

## Phone: Health

HHEALTH - Health Module Graduate-Spouse Phone Instrument

For more information on the Health Module see Appendix M, COR932.

### OVERVIEW

This is the first round of data collection for graduate spouses. Health items ascertained on the telephone during the 2004/2005 round include general self-reported health, the Health Utilities Index-Mark 3, specific illnesses and details regarding long-term care.

### BRIEF VARIABLE DESCRIPTIONS

AX201RE	Self-Reported General Health
AX202ARE	HUI3 Summary Score
AX203LRE-AX210LRE	HUI3 Component Dimension Levels
AX203SRE-AX210SRE	HUI3 Component Dimension Scores
AX230RE-AX232BRE	Long-Term Physical Disability
AX301RE-AX340RE	Specific HUI3 Items
AX341RE	High Blood Pressure/Hypertension
AX342RE-AX347RE	Diabetes & High Blood Sugar
AX348RE-AX350ARE	Cancer
AX351RE-AX355RE	Heart Problems
AX356RE-AX358RE	Stroke
AX359RE-AX360RE	Arthritis & Rheumatism
AX361RE-AX362ARE	Mental Illness
AV031RE-AV032ARE	Received Personal Care
AV033RE	Relationship to Caregiver
AV034RE-AV036RE	Caregiver Specific Items
AV037RE-AV040RE	Personal Care Specific Items
AV041RE-AV042RE	Amount/Frequency of Personal Care Received

**av031re: Now think about the last 12 months, did you receive personal care for a period of one month or more from a family member or friend because of a health condition, illness, or disability?**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x750

Value	Label	Frequencies		
		Male	Female	Total
-3	REFUSED	0	3	3
-2	INAPPROPRIATE INAP, NEEDS HELP WITH ROUTINE TASKS (AX340RE=1)	55	105	160
-1	DON'T KNOW	1	1	2
1	YES	62	77	139
2	NO	1690	1896	3586

**av032are: What condition/illness/disability caused you to need personal care? Added 11/07.**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone

Source variables: h\_x760

\*NOT AVAILABLE ON PUBLIC RELEASE\*

Value	Label	Frequencies		
		Male	Female	Total
-18	COULD NOT CODE	5	0	5
-3	REFUSED	0	2	2
-2	INAPPROPRIATE INAP, AX340RE NE 1 OR AV031RE NE 1	1691	1898	3589
136	Other and unspecified infectious and parasitic diseases	1	1	2
162	Malignant neoplasm of trachea, bronchus, and lung	0	1	1
174	Malignant neoplasm of female breast	0	2	2
191	Malignant neoplasm of brain	0	1	1
199	Malignant neoplasm without specification of site	4	3	7
239	Neoplasms of unspecified nature	2	0	2
250	Diabetes mellitus	0	3	3
274	Gout	0	1	1
296	Affective psychoses	0	1	1

Wisconsin Longitudinal Study Codebook

311	Depressive disorder, not elsewhere classified	0	1	1
332	Parkinson's disease	3	0	3
333	Other extrapyramidal disease and abnormal movement disorders	0	1	1
337	Disorders of the autonomic nervous system	0	1	1
340	Multiple sclerosis	0	6	6
345	Epilepsy	0	1	1
354	Mononeuritis of upper limb and mononeuritis multiplex	0	1	1
356	Hereditary and idiopathic peripheral neuropathy	2	0	2
357	Inflammatory and toxic neuropathy	0	1	1
359	Muscular dystrophies and other myopathies	0	1	1
361	Retinal detachments and defects	0	1	1
362	Other retinal disorders	1	0	1
369	Blindness and low vision	7	1	8
379	Other eye disorders	0	2	2
386	Vertiginous syndromes and other disorders of vestibular system	2	0	2
389	Hearing loss	1	0	1
410	Acute myocardial infarction	2	1	3
428	Heart failure	0	2	2
429	Ill-defined descriptions and complications of heart disease	4	0	4
430	Subarachnoid hemorrhage	0	1	1
436	Acute, but ill-defined, cerebrovascular disease	8	4	12
440	Atherosclerosis	1	1	2
453	Other venous embolism and thrombosis	1	1	2
457	Noninfectious disorders of lymphatic channels	0	1	1
465	Acute upper respiratory infections of multiple or unspecified sites	0	1	1
492	Emphysema	1	0	1

Wisconsin Longitudinal Study Codebook

493	Asthma	0	1	1
496	Chronic airway obstruction, not elsewhere specified	1	2	3
501	Asbestosis	1	0	1
512	Pneumothorax	1	0	1
518	Other diseases of lung	0	1	1
530	Diseases of esophagus	0	1	1
555	Regional enteritis	0	1	1
558	Other noninfectious gastroenteritis and colitis	0	2	2
573	Other disorders of liver	0	1	1
577	Diseases of pancreas	1	0	1
586	Renal failure, unspecified	0	1	1
592	Calculus of kidney and ureter	0	1	1
593	Other disorders of kidney and ureter	1	0	1
602	Other disorders of prostate	1	0	1
710	Diffuse diseases of connective tissue	0	1	1
714	Rheumatoid arthritis and other inflammatory polyarthropathies	0	1	1
715	Osteoarthritis and allied disorders	0	4	4
716	Other and unspecified arthropathies	3	10	13
717	Internal derangement of knee	1	0	1
719	Other and unspecified disorders of joint	0	6	6
722	Intervertebral disc disorder	2	2	4
724	Other and unspecified disorders of back	2	16	18
725	Polymyalgia rheumatica	0	1	1
727	Other disorders of synovium, tendon, and bursa	0	2	2
728	Disorders of muscle, ligament, and fascia	0	2	2
729	Other disorders of soft tissues	3	4	7
733	Other disorders of bone and cartilage	1	1	2
780	General symptoms	0	3	3

Wisconsin Longitudinal Study Codebook

786	Symptoms involving respiratory system and other chest symptoms	1	2	3
805	Fracture of vertebral column without mention of spinal cord	1	3	4
814	Fracture of carpal bone(s)	0	2	2
818	Ill-defined fractures of upper limb	0	1	1
820	Fracture of neck of femur	0	2	2
822	Fracture of patella	0	1	1
824	Fracture of ankle	1	4	5
827	Other, multiple, and ill-defined fractures of lower limb	1	2	3
829	Fracture of unspecified bones	0	1	1
840	Sprains and strains of shoulder and upper arm	0	3	3
848	Other and ill-defined sprains and strains	0	1	1
909	Late effects of other and unspecified external causes	0	1	1
995	Certain adverse effects not elsewhere classified	0	1	1
998	Other complications of procedures, not elsewhere classified	0	1	1
3230	Carrying out daily routine	1	0	1
3410	Changing basic body position	0	1	1
3445	Hand and arm use	0	1	1
3450	Walking	1	1	2
3499	Mobility, unspecified	2	0	2
3640	Doing housework	0	1	1
5819	Motor vehicle traffic accident of unspecified nature	1	1	2
5884	Other Accidental Falls From One Level To Another	1	0	1
5888	Other and unspecified fall	0	1	1
5947	Other And Unspecified Drugs And Medicinal Substances Causing Adverse Effects In Therapeutic Use	2	0	2
6046	Other Dependence On Machines	0	1	1
6069	Problems Related to Lifestyle	0	1	1
7000	Procedures and Interventions, NEC	2	3	5

Wisconsin Longitudinal Study Codebook

7004	Operations on cranial and peripheral nerves	0	1	1
7016	Operations on orbit and eyeball	1	1	2
7021	Operation on nose	1	0	1
7036	Operations on vessels of heart	2	0	2
7037	Other operations on heart and pericardium	5	0	5
7039	Other operations on vessels	2	0	2
7044	Other operations on stomach	0	1	1
7046	Other operations on intestine	0	1	1
7053	Repair of hernia	1	1	2
7060	Operations on prostate and seminal vesicles	2	0	2
7080	Incision and excision of joint structures	1	0	1
7081	Repair and plastic operations on joint structures	23	32	55
7082	Operations on muscle, tendon, and fascia of hand	0	1	1
7083	Operations on muscle, tendon, fascia, and bursa except hand	2	1	3
7085	Operations on the breast	0	1	1

Note: See COR867 in Appendix R for codes and details regarding cause of death coding.

**av032bre: Collapsed - What condition/illness/disability caused you to need personal care? Added 11/07**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x760

Value	Label	Frequencies		
		Male	Female	Total
-18	NOT CODEABLE	5	0	5
-3	REFUSED	0	2	2
-2	INAPPROPRIATE INAP, R NEVER NEEDED HELP, AX340RE NE 1 AND AV031RE NE 1	1691	1898	3589
10	Infectious and Parasitic Diseases	1	1	2
20	Neoplasms	6	7	13
30	Endocrine, Nutritional, Metabolic, Immunity	0	4	4
50	Mental Disorders	0	2	2
60	Nervous System and Sense Organs	16	16	32
70	Circulatory System	16	11	27
80	Respiratory System	4	5	9
90	Digestive System	1	5	6
100	Genitourinary system	2	2	4
130	Musculoskeletal System and Connective Tissue	12	50	62
160	Symptoms, Signs, and Ill-Defined Conditions	1	5	6
170	Injury and Poisoning	3	23	26
180	ICD-9 E Codes	4	2	6
190	ICD-9 V Codes	0	2	2
200	ICD-9 Volume 3 Headings	42	43	85
230	ICF Activities and Participation	4	4	8

### **av033re: Who did you receive the most personal care from?**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x770

Value	Label	Frequencies		
		Male	Female	Total
-2	INAPPROPRIATE INAP, R NEVER NEEDED HELP	1695	1903	3598
1	HUSBAND/WIFE	106	156	262
2	SON	1	2	3
3	DAUGHTER	1	5	6
6	BROTHER	0	1	1
40	DAUGHTER-IN-LAW	1	2	3
51	FEMALE FRIEND	0	2	2
66	WHOLE FAMILY	0	3	3
91	FRIEND, GENDER UNKNOWN	0	1	1
104	MULTIPLE RECIPIENTS	0	1	1
106	MULTIPLE CAREGIVERS, FAMILY	0	2	2
107	MULTIPLE CAREGIVERS, FRIENDS	1	0	1
108	MEDICAL PROFESSIONALS	3	4	7

### av034re: Is this person still helping you?

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x800

Value	Label	Frequencies		
		Male	Female	Total
-2	INAPPROPRIATE INAP, R NEVER NEEDED HELP	1691	1900	3591
1	YES	75	132	207
2	NO	42	50	92



**av035re: Why is this person no longer helping you? Is it because you no longer need care, someone else is helping you, or for some other reason?**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x810

Value	Label	Frequencies		
		Male	Female	Total
-4	NOT ASCERTAINED	2	0	2
-2	INAPPROPRIATE INAP, NO HELP NEEDED, ASST STILL HELPS	1766	2030	3796
1	RESPONDENT NO LONGER NEEDS CARE	40	52	92

**av036re: During this period of receiving care, did this person live with you?**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x830

Value	Label	Frequencies		
		Male	Female	Total
-2	INAPPROPRIATE INAP, NO HELP NEEDED	1691	1900	3591
-1	DON'T KNOW	0	1	1
1	YES	109	165	274
2	NO	8	16	24

Note: [Name] = caregiver, if any.

