

## PIN Study Data Documentation -- Tracking Systems

### CLINIC TRACKING DATASETS

Two sets of files contribute to the tracking database: (1) the “original” files entered at the clinics from review of the charts, and (2) the “constructed” files that are generated after the original files are run through several programs to construct variables.

The original files (TRACKER.SD2 at ACC and TRWAKE1.SD2 at Wake) are the datasets that are created from the data entry screens updated by the clinic staff. The constructed files (TRACKER2.SD2 and its archive ARCHACC.SD2 at ACC; TRWAKE2.SD2 and its archive ARCHWAKE.SD2 at Wake) are documented below; all of the variables in the original files are also included in these constructed files plus the constructed variables.

If data are missing, they generally have a value of 9, 99, 999, etc.

Var name	Type	Len	SAS Label	Comments
ADDR1	Char	35	Mailing Address #1	
ADDR2	Char	35	Mailing Address #2	
APGAR1	Num	3	1-minute Apgar Score	from delivery log
APGAR5	Num	3	5-minute Apgar Score	from delivery log
APPTAMPM	Num	3	Appointment in A.M. or P.M.	
APPTDATE	Num	8	Appointment w/in 24-29 wks: SAS date	SAS date format; constructed from APPTMON, APPTDAY, APPTYR
APPTDAY	Num	3	Appt Date near 28 wk visit: Day	
APPTMON	Num	3	Appt Date near 28 wk visit: Month	
APPTTIME	Num	8	Clinic Appointment Time	SAS time format
APPTYR	Num	3	Appt Date near 28 wk visit: Year	2-digit year
ARCHIVE	Num	3	Record archived from active file	1=moved to archive, this variable only on archived files
BESTEDC	Num	8	Best EDC for Study: SAS date	SAS date format; constructed as best EDC from LMP and ultrasound; uses LMP if difference between LMP & ultrasound EDC's are 14 days or less, else uses ultrasound
BIRTHLBS	Num	3	Birthweight -- lbs	<i>only on Wake dataset</i> ; these two vars are used to calculate the BIRTHWT variable in grams
BIRTHOZS	Num	3	Birthweight -- ounces	
BIRTHWT	Num	8	Birth Weight (in grams)	from delivery log; AT WAKE: calculated from BIRTHLBS and BIRTHOZS

Var name	Type	Len	SAS Label	Comments
CARESITE	Num	3	Prenatal Care Site	100=Wake HD 200=Wake AHEC 800=ACC, unknown resident clinic 852=ACC, resident clinic, low risk 853=ACC, resident clinic, teens 854=ACC, resident clinic, high risk 857=ACC, resident clinic, preterm labor 859=ACC, Univ. Obstetric Group (UOG, private patients) 876=ACC, resident clinic, alcohol/drug abuse
CHARMED	Char	7	Wake HD med.rec.no. as char var	<i>only on Wake dataset</i>
CITY	Char	15	City	
CLINFOLL	Num	3	Clinic follow-up status	used by clinic staff to determine if they need to see the subject again 1=successfully recruited but clinic staff need to see again 2=did not come (DNC) to scheduled appointment 3=consent obtained but not full recruitment 4=consent & DNC (2 & 3)
COMMENT	Char	28	Comment on any subject matters	<i>only on Wake dataset</i> ; used for administrative comments while recruiting
COMPCODE	Num	3	Completion Code	see table of codes below
COUNTY	Num	3	County	see table of codes below
DELIVAMP	Num	3	Delivery in AM or PM	from delivery log
DELIVDAT	Num	8	Delivery date: SAS date	SAS date format; constructed from DELIVMON, DELIVDAY, DELIVYR
DELIVDAY	Num	3	Delivery day	from delivery log
DELIVMON	Num	3	Delivery month	from delivery log
DELIVTIM	Num	8	Delivery time	SAS time format
DELIVYR	Num	3	Delivery year	from delivery log; 2-digit year
DELVCODE	Num	3	Delivery code  NOTE: some ineligible PIN Study women may have delivery codes because they were in the Iron Study	1=delivered at study hospital 2=delivered at another known site 3=delivery site not determined delivery data only being obtained for eligible COMPCODES; if woman was eligible, was not successfully recruited, and did not delivery at the study hospital, she is not contacted for delivery info

