



Traumatic Brain Injury Model Systems Syllabus

Syllabus Pages

Revised between

01/01/1900 - 05/06/2013



DEFINITION

Data Key to identify unique row

VARIABLES

| <u>Name</u> | <u>Description</u> | <u>Date Added</u> | <u>Date Removed</u> |
|-----------------------|--|-------------------|---------------------|
| Center | Center ID | 01/01/1900 | |
| Question: | Center ID | | |
| | 2 The Virginia Commonwealth TBI Model System | 10/01/2009 | |
| | 3 The Institute for Rehabilitation and Research (TIRR Memorial Hermann) | 10/01/2009 | |
| | 4 Southeastern Michigan Traumatic Brain Injury System (SEMTBIS) | 10/01/2009 | |
| | 5 Northern California TBI Model System | 10/01/2009 | |
| | 6 The Ohio Regional TBI Model System | 10/01/2009 | |
| | 7 Moss TBI Model System | 10/01/2009 | |
| | 8 University of Alabama at Birmingham Traumatic Brain Injury Care System | 10/01/2009 | |
| | 9 Rocky Mountain Regional Brain Injury System | 10/01/2009 | |
| | 10 Georgia Model Brain Injury System (GAMBIS) | 10/01/2009 | |
| | 11 Spaulding/Partners Traumatic Brain Injury Model System at Harvard Medical School | 10/01/2009 | |
| | 12 Mayo Clinic Traumatic Brain Injury Model System | 10/01/2009 | |
| | 13 University of Missouri | 10/01/2009 | 04/01/2010 |
| | 14 TBI Model System of Mississippi | 10/01/2009 | |
| | 15 Northern New Jersey Traumatic Brain Injury System (NNJTBIS) | 10/01/2009 | |
| | 16 Carolinas Traumatic Brain Injury Rehabilitation and Research System | 10/01/2009 | |
| | 17 Oregon Health Sciences University | 10/01/2009 | 04/01/2010 |
| | 18 University of Washington Traumatic Brain Injury Model System | 10/01/2009 | |
| | 19 JFK-Johnson Rehabilitation Institute Traumatic Brain Injury Model System | 10/01/2009 | |
| | 20 University of Pittsburgh Medical Center Traumatic Brain Injury Model System (UPMC-TBI Model System) | 10/01/2009 | |
| | 21 North Texas Traumatic Brain Injury Model System | 10/01/2009 | |
| | 22 New York Traumatic Brain Injury Model System | 10/01/2009 | |
| | 23 Midwest Regional Traumatic Brain Injury Model System | 10/01/2009 | |
| | 28 Rusk Rehabilitation TBIMS at NYU | 10/01/2012 | |
| | 29 Indiana University / Rehabilitation Hospital of Indiana | 10/01/2012 | |
| | 30 South Florida TBI Model System | 10/01/2012 | |
| SubjectId | Subject ID | 01/01/1900 | |
| Question: | Subject ID | | |
| FollowUpPeriod | Follow-Up Period | 01/01/1900 | |
| Question: | Follow-up Period | | |
| EntryDate | Data Entry Date | 01/01/1900 | |
| Question: | Date of Data Entered | | |

CODE

- SUBJECT ID:
Numeric Field (1 to 99999)
- FOLLOWUP PERIOD:
Numeric (1, 2, 5, 10, 20, etc.)
- DATA ENTRY DATE:
Date Field (MM/DD/YYYY)



Form: 2

Last updated: 04/01/2010

DATA KEYS

Variable KEYS

HISTORY

| <u>Date of Change</u> | <u>Description</u> |
|-----------------------|--|
| 04/01/2010 | Removed centers 13 - Missouri, and 17 - Oregon, corresponding with archival of data from non-participating centers |
| 02/01/2009 | Variable added to database |
| 10/01/1997 | Added new codes for OSU and MOSS. |



Form: 2

Last updated: 07/01/2002

VERSION OF FORM BEING ENTERED

Variable VER

DEFINITION

Version number of the data entry form on which data for the present case was recorded. For the version number, refer to the upper right corner of the header of the data entry form (Form II) on which the data are recorded.

VARIABLES

| <u>Name</u> | <u>Description</u> | <u>Date Added</u> | <u>Date Removed</u> |
|-------------|--------------------|-------------------|---------------------|
| Version | Form Version | 01/01/1900 | |
| Question: | Version of Form | | |

CODE

Version numbers of Form IIs that can be entered into the database are listed in the drop-down menu (e.g., 7.0, 7.5...)

NOTE

As of 4/1/02, the TBIMS data entry system has the capacity to present data entry screens that match more than one version of the Form II. Obtain the data entry screens that match the Form II you wish to enter by selecting the version number of your Form II from the drop down menu.

*As of 4/1/04, all versions of Form II from V7.5 on are available as data entry screens. If the version of the Form II that you wish to edit or enter into the database is not listed on the drop-down menu, refer to external link.

EXAMPLE

Data for patient was recorded on Form II version 7.5. Code:

Version : 7.5

HISTORY

| <u>Date of Change</u> | <u>Description</u> |
|-----------------------|-----------------------------|
| 07/01/2002 | Variable added to syllabus |
| 04/01/2002 | Variable added to database. |



DEFINITION

Code the living status of the person with brain injury. If patient has died, code the cause of death.

The first coded cause of death on the death certificate is the primary cause. Thereafter list secondary cause and/or external cause of death, if applicable. For more information, see: External Links

VARIABLES

| Name | Description | Date Added | Date Removed |
|---------------------|--|-------------------|--------------|
| DeathCause1F | Cause of Death ICD-9 Code: Primary | 01/01/1900 | |
| Question: | Primary Cause of Death ICD-9 Code | | |
| 77777 | Expired: Cause unknown | 01/01/1900 | |
| 88888 | Not Applicable (Person alive or no other internal cause of death indicated, or death due to external causes) | 01/01/1900 | |
| 99999 | Unknown | 01/01/1900 | |
| DeathCause2F | Cause of Death ICD-9 Code: Secondary | 01/01/1900 | |
| Question: | Secondary Cause of Death ICD-9 Code | | |
| 77777 | Expired: Cause unknown | 01/01/1900 | |
| 88888 | Not Applicable (Person alive or no other internal cause of death indicated, or death due to external causes) | 01/01/1900 | |
| 99999 | Unknown | 01/01/1900 | |
| DeathECodeF | Cause of Death: E-Code | 01/01/1900 | |
| Question: | Cause of Death E-Code | | |
| 77777 | Expired: Cause unknown | 01/01/1900 | |
| 88888 | Not Applicable (Person alive or death not due to external causes) | 01/01/1900 | |
| 99999 | Unknown | 01/01/1900 | |
| DeathF | Date of Death | 01/01/1900 | |
| Question: | Date of Death | | |
| 07/07/7777 | Expired: Date unknown | 01/01/1900 | |
| 08/08/8888 | Not Applicable: Person Alive | 01/01/1900 | |
| 09/09/9999 | Unknown | 01/01/1900 | |

CODE

Date of Death : MM/DD/YYYY

ICD-9 Codes:

For a list of ICD-9 codes, refer to an ICD-9 code manual at your facility.

See also, External Links - Online ICD-9 Coding Manual.

E-Codes:

For an abbreviated list of E-codes, see External Links - ICD-9-CM E-Code Categories.

See also, External Links - List of E-Codes.

NOTE

Refer to SOP 206: 'Procedure for Obtaining and Coding Cause of Death in the TBIMS National Database Guidelines for Coding Primary Cause of Death'.

Every attempt should be made to obtain the death certificate. The death certificate should be used as the primary source to code cause of death. If the death certificate cannot be obtained (e.g., the state health department of residence does not have a certificate on file for that person), the next best source should be used (e.g., listing of cause of death in hospital record where person died, family member report, etc.)

If expired, only the variables indicated on page 3 of SOP 105b (Guidelines for Collection of Follow-up Data) are to be completed.

If follow-up was started but not completed prior to the participant being expired, complete the Form II appropriately for an expired participant.

If the causes of death are already coded on the death certificate, these codes are not to be used because they may not be accurate and/or they



may be ICD-10 codes.

EXAMPLE

Participant expired. Code:

Primary Cause Of Death ICD-9 Code : 77777

Secondary Cause Of Death ICD-9 Code : 77777

Cause Of Death E-Code : 77777

Follow steps outlined in SOP 206 - Procedures for Obtaining And Coding Cause of Death (external link provided below). The NDSC will code the cause(s) of death upon receipt of the Death Certificate.

HISTORY

| <u>Date of Change</u> | <u>Description</u> |
|-----------------------|--|
| 04/01/2013 | SOP 206: Procedures for Obtaining And Coding Cause of Death' implemented. Syllabus page updated to reflect these changes. |
| 10/01/2009 | Added NOTE : If expired, complete only the variables listed on p3 of SOP 105b. |
| 04/01/2009 | Changed NOTES: Emphasis placed upon obtaining death certificates. |
| 10/01/2008 | Changed special codes for primary and secondary cause of death to correspond with special codes for cause of death E-Code. Expired, Cause Unknown = 77777, Not Applicable = 88888, Unknown = 99999. Codes changed for standardization across ICD9 variables. |
| 04/01/2006 | Changed "Unk if expired" code for E-code from 999.9 to 99999. |
| 04/01/2006 | Changed "NA" code for E-code from 888.8 to 88888. |
| 04/01/2006 | Changed "Expired cause unk" code for E-code from 777.7 to 77777. |
| 01/01/1995 | Dropped 3rd ICD-9 code and 2nd and 3rd E-codes. |

SOURCE

UAB

ICD-9-CM 2001: International Classification of Diseases 9th Revision Clinical Modification, AMA Press. Volume 1, 2000, 251-279. ISBN: 1579471501.



DEFINITION

IntStatus: Status of interview currently being conducted
Followup: Date of Follow-up Evaluation

VARIABLES

Table with columns: Name, Description, Date Added, Date Removed. Rows include IntStatus (Interview Status) and Followup (Follow-Up Evaluation Date) with various codes and descriptions.

CODE

Date of Follow-up Evaluation : MM/DD/YYYY

NOTE

For date of follow-up evaluation, enter date when first data are collected (if data collection is done with more than one contact) with patient or significant other. If no follow-up data are collected from patient or significant other, code the reason (05/05/5555, 06/06/6666, etc).

EXAMPLE

Follow-up evaluation was conducted on May 13, 1989. Code:

IntStatus: 1
Followup: 05/13/1989

HISTORY

Table with columns: Date of Change, Description. Lists historical updates to the variable, such as adding codes and changing labels.



Form: 2

Last updated: 01/01/2006

DATE OF FOLLOW-UP

Variable FU

QUESTIONS

QUESTION: I have a participant who is in court ordered rehab. When entering into the database, do I select 'incarcerated' for interview status?

ANSWER: Yes. Court ordered rehab is considered as a form of incarceration for the purposes of the TBIMS.

**DEFINITION**

The manner in which interview data were collected from the person with brain injury and/or significant other.

VARIABLES

| <u>Name</u> | <u>Description</u> | <u>Date Added</u> | <u>Date Removed</u> |
|-------------------|---|-------------------|---------------------|
| IntMthdInd | Method of Interview Data Collection: Person with TBI | 01/01/1900 | |
| Question: | Method of Data Collection - Person With TBI | | |
| | 1 In-person Interview | 01/01/1900 | |
| | 2 Telephone Interview | 01/01/1900 | |
| | 3 Questionnaire Mailing | 01/01/1900 | |
| | 4 Data Obtained From Secondary Source | 01/01/1900 | |
| | 6 Variable Did Not Exist | 01/01/1900 | |
| | 7 Not Applicable: Funding not available | 01/01/1900 | |
| | 8 Not Applicable: No Data Provided by Person with TBI | 01/01/1900 | |
| NoDataInd | Reason Data Not Provided: Person with TBI | 01/01/1900 | |
| Question: | Reason Person with TBI Not Providing Data | | |
| | 3 Physically or Cognitively Unable | 01/01/1900 | |
| | 4 Not Available (Not at home, in the hospital or jail, is working or in school and not available for interview) | 01/01/1900 | |
| | 5 Stated Refusal | 01/01/1900 | |
| | 6 No Response to Contact (Center staff know the whereabouts of the person with brain injury but he/she has not responded to contact) | 01/01/1900 | |
| | 7 Lost to Follow-up (Unknown whereabouts of person with brain injury) | 01/01/1900 | |
| | 8 Language Barrier (Person with brain injury does not speak English and no interpreter was available) | 01/01/1900 | |
| | 9 Expired | 01/01/1900 | |
| | 66 Variable Did Not Exist | 01/01/1900 | |
| | 77 Not Applicable: Funding not available (No funding) | 01/01/1900 | |
| | 88 Not Applicable: Data was provided (Interview data was provided by person with brain injury) | 01/01/1900 | |
| | 99 Unknown (Reason why no interview data was provided by person with brain injury, or unknown reason why no follow-up was attempted.) | 01/01/1900 | |
| IntMthdSO | Method of Interview Data Collection: Family Member/Significant Other | 01/01/1900 | |
| Question: | Method of Interview Data Collection - Family Member/Significant Other | | |
| | 1 In-person Interview | 01/01/1900 | |
| | 2 Telephone Interview | 01/01/1900 | |
| | 3 Questionnaire Mailing | 01/01/1900 | |
| | 4 Data Obtained From Secondary Source | 01/01/1900 | |
| | 6 Variable Did Not Exist | 01/01/1900 | |
| | 7 Not Applicable: Funding not available | 01/01/1900 | |
| | 8 Not Applicable: No Data Provided by Significant Other | 01/01/1900 | |
| SO | Identity of Significant Other | 01/01/1900 | |
| Question: | Identity of Significant Other | | |
| | 1 Spouse | 01/01/1900 | |
| | 2 Parent(s) | 01/01/1900 | |
| | 3 Sibling | 01/01/1900 | |
| | 4 Adult Child | 01/01/1900 | |
| | 5 Boyfriend, Girlfriend, Fiancee | 01/01/1900 | |
| | 7 Other Relative | 01/01/1900 | |
| | 8 Friend | 01/01/1900 | |
| | 9 Professional Caregiver | 01/01/1900 | |
| | 77 Other | 01/01/1900 | |
| | 88 Not Applicable: No family or significant other data | 01/01/1900 | |

NOTE



Interview data includes all Form II data collected from the person with brain injury.

If multiple methods are used to collect data, record the method used the most with this participant.

Code 7 is not shown on Form II because it is a special purpose code and should not be used in normal data collection/submission.

Use code "4" for both [IntMthdInd] and [IntMthdSo] if most of the data were obtained from a secondary source. These data must have originally been collected within window and must be high quality.

Every effort should be made to collect data from the participant or an appropriately informed significant other. Data from other sources (indicated by code "4") should be entered only if: (1) it has not been possible to obtain that information from the person or significant other during the follow-up window, (2) those data were originally collected during the follow-up window, and (3) the data meet TBIMS standards for data collection procedures and data quality standards.

EXAMPLE

Data were collected via telephone interview. Code:

IntMthdInd : 2

HISTORY

| <u>Date of Change</u> | <u>Description</u> |
|-----------------------|---|
| 04/01/2006 | In NOTE, added "All possible effort is to be made to collect data from the participant or an SO. Data from other sources (as indicated by code "4") should be entered only if: (1)it has not been possible to obtain the data from the person or SO during the follow-up window, (2) those data were originally collected during the follow-up window, and (3) the data meet TBIMS standards for data collection procedures and data quality standards". |
| 01/01/2006 | Added CODE : "4 NA-data obtained out of window from secondary source". |
| 01/01/2006 | Added CODE : "6=Variable did not exist at time data were collected" |
| 01/01/2006 | Added instruction in NOTE about using code 4. |
| 04/01/2004 | Added NOTE : about code 7 not being in Form II. |
| 01/01/2004 | Added CODE : 7. |
| 10/01/2003 | Corrected example (added code). |
| 10/01/2003 | In note, removed reference to (deleted) neuropsych battery and physical exam. |
| 08/20/2001 | Note added about how to code if multiple methods are used to collect data. |
| 01/01/1996 | Clarified that this variable refers to interview data collection only. |
| 08/19/1994 | Added CODE : 8 to be consistent with data collection form. |

QUESTIONS

QUESTION: On the syllabus I have and on the list of Form II Syllabus changes, it is noted "Added code 7" but that code isn't on the new Form II. Should it be?

ANSWER: This code is used only for very specific purposes that data collectors will not run into. So, the code should not be on the Form II.

QUESTION: On the Form II, variable INTMTHIND and INTMTHDSO now have a code "4". Do I understand this to actually be a form of chart review? How will this code be treated in calculation of follow-up rates in the Quarterly Report?

ANSWER: The "4"code was added in response to a center's need to be able to enter a code for INTMTHIND and INTMTHDSO for a few respondents who had withdrawn authorization during the follow-up window but re-authorized TBIMS data collection after the window had closed, and for whom, it turned out, data usable in their Form IIs were obtainable later from sources that had happened to have collected that information for clinical purposes, during the follow-up window. The key elements in this situation are: (a) data could not be obtained by TBIMS data collectors (or their proxies) from any source during the follow-up window, and (b) data that were appropriate for entering into the Form II were collected elsewhere during the follow-up window and became available to TBIMS data collectors after the follow-up window had closed. This is a rare situation. The availability of this new code should not affect your data collection practices or your use of the 1, 2, and 3 codes under any circumstances other than when the above two key elements are present.



DEFINITION

Where the person with brain injury is living at the time of follow-up evaluation, according to the best source of information (person with brain injury unless unavailable or unreliable)

VARIABLES

| <u>Name</u> | <u>Description</u> | <u>Date Added</u> | <u>Date Removed</u> |
|------------------|---|-------------------|---------------------|
| ResF | Current Residence | 01/01/1900 | |
| Question: | Where do you live now? | | |
| 1 | Private Residence (Includes house, apartment, mobile home, foster home, condominium, dormitory (school, church, college), military barracks, boarding school, boarding home, rooming house, bunk-house, boys ranch, fraternity/sorority house, commune, migrant farmworkers camp) | 01/01/1900 | |
| 2 | Nursing Home (Includes medi-center, residential, institutions licensed as hospitals but providing essentially long-term, custodial, chronic disease care, etc.) | 01/01/1900 | |
| 3 | Adult Home (Includes adult foster care, indep. living center, transitional living facility, assisted living, supported living, group home) | 01/01/1900 | |
| 4 | Correctional Institution (Includes prison, jail, penitentiary, correctional center, labor camp, halfway house, etc.) | 01/01/1900 | |
| 5 | Hotel/Motel (Includes YWCA, YMCA, guest ranch, inn) | 01/01/1900 | |
| 6 | Homeless (Includes a shelter for the homeless) | 01/01/1900 | |
| 7 | Hospital: Acute care | 01/01/1900 | |
| 8 | Hospital: Rehabilitation | 01/01/1900 | |
| 9 | Hospital: Other (Includes mental hospital, inpatient drug treatment) | 01/01/1900 | |
| 10 | Subacute Care (Includes subacute hospital bed, skilled nursing facility) | 01/01/1900 | |
| 77 | Other | 01/01/1900 | |
| 99 | Unknown | 01/01/1900 | |

NOTE

If there is uncertainty regarding residence, treat it as a self-report variable. If residence is not clear, a reliable respondent (when possible the person with TBI) should be asked, eg., "Where are you [the person with TBI] currently living?". If the response is ambiguous (as may happen, eg., if the person is transient) use probes in order to adequately understand the respondent's belief regarding residence, then code that. Do not probe to obtain additional objective information about the living situation and then (the data collector) use that information in determining the correct code. When residence is at all ambiguous, treat it as a self-report variable.

EXAMPLE

Patient lived at home at the time of evaluation. Code:

ResF : 01

HISTORY

| <u>Date of Change</u> | <u>Description</u> |
|-----------------------|---|
| 01/01/2005 | Added NOTE : that for cases coded "04", (Follow-up evaluation date) must be coded "07/07/7777" so the case will not be included in the Missing Data Report. |
| 01/01/2005 | Added NOTE : how to determine residence if not clear. |
| 10/01/2004 | Deleted "shelter" as a category of "01=Private". Added "shelter for the homeless" to code "06=Homeless". |
| 08/20/2001 | Added "Involuntary inpatient drug treatment program" to "Hospital-Other" category. |
| 07/01/2001 | Zip Code question becomes a separate variable (ZIP). |
| 01/01/2001 | Zip Code collected. |
| 09/13/1994 | Added "adult foster care" to code 3. |



DEFINITION

Geographic identifiers of address and years at address, including the following variables:

- 1) Authorization received for collection of street address
- 2) Street address 1
- 3) Street address 2
- 4) City
- 5) State
- 6) Length of time at current address (number of days/months/years)

The National Data and Statistical Center will obtain Geo-ID codes on a quarterly basis utilizing addresses provided.

VARIABLES

| Name | Description | Date Added | Date Removed |
|-----------------------|---|-------------------|--------------|
| AddressConsent | Authorization for Address Collection Received | 04/01/2010 | |
| Question: | Authorization received for collection of street address: | | |
| | 1 No | 04/01/2010 | |
| | 2 Yes | 04/01/2010 | |
| | 6 Variable Did Not Exist | 04/01/2010 | |
| Street1 | Street Address 1 | 04/01/2010 | |
| Question: | Street Address 1: | | |
| Street2 | Street Address 2 | 04/01/2010 | |
| Question: | Street Address 2: | | |
| City | City | 04/01/2010 | |
| Question: | City: | | |
| State | State | 04/01/2010 | |
| Question: | State: | | |
| | AK Alaska | 04/01/2010 | |
| | AL Alabama | 04/01/2010 | |
| | AR Arkansas | 04/01/2010 | |
| | AZ Arizona | 04/01/2010 | |
| | CA California | 04/01/2010 | |
| | CO Colorado | 04/01/2010 | |
| | CT Connecticut | 04/01/2010 | |
| | DC District of Columbia | 04/01/2010 | |
| | DE Delaware | 04/01/2010 | |
| | FL Florida | 04/01/2010 | |
| | GA Georgia | 04/01/2010 | |
| | HI Hawaii | 04/01/2010 | |
| | IA Iowa | 04/01/2010 | |
| | ID Idaho | 04/01/2010 | |
| | IL Illinois | 04/01/2010 | |
| | IN Indiana | 04/01/2010 | |
| | KS Kansas | 04/01/2010 | |
| | KY Kentucky | 04/01/2010 | |
| | LA Louisiana | 04/01/2010 | |
| | MA Massachusetts | 04/01/2010 | |
| | MD Maryland | 04/01/2010 | |
| | ME Maine | 04/01/2010 | |
| | MI Michigan | 04/01/2010 | |
| | MN Minnesota | 04/01/2010 | |
| | MO Missouri | 04/01/2010 | |



Form: 2

GEO-ID

Last updated: 04/01/2010

Variable ADDRESS

| | | |
|----|---|------------|
| MS | Mississippi | 04/01/2010 |
| MT | Montana | 04/01/2010 |
| NC | North Carolina | 04/01/2010 |
| ND | North Dakota | 04/01/2010 |
| NE | Nebraska | 04/01/2010 |
| NH | New Hampshire | 04/01/2010 |
| NJ | New Jersey | 04/01/2010 |
| NM | New Mexico | 04/01/2010 |
| NV | Nevada | 04/01/2010 |
| NY | New York | 04/01/2010 |
| OH | Ohio | 04/01/2010 |
| OK | Oklahoma | 04/01/2010 |
| OR | Oregon | 04/01/2010 |
| PA | Pennsylvania | 04/01/2010 |
| RI | Rhode Island | 04/01/2010 |
| SC | South Carolina | 04/01/2010 |
| SD | South Dakota | 04/01/2010 |
| TN | Tennessee | 04/01/2010 |
| TX | Texas | 04/01/2010 |
| UT | Utah | 04/01/2010 |
| VA | Virginia | 04/01/2010 |
| VT | Vermont | 04/01/2010 |
| WA | Washington | 04/01/2010 |
| WI | Wisconsin | 04/01/2010 |
| WV | West Virginia | 04/01/2010 |
| WY | Wyoming | 04/01/2010 |
| 66 | Variable Did Not Exist | 04/01/2010 |
| 88 | Not Applicable: Authorization not given | 04/01/2010 |
| 99 | Unknown | 04/01/2010 |

| ZipF | Zip Code | 01/01/2001 |
|------|----------|------------|
|------|----------|------------|

| | | |
|-----------|---|------------|
| Question: | Zip Code: | |
| 00000 | Variable Did Not Exist (Follow-up evaluation before 7/1/01) | 01/01/1900 |
| 88888 | Not Applicable (Person lives outside of the US) | 01/01/1900 |
| 99999 | Unknown | 01/01/1900 |

| AddressLen | Number of Days/Months/Years | 04/01/2010 |
|------------|-----------------------------|------------|
|------------|-----------------------------|------------|

| | | |
|-----------|---|------------|
| Question: | Enter number of days/months/years. | |
| 666 | Variable Did Not Exist | 04/01/2010 |
| 888 | Not Applicable: Authorization not given | 04/01/2010 |
| 999 | Unknown | 04/01/2010 |

| AddressInt | Interval | 04/01/2010 |
|------------|----------|------------|
|------------|----------|------------|

| | | |
|-----------|---|------------|
| Question: | Interval: | |
| 1 | Days | 04/01/2010 |
| 2 | Months | 04/01/2010 |
| 3 | Years | 04/01/2010 |
| 6 | Variable Did Not Exist | 04/01/2010 |
| 8 | Not Applicable: Authorization not given | 04/01/2010 |
| 9 | Unknown | 04/01/2010 |

CODE

AddressConsent

Leave address fields blank if not applicable or unknown.

STREET ADDRESS 1

Enter street address [30 characters]



STREET ADDRESS 2

Enter continuation of street address if necessary [30 characters]

CITY

Enter city [30 characters]

STATE

Enter standard abbreviation [2 characters]

NUMBER OF DAYS/MONTHS/YEARS

Enter number [3 digits]

NOTE

Enrollees should be given the option of opting out of this component of data collection.

Convert years to months if fractions are included in the years provided by the participant (i.e. 3 1/2 years = 3.5 * 12 = 42 months).

Convert months to days if fractions are included in the months provided by the participant (i.e. 3 1/2 months = 3.5 * 30 = 105 days).

Calculated variable converting various intervals to a standardized format is available.

EXAMPLE

Participant consented to provide their address in accordance with local IRB protocols. They have been living at 1600 Pennsylvania Ave NW, Washington DC for the last 3 and 1/2 years. Code:

AddressConsent : 2
Street1 : 1600 Pennsylvania Ave NW
Street2 : [leave blank]
City : Washington
State : DC
AddressLen : 42
AddressInt : 2

HISTORY

| <u>Date of Change</u> | <u>Description</u> |
|-----------------------|-------------------------------|
| 04/01/2010 | Variable(s) added to database |

QUESTIONS

QUESTION: If a participant is homeless at follow-up, should the address of the homeless shelter the participant uses be entered for the Geo-ID address fields?

ANSWER: Yes. There is a note in the syllabus for Zip Code that says "If the person has no residence, record the zip code of the area in which he/she is most likely to be." If we would record the zip code of the homeless shelter in this manner, it would also be appropriate to record the address.

QUESTION: Following injury, participant served 5 years in prison for drug charges related to TBI. Upon release, returned to the same house lived in since 1989.

ANSWER: We are primarily interested in how the community is impacting outcomes. Since the person was in prison, the community and the person did not really interact. Given that, the 4 years at the current home since release from prison would be coded.



Form: 2

PRIMARY PERSON LIVING WITH

Last updated:

Variable LIVWHO

DEFINITION

The primary person with whom the person with TBI is living with at time of evaluation, according to the best source of information (person with brain injury unless unavailable or unreliable).

VARIABLES

| <u>Name</u> | <u>Description</u> | <u>Date Added</u> | <u>Date Removed</u> |
|------------------|--|-------------------|---------------------|
| LivWhoF | Person Living with Currently: Primary | 01/01/1900 | |
| Question: | Who are you currently living with? | | |
| | 1 Alone | 01/01/1900 | |
| | 2 Spouse (Includes common-law partners of 7 or more yrs) | 01/01/1900 | |
| | 3 Parent(s) | 01/01/1900 | |
| | 4 Sibling(s) | 01/01/1900 | |
| | 5 Child/Children (Less than 21 years of age) | 01/01/1900 | |
| | 6 Other Relative(s) or Adult Child(ren) (Greater than 21 years of age) | 01/01/1900 | |
| | 7 Roommate(s) or Friend(s) | 01/01/1900 | |
| | 8 Significant Other (Partners, not married) | 01/01/1900 | |
| | 9 Other Patients (In hospital or nursing home) | 01/01/1900 | |
| | 10 Other Residents (Group living situation) | 01/01/1900 | |
| | 11 Personal Care Attendant | 01/01/1900 | |
| | 77 Other (Includes correctional facility inmates) | 01/01/1900 | |
| | 99 Unknown | 01/01/1900 | |

NOTE

If the patient is living with more than one person, list the person most involved in the patient's life and care.

EXAMPLE

Patient was living with a roommate at time of evaluation. Code:

LivWhoF : 07

HISTORY

| <u>Date of Change</u> | <u>Description</u> |
|-----------------------|--------------------|
|-----------------------|--------------------|

SOURCE

SCVMC



DEFINITION

Marital status at evaluation and change of marital status since last successful follow-up, according to the best source of information (person with brain injury unless unavailable or unreliable).

