FRAMINGHAM HEART STUDY CODING MANUAL

Fractures Cases Validated by Medical Records and Other Sources

COHORT: Generation 3, Omni 2

TIME INTERVAL: Fractures through 2018

DATASET NAME: vr_fxrev_2018_3b_1177s

OBSERVATIONS: 1539

Variables that define a unique record: SHAREID, G3_FXDATE, G3_FXSITE, G3_Q2, G3_Q3, RECORD.

This dataset updates Framingham dataset vr_fxrev_2013_3_0663.

This dataset is a modified version of the original dataset. Some observations were deleted due to consent restrictions. This coding manual is based on the original dataset. Therefore the value ranges, number of observations and/or cohorts found in the modified dataset, may differ from those stated in this manual.

IDTYPE

Variable name: IDTYPE

Description: Framingham Heart Study cohort identifier

Code or Value	Description	Count
3	Generation 3 Cohort	1513
72	Omni 2 Cohort	26

Note: IDTYPE and ID taken together from a unique study participant ID number.

ID

Variable name: ID

Description: Framingham Heart Study participant identifier within a cohort

Note: IDTYPE and ID taken together from a unique study participant ID number.

RECID was removed for confidentiality.

ID deleted - use SHAREID

SHAREID

Variable name: SHAREID

Description: Unique study participant identification number

G3_FXDATE

Variable name: G3_FXDATE

Description: Fracture date

Units: Number of days since Exam 1

Code or Value	Description	Count
-15652 — 5838	Range of values	1539
.	Unknown	0

Note: Dates include month, day and year, however coding manual displays only month and year to preserve confidentiality.

G3_IMPYN

Variable name: G3_IMPYN
Description: Fracture date imputed?

Code or Value	Description	Count
0	No	382
1	Yes	1157
.	Unknown	0

G3_IMPTYPE

Variable name: G3_IMPTYPE
Description: Fracture date imputed type

Code or Value	Description	Count
0	No imputed date	382
1	Day of fracture imputed	90
2	Month of fracture imputed	1
3	Day and month of fracture imputed	933
4	Date fracture became apparent through radiology report	64
5	Date noted in medical history by nurse/MD in participant's medical records	69
.	Unknown	0

G3_FXSITE

Variable name: G3_FXSITE
Description: Fracture location

Code or Value	Description	Count
1	Hip fracture	8
2	All wrist and forearm fracture	159
3	Skull	5
4	Facial bones-includes jaw, nose, cheek	68
5	Shoulder	12
6	Clavicle or collar bone	44
7	Scapula-shoulder blade	3
8	Upper arm	41
9	Elbow	37
10	Hand	95
11	Fingers	182
12	Ribs	139
13	Chest/sternum	0
14	All vertebrae	70
15	Pelvis	19
16	Tailbone/coccyx/sacrum	11
17	Leg	100
18	Patella	27
19	Ankle-includes distal tibia and fibula	187
20	Foot/metatarsal	191
21	Toes	141
.	Unknown	0

G3_FXSITEDESC

Variable name: G3_FXSITEDESC

Description: Fracture location description

Code or Value	Description	Count
1 (Hip fracture)	Hip fracture	8
2 (All wrist and forearm fracture)	All wrist and forearm fracture	159
3 (Skull)	Skull	5
4 (Facial bones (includes jaw, nose, cheek))	Facial bones (includes jaw, nose, cheek)	68
5 (Shoulder)	Shoulder	12
6 (Clavicle or collar bone)	Clavicle or collar bone	44
7 (Scapula -shoulder blade)	Scapula -shoulder blade	3
8 (Upper arm)	Upper arm	41
9 (Elbow)	Elbow	37
10 (Hand)	Hand	95
11 (Fingers)	Fingers	182
12 (Ribs)	Ribs	139
14 (All vertebrae)	All vertebrae	70
15 (Pelvis)	Pelvis	19
16 (Tailbone/coccyx/sacrum)	Tailbone/coccyx/sacrum	11
17 (Leg)	Leg	100
18 (Patella)	Patella	27
19 (Ankle (includes distal tibia and fibula))	Ankle (includes distal tibia and fibula)	187
20 (Foot/metatarsal)	Foot/metatarsal	191
21 (Toes)	Toes	141
.	Unknown	0

G3_Q2

Variable name: G3_Q2
Description: Fracture side (Q2)

Code or Value	Description	Count
1	Right	615
2	Left	577
3	Axial (vertebral, pelvis, nasal, sacrum, sternum, skull)	170
.	Unknown	177