Var name	Type	Len	SAS Label	Comments
				4=SAB/TAB (added for Iron Study 9/25/98)
DELVLOC	Char	45	Delivery location--not clinic site	should be completed when DELVCODE=2
DIETQ	Num	3	Diet Questionnaire completed	0=no 1=yes
DIFFDAYS	Num	8	Difference btwn LMP and U/S EDC's	
DVCODE	Num	3	Diet validation recruitment code	uses same codes as for COMPCODE, see table of codes below
DVRECDAT	Num	8	Date recruited into diet validation	SAS date
DVRECDAY	Num	3	Diet validation recruitment day	
DVRECMON	Num	3	Diet validation recruitment month	
DVRECRUR	Num	3	Diet validation recruiter ID	
DVRECYR	Num	5	Diet validation recruitment year	
DVSTOP	Num	3	Diet validation, 1= stopped involvement	1 = no longer in the diet val study due to refusal, loss of pregnancy or other reason
EDDFLAG	Char	13	Comparison of LMP and Ultrasound EDC	
EDDLMP	Num	8	LMP date plus 280 days	SAS date format; see BESTEDC for better EDC date
ENTRDATE	Num	8	Date entered into tracking system	SAS date format; implemented in 6/96, some dates reconstructed, but many missing from records before 6/96
FNAME	Char	15	First Name	
FOLLCALL	Num	8	Date followup call to be done: SAS date	SAS date format
FOLLOWUP	Num	8	Random number for followup status	see memos on sampling fractions; sampling fraction changed ~11/1/96 to increase the number of controls specified
FOLLWEEK	Num	8	Followup gest week for sample subset	values 29-36 to identify the gestational week at which the control is called for a follow-up interview; 9999 = not a control
GENDER	Num	3	Baby's gender	from delivery log 1=male 2=female

Var name	Type	Len	SAS Label	Comments
HAIRCOLL	Num	3	Hair collected in hospital	<i>Added 11/96 at Wake, 2/97 at UNC</i> 1=yes 2=patient refused 3=MD refused 4=excluded, hair weave 5=excluded, hair too short 6=discharged, unable to collect 7=delivery not identified in time ? 8=collecting 2 hair specimens (1 for DV and 1 for PIN case/control)
HAIRID	Num	3	Recruiter's ID, in-hospital hair study	<i>Added 11/96 at Wake, 2/97 at UNC</i>
HAIRQ	Num	3	Hair questionnaire completed	<i>Added 11/96 at Wake, 2/97 at UNC</i> 1=yes
HOMEPHON	Char	12	Home Phone Number	<i>Added 11/96 at Wake, 2/97 at UNC</i>
HOSPROOM	Char	6	Hospital room # at delivery	<i>Added 11/96 at Wake, 2/97 at UNC</i>
HOSRECNO	Num	8	Hospital Record Number	<i>Only on Wake dataset; used at Wake AHEC and Hospital</i>
IRONCODE	Num	3	Iron Study-recruitment completion code	<i>Only at Wake for Iron Supplement Study, added 3/97</i>
IRONDATE	Num	8	Date IRONGRUP assigned	<i>Only at Wake for Iron Supplement Study, added 3/97; SAS date</i>
IRONEXCL	Num	3	Iron Study-exclusion codes from TRWAKE1	<i>Only at Wake for Iron Supplement Study, added 3/97</i>
IRONEXIT	Num	3	Iron: finished gathering data on woman	<i>Only at Wake for Iron Supplement Study, added 3/97</i>
IRONFERR	Num	4	Iron Study-ferritin measure (ug/l)	<i>Only at Wake for Iron Supplement Study, added 3/97</i>
IRONFLDT	Num	3	Iron: date del rpt was printed for obs	<i>Only at Wake for Iron Supplement Study, added 6/15/98</i> flag var that indicates the observation was printed after delivery and won't be printed again
IRONGRUP	Num	3	Iron supplement group assignment	<i>Only at Wake for Iron Supplement Study, added 3/97 -- codes are in supplementary documentation for the Iron Study</i>
IRONGWK	Num	3	Gestational age in weeks for iron study	<i>Only at Wake for Iron Supplement Study, added 3/97</i> calculated at time of supplement group assignment
IRONHGB	Num	4	Iron Study-hemoglobin measure (g/dl)	<i>Only at Wake for Iron Supplement Study, added 3/97</i>

