner? → 1st reported, 2nd reported, Nth reported...

P partners → How many times got/made pregnant by partner? → 1st reported, 2nd reported, Nth reported...

CD partners

MR partner

Loop through M, C, P partners only

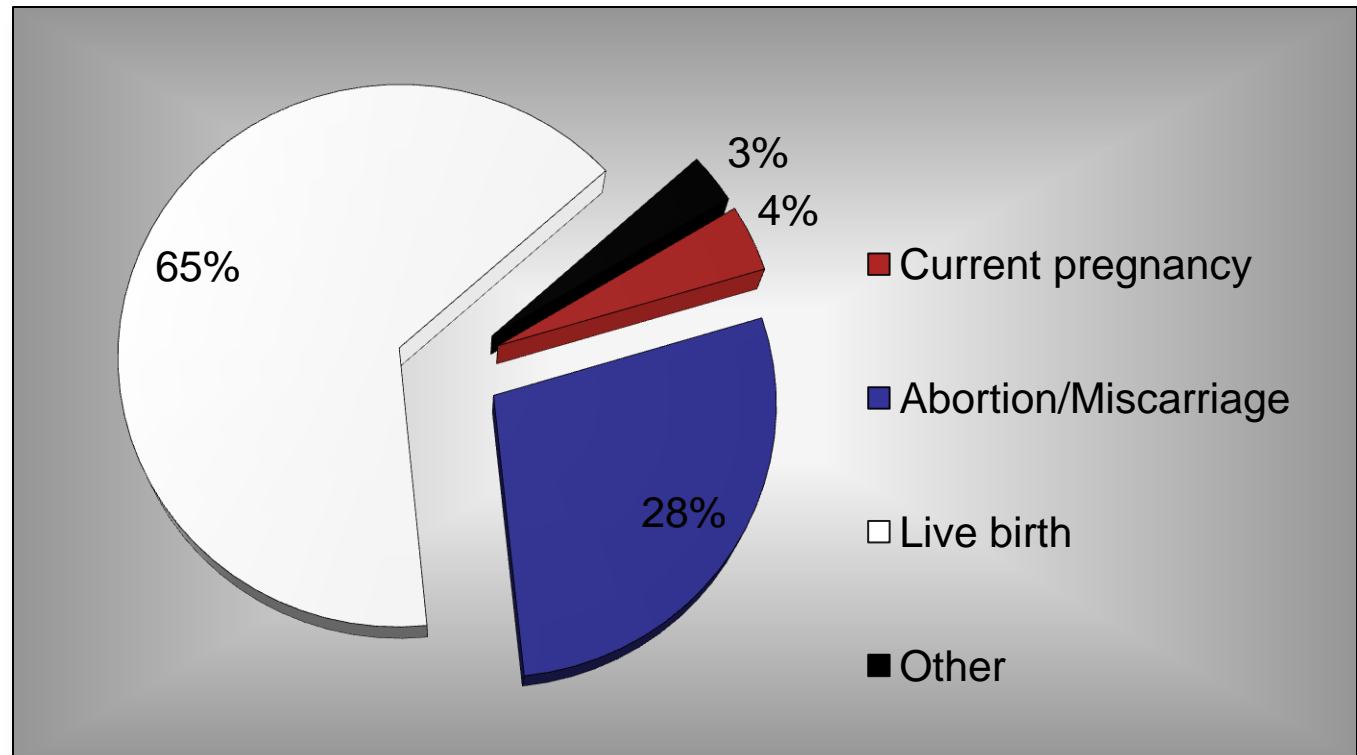## Wave IV Fertility History

S18 Pregnancy Table

- **Unit of Analysis** – Pregnancy (N=21,966)

- **Record ID:** AID + PTNR_ID + PRGNO

- **Contents:** Pregnancy outcomes
  - ❑ Abortion
  - ❑ Ectopic/tubal pregnancy
  - ❑ Miscarriage
  - ❑ Still birth
  - ❑ Live birth (C-section)
  - ❑ Live birth (vaginal delivery)
  - ❑ Pregnancy not ended.

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Wave IV Fertility History

S18 Pregnancy Table

Contents: Pregnancy outcomes

– 4% current pregnancy; 28% abortion/miscarriage; 65% live birth; 3% other
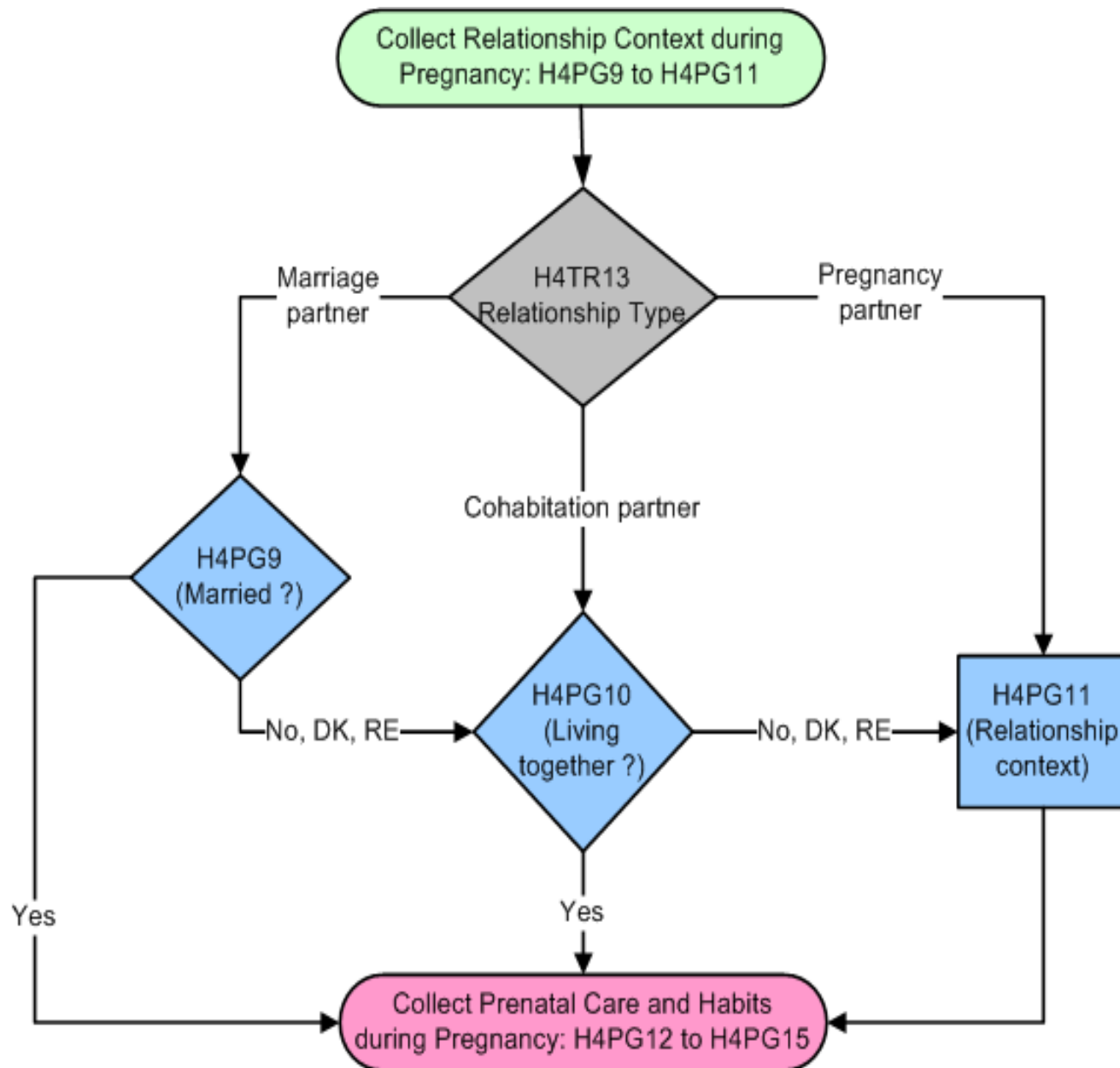
Wave IV Fertility History

S18 Pregnancy Table (Cont.)