VARIABLES

| Name | Description | Date Added | Date Removed |
|------------------|--|-------------------|--------------|
| MarF | Marital Status | 01/01/1900 | |
| Question: | What is your current marital status? | | |
| | 1 Single (A person who has never married) | 01/01/1900 | |
| | 2 Married (A person who is married, whether legally or by common law) | 01/01/1900 | |
| | 3 Divorced (A person who is legally divorced) | 01/01/1900 | |
| | 4 Separated (Includes both legal separation and living apart from a married partner) | 01/01/1900 | |
| | 5 Widowed | 01/01/1900 | |
| | 7 Other | 01/01/1900 | |
| | 9 Unknown | 01/01/1900 | |
| MarChange | Change in Marital Status | 04/01/2010 | |
| Question: | Has your marital status changed? | | |
| | 0 No Change | 04/01/2010 | |
| | 1 Separation | 04/01/2011 | |
| | 2 Divorce | 04/01/2010 | |
| | 3 Marriage | 04/01/2010 | |
| | 4 Widowed | 04/01/2010 | |
| | 5 Divorce and Marriage (In either order) | 04/01/2010 | |
| | 6 Widowed and Marriage (In either order) | 04/01/2010 | |
| | 7 Divorce, Marriage and Widowed (In any order) | 04/01/2010 | |
| | 8 Other | 04/01/2010 | |
| | 9 Unknown | 04/01/2010 | |
| | 66 Variable Did Not Exist | 04/01/2010 | |

EXAMPLE

Patient was separated from spouse at follow-up with no overall change in marital status since the last follow-up evaluation. Code:

MarF : 4

MarChange : 0

HISTORY

| Date of Change | Description |
|----------------|---|
| 04/01/2010 | Dropped long-term union/partnership question |
| 10/01/2008 | Changed order of long-term union or partnership and marital status items. |
| 10/01/2007 | Added Long-Term Union/Partnership question |
| 04/01/2007 | Changed the marital description to - a person who is married, whether legally or by common law definition |
| 07/01/2004 | Removed "annual" from references to follow-up evaluation. |
| 09/13/1994 | Dropped code 6 = cohabitation. |
| 08/19/1994 | Removed note regarding collecting data from subject and SO. |
| 08/19/1994 | Corrected descriptions to be consistent with Form 1. |

SOURCE

UAB



DEFINITION

Self-reported Ethnicity for two categories: "Hispanic, Latino, or Spanish", and "Not Hispanic, Latino, or Spanish". To code this variable, participants are asked "Are you of Hispanic, Latino, or Spanish origin?"

Self-Reported racial identification for each of the following five categories: "White", "Black, African American, Negro", "Asian", "American Indian or Alaskan Native", and "Native Hawaiian or other Pacific Islander". To code these variables, participants are asked "What racial group or groups do you most identify with?". To account for mixed race, all race categories that a participant indicates should be coded.

VARIABLES

| Name | Description | Date Added | Date Removed |
|------------------|--|-------------------|--------------|
| Ethnicity | Hispanic/Latino/Spanish | 10/01/2012 | |
| Question: | Are you of Hispanic, Latino, or Spanish origin? | | |
| 1 | No | 10/01/2012 | |
| 2 | Yes | 10/01/2012 | |
| 7 | Refused | 10/01/2012 | |
| 8 | Variable Did Not Exist | 10/01/2012 | |
| 9 | Unknown | 10/01/2012 | |
| RaceWht | White | 10/01/2012 | |
| Question: | White | | |
| 1 | No | 10/01/2012 | |
| 2 | Yes | 10/01/2012 | |
| 7 | Refused | 10/01/2012 | |
| 8 | Variable Did Not Exist | 10/01/2012 | |
| 9 | Unknown | 10/01/2012 | |
| RaceBlk | Black, African American, Negro | 10/01/2012 | |
| Question: | Black, African American, Negro | | |
| 1 | No | 10/01/2012 | |
| 2 | Yes | 10/01/2012 | |
| 7 | Refused | 10/01/2012 | |
| 8 | Variable Did Not Exist | 10/01/2012 | |
| 9 | Unknown | 10/01/2012 | |
| RaceAsn | Asian | 10/01/2012 | |
| Question: | Asian | | |
| 1 | No | 10/01/2012 | |
| 2 | Yes | 10/01/2012 | |
| 7 | Refused | 10/01/2012 | |
| 8 | Variable Did Not Exist | 10/01/2012 | |
| 9 | Unknown | 10/01/2012 | |
| RaceInd | American Indian or Alaskan Native | 10/01/2012 | |
| Question: | American Indian, or Alaskan Native | | |
| 1 | No | 10/01/2012 | |
| 2 | Yes | 10/01/2012 | |
| 7 | Refused | 10/01/2012 | |
| 8 | Variable Did Not Exist | 10/01/2012 | |
| 9 | Unknown | 10/01/2012 | |
| RacePI | Native Hawaiian or other Pacific Islander | 10/01/2012 | |
| Question: | Native Hawaiian or other Pacific Islander | | |
| 1 | No | 10/01/2012 | |
| 2 | Yes | 10/01/2012 | |
| 7 | Refused | 10/01/2012 | |
| 8 | Variable Did Not Exist | 10/01/2012 | |
| 9 | Unknown | 10/01/2012 | |



Form: 2

ETHNICITY AND RACE

Last updated: 01/01/2013

Variable RACE

NOTE

It is acceptable to collect RACE variables from an SO if individual cannot answer for themselves.

HISTORY

| <u>Date of Change</u> | <u>Description</u> |
|-----------------------|---|
| 01/01/2013 | Added NOTE: It is acceptable to collect RACE variables from an SO if individual cannot answer for themselves. |

SOURCE

Office of Management and Budget's "Revisions to the Standards for the Classification of Federal Data on Race and Ethnicity." Federal Register, October 30, 1997. www.whitehouse.gov/omb/fedreg_1997standards

United States Census 2010. www.prb.org/Articles/2009/questionnaire.aspx



DEFINITION

Primary Language spoken in the participant's home; To code this variable, participants will be asked "What is the primary language spoken in your home?" Languages other than English or Spanish will be recorded in a secondary text field.

Participant's country of birth; To code this variable, participants will be asked "What is your country of birth?" Countries other than the United States will be recorded in a secondary text field.

Years in US; The number of years that a participant has lived in the United States (if they were not born in the US).

To code this variable, participants who report a country of birth other than the United States will be asked "How many years have you been in the United States?"

VARIABLES

| Name | Description | Date Added | Date Removed |
|-------------------------|--|-------------------|--------------|
| LngSpkHmF | Language Spoken at Home: Primary | 10/01/2012 | |
| Question: | What is the primary language spoken in your home? | | |
| | 1 English | 10/01/2012 | |
| | 2 Spanish | 10/01/2012 | |
| | 3 Other Language | 10/01/2012 | |
| | 7 Refused | 10/01/2012 | |
| | 8 Variable Did Not Exist | 10/01/2012 | |
| | 9 Unknown | 10/01/2012 | |
| LngSpkHmOthF | Language Spoken at Home: Other | 10/01/2012 | |
| Question: | Language spoken: (If not English or Spanish) | | |
| CountryBirthF | Country of birth | 10/01/2012 | |
| Question: | What is your country of birth? | | |
| | 1 United States | 10/01/2012 | |
| | 2 Other Than the United States | 10/01/2012 | |
| | 7 Refused | 10/01/2012 | |
| | 8 Variable Did Not Exist | 10/01/2012 | |
| | 9 Unknown | 10/01/2012 | |
| CountryBirthOthF | Country of birth: Other | 10/01/2012 | |
| Question: | Country of birth: (If not born in the US) | | |
| YearsInUSF | Years Spent in the United States | 10/01/2012 | |
| Question: | How many years have you been in the United States? | | |
| | 666 Variable did not exist | 10/01/2012 | |
| | 777 Refused | 10/01/2012 | |
| | 888 Not Applicable: Born in US | 10/01/2012 | |
| | 999 Unknown | 10/01/2012 | |

NOTE

For participants enrolled prior to addition of this variable, ask the question at the time of the next Form II follow-up.

If 2 or more languages are spoken in the home, try to get the participant to choose which language they consider to be the primary language.

Country of Birth For participants enrolled prior to addition of this variable, ask the question at the time of the next Form II follow-up.

Years in US; This question should only be asked of participants' whose country of birth is other than the United States. Therefore, it should be asked after the question on country of birth.

Begin by asking the number of years participants have been in the United States. If less than 1 year, then ask number of months. Code 6 months or greater as 1 year. Code less than 6 months as 0 years.



Form: 2

CULTURAL

Last updated: 10/01/2012

Variable CULTRL

If participants have lived in the United States intermittently, with periods separated by time spent in another country, record the total number of years spent in the United States.

EXAMPLE

Patient was born in Canada and speak primarily English and some French, and have been in the United States for 10 years. Code:

LngSpkHm : 1

LngSpkHmOth : French

CountryBirth : 2

CountryBirthOth : Canada

YearsInUS : 10

HISTORY

| <u>Date of Change</u> | <u>Description</u> |
|-----------------------|--------------------|
| 10/01/2012 | Added to Database |



Form: 2

YEARS OF EDUCATION

Last updated:

Variable EDU

DEFINITION

Number of years of education successfully completed at the time of follow-up interview.

VARIABLES

| <u>Name</u> | <u>Description</u> | <u>Date Added</u> | <u>Date Removed</u> |
|------------------|---|-------------------|---------------------|
| EduYearsF | Years of Education | 01/01/2001 | |
| Question: | How many years of education have you completed? (At time of interview) | | |
| 1 | 1 Year or Less | 01/01/1900 | |
| 2 | 2 Years | 01/01/1900 | |
| 3 | 3 Years | 01/01/1900 | |
| 4 | 4 Years | 01/01/1900 | |
| 5 | 5 Years | 01/01/1900 | |
| 6 | 6 Years | 01/01/1900 | |
| 7 | 7 Years | 01/01/1900 | |
| 8 | 8 Years | 01/01/1900 | |
| 9 | 9 Years | 01/01/1900 | |
| 10 | 10 Years | 01/01/1900 | |
| 11 | 11 or 12 years: No diploma | 01/01/1900 | |
| 12 | HS Diploma | 01/01/1900 | |
| 13 | Work Toward Associate's | 01/01/1900 | |
| 14 | Associate's Degree | 01/01/1900 | |
| 15 | Work Toward Bachelor's | 01/01/1900 | |
| 16 | Bachelor's Degree | 01/01/1900 | |
| 17 | Work Toward Master's | 01/01/1900 | |
| 18 | Master's Degree | 01/01/1900 | |
| 19 | Work Toward Doctoral Level | 01/01/1900 | |
| 20 | Doctoral Level Degree | 01/01/1900 | |
| 66 | Variable Did Not Exist | 01/01/1900 | |
| 77 | Other | 01/01/1900 | |
| 99 | Unknown | 01/01/1900 | |

NOTE

The number of years of education coded may not equal the actual number of years spent in school. For example, a person who is held back two years in elementary school and then drops out of school in the 10th grade (for a total of 11 full years) would be coded as having completed 9 years; a person may take 6 years to complete a BA (for a total of 18 years), but, as indicated, only 16 years are coded.

GED, trade school, and other types of schooling not listed, are not counted toward years of education.

If person takes a few courses in a college setting with no intention of earning a degree, code "13. Work Toward Associate's Degree (No diploma)."

Code years of foreign education completed the same as years of US education. The TBIMS has not yet found a satisfactory method for determining equivalence, and leaves it up to the data collector to confirm/convert levels of education.

EXAMPLE

At the time of interview, person with disability had completed high school but no work toward an advanced degree. Code:

EduYearsF : 12

HISTORY

| <u>Date of Change</u> | <u>Description</u> |
|-----------------------|--------------------|
|-----------------------|--------------------|

SOURCE



Form: 2

YEARS OF EDUCATION

Last updated:

Variable EDU

Heaton RK, Miller SW, Taylor MJ, Grant I. Revised Comprehensive Norms for an Expanded Halstead-Reitan Battery: Demographically Adjusted Neuropsychological Norms for African American and Caucasian Adults. Lutz, FL: Psychological Assessment Resources, Inc., 2004, 17-18.

QUESTIONS

QUESTION: During a year 1 follow-up, a participant reported a level of education that conflicts with the information reported by a family member 1 year ago. The family member reported Level of Education as 11th, participant reported not having completed the 10th. Should I correct the Form 1 data?

ANSWER: Yes, use the patient report at year 1, and re-code the initial education level on Form I. Make sure you update the source docs as well (Pre-Injury History Questionnaire & Form I).



DEFINITION

GED status at time of follow-up.

VARIABLES

| <u>Name</u> | <u>Description</u> | <u>Date Added</u> | <u>Date Removed</u> |
|------------------|--|-------------------|---------------------|
| GEDF | GED | 08/20/2001 | |
| Question: | Did you earn a GED? | | |
| | 0 Variable Did Not Exist | 01/01/1900 | |
| | 1 No | 01/01/1900 | |
| | 2 Yes | 01/01/1900 | |
| | 3 Not Applicable: HS diploma or attended college | 01/01/1900 | |
| | 9 Unknown | 01/01/1900 | |

NOTE

If person has not graduated from high school and has not attended college, then code either "1" or "2", depending on whether or not he/she has a GED. If person has graduated from high school and/or has attended college, then code "3".

EXAMPLE

At time of interview, participant had a Masters Degree and a high school diploma. Code:

GEDF : 3

HISTORY

| <u>Date of Change</u> | <u>Description</u> |
|-----------------------|--|
| 01/01/2004 | Added NOTE : that coding is contingent on subject's high school/college education. |
| 01/01/2002 | Added CODE : 3=N/A. |



DEFINITION

Date the person with brain injury began competitive employment after discharge from inpatient rehabilitation. Includes illegal employment (see Employment Status [EMP] for more information and for data collection instructions).

VARIABLES

| Name | Description | Date Added | Date Removed |
|------------------|---|------------|--------------|
| EmpFirst | First Competitive Employment Date | 07/01/2001 | |
| Question: | When did you start working in a regular job following your injury? | | |
| 06/06/6666 | Variable Did Not Exist | 01/01/1900 | |
| 07/07/7777 | Refused | 01/01/1900 | |
| 08/08/8888 | Not Applicable: No post-injury competitive employment | 01/01/1900 | |
| 08/08/8899 | Not Applicable: Competitive employment reported at prior evaluation | 01/01/1900 | |
| 09/09/9999 | Unknown | 01/01/1900 | |

CODE

EmpFirst : MM/DD/YYYY

NOTE

The first day of work in which reimbursement was at or above the minimum wage.

If the exact date is unknown, estimate to the nearest half-month and code the day in the middle of that half month.

Length of employment does not matter (e.g., employed for 1 day counts).

If on disability payments and return to work, count this as the first day (if competitive).

Ask this question if the person has been competitively employed since the last evaluation even if not currently competitively employed.

If data collector does not ask this question because the participant's first employment was (or may have been) illegal, code "09/09/9999. Unknown."

EXAMPLE

Began paid, competitive work sometime in the first half of March 2000. Code:

EmpFirst : 03/08/2000

HISTORY

| Date of Change | Description |
|----------------|--|
| 01/01/2006 | Added to DEFINITION that this includes illegal employment. |
| 01/01/2006 | Added CODE : "07/07/7777 = Refused" |
| 01/01/2006 | Added NOTE : to code "09/09/9999=Unknown" if data collector does not ask question because first employment was illegal (or may have been). |
| 01/01/2006 | Deleted instruction to exclude illegal employment. |
| 04/01/2004 | Removed reference to "annual" evaluation. |
| 07/01/2002 | Changed 08/08/8888 from "not competitively employed" to "no post-injury competitive employment". |
| 07/01/2002 | Added NOTE : to ask this question even if participant is not currently competitively employed. |
| 01/01/2002 | Added CODE : to syllabus "06/06/6666 Variable did not exist" [already added to database?]. |
| 08/20/2001 | Added NOTE : |
| 07/01/2001 | Variable added to database. |

QUESTIONS

QUESTION: I have a follow-up with a participant who is scheduled to start work a week after the interview took place. Should I code this variable as the date he's actually scheduled to start employment?



Form: 2

Last updated: 01/01/2006

DATE OF FIRST COMPETITIVE EMPLOYMENT

Variable EMPFIRST

ANSWER: If this is the person's first regular job after the brain injury, then next week's start date is the date that should be coded for EMPFIRST. If his planned employment falls through, be sure to correct this information in the database. CORRECTION - If a person is not employed at the time of the interview they should not be coded as NA



DEFINITION

AT 1 YEAR FOLLOW-UP: Number of weeks of competitive employment during the year after injury.

AT OTHER FOLLOW-UPS: Number of weeks of competitive employment in the last year.

Include illegal as well as legal employment.

VARIABLES

| Name | Description | Date Added | Date Removed |
|-----------|---|------------|--------------|
| EmpWkF | Weeks Worked Past Year | 07/01/2001 | |
| Question: | In the past year, how many weeks did you work at a regular job? | | |
| 66 | Variable Did Not Exist | 01/01/1900 | |
| 77 | Refused | 01/01/1900 | |
| 88 | Not Applicable: No competitive employment in the last year | 01/01/1900 | |
| 99 | Unknown | 01/01/1900 | |

CODE

Number of weeks range : 1 - 52 weeks

NOTE

Include all weeks employed at minimum wage or higher.

Include vacation time and other types of leave if the person was paid during that time.

Partial weeks are rounded up to the nearest whole week.

Ask this question if the person has been competitively employed since the last evaluation, even if not currently competitively employed.

If employment is infrequent but on a regularly scheduled basis, or if it is related to a specific function, then code the number of weeks during which the person was employed. But, if days of employment were just random and the person might or might not do it again, then code the total number of weeks in which the person worked. (E.g., if the person worked 2 times a month for 9 months, then in the first situation 39 weeks should be coded. In the second situation 18 weeks should be coded.)

If data collector does not ask this question because the participant was illegally employed, code "99. Unknown."

EXAMPLE

Patient worked October 11 through December 21. Code:

EmpWkF : 11

HISTORY

| Date of Change | Description |
|----------------|---|
| 01/01/2006 | Added to DEFINITION that this includes illegal employment. |
| 01/01/2006 | Added CODE : "77=Refused". |
| 01/01/2006 | Added NOTE : to code "99=Unknown" if data collector does not ask because employment was illegal. |
| 01/01/2006 | Removed NOTE that this include only legal employment. |
| 07/01/2004 | In DEFINITION and CODES, changed time period from "since the last evaluation" to "in the last year" |
| 07/01/2004 | Removed reference to "annual" evaluation. |
| 01/01/2003 | Added NOTE : about coding infrequent employment. |
| 08/20/2001 | Added CODE : "66=Variable did not exist". |
| 07/01/2001 | Variable added to database. |



DEFINITION

Average number of hours per week usually worked in all paid competitive jobs (minimum wage or greater) in the month prior to evaluation. Includes illegal employment (see [EMP] for more information and for data collection instructions).

VARIABLES

| Name | Description | Date Added | Date Removed |
|------------------|--|------------|--------------|
| EmpHrF | Hours Worked per Week | 01/01/1900 | |
| Question: | About how many hours per week do you work at a regular job? | | |
| 777 | Refused | 01/01/1900 | |
| 888 | Not Applicable: Not currently competitively employed | 01/01/1900 | |
| 999 | Unknown | 01/01/1900 | |

CODE

Hours per week range : 1 - 168 hours

NOTE

Fractions are to be rounded to the nearest whole number. 0.5 should be rounded upward.

Code actual number of hours per week only for those cases coded 05 (competitively employed) in [EMP] otherwise this variable must be coded 88.

If patient is employed more than 98 hours per week, code as 98 hours.

If patient works two jobs, add all hours together to code.

Skip this question if the person is not currently competitively employed.

If data collector does not ask this question because the participant is illegally employed, code "999. Unknown."

EXAMPLE

Patient was employed 37.5 hours per week. Code:

EmpHrF : 38

HISTORY

| Date of Change | Description |
|----------------|--|
| 07/01/2005 | Added to CHARACTERISTICS OF DATA that the TBINDC changed all 88 and 99 codes in the database to 888 and 999 when the missing data codes were changed (4/1/05) from 88 and 99 to 888 and 999. |
| 04/01/2005 | Changed field width from 2 characters to 3. |
| 04/01/2005 | Changed missing data codes 88 and 99 to 888 and 999. |
| 04/01/2005 | Deleted missing data code 66=variable did not exist. (Variable has always existed.) |
| 04/01/2002 | Added "not competitively employed" to code "88=NA". |
| 01/01/2002 | Clarified instruction to code this variable if "05=competitive employment" is coded for either |
| 08/20/2001 | Added CODE : "66=Variable did not exist". |
| 04/02/1999 | Added NOTE : regarding coding hours greater than 98 and hours for more than one job. |
| 07/01/1995 | Added NOTE : clarifying when to code variable in relationship to variable V211a. |



DEFINITION

Annualized income from competitive employment, based on all competitive employment at the time of the evaluation. Calculate the person's income for the next year as if he/she were to continue to earn at the rate at the time of the follow-up evaluation. Do not take into account anticipated future changes in income - no matter how large or how temporary the present rate of earning.

Includes illegal as well as legal employment (see Employment Status [EMP] for more information and for data collection instructions).

VARIABLES

| <u>Name</u> | <u>Description</u> | <u>Date Added</u> | <u>Date Removed</u> |
|------------------|--|-------------------|---------------------|
| EarnF | Annual Earnings | 07/01/2001 | |
| Question: | What is your total annual salary, based on your current job(s)? | | |
| 1 | \$9,999 or less | 01/01/1900 | |
| 2 | 10,000 - \$19,999 | 01/01/1900 | |
| 3 | \$20,000 - \$29,999 | 01/01/1900 | |
| 4 | \$30,000 - \$39,999 | 01/01/1900 | |
| 5 | \$40,000 - \$49,999 | 01/01/1900 | |
| 6 | \$50,000 - \$59,999 | 01/01/1900 | |
| 7 | \$60,000 - \$69,999 | 01/01/1900 | |
| 8 | \$70,000 - \$79,999 | 01/01/1900 | |
| 9 | \$80,000 - \$89,999 | 01/01/1900 | |
| 10 | \$90,000 - \$99,999 | 01/01/1900 | |
| 11 | \$100,000 or More | 01/01/1900 | |
| 66 | Variable Did Not Exist | 01/01/1900 | |
| 77 | Refused | 01/01/1900 | |
| 88 | Not Applicable (No competitive employment in the last year) | 01/01/1900 | |
| 99 | Unknown | 01/01/1900 | |

NOTE

Do not ask 'how much did you earn last year?' as this may be incorrect due to different current salary earnings.

Include only competitive, above-minimum wage employment.

Include salary, commissions, tips, and bonuses.

Exclude income support, investment income, and settlements.

Ask this question only if person is currently competitively employed, because this is a measure of projected income based on current competitive employment.

If patient is illegally employed and--in the data collector's judgement - it would be inappropriate to ask about this participant's income, then use code "99. Unknown."

EXAMPLE

Until this month, employment income was \$675 a week from a full-time job. Employment income is now \$255 a week from part-time work and about \$425 a month from a home business. Code:

EarnF : 02

HISTORY

| <u>Date of Change</u> | <u>Description</u> |
|-----------------------|--|
| 01/01/2006 | Added NOTE : to code "99=Unknown" if data collector did not ask question because employment was illegal. |
| 04/01/2004 | Removed reference to "annual" evaluation. |
| 01/01/2004 | Added NOTE : to include tips. |
| 01/01/2002 | Replaced code "66=Not due" with "66=Variable did not exist" (error in syllabus, not forms). |
| 10/01/2001 | Definition modified to emphasize this is an annualized estimate based on current jobs. |
| 07/01/2001 | Variable added to database. |



Form: 2

Last updated: 01/01/2006

ANNUAL EARNINGS

Variable EARN



DEFINITION

Code primary employment status in the month prior to the evaluation.

Determine primary status by using the following prioritization, regardless of the number of hours worked: competitive employment, degree-oriented education, taking care of house or family, job-directed/on-the-job training, supported employment, sheltered employment, non-directed coursework, volunteer work, retirement (age-related), retirement (disability-related), and no productive activity.

The purpose of the employment variables is to record the extent to which participants are engaging in productive work and, also, their personal earning power [EARN]. Whether employment is legal or illegal is not relevant to coding any of the employment variables. (But see NOTE below about collecting information about illegal employment).

VARIABLES

Table with 4 columns: Name, Description, Date Added, Date Removed. Row 1: Emp1F, Employment Status: Primary, 01/01/1900. Row 2: Question: What is your current employment status? Row 3-20: 2 Full Time Student (Regular class) 01/01/1900, 3 Part Time Student (Regular class) 01/01/1900, 4 Special Education / Other Non-Regular Education 01/01/1900, 5 Competitively Employed (Minimum wage or greater, legal or illegal employment, *includes on leave with pay) 01/01/1900, 7 Taking Care of House or Family 01/01/1900, 8 Special Employed (Sheltered workshop, supportive employment, has job coach) 01/01/1900, 9 Retired: Age-related 01/01/1900, 10 Unemployed: Looking (Looking for work in the last 4 weeks) 01/01/1900, 11 Volunteer Work 01/01/1900, 12 Retired: Disability 01/01/1900, 13 Unemployed: Not Looking (Not looking for work in last 4 weeks for any reason) 01/01/1900, 14 Hospitalized Without Pay (Not looking for work in the last 4 weeks) 01/01/1900, 15 Retired: Other 01/01/1900, 16 On Leave from Work: Not receiving pay (Not receiving pay) 01/01/1900, 55 Other 01/01/1900, 66 Variable Did Not Exist 01/01/1900, 77 Refused 01/01/1900, 99 Unknown 01/01/1900

NOTE

If patient is in the hospital at the time of follow-up, employment status is that status existing at the time of admission to the hospital.

Competitive subminimum wage employment such as babysitting, newspaper delivery, and piecework should be coded "55. Other."

Code "09. Retired (Age-related)" if respondent indicates that retirement was due to age (use respondent's definition).

Ignore non-employment sources of income such as pension, settlement, or disability income support.

If participant works in a foreign country, assume wage is not subminimum unless there is information to the contrary.

If participant is employed for only part of the month prior to the follow-up evaluation, code employment status as during the majority of the work days during that month.

Code education as full-time or part-time based on self-report.

If person has been hired but has not begun work, code as unemployed.

Illegal employment includes work that is illegal (e.g., selling drugs) as well as illegally engaging in legal work (e.g., non-citizens doing construction work without a proper work authorization documentation).

DATA COLLECTORS: Do not ask the respondent if employment is legal or illegal. That distinction is not needed for any of the employment questions. If in the course of the interview you learn that that some or all employment is illegal, continue asking the employment questions as long as providing



that information does not become uncomfortable for the respondent and would therefore risk jeopardizing the rest of the interview.

EXAMPLE

Patient was a homemaker at the time of evaluation, with no other employment status. Code:

Emp1F : 07

HISTORY

| <u>Date of Change</u> | <u>Description</u> |
|-----------------------|--|
| 01/01/2006 | Added to DEFINITION that no distinction is to be made between legal and illegal employment. |
| 01/01/2006 | Added NOTE : about appropriate strategy to use in collecting information if employment was illegal. |
| 01/01/2006 | Added CODE: 16=on leave from work not receiving pay. |
| 04/01/2004 | Moved prioritization list from NOTES to DEFINITION. |
| 04/01/2004 | Added information to CHARACTERISTICS OF DATA about the employment calculated variable, which merges current data with data collected before the response categories were expanded. |
| 01/01/2004 | Added NOTE : to code education as full-time or part-time based on self-report. |
| 09/13/1994 | Dropped third employment status. |

QUESTIONS

QUESTION: I have a 61 year-old man who worked most of his life in an engineering position. A few months ago he was laid off and went to work as a salesman in a large home supply store where he subsequently was injured. In the year after his injury, he returned to this job. However, after 24 weeks, he decided to retire because of fatigue, and because it really wasn't the kind of work he was trained to do. He has no plans to work again.

ANSWER: Recall that "employment status" is coded according to the coding priority as shown on the data collection form and in the syllabus. The coding priority is applied in cases when more than one employment status is indicated by the respondent. In your example the person says that he retired due to fatigue (presumably "disability" due to the brain injury) and to the job not being the kind of work he was trained to do (ie., an "other" reason). The coding priority lists "retired (disability)" but does not list "retired (other)", so "retired (disability)" is the higher priority and is the correct choice. The other two categories you wonder about--"retired (age)" and "unemployed (not looking)"--can be ruled out because they aren't indicated by the respondent.

QUESTION: We have two older gentlemen right now who own companies. They are back to work in some respect I guess but both of them just wander down to the office, actually now need more help than before to even get to the office, and then they hang out for awhile and oversee a bit, but their children who are also involved in the business assure me they make no important decisions. They just like work and the biz and don't care to think of themselves as retired. I know this has been discussed before but I can't find anything in the syllabus. So how do we code these folks for employment? They both draw a modest salary but don't really seem to do much at work other than hang out, listen in, and serve as more of a figure head. So this doesn't seem like competitively employed to me. And one of them is quite physically disabled with notable cognitive impairments so on DRS employability I would lean towards giving him a high score in the 2-3 range but our coder put him as competitively employed but those don't jive. Any advice?

ANSWER: These cases should be coded as '08 - Special Employment (sheltered workshop, supportive employment, has job coach)' as it seems the participants are really only able to work with the support of their children. Collect census occupational code and vocational services questions, but code all other 211 employment variables as 'N/A - Not competitively employed'. Income earned as a result of owning a business in which a person is not truly competitively employed should be considered an investment rather than a salary and should be coded under variable 292c - Family Income.

QUESTION: I have a question regarding how to code Employment Status and Census Occupational Category for a patient who has been working in a trial job for the last 9 months through workers comp. He works 12 hours a week at his former place of employment, which he is still the vice-president of. He has nowhere near the amount of responsibility he had previously, and is not receiving any separate payment for working, just receiving the same work comp payment he was receiving while he was not working, and has been doing this since November. It sounds to me like they are keeping a job for him as a courtesy. He even admits that this is what it feels like to him because he just can't focus on the job and does report to someone else, but he's not supervised frequently (no job coach or anyone that directs him). How would you code Employment Status?



ANSWER: Employment status should probably be coded as 'other', as it truly does not seem to fit within the other categories. To be 'competitively employed', the person must be earning minimum wage or higher, and there are no wages being paid to the individual. The individual is not working in a sheltered workshop, with a job coach, or with a vocational rehab counselor so 'special employment' doesn't seem appropriate either. Similarly, the 'volunteer' category doesn't really fit since the individual is attempting to test his employability, rather than perform an act of altruism.

QUESTION: How would you code Employment Status for a participant that was in college at the time of injury, and has not gone back to school yet, but will be attending in the fall when the next semester starts?

ANSWER: If a participant is a student at the time of injury, then they are considered a student. However, if they are not a student at the time of injury then code as a non-student due to that fact that even though they are planning to attend school it doesn't mean they will.

QUESTION: If someone is working on their GED and attending regularly, would that count as regular part time classes for Employment Status?

ANSWER: Yes. Employment Status would be coded as Part-time Student, as long as they are just taking these classes and not working at all.



DEFINITION

The major census occupational category in which the patient's occupation is included for his/her primary occupation in the month prior to the follow-up evaluation.

Instructions from Bureau of Census for collecting this information appear to not distinguish legal from illegal employment. The TBIMS Data Committee clarified that illegal employment is to be included (to take effect 1/1/06). See Employment Status [EMP] for more information and for data collection instructions.