Var name	Type	Len	SAS Label	Comments
IRONVIST	Num	8	Iron Study-SAS Date of phys exam visit	<i>Only at Wake for Iron Supplement Study, added 3/97</i> SAS date format
IRONXCL2	Num	3	Iron Study-exclusion codes from TRWAKE2	<i>Only at Wake for Iron Supplement Study, added 3/97</i>
IRONXDTE	Num	8	Date IRONEXCL assigned	<i>Only at Wake for Iron Supplement Study, added 3/97</i> SAS date format
LIVECHLD	Num	3	# of Living Children	
LMPDATE	Num	8	Last Menstrual Period Date: SAS date	SAS date format; constructed from LMPMON, LMPDAY, LMPYEAR; use STARTPRG as best beginning of pregnancy
LMPDAY	Num	3	Last Menstrual Period Date: Day	
LMPMON	Num	3	Last Menstrual Period Date: Month	
LMPYEAR	Num	3	Last Menstrual Period Date: Year	4-digit year
LNAME	Char	25	Last Name	
MARITAL	Num	3	Mother's Marital Status	1=single 2=married 3=widowed 4=divorced 5=separated
MEDNO1	Char	3	1st part of HD med.rec.no	<i>Only on Wake dataset; used to sort the medical record # in the same way as the records are stored at the Wake Health Dept.</i>
MEDNO2	Char	2	2nd part of HD med.rec.no	
MEDNO3	Char	2	3rd part of HD med.rec.no	
MEDRECNO	Num	8	Medical Record Number	at Wake, this is the Wake Health Dept. #; see HOSRECNO
MOMAGE24	Num	8	Mother's age at 24 weeks gestation	used to exclude women under age 16; requires that there be a BESTEDC in order to calculate the 24-week date
MOMBDATE	Num	8	Mother's Date of Birth: SAS date	SAS date format; constructed from MOMBMON, MOMBDAY, MOMBYEAR
MOMBDAY	Num	3	Mother's Date of Birth: Day	
MOMBMON	Num	3	Mother's Date of Birth: Month	
MOMBYEAR	Num	3	Mother's Date of Birth: Year	4-digit year
MOMEDUC	Num	3	Mother's Education	GED coded as 12 years

Var name	Type	Len	SAS Label	Comments
MOMRACE	Num	3	Mother's Race	1=white 2=black 3=Asian/Pacific Islander 4=Hispanic 5=American Indian 6=other
NOEDCCK	Num	3	Stop cking discrepancy of LMP & U/S EDC	used to exclude report check of EDC discrepancies of > 14 days from LMP and ultrasound sources
OTHRPHON	Char	12	Alternate Phone Number	
OUTCOME	Num	3	Pregnancy Outcome	from delivery log 1=congenital anomaly 2=respiratory or fetal distress 3=stillbirth 4=live birth
PATID	Num	8	Study ID	1nnnn at UNC; 2nnnn at Wake
PHONINFO	Char	45	Information about when to call	
PRETERM	Num	8	36 weeks, 6 days after best LMP:SAS date	SAS date format; constructed from STARTPRG + 258; indicates when the baby would be considered preterm (used to compare against actual delivery date)
PREVABOR	Num	3	# of Previous Abortions (spon & induce)	was replaced by a breakdown of spontaneous and induced; data available only on early UNC obs
PREVINDU	Num	8	# of Previous Induced Abortions	see PREVABOR comments
PREVPREG	Num	3	# of Previous Pregnancies	
PREVPTRM	Num	3	# of Previous Preterm	
PREVSPON	Num	8	# of Previous Spontaneous Abortions	see PREVABOR comments
PREVTERM	Num	3	# of Previous Term	
RECRUDAY	Num	3	Date Recruited: Day	
RECRUITD	Num	8	Date Recruited: SAS date	SAS date format; constructed from RECRUMON, RECRUDAY, RECRUYR; recruitment started 8/95 at ACC, 2/96 at Wake
RECRUITR	Num	3	Recruiter's ID Number	
RECRUMON	Num	3	Date Recruited: Month	
RECRUYR	Num	3	Date Recruited: Year	4-digit year
STARTPRG	Num	8	Best LMP for Study: SAS date	SAS date format; constructed from

