

Longitudinal Fractures Dataset Visit 01 through Visit 16

CODEBOOK

ARCHIVED DATASET 2019

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DESCRIPTION OF THE PUBLIC-USE SWAN LONGITUDINAL FRACTURE DATASET

This codebook documents all the bone fractures reported from Visit 01 through Visit 16 for women from the seven clinical sites participating in the SWAN longitudinal study. The sites include Boston, MA, Pittsburgh, PA, Oakland and Los Angeles, CA, Detroit, MI, Newark, NJ, and Chicago, IL.

1. Who is included in the public use dataset:

There are 1107 fractures (729 women) in the dataset. Most women have only one fracture from visit 01 to visit 16, while some women have multiple fractures. Multiple fractures may have occurred at different times and reported at different visits, or may have occurred at the same time and reported a single visit, or may have occurred at a single visit. The number of women and the number of fractures are as shown in the table below.

Number of fractures	Number of Women	Cumulative Number
1	485	485
2	163	648
3	45	693
4	23	716
5	9	725
6	4	729

Note: Fractures that occurred prior to SWAN are not included in this <u>longitudinal</u> dataset (We asked about fractures that occurred prior to SWAN in self-administered questionnaire Part A (SAA) form at SWAN baseline (Question D5).

The list and the description of variables in the dataset:

Variable	Label	Format/Codes
ARCHID	Study ID Number	6 digit character
REPORT_VISIT	Visit the fracture was reported	2 digit character
FXDAY	Day of fracture: The exact month and year was self-reported (and medical record adjudicated) at bone sites) starting at V07. Fracture dates were not collected from v01 to v06, therefore these fracture days were imputed	Numeric
BREVENT	Break event #	Numeric
TRAUMATIC	Traumatic Break	1 = no 2 = yes
FX_SITE	Break Bone Site	1 = wrist 2 = hip 3 = spine 4 = sacrum/pelvis 5 = ribs 6 = arm-above wrist 7 = leg not patella 8 = shoulder 9 = ankle 10 = patella 11 = hand 12 = foot 13 = other (coccyx ["tail bone"] or sternum) 14 = digits [fingers or toes] or facial
NBONE_SAME	Number of broken bones at the same anatomical region	Numeric
MFX_MR_FLG	More fractures on medical record flag	1 = yes
IMP FXD FLG	Imputed day of fractures flag	1 = yes
MEDREC	If medical record available	0 = no 1 = yes

REPORT_VISIT: The SWAN visit at which the fracture was reported; thus, the fracture has already occurred (since the prior visit).

TRAUMATIC: TRAUMATIC is a Yes/No variable that describes the mechanism of the fracture (traumatic or not). If a participant answered "Yes" to any of the trauma categories listed in Appendix 2, TRAUMATIC was set to "Yes". (Trauma was defined as: a fall from a height where your feet were greater than six inches above the ground [for example, falling down stairs]; in a motor vehicle accident; while moving fast [for example, running, bicycling, skating, or while playing sports], or because something heavy fell on you or struck you).

FX_SITE: The fracture sites are coded into 14 categories. (See Appendix 1 for detailed explanation.) The numeric code corresponding to each break sites is shown in the variable list above. The highest level of available information was used for coding. Specifically, the fracture site was based on medical records if available, otherwise self-report was used.

NBONE_SAME: To indicate number of broken bones in the same anatomical region.

MFX_MR_FLG: To flag the extra fractures found on medical record. Example: Participant reported leg fracture, MR reported leg and foot. Therefore, flag recorded for foot (or second) fracture.

FXDAY: Is the day of the fracture date since the initial baseline interview, which is day 0. From Visit 01 through Visit 06, questionnaires whether respondent had fracture since last visit; they did not ask for date for fracture. At and after visit 07, questionnaires inquired about date of fracture. For Visit 01 through Visit 06, the midpoint of visit date between LAST and CURRENT study visit is used. For visit 07 and beyond, if we obtained a medical record, we ascertained the break month and break year from that record. If we did not obtain a medical record, we used the self-reported date from the Break Event Form (BEVT) as the fracture date. We set the day of the break to the 15th the month in each case.