VARIABLES

| Name | Description | Date Added | Date Removed |
|------------------|--|------------|--------------|
| OCCF | Census Occupational Category | 01/01/1900 | |
| Question: | What kind of work do you currently do? | | |
| | 1 Executive, Administrative, and Managerial | 01/01/1900 | |
| | 2 Professional Speciality | 01/01/1900 | |
| | 3 Technicians and Related Support | 01/01/1900 | |
| | 4 Sales | 01/01/1900 | |
| | 5 Administrative Support (Includes clerical) | 01/01/1900 | |
| | 6 Private Household | 01/01/1900 | |
| | 7 Protective Service | 01/01/1900 | |
| | 8 Service, except Protective and Household | 01/01/1900 | |
| | 9 Farming, Forestry, and Fishing | 01/01/1900 | |
| | 10 Precision Production, Craft, and Repair | 01/01/1900 | |
| | 11 Machine Operators, Assemblers, and Inspectors | 01/01/1900 | |
| | 12 Transportation and Material Moving | 01/01/1900 | |
| | 13 Handlers, Equipment Cleaners, Helpers, and Laborers | 01/01/1900 | |
| | 14 Military Occupations | 01/01/1900 | |
| | 77 Refused | 01/01/1900 | |
| | 88 Not Applicable | 01/01/1900 | |
| | 99 Unknown | 01/01/1900 | |

CODE

Code the patient's primary occupation using the categories below. For a list of the specific occupations in each category, see the "1990 Census of Population Occupational Classification System", pages 9-22 of this document: See External Links. For instructions using this document see External Links.

NOTE

Code only if Employment Status [EMP] is coded "05. Competitively Employed" or "08. Special Employed." Otherwise this variable must be coded "88. Not Applicable."

When determining the military occupational category, try to select the civilian occupation that most closely parallels the military occupation and locate that civilian occupation in the 1990 Census Occupation Codes. Following this method, if 'Combat Infantry' was the military occupation then the closest civilian occupation may be 'SWAT team', which would be coded as 7 – Protective Service.

If data collector does not ask this question because participant is illegally employed, code "99. Unknown."

EXAMPLE

Patient was primarily a sales clerk at the time of the follow-up evaluation. Code:

OCCF : 04

HISTORY

| Date of Change | Description |
|----------------|--|
| 01/01/2006 | Added to DEFINITION that this includes illegal employment. |
| 01/01/2006 | Added CODE : "77=Refused". |
| 04/01/2004 | Added link to website with occupation codes information. |



Form: 2

CENSUS OCCUPATIONAL CATEGORY

Last updated: 01/01/2006

Variable OCC

| | |
|------------|---|
| 04/01/2004 | Added link to website with occupation codes information. |
| 04/01/2004 | In DEFINITION and EXAMPLE, removed "annual". |
| 01/01/2004 | Deleted note referring to primary and secondary employment status (secondary employment was no longer as of 1/1/03). |
| 01/01/2002 | Added NOTE : to code this variable if EMP is 05 or 08 in either primary or secondary occupation. |
| 07/01/1995 | Added NOTE : clarifying when to code variable in relationship to variable EMP. |
| 09/13/1994 | Converted to using the 1990 Census codes and only coding major category of occupation instead of specific classification. |

SOURCE

1990 Occupational Classification System, Alphabetical Index of Industries and Occupations, 1990 Census of Population and Housing, Bureau of the Census, U.S. Department of Commerce.



Form: 2

HOUSEHOLD INCOME

Last updated:

Variable HHINC

DEFINITION

Household income during the past year (from time of data collection back 12 months)

VARIABLES

| <u>Name</u> | <u>Description</u> | <u>Date Added</u> | <u>Date Removed</u> |
|------------------|--|-------------------|---------------------|
| HHIncome | Past Year Total Family Income | 10/01/2012 | |
| Question: | I am going to read a list of income categories. Tell me which category best describes your total family income for the past year. Include the income of any family member who was living with you, as well as your own income when choosing the category. | | |
| 1 | Less than \$25,000 | 10/01/2012 | |
| 2 | \$25,000 - \$49,999 | 10/01/2012 | |
| 3 | \$50,000 - \$99,999 | 10/01/2012 | |
| 4 | \$100,000 - \$149,999 | 10/01/2012 | |
| 5 | \$150,000 - \$199,999 | 10/01/2012 | |
| 6 | \$200,000 or More | 10/01/2012 | |
| 7 | Refused | 10/01/2012 | |
| 8 | Variable Did Not Exist | 10/01/2012 | |
| 9 | Unknown | 10/01/2012 | |

NOTE

This variable will be coded at each Form II follow-up. Preface the question by saying, "How much money people have often determines what services they have access to and how healthy they can be after an injury. For this reason, we are interested in knowing the household income of people in our study. I am going to ask you to estimate how much money was made in your entire household during the past year (12 months preceding today). You don't have to tell me the exact amount. I am going to read some choices and you can just tell me which one applies to your household. Be assured that your answers will be stored in a database that does not include your name, and we will not be talking to any government agency about your income. When I ask you to estimate your household income, this means your combined family income. I mean your income PLUS the income of all family members living in this household (including cohabiting partners, and armed forces members living at home). Please consider the following types of income that you may receive: wages and salaries; self-employment income (including business and farm); social security and railroad retirement; disability pension; SSI; cash assistance from state or county welfare; non-cash assistance (e.g., food stamps); interest income from banks and investment accounts; dividend income from stocks and mutual funds; net rental income; royalties, estates, and trusts; child support, alimony, or contributions from other family members; VA payments, workers comp, or unemployment comp. What is your best estimate of the total income of all family members in your household from all sources, before taxes, in the last year?"

If the participant does not know the household income, then ask if there is another person that you can speak with who may be able to answer. Word the question in the same manner.

For participants who live with one or more roommates who contribute to household expenses, but who do not otherwise contribute funds for the needs and care of the person with injury, do not include their income.

For students who live away for college, count their parents' or other family members' contributions to their household.

HISTORY

| <u>Date of Change</u> | <u>Description</u> |
|-----------------------|--------------------|
|-----------------------|--------------------|

SOURCE

The categories chosen were based on the 2008 income statistics at the following site:
<http://www.census.gov/compendia/statab/2011/tables/11s0689.pdf>



DEFINITION

To objectively assess participation or involvement in a life situation.

PRTHome: In a typical week, how many hours do you spend in active homemaking, including cleaning, cooking and raising children?

PRTSchool: In a typical week, how many hours do you spend in school working toward a degree or in an accredited technical training program, including hours in class and studying?

PRTWork: In a typical week, how many hours do you spend working for money, whether in a job or self-employed?

VARIABLES

| <u>Name</u> | <u>Description</u> | <u>Date Added</u> | <u>Date Removed</u> |
|------------------|---|-------------------|---------------------|
| PRTHome | Hours Spent in Active Homemaking | 10/01/2007 | |
| Question: | In active homemaking, including cleaning, cooking and raising children? | | |
| 0 | None | 10/01/2007 | |
| 1 | 1 - 4 Hours | 10/01/2007 | |
| 2 | 5 - 9 Hours | 10/01/2007 | |
| 3 | 10 - 19 Hours | 10/01/2007 | |
| 4 | 20 - 34 Hours | 10/01/2007 | |
| 5 | 35 or More Hours | 10/01/2007 | |
| 6 | Variable Did Not Exist | 10/01/2007 | |
| 7 | Don't Know/Not Sure | 10/01/2007 | |
| 9 | Refused | 10/01/2007 | |
| PRTSchool | Hours Spent in School | 10/01/2007 | |
| Question: | In school working toward a degree or in an accredited technical training program, including hours in class and studying? | | |
| 0 | None | 10/01/2007 | |
| 1 | 1 - 4 Hours | 10/01/2007 | |
| 2 | 5 - 9 Hours | 10/01/2007 | |
| 3 | 10 - 19 Hours | 10/01/2007 | |
| 4 | 20 - 34 Hours | 10/01/2007 | |
| 5 | 35 or More Hours | 10/01/2007 | |
| 6 | Variable Did Not Exist | 10/01/2007 | |
| 7 | Don't Know/Not Sure | 10/01/2007 | |
| 9 | Refused | 10/01/2007 | |
| PRTWork | Hours Spent Working for Money | 10/01/2007 | |
| Question: | Working for money, whether in a job or self-employed? | | |
| 0 | None | 10/01/2007 | |
| 1 | 1 - 4 Hours | 10/01/2007 | |
| 2 | 5 - 9 Hours | 10/01/2007 | |
| 3 | 10 - 19 Hours | 10/01/2007 | |
| 4 | 20 - 34 Hours | 10/01/2007 | |
| 5 | 35 or More Hours | 10/01/2007 | |
| 6 | Variable Did Not Exist | 10/01/2007 | |
| 7 | Don't Know/Not Sure | 10/01/2007 | |
| 9 | Refused | 10/01/2007 | |

HISTORY

| <u>Date of Change</u> | <u>Description</u> |
|-----------------------|-------------------------------|
| | Variable(s) added to Database |



QUESTIONS

QUESTION: Should hours spent working in a sheltered workshop or other types of "special employment" be included under the question "In a typical week, how many hours do you spend working for money, whether in a job or self-employed?"

ANSWER: Yes, hours spent working for money should be included whether the person is competitively employed, special employed, or in a paid internship.

QUESTION: A participant broke his leg a month before I completed the follow-up interview with him. Prior to that, he had returned to work and driving. For a "typical" week and month on the PART, he struggled with how to answer and essentially gave me two answers for each question: "Before I broke my leg, I was doing that X hours, but now I'm not doing any." Which answers do I code?

ANSWER: The PART Interviewer Manual states; "If there has been a major change in routine lately, it is appropriate to base the new response that is recorded on the most recent period, as long as there have been three to four weeks of the new pattern."



DEFINITION

To objectively assess participation or involvement in a life situation.

PRTSocFrnd: In a typical week, how many times do you socialize with friends, in person or by phone? Please do not include socializing with family members

PRTSocFam: In a typical week, how many times do you socialize with family and relatives, in person or by phone?

PRTEmotSup: In a typical week, how many times do you give emotional support to other people, that is, listen to their problems or help them with their troubles?

PRTInternet: In a typical week, how many times do you use the Internet for communication, such as for e-mail, visiting chat rooms or instant messaging?

VARIABLES

| Name | Description | Date Added | Date Removed |
|--------------------|--|-------------------|--------------|
| PRTSocFrnd | Socialize with Friends | 10/01/2007 | |
| Question: | Socialize with friends, in person or by phone? Please do not include socializing with family members. | | |
| 0 | None | 10/01/2007 | |
| 1 | 1 - 4 Times | 10/01/2007 | |
| 2 | 5 - 9 Times | 10/01/2007 | |
| 3 | 10 - 19 Times | 10/01/2007 | |
| 4 | 20 - 34 Times | 10/01/2007 | |
| 5 | 35 or More Times | 10/01/2007 | |
| 6 | Variable Did Not Exist | 10/01/2007 | |
| 7 | Don't Know/Not Sure | 10/01/2007 | |
| 9 | Refused | 10/01/2007 | |
| PRTSocFam | Socialize with Family and Relatives | 10/01/2007 | |
| Question: | Socialize with family and relatives, in person or by phone? | | |
| 0 | None | 10/01/2007 | |
| 1 | 1 - 4 Times | 10/01/2007 | |
| 2 | 5 - 9 Times | 10/01/2007 | |
| 3 | 10 - 19 Times | 10/01/2007 | |
| 4 | 20 - 34 Times | 10/01/2007 | |
| 5 | 35 or More Times | 10/01/2007 | |
| 6 | Variable Did Not Exist | 10/01/2007 | |
| 7 | Don't Know/Not Sure | 10/01/2007 | |
| 9 | Refused | 10/01/2007 | |
| PRTEmotSup | Give Emotional Support to Other People | 10/01/2007 | |
| Question: | Give emotional support to other people, that is, listen to their problems or help them with their troubles? | | |
| 0 | None | 10/01/2007 | |
| 1 | 1 - 4 Times | 10/01/2007 | |
| 2 | 5 - 9 Times | 10/01/2007 | |
| 3 | 10 - 19 Times | 10/01/2007 | |
| 4 | 20 - 34 Times | 10/01/2007 | |
| 5 | 35 or More Times | 10/01/2007 | |
| 6 | Variable Did Not Exist | 10/01/2007 | |
| 7 | Don't Know/Not Sure | 10/01/2007 | |
| 9 | Refused | 10/01/2007 | |
| PRTInternet | Use Internet for Communication | 10/01/2007 | |
| Question: | Use the Internet for communication, such as for e-mail, visiting chat rooms or instant messaging? | | |
| 0 | None | 10/01/2007 | |



Form: 2

PARTICIPATION SOCIAL

Last updated:

Variable PRTWKTM

| | | |
|---|------------------------|------------|
| 1 | 1 - 4 Times | 10/01/2007 |
| 2 | 5 - 9 Times | 10/01/2007 |
| 3 | 10 - 19 Times | 10/01/2007 |
| 4 | 20 - 34 Times | 10/01/2007 |
| 5 | 35 or More Times | 10/01/2007 |
| 6 | Variable Did Not Exist | 10/01/2007 |
| 7 | Don't Know/Not Sure | 10/01/2007 |
| 9 | Refused | 10/01/2007 |

HISTORY

Date of Change

Description

Variable(s) added to Database



DEFINITION

To objectively assess participation or involvement in a life situation.

PRTOutHse: In a typical week, how many days do you get out of your house and go somewhere? It could be anywhere – it doesn't have to be anyplace "special".

VARIABLES

| <u>Name</u> | <u>Description</u> | <u>Date Added</u> | <u>Date Removed</u> |
|------------------|---|-------------------|---------------------|
| PRTOutHse | Get Out of House and Go Somewhere | 10/01/2007 | |
| Question: | In a typical week, how many days do you get out of your house and go somewhere? It could be anywhere. It doesn't have to be any place "special". | | |
| 0 | None | 10/01/2007 | |
| 1 | 1 - 2 Days | 10/01/2007 | |
| 2 | 3 - 4 Days | 10/01/2007 | |
| 3 | 5 - 6 Days | 10/01/2007 | |
| 4 | 7 Days | 10/01/2007 | |
| 6 | Variable Did Not Exist | 10/01/2007 | |
| 7 | Don't Know/Not Sure | 10/01/2007 | |
| 9 | Refused | 10/01/2007 | |

HISTORY

| <u>Date of Change</u> | <u>Description</u> |
|-----------------------|-------------------------------|
| 10/01/2007 | Variable(s) added to Database |



DEFINITION

To objectively assess participation or involvement in a life situation.

PRTEatOut: In a typical month, how many times do you eat in a restaurant?

PRTShop: In a typical month, how many times do you go shopping? Include grocery shopping, as well as shopping for household necessities, or just for fun.

PRTPlaySport: In a typical month, how many times do you engage in sports or exercise outside your home? Include activities like running, bowling, going to the gym, swimming, walking for exercise and the like.

PRTVol: In a typical month, how many times do you do volunteer work?

PRTMovie: In a typical month, how many times do you go to the movies?

PRTWtchSport: In a typical month, how many times do you attend sports events in person, as a spectator?

PRTReligion: In a typical month, how many times do you attend religious or spiritual services? Include places like churches, temples and mosques.

VARIABLES

| Name | Description | Date Added | Date Removed |
|---------------------|---|-------------------|--------------|
| PRTEatOut | Eat in Restaurant | 10/01/2007 | |
| Question: | Eat in a restaurant? | | |
| 0 | None | 10/01/2007 | |
| 1 | 1 - 4 Times | 10/01/2007 | |
| 2 | 5 - 9 Times | 10/01/2007 | |
| 3 | 10 - 19 Times | 10/01/2007 | |
| 4 | 20 - 34 Times | 10/01/2007 | |
| 5 | 35 or More Times | 10/01/2007 | |
| 6 | Variable Did Not Exist | 10/01/2007 | |
| 7 | Don't Know/Not Sure | 10/01/2007 | |
| 9 | Refused | 10/01/2007 | |
| PRTShop | Go Shopping/Groceries | 10/01/2007 | |
| Question: | Go shopping? Include grocery shopping, as well as shopping for household necessities, or just for fun. | | |
| 0 | None | 10/01/2007 | |
| 1 | 1 - 4 Times | 10/01/2007 | |
| 2 | 5 - 9 Times | 10/01/2007 | |
| 3 | 10 - 19 Times | 10/01/2007 | |
| 4 | 20 - 34 Times | 10/01/2007 | |
| 5 | 35 or More Times | 10/01/2007 | |
| 6 | Variable Did Not Exist | 10/01/2007 | |
| 7 | Don't Know/Not Sure | 10/01/2007 | |
| 9 | Refused | 10/01/2007 | |
| PRTPlaySport | Engage in Sports or Exercise Outside of Home | 10/01/2007 | |
| Question: | Engage in sports or exercise outside your home? Include activities like running, bowling, going to the gym, swimming, walking for exercise and the like. | | |
| 0 | None | 10/01/2007 | |
| 1 | 1 - 4 Times | 10/01/2007 | |
| 2 | 5 - 9 Times | 10/01/2007 | |
| 3 | 10 - 19 Times | 10/01/2007 | |
| 4 | 20 - 34 Times | 10/01/2007 | |
| 5 | 35 or More Times | 10/01/2007 | |
| 6 | Variable Did Not Exist | 10/01/2007 | |
| 7 | Don't Know/Not Sure | 10/01/2007 | |
| 9 | Refused | 10/01/2007 | |
| PRTVol | Do Volunteer Work | 10/01/2007 | |



| | | |
|------------------|---------------------------|------------|
| Question: | Do volunteer work? | |
| | 0 None | 10/01/2007 |
| | 1 One Time | 10/01/2007 |
| | 2 Two Times | 10/01/2007 |
| | 3 Three Times | 10/01/2007 |
| | 4 Four Times | 10/01/2007 |
| | 5 Five or More Times | 10/01/2007 |
| | 6 Variable Did Not Exist | 10/01/2007 |
| | 7 Don't Know/Not Sure | 10/01/2007 |
| | 9 Refused | 10/01/2007 |

| | | |
|-----------------|-------------------------|-------------------|
| PRTMovie | Go to the Movies | 10/01/2007 |
|-----------------|-------------------------|-------------------|

| | | |
|------------------|--------------------------|------------|
| Question: | Go to the movies? | |
| | 0 None | 10/01/2007 |
| | 1 One Time | 10/01/2007 |
| | 2 Two Times | 10/01/2007 |
| | 3 Three Times | 10/01/2007 |
| | 4 Four Times | 10/01/2007 |
| | 5 Five or More Times | 10/01/2007 |
| | 6 Variable Did Not Exist | 10/01/2007 |
| | 7 Don't Know/Not Sure | 10/01/2007 |
| | 9 Refused | 10/01/2007 |

| | | |
|---------------------|-----------------------------|-------------------|
| PRTWtchSport | Attend Sports Events | 10/01/2007 |
|---------------------|-----------------------------|-------------------|

| | | |
|------------------|--|------------|
| Question: | Attend sports events in person, as a spectator? | |
| | 0 None | 10/01/2007 |
| | 1 One Time | 10/01/2007 |
| | 2 Two Times | 10/01/2007 |
| | 3 Three Times | 10/01/2007 |
| | 4 Four Times | 10/01/2007 |
| | 5 Five or More Times | 10/01/2007 |
| | 6 Variable Did Not Exist | 10/01/2007 |
| | 7 Don't Know/Not Sure | 10/01/2007 |
| | 9 Refused | 10/01/2007 |

| | | |
|--------------------|---|-------------------|
| PRTReligion | Attend Religious or Spiritual Services | 10/01/2007 |
|--------------------|---|-------------------|

| | | |
|------------------|---|------------|
| Question: | Attend religious or spiritual services? Include places like churches, temples and mosques. | |
| | 0 None | 10/01/2007 |
| | 1 One Time | 10/01/2007 |
| | 2 Two Times | 10/01/2007 |
| | 3 Three Times | 10/01/2007 |
| | 4 Four Times | 10/01/2007 |
| | 5 Five or MoreTimes | 10/01/2007 |
| | 6 Variable Did Not Exist | 10/01/2007 |
| | 7 Don't Know/Not Sure | 10/01/2007 |
| | 9 Refused | 10/01/2007 |

HISTORY

| | |
|-----------------------|-------------------------------|
| <u>Date of Change</u> | <u>Description</u> |
| | Variable(s) added to Database |

QUESTIONS

QUESTION: Can PT count as exercise on the PART?



Form: 2

PARTICIPATION COMMUNITY

Last updated:

Variable PRTMO

ANSWER: The PART Manual reads "This question may be rephrased in any way necessary, as long as it results in a count of the number of times the person leaves his/her residence to engage in sport or exercise in a month. Any sport and any type of exercise can be counted. Walking for exercise can be a separate trip (e.g., power-walking in the park), or combined with other activities (e.g., walking to one's cousins house rather than driving, to get the benefit of the exercise). In-home activity, however energetic, is not to be counted. The focus of the PART-OSP is on leaving one's house and interacting with others, rather than the cardiovascular benefit of exercise." According to this, many aspects of physical therapy could be included here such as time spent lifting weights or on a treadmill, as long as the PT occurs outside of the home.



DEFINITION

To objectively assess participation or involvement in a life situation.

PRTSpouse: Do you live with your spouse or significant other?

VARIABLES

| <u>Name</u> | <u>Description</u> | <u>Date Added</u> | <u>Date Removed</u> |
|-------------|--|-------------------|---------------------|
| PRTSpouse | Live with Spouse or Significant Other | 10/01/2007 | |
| Question: | Switching, now, to a somewhat different kind of question... Do you live with your spouse or significant other? | | |
| 1 | No | 10/01/2007 | |
| 2 | Yes | 10/01/2007 | |
| 6 | Variable Did Not Exist | 10/01/2007 | |
| 7 | Don't Know/Not Sure | 10/01/2007 | |
| 9 | Refused | 10/01/2007 | |

HISTORY

| <u>Date of Change</u> | <u>Description</u> |
|-----------------------|---|
| | Variable(s) added to Database |
| | Changed CODES : Yes/No codes for items; Adult Education, Live with Spouse, Intimate Relationship and Friend to confide in - were changed from 1=Yes, 2=No to 1=No, 2=Yes to be consistent with all other Yes/No TBIMS variables. Existing data recoded to new convention on 4/1/2009. |



DEFINITION

To objectively assess participation or involvement in a life situation.

PRTRelation: Are you currently involved in an ongoing intimate, that is, romantic or sexual, relationship?

VARIABLES

| <u>Name</u> | <u>Description</u> | <u>Date Added</u> | <u>Date Removed</u> |
|-------------|---|-------------------|---------------------|
| PRTRelation | Involved in Ongoing Intimate Relationship | 10/01/2007 | |
| Question: | Are you currently involved in an ongoing intimate, that is, romantic or sexual, relationship? | | |
| | 1 No | 10/01/2007 | |
| | 2 Yes | 10/01/2007 | |
| | 6 Variable Did Not Exist | 10/01/2007 | |
| | 7 Don't Know/Not Sure | 10/01/2007 | |
| | 9 Refused | 10/01/2007 | |

HISTORY

| <u>Date of Change</u> | <u>Description</u> |
|-----------------------|---|
| | Variable(s) added to Database |
| | Changed CODES : Yes/No codes for items; Adult Education, Live with Spouse, Intimate Relationship and Friend to confide in - were changed from 1=Yes, 2=No to 1=No, 2=Yes to be consistent with all other Yes/No TBIMS variables. Existing data recoded to new convention on 4/1/2009. |



Form: 2

PARTICIPATION FRIEND

Last updated:

Variable PRTFRND

DEFINITION

To objectively assess participation or involvement in a life situation.

PRTFriend: Not including your spouse or significant other, do you have a close friend in whom you confide?

VARIABLES

| <u>Name</u> | <u>Description</u> | <u>Date Added</u> | <u>Date Removed</u> |
|-------------|---|-------------------|---------------------|
| PRTFriend | Have Close Friend to Confide in | 10/01/2007 | |
| Question: | Not including your spouse or significant other, do you have a close friend in whom you confide? | | |
| | 1 No | 10/01/2007 | |
| | 2 Yes | 10/01/2007 | |
| | 6 Variable Did Not Exist | 10/01/2007 | |
| | 7 Don't Know/Not Sure | 10/01/2007 | |
| | 9 Refused | 10/01/2007 | |

HISTORY

| <u>Date of Change</u> | <u>Description</u> |
|-----------------------|---|
| | Variable(s) added to Database |
| | Changed CODES : Yes/No codes for items; Adult Education, Live with Spouse, Intimate Relationship and Friend to confide in - were changed from 1=Yes, 2=No to 1=No, 2=Yes to be consistent with all other Yes/No TBIMS variables. Existing data recoded to new convention on 4/1/2009. |

QUESTIONS

QUESTION: When asked if they had a close friend in whom they confide in, participant responded "The Lord". Does this count?

ANSWER: No. Although this is a form of support the participant relies on, only people here on earth should be counted.



DEFINITION

The person with brain injury should rate his/her satisfaction with life at the time of the follow-up evaluation by indicating his/her level of agreement with the five questions below.

- (1) In most ways my life is close to my ideal.
- (2) The conditions of my life are excellent.
- (3) I am satisfied with my life.
- (4) So far I have gotten the important things I want in life.
- (5) If I could live my life over, I would change almost nothing.

For more information, see External Links

VARIABLES

| Name | Description | Date Added | Date Removed |
|------------------|---|-------------------|--------------|
| SWLSIdeal | Life is Close to Ideal | 01/01/1997 | |
| Question: | In most ways my life is close to my ideal | | |
| | 0 Variable Did Not Exist | 01/01/1900 | |
| | 1 Strongly Disagree | 01/01/1900 | |
| | 2 Disagree | 01/01/1900 | |
| | 3 Slightly Disagree | 01/01/1900 | |
| | 4 Neither Agree nor Disagree | 01/01/1900 | |
| | 5 Slightly Agree | 01/01/1900 | |
| | 6 Agree | 01/01/1900 | |
| | 7 Strongly Agree | 01/01/1900 | |
| | 8 Not Applicable: Variable not due this year (Code no longer used; data now collected in all follow-up years) | 01/01/1900 | |
| | 9 Unknown | 01/01/1900 | |
| | 10 Not Applicable: No data from person with TBI | 01/01/1900 | |
| SWLSCond | Life Conditions are Excellent | 01/01/1997 | |
| Question: | The conditions of my life are excellent | | |
| | 0 Variable Did Not Exist | 01/01/1900 | |
| | 1 Strongly Disagree | 01/01/1900 | |
| | 2 Disagree | 01/01/1900 | |
| | 3 Slightly Disagree | 01/01/1900 | |
| | 4 Neither Agree nor Disagree | 01/01/1900 | |
| | 5 Slightly Agree | 01/01/1900 | |
| | 6 Agree | 01/01/1900 | |
| | 7 Strongly Agree | 01/01/1900 | |
| | 8 Not Applicable: Variable not due this year (Code no longer used; data now collected in all follow-up years) | 01/01/1900 | |
| | 9 Unknown | 01/01/1900 | |
| | 10 Not Applicable: No data from person with TBI | 01/01/1900 | |
| SWLSSat | Satisfied with Life | 01/01/1997 | |
| Question: | I am satisfied with my life | | |
| | 0 Variable Did Not Exist | 01/01/1900 | |
| | 1 Strongly Disagree | 01/01/1900 | |
| | 2 Disagree | 01/01/1900 | |
| | 3 Slightly Disagree | 01/01/1900 | |
| | 4 Neither Agree nor Disagree | 01/01/1900 | |
| | 5 Slightly Agree | 01/01/1900 | |
| | 6 Agree | 01/01/1900 | |
| | 7 Strongly Agree | 01/01/1900 | |
| | 8 Not Applicable: Variable not due this year (Code no longer used; data now collected in all follow-up years) | 01/01/1900 | |
| | 9 Unknown | 01/01/1900 | |
| | 10 Not Applicable: No data from person with TBI | 01/01/1900 | |



Form: 2

Last updated: 04/01/2008

SATISFACTION WITH LIFE SCALE (SWLS) - FOR PERSON WITH BRAIN INJURY

Variable SWLS

SWLSImprt Gotten Important Things in Life 01/01/1997

Question: So far I have gotten the important things I want in life

| | | |
|----|---|------------|
| 0 | Variable Did Not Exist | 01/01/1900 |
| 1 | Strongly Disagree | 01/01/1900 |
| 2 | Disagree | 01/01/1900 |
| 3 | Slightly Disagree | 01/01/1900 |
| 4 | Neither Agree nor Disagree | 01/01/1900 |
| 5 | Slightly Agree | 01/01/1900 |
| 6 | Agree | 01/01/1900 |
| 7 | Strongly Agree | 01/01/1900 |
| 8 | Not Applicable: Variable not due this year (Code no longer used; data now collected in all follow-up years) | 01/01/1900 |
| 9 | Unknown | 01/01/1900 |
| 10 | Not Applicable: No data from person with TBI | 01/01/1900 |

SWLSLiveOver Change Nothing if Lived Life Over 01/01/1997

Question: If I could live my life over, I would change almost nothing

| | | |
|----|---|------------|
| 0 | Variable Did Not Exist | 01/01/1900 |
| 1 | Strongly Disagree | 01/01/1900 |
| 2 | Disagree | 01/01/1900 |
| 3 | Slightly Disagree | 01/01/1900 |
| 4 | Neither Agree nor Disagree | 01/01/1900 |
| 5 | Slightly Agree | 01/01/1900 |
| 6 | Agree | 01/01/1900 |
| 7 | Strongly Agree | 01/01/1900 |
| 8 | Not Applicable: Variable not due this year (Code no longer used; data now collected in all follow-up years) | 01/01/1900 |
| 9 | Unknown | 01/01/1900 |
| 10 | Not Applicable: No data from person with TBI | 01/01/1900 |

NOTE

Do not embellish when obtaining this information. If appropriate, use the cue "If that's what it means to you."