Var name	Type	Len	SAS Label	Comments
				BESTEDC-280; used to calculate all other dates
STATE	Char	2	State	2-digit postal code
STPRGFLG	Num	3	Flag for STARTPRG: 1=invalid date	<i>Only at Wake for Iron Supplement Study, added 3/97</i>
ULTRADAY	Num	3	Date Ultrasound Done: Day	
ULTRAEDC	Num	8	EDC date on chart from U/S: SAS date	SAS date format; constructed from USEDCCMON, USEDCCDAY, USEDCCYR; see BESTEDC for better EDC date
ULTRAMON	Num	3	Date Ultrasound Done: Month	
ULTRAYR	Num	3	Date Ultrasound Done: Year	4-digit year
ULTRDATE	Num	8	Date Ultrasound taken: SAS date	SAS date format; constructed from ULTRAMON, ULTRADAY, ULTRAYR
URINCOLL	Num	3	Urine collected in hospital	<i>Added 11/96 at Wake, 2/97 at UNC</i> 1=yes 2=patient refused 3=MD refused 6=unable to collect in time 7=delivery not identified in time 8=diet val, collect only hair, no urine
USEDCCDAY	Num	3	U/S EDC day	Stopped using these 3 vars 10/96 (see ULTRDATE +USGSTWKS & USGSTDAY); dropped from active tracking file; still in archive  4-digit year
USEDCCMON	Num	3	U/S EDC month	
USEDCCYR	Num	3	U/S EDC year	
USGSTDAY	Num	3	Gestational age at U/S, days	Added to tracking file ~10/21/96, replacing entry of ULTRAEDC by the clinic staff; ULTRAEDC now calculated from USGSTWKS, USGSTDAY, and ULTRDATE
USGSTWKS	Num	3	Gestational age at U/S, weeks	
WEEK13	Num	8	13 weeks after best LMP: SAS date	SAS date format; constructed from STARTPRG + 91 [only in ACC file for diet val study]
WEEK24	Num	8	24 weeks after best LMP: SAS date	SAS date format; constructed from STARTPRG + 168
WEEK26	Num	8	26 weeks after best LMP: SAS date	SAS date format; constructed from STARTPRG + 182
WEEK28	Num	8	28 weeks after best LMP: SAS date	SAS date format; constructed from STARTPRG + 196