- **Contents:**
  - Pregnancy end/due dates
  - # live birth(s) per pregnancy
  - Babies fraternal/identical?
  - Birth control use prior to pregnancy
  - Want child then?
  - Relationship context at pregnancy/birth
  - R/partner went to prenatal care together; # weeks pregnant at 1st visit
  - Drinking and smoking habits during pregnancy
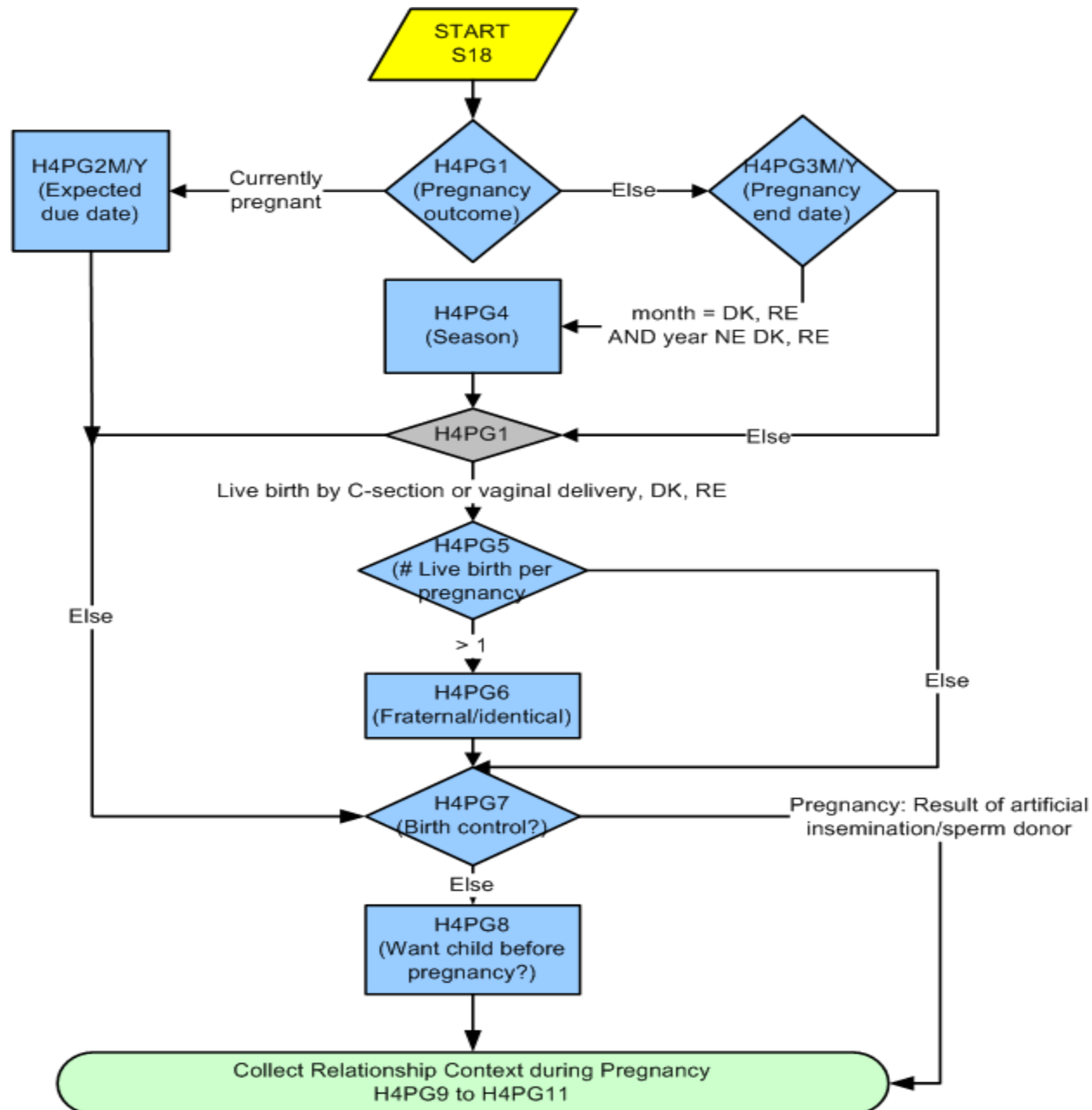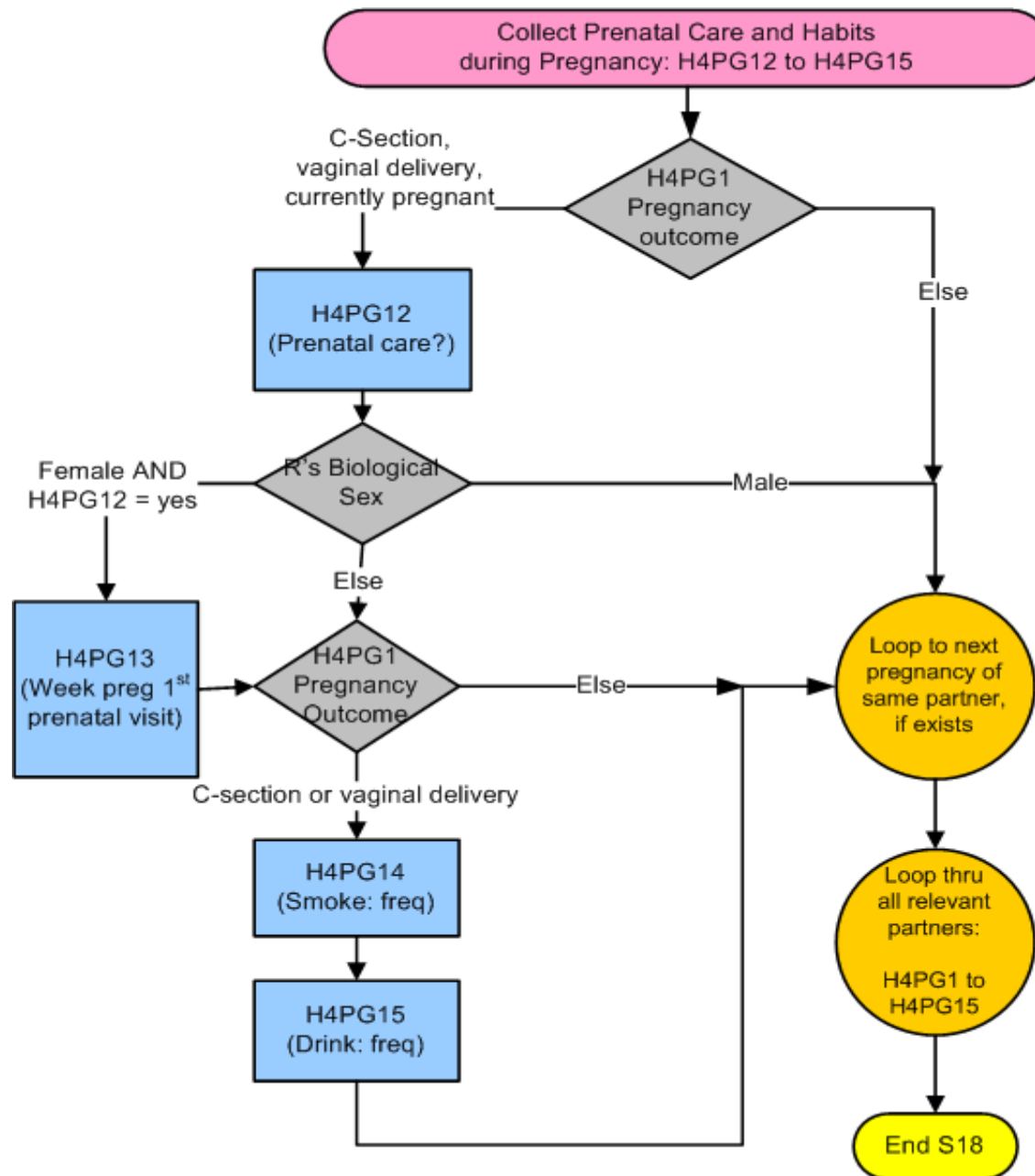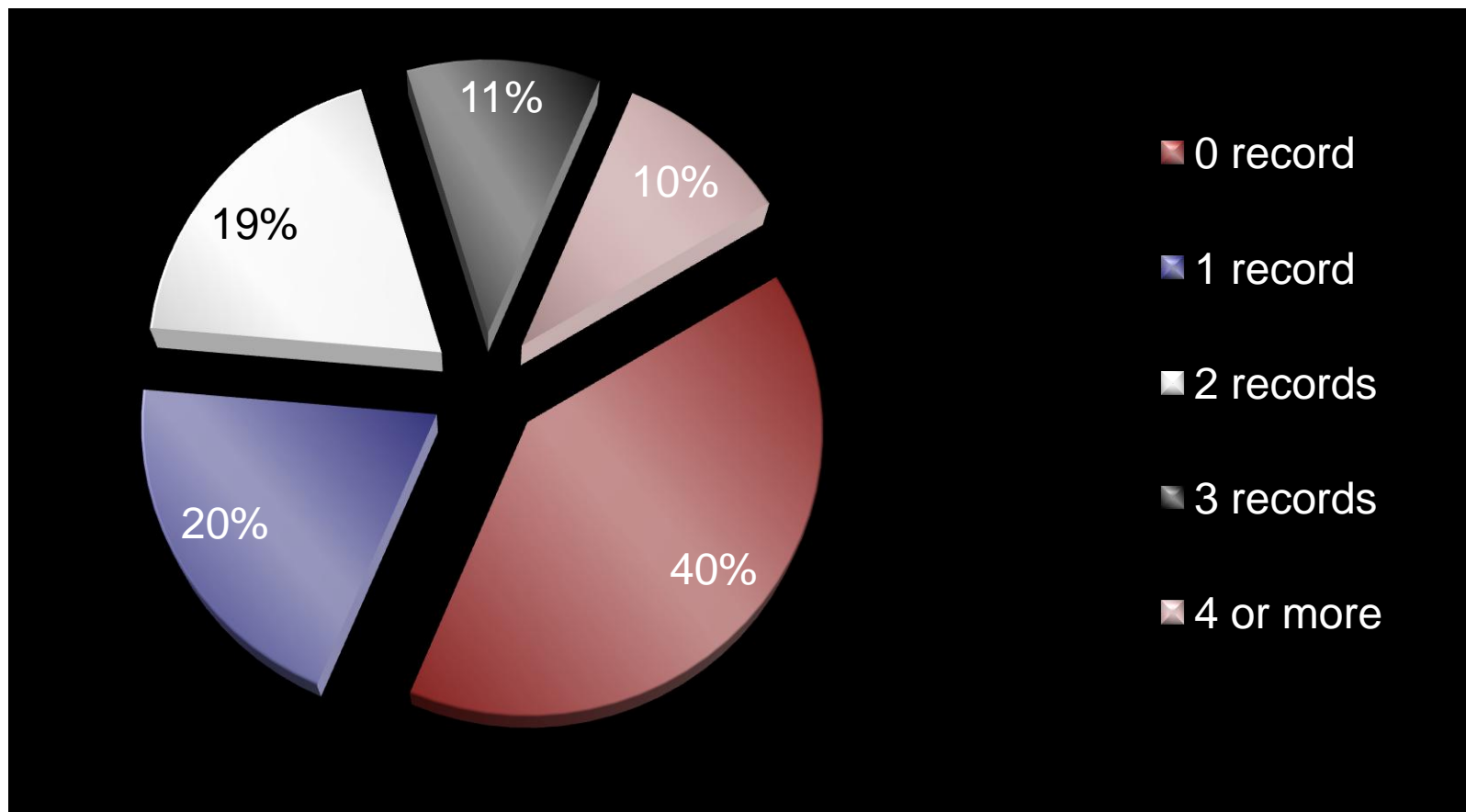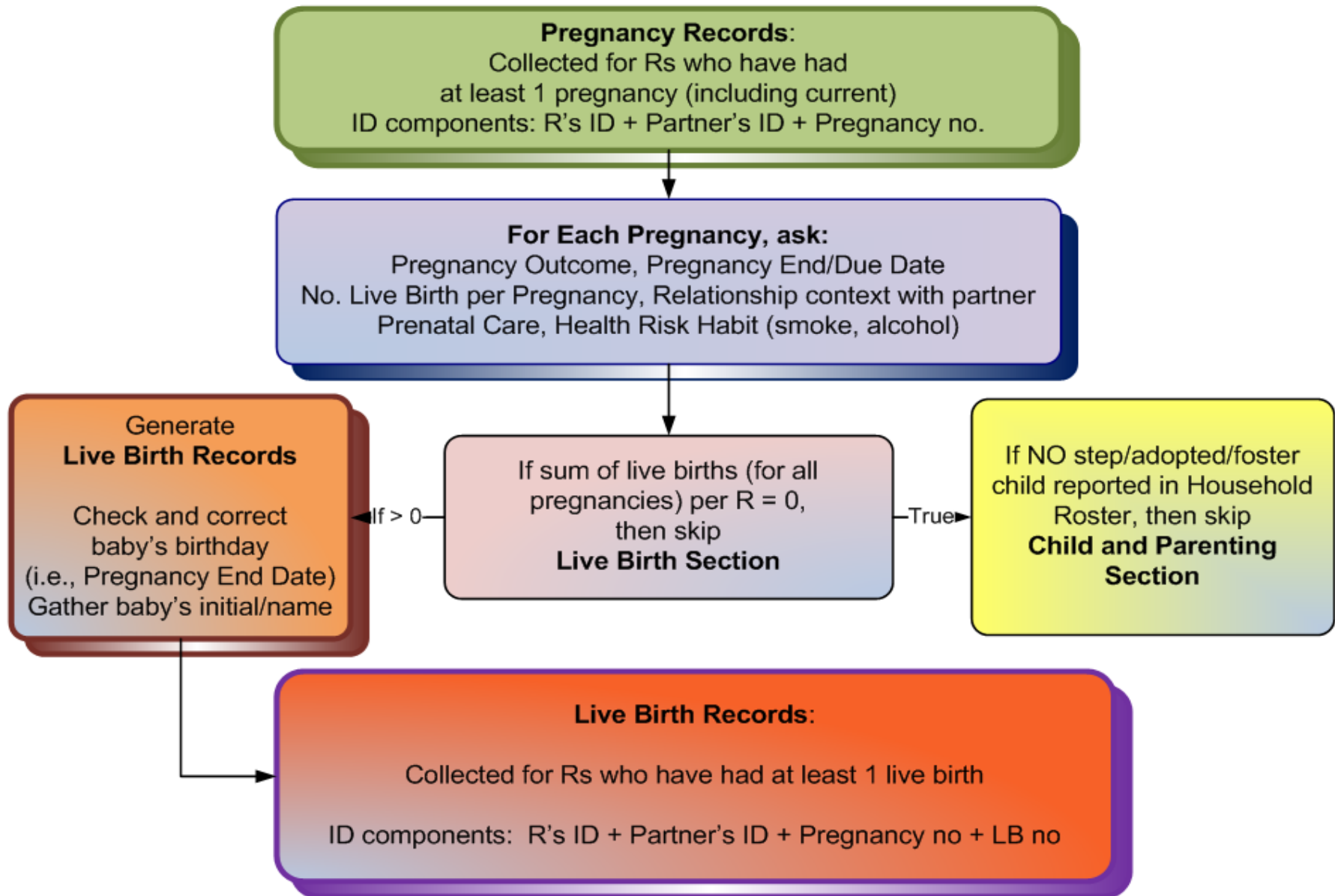
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Wave IV Fertility History