EXAMPLE

1. In most ways my life is close to my ideal : 2
2. The conditions of my life are excellent : 4
3. I am satisfied with my life : 4
4. So far I have gotten the important things I want in life : 6
5. If I could live my life over, I would change almost nothing : 2

HISTORY

| <u>Date of Change</u> | <u>Description</u> |
|-----------------------|--|
| 04/01/2008 | Added NOTE : Data collectors should try and obtain responses to the SWLS from the subject even when the remainder of the Form II is collected from a significant other |
| 01/01/2006 | Added instruction not to embellish. |
| 07/01/2004 | In CODES, added back in the code for "Not due this year" plus a statement that this code is no longer used. |
| 07/01/2004 | Removed reference to "annual" evaluation. |
| 04/01/2004 | Added links to COMBI. |
| 10/01/2003 | Added CODE : "10=N/A-no data from person w/ TBI" |
| 01/01/2003 | Deleted code "8=This variable not collected this year". |
| 04/01/1998 | Dropped quality of life and health questions, added Satisfaction With Life Scale (self-assessment by person with brain injury). |
| 01/01/1997 | Quality of Life and Health - new variable added to database. |

SOURCE



Form: 2

Last updated: 04/01/2008

**SATISFACTION WITH LIFE SCALE (SWLS) - FOR PERSON
WITH BRAIN INJURY**
Variable SWLS

Diener E, Emmons R, Larsen J, Griffin S. (1985). The Satisfaction With Life Scale. *J Personality Assessment*, 49(1), 71-75.

Pavot W, Deiner E. (1993). Review of the Satisfaction With Life Scale. *Psychological Assessment*. 5(3), 164-172.



Form: 2

MOTORIZED TRANSPORTATION

Last updated:

Variable TRANS

DEFINITION

Indicates the primary mode of motorized vehicular transportation, according to the best source of information (person with brain injury unless unavailable or unreliable).

VARIABLES

| <u>Name</u> | <u>Description</u> | <u>Date Added</u> | <u>Date Removed</u> |
|------------------|---|-------------------|---------------------|
| TransMode | Primary Transportation Mode | 01/01/1900 | |
| Question: | What is your primary method of motorized transportation? | | |
| 1 | Drives Vehicle | 01/01/1900 | |
| 2 | Rides with Someone Else | 01/01/1900 | |
| 3 | Public Transit | 01/01/1900 | |
| 4 | Special Bus or Van Service | 01/01/1900 | |
| 7 | Not Applicable: Variable not due this year (Code no longer used; data now collected in all follow-up years) | 01/01/1900 | |
| 8 | Not Applicable: No motorized transportation | 01/01/1900 | |
| 9 | Unknown | 01/01/1900 | |

EXAMPLE

Person with brain injury uses scheduled public bus service five days per week. Code:

TransMode : 3

HISTORY

| <u>Date of Change</u> | <u>Description</u> |
|-----------------------|--------------------|
|-----------------------|--------------------|



DEFINITION

The OSU TBI Identification Method-Short Form is a structured interview developed using recommendations from the CDC for the detection of and history of exposure to TBI. It was designed to elicit self- or proxy-reports of TBI occurring over a person's lifetime. The OSU TBI-ID-SF uses an interview methodology based on the original longer version, but only measures selected summary indices.

To avoid biases created by terminology used, the interview first elicits recall of all possible head or neck injuries through a series of queries tapping possible causes of TBI. This first step is critical for obtaining a complete history, and should not be interrupted by probing for more details at this stage. After all possible injuries have been elicited, the interviewer goes back to obtain more information about the injuries. For these injuries, the occurrence and length of loss of consciousness is probed. If there is no loss of consciousness, the presence of altered consciousness is probed. Age is also determined for any injuries reported. Finally, an estimate of the number of anoxic injuries due to drug overdose or choking is obtained. Using the structured elicitation method of the OSU TBI-ID-SF, multiple dimensions of history are available, including number of injuries with LOC, number of injuries with LOC>30 minutes, age at first TBI, whether there was an injury with LOC before the age of 15, worst injury, and # anoxic injuries due to drug overdose or being choked.

VARIABLES

| Name | Description | Date Added | Date Removed |
|--------------------|---|-------------------|--------------|
| TBIInjury | Head or Neck Injury Reported | 04/01/2010 | |
| Question: | Is there any head or neck injury reported? | | |
| | 1 No | 04/01/2010 | |
| | 2 Yes | 04/01/2010 | |
| | 6 Variable Did Not Exist | 04/01/2010 | |
| | 7 Refused | 04/01/2010 | |
| | 9 Unknown | 04/01/2010 | |
| TBIOverdose | Number from Overdose | 04/01/2010 | |
| Question: | Number from overdose | | |
| | 0 None | 04/01/2012 | |
| | 66 Variable Did Not Exist | 04/01/2010 | |
| | 77 Refused | 04/01/2010 | |
| | 99 Unknown | 04/01/2010 | |
| TBIChoking | Number from Choking | 04/01/2010 | |
| Question: | Number from choking | | |
| | 66 Variable Did Not Exist | 04/01/2010 | |
| | 77 Refused | 04/01/2010 | |
| | 99 Unknown | 04/01/2010 | |

CODE

Enter the following details for each head or neck injury reported:

CAUSE

Enter cause [30 characters]

LOSS OF CONSCIOUSNESS / KNOCKED OUT

- 1. No LOC
- 2. Less Than 30 Min
- 3. 30 Min To 24 Hrs
- 4. More Than 24 Hrs
- 5. Positive Loss of Consciousness, Duration Unknown
- 6. Variable Did Not Exist
- 7. Refused
- 9. Unknown

DAZED / GAP IN MEMORY

- 1. No
- 2. Yes
- 6. Variable Did Not Exist
- 7. Refused
- 8. Not Applicable (+ LOC)
- 9. Unknown



AGE

Enter age [max=110]

666. Variable Did Not Exist

888. Not Applicable

999. Unknown

TIMES LOST CONSCIOUSNESS FROM DRUG OVERDOSE

Enter number of times [max=65]

0 None

66 Variable Did Not Exist

77 Refused

99 Unknown

TIMES LOST CONSCIOUSNESS FROM BEING CHOKED

Enter number of times [max=65]

0 None

66 Variable Did Not Exist

77 Refused

99 Unknown

NOTE

This is a structured interview to detect lifetime history of TBI. It is not designed to be administered as a paper/pencil questionnaire.

Individuals are not directly asked about whether they had a traumatic brain injury, because of a tendency for misinterpretation of this and similar terms.

Many people have had multiple brain injuries in their life. We want to make sure we capture all injuries. For this reason, the first part of the interview is critical to obtaining information on all possible injuries. It should not be interrupted by probing for details, because that would disrupt the flow of recall.

"Multiple Mild Injuries": Some individuals have gone through periods in their life when they have sustained multiple mild TBIs, and they cannot distinguish between them. They usually describe such a period as a "blur." For example, they may have been victims of abuse, played football, etc. If the individual is unable to distinguish between these injuries, treat that period in the person's life as one injury. Ask the person to indicate the longest period that he/she was knocked out. For age, first ask the age range of the time period, then see if you can help them determine where the longest LOC happened in that time frame. If not known, use the midpoint of the age range.

The OSU TBI-ID variables replace History of TBI variables.

EXAMPLE

The participant reported 1 head injury with loss of consciousness lasting a couple of minutes while playing football at the age of 18. There were 2 more possible concussions reported due to motor vehicle accidents. One of the MVA's resulted in being dazed and a gap in memory. The participant never lost consciousness from drug overdose or choking. Code:

TBIInjury : 2

CAUSE : Football; LOC : 2; DAZED : 8; AGE : 18

CAUSE : MVA; LOC : 1; DAZED : 2; AGE : 18

CAUSE : MVA; LOC : 1; DAZED : 1; AGE : 18

TBIOverdose : 0

TBIChoking : 0

HISTORY

| <u>Date of Change</u> | <u>Description</u> |
|-----------------------|----------------------------------|
| 07/01/2011 | Variable(s) added to VA database |
| 04/01/2010 | Variable(s) added to database |

SOURCE

OSU



QUESTIONS

QUESTION: On the pre-injury questionnaire, the question refers

ANSWER: This difference is not important. The term "brain injury" is popularly used to refer to what the medical world refers to as "traumatic brain injury". For example, newspaper descriptions of auto accidents refer to "brain injury" rather than "traumatic brain injury". Also, as commonly used, the term "brain injury" does not include damage due to non-traumatic causes. Newspaper descriptions of persons who have suffered brain damage due to inhaling fumes or being without oxygen refer to "brain damage" rather than "brain injury".

QUESTION: I just spoke to a subject who reported "blacking out for a few seconds" following what they described as a very strong hit of marijuana, possibly from holding it in their lungs for too long. I sought clarification and asked if she lost consciousness, she said no, "just blacked out a few seconds." Would you consider that a very brief LOC or should we code strictly on self-report since she said no? And, if this is considered a LOC, would it get coded under Choking, or Overdose?

ANSWER: Treat this the same way as you would a blackout from drinking. The individual does not lose consciousness but does lose "time" (e.g. I can't remember dancing on the tables, but they said I did). So, no, do not count this as a LOC.

QUESTION: Should passing out from drinking be considered a "loss of consciousness from a drug overdose"?

ANSWER: No, passing out should not be considered a LOC. Most people will pass out before they are able to drink enough alcohol to lose consciousness. However, someone with severe alcoholism may be able to drink enough alcohol to lose consciousness. Additional probing may be necessary to differentiate between an episode of passing out, and a true LOC.

QUESTION: If a participant reports a TBI with loss of consciousness of an unknown duration, how should that be handled?

ANSWER: In these instances, you should try to do some additional probing to assist the participant with narrowing down the time frame. For example, if the person awakened at the scene, then it is likely that LOC was less than 30 minutes. If the person awakened while already hospitalized, but it was still the day of the injury, then LOC is likely 30 minutes to 24 hours, etc. After probing using various anchors, then the next step would be to offer the individual the choice regarding the three time periods. If the person still does not know, then the time frame should be coded as 5.



DEFINITION

SeizSncTBI: Have you had a seizure(s) since your traumatic brain injury?

SeizInYr: If yes, have you had a seizure within the past year?

SeizAmt: If yes, how many in the past year?

VARIABLES

| <u>Name</u> | <u>Description</u> | <u>Date Added</u> | <u>Date Removed</u> |
|-------------------|---|-------------------|---------------------|
| SeizSncTBI | Had Seizure(s) since TBI | 10/01/2012 | |
| Question: | Have you had a seizure(s) since your traumatic brain injury? | | |
| | 0 Variable Did Not Exist | 10/01/2012 | |
| | 1 No | 10/01/2012 | |
| | 2 Yes | 10/01/2012 | |
| | 9 Unknown | 10/01/2012 | |
| SeizInYr | Had Seizure in Past Year | 10/01/2012 | |
| Question: | Have you had a seizure within the past year? | | |
| | 0 Variable Did Not Exist | 10/01/2012 | |
| | 1 No | 10/01/2012 | |
| | 2 Yes | 10/01/2012 | |
| | 8 Not Applicable: No Seizures | 10/01/2012 | |
| | 9 Unknown | 10/01/2012 | |
| SeizAmt | Number of Seizures | 10/01/2012 | |
| Question: | How many seizures have you had in the past year? | | |
| | 0 Variable Did Not Exist | 10/01/2012 | |
| | 1 One | 10/01/2012 | |
| | 2 2 - 4 | 10/01/2012 | |
| | 3 5 - 20 | 10/01/2012 | |
| | 4 More than 20 | 10/01/2012 | |
| | 8 Not Applicable: No Seizures | 10/01/2012 | |
| | 9 Unknown | 10/01/2012 | |

NOTE

These measures can be collected from best source available during the Form II interview for all participants.

HISTORY

| <u>Date of Change</u> | <u>Description</u> |
|-----------------------|--------------------|
| 10/01/2012 | Added to Database |

**DEFINITION**

The reason for each patient's rehospitalization since inpatient rehabilitation discharge or in the past year (whichever is shorter).

VARIABLES

| Name | Description | Date Added | Date Removed |
|------------------|---|-------------------|---------------------|
| Rehosp1 | Rehospitalization Reason 1 | 01/01/1900 | |
| Question: | 1 Reason | | |
| | 0 Rehabilitation (Inpatient) | 01/01/1900 | |
| | 1 Seizures | 01/01/1900 | |
| | 2 Neurologic Disorder: Non-seizure | 01/01/1900 | |
| | 3 Psychiatric | 01/01/1900 | |
| | 4 Infectious | 01/01/1900 | |
| | 5 Orthopedic | 01/01/1900 | |
| | 6 General Health Maintenance or OB/Gyn | 01/01/1900 | |
| | 7 Other: Not specified elsewhere | 01/01/1900 | |
| | 8 Not Applicable: No rehospitalizations / no further rehospitalizations | 01/01/1900 | |
| | 9 Rehospitalized: Reason unknown | 01/01/1900 | |
| | 66 Variable Did Not Exist (Used only with variables REHOSP (3-5)) | 01/01/1900 | |
| | 99 Unknown | 01/01/1900 | |
| Rehosp2 | Rehospitalization Reason 2 | 01/01/1900 | |
| Question: | 2 Reason | | |
| | 0 Rehabilitation (Inpatient) | 01/01/1900 | |
| | 1 Seizures | 01/01/1900 | |
| | 2 Neurologic Disorder: Non-seizure | 01/01/1900 | |
| | 3 Psychiatric | 01/01/1900 | |
| | 4 Infectious | 01/01/1900 | |
| | 5 Orthopedic | 01/01/1900 | |
| | 6 General Health Maintenance or OB/Gyn | 01/01/1900 | |
| | 7 Other: Not specified elsewhere | 01/01/1900 | |
| | 8 Not Applicable: No rehospitalizations / no further rehospitalizations | 01/01/1900 | |
| | 9 Rehospitalized: Reason unknown | 01/01/1900 | |
| | 66 Variable Did Not Exist | 01/01/1900 | |
| | 99 Unknown | 01/01/1900 | |
| Rehosp3 | Rehospitalization Reason 3 | 01/01/1900 | |
| Question: | 3 Reason | | |
| | 0 Rehabilitation (Inpatient) | 01/01/1900 | |
| | 1 Seizures | 01/01/1900 | |
| | 2 Neurologic Disorder: Non-seizure | 01/01/1900 | |
| | 3 Psychiatric | 01/01/1900 | |
| | 4 Infectious | 01/01/1900 | |
| | 5 Orthopedic | 01/01/1900 | |
| | 6 General Health Maintenance or OB/Gyn | 01/01/1900 | |
| | 7 Other: Not specified elsewhere | 01/01/1900 | |
| | 8 Not Applicable: No rehospitalizations / no further rehospitalizations | 01/01/1900 | |
| | 9 Rehospitalized: Reason unknown | 01/01/1900 | |
| | 66 Variable Did Not Exist | 01/01/1900 | |
| | 99 Unknown | 01/01/1900 | |
| Rehosp4 | Rehospitalization Reason 4 | 01/01/1900 | |
| Question: | 4 Reason | | |
| | 0 Rehabilitation (Inpatient) | 01/01/1900 | |
| | 1 Seizures | 01/01/1900 | |
| | 2 Neurologic Disorder: Non-seizure | 01/01/1900 | |
| | 3 Psychiatric | 01/01/1900 | |
| | 4 Infectious | 01/01/1900 | |



| | | |
|----|---|------------|
| 5 | Orthopedic | 01/01/1900 |
| 6 | General Health Maintenance or OB/Gyn | 01/01/1900 |
| 7 | Other: Not specified elsewhere | 01/01/1900 |
| 8 | Not Applicable: No rehospitalizations / no further rehospitalizations | 01/01/1900 |
| 9 | Rehospitalized: Reason unknown | 01/01/1900 |
| 66 | Variable Did Not Exist | 01/01/1900 |
| 99 | Unknown | 01/01/1900 |

| Rehosp5 | Rehospitalization Reason 5 | 01/01/1900 |
|---------|----------------------------|------------|
|---------|----------------------------|------------|

| | | |
|------------------|---|------------|
| Question: | 5 Reason | |
| 0 | Rehabilitation (Inpatient) | 01/01/1900 |
| 1 | Seizures | 01/01/1900 |
| 2 | Neurologic Disorder: Non-seizure | 01/01/1900 |
| 3 | Psychiatric | 01/01/1900 |
| 4 | Infectious | 01/01/1900 |
| 5 | Orthopedic | 01/01/1900 |
| 6 | General Health Maintenance or OB/Gyn | 01/01/1900 |
| 7 | Other: Not specified elsewhere | 01/01/1900 |
| 8 | Not Applicable: No rehospitalizations / no further rehospitalizations | 01/01/1900 |
| 9 | Rehospitalized: Reason unknown | 01/01/1900 |
| 66 | Variable Did Not Exist | 01/01/1900 |
| 99 | Unknown | 01/01/1900 |

CODE

Code "66. Variable Did not Exist" should only be used for variables REHOSP3 through REHOSP5.

NOTE

This variable includes all types of hospitalizations (i.e., an inpatient stay in any hospital, whether part of a TBI Model System or not). See Linked Document for more information.

Code one reason for each rehospitalization.

If more than five hospitalizations, have your Medical Director prioritize which five to code.

Data for follow-ups prior to 10/1/99 will be recoded from text field to the categories above.

Prior to 1/1/02 the code "9. Unknown" did not distinguish between "unknown if rehospitalized" and "unknown reason for rehospitalization". On 1/1/02 "9. Unknown" was clarified to mean "unknown reason for rehospitalization". On 1/1/04 the code "99. Unknown, if Rehospitalized" was added. Thus, between 1/1/02 and 1/1/04 there was no way to record rehospitalization for unknown reason.

EXAMPLE

Patient has been hospitalized twice since the last evaluation. Once for seizures related to TBI, and once for complications of diabetes. Code:

Rehosp1 : 01
 Rehosp2 : 06
 Rehosp3 : 08
 Rehosp4 : 08
 Rehosp5 : 08

HISTORY

| Date of Change | Description |
|----------------|--|
| 04/01/2008 | Changed NOTE : to reflect 5 rehospitalizations the medical director should prioritize |
| 01/01/2007 | Added Rehospitalization code examples to linked documents |
| 01/01/2006 | Updated references to number of rehospitalizations to be coded from two to five. |
| 04/01/2005 | Added CODE : "66=variable did not exist at time of data collection" for variables REHOSP(3-5). |
| 04/01/2004 | Added to DEFINITION to ask for the last year (not since last evaluation). |
| 04/01/2004 | Added three more variables for recording types of rehospitalizations (for a total of 5). |
| 04/01/2004 | Improved wording of NOTE about "unknown" codes. |



| | |
|------------|---|
| 01/01/2004 | Changed field width from 1 to 2. |
| 01/01/2004 | Added CODE : 99. |
| 01/01/2004 | Added NOTE : that prior to 1/1/02 the code "9=unknown" did not distinguish between "unknown if rehospitalized" and "unknown reason for rehospitalization" (etc).. |
| 01/01/2002 | Added clarification to code 9. |
| 10/01/1999 | Dropped date fields and changed reason for rehospitalization from text field to a categorical variable. |
| 04/02/1999 | Revised unknown date codes to be compatible with new software. |
| 09/01/1998 | Added clarification of how to code if more than two rehospitalizations. |
| 08/15/1998 | Year expanded to 4 digits. |
| 01/01/1995 | Dropped rehospitalizations #3-#6. |

QUESTIONS

QUESTION: What re-hospitalization code you would suggest for the insertion of a Baclofen pump? Since that particular procedure is not listed would it be correct to code as 7 "other not specified"?

ANSWER: [It would actually be coded as Neurologic, because Baclofen is used to treat spasticity.](#)

QUESTION: Would an accidental overdose of pain meds fall under psychiatric re-hospitalization?

ANSWER: [Did the patient answer yes to "Have you been hospitalized for any psychiatric disorders? {PSYCHOSP}" Or yes to suicide attempts \[SUICIDE\]? If yes, and you know it was the same incident yes, code it as psychiatric. But if not, and you have no other indication that it was intentional, code it as General Health Maintenance \(they were trying to manage their pain and had complications\).](#)



DEFINITION

Determine if the person with brain injury has had psychiatric hospitalizations during the past year; according to the best source of information, which is the person with brain injury unless she or he is considered unreliable or is unavailable:

VARIABLES

| <u>Name</u> | <u>Description</u> | <u>Date Added</u> | <u>Date Removed</u> |
|------------------|---|-------------------|---------------------|
| PsyHospF | Psychiatric Hospitalizations: Past year | 01/01/1997 | |
| Question: | In the past year, have you been hospitalized for a psychiatric disorder? | | |
| 0 | Variable Did Not Exist | 01/01/1900 | |
| 1 | No | 01/01/1900 | |
| 2 | Yes | 01/01/1900 | |
| 6 | Not Applicable: Variable not due this year (Code no longer used; data now collected in all follow-up years) | 01/01/1900 | |
| 7 | Refused | 01/01/2009 | |
| 9 | Unknown | 01/01/1900 | |

EXAMPLE

Person with brain injury reports he/she has not attempted suicide, has not had any psychiatric hospitalizations. Code:

PsyHospF : 1

HISTORY

| <u>Date of Change</u> | <u>Description</u> |
|-----------------------|---|
| 01/01/2009 | "Variable not collected this year" (outdated code) reassigned from 7 to 6. |
| 07/01/2004 | In CODES, added back in the code for "Not due this year" plus a statement that this code is no longer used. |
| 10/01/2003 | Replaced "Since the last interview in [month,year]", with "In the past year". |
| 01/01/2003 | Deleted the question identifying respondent as the person with TBI or significant other. |
| 01/01/2003 | Replaced "during the last year" with "Since the last interview in [month, year]. |
| 01/01/2003 | Deleted code "7=This variable not collected this year". |



DEFINITION

To determine what types of conditions have been diagnosed

1. Has a doctor ever told you that you had hypertension or high blood pressure?
2. Has a doctor ever told you that you had congestive heart failure?
3. Has a doctor ever told you that you had a myocardial infarction or heart attack?
4. Has a doctor ever told you that you had other heart conditions such as problems with heart valves or the rhythm of your heartbeat?
5. Has a doctor ever told you that you had a stroke?
6. Has a doctor ever told you that you had emphysema or asthma or COPD?
7. Has a doctor ever told you that you had diabetes, high blood sugar, or sugar in the urine?
8. Has a doctor ever told you that you had any cancer?
9. Has a doctor ever told you that you had liver disease (such as hepatitis)?

VARIABLES

| <u>Name</u> | <u>Description</u> | <u>Date Added</u> | <u>Date Removed</u> |
|----------------------|---|-------------------|---------------------|
| HighBPF | Hypertension/High Blood Pressure | 10/01/2012 | |
| Question: | Hypertension or high blood pressure? | | |
| | 0 Variable Did Not Exist | 10/01/2012 | |
| | 1 No | 10/01/2012 | |
| | 2 Yes | 10/01/2012 | |
| | 7 Refused | 10/01/2012 | |
| | 9 Unknown | 10/01/2012 | |
| HeartFailureF | Congestive Heart Failure | 10/01/2012 | |
| Question: | Congestive heart failure? | | |
| | 0 Variable Did Not Exist | 10/01/2012 | |
| | 1 No | 10/01/2012 | |
| | 2 Yes | 10/01/2012 | |
| | 7 Refused | 10/01/2012 | |
| | 9 Unknown | 10/01/2012 | |
| HeartAttackF | Myocardial infarction or heart attack | 10/01/2012 | |
| Question: | A myocardial infarction or heart attack? | | |
| | 0 Variable Did Not Exist | 10/01/2012 | |
| | 1 No | 10/01/2012 | |
| | 2 Yes | 10/01/2012 | |
| | 7 Refused | 10/01/2012 | |
| | 9 Unknown | 10/01/2012 | |
| HeartCondF | Other Heart Conditions | 10/01/2012 | |
| Question: | Other heart conditions such as problems with heart valves or the rhythm of your heartbeat? | | |
| | 0 Variable Did Not Exist | 10/01/2012 | |
| | 1 No | 10/01/2012 | |
| | 2 Yes | 10/01/2012 | |
| | 7 Refused | 10/01/2012 | |
| | 9 Unknown | 10/01/2012 | |
| StrokeF | Stroke | 10/01/2012 | |
| Question: | Stroke? | | |
| | 0 Variable Did Not Exist | 10/01/2012 | |
| | 1 No | 10/01/2012 | |
| | 2 Yes | 10/01/2012 | |
| | 7 Refused | 10/01/2012 | |
| | 9 Unknown | 10/01/2012 | |
| COPDF | Emphysema or asthma or COPD | 10/01/2012 | |
| Question: | Emphysema or asthma or chronic obstructive pulmonary disease (COPD)? | | |
| | 0 Variable Did Not Exist | 10/01/2012 | |
| | 1 No | 10/01/2012 | |



| | | |
|---|---------|------------|
| 2 | Yes | 10/01/2012 |
| 7 | Refused | 10/01/2012 |
| 9 | Unknown | 10/01/2012 |

| | | |
|------------------|--|-------------------|
| DiabetesF | Diabetes, High Blood Sugar/Sugar in the Urine | 10/01/2012 |
|------------------|--|-------------------|

| | | |
|------------------|--|------------|
| Question: | Diabetes, high blood sugar or sugar in the urine? | |
| 0 | Variable Did Not Exist | 10/01/2012 |
| 1 | No | 10/01/2012 |
| 2 | Yes | 10/01/2012 |
| 7 | Refused | 10/01/2012 |
| 9 | Unknown | 10/01/2012 |

| | | |
|----------------|---------------|-------------------|
| CancerF | Cancer | 10/01/2012 |
|----------------|---------------|-------------------|

| | | |
|------------------|------------------------|------------|
| Question: | Cancer? | |
| 0 | Variable Did Not Exist | 10/01/2012 |
| 1 | No | 10/01/2012 |
| 2 | Yes | 10/01/2012 |
| 7 | Refused | 10/01/2012 |
| 9 | Unknown | 10/01/2012 |

| | | |
|----------------------|----------------------|-------------------|
| LiverDiseaseF | Liver Disease | 10/01/2012 |
|----------------------|----------------------|-------------------|

| | | |
|------------------|---|------------|
| Question: | Liver disease (such as hepatitis)? | |
| 0 | Variable Did Not Exist | 10/01/2012 |
| 1 | No | 10/01/2012 |
| 2 | Yes | 10/01/2012 |
| 7 | Refused | 10/01/2012 |
| 9 | Unknown | 10/01/2012 |

NOTE

This measure can be collected from best source available during the Form II interview for all participants.

HISTORY

| <u>Date of Change</u> | <u>Description</u> |
|-----------------------|--------------------|
| 10/01/2012 | Added to Database |

SOURCE

**SOURCE**

For items 1-8:

Medicare survey questions #20, 22-26, 32, 33

Medicare Survey: SAMPLING METHODOLOGY

2009 Cohort 12 Baseline Sampling

CMS identified beneficiaries who were eligible for sampling as follows:

- MAOs with fewer than 500 members were not required to report HOS.
- For MAOs with 500 to 1,200 members, all eligible members were included in the sample.
- For MAOs with more than 1,200 members and less than 3,000 members, a simple random sample of 1,200 members was selected for the baseline survey.
- For MAOs with 3,000 or more members, members who responded to the 2008 Cohort 11 Baseline survey were excluded from the 2009 Cohort 12 Baseline sample.
- Members were defined as eligible if they did not have End Stage Renal Disease (ESRD). The six months enrollment requirement was waived beginning in 2009.

For a more detailed discussion on sampling, data collection and submission please refer to the HEDIS 2009 Volume 6 manual¹ and the Medicare HOS website at www.hosonline.org.

National Committee for Quality Assurance. HEDIS® 2009, Volume 6: Specifications for the Medicare Health Outcomes Survey. Washington, DC: NCQA Publication, 2009. Not sure how to access the comparative data; there is an application to use the data, to use the full survey or parts of the survey.

National Health and Nutrition Examination Survey (NHANES)

The NHANES interview includes demographic, socioeconomic, dietary, and health-related questions. The examination component consists of medical, dental, and physiological measurements, as well as laboratory tests administered by highly trained medical personnel.

Findings from this survey will be used to determine the prevalence of major diseases and risk factors for diseases. Information will be used to assess nutritional status and its association with health promotion and disease prevention. NHANES findings are also the basis for national standards for such measurements as height, weight, and blood pressure. Data from this survey will be used in epidemiological studies and health sciences research, which help develop sound public health policy, direct and design health programs and services, and expand the health knowledge for the Nation.

Datasource/Methods: Personal interviews, physical exams, lab tests, nutritional assessment, DNA repository

Targeted sample size: 5,000 people/year, all ages. Oversample 60+, blacks & Hispanics

Data: Data is available for 1999-2008; the most recent data set available is 2007-2008

NHIS**National Health Interview Survey (NHIS)**

The National Health Interview Survey (NHIS) has monitored the health of the nation since 1957. NHIS data on a broad range of health topics are collected through personal household interviews. For over 50 years, the U.S. Census Bureau has been the data collection agent for the National Health Interview Survey. Survey results have been instrumental in providing data to track health status, health care access, and progress toward achieving national health objectives.



DEFINITION

General Current Health - What is your general health status
Physical Health over past year - Rating of physical health now compared to one year ago
Physical Illness and Injury - Over past 30 days how many days has your physical health been not good
Emotional Problems - Compared to a year ago how would you rate emotional problems in general now

- 1) In general, would you say your health is: excellent, very good, good, fair, poor?
2) Compared to one year ago, how would you rate your physical health in general now?
3) Thinking about your physical health, which includes physical illness and injury, for how many days during the past 30 days was your physical health not good?
4) Compared to one year ago, how would you rate your emotional problems in general, now (such as feeling anxious, depressed, irritable)?

VARIABLES

Table with columns: Name, Description, Date Added, Date Removed. Rows include GenHlth, PhysHlth, PhysHlthDays, and EmotProb with their respective questions and response options.

NOTE



Form: 2

GENERAL HEALTH

Last updated: 04/01/2013

Variable GNHLTH

These questions are self-reported measures collected during the Form II interview for all participants.

The GNHLTH questions should not be administered to a significant other, or any other proxy. If the individual is unable to provide data, use code "10. Not Applicable: No data from person with TBI."

HISTORY

| <u>Date of Change</u> | <u>Description</u> |
|-----------------------|--|
| 04/01/2013 | Added NOTE : The GNHLTH questions should not be administered to a significant other, or any other proxy. If the individual is unable to provide data, use code "10. Not Applicable: No data from person with TBI." |
| 10/01/2012 | Added to Database |

SOURCE

Question 1: Medicare Survey Question #1; NHANES question

Question 2: Medicare Survey Question #8; NHANES; NHIS

Question 3: Medicare Survey Question #11; CDC question with state comparative data for over 65; NHANES question

Question 4: Medicare Survey Question #9



DEFINITION

How tall are you without shoes?

How much do you weight without shoes?