**av037re: Because of your limitations did/does this person help you with: bathing, dressing, eating, or going to the bathroom?**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x840

Frequencies				
Value	Label	Male	Female	Total
-2	INAPPROPRIATE INAP, NO HELP NEEDED	1691	1900	3591
1	YES	39	58	97
2	NO	78	124	202

Note: [Name] = caregiver, if any.

**av038re: Because of your limitations did/does this person help you with:  
Getting around inside the house or getting outside?**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x850

Frequencies				
Value	Label	Male	Female	Total
-2	INAPPROPRIATE INAP, NO HELP NEEDED	1691	1900	3591
-1	DON'T KNOW	0	1	1
1	YES	49	75	124
2	NO	68	106	174

**av039re: Did/does this person help you with: Shopping, cooking,  
housework or laundry?**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x860

Frequencies				
Value	Label	Male	Female	Total
-3	REFUSED	1	0	1
-2	INAPPROPRIATE INAP, NO HELP NEEDED	1691	1900	3591
1	YES	78	164	242
2	NO	38	18	56

**av040re: Did/does this person help you with: Managing money, making phone calls, or taking medications?**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x870

Frequencies				
Value	Label	Male	Female	Total
-2	INAPPROPRIATE INAP, NO HELP NEEDED	1691	1900	3591
1	YES	51	53	104
2	NO	66	129	195

**av041re: In how many different weeks during the past 12 months did you receive personal care from this person?**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x880

Value	Label	Frequencies		
		Male	Female	Total
-2	INAPPROPRIATE INAP, NO HELP NEEDED	1691	1900	3591
-1	DON'T KNOW	4	8	12
0 - 4		36	48	84
5 - 12		33	39	72
13 - 52		44	87	131

Note: [Name] = caregiver, if any.

**av042re: During those weeks, about how many hours per week, on average did this person help you?**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x890

Value	Label	Frequencies		
		Male	Female	Total
-2	INAPPROPRIATE INAP, NO HELP NEEDED	1691	1900	3591
-1	DON'T KNOW	10	18	28
0 - 3		29	41	70
4 - 8		24	35	59
10 - 15		18	38	56
16 - 30		29	28	57
35 - 97		7	22	29

**ax201re: In general, would you say your health is excellent, very good, good, fair, or poor?**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x10

Frequencies				
Value	Label	Male	Female	Total
-3	REFUSED	0	1	1
1	EXCELLENT	370	489	859
2	VERY GOOD	741	870	1611
3	GOOD	500	549	1049
4	FAIR	139	121	260
5	POOR	58	52	110

Note: See HUI documentation.

### **ax202are: Health Utilities Index Mark 3 Summary Score**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x:20-220, 240-270, 310-330, 370-400

Frequencies				
Value	Label	Male	Female	Total
-2	INAPPROPRIATE INAP, ONE+ ITEMS MISSING, NO SCORE COMPUTED	171	81	252
-0.15 - 0.74		347	391	738
0.75 - 0.89		318	414	732
0.90 - 0.93		337	390	727
0.95 - 0.97		482	655	1137
1		153	151	304

Note: See HUI3 Documentation.

### **ax202bma: Health Utilities Index Mark 3 Best Measure**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x:20-220, 240-270, 310-330, 370-400

**Frequencies**

<b>Value</b>	<b>Label</b>	<b>Male</b>	<b>Female</b>	<b>Total</b>
-0.27 - 0.70		444	386	830
0.71 - 0.86		340	445	785
0.87 - 0.93		385	434	819
0.95 - 0.97		486	665	1151
1		153	152	305

Note: See HUI3 Documentation.

**ax202bmb: Health Utilities Index Best Measure Number of Logical Imputations**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x:20-220, 240-270, 310-330, 370-400

**Frequencies**

<b>Value</b>	<b>Label</b>	<b>Male</b>	<b>Female</b>	<b>Total</b>
0		1645	2007	3652
1		130	63	193
2		25	5	30
3		3	0	3
4		4	1	5
5		0	3	3
6		1	0	1
7		0	1	1
11		0	1	1
31		0	1	1

Note: See HUI3 Documentation.

## **ax202bre: Modified Health Utilities Index Mark 3 Summary Score Logical Imputation**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x:20-220, 240-270, 310-330, 370-400

Value	Label	Frequencies		
		Male	Female	Total
-2	INAPPROPRIATE INAP, ONE+ ITEMS MISSING, NO SCORE COMPUTED	7	3	10
-0.21 - 0.70		437	384	821
0.71 - 0.86		339	444	783
0.87 - 0.93		386	434	820
0.95 - 0.97		486	665	1151
1		153	152	305

Note: See HUI3 Documentation.

## **ax202cre: Modified Health Utilities Index Mark 3 Summary Score Number of Logical Imputations**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x:20-220, 240-270, 310-330, 370-400

Frequencies				
Value	Label	Male	Female	Total
0		1650	2010	3660
1		130	63	193
2		20	5	25
3		3	0	3
4		4	1	5
5		0	3	3
6		1	0	1

### **ax203lre: Health Utilities Index Mark 3 Vision Level**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x20-h\_x60

Value	Label	Frequencies		
		Male	Female	Total
-2	INAPPROPRIATE INAP, ONE+ ITEMS MISSING, NO SCORE COMPUTED	24	29	53
1	Able to see well enough to read ordinary newsprint and recognize a friend on the other side of the street, without glasses or contact lenses.	383	344	727
2	Able to see well enough to read ordinary newsprint and recognize a friend on the other side of the street, but with glasses.	1383	1692	3075
3	Able to read ordinary newsprint with or without glasses but unable to recognize a friend on the other side of the street, even with glasses.	3	9	12
4	Able to recognize a friend on the other side of the street with or without glasses but unable to read ordinary newsprint, even with glasses.	8	4	12
5	Unable to read ordinary newsprint and unable to recognize a friend on the other side of the street, even with glasses.	7	3	10
6	Unable to see at all.	0	1	1

Note: See HUI3 Documentation.

### **ax203sre: Health Utilities Index Mark 3 Vision Score**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x20-h\_x60



Value	Label	Frequencies		
		Male	Female	Total
-2	INAPPROPRIATE INAP, ONE+ ITEMS MISSING, NO SCORE COMPUTED	24	29	53
0		0	1	1
0.38		7	3	10
0.59		8	4	12
0.73		3	9	12
0.95		1383	1692	3075
1		383	344	727

Note: See HUI3 Documentation.

### **ax204lre: Health Utilities Index Mark 3 Hearing Level**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x70-h\_x100

Value	Label	Frequencies		
		Male	Female	Total
-2	INAPPROPRIATE INAP, ONE+ ITEMS MISSING, NO SCORE COMPUTED	120	37	157
1	Able to hear what is said in a group conversation with at least three other people, without a hearing aid.	1571	2015	3586
2	Able to hear what is said in a conversation with one other person in a quiet room without a hearing aid, but requires a hearing aid to hear what is said in a group conversation with at least three other people.	79	13	92
3	Able to hear what is said in a conversation with one other person in a quiet room with a hearing aid, and able to hear what is said in a group conversation with at least three other people, with a hearing aid.	12	10	22
4	Able to hear what is said in a conversation with one other person in a quiet room, without a hearing aid, but unable to hear what is said in a group conversation with at least three other people even with a hearing aid.	24	5	29
5	Able to hear what is said in a conversation with one other person in a quiet room with a hearing aid, but unable to hear what is said in a group conversation with at least three other people even with a hearing aid.	0	2	2
6	Unable to hear at all.	2	0	2

Note: See HUI3 Documentation.

### **ax204sre: Health Utilities Index Mark 3 Hearing Score**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x70-h\_x100

Value	Label	Frequencies		
		Male	Female	Total
-2	INAPPROPRIATE INAP, ONE+ ITEMS MISSING, NO SCORE COMPUTED	120	37	157
0		2	0	2
0.32		0	2	2
0.48		24	5	29
0.71		12	10	22
0.86		79	13	92
1		1571	2015	3586

Note: See HUI3 Documentation.

### ax205lre: Health Utilities Index Mark 3 Speech Level

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone

Source variables: h\_x110-h\_x150

Value	Label	Frequencies		
		Male	Female	Total
-2	INAPPROPRIATE INAP, ONE+ ITEMS MISSING, NO SCORE COMPUTED	10	7	17
1	Able to be understood completely when speaking with strangers or friends.	1738	2029	3767
2	Able to be understood partially when speaking with strangers but able to be understood completely when speaking with people who know me well.	37	34	71
3	Able to be understood partially when speaking with strangers or people who know me well.	20	10	30
4	Unable to be understood when speaking with strangers but able to be understood partially by people who know me well.	2	2	4
5	Unable to be understood when speaking to other people (or unable to speak at all).	1	0	1

Note: See HUI3 Documentation.

### **ax205sre: Health Utilities Index Mark 3 Speech Score**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x110-h\_x150

Value	Label	Frequencies		
		Male	Female	Total
-2	INAPPROPRIATE INAP, ONE+ ITEMS MISSING, NO SCORE COMPUTED	10	7	17
0		1	0	1
0.41		2	2	4
0.67		20	10	30
0.82		37	34	71
1		1738	2029	3767

Note: See HUI3 Documentation.

### **ax206lre: Health Utilities Index Mark 3 Ambulation Level**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x160-h\_x230

Value	Label	Frequencies		
		Male	Female	Total
-2	INAPPROPRIATE INAP, ONE+ ITEMS MISSING, NO SCORE COMPUTED	8	4	12
1	Able to walk around the neighbourhood without difficulty, and without walking equipment.	1680	1933	3613
2	Able to walk around the neighbourhood with difficulty but does not require walking equipment or the help of another person.	66	74	140
3	Able to walk around the neighbourhood with walking equipment, but without the help of another person.	41	34	75
4	Able to walk only short distances with walking equipment, and requires a wheelchair to get around the neighbourhood.	5	6	11
5	Unable to walk alone, even with walking equipment; able to walk short distances with the help of another person, and requires a wheelchair to get around the neighbourhood.	6	17	23
6	Cannot walk at all.	2	14	16

Note: See HUI3 Documentation.