G3_Q3

Variable name: G3_Q3
Description: Detailed fracture location (Q3)

Code or Value	Description	Count
1	Hip	2
1.1	Intertrochanteric	3
1.2	Femoral neck	3
1.3	Other hip location	0
1.4	Sub trochanteric	0
2	Wrist (unspecified)	90
2.1	Distal radius (Colles; Smith)	47
2.2	Distal ulna	4
2.3	Both distal radius and ulna	9
3	Skull	5
4	Facial bones (includes jaw, nose, cheek)	68
5	Neck	2
5.1	First cervical vertebra	0
5.2	Second cervical vertebra	0
5.3	Third cervical vertebra	0
5.4	Fourth cervical vertebra	0
5.5	Fifth cervical vertebra	0
5.6	Sixth cervical vertebra	0
5.7	Seventh cervical vertebra	1
5.8	Multiple cervical vertebrae	1
6	Shoulder	12
6.1	Clavicle or collar bone	44
6.2	Scapula (shoulder blade)	3
7	Arm (unspecified)	6
7.1	Humerus (upper arm)	35
7.2	Elbow	37
7.3	Radius a/o ulna, proximal or mid shaft	6
8	Hand	95
9	Fingers	182

10	Other small bones in wrist	3
11	Ribs	139
12	Chest/Sternum	0
13	Thoracic Spine (unspecified)	0
13.1	First thoracic vertebra	1
13.2	Second thoracic vertebra	0
13.3	Third thoracic vertebra	0
13.4	Fourth thoracic vertebra	1
13.5	Fifth thoracic vertebra	0
13.6	Sixth thoracic vertebra	1
13.7	Seventh thoracic vertebra	2
13.8	Eighth thoracic vertebra	2
13.9	Ninth thoracic vertebra	2
13.11	Eleventh thoracic vertebra	1
13.12	Twelfth thoracic vertebra	6
13.13	Multiple thoracic vertebra	0
13.99	Tenth thoracic vertebra	1
14	Lumbar Spine (unspecified)	0
14.1	First lumbar vertebra	8
14.2	Second lumbar vertebra	1
14.3	Third lumbar vertebra	1
14.4	Fourth lumbar vertebra	3
14.5	Fifth lumbar vertebra	1
14.6	Multiple lumbar vertebra	2
15	Pelvis	19
16	Tailbone/coccyx/sacrum	11
17	Leg (unspecified)	67
17.1	Femur (not hip)	6
17.2	Patella	27
17.3	Tibia	16
17.4	Fibula	10
17.5	Both tibia/fibula	1
18	Ankle (includes distal tibia and fibula)	187

Code or Value	Description	Count
19	Foot/Metatarsal	180
20	Toes	141
21	Heel/Os Calcis	11
22	Spine (unspecified)	33
.	Unknown	0

Note: G3_Q3DESC (Detailed fracture location description) was removed for confidentiality.

G3_Q12

Variable name: G3_Q12
Description: Detailed circumstances of fracture (Q12)

Code or Value	Description	Count
1	Fall from standing height or less - includes most injuries due to tripping over something, slips in shower or tub, falling out of chair or bed, pt lands on the surface at the same height as the surface he/she was standing on	122
2	Falls on stairs, steps or curbs - includes all falls during change in level, such as stepping up or down stairs, steps, curbs.	40
3	Fall from more than standing height, but NOT on stairs - includes falls from heights such as off a ladder or while standing on a table or chair, off a porch, out of a window, etc.	55
4	Minimal trauma other than a fall - includes vertebral fractures associated with coughing, stepping down a step, etc, and rib or other fractures associated with turning over in bed, etc.	10
5	Moderate trauma other than a fall - includes collisions with objects during normal activities (stub toe, hit hand against door frame, walking into door), twisting or turning ankle (or ankle fractures).	71
6	Severe trauma other than a fall - includes motor vehicle accidents, struck by a car, hit by rapidly moving projectile (golf ball, golf club), assault.	81
7	Pathologic fracture - usually associated with cancer in bone	0
.	Unknown/ don't know/missing	1160

G3_MEDCNF

Variable name: G3_MEDCNF

Description: Medical-record-confirmed fracture?

Code or Value	Description	Count
0	No	897
1	Yes	642
.	Unknown	0

RECORD

Variable name: RECORD

Description: Record

Code or Value	Description	Count
0	Single	1537
1	Not single, first record	1
2	Not single, second record	1

Note: Record is a new variable that was created to capture and separate all cases that occurred on the same day. Framingham site created this variable and dropped RECID variable from the dataset for confidentiality purposes.