Among 15,701 respondents, 40% reported no pregnancy record in S18; 20% reported 1 pregnancy record; 19% reported 2 records; 11% reported 3 records, and less than 10% reported 4 or more.

Wave IV Hierarchical Data Structure: Pregnancy and Live Birth Records

Pregnancy Records:
Collected for Rs who have had
at least 1 pregnancy (including current)
ID components: R's ID + Partner's ID + Pregnancy no.

For Each Pregnancy, ask:
Pregnancy Outcome, Pregnancy End/Due Date
No. Live Birth per Pregnancy, Relationship context with partner
Prenatal Care, Health Risk Habit (smoke, alcohol)

Generate
Live Birth Records

Check and correct
baby's birthday
(i.e., Pregnancy End Date)
Gather baby's initial/name

If sum of live births (for all
pregnancies) per R = 0,
then skip
Live Birth Section

—If > 0—

—True►

If NO step/adopted/foster
child reported in Household
Roster, then skip
**Child and Parenting
Section**

Live Birth Records:

Collected for Rs who have had at least 1 live birth

ID components: R's ID + Partner's ID + Pregnancy no + LB no

Wave IV Hierarchical Data Structure:
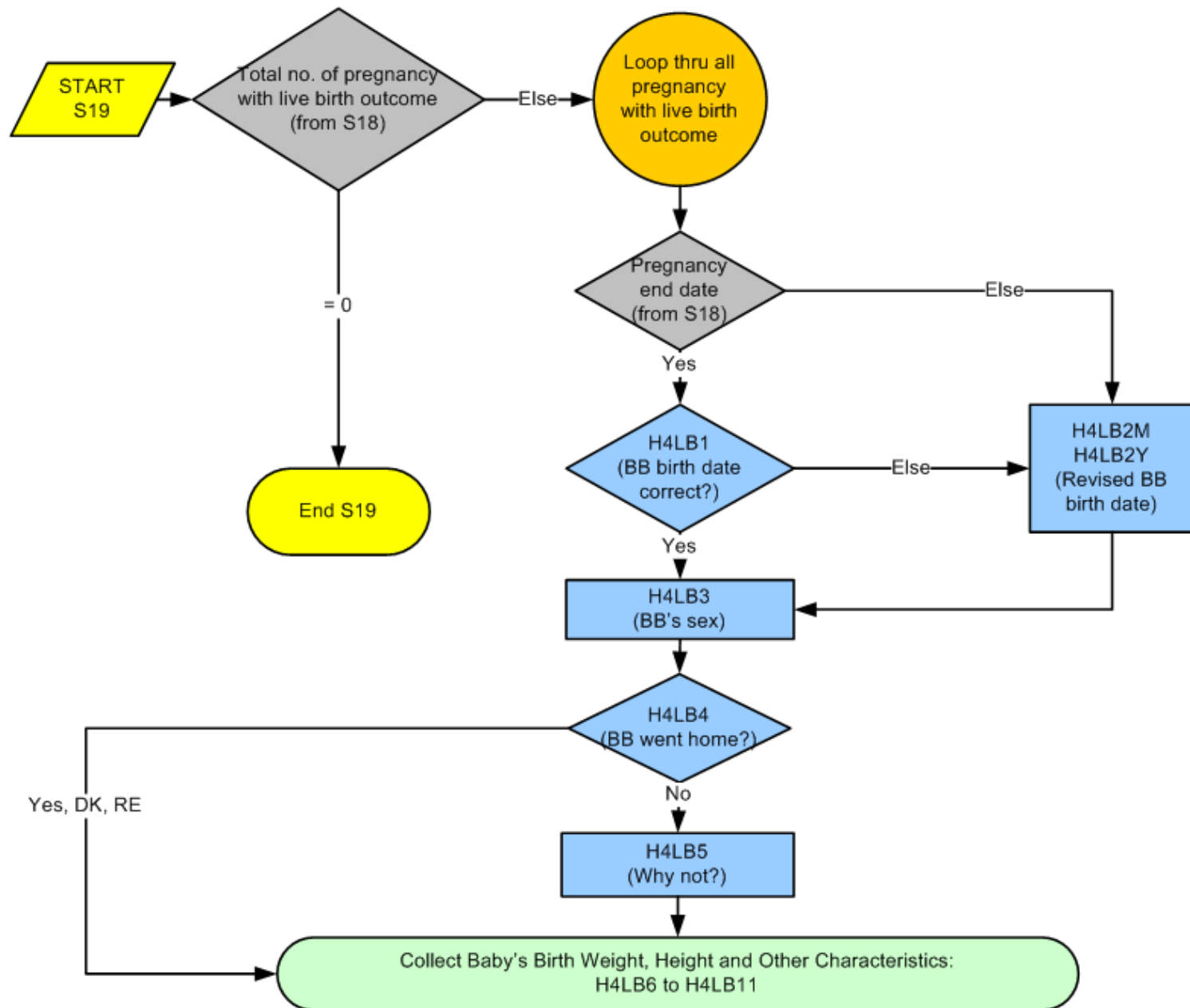## Pregnancy, Live Birth, and Child Records
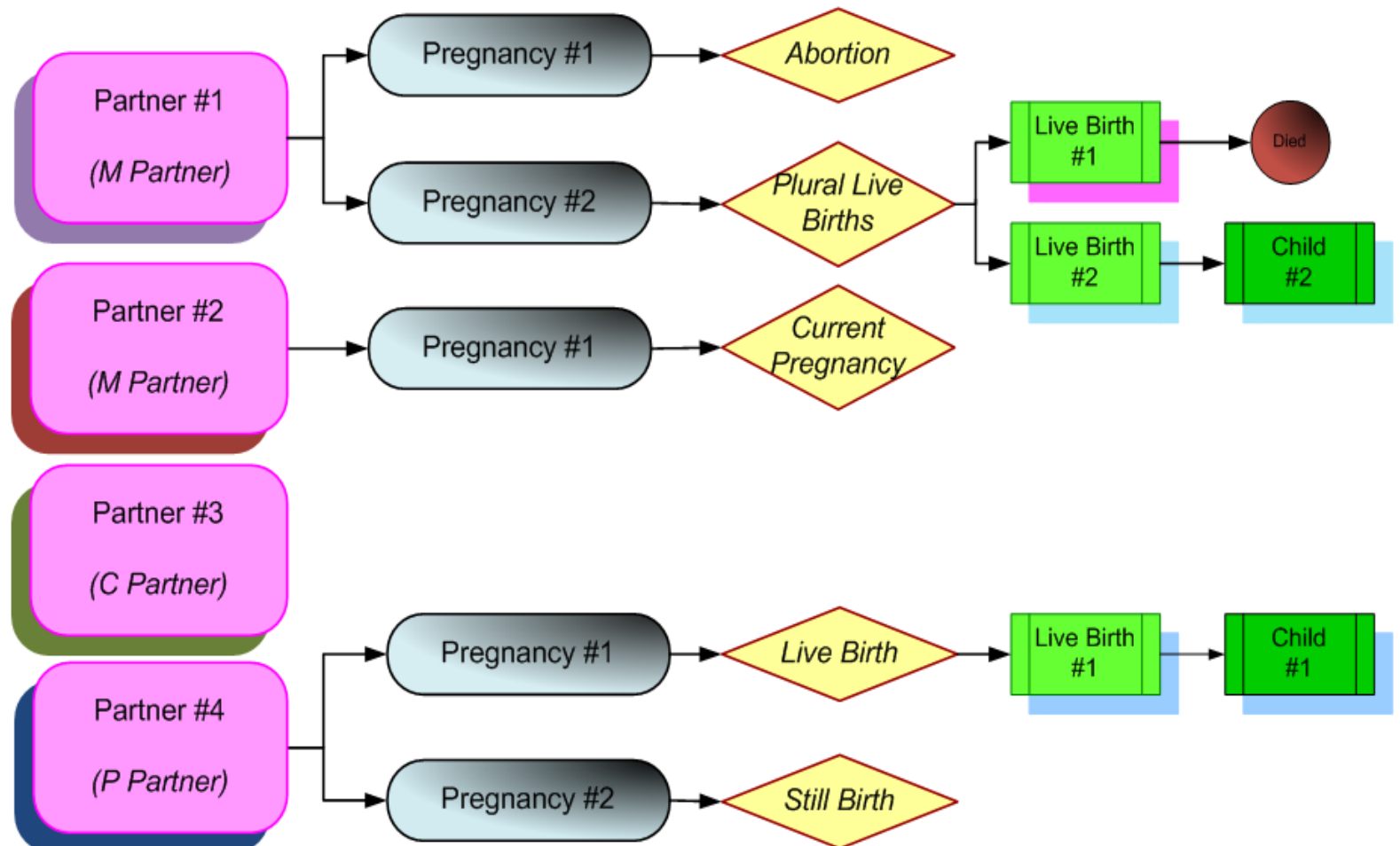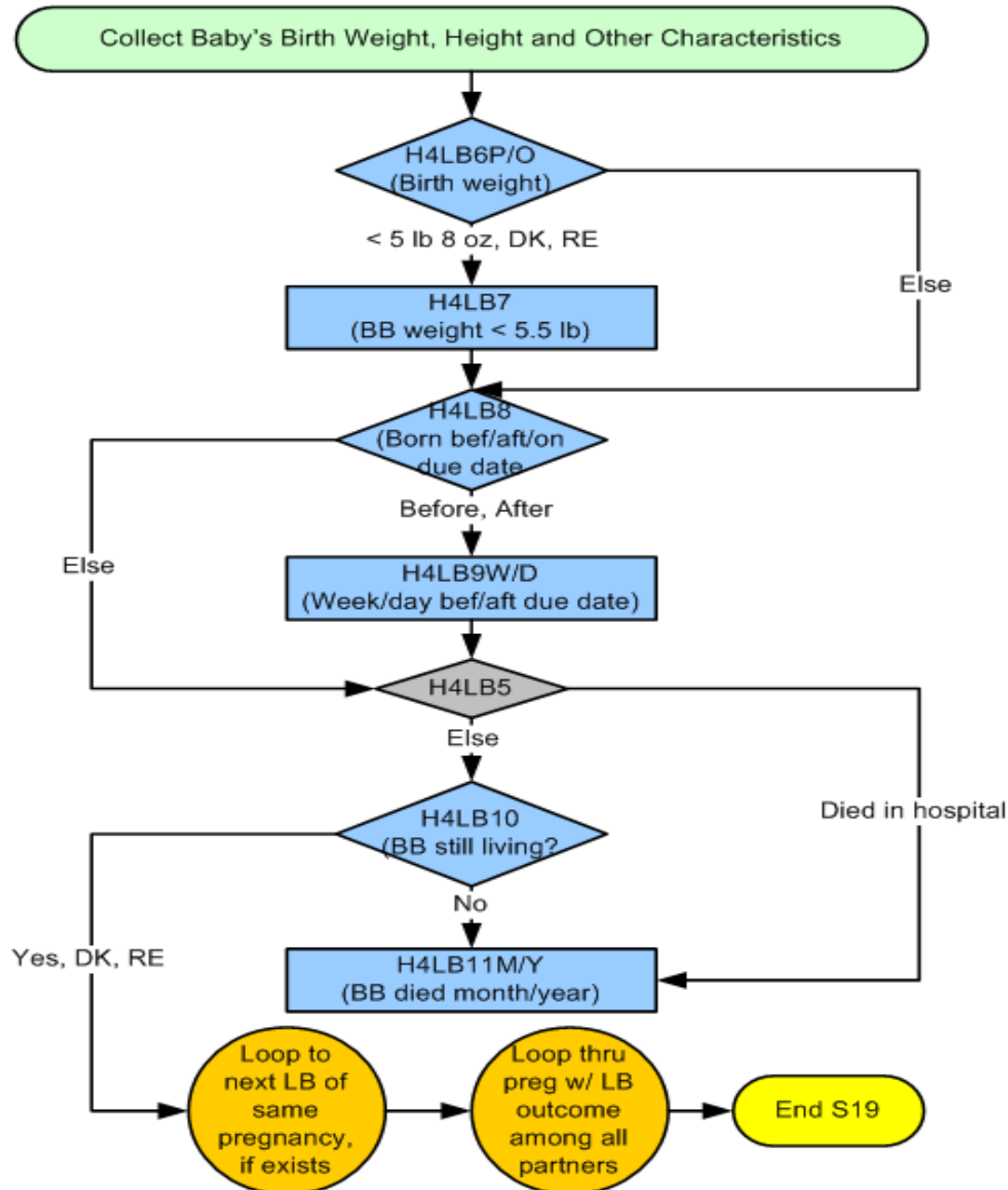
Wave IV Fertility History