VARIABLES

| <u>Name</u> | <u>Description</u> | <u>Date Added</u> | <u>Date Removed</u> |
|------------------|---|-------------------|---------------------|
| HeightF | Height in Inches | 10/01/2012 | |
| Question: | How tall are you without shoes? (in Inches) | | |
| | 888 Variable Did Not Exist | 10/01/2012 | |
| | 999 Unknown | 10/01/2012 | |
| WeightF | Weight in Pounds | 10/01/2012 | |
| Question: | How much do you weigh without shoes? (in Pounds) | | |
| | 888 Variable Did Not Exist | 10/01/2012 | |
| | 999 Unknown | 10/01/2012 | |

NOTE

Round up if half inches or pounds are reported.

HISTORY

| <u>Date of Change</u> | <u>Description</u> |
|-----------------------|--------------------|
| 10/01/2012 | Added to Database |

SOURCE

CDC – BMI obesity rate by state; M #53, #54

CDC Survey: The State of Aging and Health in America report assesses the health status and health behaviors of U.S. adults aged 65 years and older and makes recommendations to improve the mental and physical health of all Americans in their later years. The report includes national- and state-based report cards that examine 15 key indicators of older adult health. Data is available for 2003-2004 and 2006-2007.

NHIS

National Health Interview Survey (NHIS)

The National Health Interview Survey (NHIS) has monitored the health of the nation since 1957. NHIS data on a broad range of health topics are collected through personal household interviews. For over 50 years, the U.S. Census Bureau has been the data collection agent for the National Health Interview Survey. Survey results have been instrumental in providing data to track health status, health care access, and progress toward achieving national health objectives.



DEFINITION

Do you now smoke cigarettes every day, some days or not at all?
Do you currently use chewing tobacco, snuff, or snus every day, some days, or not at all?

VARIABLES

| Name | Description | Date Added | Date Removed |
|------------------|--|-------------------|--------------|
| SmkCigF | Smoke Cigarettes | 10/01/2012 | |
| Question: | Do you currently smoke cigarettes every day, some days, or not at all? | | |
| | 0 Variable Did Not Exist | 10/01/2012 | |
| | 1 Not At All | 10/01/2012 | |
| | 2 Some Days | 10/01/2012 | |
| | 3 Everyday | 10/01/2012 | |
| | 7 Refused | 10/01/2012 | |
| | 9 Unknown | 10/01/2012 | |
| ChwTobF | Chew Tobacco | 10/01/2012 | |
| Question: | Do you currently use chewing tobacco, snuff, or snus everyday, somedays, or not at all? | | |
| | 0 Variable Did Not Exist | 10/01/2012 | |
| | 1 Not At All | 10/01/2012 | |
| | 2 Some Days | 10/01/2012 | |
| | 3 Everyday | 10/01/2012 | |
| | 7 Refused | 10/01/2012 | |
| | 9 Unknown | 10/01/2012 | |

NOTE

These measures can be collected from best source available during the Form II interview for all participants.

Snus ([snu:s]) is a type of tobacco snuff consumed in the form of a moist powder which is placed under the upper lip, without chewing, for extended periods of time.

HISTORY

| Date of Change | Description |
|----------------|--|
| 04/01/2013 | Changed CODES : 1=Not at All; 3=Everyday |
| 10/01/2012 | Added to Database |

SOURCE

Cigarette Smoking
BRFSS 7.2 – national and state norms

Other Tobacco Use
BRFSS 7.5 – national and state norms



DEFINITION

The intent of the question is to capture problematic use of drugs other than alcohol. Illegal or harmful use of substances is considered problematic use. The use of street drugs and drugs prescribed to someone else constitutes illegal use. "Huffing" or the inhalation of a toxic chemical is considered problematic due to the harmful effects (it is also illegal in 46 states). In addition, the overuse of drugs prescribed to the participant is considered problematic use.

"During the last 12 months, did you use any illicit or non-prescription drugs?"

VARIABLES

| Name | Description | Date Added | Date Removed |
|-----------|--|------------|--------------|
| DrugsF | Use of Illicit/Non-Prescription Drugs | 01/01/1900 | |
| Question: | During the last 12 months did you use any illicit or non-prescription drugs? | | |
| 1 | No | 01/01/1900 | |
| 2 | Yes | 01/01/1900 | |
| 6 | Variable Did Not Exist ([Do Not Use]) | 01/01/1900 | |
| 7 | Refused | 01/01/2009 | |
| 9 | Unknown | 01/01/1900 | |

NOTE

A report on substance use that is based on TBIMS data can be found on COMBI: See External Links

The question should be presented as follows: "During the last 12 months, did you use any illicit or non-prescription drugs?" If further clarification is sought, the following verbiage may be offered: "We are wanting to know about drugs like marijuana, crack or heroin; or about prescription drugs like pain killers or stimulants that were not prescribed to you; or chemicals you might have inhaled or 'huffed'. We also want to know if sometimes you took more than you should have of any drugs that have been prescribed to you."

EXAMPLE

Person with brain injury used marijuana in past year. Code:

DrugsF : 2

HISTORY

| Date of Change | Description |
|----------------|--|
| 10/01/2011 | Changed DEFINITION, and added NOTE about the use of clarifying language. For previous definition, see CHARACTERISTICS OF DATA. |
| 01/01/2009 | Added CODE : 7 = Refused. |
| 01/01/2009 | "Variable not collected this year" (outdated code) reassigned from 7 to 6. |
| 01/01/2006 | Added definition of "non-prescription" drugs. |
| 07/01/2004 | In CODES, added back in code for "Not due this year", plus a statement that the code is no longer used. |
| 07/01/2004 | Removed references to "annual" follow-up. |
| 01/01/2003 | Deleted (questions about specific drugs used). |
| 01/01/2003 | Deleted code "7=This variable not due this year" |
| 01/01/2003 | Deleted the question that identified respondent as the person with TBI or significant other. |
| 01/01/1997 | Expanded variable, moved alcohol questions to separate variable. |



DEFINITION

- 1) During the past month, have you had at least one drink of any alcoholic beverage such as beer, wine, wine coolers, or liquor?
- 2) During the past month, how many days per week or per month did you drink any alcoholic beverages, on the average?
- 3) A drink is 1 can or bottle of beer, 1 glass of wine, 1 can or bottle of wine cooler, 1 cocktail, or 1 shot of liquor. On the days when you drank, about how many drinks did you drink on the average?
- 4) Considering all types of alcoholic beverages, how many times during the past month did you have five or more drinks on an occasion?

A "drink" is 1 can or bottle of beer, 1 glass of wine, 1 can or bottle of wine cooler, 1 cocktail, or 1 shot of liquor. See External Links

VARIABLES

| <u>Name</u> | <u>Description</u> | <u>Date Added</u> | <u>Date Removed</u> |
|---------------------|--|-------------------|---------------------|
| ALCAnyDrinkF | At Least One Alcoholic Drink | 01/01/1900 | |
| Question: | During the past month have you had at least one drink of any alcoholic beverage such as beer, wine, wine coolers, or liquor? | | |
| 1 | No | 01/01/1900 | |
| 2 | Yes | 01/01/1900 | |
| 5 | Not Applicable: Variable not due this year (Code no longer used; data now collected in all follow-up years) | 01/01/1900 | |
| 7 | Refused | 01/01/1900 | |
| 8 | Variable Did Not Exist | 01/01/1900 | |
| 9 | Unknown | 01/01/1900 | |
| ALCWeekF | Alcohol Use: Days per Week | 01/01/1900 | |
| Question: | Days Per Week: | | |
| 55 | Not Applicable: Variable not due this year (Code no longer used; data now collected in all follow-up years) | 01/01/1900 | |
| 66 | Not Applicable | 01/01/1900 | |
| 77 | Refused | 01/01/1900 | |
| 88 | Variable Did Not Exist | 01/01/1900 | |
| 99 | Unknown | 01/01/1900 | |
| ALCMonthF | Alcohol Use: Days per Month | 01/01/1900 | |
| Question: | Days Per Month: | | |
| 55 | Not Applicable: Variable not due this year (Code no longer used; data now collected in all follow-up years) | 01/01/1900 | |
| 66 | Not Applicable | 01/01/1900 | |
| 77 | Refused | 01/01/1900 | |
| 88 | Variable Did Not Exist | 01/01/1900 | |
| 99 | Unknown | 01/01/1900 | |
| ALCDrinksF | Average Number of Alcoholic Drinks | 01/01/1900 | |
| Question: | A drink is 1 can or bottle of beer, 1 glass of wine, 1 can or bottle of wine cooler, 1 cocktail, or 1 shot of liquor. On the days when you drank, about how many drinks did you drink on average? | | |
| 55 | Not Applicable: Variable not due this year (Code no longer used; data now collected in all follow-up years) | 01/01/1900 | |
| 66 | Not Applicable | 01/01/1900 | |
| 77 | Refused | 01/01/1900 | |
| 88 | Variable Did Not Exist | 01/01/1900 | |
| 99 | Unknown | 01/01/1900 | |
| ALC5DrinksF | Five or More Drinks | 01/01/1900 | |
| Question: | Considering all types of alcoholic beverages, how many times during the past month did you have five or more drinks on an occasion? | | |
| 00 | None | 01/01/1900 | |
| 55 | Not Applicable: Variable not due this year (Code no longer used; data now collected in all follow-up years) | 01/01/1900 | |



| | | |
|----|------------------------|------------|
| 66 | Not Applicable | 01/01/1900 |
| 77 | Refused | 01/01/1900 |
| 88 | Variable Did Not Exist | 01/01/1900 |
| 99 | Unknown | 01/01/1900 |

CODE

For ALCAnyDrink:

If coded "1. No", ALCWeek through ALC5Drinks will be autofilled with "66. Not Applicable."

If coded "7. Refused", ALCWeek through ALC5Drinks will be autofilled with "77. Refused."

If coded "8. Variable Did Not Exist", ALCWeek through ALC5Drinks will be autofilled with "88. Variable Did Not Exist."

If coded "9. Unknown/Don't Know/not Sure", ALCWeek through ALC5Drinks will be autofilled with "99. Unknown/Don't Know/Not Sure."

ALCWeek/ALCMonth

Enter number of days per week OR per month. Code item not answered as "66. Not Applicable" only if ALCAnyDrink is coded "1. No."

ALCDrinks

Enter number of drinks. Code item not answered as "66. Not Applicable" only if ALCAnyDrink is coded "1. No."

ALC5Drinks

Enter number of times had 5 or more drinks. Code item not answered as "66. Not Applicable" only if ALCAnyDrink is coded "1. No."

NOTE

Base the data recorded for these questions on self-response. Do not be influenced by information about drinking habits that may be available from hospital records, etc.

If cannot get patient's response, get family, if not family then medical chart.

Code the higher score if a range is given.

Probe for size of drink and adjust scoring according to answer received.

A report on substance use that is based on TBIMS data can be found on COMBI: See External Links

EXAMPLE

During the past month, person with brain injury had a single glass of wine with dinner every night, but never consumed more than that amount.

Code:

- ALCAnyDrinkF : 2
- ALCAnyWeekF : 66
- ALCAnyMonthF : 30
- ALCAnyDrinksF : 1
- ALCAny5DrinksF : 00

HISTORY

| <u>Date of Change</u> | <u>Description</u> |
|-----------------------|--|
| 09/05/2006 | Added to CHARACTERISTICS OF DATA an explanation that because items 2-4 are coded NA if item 1 is "no", that means for any of 2-4 are based on data only from persons who drink. |
| 04/01/2005 | Capitalized the text in CHARACTERISTICS OF DATA entry about reversal of "7" and "9" codes. |
| 01/01/2005 | Deleted NOTE that data entry screens are programmed so pull-down menu items 7 and 9 (switched starting with V9.5) now adjust for forms 9.4 and earlier and for form 9.5 and later. |
| 01/01/2005 | Added to CHARACTERISTICS OF DATA that "7" and "9" codes on data collection forms 9.4 and earlier are reversed, and that this should be taken into account when working with 9.4 and earlier forms. |
| 01/01/2005 | Added NOTE : that variable is to be collected from participant if possible, or family, or medical chart. |
| 10/01/2004 | Added NOTE : that data entry screens are programmed so pull-down menu items 7 and 9 (switched starting with V9.5) now adjust for forms 9.4 and earlier and for form 9.5 and later. Data from all forms can now be entered AS IS. (This change was made in the database last quarter (9.6) but too late to add to syllabus page.) |
| 07/01/2004 | In CODES, added back in the code for "Not due this year" plus statement that this code is no longer used. |
| 07/01/2004 | Corrected EXAMPLE so 2a is "66". |
| 04/01/2004 | Added NOTE : explaining why there are some cases prior to 1/1/97 that have data. |
| 04/01/2004 | Added "Unknown" to code "Don't know/Not sure" |



| | |
|------------|--|
| 04/01/2004 | Reversed the codes for "Refused" (was 9, now 7) and "Unknown/Don't know/Not sure" (was 7, now 9) |
| 04/01/2004 | Added NOTE : that a report on alcohol use based on TBIMS data is on COMBI. |
| 01/01/2004 | Added coding instruction for item 2 that 66 should be scored for the item not answered. |
| 01/01/2004 | Added NOTE : to code the higher score if a range is given. |
| 01/01/2004 | Added NOTE : to probe for size of drink and adjust scoring according to answer received. |
| 10/01/2003 | Added NOTE : that scores for these questions should be based on self-reports and should not be influenced by information available clinically in the Model System. |
| 01/01/2003 | Deleted the question that identifies respondent as the person with TBI or significant other. |
| 01/01/2003 | Removed references to this variable as being asked of the person with TBI. |
| 01/01/2003 | Deleted codes for "This variable not due this year". |
| 04/01/2002 | In CODES, corrected auto fills so will occur when #1 = 1, 5, 7, 8, or 9. Revised format of auto fill information. |
| 01/01/2001 | Added/revised coding instructions. |
| 10/01/1999 | Dropped QFVI, replaced with alcohol questions from NHSDA and BRFSS module 13. |
| 01/01/1997 | Moved drug question to separate variable. |
| 04/01/1996 | Added CODE : for additional CIQ questions not due this year. |
| 08/12/1994 | Added NOTE : for coding someone who does not drink at all. |
| 03/21/1991 | QFVI added to Form II. |

SOURCE

Centers for Disease Control and Prevention. Behavioral Risk Factor Surveillance System User's Guide. Atlanta: U.S. Department of Health and Human Services, 1998. National Household Survey on Drug Abuse. Substance Abuse and Mental Health Services Administration, Office of Applied Studies.



Form: 2

ARRESTS

Last updated:

Variable ARRESTS

DEFINITION

Determine if the person with brain injury has been arrested during the past year.

VARIABLES

| <u>Name</u> | <u>Description</u> | <u>Date Added</u> | <u>Date Removed</u> |
|-------------|---|-------------------|---------------------|
| Arrests | Arrested in Past Year | 01/01/1900 | |
| Question: | In the past year, have you been arrested? | | |
| 1 | No | 01/01/1900 | |
| 2 | Yes | 01/01/1900 | |
| 6 | Not Applicable: Variable not due this year (Code no longer used; data now collected in all follow-up years) | 01/01/1900 | |
| 7 | Refused | 01/01/2009 | |
| 9 | Unknown | 01/01/1900 | |

NOTE

If person is arrested post-injury for a crime allegedly committed pre-injury, code as "1. No."

EXAMPLE

Person with brain injury reports he/she was arrested and charged for breaking and entering. Code:

Arrests : 2

HISTORY

| <u>Date of Change</u> | <u>Description</u> |
|-----------------------|--------------------|
|-----------------------|--------------------|

QUESTIONS

QUESTION: In coding 292e we noticed that the note about coding this as a pre-injury arrest is no longer accurate now that 192e has been deleted.

ANSWER: This will be corrected in next quarter's syllabus. [Change made 4/1/04.]



DEFINITION

The Patient Health Questionnaire contains a brief, 9-item, patient self-report depression assessment.

- a. Little Interest or pleasure in doing things
- b. Feeling down, depressed, or hopeless
- c. Trouble falling or staying asleep, or sleeping too much
- d. Feeling tired or having little energy
- e. Poor appetite or overeating
- f. Feeling bad about yourself – or that you are a failure or have let yourself or your family down
- g. Trouble concentrating on things, such as reading the newspaper or watching television
- h. Moving or speaking so slowly that other people could have noticed. Or the opposite - being so fidgety or restless that you have been moving around a lot more than usual
- i. Thoughts that you would be better off dead, or of hurting yourself in some way
- j. If you indicated any problems in the previous questions, how difficult have these problems made it for you to do your work, take care of things at home, or get along with other people

VARIABLES

| Name | Description | Date Added | Date Removed |
|--------------------|--|-------------------|--------------|
| PHQPleasure | Little Interest/Pleasure in Doing Things | 10/01/2007 | |
| Question: | a. Little interest or pleasure in doing things: | | |
| | 0 Not at All | 10/01/2007 | |
| | 1 Several Days | 10/01/2007 | |
| | 2 More Than Half of the Days | 10/01/2007 | |
| | 3 Nearly Every Day | 10/01/2007 | |
| | 6 Variable Did Not Exist | 10/01/2007 | |
| | 9 Unknown | 10/01/2007 | |
| | 10 Not Applicable: No data from person with TBI | 10/01/2007 | |
| PHQDown | Feeling Down/Depressed/Hopeless | 10/01/2007 | |
| Question: | b. Feeling down, depressed, or hopeless: | | |
| | 0 Not at All | 10/01/2007 | |
| | 1 Several Days | 10/01/2007 | |
| | 2 More Than Half of the Days | 10/01/2007 | |
| | 3 Nearly Every Day | 10/01/2007 | |
| | 6 Variable Did Not Exist | 10/01/2007 | |
| | 9 Unknown | 10/01/2007 | |
| | 10 Not Applicable: No data from person with TBI | 10/01/2007 | |
| PHQSleep | Trouble Falling/Staying Asleep/Sleeping Too Much | 10/01/2007 | |
| Question: | c. Trouble falling or staying asleep, or sleeping too much: | | |
| | 0 Not at All | 10/01/2007 | |
| | 1 Several Days | 10/01/2007 | |
| | 2 More Than Half of the Days | 10/01/2007 | |
| | 3 Nearly Every Day | 10/01/2007 | |
| | 6 Variable Did Not Exist | 10/01/2007 | |
| | 9 Unknown | 10/01/2007 | |
| | 10 Not Applicable: No data from person with TBI | 10/01/2007 | |
| PHQTired | Feeling Tired/Having Little Energy | 10/01/2007 | |
| Question: | d. Feeling tired or having little energy: | | |
| | 0 Not at All | 10/01/2007 | |
| | 1 Several Days | 10/01/2007 | |
| | 2 More Than Half of the Days | 10/01/2007 | |
| | 3 Nearly Every Day | 10/01/2007 | |
| | 6 Variable Did Not Exist | 10/01/2007 | |
| | 9 Unknown | 10/01/2007 | |
| | 10 Not Applicable: No data from Person with TBI | 10/01/2007 | |
| PHQEat | Poor Appetite/Overeating | 10/01/2007 | |



| | | |
|------------------|---|------------|
| Question: | e. Poor appetite or overeating: | |
| | 0 Not at All | 10/01/2007 |
| | 1 Several Days | 10/01/2007 |
| | 2 More Than Half of the Days | 10/01/2007 |
| | 3 Nearly Every Day | 10/01/2007 |
| | 6 Variable Did Not Exist | 10/01/2007 |
| | 9 Unknown | 10/01/2007 |
| | 10 Not Applicable: No data from person with TBI | 10/01/2007 |

| | | |
|---------------|-----------------------------------|-------------------|
| PHQBad | Feeling Bad About Yourself | 10/01/2007 |
|---------------|-----------------------------------|-------------------|

| | | |
|------------------|--|------------|
| Question: | f. Feeling bad about yourself or that you are a failure or have let yourself or your family down: | |
| | 0 Not at All | 10/01/2007 |
| | 1 Several Days | 10/01/2007 |
| | 2 More Than Half of The Days | 10/01/2007 |
| | 3 Nearly Every Day | 10/01/2007 |
| | 6 Variable Did Not Exist | 10/01/2007 |
| | 9 Unknown | 10/01/2007 |
| | 10 Not Applicable: No data from person with TBI | 10/01/2007 |

| | | |
|-----------------------|--|-------------------|
| PHQConcentrate | Trouble Concentrating on Things | 10/01/2007 |
|-----------------------|--|-------------------|

| | | |
|------------------|--|------------|
| Question: | g. Trouble concentrating on things, such as reading the newspaper or watching television: | |
| | 0 Not at All | 10/01/2007 |
| | 1 Several Days | 10/01/2007 |
| | 2 More Than Half of the Days | 10/01/2007 |
| | 3 Nearly Every Day | 10/01/2007 |
| | 6 Variable Did Not Exist | 10/01/2007 |
| | 9 Unknown | 10/01/2007 |
| | 10 Not Applicable: No data from person with TBI | 10/01/2007 |

| | | |
|----------------|----------------------------------|-------------------|
| PHQSlow | Moving/Speaking So Slowly | 10/01/2007 |
|----------------|----------------------------------|-------------------|

| | | |
|------------------|---|------------|
| Question: | h. Moving or speaking so slowly that other people could have noticed. Or the opposite - being so fidgety or restless that you have been moving around a lot more than usual: | |
| | 0 Not at All | 10/01/2007 |
| | 1 Several Days | 10/01/2007 |
| | 2 More Than Half of the Days | 10/01/2007 |
| | 3 Nearly Every Day | 10/01/2007 |
| | 6 Variable Did Not Exist | 10/01/2007 |
| | 9 Unknown | 10/01/2007 |
| | 10 Not Applicable: No data from person with TBI | 10/01/2007 |

| | | |
|----------------|---|-------------------|
| PHQDead | Thoughts that You Would be Better off Dead | 10/01/2007 |
|----------------|---|-------------------|

| | | |
|------------------|---|------------|
| Question: | i. Thoughts that you would be better off dead or hurting yourself in some way: | |
| | 0 Not at All | 10/01/2007 |
| | 1 Several Days | 10/01/2007 |
| | 2 More Than Half of the Days | 10/01/2007 |
| | 3 Nearly Every Day | 10/01/2007 |
| | 6 Variable Did Not Exist | 10/01/2007 |
| | 9 Unknown | 10/01/2007 |
| | 10 Not Applicable: No data from person with TBI | 10/01/2007 |

| | | |
|---------------------|--|-------------------|
| PHQDifficult | Problems Made it Difficult (PHQ9) | 10/01/2007 |
|---------------------|--|-------------------|

| | | |
|------------------|---|------------|
| Question: | j. How difficult have these problems made it for you to do your work, take care of things at home, or get along with other people? | |
| | 0 Not Difficult at All | 10/01/2007 |
| | 1 Somewhat Difficult | 10/01/2007 |
| | 2 Very Difficult | 10/01/2007 |
| | 3 Extremely Difficult | 10/01/2007 |
| | 6 Variable Did Not Exist | 10/01/2007 |



Form: 2

PATIENT HEALTH QUESTIONNAIRE (PHQ-9)

Last updated: 10/01/2009

Variable PHQ

| | | |
|----|--|------------|
| 8 | Not Applicable: No problems | 10/01/2007 |
| 9 | Unknown | 10/01/2007 |
| 10 | Not Applicable: No data from person with TBI | 10/01/2007 |

NOTE

Interviewers should read the following introduction prior to administering the PHQ-9: "Over the LAST 2 WEEKS, how often have you been bothered by any of the following problems..."

The PHQ-9 should not be administered to a significant other, or any other proxy. If the individual is unable to provide data, use code "10. Not Applicable: No data from person with TBI."

Every effort should be made to obtain the PHQ-9 assessments, however, if any items can not be assessed, use code "9. Unknown." Do not leave blanks.

Total PHQ-9 score is calculated using a computer program.

HISTORY

| <u>Date of Change</u> | <u>Description</u> |
|-----------------------|---|
| 10/01/2009 | Added NOTES pertaining to administration of PHQ-9 |
| 10/01/2007 | Variable added to database |

SOURCE

<http://www.pfizer.com/pfizer/download/do/phq-9.pdf>

**DEFINITION**

The Generalized Anxiety Disorder Scale is a 7-item scale validated as a screener for anxiety disorder.

- a. Feeling nervous, anxious or on edge
- b. Not being able to stop or control worrying
- c. Worrying too much about different things
- d. Trouble relaxing
- e. Being so restless that it is hard to sit still
- f. Becoming easily annoyed or irritable
- g. Feeling afraid as if something awful might happen
- h. If you indicated any problems in the previous questions, how difficult have these problems made it for you to do your work, take care of things at home, or get along with other people

VARIABLES

| <u>Name</u> | <u>Description</u> | <u>Date Added</u> | <u>Date Removed</u> |
|--------------------|---|-------------------|---------------------|
| GADNervous | Feeling Nervous, Anxious or on Edge | 04/01/2010 | |
| Question: | a. Feeling nervous, anxious or on edge: | | |
| | 0 Not at All | 10/01/2007 | |
| | 1 Several Days | 10/01/2007 | |
| | 2 More Than Half of the Days | 10/01/2007 | |
| | 3 Nearly Every Day | 10/01/2007 | |
| | 6 Variable Did Not Exist | 10/01/2007 | |
| | 9 Unknown | 10/01/2007 | |
| | 10 Not Applicable: No data from person with TBI | 10/01/2007 | |
| GADCtrlWry | Not Being Able to Stop or Control Worrying | 04/01/2010 | |
| Question: | b. Not being able to stop or control worrying: | | |
| | 0 Not at All | 10/01/2007 | |
| | 1 Several Days | 10/01/2007 | |
| | 2 More Than Half of the Days | 10/01/2007 | |
| | 3 Nearly Every Day | 10/01/2007 | |
| | 6 Variable Did Not Exist | 10/01/2007 | |
| | 9 Unknown | 10/01/2007 | |
| | 10 Not Applicable: No data from person with TBI | 10/01/2007 | |
| GADWorry | Worrying Too Much About Different Things | 04/01/2010 | |
| Question: | c. Worrying too much about different things: | | |
| | 0 Not at All | 10/01/2007 | |
| | 1 Several Days | 10/01/2007 | |
| | 2 More Than Half of the Days | 10/01/2007 | |
| | 3 Nearly Every Day | 10/01/2007 | |
| | 6 Variable Did Not Exist | 10/01/2007 | |
| | 9 Unknown | 10/01/2007 | |
| | 10 Not Applicable: No data from person with TBI | 10/01/2007 | |
| GADRelax | Trouble Relaxing | 04/01/2010 | |
| Question: | d. Trouble relaxing: | | |
| | 0 Not at All | 10/01/2007 | |
| | 1 Several Days | 10/01/2007 | |
| | 2 More Than Half of the Days | 10/01/2007 | |
| | 3 Nearly Every Day | 10/01/2007 | |
| | 6 Variable Did Not Exist | 10/01/2007 | |
| | 9 Unknown | 10/01/2007 | |
| | 10 Not Applicable: No data from person with TBI | 10/01/2007 | |
| GADRestless | Being Restless that it is Hard to Sit Still | 04/01/2010 | |
| Question: | e. Being so restless that it is hard to sit still: | | |
| | 0 Not at All | 10/01/2007 | |
| | 1 Several Days | 10/01/2007 | |



Form: 2

GENERALIZED ANXIETY DISORDER SCALE (GAD-7)

Last updated: 07/01/2011

Variable GAD

| | | |
|----|--|------------|
| 2 | More Than Half of the Days | 10/01/2007 |
| 3 | Nearly Every Day | 10/01/2007 |
| 6 | Variable Did Not Exist | 10/01/2007 |
| 9 | Unknown | 10/01/2007 |
| 10 | Not Applicable: No data from person with TBI | 10/01/2007 |

GADAnnoy Becoming Easily Annoyed or Irritable 04/01/2010

Question: f. Becoming easily annoyed or irritable:

| | | |
|----|--|------------|
| 0 | Not at All | 10/01/2007 |
| 1 | Several Days | 10/01/2007 |
| 2 | More Than Half of the Days | 10/01/2007 |
| 3 | Nearly Every Day | 10/01/2007 |
| 6 | Variable Did Not Exist | 10/01/2007 |
| 9 | Unknown | 10/01/2007 |
| 10 | Not Applicable: No data from person with TBI | 10/01/2007 |

GADAfraid Feeling Afraid Something Awful Might Happen 04/01/2010

Question: g. Feeling afraid as if something awful might happen:

| | | |
|----|--|------------|
| 0 | Not at All | 10/01/2007 |
| 1 | Several Days | 10/01/2007 |
| 2 | More Than Half of the Days | 10/01/2007 |
| 3 | Nearly Every Day | 10/01/2007 |
| 6 | Variable Did Not Exist | 10/01/2007 |
| 9 | Unknown | 10/01/2007 |
| 10 | Not Applicable: No data from person with TBI | 10/01/2007 |

GADDifficult Problems Made it Difficult (GAD7) at home, or get along with other people 04/01/2010

Question: h. How difficult have these problems made it for you to do your work, take care of things at home, or get along with other people?

| | | |
|----|--|------------|
| 0 | Not Difficult at All | 10/01/2007 |
| 1 | Somewhat Difficult | 10/01/2007 |
| 2 | Very Difficult | 10/01/2007 |
| 3 | Extremely Difficult | 10/01/2007 |
| 6 | Variable Did Not Exist | 10/01/2007 |
| 8 | Not Applicable: No problems | 10/01/2007 |
| 9 | Unknown | 10/01/2007 |
| 10 | Not Applicable: No data from person with TBI | 10/01/2007 |

NOTE

Interviewers should read the following introduction prior to administering the GAD-7: "Over the LAST 2 WEEKS, how often have you been bothered by any of the following problems..."

The GAD-7 should not be administered to a significant other, or any other proxy. If the individual is unable to provide data, use code "10. Not Applicable: No data from person with TBI."

Every effort should be made to obtain the GAD-7 assessments, however, if any items can not be assessed, use code "9. Unknown." Do not leave blanks.

Total GAD-7 score is calculated using a computer program.