### ax206sre: Health Index Utilities Mark 3 Ambulation Score

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone

Source variables: h\_x160-h\_x230

Value	Label	Frequencies		
		Male	Female	Total
-2	INAPPROPRIATE INAP, ONE+ ITEMS MISSING, NO SCORE COMPUTED	8	4	12
0		2	14	16
0.16		6	17	23
0.36		5	6	11
0.67		41	34	75
0.83		66	74	140
1		1680	1933	3613

Note: See HUI3 Documentation.

### **ax207lre: Health Utilities Index Mark 3 Dexterity Level**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x240-h\_x270

Value	Label	Frequencies		
		Male	Female	Total
-2	INAPPROPRIATE INAP, ONE+ ITEMS MISSING, NO SCORE COMPUTED	0	2	2
1	Full use of two hands and ten fingers.	1766	2042	3808
2	Limitations in the use of hands or fingers, but does not require special tools or help of another person.	26	15	41
3	Limitations in the use of hands or fingers, but is independent with use of special tools (does not require the help of another person).	1	0	1
4	Limitations in the use of hands or fingers, requires the help of another person for some tasks (not independent even with use of special tools).	11	20	31
5	Limitations in use of hands or fingers, requires the help of another person for most tasks (not independent even with use of special tools).	3	3	6
6	Limitations in use of hands or fingers, requires the help of another person for all tasks (not independent even with use of special tools).	1	0	1

Note: See HUI3 Documentation.

### **ax207sre: Health Utilities Index 3 Dexterity Score**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x240-h\_x270

Value	Label	Frequencies		
		Male	Female	Total
-2	INAPPROPRIATE INAP, ONE+ ITEMS MISSING, NO SCORE COMPUTED	0	2	2
0		1	0	1
0.20		3	3	6
0.45		11	20	31
0.73		1	0	1
0.88		26	15	41
1		1766	2042	3808

Note: See HUI3 Documentation.

### ax208lre: Health Utilities Index 3 Emotion Level

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x310-h\_x330

Value	Label	Frequencies		
		Male	Female	Total
-2	INAPPROPRIATE INAP, ONE+ ITEMS MISSING, NO SCORE COMPUTED	21	10	31
1	Happy and interested in life.	1526	1797	3323
2	Somewhat happy.	192	162	354
3	Somewhat unhappy.	60	90	150
4	Very unhappy.	7	20	27
5	So unhappy that life is not worthwhile.	2	3	5

Note: See HUI3 Documentation.

### ax208sre: Health Utilities Index Mark 3 Emotion Score

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x310-h\_x330

Value	Label	Frequencies		
		Male	Female	Total
-2	INAPPROPRIATE INAP, ONE+ ITEMS MISSING, NO SCORE COMPUTED	21	10	31
0		2	3	5
0.33		7	20	27
0.73		60	90	150
0.91		192	162	354
1		1526	1797	3323

Note: See HUI3 Documentation.

### ax209lre: Health Utilities Index Mark 3 Cognition Level

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x370, h\_x380

Value	Label	Frequencies		
		Male	Female	Total
-2	INAPPROPRIATE INAP, ONE+ ITEMS MISSING, NO SCORE COMPUTED	2	7	9
1	Able to remember most things, think clearly and solve day to day problems.	1273	1577	2850
2	Able to remember most things, but have a little difficulty when trying to think and solve day to day problems.	66	69	135
3	Somewhat forgetful, but able to think clearly and solve day to day problems.	333	334	667
4	Somewhat forgetful, and have a little difficulty when trying to think or solve day to day problems.	118	83	201
5	Very forgetful, and have great difficulty when trying to think or solve day to day problems.	16	12	28

Note: See HUI3 Documentation.



## ax209sre: Health Utilities Index Mark 3 Cognition Score

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone

Source variables: h\_x370, h\_x380

Value	Label	Frequencies		
		Male	Female	Total
-2	INAPPROPRIATE INAP, ONE+ ITEMS MISSING, NO SCORE COMPUTED	2	7	9
0.32		16	12	28
0.70		118	83	201
0.86		66	69	135
0.92		333	334	667
1		1273	1577	2850

Note: See HUI3 Documentation.

## ax210lre: Health Utilities Index Mark 3 Pain Level

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone

Source variables: h\_x390, h\_x400

Value	Label	Frequencies		
		Male	Female	Total
-2	INAPPROPRIATE INAP, ONE+ ITEMS MISSING, NO SCORE COMPUTED	2	3	5
1	Free of pain and discomfort.	1010	1056	2066
2	Mild to moderate pain that prevents no activities.	344	472	816
3	Moderate pain that prevents a few activities.	242	303	545
4	Moderate to severe pain that prevents some activities.	136	176	312
5	Severe pain that prevents most activities.	74	72	146

Note: See HUI3 Documentation.

### **ax210sre: Health Utilities Index Mark 3 Pain Score**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x390, h\_x400

Value	Label	Frequencies		
		Male	Female	Total
-2	INAPPROPRIATE INAP, ONE+ ITEMS MISSING, NO SCORE COMPUTED	2	3	5
0		74	72	146
0.48		136	176	312
0.77		242	303	545
0.92		344	472	816
1		1010	1056	2066

Note: See HUI3 Documentation.

### **ax230re: Including what you have already told me, would you say that you have EVER had any long-term physical or mental conditions, illnesses or disabilities that limited what you were able to do, either on or off the job?**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x730

Value	Label	Frequencies		
		Male	Female	Total
-3	REFUSED	0	3	3
-1	DON'T KNOW	3	0	3
1	YES	383	389	772
2	NO	1422	1690	3112

**ax231are: What is the MOST SERIOUS condition that limited what you were able to do, either on or off the job? Added 11/07.**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone

Source variables: h\_x733

\*NOT AVAILABLE ON PUBLIC RELEASE\*

Value	Label	Frequencies		
		Male	Female	Total
-18	COULD NOT CODE	3	3	6
-3	REFUSED	1	0	1
-2	INAPPROPRIATE INAP, AX230RE NE 1	1425	1693	3118
10	Primary tuberculosis infection	1	0	1
41	Bacterial infection in conditions classified elsewhere and of unspecified site	1	0	1
45	Acute poliomyelitis	2	4	6
70	Viral hepatitis	1	1	2
88	Other arthropod-borne diseases	1	0	1
135	Sarcoidosis	0	1	1
136	Other and unspecified infectious and parasitic diseases	1	0	1
138	Late effects of acute poliomyelitis	1	0	1
153	Malignant neoplasm of colon	0	1	1
170	Malignant neoplasm of bone and articular cartilage	1	0	1
174	Malignant neoplasm of female breast	0	1	1
183	Malignant neoplasm of ovary and other uterine adnexa	0	1	1
185	Malignant neoplasm of prostate	1	0	1
191	Malignant neoplasm of brain	0	1	1
199	Malignant neoplasm without specification of site	7	11	18
202	Other malignant neoplasms of lymphoid and histiocytic tissue	1	0	1
208	Leukemia of unspecified cell type	1	1	2

Wisconsin Longitudinal Study Codebook

238	Neoplasm of uncertain behavior of other and unspecified sites and tissues	1	0	1
239	Neoplasms of unspecified nature	1	0	1
244	Acquired hypothyroidism	0	2	2
246	Other disorders of thyroid	1	0	1
250	Diabetes mellitus	4	1	5
255	Disorders of adrenal glands	0	1	1
271	Disorders of carbohydrate transport and metabolism	0	1	1
274	Gout	1	0	1
279	Disorders involving the immune mechanism	0	1	1
289	Other diseases of blood and blood-forming organs	1	1	2
295	Schizophrenic disorders	1	0	1
296	Affective psychoses	0	3	3
300	Neurotic disorder	1	5	6
303	Alcohol dependence syndrome	3	0	3
309	Adjustment reaction	2	0	2
311	Depressive disorder, not elsewhere classified	9	16	25
315	Specific delays in development	0	1	1
332	Parkinson's disease	5	0	5
333	Other extrapyramidal disease and abnormal movement disorders	0	1	1
337	Disorders of the autonomic nervous system	0	1	1
340	Multiple sclerosis	1	9	10
341	Other demyelinating diseases of central nervous system	1	0	1
342	Hemiplegia	2	1	3
344	Other paralytic syndromes	1	0	1
345	Epilepsy	0	4	4
346	Migraine	3	4	7
349	Other and unspecified disorders of the nervous system	1	0	1

Wisconsin Longitudinal Study Codebook

350	trigeminal nerve disorder	1	0	1
353	Nerve root and plexus disorders	0	1	1
354	Mononeuritis of upper limb and mononeuritis multiplex	1	0	1
356	Hereditary and idiopathic peripheral neuropathy	4	5	9
357	Inflammatory and toxic neuropathy	1	0	1
358	Myoneural disorders	1	0	1
359	Muscular dystrophies and other myopathies	0	1	1
362	Other retinal disorders	0	1	1
369	Blindness and low vision	5	2	7
371	Corneal opacity and other disorders of cornea	0	1	1
377	Disorders of optic nerve and visual pathways	1	0	1
379	Other eye disorders	0	2	2
386	Vertiginous syndromes and other disorders of vestibular system	2	1	3
389	Hearing loss	1	2	3
390	Rheumatic fever without mention of heart involvement	3	2	5
401	Essential hypertension	0	1	1
410	Acute myocardial infarction	13	2	15
414	Other forms of chronic ischemic heart disease	1	3	4
415	Acute pulmonary heart disease	1	1	2
427	Cardiac dysrhythmias	3	1	4
428	Heart failure	3	1	4
429	Ill-defined descriptions and complications of heart disease	11	5	16
434	Occlusion of cerebral arteries	1	0	1
436	Acute, but ill-defined, cerebrovascular disease	3	7	10
440	Atherosclerosis	1	0	1
442	Other aneurysm	1	0	1
443	Other peripheral vascular disease	0	1	1

Wisconsin Longitudinal Study Codebook

444	Arterial embolism and thrombosis	0	2	2
453	Other venous embolism and thrombosis	0	1	1
454	Varicose veins of lower extremities	0	1	1
457	Noninfectious disorders of lymphatic channels	0	1	1
459	Other disorders of circulatory system	1	0	1
486	Pneumonia, organism unspecified	1	2	3
492	Emphysema	11	0	11
493	Asthma	8	11	19
496	Chronic airway obstruction, not elsewhere specified	5	1	6
515	Postinflammatory pulmonary fibrosis	1	0	1
518	Other diseases of lung	2	2	4
519	Other diseases of respiratory system	1	0	1
530	Diseases of esophagus	1	1	2
537	Other disorders of stomach and duodenum	1	0	1
553	Other hernia of abdominal cavity without mention of obstruction or gangrene	0	1	1
555	Regional enteritis	1	5	6
556	Idiopathic proctocolitis	0	1	1
560	Intestinal obstruction without mention of hernia	0	1	1
564	Functional digestive disorders, not elsewhere classified	1	0	1
567	Peritonitis	0	1	1
573	Other disorders of liver	0	2	2
578	Gastrointestinal hemorrhage	1	0	1
586	Renal failure, unspecified	2	0	2
592	Calculus of kidney and ureter	0	1	1
593	Other disorders of kidney and ureter	1	0	1
602	Other disorders of prostate	1	0	1
617	Endometriosis	0	1	1