S19 Live Births

- **Unit of Analysis** – Live birth (N=14,749)

- **Record ID:** AID + PTNR_ID + PRGNO + LBNO

- **Contents:**
  - Confirm baby's birth date; corrected birth date
  - Baby's biological sex
  - Baby went home; Why not?
  - Birth weight
  - Born before/on/after due date? # weeks/days before/after
  - Still living; When died?

Wave IV Fertility History
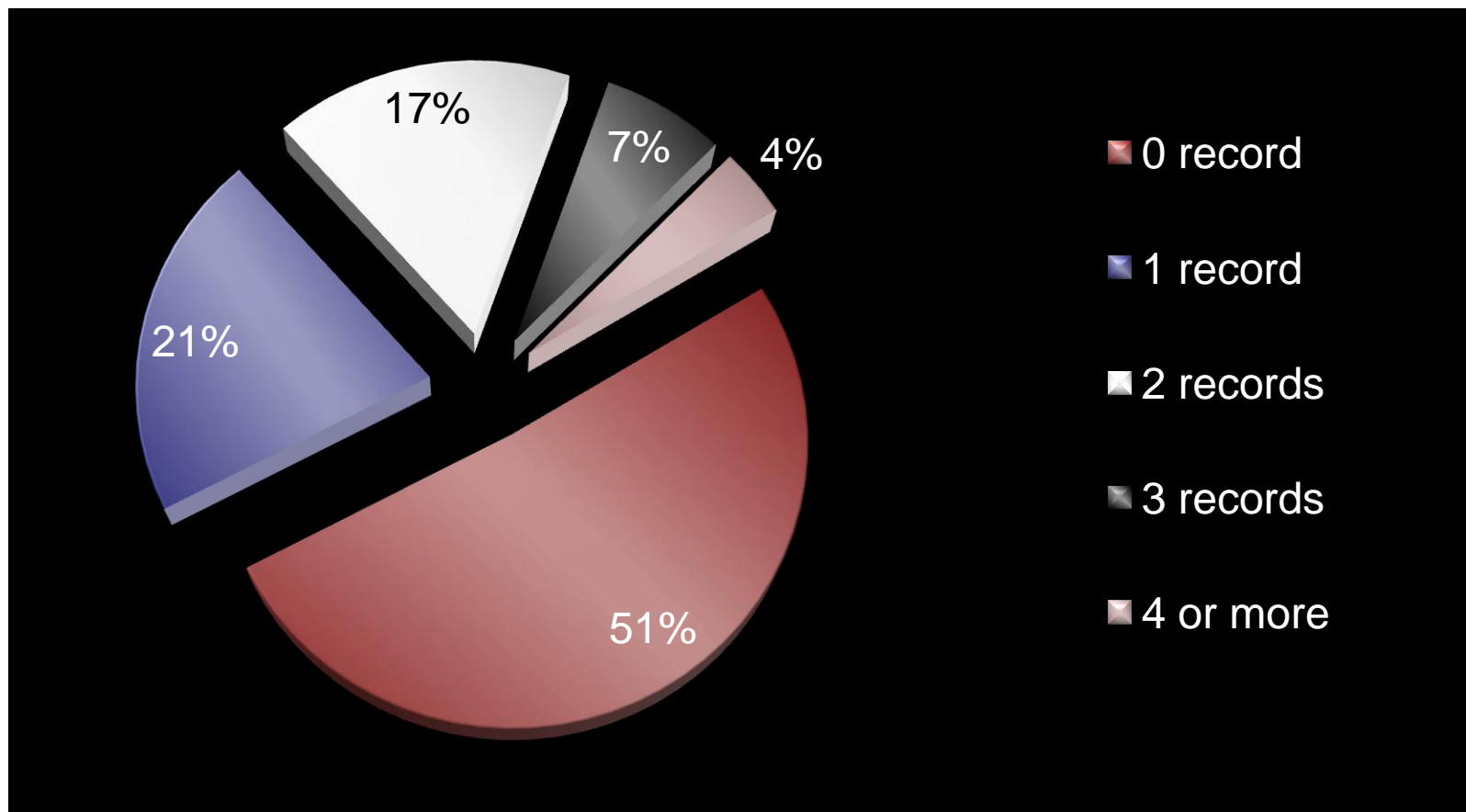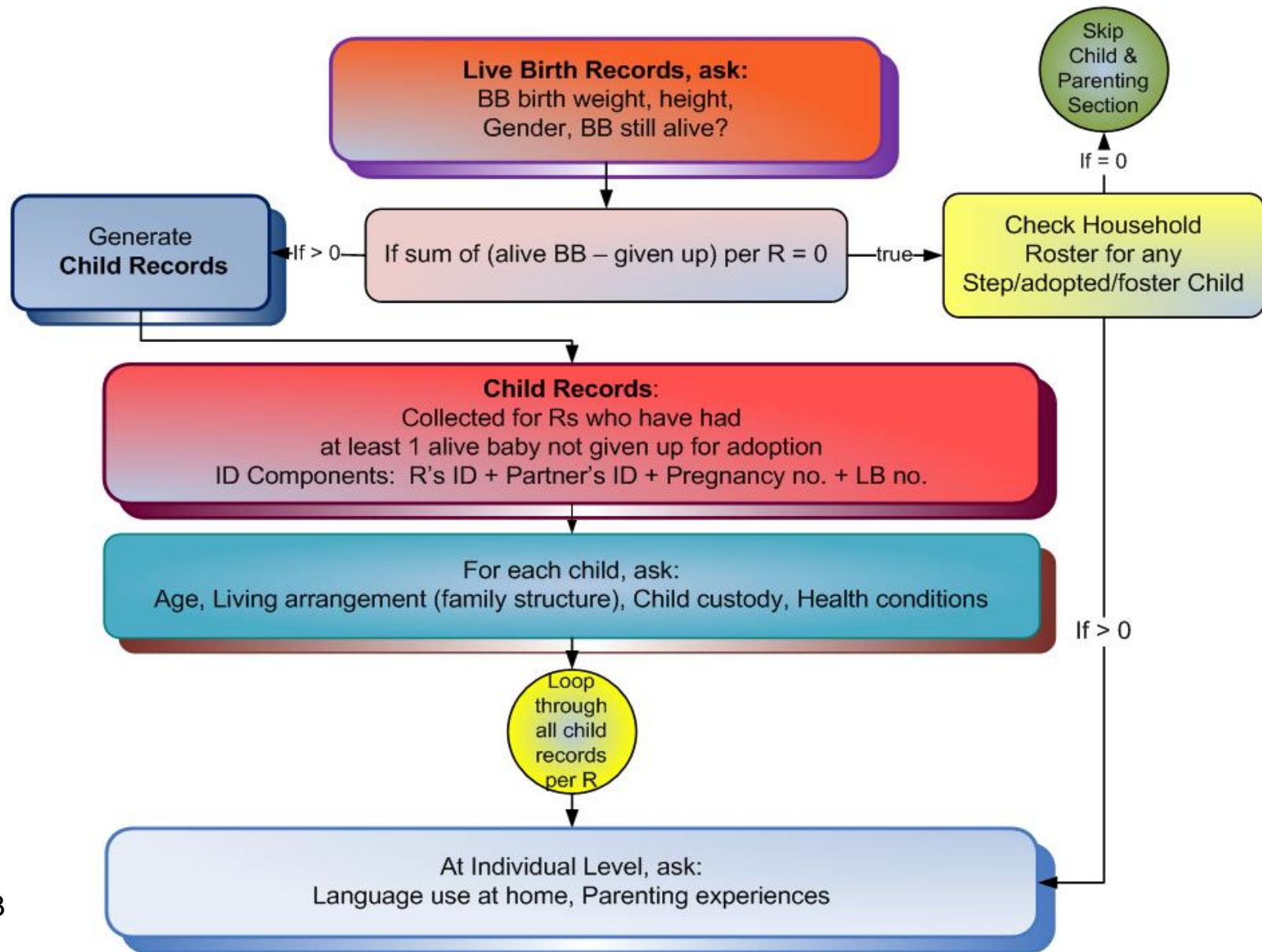
Among 15,701 respondents, 51% reported no live birth record; 21% reported 1 record; 17% reported 2; 7% reported 3; less than 4% reported 4 or more.