<b>Var name</b>	<b>Type</b>	<b>Len</b>	<b>SAS Label</b>	<b>Comments</b>
WEEK29	Num	8	29 weeks after best LMP: SAS date	SAS date format; constructed from STARTPRG + 203
WEEK30	Num	8	30 weeks after best LMP: SAS date	SAS date format; constructed from STARTPRG + 210
WEEK31	Num	8	31 weeks after best LMP: SAS date	SAS date format; constructed from STARTPRG + 217
WEEK32	Num	8	32 weeks after best LMP: SAS date	SAS date format; constructed from STARTPRG + 224
WEEK33	Num	8	33 weeks after best LMP: SAS date	SAS date format; constructed from STARTPRG + 231
WEEK34	Num	8	34 weeks after best LMP: SAS date	SAS date format; constructed from STARTPRG + 238
WEEK35	Num	8	35 weeks after best LMP: SAS date	SAS date format; constructed from STARTPRG + 245
WEEK36	Num	8	36 weeks after best LMP: SAS date	SAS date format; constructed from STARTPRG + 252
WEEK37	Num	8	37 weeks after best LMP: SAS date	SAS date format; constructed from STARTPRG + 259
WEEK40	Num	8	40 weeks after best LMP: SAS date	SAS date format; constructed from STARTPRG + 280
WEEK19_6	Num	8	19 wks,6 days after best LMP: SAS date	<i>Only at Wake for Inron Supplement Study, added 3/97; SAS date format; constructed from STARTPRG + 139</i>
WEEK29_6	Num	8	29 wks,6 days after best LMP: SAS date	SAS date format; constructed from STARTPRG + 209
WORKPHON	Char	12	Work Phone Number	
ZIP	Num	8	ZIP	



**Completion codes (COMPCODE) values and diet validation study (DVCODE) entered by recruiters into the tracking system.**

1.	successfully recruited	eligible
2.	expecting multiples	ineligible
3.	non-English speaking	ineligible
4.	incompetent, hearing impaired	ineligible
5.	doesn't participate in studies (refused)	eligible
6.	doesn't have time to be interviewed (refused)	eligible
7.	didn't want extra specimens collected (refused)	eligible
8.	other refusal	eligible
9.	physician consent denied	eligible
10.	doesn't plan to continue prenatal or deliver at site	ineligible
11.	never showed up in 24-29 week study window (or showed up after 11 weeks for Dietval study)	ineligible
12.	recruiters too busy, missed subject	eligible
13.	pregnancy ended before an eligible clinic visit (never showed up in clinic during 24-29 week window) including live births, stillbirths, spontaneous & induced abortions)	ineligible
14.	misidentified (e.g., UOG patient before we recruited at UOG; not pregnant)	ineligible
15.	age < 16 at 24 weeks gestation	ineligible
16.	patient agreed to participate, unable to collect genital tract swabs (medical constraint)	eligible
17.	when patient is recruited, she has no phone available at any location	ineligible
18.	the 28-week specimens were collected at outlying clinic (Wake satellites)	ineligible
19.	no LMP date or ultrasound dates were available to date the pregnancy	ineligible
20.	used for DVCODE when woman says she'll agree to PIN protocol, but not to diet validation protocol	
90.	used for DVCODE when woman says she'll agree to PIN protocol but not to diet validation	
96.	had been recruited with specimens taken but had no phone for interview (code deals with early women who later would not have been recruited and would have been a compcode=17)	ineligible
97.	entered in Wake or ACC/UOG database and potential subject got past study window before recruitment started; also includes women entering the study window after 7/1/98 recruitment ended at Wake;	ineligible

also used in summer 1999 at ACC for DVCODE when recruitment into the diet validation study had to be suspended due to lack of DV interviewing staff	
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**Notes on eligibility criteria**

1. Women who are coming to the prenatal clinic for the first time during our recruitment window will not be recruited because Wake schedules new patients during different clinic times and coverage of those clinics will not be feasible. If a woman comes in for her first visit during the recruitment window and then does not come back for a second visit during the window, she will be considered ineligible, use Code 11.
2. Category 11 above should be used if the woman never showed up during the window. If the patient showed up at the beginning of the window but the recruiter didn't get around to recruiting the patient (because the recruiter assumed the patient would be back for a later appointment in the window), and then the woman never comes back within the window. Code 12 should be used in that instance.
3. Before the UOG was added to the study, if a private patient (UOG) was inadvertently entered into the tracking system or if a woman is first seen in the resident's clinic and then it is determined that she is eligible for care in the UOG clinics, use Code 14.