Wisconsin Longitudinal Study Codebook

710	Diffuse diseases of connective tissue	0	7	7
714	Rheumatoid arthritis and other inflammatory polyarthropathies	3	5	8
715	Osteoarthritis and allied disorders	5	8	13
716	Other and unspecified arthropathies	20	23	43
717	Internal derangement of knee	0	1	1
718	Other derangement of joint	1	0	1
719	Other and unspecified disorders of joint	25	23	48
721	Spondylosis and allied disorders	1	3	4
722	Intervertebral disc disorder	7	8	15
723	Other disorder of cervical region	1	1	2
724	Other and unspecified disorders of back	17	16	33
725	Polymyalgia rheumatica	0	1	1
726	Peripheral enthesopathies and allied syndromes	3	1	4
728	Disorders of muscle, ligament, and fascia	2	2	4
729	Other disorders of soft tissues	2	22	24
732	Osteochondropathies	1	0	1
733	Other disorders of bone and cartilage	2	3	5
736	Other acquired deformities of limbs	1	0	1
737	Curvature of spine	0	2	2
780	General symptoms	5	5	10
784	Symptoms involving head and neck	1	1	2
786	Symptoms involving respiratory system and other chest symptoms	3	2	5
788	Symptoms involving urinary system	0	1	1
805	Fracture of vertebral column without mention of spinal cord	3	2	5
807	Fracture of rib(s), sternum, larynx, and trachea	2	0	2
810	Fracture of clavicle	0	1	1
814	Fracture of carpal bone(s)	1	0	1

Wisconsin Longitudinal Study Codebook

818	Ill-defined fractures of upper limb	1	2	3
820	Fracture of neck of femur	0	2	2
824	Fracture of ankle	2	5	7
827	Other, multiple, and ill-defined fractures of lower limb	3	4	7
834	Dislocation of finger	0	1	1
835	Dislocation of hip	1	1	2
840	Sprains and strains of shoulder and upper arm	1	5	6
842	Sprains and strains of wrist and hand	0	1	1
843	Sprains and strains of hip and thigh	1	1	2
844	Sprains and strains of knee and leg	2	4	6
845	Sprains and strains of ankle and foot	1	0	1
847	Sprains and strains of other and unspecified parts of the back	2	4	6
881	Open wound of elbow, forearm, and wrist	1	0	1
909	Late effects of other and unspecified external causes	0	1	1
949	Burn, unspecified	0	2	2
959	Injury, other and unspecified	1	0	1
995	Certain adverse effects not elsewhere classified	0	2	2
1730	Muscle power functions	1	0	1
1780	Sensations related to muscles and movement functions	1	0	1
3410	Changing basic body position	0	1	1
3430	Lifting and carrying objects	4	3	7
3440	Fine hand use	2	1	3
3445	Hand and arm use	1	0	1
3450	Walking	3	1	4
3499	Mobility, unspecified	3	2	5
3859	Work and employment, other specified and unspecified	1	0	1
5819	Motor vehicle traffic accident of unspecified nature	1	1	2
5888	Other and unspecified fall	0	1	1



Wisconsin Longitudinal Study Codebook

5995	Injury Due To War Operations By Other And Unspecified Forms Of Conventional Warfare	1	0	1
6040	Mental And Behavioral Problems	1	0	1
6046	Other Dependence On Machines	2	0	2
6058	Encounter For Other And Unspecified Procedures And Aftercare	1	2	3
7000	Procedures and Interventions, NEC	2	1	3
7002	Other operations on skull, brain, and cerebral meninges	0	1	1
7004	Operations on cranial and peripheral nerves	1	2	3
7013	Operations on lens	1	1	2
7020	Other operations on middle and inner ear	1	0	1
7033	Other operations on lung and bronchus	1	0	1
7035	Operations on valves and septa of heart	4	0	4
7036	Operations on vessels of heart	4	4	8
7037	Other operations on heart and pericardium	5	1	6
7039	Other operations on vessels	5	0	5
7044	Other operations on stomach	0	1	1
7046	Other operations on intestine	1	2	3
7051	Operations on gallbladder and biliary tract	1	0	1
7055	Operations on kidney	0	2	2
7057	Operations on urinary bladder	1	0	1
7060	Operations on prostate and seminal vesicles	1	0	1
7068	Other incision and excision of uterus	0	2	2
7080	Incision and excision of joint structures	0	1	1
7081	Repair and plastic operations on joint structures	44	33	77
7083	Operations on muscle, tendon, fascia, and bursa except hand	2	1	3
7084	Other procedures on musculoskeletal system	6	0	6

Note: See COR867 in Appendix R for codes and details regarding cause of death coding.

**ax231bre: Collapsed - What was the MOST SERIOUS condition that limited what you were able to do, either on or off the job? Added 11/07.**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x733

Value	Label	Frequencies		
		Male	Female	Total
-18	NOT CODEABLE	3	3	6
-3	REFUSED	1	0	1
-2	INAPPROPRIATE INAP, R NEVER NEEDED HELP, AX230RE NE 1	1425	1693	3118
10	Infectious and Parasitic Diseases	8	6	14
20	Neoplasms	13	16	29
30	Endocrine, Nutritional, Metabolic, Immunity	6	6	12
40	Blood and Blood-Forming Organs	1	1	2
50	Mental Disorders	16	25	41
60	Nervous System and Sense Organs	31	36	67
70	Circulatory System	42	29	71
80	Respiratory System	29	16	45
90	Digestive System	5	12	17
100	Genitourinary system	4	2	6
130	Musculoskeletal System and Connective Tissue	91	126	217
160	Symptoms, Signs, and Ill-Defined Conditions	9	9	18
170	Injury and Poisoning	22	38	60
180	ICD-9 E Codes	2	2	4
190	ICD-9 V Codes	4	2	6
200	ICD-9 Volume 3 Headings	80	52	132
210	ICF Body Functions	2	0	2
230	ICF Activities and Participation	14	8	22

**ax232are: What was the SECOND MOST SERIOUS condition that limited what you were able to do, either on or off the job? Added 11/07.**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone

Source variables: h\_x735

\*NOT AVAILABLE ON PUBLIC RELEASE\*

Value	Label	Frequencies		
		Male	Female	Total
-18	COULD NOT CODE	2	6	8
-2	INAPPROPRIATE INAP, AX231ARE NE 1	1613	1869	3482
-1	DON'T KNOW	2	2	4
40	Other bacterial diseases	0	1	1
45	Acute poliomyelitis	1	0	1
70	Viral hepatitis	0	1	1
88	Other arthropod-borne diseases	1	1	2
157	Malignant neoplasm of pancreas	1	0	1
172	Malignant neoplasm of skin	2	1	3
174	Malignant neoplasm of female breast	0	5	5
185	Malignant neoplasm of prostate	3	0	3
188	Malignant neoplasm of bladder	1	0	1
190	Malignant neoplasm of eye	1	0	1
199	Malignant neoplasm without specification of site	3	4	7
201	Hodgkin's disease	1	0	1
239	Neoplasms of unspecified nature	1	1	2
246	Other disorders of thyroid	0	1	1
250	Diabetes mellitus	12	11	23
272	Disorders of lipid metabolism	1	1	2
278	Obesity and other hyperalimentation	1	4	5
286	Coagulation defects	1	0	1

Wisconsin Longitudinal Study Codebook

289	Other diseases of blood and blood-forming organs	1	0	1
300	Neurotic disorder	1	1	2
311	Depressive disorder, not elsewhere classified	4	4	8
314	Hyperkinetic syndrome of childhood	0	1	1
340	Multiple sclerosis	1	1	2
342	Hemiplegia	1	0	1
346	Migraine	2	4	6
354	Mononeuritis of upper limb and mononeuritis multiplex	2	2	4
357	Inflammatory and toxic neuropathy	0	1	1
362	Other retinal disorders	1	0	1
365	Glaucoma	1	0	1
369	Blindness and low vision	3	0	3
383	Mastoiditis and related conditions	0	1	1
386	Vertiginous syndromes and other disorders of vestibular system	0	1	1
389	Hearing loss	1	0	1
401	Essential hypertension	4	4	8
410	Acute myocardial infarction	5	4	9
414	Other forms of chronic ischemic heart disease	0	1	1
415	Acute pulmonary heart disease	1	0	1
427	Cardiac dysrhythmias	2	1	3
428	Heart failure	0	3	3
429	Ill-defined descriptions and complications of heart disease	5	2	7
433	Occlusion and stenosis of precerebral arteries	1	0	1
436	Acute, but ill-defined, cerebrovascular disease	1	0	1
443	Other peripheral vascular disease	0	1	1
444	Arterial embolism and thrombosis	0	1	1
453	Other venous embolism and thrombosis	0	1	1

Wisconsin Longitudinal Study Codebook

459	Other disorders of circulatory system	1	0	1
471	Nasal polyps	1	0	1
473	Chronic sinusitis	0	1	1
478	Other diseases of upper respiratory tract	1	0	1
486	Pneumonia, organism unspecified	0	1	1
487	Influenza	1	0	1
493	Asthma	1	4	5
501	Asbestosis	1	0	1
512	Pneumothorax	0	1	1
518	Other diseases of lung	2	1	3
525	Other diseases and conditions of the teeth and supporting structures	1	0	1
537	Other disorders of stomach and duodenum	0	1	1
540	Acute appendicitis	3	1	4
541	Appendicitis, unqualified	2	1	3
553	Other hernia of abdominal cavity without mention of obstruction or gangrene	1	1	2
555	Regional enteritis	0	1	1
557	Vascular insufficiency of intestine	0	1	1
560	Intestinal obstruction without mention of hernia	0	1	1
564	Functional digestive disorders, not elsewhere classified	0	2	2
568	Other disorders of peritoneum	0	1	1
575	Other disorders of gallbladder	2	0	2
577	Diseases of pancreas	0	1	1
583	Nephritis and nephropathy, not specified as acute or chronic	0	2	2
586	Renal failure, unspecified	2	0	2
592	Calculus of kidney and ureter	2	1	3
593	Other disorders of kidney and ureter	0	2	2
596	Other disorders of bladder	2	0	2