17%

7%

4%

21%

51%

- ■ 0 record
- ■ 1 record
- ■ 2 records
- ■ 3 records
- ■ 4 or more

Wave IV Hierarchical Data Structure: Live Birth and Child Records

Live Birth Records, ask:
BB birth weight, height, Gender, BB still alive?

Generate **Child Records** ←If > 0— If sum of (alive BB – given up) per R = 0 —true→ Check Household Roster for any Step/adopted/foster Child

Skip Child & Parenting Section — If = 0

Child Records:
Collected for Rs who have had at least 1 alive baby not given up for adoption
ID Components: R's ID + Partner's ID + Pregnancy no. + LB no.

For each child, ask:
Age, Living arrangement (family structure), Child custody, Health conditions

If > 0

Loop through all child records per R

At Individual Level, ask:
Language use at home, Parenting experiences

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Wave IV Fertility History

S20 Children and Parenting: Part A

- **Unit of Analysis** – Child (N=14,553)

- **Record ID:** AID + PTNR_ID + PRGNO + LBNO

- **Contents:**
  - How old?
  - Child lives with R; Ever?
    - ❑ Last date living together
    - ❑ With whom child lives with
    - ❑ Distance
    - ❑ How often R see child?
  - R lives with partner?
    - ❑ If not, distance

Wave IV Fertility History

S20 Children and Parenting: Part A (Cont.)

- **Contents: (Cont.)**

  - Any custody agreement?
  - How often partner see child?
  - Child's general health
  - Child's specific health problems?

Wave IV Fertility History
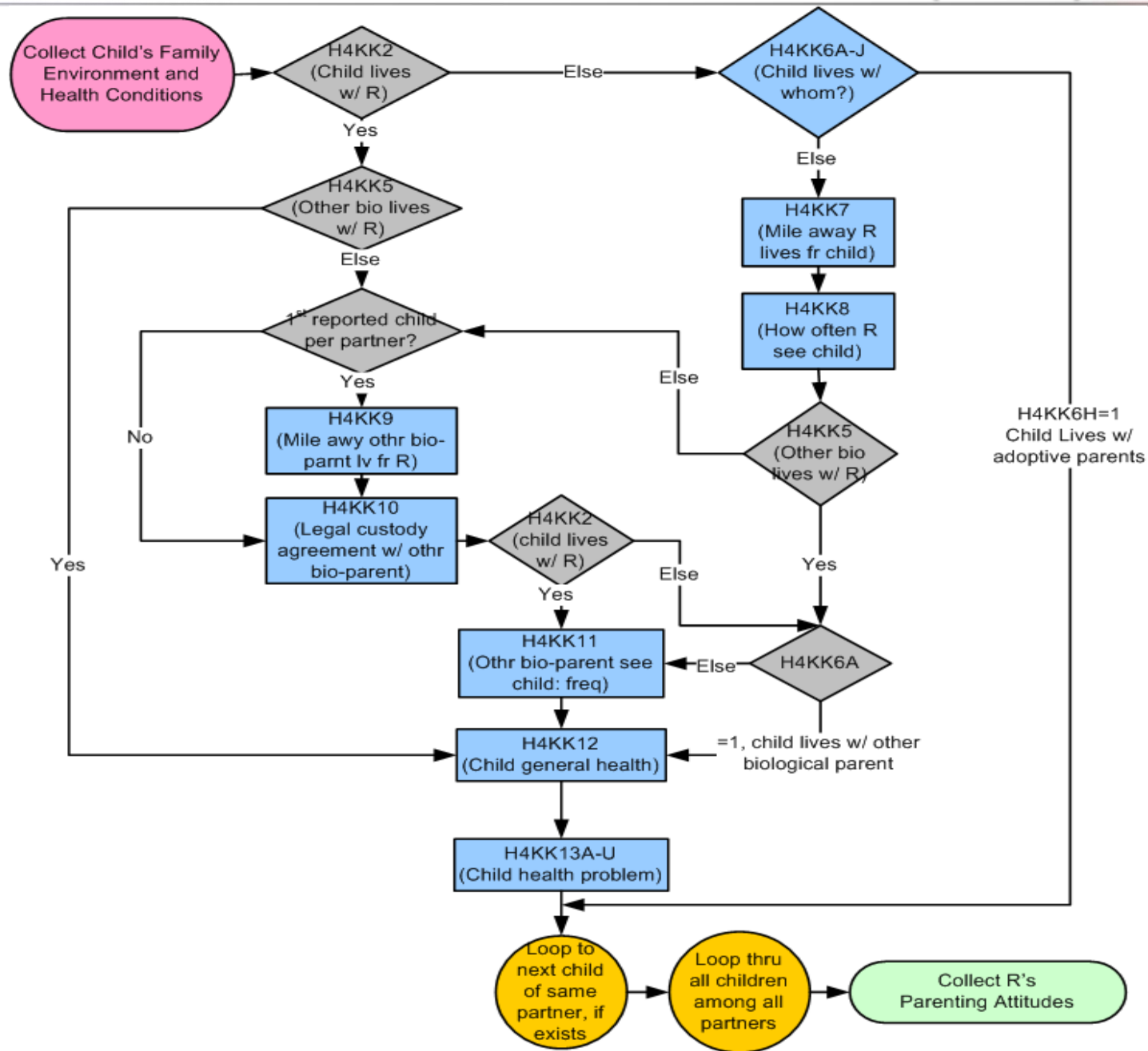
S20 Children and Parenting: Part B

- **Unit of Analysis** – Respondent (N=7,877)