HISTORY

| <u>Date of Change</u> | <u>Description</u> |
|-----------------------|----------------------------------|
| 07/01/2011 | Variable(s) added to VA database |
| 04/01/2010 | Variable(s) added to database |



Form: 2

SUICIDE

Last updated:

Variable SUICIDE

VARIABLES

| <u>Name</u> | <u>Description</u> | <u>Date Added</u> | <u>Date Removed</u> |
|-------------|---|-------------------|---------------------|
| SuicideF | Attempted Suicide: Past Year | 01/01/1997 | |
| Question: | In the past year, have you attempted suicide? | | |
| | 0 Variable Did Not Exist | 01/01/1900 | |
| | 1 No | 01/01/1900 | |
| | 2 Yes | 01/01/1900 | |
| | 6 Not Applicable: Variable not due this year (Code no longer used; data now collected in all follow-up years) | 01/01/1900 | |
| | 7 Refused | 01/01/2009 | |
| | 9 Unknown | 01/01/1900 | |

HISTORY

| <u>Date of Change</u> | <u>Description</u> |
|-----------------------|--------------------|
|-----------------------|--------------------|



DEFINITION

The Supervision Rating Scale is used to rate the amount of supervision that the person with brain injury actually receives by choosing one of the thirteen categories below. This rating is determined by the interviewer with information from the person with TBI and/or others at the time of the follow-up evaluation. "Supervision" means that someone is responsible for being with the person with brain injury. For more information, see External Links.

A copy of the SRS Structured Interview Form and Guide are available in External Links

VARIABLES

Table with columns: Name, Description, Date Added, Date Removed. Contains SRS Supervision Rating Scale details and 13 numbered categories of supervision levels.

EXAMPLE

The patient is supervised overnight and during the day, however his spouse works full-time outside the home during the day. Code:

SRS : 05

HISTORY

Table with columns: Date of Change, Description. Lists updates to the SRS form and guide from 2004 to 2008.



| | |
|------------|---|
| 07/01/2001 | Corrected errors that were implemented on 7/1/00 in the Form II, as follows: the heading "Overnight supervision" replaces "Independent at night"; for code 03 the label "Supervised only at night" replaces "Usually supervised during day"; for code |
| 09/01/1998 | Dropped code "77=not due", added code "00=variable did not exist". |
| 04/01/1998 | Variable added to database. |

SOURCE

Boake, C. Supervision Rating Scale: A measure of functional outcome from brain injury. Archives of Physical Medicine and Rehabilitation. 1996;77(8):765-772. For an abstract, see External Links

QUESTIONS

QUESTION: If the subject is married but the spouse is clearly not supervising, should the subject be coded "1=Alone, Independent" or as "2=Unsupervised at night, sometimes during the day"? This issue was discussed at the Data Collectors Conference but not resolved.

ANSWER: Per Dr. Boake, you can give a rating of 1 if it is clear that the other adults in the home are not providing supervision. One way to tell this is if the person's comings and goings are clearly unsupervised by other adults. For example; the person with BI is working early morning or late night, and leaves home or returns home without involving the other adults; Or if the person with TBI goes on outings and returns home while other adults are asleep. Another thing that demonstrates lack of supervision is if the person with BI performs major responsibilities unsupervised by other adults who may be present e.g. the person with BI cares for sick children overnight while the spouse sleeps. Another example is if the person routinely does activities that are potentially risky (eg, operating dangerous machinery) without involving the others.

QUESTION: Is the SRS score affected if a participant needs supervision for reasons relating to something other than the TBI?

ANSWER: This is addressed in the FAQ section on the COMBI website (see external link). To paraphrase from question 7, the SRS score should reflect the actual amount of supervision the individual receives and not why the supervision is required.

QUESTION: Participant lives in trailer on parents' property (~300 feet from their house) in rural area. Technically he lives alone. His mom mentioned that they do check on him daily.

ANSWER: The person is living on the property, and the family is checking-in at least daily. If the person is being checked on once a day, code 5; if it is more frequent than every eight hours, code 6 or 7.

QUESTION: For the supervision rating scale question D and F in the rating tree ("Do you ever stay alone at home" and "Do you sometimes stay alone overnight"), is this question asking what actually happens or what level of supervision the individual actually needs? For instance, if the participant is always with her husband at night and has never stayed alone at night but it is not because of her need for supervision, should this be a yes or no?

ANSWER: The SRS is looking at how much supervision the participant actually received, whether or not they need it. So for the question "Do you sometimes stay alone overnight?", if they are never alone overnight, it is to be coded as "no", even if it's just due to the fact that they are married, and haven't had that opportunity. And the same holds true for "Do you ever stay alone at home?" – if they don't they need to be rated that way.

**DEFINITION**

The Glasgow Outcome Scale-Extended is given at the time of follow up evaluation. For information about the GOS-E, see External Links.

VARIABLES

| Name | Description | Date Added | Date Removed |
|-----------------------|---|-------------------|---------------------|
| GOSCommands | Obey Simple Commands/Say Words | 04/01/1998 | |
| Question: | Is the participant able to obey simple commands or say any words? | | |
| | 0 Variable Did Not Exist | 01/01/1900 | |
| | 1 No | 01/01/1900 | |
| | 2 Yes | 01/01/1900 | |
| | 9 Unknown | 01/01/1900 | |
| GOSAssistAll | Assistance is Essential at Home | 04/01/1998 | |
| Question: | Is the assistance of another person at home essential every day for some activities of daily living? | | |
| | 0 Variable Did Not Exist | 01/01/1900 | |
| | 1 No | 01/01/1900 | |
| | 2 Yes | 01/01/1900 | |
| | 8 Not Applicable | 01/01/1900 | |
| | 9 Unknown | 01/01/1900 | |
| GOSFrqHlp | Need Frequent Help at Home | 04/01/1998 | |
| Question: | Do you need frequent help or someone to be around at home most of the time? | | |
| | 0 Variable Did Not Exist | 01/01/1900 | |
| | 1 No | 01/01/1900 | |
| | 2 Yes | 01/01/1900 | |
| | 8 Not Applicable | 01/01/1900 | |
| | 9 Unknown | 01/01/1900 | |
| GOSAssistPrior | Assistance at Home Essential Before Injury | 04/01/1998 | |
| Question: | Was assistance at home essential before the injury? | | |
| | 0 Variable Did Not Exist | 01/01/1900 | |
| | 1 No | 01/01/1900 | |
| | 2 Yes | 01/01/1900 | |
| | 8 Not Applicable | 01/01/1900 | |
| | 9 Unknown | 01/01/1900 | |
| GOSShop | Able to Shop Without Assistance | 04/01/1998 | |
| Question: | Are you able to shop without assistance? | | |
| | 0 Variable Did Not Exist | 01/01/1900 | |
| | 1 No | 01/01/1900 | |
| | 2 Yes | 01/01/1900 | |
| | 8 Not Applicable | 01/01/1900 | |
| | 9 Unknown | 01/01/1900 | |
| GOSShopPrior | Able to Shop Without Assistance Before Injury | 04/01/1998 | |
| Question: | Were you able to shop without assistance before the injury? | | |
| | 0 Variable Did Not Exist | 01/01/1900 | |
| | 1 No | 01/01/1900 | |
| | 2 Yes | 01/01/1900 | |
| | 8 Not Applicable | 01/01/1900 | |
| | 9 Unknown | 01/01/1900 | |
| GOSTravel | Able to Travel Locally Without Assistance | 04/01/1998 | |
| Question: | Are you able to travel locally without assistance? | | |
| | 0 Variable Did Not Exist | 01/01/1900 | |
| | 1 No | 01/01/1900 | |
| | 2 Yes | 01/01/1900 | |
| | 8 Not Applicable | 01/01/1900 | |



9 Unknown 01/01/1900

GOSTravelPrior Able to Travel Without Assistance Before Injury 04/01/1998

Question: Were you able to travel without assistance before the injury?

0 Variable Did Not Exist 01/01/1900
 1 No 01/01/1900
 2 Yes 01/01/1900
 8 Not Applicable 01/01/1900
 9 Unknown 01/01/1900

GOSWork Able to Work to Previous Capacity 04/01/1998

Question: Are you currently able to work to your previous capacity?

0 Variable Did Not Exist 01/01/1900
 1 No 01/01/1900
 2 Yes 01/01/1900
 8 Not Applicable 01/01/1900
 9 Unknown 01/01/1900

GOSRestrict Restriction on Work Capacity 04/01/1998

Question: How restricted are you?

0 Variable Did Not Exist 01/01/1900
 1 Reduced Work Capacity (UMD) 01/01/1900
 2 Sheltered Workshop or Non-Competitive Job or Currently Unable to Work (LMD) 01/01/1900
 8 Not Applicable 01/01/1900
 9 Unknown 01/01/1900

GOSWorkPrior Working/Seeking Employment Before Injury 04/01/1998

Question: Were you either working or seeking employment before the injury?

0 Variable Did Not Exist 01/01/1900
 1 No 01/01/1900
 2 Yes 01/01/1900
 8 Not Applicable 01/01/1900
 9 Unknown 01/01/1900

GOSoc Able to Resume Regular Social and Leisure Activities 04/01/1998

Question: Are you able to resume regular social and leisure activities outside home?

0 Variable Did Not Exist 01/01/1900
 1 No 01/01/1900
 2 Yes 01/01/1900
 8 Not Applicable 01/01/1900
 9 Unknown 01/01/1900

GOSocRestrict Restriction on Social and Leisure Activities 04/01/1998

Question: What is the extent of restriction on your social and leisure activities?

0 Variable Did Not Exist 01/01/1900
 1 Participate a Bit Less (At least half as often as before injury (LGR)) 01/01/1900
 2 Participate Much Less (Less than half as often (UMD)) 01/01/1900
 3 Unable to Participate (Rarely, if ever, take part (LMD)) 01/01/1900
 8 Not Applicable 01/01/1900
 9 Unknown 01/01/1900

GOSocPrior Engage in Regular Social and Leisure Activities Before Injury 04/01/1998

Question: Did you engage in regular social and leisure activities outside the home before the injury?

0 Variable Did Not Exist 01/01/1900
 1 No 01/01/1900
 2 Yes 01/01/1900
 8 Not Applicable 01/01/1900
 9 Unknown 01/01/1900

GOSDisrupt Psychological Problems Caused Disruption in Family/Friendships 04/01/1998



Form: 2

GLASGOW OUTCOME SCALE - EXTENDED

Last updated: 04/01/2008

Variable GOSE

Question: Have there been psychological problems which have resulted in ongoing family disruption or disruption to friendships?

- 0 Variable Did Not Exist 01/01/1900
- 1 No 01/01/1900
- 2 Yes 01/01/1900
- 8 Not Applicable 01/01/1900
- 9 Unknown 01/01/1900

GOSDisruptEx **Extent of Disruption in Family/Friendships** **04/01/1998**

Question: What has been the extent of disruption or strain?

- 0 Variable Did Not Exist 01/01/1900
- 1 Occasionally: Less than weekly (LGR) 01/01/1900
- 2 Frequent: Once per week or more but tolerable (UMD) 01/01/1900
- 3 Constant: Daily and intolerable (LMD) 01/01/1900
- 8 Not Applicable 01/01/1900
- 9 Unknown 01/01/1900

GOSPrbFam **Problems with Family/Friend Before Injury** **04/01/1998**

Question: Were there problems with family or friends before the injury?

- 0 Variable Did Not Exist 01/01/1900
- 1 No 01/01/1900
- 2 Yes 01/01/1900
- 8 Not Applicable 01/01/1900
- 9 Unknown 01/01/1900

GOSPrbCurrent **Problems in Daily Life Relating to Injury** **04/01/1998**

Question: Are there any other current problems relating to the injury which affect daily life?

- 0 Variable Did Not Exist 01/01/1900
- 1 No 01/01/1900
- 2 Yes 01/01/1900
- 8 Not Applicable 01/01/1900
- 9 Unknown 01/01/1900

GOSPrbPrior **Similar Problems Present Before Injury** **04/01/1998**

Question: Were similar problems present before the injury?

- 0 Variable Did Not Exist 01/01/1900
- 1 No 01/01/1900
- 2 Yes 01/01/1900
- 8 Not Applicable 01/01/1900
- 9 Unknown 01/01/1900

GOSTotal **GOS-E Total Score** **04/01/1998**

Question: **GOS-E Score:**

- 0 Variable Did Not Exist 01/01/1900
- 1 Dead 01/01/1900
- 2 Vegetative State (VS) 01/01/1900
- 3 Lower Severe Disability (LSD) 01/01/1900
- 4 Upper Severe Disability (USD) 01/01/1900
- 5 Lower Moderate Disability (LMD) 01/01/1900
- 6 Upper Moderate Disability (UMD) 01/01/1900
- 7 Lower Good Recovery (LGR) 01/01/1900
- 8 Upper Good Recovery (UGR) 01/01/1900
- 9 Unknown 01/01/1900

GOSFactor **Most Important Factor in Outcome** **10/01/2007**

Question: What is the most important factor in outcome?

- 1 Effects of Head Injury 10/01/2007
- 2 Effects of Illness or Injury to Another Part of the Body 10/01/2007
- 3 A Mixture of These 10/01/2007
- 6 Variable Did Not Exist 10/01/2007
- 8 Not Applicable 10/01/2007



NOTE

Every effort should be made to obtain the GOS-E assessment, however, if it can not be assessed, use code "9. Unknown." Do not leave blank.

Collect and record all subscale scores unless instructed to skip some of them by the skip instructions on the Form II.

Scoring should be based on what a person is able to do.

For scoring instructions if any subscale items are "unknown", see External Links.

GOS-E is a "best source" variable. Not necessary to ask the two "supplemental" questions about seizures and source of disability (not present on data collection form).

DATA ENTRY: Enter into the database all subscale scores that do not autofill. For each case that you enter, check to be sure that the autofilled total score in the database is the same as the total score that has been recorded on the Form II. Notify your Data Manager of any discrepancies.

DATA MANAGERS: If errors in calculating the total score turn up on the Form II, provide your data collector(s) with more training in scoring the GOS-E and in calculating the total score. Contact the TBINDC if you have questions.

EXAMPLE

Patient has constant, daily childish psychological problems. Code:

GOSTotal : 5. Lower Moderate Disability (LMD)

HISTORY

| <u>Date of Change</u> | <u>Description</u> |
|-----------------------|--|
| 04/01/2008 | Subscore descriptions for code 8 changed from 'N/A-deceased' to 'N/A'. |
| 04/01/2008 | Changed NOTE : to reflect that a person should ask the follow up question of source of disability. |
| 10/01/2007 | Added question regarding most important factor in determining outcome |
| 04/01/2007 | Added NOTE : that clarifies scoring should be based on what a person is able to do |
| 01/01/2005 | Moved items from CODE to NOTE. |
| 01/01/2005 | Moved item about comparability of GOS variables and GOSE variables from NOTE to CHARACTERISTICS OF DATA. |
| 01/01/2005 | Deleted NOTE about adding subscale boxes for the convenience of data collectors. (Data collectors should now fill out all boxes other than those skipped according to instructions on the data collection form.) |
| 07/01/2004 | Clarified instructions in CODE for double-checking the accuracy of the total score. |
| 07/01/2004 | Added NOTE : to use the procedure in CODE to check the accuracy of the total score. |
| 07/01/2004 | Removed instruction to enter only the overall score into the database. |
| 04/01/2004 | Added database procedure that double-checks data collector's coding of overall rating score |
| 04/01/2004 | Added instructions in NOTES for double-check procedure. |
| 04/01/2004 | In syllabus, added "unknown" codes for 5b, 6b, 7b. |
| 04/01/2004 | Added link from source publication to PubMed. |
| 04/01/2004 | Added links to COMBI. |
| 10/01/2003 | Added answer boxes to individual items. (To assist in data collection; individual item data are not entered into the database.) |
| 01/01/2003 | Deleted subscore variables. |
| 10/14/2002 | Now shows the codes for 5b,6b,7b as different than the codes for the other items. |
| 10/14/2002 | Removed initial question from data collection form that asked if ptn is deceased. |
| 10/14/2002 | Added NOTE : that the two supplemental items are no longer on the data collection form. |
| 07/01/2002 | Added "8=N/A-deceased" to item codes. |
| 01/01/2002 | Added NOTE : that the 2 "supplemental" questions are not required. |
| 10/01/2001 | New administration and scoring instructions added to Form II. |
| 10/01/2001 | Removed references to the GOS-E Structured Interview (superseded by new instructions in Form II). |
| 10/01/2001 | Added NOTE : that GOS-E is a "best source" variable. |
| 08/20/2001 | Corrected code labels, as follows: Added DEAD=1; Changed VEGETATIVE STATE 1->2, LSD 2->3, USD 3->4, LMD 4->5, UMD 5->6, LGR 6->7, UGR 7->8, UNK 8->9. |
| 07/01/2001 | Instructions for data collection have been modified so questions 2b,5b,6b,7b, and 8b are not asked (coded 8=N/A) if participant has no disability. |
| 07/01/2001 | Added CODE : "8=N/A, no disability" and "9=unknown". |
| 07/01/2001 | Corrected code labels: added "Upper GR" to 8a(1); added "Lower GR" to 8a(2). |



| | |
|------------|---|
| 01/01/2001 | Subscores to be entered into database. |
| 07/01/2000 | Adopted extended version of Glasgow Outcome Scale (Glasgow Outcome Scale-Extended). |
| 04/02/1999 | Added NOTE : regarding scoring persons not employed prior to injury. |
| 09/01/1998 | Added ABIC checklist for scoring GOS, amended example and source. |
| 04/01/1998 | Variable added to database. |

SOURCE

JT Wilson, L Pettigrew, G Teasdale. Structured Interviews for the Glasgow Outcome Scale and the Extended Glasgow Outcome Scale: Guidelines for their use. Journal of Neurotrauma, Vol. 15 No. 8, 1998. For an abstract of this article, see External Links.

For additional references, see External Links.

QUESTIONS

QUESTION: It would be good if you could recreate the coding as in 8.1, because it's very useful for checking the accuracy with which data collectors assign the overall score.

ANSWER: [That has been added to the data entry screens as a check on the accuracy of data collector's calculation of the overall score.](#)

QUESTION: In the GOS-E, if one or more items are "9=unknown", should the overall score be "9=unknown"?

ANSWER: [Not necessarily. The hierarchical nature of the GOS-E items causes lower items in the scale to not contribute to the overall score if the person is able to perform the task described by a higher item. For more information see the email sent 10/12/2004, which will be added to the syllabus as a NOTE on 1/1/2005.](#)

QUESTION: I have checked the syllabus and I am still uncertain about items 5a and 5b with regards to persons who are retired because of age. Are we to assume that if they are healthy, they would be able to work so 5a would be yes and 5b would be no restrictions?

ANSWER: [In the external link - Frequently Asked Questions, according to Wilson et al. \(p. 576\), "If the person was unemployed and not seeking work before the injury, then they should be rated on the answers given to questions 6 and 7. For example, if the person is long-term unemployed or retired, then they should be rated on social and leisure activities and personal relationships."](#)

QUESTION: I have a participant that is in grad school and was prior to his injury. He states that he is not able to handle the same amount of courses and work load now so I coded 5b as reduced work capacity (school). Now, do we then look at 5c as "were you going to school before your injury" instead of work?

ANSWER: [You can base the GOS-E employment section on education instead of employment if the participant was not working prior to injury. Evaluate whether the participant was attending school without difficulty \(extra time, assistance, tutors, etc.\). If the participant has returned to school part-time because she can not return to a full schedule due to the injury, then yes, code 5b as 1-Reduced work capacity. If you don't have enough information to rate their schooling ability, you can skip the employment section and code as 8's, and move onto the next GOS-E section.](#)



DEFINITION

The FIM is a measure of disability. It is intended to measure what the person with the disability actually does, not what he or she ought to be able to do, or might be able to do if certain circumstances were different.

FIM data are to be collected according to the current (4/1/04) IRF-PAI coding instructions See External Links , supplemented by any further instructions in your syllabus. Information about the FIM can be found in the IRF-PAI manual in section III, pages 10-57. If it is not possible for your Center to follow the correct manual, notify the TBINDC.

VARIABLES

| Name | Description | Date Added | Date Removed |
|------------------|---|-------------------|--------------|
| FIMFeedF | Feeding | 01/01/1900 | |
| Question: | Feeding: | | |
| | 1 Total Assist (< 25%) | 01/01/1900 | |
| | 2 Maximal Assist (25 - 49%) | 01/01/1900 | |
| | 3 Moderate Assist (50 - 74%) | 01/01/1900 | |
| | 4 Minimal Assist (>= 75%) | 01/01/1900 | |
| | 5 Supervision (100%) | 01/01/1900 | |
| | 6 Modified Independence (Extra time, device) | 01/01/1900 | |
| | 7 Complete Independence (Timely, safely) | 01/01/1900 | |
| | 8 Not Applicable: Variable not due this year (Code no longer used; data now collected in all follow-up years) | 01/01/1900 | |
| | 9 Unknown | 01/01/1900 | |
| FIMGroomF | Grooming | 01/01/1900 | |
| Question: | Grooming: | | |
| | 1 Total Assist (< 25%) | 01/01/1900 | |
| | 2 Maximal Assist (25 - 49%) | 01/01/1900 | |
| | 3 Moderate Assist (50 - 74%) | 01/01/1900 | |
| | 4 Minimal Assist (>= 75%) | 01/01/1900 | |
| | 5 Supervision (100%) | 01/01/1900 | |
| | 6 Modified Independence (Extra time, device) | 01/01/1900 | |
| | 7 Complete Independence (Timely, safely) | 01/01/1900 | |
| | 8 Not Applicable: Variable not due this year (Code no longer used; data now collected in all follow-up years) | 01/01/1900 | |
| | 9 Unknown | 01/01/1900 | |
| FIMBathF | Bathing | 01/01/1900 | |
| Question: | Bathing: | | |
| | 1 Total Assist (< 25%) | 01/01/1900 | |
| | 2 Maximal Assist (25 - 49%) | 01/01/1900 | |
| | 3 Moderate Assist (50 - 74%) | 01/01/1900 | |
| | 4 Minimal Assist (>= 75%) | 01/01/1900 | |
| | 5 Supervision (100%) | 01/01/1900 | |
| | 6 Modified Independence (Extra time, device) | 01/01/1900 | |
| | 7 Complete Independence (Timely, safely) | 01/01/1900 | |
| | 8 Not Applicable: Variable not due this year (Code no longer used; data now collected in all follow-up years) | 01/01/1900 | |
| | 9 Unknown | 01/01/1900 | |
| FIMDrupF | Dressing Upper Body | 01/01/1900 | |
| Question: | Dressing Upper Body: | | |
| | 1 Total Assist (< 25%) | 01/01/1900 | |
| | 2 Maximal Assist (25 - 49%) | 01/01/1900 | |
| | 3 Moderate Assist (50 - 74%) | 01/01/1900 | |
| | 4 Minimal Assist (>= 75%) | 01/01/1900 | |
| | 5 Supervision (100%) | 01/01/1900 | |
| | 6 Modified Independence (Extra time, device) | 01/01/1900 | |
| | 7 Complete Independence (Timely, safely) | 01/01/1900 | |



Form: 2

FIM MOTOR

Last updated:

Variable FIMMOTF

| | | |
|---|---|------------|
| 8 | Not Applicable: Variable not due this year (Code no longer used; data now collected in all follow-up years) | 01/01/1900 |
| 9 | Unknown | 01/01/1900 |

| | | |
|-------------------|----------------------------|-------------------|
| FIMDrsdwnF | Dressing Lower Body | 01/01/1900 |
|-------------------|----------------------------|-------------------|

| | | |
|------------------|---|------------|
| Question: | Dressing Lower Body: | |
| 1 | Total Assist (< 25%) | 01/01/1900 |
| 2 | Maximal Assist (25 - 49%) | 01/01/1900 |
| 3 | Moderate Assist (50 - 74%) | 01/01/1900 |
| 4 | Minimal Assist (>= 75%) | 01/01/1900 |
| 5 | Supervision (100%) | 01/01/1900 |
| 6 | Modified Independence (Extra time, device) | 01/01/1900 |
| 7 | Complete Independence (Timely, safely) | 01/01/1900 |
| 8 | Not Applicable: Variable not due this year (Code no longer used; data now collected in all follow-up years) | 01/01/1900 |
| 9 | Unknown | 01/01/1900 |

| | | |
|-------------------|------------------|-------------------|
| FIMToiletF | Toileting | 01/01/1900 |
|-------------------|------------------|-------------------|

| | | |
|------------------|---|------------|
| Question: | Toileting: | |
| 1 | Total Assist (< 25%) | 01/01/1900 |
| 2 | Maximal Assist (25 - 49%) | 01/01/1900 |
| 3 | Moderate Assist (50 - 74%) | 01/01/1900 |
| 4 | Minimal Assist (>= 75%) | 01/01/1900 |
| 5 | Supervision (100%) | 01/01/1900 |
| 6 | Modified Independence (Extra time, device) | 01/01/1900 |
| 7 | Complete Independence (Timely, safely) | 01/01/1900 |
| 8 | Not Applicable: Variable not due this year (Code no longer used; data now collected in all follow-up years) | 01/01/1900 |
| 9 | Unknown | 01/01/1900 |

| | | |
|--------------------|---------------------------|-------------------|
| FIMBladMgtF | Bladder Management | 01/01/1900 |
|--------------------|---------------------------|-------------------|

| | | |
|------------------|---|------------|
| Question: | Bladder Management: | |
| 1 | Total Assist (< 25%) | 01/01/1900 |
| 2 | Maximal Assist (25 - 49%) | 01/01/1900 |
| 3 | Moderate Assist (50 - 74%) | 01/01/1900 |
| 4 | Minimal Assist (>= 75%) | 01/01/1900 |
| 5 | Supervision (100%) | 01/01/1900 |
| 6 | Modified Independence (Extra time, device) | 01/01/1900 |
| 7 | Complete Independence (Timely, safely) | 01/01/1900 |
| 8 | Not Applicable: Variable not due this year (Code no longer used; data now collected in all follow-up years) | 01/01/1900 |
| 9 | Unknown | 01/01/1900 |
| 66 | Variable Did Not Exist | 01/01/1900 |

| | | |
|---------------------|------------------------------------|-------------------|
| FIMBladAsstF | Bladder Level of Assistance | 01/01/1900 |
|---------------------|------------------------------------|-------------------|

| | | |
|------------------|---|------------|
| Question: | Bladder Management – Level of Assistance: | |
| 1 | Total Assist (< 25%) | 01/01/1900 |
| 2 | Maximal Assist (25 - 49%) | 01/01/1900 |
| 3 | Moderate Assist (50 - 74%) | 01/01/1900 |
| 4 | Minimal Assist (>= 75%) | 01/01/1900 |
| 5 | Supervision (100%) | 01/01/1900 |
| 6 | Modified Independence (Extra time, device) | 01/01/1900 |
| 7 | Complete Independence (Timely, safely) | 01/01/1900 |
| 8 | Not Applicable: Variable not due this year (Code no longer used; data now collected in all follow-up years) | 01/01/1900 |
| 9 | Unknown | 01/01/1900 |
| 66 | Variable Did Not Exist | 01/01/1900 |

| | | |
|--------------------|---------------------------------------|-------------------|
| FIMBladAccF | Bladder Frequency of Accidents | 01/01/1900 |
|--------------------|---------------------------------------|-------------------|

| | | |
|------------------|---|------------|
| Question: | Bladder Management – Frequency of Accidents: | |
| 1 | Five or More Accidents in the Past 7 Days | 01/01/1900 |



Form: 2

FIM MOTOR

Last updated:

Variable FIMMOTF

| | | |
|----|--|------------|
| 2 | Four Accidents in the Past 7 Days | 01/01/1900 |
| 3 | Three Accidents in the Past 7 Days | 01/01/1900 |
| 4 | Two Accidents in the Past 7 Days | 01/01/1900 |
| 5 | One Accident in the Past 7 Days | 01/01/1900 |
| 6 | No Accidents: Uses device (Catheter, ostomy) | 01/01/1900 |
| 7 | No Accidents | 01/01/1900 |
| 8 | Not Applicable: Variable not due this year | 01/01/1900 |
| 9 | Unknown | 01/01/1900 |
| 66 | Variable Did Not Exist | 01/01/1900 |

| | | |
|-------------------|-------------------------|-------------------|
| FIMBwlMgtF | Bowel Management | 01/01/1900 |
|-------------------|-------------------------|-------------------|

| | | |
|------------------|---|------------|
| Question: | Bowel Management: | |
| 1 | Total Assist (< 25%) | 01/01/1900 |
| 2 | Maximal Assist (25 - 49%) | 01/01/1900 |
| 3 | Moderate Assist (50 - 74%) | 01/01/1900 |
| 4 | Minimal Assist (>= 75%) | 01/01/1900 |
| 5 | Supervision (100%) | 01/01/1900 |
| 6 | Modified Independence (Extra time, device) | 01/01/1900 |
| 7 | Complete Independence (Timely, safely) | 01/01/1900 |
| 8 | Not Applicable: Variable not due this year (Code no longer used; data now collected in all follow-up years) | 01/01/1900 |
| 9 | Unknown | 01/01/1900 |
| 66 | Variable Did Not Exist | 01/01/1900 |

| | | |
|--------------------|----------------------------------|-------------------|
| FIMBwlAsstF | Bowel Level of Assistance | 01/01/1900 |
|--------------------|----------------------------------|-------------------|

| | | |
|------------------|---|------------|
| Question: | Bowel Management – Level of Assistance: | |
| 1 | Total Assist (< 25%) | 01/01/1900 |
| 2 | Maximal Assist (25 - 49%) | 01/01/1900 |
| 3 | Moderate Assist (50 - 74%) | 01/01/1900 |
| 4 | Minimal Assist (>= 75%) | 01/01/1900 |
| 5 | Supervision (100%) | 01/01/1900 |
| 6 | Modified Independence (Extra time, device) | 01/01/1900 |
| 7 | Complete Independence (Timely, safely) | 01/01/1900 |
| 8 | Not Applicable: Variable not due this year (Code no longer used; data now collected in all follow-up years) | 01/01/1900 |
| 9 | Unknown | 01/01/1900 |
| 66 | Variable Did Not Exist | 01/01/1900 |

| | | |
|-------------------|-------------------------------------|-------------------|
| FIMBwlAccF | Bowel Frequency of Accidents | 01/01/1900 |
|-------------------|-------------------------------------|-------------------|

| | | |
|------------------|---|------------|
| Question: | Bowel Management – Frequency of Accidents: | |
| 1 | Five or More Accidents in the Past 7 Days | 01/01/1900 |
| 2 | Four Accidents in the Past 7 Days | 01/01/1900 |
| 3 | Three Accidents in the Past 7 Days | 01/01/1900 |
| 4 | Two Accidents in the Past 7 Days | 01/01/1900 |
| 5 | One Accident in the Past 7 Days | 01/01/1900 |
| 6 | No Accidents: Uses device (Catheter, ostomy) | 01/01/1900 |
| 7 | No Accidents | 01/01/1900 |
| 8 | Not Applicable: Variable not due this year | 01/01/1900 |
| 9 | Unknown | 01/01/1900 |
| 66 | Variable Did Not Exist | 01/01/1900 |

| | | |
|---------------------|---------------------------------------|-------------------|
| FIMBedTransF | Bed Chair Wheelchair Transfers | 01/01/1900 |
|---------------------|---------------------------------------|-------------------|

| | | |
|------------------|--|------------|
| Question: | Bed Chair Wheelchair Transfers: | |
| 1 | Total Assist (< 25%) | 01/01/1900 |
| 2 | Maximal Assist (25 - 49%) | 01/01/1900 |
| 3 | Moderate Assist (50 - 74%) | 01/01/1900 |
| 4 | Minimal Assist (>= 75%) | 01/01/1900 |
| 5 | Supervision (100%) | 01/01/1900 |
| 6 | Modified Independence (Extra time, device) | 01/01/1900 |
| 7 | Complete Independence (Timely, safely) | 01/01/1900 |