Wisconsin Longitudinal Study Codebook

600	Hyperplasia of prostate	1	0	1
620	Noninflammatory disorders of ovary, fallopian tube, and broad ligament	0	1	1
646	Other complications of pregnancy, not elsewhere classified	0	1	1
714	Rheumatoid arthritis and other inflammatory polyarthropathies	2	3	5
715	Osteoarthritis and allied disorders	1	2	3
716	Other and unspecified arthropathies	5	12	17
717	Internal derangement of knee	1	1	2
719	Other and unspecified disorders of joint	6	7	13
721	Spondylosis and allied disorders	2	1	3
722	Intervertebral disc disorder	4	6	10
724	Other and unspecified disorders of back	4	13	17
726	Peripheral enthesopathies and allied syndromes	1	1	2
727	Other disorders of synovium, tendon, and bursa	0	1	1
729	Other disorders of soft tissues	3	5	8
733	Other disorders of bone and cartilage	0	1	1
737	Curvature of spine	1	0	1
754	Certain congenital musculoskeletal deformities	0	1	1
780	General symptoms	3	3	6
784	Symptoms involving head and neck	0	2	2
785	Symptoms involving cardiovascular system	1	0	1
786	Symptoms involving respiratory system and other chest symptoms	4	0	4
799	Other ill-defined and unknown cause of morbidity and mortality	1	0	1
805	Fracture of vertebral column without mention of spinal cord	1	0	1
818	Ill-defined fractures of upper limb	4	2	6
820	Fracture of neck of femur	0	1	1
822	Fracture of patella	0	1	1

Wisconsin Longitudinal Study Codebook

824	Fracture of ankle	0	1	1
827	Other, multiple, and ill-defined fractures of lower limb	5	0	5
829	Fracture of unspecified bones	3	0	3
840	Sprains and strains of shoulder and upper arm	3	0	3
844	Sprains and strains of knee and leg	1	0	1
845	Sprains and strains of ankle and foot	1	2	3
847	Sprains and strains of other and unspecified parts of the back	1	2	3
850	Concussion	1	0	1
957	Injury to other and unspecified nerves	0	1	1
979	Poisoning by other vaccines and biological substances	0	1	1
995	Certain adverse effects not elsewhere classified	1	3	4
3410	Changing basic body position	0	1	1
3430	Lifting and carrying objects	0	1	1
3440	Fine hand use	0	1	1
3445	Hand and arm use	1	1	2
3450	Walking	1	1	2
5819	Motor vehicle traffic accident of unspecified nature	2	1	3
5885	Fall On Same Level From Slipping, Tripping, Or Stumbling	0	1	1
5888	Other and unspecified fall	0	1	1
5928	Other And Unspecified Environmental And Accidental Causes	1	0	1
5947	Other And Unspecified Drugs And Medicinal Substances Causing Adverse Effects In Therapeutic Use	0	1	1
5966	Assault By Cutting And Piercing Instrument	1	0	1
7000	Procedures and Interventions, NEC	0	1	1
7004	Operations on cranial and peripheral nerves	1	1	2
7016	Operations on orbit and eyeball	1	0	1
7028	Operations on tonsils and adenoids	0	1	1
7029	Operation on pharynx	1	0	1

Wisconsin Longitudinal Study Codebook

7032	Excision of lung and bronchus	0	1	1
7035	Operations on valves and septa of heart	1	0	1
7036	Operations on vessels of heart	2	0	2
7037	Other operations on heart and pericardium	3	1	4
7038	Incision, excision, and occlusion of vessels	0	2	2
7039	Other operations on vessels	3	1	4
7051	Operations on gallbladder and biliary tract	2	1	3
7053	Repair of hernia	1	0	1
7055	Operations on kidney	1	1	2
7057	Operations on urinary bladder	0	1	1
7060	Operations on prostate and seminal vesicles	1	0	1
7065	Operations on ovary	0	1	1
7068	Other incision and excision of uterus	0	5	5
7074	Cesarean section and removal of fetus	0	1	1
7077	Incision, excision, and division of other bones	0	1	1
7078	Other operations on bones, except facial bones	1	0	1
7079	Reduction of fracture and dislocation	0	1	1
7080	Incision and excision of joint structures	0	1	1
7081	Repair and plastic operations on joint structures	12	10	22
7083	Operations on muscle, tendon, fascia, and bursa except hand	4	1	5

Note: See COR867 in Appendix R for codes and details regarding cause of death coding.

**ax232bre: Collapsed - What was the SECOND MOST SERIOUS condition that limited what you were able to do, either on or off the job? Added 11/07.**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x735



Value	Label	Frequencies		
		Male	Female	Total
-18	NOT CODEABLE	2	6	8
-2	INAPPROPRIATE INAP, R NEVER NEEDED HELP, AX231ARE NE 1	1613	1869	3482
-1	DON'T KNOW	2	2	4
10	Infectious and Parasitic Diseases	2	3	5
20	Neoplasms	13	11	24
30	Endocrine, Nutritional, Metabolic, Immunity	14	17	31
40	Blood and Blood-Forming Organs	2	0	2
50	Mental Disorders	5	6	11
60	Nervous System and Sense Organs	12	10	22
70	Circulatory System	20	18	38
80	Respiratory System	7	8	15
90	Digestive System	9	11	20
100	Genitourinary system	7	6	13
110	Complications of Pregnancy, Childbirth, Puerperium	0	1	1
130	Musculoskeletal System and Connective Tissue	30	53	83
140	Congenital Anomalies	0	1	1
160	Symptoms, Signs, and Ill-Defined Conditions	9	5	14
170	Injury and Poisoning	21	14	35
180	ICD-9 E Codes	4	4	8
200	ICD-9 Volume 3 Headings	34	32	66
230	ICF Activities and Participation	2	5	7

**ax301re: During the past four weeks, have you been able to see well enough to read ordinary newsprint without glasses or contact lenses?**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x20

Frequencies				
Value	Label	Male	Female	Total
-3	REFUSED	0	1	1
-1	DON'T KNOW	1	1	2
1	YES	500	581	1081
2	NO	1307	1499	2806

Note: See HUI documentation.

**ax302re: Have you been able to see well enough to read ordinary newsprint WITH glasses or contact lenses?**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x30

Frequencies				
Value	Label	Male	Female	Total
-3	REFUSED	0	1	1
-2	INAPPROPRIATE INAP, CAN READ NEWSPRINT W/O GLASSES	500	581	1081
-1	DON'T KNOW	1	1	2
1	YES	1292	1491	2783
2	NO	15	8	23

Note: See HUI documentation.

**ax303re: During the past 4 weeks, have you been able to see at all?**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x40

Value	Label	Frequencies		
		Male	Female	Total
-3	REFUSED	0	1	1
-2	INAPPROPRIATE INAP, CAN READ NEWSPRINT W/O GLASSES	1792	2072	3864
1	YES	16	8	24
2	NO	0	1	1

Note: See HUI documentation.

**ax304re: During the past 4 weeks, have you been able to see well enough to recognize a friend on the other side of the street without glasses or contact lenses?**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x50

Value	Label	Frequencies		
		Male	Female	Total
-3	REFUSED	0	2	2
-2	INAPPROPRIATE INAP, R CANNOT SEE AT ALL	0	1	1
-1	DON'T KNOW	20	21	41
1	YES	1415	1356	2771
2	NO	373	702	1075

Note: See HUI documentation.

**ax305re: Have you been able to see well enough to recognize a friend on the other side of the street with glasses or contact lenses?**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x60

Value	Label	Frequencies		
		Male	Female	Total
-3	REFUSED	0	2	2
-2	INAPPROPRIATE INAP, RECOG FRIEND W/O GLASSES	1415	1357	2772
-1	DON'T KNOW	6	4	10
1	YES	377	707	1084
2	NO	10	12	22

Note: See HUI documentation.

**ax306re: During the past four weeks, without a hearing aid and while in a group conversation with at least three other people, have you been able to hear what is said?**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x70

Value	Label	Frequencies		
		Male	Female	Total
-3	REFUSED	2	1	3
-1	DON'T KNOW	12	4	16
1	YES	1571	2015	3586
2	NO	223	62	285

Note: See HUI documentation.

**ax307re: Have you been able to hear what is said in a group conversation with at least three other people WITH a hearing aid?**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x80

Value	Label	Frequencies		
		Male	Female	Total
-3	REFUSED	0	1	1
-2	INAPPROPRIATE INAP, CAN HEAR GROUP CONVO W/O HEARING AID	1571	2015	3586
-1	DON'T KNOW	117	36	153
1	YES	94	23	117
2	NO	26	7	33

Note: See HUI documentation.

**ax308re: During the past four weeks, without a hearing aid, in a conversation with one other person in a quiet room, have you been able to hear what is said?**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x90

Value	Label	Frequencies		
		Male	Female	Total
-3	REFUSED	0	1	1
-2	INAPPROPRIATE INAP, CAN HEAR GROUP CONVO WITH HEARING AID	1571	2015	3586
-1	DON'T KNOW	4	3	7
1	YES	215	48	263
2	NO	18	15	33

Note: See HUI documentation.

**ax309re: During the past four weeks in a conversation with one other person in a quiet room, have you been able to hear what is said: What about WITH a hearing aid?**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x100

Value	Label	Frequencies		
		Male	Female	Total
-3	REFUSED	0	1	1
-2	INAPPROPRIATE INAP, CAN HEAR ONE OTHER W/O HEARING AID	1786	2063	3849
-1	DON'T KNOW	6	6	12
1	YES	14	12	26
2	NO	2	0	2

Note: See HUI documentation.

**ax310re: During the past four weeks, have people who do not know you understood you completely when you speak?**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x110

Value	Label	Frequencies		
		Male	Female	Total
-3	REFUSED	0	1	1
-1	DON'T KNOW	7	6	13
1	YES	1738	2029	3767
2	NO	63	46	109

Note: See HUI documentation.

**ax311re: Have people understood you partially when you speak?**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x120

Value	Label	Frequencies		
		Male	Female	Total
-3	REFUSED	0	1	1
-2	INAPPROPRIATE INAP, UNDERSTOOD BY STRANGERS	1738	2029	3767
-1	DON'T KNOW	3	1	4
1	YES	64	49	113
2	NO	3	2	5

Note: See HUI documentation.

### **ax312re: During the past four weeks, have people who know you well understood you completely when you speak?**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x130

Value	Label	Frequencies		
		Male	Female	Total
-3	REFUSED	1	1	2
-2	INAPPROPRIATE INAP, UNDERSTOOD BY STRANGERS	1738	2029	3767
-1	DON'T KNOW	1	1	2
1	YES	44	40	84
2	NO	24	11	35

Note: See HUI documentation.

### **ax313re: Have they understood you partially when you speak?**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x140

Value	Label	Frequencies		
		Male	Female	Total
-3	REFUSED	0	1	1
-2	INAPPROPRIATE INAP, UNDERSTOOD BY FRIEND/FAMILY	1782	2069	3851
-1	DON'T KNOW	0	1	1
1	YES	25	11	36
2	NO	1	0	1

Note: See HUI documentation.