- **Record ID:** AID

- **Contents:**
  - Language speak to child(ren) at home
  - Happy in role as parent
  - R feels close to his/her child(ren)
  - Child(ren): major source of stress
  - R feels overwhelmed by responsibility of being a parent.
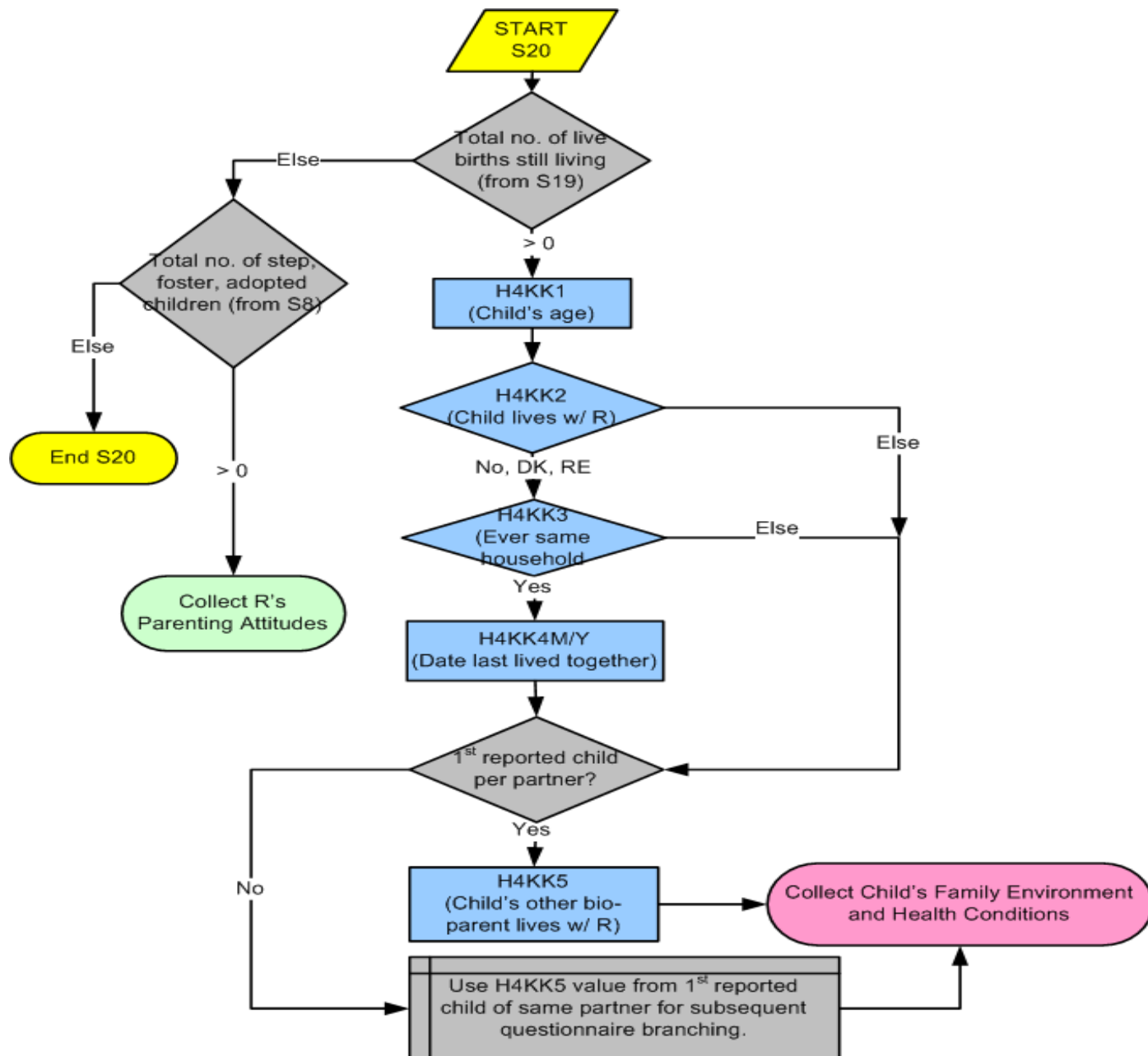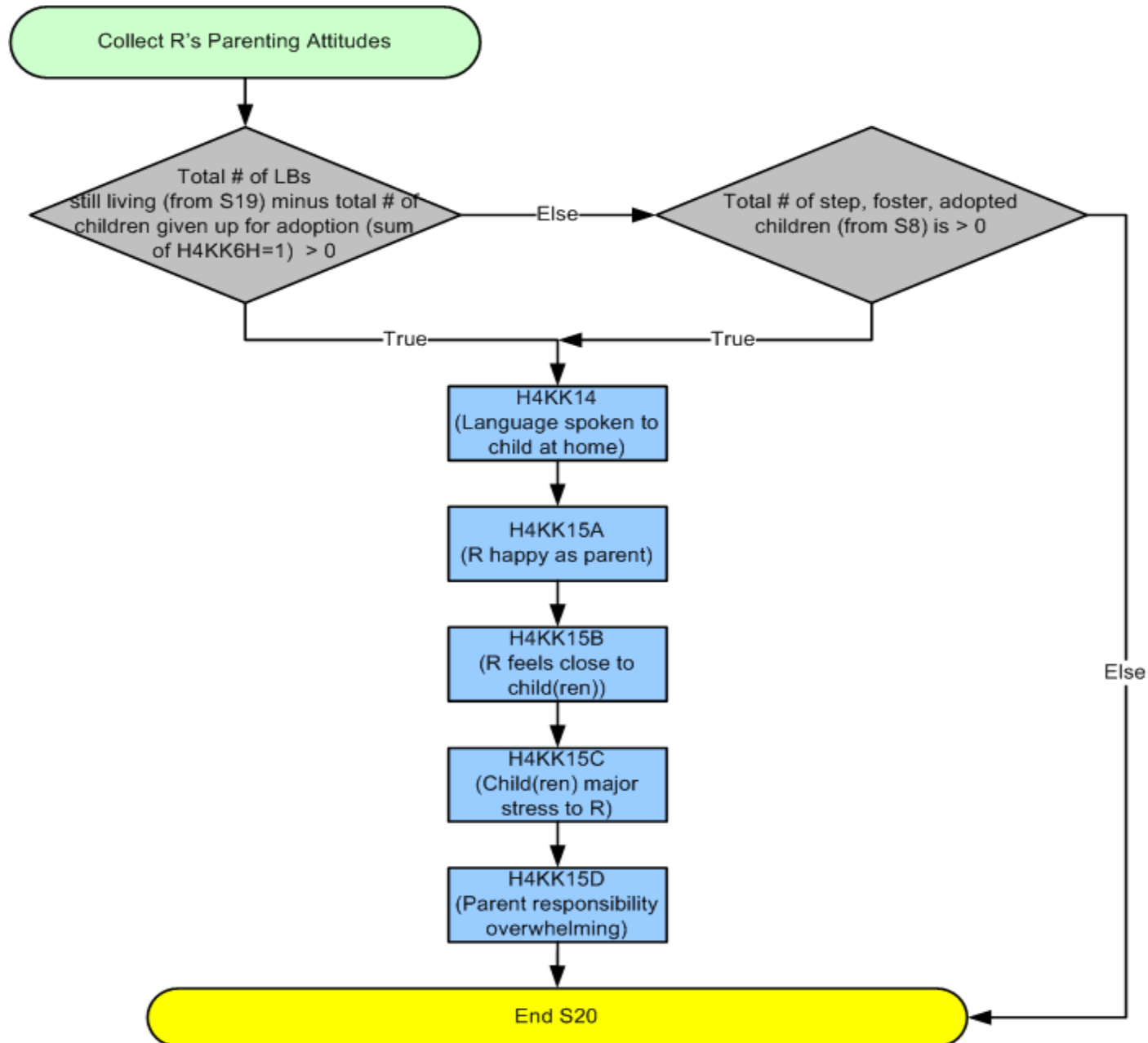
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Wave IV Fertility History

Among 15,701 respondents, 51% reported no child record in S20A; 21% reported 1 child record; 17% reported 2 records; 7% reported 3. Only about 3% reported 4 or more.
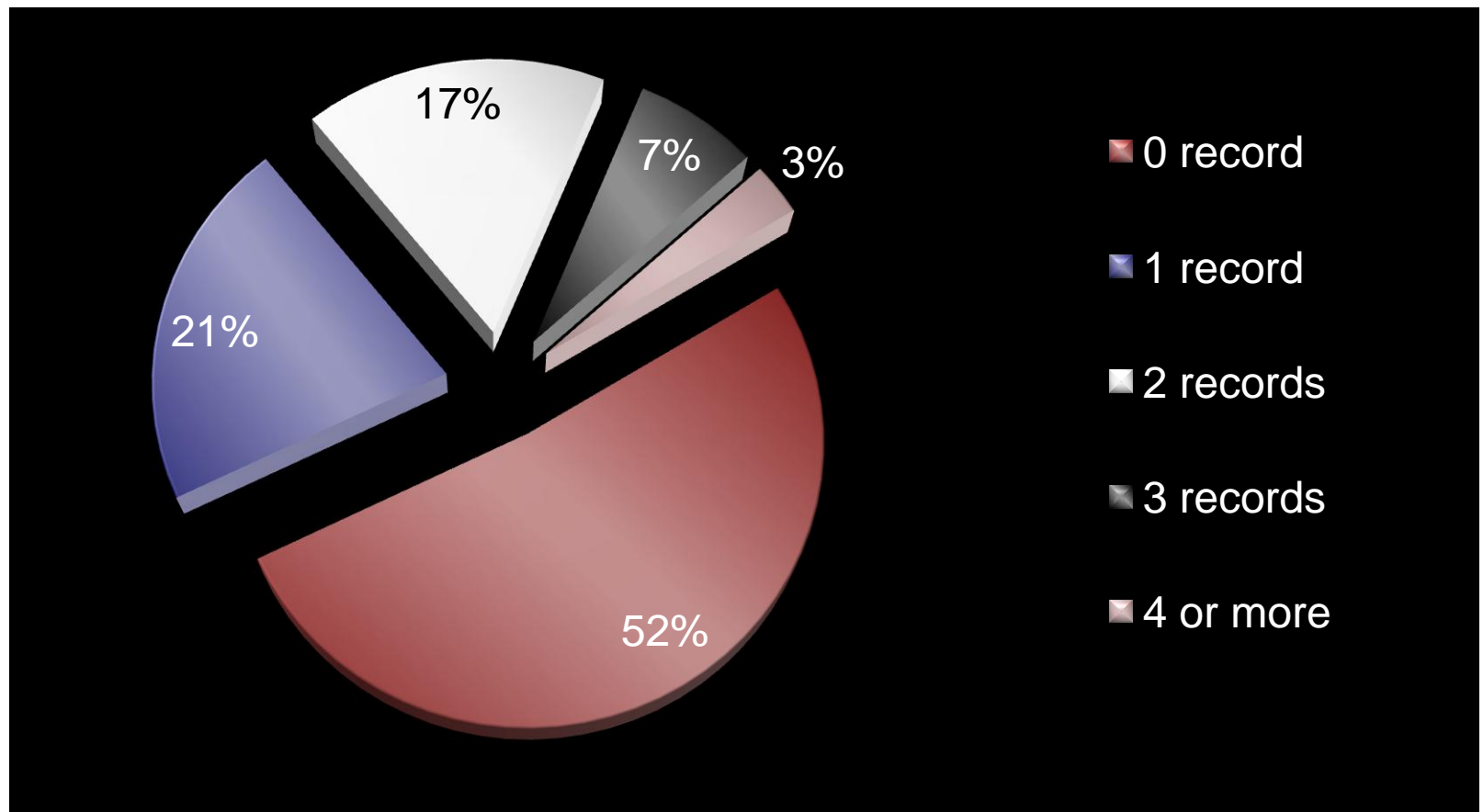
Add Health