Form: 2

FIM MOTOR

Last updated:

Variable FIMMOTF

| | | |
|---|---|------------|
| 8 | Not Applicable: Variable not due this year (Code no longer used; data now collected in all follow-up years) | 01/01/1900 |
| 9 | Unknown | 01/01/1900 |

| | | |
|----------------------|-------------------------|-------------------|
| FIMToilTransF | Toilet Transfers | 01/01/1900 |
|----------------------|-------------------------|-------------------|

| | | |
|------------------|---|------------|
| Question: | Toilet Transfers: | |
| | 1 Total Assist (< 25%) | 01/01/1900 |
| | 2 Maximal Assist (25 - 49%) | 01/01/1900 |
| | 3 Moderate Assist (50 - 74%) | 01/01/1900 |
| | 4 Minimal Assist (>= 75%) | 01/01/1900 |
| | 5 Supervision (100%) | 01/01/1900 |
| | 6 Modified Independence (Extra time, device) | 01/01/1900 |
| | 7 Complete Independence (Timely, safely) | 01/01/1900 |
| | 8 Not Applicable: Variable not due this year (Code no longer used; data now collected in all follow-up years) | 01/01/1900 |
| | 9 Unknown | 01/01/1900 |

| | | |
|---------------------|--------------------------------|-------------------|
| FIMTubTransF | Tub or Shower Transfers | 01/01/1900 |
|---------------------|--------------------------------|-------------------|

| | | |
|------------------|---|------------|
| Question: | Tub Or Shower Transfers: | |
| | 1 Total Assist (< 25%) | 01/01/1900 |
| | 2 Maximal Assist (25 - 49%) | 01/01/1900 |
| | 3 Moderate Assist (50 - 74%) | 01/01/1900 |
| | 4 Minimal Assist (>= 75%) | 01/01/1900 |
| | 5 Supervision (100%) | 01/01/1900 |
| | 6 Modified Independence (Extra time, device) | 01/01/1900 |
| | 7 Complete Independence (Timely, safely) | 01/01/1900 |
| | 8 Not Applicable: Variable not due this year (Code no longer used; data now collected in all follow-up years) | 01/01/1900 |
| | 9 Unknown | 01/01/1900 |

| | | |
|---------------------|--------------------------------|-------------------|
| FIMLocoModeF | Walking/Wheelchair Mode | 01/01/1900 |
|---------------------|--------------------------------|-------------------|

| | | |
|------------------|---|------------|
| Question: | Walking/Wheelchair – Mode: | |
| | c Wheelchair | 01/01/1900 |
| | w Walk | 01/01/1900 |
| | 8 Not Applicable: Variable not due this year (Code no longer used; data now collected in all follow-up years) | 01/01/1900 |
| | 9 Unknown | 01/01/1900 |

| | | |
|-----------------|---------------------------|-------------------|
| FIMLocoF | Walking/Wheelchair | 01/01/1900 |
|-----------------|---------------------------|-------------------|

| | | |
|------------------|---|------------|
| Question: | Walking/Wheelchair: | |
| | 1 Total Assist (< 25%) | 01/01/1900 |
| | 2 Maximal Assist (25 - 49%) | 01/01/1900 |
| | 3 Moderate Assist (50 - 74%) | 01/01/1900 |
| | 4 Minimal Assist (>= 75%) | 01/01/1900 |
| | 5 Supervision (100%) | 01/01/1900 |
| | 6 Modified Independence (Extra time, device) | 01/01/1900 |
| | 7 Complete Independence (Timely, safely) | 01/01/1900 |
| | 8 Not Applicable: Variable not due this year (Code no longer used; data now collected in all follow-up years) | 01/01/1900 |
| | 9 Unknown | 01/01/1900 |

| | | |
|-------------------|---------------|-------------------|
| FIMStairsF | Stairs | 01/01/1900 |
|-------------------|---------------|-------------------|

| | | |
|------------------|--|------------|
| Question: | Stairs: | |
| | 1 Total Assist (< 25%) | 01/01/1900 |
| | 2 Maximal Assist (25 - 49%) | 01/01/1900 |
| | 3 Moderate Assist (50 - 74%) | 01/01/1900 |
| | 4 Minimal Assist (>= 75%) | 01/01/1900 |
| | 5 Supervision (100%) | 01/01/1900 |
| | 6 Modified Independence (Extra time, device) | 01/01/1900 |
| | 7 Complete Independence (Timely, safely) | 01/01/1900 |



Form: 2

FIM MOTOR

Last updated:

Variable FIMMOTF

| | | |
|---|---|------------|
| 8 | Not Applicable: Variable not due this year (Code no longer used; data now collected in all follow-up years) | 01/01/1900 |
| 9 | Unknown | 01/01/1900 |

NOTE

All FIM items must be scored. Record what patient actually does. Every effort should be made to obtain the FIM assessments, however, if any items are not assessed, use code "9. Unknown." Do not leave blanks.

According to the UDS Procedures for Scoring the FIM, "if the subject would be put at risk for injury if tested or does not perform the activity, enter 1". Use this same rule for the TBI Model Systems FIM data collection.

If differences in function occur in different environments or at different times of the day, record the lowest (most dependent) score.

However, the current training manual qualifies this, as follows: "The patient's score on measures of function should not reflect arbitrary limitations or circumstances imposed by the facility. For example, a patient who can routinely ambulate more than 150 feet throughout the day with supervision (score of 5 for FIM Locomotion: Walk/Wheelchair item), but who is observed to ambulate only 20 feet at night to use the toilet because that is the distance from his/her bed, should receive a Walk score of 5 rather than a lower score" (IRF-PAI Training Manual 1/16/02, page III-4).

If at follow-up evaluation, patient is walking AND using a wheelchair, code Mode as the more frequently used mode of locomotion. Do not use the code "b. Both" (as is indicated by UDS instructions). Use all sources of information to determine the more frequent mode of locomotion at the time of evaluation and code either "w" or "c" as appropriate. If more frequent mode of locomotion cannot be determined, code "9. Unknown."

Wearing of eyeglasses causes Comprehension to be scored "6" only if the person's primary form of comprehension is visual (rather than auditory, which is usually primary).

Level of Assistance and Frequency of Accidents are recorded for Bladder Management and Bowel Management. For Frequency of Accidents for both Bowel and Bladder, the assessment time period is 7 days-that is, the number of accidents is counted across the 7 days prior to the patient's FIM evaluation. If information is not available from the entire 7-day period, then record over the number of days (at least the 3 days prior to evaluation) for which information is available. No adjustment in scoring is made when the when the assessment time period is shorter than 7 days.

For Bladder Management, if patient does not void (e.g., renal failure and on hemodialysis), assign code "7. Complete Independence."

EXAMPLE

SELF CARE ITEMS:

Feeding : 2
 Grooming : 1
 Bathing : 2
 Dressing Upper Body : 3
 Dressing Lower Body : 3
 Toileting : 2

SPHINCTER CONTROL:

Bladder Management : 4
 Level of assistance : 4
 Frequency of accidents : 5
 Bowel Management : 5
 Level of assistance : 6
 Frequency of accidents : 5

MOBILITY ITEMS

Bed, Chair, Wheelchair Transfers : 3
 Toilet Transfers : 4
 Tub or Shower Transfers : 3

Locomotion:

Walking/Wheelchair : 3
 Stairs : 3

COMMUNICATIONS:

Comprehension : 7
 Expression : 6



Form: 2

FIM MOTOR

Last updated:

Variable FIMMOTF

PSYCHOSOCIAL ADJUSTMENT ITEMS:

Social Interaction : 6

COGNITIVE FUNCTION:

Problem Solving : 5

Memory : 4

HISTORY

Date of Change

Description

SOURCE

Uniform Data System for Medical Rehabilitation
232 Parker Hall
SUNY South Campus
3435 Main Street
Buffalo, New York 14214 3007
(716) 829 2076; FAX (716) 829 2080

The IRF-PAI instructions for the FIM are disseminated through the website of The Centers for Medicare and Medicaid Services. For information about the CMMS, go to: <http://www.cms.hhs.gov/researchers/projects/APR/2003/facts.pdf>.

QUESTIONS

QUESTION: We have a question about how to rate Bladder Management Frequency of Accidents specifically in cases where the pt is not continent of bowels and wears diapers. We are hesitant to select the word "accident" since this implies continence. We would like to know if a diaper can be likened to a device (ie, catheter as in item Bladder management when a pt is not continent of bladder) therefore selecting 6-No Accidents: Uses Device?

ANSWER: For a Bowel Management score of 6-Modified Independence on the FIM, the patient must be able to manage all aspects of their bowel care independently and have had no accidents within the last 7 days. An accident is defined by FIM as any soiling of linens or clothing, and if the participant wears a diaper, the bowel movement must be fully contained within the diaper, not soiling clothing or bedding. So if the patient wears a diaper, and they are able to retrieve the diaper, change it, and dispose of it without assistance, AND they have no accidents outside of the diaper then the total Bowel Management score would be a 6.



DEFINITION

The FIM is a measure of disability. It is intended to measure what the person with the disability actually does, not what he or she ought to be able to do, or might be able to do if certain circumstances were different.

FIM data are to be collected according to the current (4/1/04) IRF-PAI coding instructions See External Links , supplemented by any further instructions in your syllabus. Information about the FIM can be found in the IRF-PAI manual in section III, pages 10-57. If it is not possible for your Center to follow the correct manual, notify the TBINDC.

VARIABLES

| Name | Description | Date Added | Date Removed |
|--------------------|---|-------------------|--------------|
| FIMCompF | Comprehension | 01/01/1900 | |
| Question: | Comprehension: | | |
| | 1 Total Assist (< 25%) | 01/01/1900 | |
| | 2 Maximal Assist (25 - 49%) | 01/01/1900 | |
| | 3 Moderate Assist (50 - 74%) | 01/01/1900 | |
| | 4 Minimal Assist (>= 75%) | 01/01/1900 | |
| | 5 Supervision (100%) | 01/01/1900 | |
| | 6 Modified Independence (Extra time, device) | 01/01/1900 | |
| | 7 Complete Independence (Timely, safely) | 01/01/1900 | |
| | 8 Not Applicable: Variable not due this year (Code no longer used; data now collected in all follow-up years) | 01/01/1900 | |
| | 9 Unknown | 01/01/1900 | |
| FIMExpressF | Expression | 01/01/1900 | |
| Question: | Expression: | | |
| | 1 Total Assist (< 25%) | 01/01/1900 | |
| | 2 Maximal Assist (25 - 49%) | 01/01/1900 | |
| | 3 Moderate Assist (50 - 74%) | 01/01/1900 | |
| | 4 Minimal Assist (>= 75%) | 01/01/1900 | |
| | 5 Supervision (100%) | 01/01/1900 | |
| | 6 Modified Independence (Extra time, device) | 01/01/1900 | |
| | 7 Complete Independence (Timely, safely) | 01/01/1900 | |
| | 8 Not Applicable: Variable not due this year (Code no longer used; data now collected in all follow-up years) | 01/01/1900 | |
| | 9 Unknown | 01/01/1900 | |
| FIMSocialF | Social Interaction | 01/01/1900 | |
| Question: | Social Interaction: | | |
| | 1 Total Assist (< 25%) | 01/01/1900 | |
| | 2 Maximal Assist (25 - 49%) | 01/01/1900 | |
| | 3 Moderate Assist (50 - 74%) | 01/01/1900 | |
| | 4 Minimal Assist (>= 75%) | 01/01/1900 | |
| | 5 Supervision (100%) | 01/01/1900 | |
| | 6 Modified Independence (Extra time, device) | 01/01/1900 | |
| | 7 Complete Independence (Timely, safely) | 01/01/1900 | |
| | 8 Not Applicable: Variable not due this year (Code no longer used; data now collected in all follow-up years) | 01/01/1900 | |
| | 9 Unknown | 01/01/1900 | |
| FIMProbSlvF | Problem Solving | 01/01/1900 | |
| Question: | Problem Solving: | | |
| | 1 Total Assist (< 25%) | 01/01/1900 | |
| | 2 Maximal Assist (25 - 49%) | 01/01/1900 | |
| | 3 Moderate Assist (50 - 74%) | 01/01/1900 | |
| | 4 Minimal Assist (>= 75%) | 01/01/1900 | |
| | 5 Supervision (100%) | 01/01/1900 | |
| | 6 Modified Independence (Extra time, device) | 01/01/1900 | |
| | 7 Complete Independence (Timely, safely) | 01/01/1900 | |



Form: 2

FIM COGNITIVE

Last updated: 04/01/2010

Variable FIMCOGF

| | | |
|---|---|------------|
| 8 | Not Applicable: Variable not due this year (Code no longer used; data now collected in all follow-up years) | 01/01/1900 |
| 9 | Unknown | 01/01/1900 |

| FIMMemF | Memory | 01/01/1900 |
|------------------|---|------------|
| Question: | Memory: | |
| 1 | Total Assist (< 25%) | 01/01/1900 |
| 2 | Maximal Assist (25 - 49%) | 01/01/1900 |
| 3 | Moderate Assist (50 - 74%) | 01/01/1900 |
| 4 | Minimal Assist (>= 75%) | 01/01/1900 |
| 5 | Supervision (100%) | 01/01/1900 |
| 6 | Modified Independence (Extra time, device) | 01/01/1900 |
| 7 | Complete Independence (Timely, safely) | 01/01/1900 |
| 8 | Not Applicable: Variable not due this year (Code no longer used; data now collected in all follow-up years) | 01/01/1900 |
| 9 | Unknown | 01/01/1900 |

NOTE

All FIM items must be scored. Record what patient actually does. Every effort should be made to obtain the FIM assessments, however, if any items are not assessed, use code "9. Unknown." Do not leave blanks.

According to the UDS Procedures for Scoring the FIM, "if the subject would be put at risk for injury if tested or does not perform the activity, enter 1". Use this same rule for the TBI Model Systems FIM data collection.

If differences in function occur in different environments or at different times of the day, record the lowest (most dependent) score.

However, the current training manual qualifies this, as follows: "The patient's score on measures of function should not reflect arbitrary limitations or circumstances imposed by the facility. For example, a patient who can routinely ambulate more than 150 feet throughout the day with supervision (score of 5 for FIM Locomotion: Walk/Wheelchair item), but who is observed to ambulate only 20 feet at night to use the toilet because that is the distance from his/her bed, should receive a Walk score of 5 rather than a lower score" (IRF-PAI Training Manual 1/16/02, page III-4).

If at follow-up evaluation, patient is walking AND using a wheelchair, code Mode as the more frequently used mode of locomotion. Do not use the code "b. Both" (as is indicated by UDS instructions). Use all sources of information to determine the more frequent mode of locomotion at the time of evaluation and code either "w" or "c" as appropriate. If more frequent mode of locomotion cannot be determined, code "9. Unknown."

Wearing of eyeglasses causes Comprehension to be scored "6" only if the person's primary form of comprehension is visual (rather than auditory, which is usually primary).

Level of Assistance and Frequency of Accidents are recorded for Bladder Management and Bowel Management. For Frequency of Accidents for both Bowel and Bladder, the assessment time period is 7 days-that is, the number of accidents is counted across the 7 days prior to the patient's FIM evaluation. If information is not available from the entire 7-day period, then record over the number of days (at least the 3 days prior to evaluation) for which information is available. No adjustment in scoring is made when the when the assessment time period is shorter than 7 days.

For Bladder Management, if patient does not void (e.g., renal failure and on hemodialysis), assign code "7. Complete Independence."

EXAMPLE

SELF CARE ITEMS:

Feeding : 2
 Grooming : 1
 Bathing : 2
 Dressing Upper Body : 3
 Dressing Lower Body : 3
 Toileting : 2

SPHINCTER CONTROL:

Bladder Management : 4
 Level of assistance : 4
 Frequency of accidents : 5
 Bowel Management : 5
 Level of assistance : 6
 Frequency of accidents : 5



MOBILITY ITEMS

Bed, Chair, Wheelchair Transfers : 3

Toilet Transfers : 4

Tub or Shower Transfers : 3

Locomotion:

Walking/Wheelchair : 3

Stairs : 3

COMMUNICATIONS:

Comprehension : 7

Expression : 6

PSYCHOSOCIAL ADJUSTMENT ITEMS:

Social Interaction : 6

COGNITIVE FUNCTION:

Problem Solving : 5

Memory : 4

HISTORY

| <u>Date of Change</u> | <u>Description</u> |
|-----------------------|---|
| 04/01/2010 | Dropped Comprehension and Expression "Mode" variables |
| 04/01/2010 | Added FONE FIM document to External Links |
| 10/01/2009 | Changed variable name from "Functional Independence Measure" to "FIM" to be consistent with IRF-PAI changes. |
| 04/01/2006 | Updated the link to the IRF-PAI instruction manual. |
| 04/01/2006 | Changed symbols for "more than" to text so would be read correctly by Live Syllabus. |
| 07/01/2004 | In TRAINING, added instructions regarding certification that are found in "22f.Data Quality Guidelines". |
| 07/01/2004 | In CODES, added back in the code for "Not due this year", plus a statement that the code is no longer used. |
| 07/01/2004 | In DEFINITION fixed the link to the current (4/1/2004) IRF-PAI manual and added a description of where to look in the manual for FIM-related information. |
| 04/01/2004 | Added links to COMBI. |
| 04/01/2004 | Updated link to IRF-PAI manual (4/1/04 version). |
| 01/01/2004 | Added NOTE : about scoring Comprehension when person wears eyeglasses. |
| 01/01/2003 | Deleted codes for "Not due", because data are now being collected in all follow-up years (due to less dynamic follow-up schedule). |
| 01/01/2003 | Deleted "less dynamic schedule" instruction (because FIM is now collected in all years due to reduced schedule). |
| 07/01/2002 | Updated SOURCE. |
| 07/01/2002 | Improved DEFINITION: added first two sentences; added reference to SOURCE; made explicit the requirement to follow current instructions. |
| 07/01/2002 | Added NOTE : to record what participant actually does. |
| 07/01/2002 | Added NOTE : about coding of #8 if participant does not void. |
| 07/01/2002 | Added NOTE : about assessment time period, including that score is to reflect poorest functioning. |
| 07/01/2002 | Added NOTE : about coding 8a, 8b, 9a, 9b, including coding of 8b and 9b if information is not available for the full 7-day assessment time period. |
| 07/01/2002 | Added CODE : "66=Variable did not exist". |
| 04/01/2002 | Corrected the "mode" codes for #14, 17, 18 (alphabetic rather than numeric). |
| 04/01/2002 | In DEFINITION, added reference Center's instruction manual. |
| 04/01/2002 | For #8 and #9, added function modifier items "a=Level of assistance" and "b=Frequency of accidents", the codes for 8b and 9b, and examples for 8a,b & 9a,b. |
| 04/01/2002 | Added NOTE : about coding 14 (mode of locomotion) if patient both walks and uses wheelchair. |
| 04/01/2002 | Corrected code 4 "Minimal Assist" that ptn does greater than or equal to 75% rather than greater than 75%. |
| 04/01/2002 | Updated SOURCE. |
| 01/01/2002 | Added CODE : "8=Not due" to #14 & 18 in these pages. |
| 07/01/2001 | Added definition of FIM. |
| 01/01/2001 | Changed collection schedule to years 1,2,5,10 and every 5 years thereafter. |
| 10/01/1999 | Revised note and unknown code used if patient does not perform activity. |
| 07/01/1999 | Deleted FAM items. |
| 04/15/1998 | Added NOTE : how to code optional FAM items not collected. |
| 04/01/1998 | Added NOTE : that the 12 FAM items are now optional for collection. |
| 07/01/1995 | Dropped mode of locomotion code "b" for item #14. |
| 03/24/1995 | Added unknown code for mode items 14,17 and 18. |



Form: 2

FIM COGNITIVE

Last updated: 04/01/2010

Variable FIMCOGF

| | |
|------------|--|
| 09/13/1994 | Added unknown code. |
| 09/13/1994 | Added NOTE : for coding clarification. |
| 09/13/1994 | Deleted date of assessment. |
| 09/13/1994 | Updated source to include FIM Version 4.0. |
| 09/13/1994 | Updated descriptors for #16, 23, and 25. |

SOURCE

Uniform Data System for Medical Rehabilitation
232 Parker Hall
SUNY South Campus
3435 Main Street
Buffalo, New York 14214 3007
(716) 829 2076; FAX (716) 829 2080

The IRF-PAI instructions for the FIM are disseminated through the website of The Centers for Medicare and Medicaid Services. For information about the CMMS, go to: <http://www.cms.hhs.gov/researchers/projects/APR/2003/facts.pdf>.



DEFINITION

2.0 Instruction: I have a series of questions that range from simple functioning to employment that I would like to ask. The first set of questions that I am going to ask you deals with communication abilities. Communication can be through voice, writ

VARIABLES

| <u>Name</u> | <u>Description</u> | <u>Date Added</u> | <u>Date Removed</u> |
|------------------|---|-------------------|---------------------|
| drs2_1 | Able to Communicate and Understood Clearly | 10/01/2012 | |
| Question: | Is [name] able to communicate with you in a way that you and others clearly understand? | | |
| | 1 No (Skip to 2.4) | 10/01/2012 | |
| | 2 Inconsistently (Go to 2.2) | 10/01/2012 | |
| | 3 Consistently (Go to 2.2) | 10/01/2012 | |
| | 6 Variable Did Not Exist | 10/01/2012 | |
| | 9 Unknown | 10/01/2012 | |
| drs2_2 | Primary Communication | 10/01/2012 | |
| Question: | How do they communicate primarily? | | |
| | 1 Speech | 10/01/2012 | |
| | 2 Writing Or Spelling Device | 10/01/2012 | |
| | 3 Gestures Or Signals | 10/01/2012 | |
| | 6 Variable Did Not Exist | 10/01/2012 | |
| | 8 Not Applicable (Go to 2.2) | 10/01/2012 | |
| | 9 Unknown | 10/01/2012 | |
| drs2_3 | Able to Give the Correct Date and Time | 10/01/2012 | |
| Question: | Are you able to give the correct date and time within a few seconds of being asked? | | |
| | 1 No (Skip to 4.0) | 10/01/2012 | |
| | 2 Sometimes (Skip to 4.0) | 10/01/2012 | |
| | 3 Yes But Takes More Than A Few Seconds (Skip to 4.0) | 10/01/2012 | |
| | 4 Yes (Skip to 4.0) | 10/01/2012 | |
| | 6 Variable Did Not Exist | 10/01/2012 | |
| | 8 Not Applicable (Go to 2.2) | 10/01/2012 | |
| | 9 Unknown | 10/01/2012 | |
| drs2_4 | Repeated Few Words or Random Answers, Shouting or Swearing | 10/01/2012 | |
| Question: | Does [name] have only a few words that [s/he] uses over and over or does [s/he] express him/herself only through random answers, shouting or swearing? | | |
| | 1 No (Go to 2.5) | 10/01/2012 | |
| | 2 Yes (Skip to 4.0) | 10/01/2012 | |
| | 6 Variable Did Not Exist | 10/01/2012 | |
| | 8 Not Applicable | 10/01/2012 | |
| | 9 Unknown | 10/01/2012 | |
| drs2_5 | Moan, Groan or Make Other Sounds | 10/01/2012 | |
| Question: | Does [name] only moan, groan or make other sounds that are not understandable? | | |
| | 1 No (Skip to 4.0) | 10/01/2012 | |
| | 2 Yes (Skip to 4.0) | 10/01/2012 | |
| | 6 Variable Did Not Exist | 10/01/2012 | |
| | 8 Not Applicable | 10/01/2012 | |
| | 9 Unknown | 10/01/2012 | |

HISTORY

| <u>Date of Change</u> | <u>Description</u> |
|-----------------------|---|
| 04/01/2013 | Changed CODES : See Characterists of Data |
| 10/01/2012 | Added to Database |



Form: 2

DRS GCS

Last updated: 04/01/2013

Variable DRSGCS

SOURCE

Malec JF, Hammond FM, Giacino JT, Whyte J, Wright J. (2012) A Structured Interview to Improve the Reliability and Psychometric Integrity of the Disability Rating Scale. Arch Phys Med & Rehabil, Epub 2012 Sep;93(9):1603-8.

Rappaport M, Hall KM, Hopkins K, Belleza T, Cope N. (1982). Disability Rating Scale for severe head trauma patients: Coma to community. Arch Phys Med & Rehabil, 63:118-123. rev 8/87. For an abstract of this article, see External Links



DEFINITION

4. 0 – 6.0 Instruction: I am now going to ask you several sets of questions regarding your awareness and understanding of several everyday self care activities. These questions focus on if you know how and when these activities should occur (ie, always,

VARIABLES

| <u>Name</u> | <u>Description</u> | <u>Date Added</u> | <u>Date Removed</u> |
|------------------|---|-------------------|---------------------|
| drs4_1 | Feed Self Independently/Manage Tube Feedings | 10/01/2012 | |
| Question: | Can you feed yourself independently or manage tube feedings appropriately without help or reminders? | | |
| 1 | No (Go to 4.2) | 10/01/2012 | |
| 2 | Yes (Mark 4 = Always in 4.2. and 4.3., then skip to 5.0.) | 10/01/2012 | |
| 6 | Variable Did Not Exist | 10/01/2012 | |
| 9 | Unknown | 10/01/2012 | |
| drs4_2 | Use of Eating/Feeding Utensils/Equipment | 10/01/2012 | |
| Question: | Do you understand what eating or feeding utensils or equipment are for and how they should be used? | | |
| 1 | Never | 10/01/2012 | |
| 2 | Some Of The Time | 10/01/2012 | |
| 3 | Most Of The Time | 10/01/2012 | |
| 4 | Always | 10/01/2012 | |
| 6 | Variable Did Not Exist | 10/01/2012 | |
| 9 | Unknown | 10/01/2012 | |
| drs4_3 | Meal/Feeding Times | 10/01/2012 | |
| Question: | Do you know when meal or feeding times are? | | |
| 1 | Never | 10/01/2012 | |
| 2 | Some Of The Time | 10/01/2012 | |
| 3 | Most Of The Time | 10/01/2012 | |
| 4 | Always | 10/01/2012 | |
| 6 | Variable Did Not Exist | 10/01/2012 | |
| 9 | Unknown | 10/01/2012 | |

HISTORY

| <u>Date of Change</u> | <u>Description</u> |
|-----------------------|---|
| 04/01/2013 | Changed CODES : See Characterists of Data |
| 10/01/2012 | Added to Database |

SOURCE

Malec JF, Hammond FM, Giacino JT, Whyte J, Wright J. (2012) A Structured Interview to Improve the Reliability and Psychometric Integrity of the Disability Rating Scale. Arch Phys Med & Rehabil, Epub 2012 Sep;93(9):1603-8.

Rappaport M, Hall KM, Hopkins K, Belleza T, Cope N. (1982). Disability Rating Scale for severe head trauma patients: Coma to community. Arch Phys Med & Rehabil, 63:118-123. rev 8/87. For an abstract of this article, see External Links



DEFINITION

4. 0 – 6.0 Instruction: I am now going to ask you several sets of questions regarding your awareness and understanding of several everyday self care activities. These questions focus on if you know how and when these activities should occur (ie, always,

VARIABLES

| <u>Name</u> | <u>Description</u> | <u>Date Added</u> | <u>Date Removed</u> |
|------------------|---|-------------------|---------------------|
| drs5_1 | Can Use Toilet/Manage Bowel and Bladder Routine | 10/01/2012 | |
| Question: | Can you use the toilet or manage your bowel and bladder routine independently and appropriately without help or reminders? | | |
| 1 | No (Go to 5.2) | 10/01/2012 | |
| 2 | Yes (Mark 4 = Always in 5.2. and 5.3., then skip to 6.0) | 10/01/2012 | |
| 6 | Variable Did Not Exist | 10/01/2012 | |
| 9 | Unknown | 10/01/2012 | |
| drs5_2 | Manage Clothing or Special Equipment When Toileting | 10/01/2012 | |
| Question: | Do you understand how to manage your clothing or special equipment when toileting or in bowel and bladder management? | | |
| 1 | Never | 10/01/2012 | |
| 2 | Some Of The Time | 10/01/2012 | |
| 3 | Most Of The Time | 10/01/2012 | |
| 4 | Always | 10/01/2012 | |
| 6 | Variable Did Not Exist | 10/01/2012 | |
| 9 | Unknown | 10/01/2012 | |
| drs5_3 | Know To Use Toilet or to Conduct Bowel and Bladder Management | 10/01/2012 | |
| Question: | Do you know when to use the toilet or to conduct bowel and bladder management? | | |
| 1 | Never | 10/01/2012 | |
| 2 | Some Of The Time | 10/01/2012 | |
| 3 | Most Of The Time | 10/01/2012 | |
| 4 | Always | 10/01/2012 | |
| 6 | Variable Did Not Exist | 10/01/2012 | |
| 9 | Unknown | 10/01/2012 | |

HISTORY

| <u>Date of Change</u> | <u>Description</u> |
|-----------------------|---|
| 04/01/2013 | Changed CODES : See Characterists of Data |
| 10/01/2012 | Added to Database |

SOURCE

Malec JF, Hammond FM, Giacino JT, Whyte J, Wright J. (2012) A Structured Interview to Improve the Reliability and Psychometric Integrity of the Disability Rating Scale. Arch Phys Med & Rehabil, Epub 2012 Sep;93(9):1603-8.