### **ax314re: During the past four weeks, have you been able to speak at all?**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x150

Value	Label	Frequencies		
		Male	Female	Total
-3	REFUSED	0	1	1
-2	INAPPROPRIATE INAP, UNDERSTOOD PARTIALLY	1807	2080	3887
1	YES	1	1	2

Note: See HUI documentation.

### **ax315re: During the past four weeks, have you been able to bend, lift, jump and run without difficulty and without help or equipment of any kind?**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x160



Frequencies				
Value	Label	Male	Female	Total
-3	REFUSED	0	2	2
-1	DON'T KNOW	3	0	3
1	YES	1390	1643	3033
2	NO	415	437	852

Note: See HUI documentation.

**ax316re: Have you been able to walk around the neighborhood without difficulty and without help or equipment of any kind?**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x170

Frequencies				
Value	Label	Male	Female	Total
-3	REFUSED	0	2	2
-2	INAPPROPRIATE INAP, CAN DO ACTIVITIES W/O HELP/EQUIPMENT	1390	1643	3033
-1	DON'T KNOW	2	1	3
1	YES	292	290	582
2	NO	124	146	270

Note: See HUI documentation.

**ax317re: Have you been able to walk around the neighborhood with difficulty but without help or equipment of any kind?**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x180

Value	Label	Frequencies		
		Male	Female	Total
-3	REFUSED	0	2	2
-2	INAPPROPRIATE INAP, WALKS AROUND W/O DIFFICULTY/EQUIPMENT	1682	1933	3615
-1	DON'T KNOW	2	0	2
1	YES	67	74	141
2	NO	57	73	130

Note: See HUI documentation.

### **ax318re: During the past four weeks, have you been able to walk at all?**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone

Source variables: h\_x190

Value	Label	Frequencies		
		Male	Female	Total
-3	REFUSED	0	1	1
-2	INAPPROPRIATE INAP, WALKS AROUND WITH DIFFICULTY, W/O EQUIPMENT	1749	2007	3756
1	YES	57	60	117
2	NO	2	14	16

Note: See HUI documentation.

### **ax319re: Have you needed mechanical support, such as braces or a cane or crutches, to be able to walk around the neighborhood?**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone

Source variables: h\_x200

Value	Label	Frequencies		
		Male	Female	Total
-3	REFUSED	0	2	2
-2	INAPPROPRIATE INAP, R CANNOT WALK	1751	2021	3772
-1	DON'T KNOW	3	1	4
1	YES	34	38	72
2	NO	20	20	40

Note: See HUI documentation.

### **ax320re: Have you needed the help of another person to walk?**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x210

Value	Label	Frequencies		
		Male	Female	Total
-3	REFUSED	0	1	1
-2	INAPPROPRIATE INAP, WALKS AROUND WITH DIFFICULTY, W/O EQUIPMENT	1751	2021	3772
-1	DON'T KNOW	1	0	1
1	YES	7	18	25
2	NO	49	42	91

Note: See HUI documentation.

### **ax321re: Have you needed a wheelchair to get around the neighborhood?**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x220

Value	Label	Frequencies		
		Male	Female	Total
-3	REFUSED	0	2	2
-2	INAPPROPRIATE INAP, WALKS AROUND WITH DIFFICULTY, W/O EQUIPMENT	1749	2007	3756
1	YES	11	22	33
2	NO	48	51	99

Note: See HUI documentation.

**ax322re: Have you needed the help of another person to get around in the wheelchair?**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x230

Value	Label	Frequencies		
		Male	Female	Total
-3	REFUSED	0	2	2
-2	Inappropriate INAP, ax321re = 2 or -2	1797	2058	3855
1	YES	6	17	23
2	NO	5	5	10

Note: See HUI documentation.

**ax323re: During the past four weeks, have you had full use of both hands and 10 fingers?**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x240

Frequencies				
Value	Label	Male	Female	Total
-3	REFUSED	0	2	2
1	YES	1766	2042	3808
2	NO	42	38	80

Note: See HUI documentation.

**ax324re: Have you needed the help of another person because of limitations in the use of your hands or fingers?**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x250

Frequencies				
Value	Label	Male	Female	Total
-3	REFUSED	0	2	2
-2	INAPPROPRIATE INAP, CAN USE BOTH HANDS, 10 FINGERS	1766	2042	3808
1	YES	15	23	38
2	NO	27	15	42

Note: See HUI documentation.

**ax325re: Have you needed the help of another person with some tasks, most tasks, or all tasks?**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x260

Value	Label	Frequencies		
		Male	Female	Total
-3	REFUSED	0	2	2
-2	INAPPROPRIATE INAP, DOES NOT NEED HELP B/C LIMITATION	1793	2057	3850
1	YES	11	20	31
2	NO	3	3	6
3		1	0	1

Note: See HUI documentation.

**ax326re: Have you needed special equipment, for example, special tools to help with dressing or eating, because of limitations in the use of your hands or fingers?**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x270

Value	Label	Frequencies		
		Male	Female	Total
-3	REFUSED	0	2	2
-2	INAPPROPRIATE INAP, CAN USE BOTH HANDS, 10 FINGERS	1766	2042	3808
1	YES	4	5	9
2	NO	38	33	71

Note: See HUI documentation.

**ax327re: During the past four weeks, have you been able to eat, bathe, dress and use the toilet without difficulty?**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x280

Frequencies				
Value	Label	Male	Female	Total
-3	REFUSED	0	3	3
1	YES	1791	2055	3846
2	NO	17	24	41

Note: See HUI documentation.

**ax328re: Have you needed the help of another person to eat, bathe, dress or use the toilet?**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x290

Frequencies				
Value	Label	Male	Female	Total
-3	REFUSED	0	3	3
-2	INAPPROPRIATE INAP, CAN DO ACTIVITIES W/O DIFFICULTY	1791	2055	3846
1	YES	9	15	24
2	NO	8	9	17

Note: See HUI documentation.

**ax329re: Have you needed special equipment or tools to eat, bathe, dress or use the toilet?**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x300

Value	Label	Frequencies		
		Male	Female	Total
-3	REFUSED	0	3	3
-2	INAPPROPRIATE INAP, CAN DO ACTIVITIES W/O DIFFICULTY	1791	2055	3846
1	YES	3	12	15
2	NO	14	12	26

Note: See HUI documentation.

**ax330re: During the past four weeks, have you been feeling happy or unhappy?**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x310

Value	Label	Frequencies		
		Male	Female	Total
-3	REFUSED	1	4	5
-1	DON'T KNOW	16	6	22
1	HAPPY	1721	1959	3680
2	UNHAPPY	70	113	183

Note: See HUI documentation.

**ax331re: During the past four weeks, would you describe yourself as having felt happy and interested in life, or somewhat happy?**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x320



Value	Label	Frequencies		
		Male	Female	Total
-3	REFUSED	2	2	4
-2	Inappropriate INAP, R has felt unhappy for the past four weeks	70	113	183
-1	DON'T KNOW	5	0	5
1	HAPPY AND INTERESTED IN LIFE	1535	1804	3339
2	SOMEWHAT HAPPY	196	163	359

Note: See HUI documentation.

**ax332re: During the past four weeks, would you describe yourself as having felt somewhat unhappy, very unhappy, or so unhappy that life is not worthwhile?**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x330

Value	Label	Frequencies		
		Male	Female	Total
-3	REFUSED	3	2	5
-2	INAPPROPRIATE INAP (AX331RE = 1 OR 2)	1731	1967	3698
-1	DON'T KNOW	5	0	5
1	SOMEWHAT UNHAPPY	60	90	150
2	VERY UNHAPPY	7	20	27
3	SO UNHAPPY THAT LIFE IS NOT WORTHWHILE	2	3	5

Note: See HUI documentation.

**ax333re: During the past four weeks, did you ever feel fretful, angry, irritable, anxious or depressed?**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x340

Frequencies				
Value	Label	Male	Female	Total
-3	REFUSED	1	4	5
-1	DON'T KNOW	1	4	5
1	YES	841	1255	2096
2	NO	965	819	1784

Note: See HUI documentation.

**ax334re: How often did you feel this way: rarely, occasionally, often or almost always?**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x350

Frequencies				
Value	Label	Male	Female	Total
-3	REFUSED	3	6	9
-2	INAPPROPRIATE INAP (AX333RE != 1)	965	819	1784
-1	DON'T KNOW	3	1	4
1	RARELY	448	579	1027
2	OCCASIONALLY	350	582	932
3	OFTEN	32	83	115
4	ALMOST ALWAYS	7	12	19

Note: See HUI documentation.

**ax335re: During the past four weeks, did you feel extremely fretful, angry, irritable, anxious or depressed, to the point of needing professional help?**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x360

Value	Label	Frequencies		
		Male	Female	Total
-3	REFUSED	0	1	1
-2	INAPPROPRIATE INAP, R HAS NOT FELT THIS WAY	967	824	1791
-1	DON'T KNOW	1	2	3
1	YES	23	53	76
2	NO	817	1202	2019

Note: See HUI documentation.

**ax336re: How would you describe your ability to remember things during the past four weeks? Were you able to remember most things, somewhat forgetful, very forgetful, or unable to remember anything at all?**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x370

Value	Label	Frequencies		
		Male	Female	Total
-3	REFUSED	0	2	2
-1	DON'T KNOW	1	3	4
1	REMEMBER MOST THINGS	1339	1646	2985
2	SOMEWHAT FORGETFUL	453	420	873
3	VERY FORGETFUL	15	11	26

Note: See HUI documentation.

**ax337re: How would you describe your ability to think and solve day to day problems, during the past 4 weeks? Were you able to think clearly and solve problems, had a little difficulty, had a great deal of difficulty, or unable to think or solve problems?**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x380

Value	Label	Frequencies		
		Male	Female	Total
-3	REFUSED	1	2	3
-1	DON'T KNOW	0	2	2
1	CAN THINK CLEARLY AND SOLVE PROBLEMS	1610	1918	3528
2	A LITTLE DIFFICULTY	148	119	267
3	SOME DIFFICULTY	44	40	84
4	GREAT DEAL OF DIFFICULTY	5	1	6

Note: See HUI documentation.

### **ax338re: Have you had any trouble with pain or discomfort during the past four weeks?**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x390

Value	Label	Frequencies		
		Male	Female	Total
-3	REFUSED	0	3	3
1	YES	798	1023	1821
2	NO	1010	1056	2066

Note: See HUI documentation.