IMP_FXD_FLG: To flag if the day of fracture is imputed.

MEDREC: To indicate if the medical record is available for the fracture.

Additional Information:

The self-reported fractures were text fields from visit 01 to visit 06. These were manually coded to the categories listed above (and detailed in Appendix 1). For visit 07 and later, some of the items from the "other" category were manually coded into shoulder, ankle, patella, hand, foot, and the fingers/toes/facial categories. Also recoded were some of the BRARM category into shoulder, hand and fingers/toes/facial, and some of the BRLEG into ankle, patella, foot and fingers/toes/facial according to the break arm (BRARMSP) and break leg (BRLEGSP) text fields.

APPENDIX 1: REVISED CODING FOR FRACTURES (Coding Categories by Bone Committee)

a. COCCYX

- i. Separate from remainder of pelvic fractures-- the functional impact of a pelvic ring fracture is much greater than a coccyx fracture. Often referred to as TAIL BONE in self report
- ii. Code in #OTHER, (COCCYX ['TAILBONE'] OR STERNUM,
- b. SHOULDER Shoulder bones include clavicle and scapula.
 - i. Shoulder category will include self-report of shoulder, clavicle, and scapula and confirmed fractures of clavicle and scapula.
 - ii. Code as **#SHOULDER**

c. PATELLA

- i. Include all self-reported KNEE and confirmed patella.
- ii. code as **#PATELLA**
- d. FOOT bones of the foot exclusive of toes (digits)
 - i. Include all self-reported foot and confirmed foot
 - ii. Code as **#FOOT**
- e. **HAND** bones of the hand exclusive of fingers (digits)
 - i. Include all self-reported hand and confirmed hand
 - ii. Code as **#HAND**

f. ANKLE -

- i. Include self-report and confirmed ankle fractures.
- ii. Code as #ANKLE

g. STERNUM -

i. Coded as #OTHER (COCCYX ['TAIL BONE'] OR STERNUM)

h. TOES, FINGERS, FACE

i. Code as #DIGITS [FINGERS OR TOES] OR FACIAL

i. SACRUM/PELVIS

- i. Includes sacrum and all pelvic bones except coccyx
- j. WRIST
- k. HIP
- I. SPINE
- m. RIBS
- n. ARM-ABOVE WRIST
- o. LEG NOT PATELLA

APPENDIX 2: QUESTIONNAIRES FOR FRACTURE ASCERTAINMENT

Visit 01 - Visit 06: Self-report obtained in follow-up Interview Questionnaire

B29. Since your last study visit, how many times did you break or fracture a bone? [IF MORE THAN ONE BONE WAS BROKEN DURING THE SAME EVENT COUNT AS ONE TIME.]

	# of times broken bones (II	F NONE, GO TO B30)	# <u>B</u>	ROKEBON
a.	Which bones did you break or fracture? LIST BELOW. [IF BONE WAS BROKE MORE THAN ONCE, RECORD EACH E AND SPECIFY WHEN "REBROKEN". BE SPECIFIC IN IDENTIFYING WHICH WAS BROKEN (I.E. RIGHT TIBIA).]	N foll BREAK CA CA BONE • • •	lowing reasons? [] ARD "B" AND RE ATEGORIES.] after a fall from a greater than six in in a motor vehicle while moving fast skating, while playing spo	height above the ground aches, e accident, t, like running, bicycling or
			NO	YES
1			1	2
	# <u>BONES1</u>	# <u>H.</u>	APPEN1	
2	#PONICS3		1	2
	# <u>BONES2</u>	# <u>H</u>	APPEN2	

1

#HAPPEN3

#Variables Excluded from Public Use Data File Longitudinal Fractures Codebook

#BONES3

3.