**IN ADMINISTRATION OFFICE DATASET**

The following is information about the tracking file that is maintained by the Interview Coordinator at the PIN administrative office at CPC. It includes the status of the various telephone interviews--the Main Q, the Still-Pregnant Follow-Up Q, and the After-Delivery Follow-Up Q; the instruments received at CPC from the field and from the women (Diet Q, Life Events Q, and Medical Abstracts). These data are stored in TRACKER3.SD2.

<b>Var name</b>	<b>Type</b>	<b>Len</b>	<b>SAS Label</b>	<b>Comments</b>
DIETQCPC	Num	3	Diet Q received at CPC from clinic	this is a check of the DIETQ var in the clinic tracking files, 1=received
FOLCOMP1	Num	3	Still-preg follow-up Q completion code	
FOLCOMP2	Num	3	After delivery follow-up Q completion code	
FOLLDAT1	Num	8	Still-preg follow-up Q completion date	SAS date
FOLLDAT2	Num	8	After delivery follow-up Q completion date	SAS date
HAIRQ	Num	3	Hair Q received at CPC from clinic	if hair not collected but Hair Q was done, code as 9, don't enter Hair Q, put Hair Q in woman's folder with note on it
LIFECOMP	Num	3	Life Events Q completion code	1=received
LIFEVENT	Num	8	Life Events Q date received at CPC	SAS date
MAINCOMP	Num	3	Main Q completion code	
MAINQDAT	Num	8	Main Q completion date	SAS date
MEDABS	Num	3	Medical abstract completion code	
PATID	Num	8	Study ID	1nnnn at UNC; 2nnnn at Wake
PRINTED	Num	3	Flag of obs that have been printed	
ULTRFORM	Num	3	Cervix U/S form rec'd at CPC from clinic	

## Interview Completion Codes used for MAINCOMP, FOLCOMP1, FOLCOMP2, LIFECOMP

1. successfully completed
2. partially completed
3. too late for window
4. refused
5. delivered prior to Q administration
6. unable to reach--no phone and/or all #'s disconnected/out of service
7. unable to reach--has phone, but unable to reach and conduct interview within 2 weeks
8. delivery date un-determined
9. other (see interview reports for specific reason)
99. not applicable (includes F-U Q's that aren't done because Main Q was not completed)

**NORTH CAROLINA COUNTY CODES**

01= Alamance	26= Cumberland	51= Johnson	76= Randolph
02= Alexander	27= Currituck	52= Jones	77= Richmond
03= Allegheny	28= Dare	53= Lee	78= Robeson
04= Anson	29= Davidson	54= Lenoir	79= Rockingham
05= Ashe	30= Davie	55= Lincoln	80= Rowan
06= Avery	31= Duplin	56= McDowell	81= Rutherford
07= Beaufort	32= Durham	57= Macon	82= Sampson
08= Bertie	33= Edgecombe	58= Madison	83= Scotland
09= Bladen	34= Forsyth	59= Martin	84= Stanly
10= Brunswick	35= Franklin	60= Mecklenburg	85= Stokes
11= Buncombe	36= Gaston	61= Mitchell	86= Surry
12= Burke	37= Gates	62= Montgomery	87= Swain
13= Cabarrus	38= Graham	63= Moore	88= Transylvania
14= Caldwell	39= Granville	64= Nash	89= Tyrrell
15= Camden	40= Greene	65= New Hanover	90= Union
16= Carteret	41= Guilford	66= Northampton	91= Vance
17= Caswell	42= Halifax	67= Onslow	92= Wake
18= Catawba	43= Harnett	68= Orange	93= Warren
19= Chatham	44= Haywood	69= Pamlico	94= Washington
20= Cherokee	45= Henderson	70= Pasquotank	95= Watauga
21= Chowan	46= Hertford	71= Pender	96= Wayne
22= Clay	47= Hoke	72= Perquimans	97= Wilkes
23= Cleveland	48= Hyde	73= Person	98= Wilson
24= Columbus	49= Iredell	74= Pitt	99= Yadkin
25= Craven	50= Jackson	75= Polk	100= Yancey
			990= out of state
			999=a missing