### **ax339re: How many of your activities, during the past four weeks, were limited by pain or discomfort? Would you say none, a few, some, most, or all?**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x400

Value	Label	Frequencies		
		Male	Female	Total
-3	REFUSED	1	2	3
-2	INAPPROPRIATE INAP, HAD NO PAIN (AX338RE = 2)	1010	1056	2066
-1	DON'T KNOW	1	0	1
1	NONE	344	473	817
2	A FEW	242	303	545
3	SOME	136	176	312
4	MOST	54	49	103
5	ALL	20	23	43

Note: See HUI documentation.

**ax340re: Because of any impairment or health problems, do you need the help of other persons in handling routine needs, such as everyday household chores, doing necessary business, shopping or getting around for other purposes?**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x740

Value	Label	Frequencies		
		Male	Female	Total
-3	REFUSED	1	3	4
-1	DON'T KNOW	0	1	1
1	YES	55	105	160
2	NO	1752	1973	3725

**ax341re: Has a doctor told you that you have high blood pressure or hypertension?**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x410

**Frequencies**

Value	Label	Male	Female	Total
-3	REFUSED	0	3	3
-1	DON'T KNOW	5	4	9
1	YES	917	844	1761
2	NO	886	1231	2117

**ax342re: Has a doctor ever told you that you have diabetes?**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone

Source variables: h\_x420

**Frequencies**

Value	Label	Male	Female	Total
-3	REFUSED	0	3	3
-1	DON'T KNOW	1	1	2
1	YES	296	185	481
2	NO	1511	1893	3404

**ax343re: In what year was this first diagnosed?**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone

Source variables: h\_x430

Value	Label	Frequencies		
		Male	Female	Total
-2	INAPPROPRIATE INAP, DIABETES: NO/DK/R	1512	1897	3409
-1	DON'T KNOW	4	3	7
1950 - 1990		61	41	102
1991 - 1997		69	41	110
1998 - 2000		60	41	101
2001 - 2003		80	50	130
2004 - 2005		22	9	31

**ax344re: In order to treat or control your diabetes, are you now taking medications that you swallow?**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x460

Value	Label	Frequencies		
		Male	Female	Total
-2	INAPPROPRIATE INAP, DIABETES: NO/DON'T KNOW/REFUSED	1512	1897	3409
1	YES	211	130	341
2	NO	85	55	140

**ax345re: Are you now using insulin shots or a pump?**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x470

Value	Label	Frequencies		
		Male	Female	Total
-2	INAPPROPRIATE INAP, DIABETES: NO/DON'T KNOW/REFUSED	1512	1897	3409
-1	DON'T KNOW	0	1	1
1	YES	47	46	93
2	NO	249	138	387

**ax346re: Has a doctor ever told you that you have high blood sugar?**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x480

Value	Label	Frequencies		
		Male	Female	Total
-3	REFUSED	0	4	4
-2	INAPPROPRIATE INAP, R HAS DIABETES	296	185	481
-1	DON'T KNOW	4	3	7
1	YES	46	31	77
2	NO	1462	1859	3321

**ax347re: In what year was this first diagnosed?**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x490



Value	Label	Frequencies		
		Male	Female	Total
-2	INAPPROPRIATE INAP, DOESN'T HAVE HIGH BLOOD SUGAR	1762	2051	3813
-1	DON'T KNOW	1	3	4
1960 - 1991		10	4	14
1995 - 2001		11	7	18
2002		9	5	14
2003 - 2004		15	11	26
2005		0	1	1

**ax348re: Has a doctor ever told you that you have cancer or a malignant tumor not including minor skin cancers?**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x520

Value	Label	Frequencies		
		Male	Female	Total
-3	REFUSED	1	4	5
-1	DON'T KNOW	0	2	2
1	YES	245	221	466
2	NO	1562	1855	3417

**ax349re: In what year was this diagnosed?**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x530

Value	Label	Frequencies		
		Male	Female	Total
-2	INAPPROPRIATE INAP, CANCER: NO/DK/R	1563	1861	3424
-1	DON'T KNOW	0	1	1
1962 - 1991		33	64	97
1992 - 1997		56	59	115
1998 - 2000		68	39	107
2001 - 2003		72	44	116
2004 - 2005		16	14	30

### **ax350are: In which organ or part of your body did this cancer occur?**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone

Source variables: h\_x560

\*NOT AVAILABLE ON PUBLIC RELEASE\*

Value	Label	Frequencies		
		Male	Female	Total
-18	COULD NOT CODE	1	0	1
-2	INAPPROPRIATE INAP, R NEVER NEEDED HELP, AX340RE NE 1 AND AV031RE NE 1	1563	1861	3424
145	Malignant neoplasm of other and unspecified parts of the mouth	2	1	3
150	Malignant neoplasm of esophagus	1	0	1
151	Malignant neoplasm of stomach	2	1	3
153	Malignant neoplasm of colon	21	12	33
154	Malignant neoplasm of rectum, rectosigmoid junction, and anus	1	1	2
155	Malignant neoplasm of liver and intrahepatic bile ducts	2	0	2
156	Malignant neoplasm of gallbladder and extrahepatic bile ducts	0	1	1
157	Malignant neoplasm of pancreas	4	1	5

Wisconsin Longitudinal Study Codebook

159	Malignant neoplasm of other and ill-defined sites within the digestive organs and peritoneum	1	1	2
160	Malignant neoplasm of nasal cavities, middle ear, and accessory sinuses	1	2	3
161	Malignant neoplasm of larynx	3	1	4
162	Malignant neoplasm of trachea, bronchus, and lung	4	6	10
170	Malignant neoplasm of bone and articular cartilage	2	2	4
171	Malignant neoplasm of connective and other soft tissue	1	0	1
172	Malignant neoplasm of skin	11	5	16
174	Malignant neoplasm of female breast	1	113	114
179	Malignant neoplasm of uterus, part unspecified	0	17	17
180	Malignant neoplasm of cervix uteri	0	12	12
182	Malignant neoplasm of body of uterus	0	3	3
183	Malignant neoplasm of ovary and other uterine adnexa	0	8	8
184	Malignant neoplasm of other and unspecified female genital organs	0	2	2
185	Malignant neoplasm of prostate	132	0	132
186	Malignant neoplasm of testis	2	0	2
188	Malignant neoplasm of bladder	22	3	25
189	Malignant neoplasm of kidney and other unspecified urinary organs	6	2	8
190	Malignant neoplasm of eye	0	1	1
191	Malignant neoplasm of brain	1	3	4
193	Malignant neoplasm of thyroid gland	2	7	9
195	Malignant neoplasm of other and ill-defined sites	10	8	18
199	Malignant neoplasm without specification of site	1	0	1
201	Hodgkin's disease	1	0	1
202	Other malignant neoplasms of lymphoid and histiocytic tissue	5	5	10
203	Multiple myeloma and immunoproliferative neoplasms	1	0	1
208	Leukemia of unspecified cell type	4	3	7

**ax351re: Has a doctor ever told you that you had a heart attack, coronary heart disease, angina, congestive heart failure, or other heart problems?**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x570

Frequencies				
Value	Label	Male	Female	Total
-3	REFUSED	0	3	3
-1	DON'T KNOW	0	2	2
1	YES	444	196	640
2	NO	1364	1881	3245

**ax352re: Did you have a heart attack or myocardial infarction?**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x580

Frequencies				
Value	Label	Male	Female	Total
-2	INAPPROPRIATE INAP, NO HEART PROBLEMS	1364	1886	3250
-1	DON'T KNOW	8	5	13
1	YES	224	45	269
2	NO	212	146	358

**ax353re: In what year did you have your most recent heart attack or myocardial infarction?**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x590

Value	Label	Frequencies		
		Male	Female	Total
-2	INAPPROPRIATE INAP, NEVER HAD HEART ATTACK/MI	1584	2037	3621
-1	DON'T KNOW	12	3	15
1954 - 1989		49	4	53
1990 - 1995		54	8	62
1996 - 1999		45	14	59
2000 - 2002		40	11	51
2003 - 2005		24	5	29

**ax354re: Have you ever had a special test or treatment of your heart where tubes were inserted into your veins or arteries: cardiac catheterization, coronary angiogram, or angioplasty?**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x620

Value	Label	Frequencies		
		Male	Female	Total
-2	INAPPROPRIATE INAP, NO HEART PROBLEMS	1364	1886	3250
-1	DON'T KNOW	2	2	4
1	YES	341	107	448
2	NO	101	87	188

**ax355re: Have you ever had surgery on your heart?**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x630

Value	Label	Frequencies		
		Male	Female	Total
-2	INAPPROPRIATE INAP, NO HEART PROBLEMS	1364	1886	3250
-1	DON'T KNOW	1	1	2
1	YES	195	38	233
2	NO	248	157	405

**ax356re: Has a doctor ever told you that you had a stroke?**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x640

Value	Label	Frequencies		
		Male	Female	Total
-3	REFUSED	0	3	3
-1	DON'T KNOW	1	3	4
1	YES	67	46	113
2	NO	1740	2030	3770

**ax357re: In what year did you last have a stroke?**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x650

Value	Label	Frequencies		
		Male	Female	Total
-2	INAPPROPRIATE INAP, STROKE: NO/DK/R	1741	2036	3777
-1	DON'T KNOW	3	2	5
1966 - 1992		11	11	22
1993 - 1998		16	10	26
1999 - 2001		19	14	33
2002 - 2004		18	9	27

**ax358re: Do you still have any remaining health problems because of your stroke, such as muscle weakness or difficulty speaking?**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x680

Value	Label	Frequencies		
		Male	Female	Total
-2	INAPPROPRIATE INAP, STROKE: NO/DON'T KNOW/REFUSED	1741	2036	3777
-1	DON'T KNOW	0	1	1
1	YES	21	8	29
2	NO	46	37	83

**ax359re: Do you sometimes have pain, stiffness, or swelling in your joints?**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x690

Frequencies				
Value	Label	Male	Female	Total
-3	REFUSED	0	3	3
-1	DON'T KNOW	0	2	2
1	YES	944	1311	2255
2	NO	864	766	1630

**ax360re: Have you ever had, or has a doctor ever told you that you have arthritis or rheumatism?**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x700

Frequencies				
Value	Label	Male	Female	Total
-3	REFUSED	0	3	3
-1	DON'T KNOW	2	3	5
1	YES	795	983	1778
2	NO	1011	1093	2104

**ax361re: Have you ever been diagnosed with a mental illness?**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone  
Source variables: h\_x710

Frequencies				
Value	Label	Male	Female	Total
-3	REFUSED	2	4	6
-1	DON'T KNOW	2	1	3
1	YES	33	67	100
2	NO	1771	2010	3781



# **ax362are: What was that specific mental illness diagnosis? Added 11/07.**

Data source: Graduate Spouse Respondent    Collected in: 2004    Mode: phone

Source variables: h\_x720

\*NOT AVAILABLE ON PUBLIC RELEASE\*

Value	Label	Frequencies		
		Male	Female	Total
-2	INAPPROPRIATE INAP, AX361RE NE 1	1775	2015	3790
-1	DON'T KNOW	0	2	2
295	Schizophrenic disorders	2	2	4
296	Affective psychoses	3	7	10
300	Neurotic disorder	2	7	9
303	Alcohol dependence syndrome	1	0	1
309	Adjustment reaction	2	0	2
311	Depressive disorder, not elsewhere classified	22	45	67
314	Hyperkinetic syndrome of childhood	0	1	1
332	Parkinson's disease	1	0	1
626	Disorders of menstruation and other abnormal bleeding from female genital tract	0	1	1
627	Menopausal and postmenopausal disorders	0	1	1
6040	Mental And Behavioral Problems	0	1	1

Note: See COR867 in Appendix R for codes and details regarding cause of death coding.