Computational and Technical Tips

Data Structure Transformation for Hierarchical Files

1. Construct unique record IDs for each file

Individual ID	*AID*
Relationship ID	*AID* + *PTNR_ID*
Time-segment ID	*AID* + *PTNR_ID* + *H4TR25* + *H4TR26*
Pregnancy ID	*AID* + *PTNR_ID* + *PRGNO*
Live birth ID	*AID* + *PTNR_ID* + *PRGNO* + *LBNO*
Child ID	*AID* + *PTNR_ID* + *PRGNO* + *LBNO*

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Computational and Technical Tips

Data Structure Transformation for Hierarchical Files (Cont.)

2. Lower level file contains IDs of all higher level files

For example:

Pregnancy records contain record IDs of the corresponding individual, relationship, besides its own unique pregnancy record ID.

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Computational and Technical Tips

```
*----------------------------------------------------------*
|   Construct partner record ID and                        |
|   pregnancy record ID (Character vars)                   |
*----------------------------------------------------------*;
data pregrcds (drop=nreln npreg);
    length partner_ID $ 12  preg_ID $ 10  nreln npreg $ 2;

 set pregtable (keep=AID PTNR_ID PRGNO ...);
    if PTNR_ID <=9 then nreln="0"||put(PTNR_ID,1.);
    else nreln= PTNR_ID;
    if PRGNO <=9 then npreg="0"||put(PRGNO,1.);
    else npreg= PRGNO;
    preg_ID     =AID||nreln||npreg;
    partner_ID  =AID||nreln;

label preg_ID="Preg Rcrd ID (AID+PTNR_ID+PRGNO)"
      partner_ID="Partner Record ID (AID+PTNR_ID)"
;
run;
```

Computational and Technical Tips

Compute Summary Counts

1. Describe R by his/her reporting on total numbers of 'event': e.g.,

    a.   Total no. of partners reported by R

    b.   Total no. of pregnancies reported by R

2. Describe R by his/her average reporting on a certain 'event': e.g.,

    a.   Average no. of pregnancy per partner by R

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Computational and Technical Tips

```
*--------------------------------------------------*
|  Total no. of partner records reported by R.     |
*--------------------------------------------------*;
proc sort data=partnrcds; by AID; run;
proc summary data=partnrcds;
 var partnercd;
 by AID;
 output out=sumreltn sum(partnercd)=tot_partnr;
run;


*--------------------------------------------------*
| Total no. of pregnancy records reported by R.    |
*--------------------------------------------------*;
proc sort data=pregrcds; by AID; run;
proc summary data=pregrcds;
 var pregrcd;
 by AID;
 output out=sumpreg sum(pregrcd)=tot_preg;
run;
```

Computational and Technical Tips

```
*-----------------------------------------------------*
| Average no. of pregnancy per partner reported by R.  |
*-----------------------------------------------------*;
proc sort data=individ; by AID; run;
data individ2;
 merge individ (in=one)
       sumreltn(in=two   keep=AID tot_partnr)
       sumpreg (in=three keep=AID tot_preg);
by AID;

  if one then W4main=1;     else W4main=0;
  if two then rpt_partnr=1; else rpt_partnr=0;
  if three then rpt_preg=1; else rpt_preg=0;

label tot_partnr="Total no. of partner rcrds reported by R"
      tot_preg  ="Total no. of preg rcrds reported by R"
      rpt_partnr="Rs who reprted at least 1 partner record"
      rpt_preg  ="Rs who reprted at least 1 preg record"
      W4main    ="Rs who are in W4 Main file"
  ;
```

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Computational and Technical Tips

```
*----------------------------------------------------------*
| Assign 'O' to missing values in total no. of partner     |
| records and in total no. of pregnancy records reported by R.|
*----------------------------------------------------------*;
array ms1[*] tot_partnr tot_preg;
        do i=1 to dim(ms1);
            if ms1[i]=. then ms1[i]=O;
        end;
*----------------------------------------------------------*
| Compute average no. of pregnancy per partner reported by R. |
*----------------------------------------------------------*;
 if tot_partnr ne O then do;
      ave_preg_partnr = tot_preg/tot_partnr;
 end;
label ave_preg_partnr="R's average no. of pregnancy per partner"
;
run;
```

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Computational and Technical Tips

Examples for Different Levels and Units of Analysis, and Hierarchical Files Merging

| Level of analysis | Purpose | Input files | | Data sorted by for computation or merging | Summary statistics/ descriptive per unit of analysis | Files merged by | Output file |
		Unit of analysis	Unique ID per unit of analysis				Unit of analysis
Respondent	Describe respondent by a summary of partner characteristics. e.g., Total no. of partners reported by respondent	Respondent	AID	AID	Per respondent e.g., Count of partners	AID	Respondent
		Partner	AID, PTNR_ID	AID			
Respondent	Describe respondent by a summary of pregnancy history. e.g., Total no. of pregnancies with abortion as outcome	Respondent	AID	AID	Per respondent e.g., Count of pregnancies ended in abortion	AID	Respondent
		Pregnancy	AID, PTNR_ID, PRGNO	AID			

Computational and Technical Tips

Level of analysis	Purpose	Input files		Data sorted by for computation or merging	Summary statistics/ descriptive per unit of analysis	Files merged by	Output file
		Unit of analysis	Unique ID per unit of analysis				Unit of analysis
Respondent	Describe respondent by a summary of live birth history. e.g., Total no. of live births born outside marriage	Respondent	AID	AID	Per respondent e.g., Flag live births born while R and partner not married and count up total	AID	Respondent
		Live birth	AID, PTNR_ID, PRGNO, LBNO	AID			
Partner	Associate respondent's characteristics to partners. e.g., Identify hetero/homosexual relationship	Partner	AID, PTNR_ID	AID	Spread R's information onto each partner record e.g., spread R's biological sex onto partner record and compare	AID	Partner
		Respondent	AID	AID			

Computational and Technical Tips

Level of analysis	Purpose	Input files		Data sorted by for computation or merging	Summary statistics/ descriptive per unit of analysis	Files merged by	Output file
		Unit of analysis	Unique ID per unit of analysis				Unit of analysis
Partner	Associate pregnancy characteristics to partners. e.g., No. of non-birth pregnancies associated with each partner	Partner	AID, PTNR_ID	AID, PTNR_ID	Per partner e.g., Flag pregnancies with non-birth outcomes and count up total.	AID, PTNR_ID	Partner
		Pregnancy	AID, PTNR_ID, PRGNO	AID, PTNR_ID			
Partner	Associate partner demographics w/ partner detailed information in S17.	Partner	AID, PTNR_ID	AID, PTNR_ID	By partner	AID, PTNR_ID	Partner
		Partner	AID, PTNR_ID	AID, PTNR_ID			

Some General Advice

- Do not assume:

  Read as much as you can

  Add Health Code Books

  – Add Health documentation on website information, documents, codebooks
  – Subscribe to Add Health list server
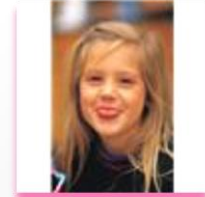 – Check out publications using Add Health data

Some General Advice

- Spend time: To know your data

    – Examine question branching; Test skipped patterns; Check value ranges; Further clean your data for odd/extreme cases. Know your variables!

    – Check your programs: When in doubt, list your cases and examine.

    – Do logical checks and analytical checks on your results. You can never be too careful!

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Some General Advice

- Take small steps: Think through your results
    - Do thorough preliminary analysis before going into sophisticated multivariate advanced statistics.

    - Take pains to document your data and programming decisions.

    - Organize your programs and results, perhaps using a electronically searchable research management database.

Questions
and
Answers