2

V07 and later interviewer-administered survey BREAK EVENT FORM (BVET)

BREAK EVENT FORM (BVET)									
B2.	When did this event occ	cur? # <u>BRKMON</u>		/	/		#	BRKYEA	<u>R</u>
			М	М	Y	Y Y	Y		
a.		ractures happen in this particu T CARD " X " AND READ R			-		ollowing	reasons?	
	 down stairs), in a motor vehicle acci while moving fast, like while playing sports, or because something 	ht where your feet were greater dent, e running, bicycling or skating, heavy fell on you or struck you	1?			# <u>HOV</u>	<u>/BRK</u>	le, fallin	g
	YES						2		
b. Which bone(s) did you break?c. IF YES, On which side of your body?d. IF YES, Have ever broken bone before				ken this					
			NO	YES	RIGHT	LEFT	BOTH	NO	YES
	1. WRIST #<u>BRWRI</u>S	<u>ST</u>	1	2	1	2	3	1	2
						# <u>sidew</u>	'RT	# <u>B4V</u>	RIST
	2. HIP # BRHIP		1	2	1	2	3	1	2
						# <u>sideh</u>	IP	# B4H	IP
	3. SPINE #BRSPIN	E	1	2				1	2
		_						# <u>B4S</u> P	
	4. PELVIS #BRPELV	Ϋ́ς	1	2	1	2	3	1	2
	$+.1 LE \times 15 \frac{m}{DK} EE \times 15$	<u> </u>	1	2	1			_	
			1	2	1	# <u>SIDEP</u>		# <u>B4P</u>	
	5. RIBS #BRRIBS		1	2	1	2	3	1	2
						# <u>SIDER</u>		# <u>B4F</u>	
		RM (OTHER THAN WRIST),	1	2	1	2	3	1	2
	#BRARM					# <u>SIDEA</u>	RM	# <u>B4A</u>	<u>RM</u>
	SPECIFY <u>#BRARM</u> 7 REMAINDER OF L	<u>EG (OTHER THAN HIP),</u>	1	2	1	2	3	1	2
	#BRLE		1	2	1	- # <u>SIDEL</u>	-	# B4I	
	SPECIFY #BRLEC								
		BRKOTH, #BRKOTHS	1	2	1	2	3	1	2
						# <u>SIDEO</u>	<u>TR</u>	# <u>B40</u>	<u>DTHR</u>

IF MORE THAN ONE EVENT, COMPLETE ANOTHER BREAK/FRACTURE EVENT FORM.

V07 and later: MEDICAL RECORD ADJUDICATION FORM BREAK FRACTURE ABSTRACTION FORM

BREAK FRACTURE ABSTRACTION FORM – Section C

Study of Women's Health Across the Nation

SECTION A. GENERAL INFORMATION

AFFIX ID LABEL HERE

A1.	RESPONDENT ID:		ARCHID [~]
A2.	SWAN STUDY VISIT #		# <u>VISIT</u>
A3.	FORM VERSION:	11/01/2004	# <u>FORM_V</u>
A7.	WHICH EVENT?		# <u>BREVENT</u>
	S	ECTION C: REPORTED FRAC	TURE
C1.	WHICH FRACTURE IS THIS?	OF	# <u>FRACA1</u> # <u>FRACB1</u>
C2.	· · · · · · · · · · · · · · · · · · ·		IRE REPORTED ON THIS PAGE # <u>FRACREP1</u>
			ACH FRACTURE REPORTED
			5
	REMAINDER OF ARM, OTH	IER THAN WRIST	6
	SPECIFY LOCATION: _		
	REMAINDER OF LEG, OTH	IER THAN HIP	7
	SPECIFY LOCATION:		
	OTHER BONE		
	SPECIFY LOCATION:	FRACOTH1	

~ A randomly generated ID will be provided that is different from the original ID

	C2a. RIGHT OR LEFT SIDE:	# <u>RGHLEFT1</u>
	RIGHT LEFT	
C3.	DOES A RADIOLOGY REPORT CONFIRM A FRACTURE OF THE BONE CIRCLED ABOVE? NO YES (If Yes, attach a copy of the confirming x-ray report)	1
C4.	DO OTHER FINDINGS CONFIRM A FRACTURE OF THE BONE CIRCLED ABOVE? NO YES (If Yes, attach a copy of this confirming data)	
C5.	IF C3 AND C4 ARE BOTH ANSWERED 'NO,' DO YOU THINK THIS BONE WAS FRACTURED? NO	1 (END) 2
	C5a. IF YES OR DON'T KNOW, EXPLAIN WHY:	# <u>BNFRSP1</u>