## Table of Contents

Phone: Health	1
av031re: Now think about the last 12 months, did you receive personal care for a period of one month or more from a family member or friend because of a health condition, illness, or disability?	1
av032are: What condition/illness/disability caused you to need personal care? Added 11/07.	2
av032bre: Collapsed - What condition/illness/disability caused you to need personal care? Added 11/07	6
av033re: Who did you receive the most personal care from?	7
av034re: Is this person still helping you?	8
av035re: Why is this person no longer helping you? Is it because you no longer need care, someone else is helping you, or for some other reason?	9
av036re: During this period of receiving care, did this person live with you?	9
av037re: Because of your limitations did/does this person help you with: bathing, dressing, eating, or going to the bathroom?	9
av038re: Because of your limitations did/does this person help you with: Getting around inside the house or getting outside?	10
av039re: Did/does this person help you with: Shopping, cooking, housework or laundry?	10
av040re: Did/does this person help you with: Managing money, making phone calls, or taking medications?	11
av041re: In how many different weeks during the past 12 months did you receive personal care from this person?	11
av042re: During those weeks, about how many hours per week, on average did this person help you?	12
ax201re: In general, would you say your health is excellent, very good, good, fair, or poor?	12
ax202are: Health Utilities Index Mark 3 Summary Score	13
ax202bma: Health Utilities Index Mark 3 Best Measure	13
ax202bmb: Health Utilities Index Best Measure Number of Logical Imputations	14
ax202bre: Modified Health Utilities Index Mark 3 Summary Score Logical Imputation	15
ax202cre: Modified Health Utilities Index Mark 3 Summary Score Number of Logical Imputations	15
ax203lre: Health Utilities Index Mark 3 Vision Level	16
ax203sre: Health Utilities Index Mark 3 Vision Score	16
ax204lre: Health Utilities Index Mark 3 Hearing Level	17
ax204sre: Health Utilities Index Mark 3 Hearing Score	18
ax205lre: Health Utilities Index Mark 3 Speech Level	19
ax205sre: Health Utilities Index Mark 3 Speech Score	20
ax206lre: Health Utilities Index Mark 3 Ambulation Level	20
ax206sre: Health Index Utilities Mark 3 Ambulation Score	21
ax207lre: Health Utilities Index Mark 3 Dexterity Level	22
ax207sre: Health Utilities Index 3 Dexterity Score	22
ax208lre: Health Utilities Index 3 Emotion Level	23
ax208sre: Health Utilities Index Mark 3 Emotion Score	23
ax209lre: Health Utilities Index Mark 3 Cognition Level	24
ax209sre: Health Utilities Index Mark 3 Cognition Score	25
ax210lre: Health Utilities Index Mark 3 Pain Level	25

ax210sre: Health Utilities Index Mark 3 Pain Score . . . . .	26
ax230re: Including what you have already told me, would you say that you have EVER had any long-term physical or mental conditions, illnesses or disabilities that limited what you were able to do, either on or off the job? . . . . .	26
ax231are: What is the MOST SERIOUS condition that limited what you were able to do, either on or off the job? Added 11/07. . . . .	27
ax231bre: Collapsed - What was the MOST SERIOUS condition that limited what you were able to do, either on or off the job? Added 11/07. . . . .	34
ax232are: What was the SECOND MOST SERIOUS condition that limited what you were able to do, either on or off the job? Added 11/07. . . . .	35
ax232bre: Collapsed - What was the SECOND MOST SERIOUS condition that limited what you were able to do, either on or off the job? Added 11/07. . . . .	40
ax301re: During the past four weeks, have you been able to see well enough to read ordinary newsprint without glasses or contact lenses? . . . . .	41
ax302re: Have you been able to see well enough to read ordinary newsprint WITH glasses or contact lenses? . . . . .	42
ax303re: During the past 4 weeks, have you been able to see at all? . . . . .	42
ax304re: During the past 4 weeks, have you been able to see well enough to recognize a friend on the other side of the street without glasses or contact lenses? . . . . .	43
ax305re: Have you been able to see well enough to recognize a friend on the other side of the street with glasses or contact lenses? . . . . .	43
ax306re: During the past four weeks, without a hearing aid and while in a group conversation with at least three other people, have you been able to hear what is said? . . . . .	44
ax307re: Have you been able to hear what is said in a group conversation with at least three other people WITH a hearing aid? . . . . .	44
ax308re: During the past four weeks, without a hearing aid, in a conversation with one other person in a quiet room, have you been able to hear what is said? . . . . .	45
ax309re: During the past four weeks in a conversation with one other person in a quiet room, have you been able to hear what is said: What about WITH a hearing aid? . . . . .	45
ax310re: During the past four weeks, have people who do not know you understood you completely when you speak? . . . . .	46
ax311re: Have people understood you partially when you speak? . . . . .	46
ax312re: During the past four weeks, have people who know you well understood you completely when you speak? . . . . .	47
ax313re: Have they understood you partially when you speak? . . . . .	47
ax314re: During the past four weeks, have you been able to speak at all? . . . . .	48
ax315re: During the past four weeks, have you been able to bend, lift, jump and run without difficulty and without help or equipment of any kind? . . . . .	48
ax316re: Have you been able to walk around the neighborhood without difficulty and without help or equipment of any kind? . . . . .	49
ax317re: Have you been able to walk around the neighborhood with difficulty but without help or equipment of any kind? . . . . .	49
ax318re: During the past four weeks, have you been able to walk at all? . . . . .	50
ax319re: Have you needed mechanical support, such as braces or a cane or crutches, to be able to walk around the neighborhood? . . . . .	50
ax320re: Have you needed the help of another person to walk? . . . . .	51
ax321re: Have you needed a wheelchair to get around the neighborhood? . . . . .	51

ax322re: Have you needed the help of another person to get around in the wheelchair? . . .	52
ax323re: During the past four weeks, have you had full use of both hands and 10 fingers? . . .	52
ax324re: Have you needed the help of another person because of limitations in the use of your hands or fingers? . . . . .	53
ax325re: Have you needed the help of another person with some tasks, most tasks, or all tasks? . . .	53
ax326re: Have you needed special equipment, for example, special tools to help with dressing or eating, because of limitations in the use of your hands or fingers? . . . . .	54
ax327re: During the past four weeks, have you been able to eat, bathe, dress and use the toilet without difficulty? . . . . .	54
ax328re: Have you needed the help of another person to eat, bathe, dress or use the toilet? . . .	55
ax329re: Have you needed special equipment or tools to eat, bathe, dress or use the toilet? . . .	55
ax330re: During the past four weeks, have you been feeling happy or unhappy? . . . . .	56
ax331re: During the past four weeks, would you describe yourself as having felt happy and interested in life, or somewhat happy? . . . . .	56
ax332re: During the past four weeks, would you describe yourself as having felt somewhat unhappy, very unhappy, or so unhappy that life is not worthwhile? . . . . .	57
ax333re: During the past four weeks, did you ever feel fretful, angry, irritable, anxious or depressed? . . . . .	57
ax334re: How often did you feel this way: rarely, occasionally, often or almost always? . . . . .	58
ax335re: During the past four weeks, did you feel extremely fretful, angry, irritable, anxious or depressed, to the point of needing professional help? . . . . .	58
ax336re: How would you describe your ability to remember things during the past four weeks? Were you able to remember most things, somewhat forgetful, very forgetful, or unable to remember anything at all? . . . . .	59
ax337re: How would you describe your ability to think and solve day to day problems, during the past 4 weeks? Were you able to think clearly and solve problems, had a little difficulty, had a great deal of difficulty, or unable to think or solve problems? . . . . .	59
ax338re: Have you had any trouble with pain or discomfort during the past four weeks? . . . . .	60
ax339re: How many of your activities, during the past four weeks, were limited by pain or discomfort? Would you say none, a few, some, most, or all? . . . . .	60
ax340re: Because of any impairment or health problems, do you need the help of other persons in handling routine needs, such as everyday household chores, doing necessary business, shopping or getting around for other purposes? . . . . .	61
ax341re: Has a doctor told you that you have high blood pressure or hypertension? . . . . .	61
ax342re: Has a doctor ever told you that you have diabetes? . . . . .	62
ax343re: In what year was this first diagnosed? . . . . .	62
ax344re: In order to treat or control your diabetes, are you now taking medications that you swallow? . . . . .	63
ax345re: Are you now using insulin shots or a pump? . . . . .	63
ax346re: Has a doctor ever told you that you have high blood sugar? . . . . .	64
ax347re: In what year was this first diagnosed? . . . . .	64
ax348re: Has a doctor ever told you that you have cancer or a malignant tumor not including minor skin cancers? . . . . .	65
ax349re: In what year was this diagnosed? . . . . .	65
ax350re: In which organ or part of your body did this cancer occur? . . . . .	66
ax351re: Has a doctor ever told you that you had a heart attack, coronary heart disease, angina, congestive heart failure, or other heart problems? . . . . .	68
ax352re: Did you have a heart attack or myocardial infarction? . . . . .	68
ax353re: In what year did you have your most recent heart attack or myocardial infarction? . . . . .	68

ax354re: Have you ever had a special test or treatment of your heart where tubes were inserted into your veins or arteries: cardiac catheterization, coronary angiogram, or angioplasty? . . . . .	69
ax355re: Have you ever had surgery on your heart? . . . . .	69
ax356re: Has a doctor ever told you that you had a stroke? . . . . .	70
ax357re: In what year did you last have a stroke? . . . . .	70
ax358re: Do you still have any remaining health problems because of your stroke, such as muscle weakness or difficulty speaking? . . . . .	71
ax359re: Do you sometimes have pain, stiffness, or swelling in your joints? . . . . .	71
ax360re: Have you ever had, or has a doctor ever told you that you have arthritis or rheumatism? . . . . .	72
ax361re: Have you ever been diagnosed with a mental illness? . . . . .	72
ax362are: What was that specific mental illness diagnosis? Added 11/07. . . . .	73