Rappaport M, Hall KM, Hopkins K, Belleza T, Cope N. (1982). Disability Rating Scale for severe head trauma patients: Coma to community. Arch Phys Med & Rehabil, 63:118-123. rev 8/87. For an abstract of this article, see External Links



DEFINITION

4. 0 – 6.0 Instruction: I am now going to ask you several sets of questions regarding your awareness and understanding of several everyday self care activities. These questions focus on if you know how and when these activities should occur (ie, always,

VARIABLES

| Name | Description | Date Added | Date Removed |
|------------------|---|-------------------|--------------|
| drs6_1 | Dress and Groom Self Independently or Direct Someone Else | 10/01/2012 | |
| Question: | Can you dress and groom yourself independently and appropriately or direct someone else in these activities without help or reminders? | | |
| 1 | No (Go to 6.2) | 10/01/2012 | |
| 2 | Yes (Mark 4 = Always in 6.2. and 6.3., then skip to 7.0) | 10/01/2012 | |
| 6 | Variable Did Not Exist | 10/01/2012 | |
| 9 | Unknown | 10/01/2012 | |
| drs6_2 | Know To Bathe and Wash | 10/01/2012 | |
| Question: | Do you know how to bathe and wash? | | |
| 1 | Never | 10/01/2012 | |
| 2 | Some Of The Time | 10/01/2012 | |
| 3 | Most Of The Time | 10/01/2012 | |
| 4 | Always | 10/01/2012 | |
| 6 | Variable Did Not Exist | 10/01/2012 | |
| 9 | Unknown | 10/01/2012 | |
| drs6_3 | Understand To Get Dressed | 10/01/2012 | |
| Question: | Do you understand how to get dressed? | | |
| 1 | Never | 10/01/2012 | |
| 2 | Some Of The Time | 10/01/2012 | |
| 3 | Most Of The Time | 10/01/2012 | |
| 4 | Always | 10/01/2012 | |
| 6 | Variable Did Not Exist | 10/01/2012 | |
| 9 | Unknown | 10/01/2012 | |
| drs6_4 | Start and Finish Grooming Activities | 10/01/2012 | |
| Question: | Can you start and finish these grooming activities without prompting? | | |
| 1 | Never | 10/01/2012 | |
| 2 | Some Of The Time | 10/01/2012 | |
| 3 | Most Of The Time | 10/01/2012 | |
| 4 | Always | 10/01/2012 | |
| 6 | Variable Did Not Exist | 10/01/2012 | |
| 9 | Unknown | 10/01/2012 | |

HISTORY

| Date of Change | Description |
|----------------|---|
| 04/01/2013 | Changed CODES : See Characterists of Data |
| 10/01/2012 | Added to Database |

SOURCE

Malec JF, Hammond FM, Giacino JT, Whyte J, Wright J. (2012) A Structured Interview to Improve the Reliability and Psychometric Integrity of the Disability Rating Scale. Arch Phys Med & Rehabil, Epub 2012 Sep;93(9):1603-8.

Rappaport M, Hall KM, Hopkins K, Belleza T, Cope N. (1982). Disability Rating Scale for severe head trauma patients: Coma to community. Arch Phys Med & Rehabil, 63:118-123. rev 8/87. For an abstract of this article, see External Links

**DEFINITION**

7.0 Instruction: I am now going to ask you several sets of questions regarding the level of assistance you require during daily functioning. You should consider physical limitations, as well as cognitive, emotional, and behavioral limitations, when answer

VARIABLES

| Name | Description | Date Added | Date Removed |
|------------------|--|-------------------|---------------------|
| drs7_1 | Function Completely Independently | 10/01/2012 | |
| Question: | Do you function completely independently? That is, you do not require any physical assistance, supervision, equipment, devices, or reminders for cognitive, social, behavioral, emotional, and physical function? | | |
| 1 | No | 10/01/2012 | |
| 2 | Yes | 10/01/2012 | |
| 6 | Variable Did Not Exist | 10/01/2012 | |
| 9 | Unknown | 10/01/2012 | |
| drs7_2 | Require Special Aids or Equipment | 10/01/2012 | |
| Question: | Do you REQUIRE special aids or equipment such as a brace, walker, wheelchair, memory notebook, day planner, verbal reminders, prompts, cues, or alarm watch because of a disability? | | |
| 1 | No (Mark 1 = Never in 7.3. through 7.6c., then skip to 8.0) | 10/01/2012 | |
| 2 | Yes (Go to 7.3) | 10/01/2012 | |
| 6 | Variable Did Not Exist | 10/01/2012 | |
| 9 | Unknown | 10/01/2012 | |
| drs7_3 | Require Physical Assistance for Daily Needs | 10/01/2012 | |
| Question: | Do you require PHYSICAL assistance from another person to meet daily needs? | | |
| 1 | Never | 10/01/2012 | |
| 2 | Some of the Time | 10/01/2012 | |
| 3 | Most of the Time | 10/01/2012 | |
| 4 | Always | 10/01/2012 | |
| 6 | Variable Did Not Exist | 10/01/2012 | |
| 9 | Unknown | 10/01/2012 | |
| drs7_4 | Require Assistance in Tasks that Require Thinking Abilities | 10/01/2012 | |
| Question: | Do you require assistance from another person in tasks that require THINKING ABILITIES? | | |
| 1 | Never | 10/01/2012 | |
| 2 | Some of the Time | 10/01/2012 | |
| 3 | Most of the Time | 10/01/2012 | |
| 4 | Always | 10/01/2012 | |
| 6 | Variable Did Not Exist | 10/01/2012 | |
| 9 | Unknown | 10/01/2012 | |
| drs7_5 | Require Assistance to Manage Emotion and Behavior | 10/01/2012 | |
| Question: | Do you require assistance from another person to manage EMOTIONS AND BEHAVIOR? | | |
| 1 | Never | 10/01/2012 | |
| 2 | Some of the Time | 10/01/2012 | |
| 3 | Most of the Time | 10/01/2012 | |
| 4 | Always | 10/01/2012 | |
| 6 | Variable Did Not Exist | 10/01/2012 | |
| 9 | Unknown | 10/01/2012 | |
| drs7_6a | Take Care of Own Needs but also Need a Helper Close By | 10/01/2012 | |
| Question: | Do you take care of some of your needs but also need a helper who is always close by? | | |
| 1 | No | 10/01/2012 | |
| 2 | Yes | 10/01/2012 | |
| 6 | Variable Did Not Exist | 10/01/2012 | |
| 9 | Unknown | 10/01/2012 | |
| drs7_6b | Need Help With all Major Activities and Assistance All the Time | 10/01/2012 | |



| | | |
|------------------|--|------------|
| Question: | Do you need help with all major activities and the assistance of another person all the time? | |
| 1 | No | 10/01/2012 |
| 2 | Yes | 10/01/2012 |
| 6 | Variable Did Not Exist | 10/01/2012 |
| 9 | Unknown | 10/01/2012 |

| | | |
|----------------|--|-------------------|
| drs7_6c | Need 24-Hour Care and Not Able to Help with Own Care at All | 10/01/2012 |
|----------------|--|-------------------|

| | | |
|------------------|---|------------|
| Question: | Do you need 24-hour care and are not able to help with your own care at all? | |
| 1 | No | 10/01/2012 |
| 2 | Yes | 10/01/2012 |
| 6 | Variable Did Not Exist | 10/01/2012 |
| 9 | Unknown | 10/01/2012 |

NOTE

These questions evaluate if the person with TBI is able to live as s/he wishes and what kind of assistance s/he needs from others. Physical difficulties are considered in the scoring.

HISTORY

| <u>Date of Change</u> | <u>Description</u> |
|-----------------------|---|
| 04/01/2013 | Changed CODES : See Characterists of Data |
| 10/01/2012 | Added to Database |

SOURCE

Malec JF, Hammond FM, Giacino JT, Whyte J, Wright J. (2012) A Structured Interview to Improve the Reliability and Psychometric Integrity of the Disability Rating Scale. Arch Phys Med & Rehabil, Epub 2012 Sep;93(9):1603-8.

Rappaport M, Hall KM, Hopkins K, Belleza T, Cope N. (1982). Disability Rating Scale for severe head trauma patients: Coma to community. Arch Phys Med & Rehabil, 63:118-123. rev 8/87. For an abstract of this article, see External Links



VARIABLES

| <u>Name</u> | <u>Description</u> | <u>Date Added</u> | <u>Date Removed</u> |
|------------------|--|-------------------|---------------------|
| drs8_1 | Function with Complete Independence in Work/Social Situations | 10/01/2012 | |
| Question: | Can you function with complete independence in work or social situations? | | |
| | 1 Never | 10/01/2012 | |
| | 2 Some Of The Time | 10/01/2012 | |
| | 3 Most Of The Time | 10/01/2012 | |
| | 4 Always | 10/01/2012 | |
| | 6 Variable Did Not Exist | 10/01/2012 | |
| | 9 Unknown | 10/01/2012 | |
| drs8_2 | Understand, Remember, and Follow Directions | 10/01/2012 | |
| Question: | Can you understand, remember, and follow directions? | | |
| | 1 Never | 10/01/2012 | |
| | 2 Some Of The Time | 10/01/2012 | |
| | 3 Most Of The Time | 10/01/2012 | |
| | 4 Always | 10/01/2012 | |
| | 6 Variable Did Not Exist | 10/01/2012 | |
| | 9 Unknown | 10/01/2012 | |
| drs8_3 | Keep Track of Time, Schedules and Appointments | 10/01/2012 | |
| Question: | Can you keep track of time, schedules and appointments? | | |
| | 1 Never | 10/01/2012 | |
| | 2 Some Of The Time | 10/01/2012 | |
| | 3 Most Of The Time | 10/01/2012 | |
| | 4 Always | 10/01/2012 | |
| | 6 Variable Did Not Exist | 10/01/2012 | |
| | 9 Unknown | 10/01/2012 | |
| drs8_4 | Perform Variety of Jobs Chosen /Manage Home Independently/Participate in School Full Time | 10/01/2012 | |
| Question: | Perform in a wide variety of jobs of your choosing or manage a home independently or participate in school full-time | | |
| | 1 Certain Or Very Certain I Cannot (Go to 8.5.) | 10/01/2012 | |
| | 2 Uncertain (Go to 8.5.) | 10/01/2012 | |
| | 3 Certain Or Very Certain I Can (END) | 10/01/2012 | |
| | 6 Variable Did Not Exist | 10/01/2012 | |
| | 9 Unknown | 10/01/2012 | |
| drs8_5 | Successful but With Some Reduction in the Workload/Other Accommodations | 10/01/2012 | |
| Question: | Be successful at work, school or in home management with some reduction in the work load or with other accommodations due to disabilities | | |
| | 1 Certain Or Very Certain I Cannot (Go to 8.6.) | 10/01/2012 | |
| | 2 Uncertain (Go to 8.6.) | 10/01/2012 | |
| | 3 Certain Or Very Certain I Can (END) | 10/01/2012 | |
| | 6 Variable Did Not Exist | 10/01/2012 | |
| | 8 Not Applicable | 10/01/2012 | |
| | 9 Unknown | 10/01/2012 | |
| drs8_6 | Successful but With Limited Job Choices/School Courses | 10/01/2012 | |
| Question: | Be successful at work, school or in home management but with limited choices in jobs or school courses due to disabilities | | |
| | 1 Certain Or Very Certain I Cannot (Go to 8.7.) | 10/01/2012 | |
| | 2 Uncertain (Go to 8.7.) | 10/01/2012 | |
| | 3 Certain Or Very Certain I Can (END) | 10/01/2012 | |
| | 6 Variable Did Not Exist | 10/01/2012 | |
| | 8 Not Applicable | 10/01/2012 | |
| | 9 Unknown | 10/01/2012 | |
| drs8_7 | Able to Work at Home/Special Setting | 10/01/2012 | |



Question: Be able to work at home or in a special setting like a sheltered workshop in which the work is very routine and there is very frequent supervision and support

- 1 Certain Or Very Certain I Cannot (END) 10/01/2012
- 2 Uncertain (END) 10/01/2012
- 3 Certain Or Very Certain I Can (END) 10/01/2012
- 6 Variable Did Not Exist 10/01/2012
- 8 Not Applicable (END) 10/01/2012
- 9 Unknown 10/01/2012

NOTE

8.0 Instruction: The last set of questions looks at your ability to be employed, or work as a student or homemaker. You should consider how often you are able to perform these responsibilities without difficulty (ie, always, most of the time, some of the

HISTORY

| <u>Date of Change</u> | <u>Description</u> |
|-----------------------|---|
| 04/01/2013 | Changed CODES : See Characterists of Data |
| 10/01/2012 | Added to Database |

SOURCE

Malec JF, Hammond FM, Giacino JT, Whyte J, Wright J. (2012) A Structured Interview to Improve the Reliability and Psychometric Integrity of the Disability Rating Scale. Arch Phys Med & Rehabil, Epub 2012 Sep;93(9):1603-8.

Rappaport M, Hall KM, Hopkins K, Belleza T, Cope N. (1982). Disability Rating Scale for severe head trauma patients: Coma to community. Arch Phys Med & Rehabil, 63:118-123. rev 8/87. For an abstract of this article, see External Links



DEFINITION

Calculates years from Birth to Follow-Up

```

CASE
  WHEN DATEADD(year, DATEDIFF(year, Birth, Injury), Birth) >
    Injury THEN DATEDIFF(year, Birth, Injury) - 1
  ELSE DATEDIFF(year, Birth, Injury)
END AS AGE,

```

```

CASE
  WHEN
    (CASE
      WHEN DATEADD(year, DATEDIFF(year, Birth, Injury), Birth) >
        Injury THEN DATEDIFF(year, Birth, Injury) - 1
      ELSE DATEDIFF(year, Birth, Injury)
    END) >= 89 THEN 989
  ELSE
    (CASE
      WHEN DATEADD(year, DATEDIFF(year, Birth, Injury), Birth) >
        Injury THEN DATEDIFF(year, Birth, Injury) - 1
      ELSE DATEDIFF(year, Birth, Injury)
    END)
END AS AGENP

```

VARIABLES

| Name | Description | Date Added | Date Removed |
|---------------|---|-------------------|--------------|
| AGE2 | Age at Follow-Up | 01/01/1900 | |
| Question: | Age at Follow-Up | | |
| | 999 Unknown | 01/01/1900 | |
| AGE2NP | Age at Follow-Up: No PHI Version | 01/01/1900 | |
| Question: | Age at Follow-Up (No PHI Version) | | |
| | 989 89 Years Old or Older | 01/01/1900 | |
| | 999 Unknown | 01/01/1900 | |

HISTORY

| <u>Date of Change</u> | <u>Description</u> |
|-----------------------|--------------------|
|-----------------------|--------------------|



Form: 2

Computed YEAR of FOLLOWUP

Last updated:

Variable 908

DEFINITION

Calculates the followup year

DATEPART(yyyy, dbo.Mod2.Followup) AS FUYear

VARIABLES

| <u>Name</u> | <u>Description</u> | <u>Date Added</u> | <u>Date Removed</u> |
|-------------|--------------------|-------------------|---------------------|
| FUYEAR | Follow-Up Year | 01/01/1900 | |
| Question: | Follow-up Year | | |

HISTORY

| <u>Date of Change</u> | <u>Description</u> |
|-----------------------|--------------------|
|-----------------------|--------------------|



Form: 2

Computed FOLLOWUP IN WINDOW

Last updated:

Variable 912

DEFINITION

Calculates days outside of followup window. NOTE WCD = Window closing date, WSD = Window starting date

CASE

```

WHEN Followup < getdate() AND Followup >= WSD AND Followup <= WCD THEN 0
WHEN Followup < getdate() AND Followup < WSD THEN DateDiff([d], WSD, Followup)
WHEN Followup < getdate() AND Followup > WCD THEN DateDiff([d], WCD, Followup)

```

END AS INWINDOW

VARIABLES

| <u>Name</u> | <u>Description</u> | <u>Date Added</u> | <u>Date Removed</u> |
|-----------------|---|-------------------|---------------------|
| INWINDOW | Days Follow-Up Done Outside Window | 10/01/2009 | |
| Question: | Days follow-up were done outside window | | |
| | 0 Within Window | 10/01/2009 | |

HISTORY

| <u>Date of Change</u> | <u>Description</u> |
|-----------------------|--------------------|
|-----------------------|--------------------|



Form: 2

Computed DAYS FROM INJURY to FOLLOWUP

Last updated:

Variable 911

DEFINITION

Calculates days from Injury to Followup

CASE

WHEN Followup = '6-6-6666' THEN 66666

WHEN Followup = '7-7-7777' THEN 77777

WHEN Followup = '8-8-8888' OR Injury = '8-8-8888' THEN 88888

WHEN Followup = '9-9-9999' OR Injury = '9-9-9999' THEN 99999

ELSE DateDiff([d], Injury, Followup)

END AS INJURYFUP

VARIABLES

| <u>Name</u> | <u>Description</u> | <u>Date Added</u> | <u>Date Removed</u> |
|-------------|------------------------------|-------------------|---------------------|
| INJURYFUP | Days From Injury to Followup | 01/01/1900 | |

Question: Days From Injury to Followup

HISTORY

| <u>Date of Change</u> | <u>Description</u> |
|-----------------------|--------------------|
|-----------------------|--------------------|



Form: 2

Computed YEAR OF DEATH

Last updated:

Variable 901

DEFINITION

Calculates the year of death

```
DATEPART(yyyy, dbo.Mod2.DeathF) AS DEATHYEAR
```

VARIABLES

| <u>Name</u> | <u>Description</u> | <u>Date Added</u> | <u>Date Removed</u> |
|-------------|--------------------|-------------------|---------------------|
| DEATHYEAR | Year of Death | 01/01/1900 | |
| Question: | Year of Death | | |

HISTORY

| <u>Date of Change</u> | <u>Description</u> |
|-----------------------|--------------------|
|-----------------------|--------------------|



DEFINITION

Combines the current Education variable (FEducationYears) and the archived (Fschool) into a variable crosswalk

CASE

```

WHEN GEDF = 0 THEN SchoolF
WHEN EduYearsF >= 1 AND EduYearsF <= 8 AND
  (GEDF = 1 OR GEDF = 9 OR GEDF IS NULL) THEN 1
WHEN EduYearsF >= 9 AND EduYearsF <= 11 AND
  (GEDF = 1 OR GEDF = 9 OR GEDF IS NULL) THEN 2
WHEN EduYearsF >= 1 AND EduYearsF <= 11 AND GEDF = 2 THEN 2.5
WHEN EduYearsF = 12 THEN 3.5
WHEN EduYearsF = 13 OR EduYearsF = 15 THEN 5
WHEN EduYearsF = 14 THEN 6
WHEN EduYearsF = 16 OR EduYearsF = 17 THEN 7
WHEN EduYearsF = 18 OR EduYearsF = 19 THEN 8
WHEN EduYearsF = 20 THEN 9
WHEN EduYearsF = 77 THEN 77
WHEN EduYearsF IS NULL OR EduYearsF = 99 OR SchoolF IS NULL THEN 99
END AS EDUCATION2

```

VARIABLES

| <u>Name</u> | <u>Description</u> | <u>Date Added</u> | <u>Date Removed</u> |
|------------------|---------------------------|-------------------|---------------------|
| EDUCATION2 | Education at Follow-Up | 01/01/1900 | |
| Question: | Education Followup | | |
| | 1 8th Grade or Less | 01/01/1900 | |
| | 2 9 - 11 | 01/01/1900 | |
| | 2.5 GED | 01/01/1900 | |
| | 3 HS/GED | 01/01/1900 | |
| | 3.5 HS | 01/01/1900 | |
| | 4 Trade | 01/01/1900 | |
| | 5 Some College | 01/01/1900 | |
| | 6 Associate | 01/01/1900 | |
| | 7 Bachelors | 01/01/1900 | |
| | 8 Masters | 01/01/1900 | |
| | 9 Doctorate | 01/01/1900 | |
| | 77 Other | 01/01/1900 | |
| | 99 Unknown | 01/01/1900 | |

HISTORY

| <u>Date of Change</u> | <u>Description</u> |
|-----------------------|---|
| 01/15/2011 | Formula corrected - see CHARACTERISTICS OF DATA |



DEFINITION

Combines the current employment variable (Emp1F) with the archived variable (Empa) to create a crosswalk

CASE

```

WHEN Emp1F = 2 OR (Emp1F = 66 AND Archive.Empa = 2) THEN 2
WHEN Emp1F = 3 OR (Emp1F = 66 AND Archive.Empa = 3) THEN 3
WHEN Emp1F = 4 OR (Emp1F = 66 AND Archive.Empa = 4) THEN 4
WHEN Emp1F = 5 OR Emp1F = 16 OR (Emp1F = 66 AND Archive.Empa = 5) THEN 5
WHEN Emp1F = 7 OR (Emp1F = 66 AND Archive.Empa = 7) THEN 7
WHEN Emp1F = 8 OR (Emp1F = 66 AND Archive.Empa = 8) THEN 8
WHEN Emp1F = 9 OR Emp1F = 12 OR Emp1F = 15 OR
  (Emp1F = 66 AND Archive.Empa = 9) THEN 9
WHEN Emp1F = 10 OR Emp1F = 13 OR (Emp1F = 66 AND Archive.Empa = 10) THEN 10
WHEN Emp1F = 11 OR (Emp1F = 66 AND Archive.Empa = 11) THEN 11
WHEN Emp1F = 14 OR Emp1F = 55 OR (Emp1F = 66 AND Archive.Empa = 77) THEN 55
WHEN Emp1F = 88 OR (Emp1F = 66 AND Archive.Empa = 88) THEN 88
WHEN Emp1F = 99 OR Emp1F = 77 OR Emp1F IS NULL OR
  (Emp1F = 66 AND Archive.Empa = 99) OR
  (Emp1F = 66 AND Archive.Empa IS NULL) THEN 99

```

END AS EMPLOYMENT2

VARIABLES

| <u>Name</u> | <u>Description</u> | <u>Date Added</u> | <u>Date Removed</u> |
|--------------------|--------------------------------|-------------------|---------------------|
| EMPLOYMENT2 | Employment at Follow-Up | 01/01/1900 | |
| Question: | Employment Followup | | |
| 2 | Full Time Student | 01/01/1900 | |
| 3 | Part Time Student | 01/01/1900 | |
| 4 | Special Education | 01/01/1900 | |
| 5 | Employed | 01/01/1900 | |
| 7 | Homemaker | 01/01/1900 | |
| 8 | Employed | 01/01/1900 | |
| 9 | Retired | 01/01/1900 | |
| 10 | Unemployed | 01/01/1900 | |
| 11 | Volunteer Work | 01/01/1900 | |
| 77 | Other | 01/01/1900 | |
| 88 | Not Applicable | 01/01/1900 | |
| 99 | Unknown | 01/01/1900 | |

HISTORY

| <u>Date of Change</u> | <u>Description</u> |
|-----------------------|--------------------|
|-----------------------|--------------------|



DEFINITION

Calculates days from Injury to Date of First Employment

CASE

```

WHEN EmpFirst = '6-6-6666' THEN 66666
WHEN EmpFirst = '7-7-7777' THEN 77777
WHEN EmpFirst = '8-8-8888' OR Injury = '8-8-8888' THEN 88888
WHEN EmpFirst = '9-9-9999' OR Injury = '9-9-9999' THEN 99999
WHEN EmpFirst = '8-8-8899' THEN 88999
ELSE DateDiff([d], Injury, EmpFirst)
END AS INJURYEMP

```

VARIABLES

| <u>Name</u> | <u>Description</u> | <u>Date Added</u> | <u>Date Removed</u> |
|------------------|--|-------------------|---------------------|
| INJURYEMP | Days From Injury to Employment | 01/01/1900 | |
| Question: | Days From Injury to Employment | | |
| 66666 | Variable Did Not Exist | 01/01/1900 | |
| 77777 | Refused | 01/01/1900 | |
| 88888 | No Competitive Employment Since Injury | 01/01/1900 | |
| 88999 | Began Competitive Employment in Prior Follow-up Year | 01/01/1900 | |
| 99999 | Unknown When Competitive Employment Began | 01/01/1900 | |

HISTORY

| <u>Date of Change</u> | <u>Description</u> |
|-----------------------|--------------------|
|-----------------------|--------------------|



DEFINITION

Re-codes cases with no employment from 88=N/A to 0 weeks of employment

```

CASE
  WHEN EmpWkF = 88 THEN 0
  WHEN EmpWkF IS NULL THEN 99
  ELSE EmpWkF
END AS JobStability2

```

VARIABLES

| <u>Name</u> | <u>Description</u> | <u>Date Added</u> | <u>Date Removed</u> |
|---------------|---|-------------------|---------------------|
| JobStability2 | Weeks Employed in Paid Competitive Employment | 07/01/2001 | |
| Question: | Weeks of Paid Competitive Employment | | |
| 66 | Variable Did Not Exist | 07/01/2001 | |
| 77 | Refused | 07/01/2001 | |
| 99 | Unknown | 07/01/2001 | |

HISTORY

| <u>Date of Change</u> | <u>Description</u> |
|-----------------------|----------------------------|
| 01/15/2011 | Variable added to database |



Form: 2

Computed INCOME

Last updated:

Variable 909

DEFINITION

Computes a score based on archived variables and current.

CASE

```

WHEN IncFamily = 6 OR IncFamily = 7 OR IncFamily = 8 OR IncFamily = 9 OR
IncFamily = 10 OR IncFamily = 11 OR (IncFamily = 55 AND IncIndiv = 6) THEN 6
WHEN (IncFamily = 55 AND IncIndiv = 1) OR IncFamily = 1 THEN 1
WHEN (IncFamily = 55 AND IncIndiv = 2) OR IncFamily = 2 THEN 2
WHEN (IncFamily = 55 AND IncIndiv = 3) OR IncFamily = 3 THEN 3
WHEN (IncFamily = 55 AND IncIndiv = 4) OR IncFamily = 4 THEN 4
WHEN (IncFamily = 55 AND IncIndiv = 5) OR IncFamily = 5 THEN 5
WHEN (IncFamily = 55 AND IncIndiv = 9) OR IncFamily = 99 THEN 99
WHEN (IncFamily = 55 AND IncIndiv = 7) OR IncFamily = 66 THEN 66
WHEN IncFamily = 77 THEN 77
WHEN IncFamily = 88 THEN 88

```

END AS INCOME

VARIABLES

| <u>Name</u> | <u>Description</u> | <u>Date Added</u> | <u>Date Removed</u> |
|-------------|--------------------|-------------------|---------------------|
| INCOME | Income Follow-Up | 01/01/1900 | |
| Question: | Income Follow-up | | |

HISTORY

| <u>Date of Change</u> | <u>Description</u> |
|-----------------------|--------------------|
|-----------------------|--------------------|



DEFINITION

Calculates the Disability Rating Score.

To account for the half point variables both DRS2Low and DRS2High are calculated which rounds the ".5" accordingly

CASE

```

WHEN [Followup] = '06/06/6666' THEN 30
  WHEN DRSEyeF = 9 OR DRSEyeF IS NULL THEN 99
  WHEN DRsverF = 9 OR DRsverF IS NULL THEN 99
  WHEN DRSMotF = 9 OR DRSMotF IS NULL THEN 99
  WHEN DRsFeedF = 9.9 OR DRsFeedF IS NULL THEN 99
  WHEN DRStoiletF = 9.9 OR DRStoiletF IS NULL THEN 99
  WHEN DRSGroomF = 9.9 OR DRSGroomF IS NULL THEN 99
  WHEN DRsFuncF = 9.9 OR DRsFuncF IS NULL THEN 99
  WHEN DRSEmpF = 9.9 OR DRSEmpF IS NULL THEN 99
  WHEN DRSEyeF = 7 THEN 77
  WHEN DRsverF = 7 THEN 77
  WHEN DRSMotF = 7 THEN 77
  WHEN DRsFeedF = 7.7 THEN 77
  WHEN DRStoiletF = 7.7 THEN 77
  WHEN DRSGroomF = 7.7 THEN 77
  WHEN DRsFuncF = 7.7 THEN 77
  WHEN DRSEmpF = 7.7 THEN 77
  ELSE (DRSEyeF + DRsverF + DRSMotF + DRsFeedF + DRStoiletF + DRSGroomF + DRsFuncF + DRSEmpF)
END AS DRS2,

```

CASE

```

WHEN [Followup] = '06/06/6666' THEN 30
  WHEN DRSEyeF = 9 OR DRSEyeF IS NULL THEN 99
  WHEN DRsverF = 9 OR DRsverF IS NULL THEN 99
  WHEN DRSMotF = 9 OR DRSMotF IS NULL THEN 99
  WHEN DRsFeedF = 9.9 OR DRsFeedF IS NULL THEN 99
  WHEN DRStoiletF = 9.9 OR DRStoiletF IS NULL THEN 99
  WHEN DRSGroomF = 9.9 OR DRSGroomF IS NULL THEN 99
  WHEN DRsFuncF = 9.9 OR DRsFuncF IS NULL THEN 99
  WHEN DRSEmpF = 9.9 OR DRSEmpF IS NULL THEN 99
  WHEN DRSEyeF = 7 THEN 77
  WHEN DRsverF = 7 THEN 77
  WHEN DRSMotF = 7 THEN 77
  WHEN DRsFeedF = 7.7 THEN 77
  WHEN DRStoiletF = 7.7 THEN 77
  WHEN DRSGroomF = 7.7 THEN 77
  WHEN DRsFuncF = 7.7 THEN 77
  WHEN DRSEmpF = 7.7 THEN 77
  ELSE (DRSEyeF + DRsverF + DRSMotF + Round(DRsFeedF - 0.1, 0) + Round(DRStoiletF - 0.1, 0) +
    Round(DRSGroomF - 0.1, 0) + Round(DRsFuncF - 0.1, 0) + Round(DRSEmpF - 0.1, 0))
END AS DRS2Low,

```

CASE

```

WHEN [Followup] = '06/06/6666' THEN 30
  WHEN DRSEyeF = 9 OR DRSEyeF IS NULL THEN 99
  WHEN DRsverF = 9 OR DRsverF IS NULL THEN 99
  WHEN DRSMotF = 9 OR DRSMotF IS NULL THEN 99
  WHEN DRsFeedF = 9.9 OR DRsFeedF IS NULL THEN 99
  WHEN DRStoiletF = 9.9 OR DRStoiletF IS NULL THEN 99
  WHEN DRSGroomF = 9.9 OR DRSGroomF IS NULL THEN 99
  WHEN DRsFuncF = 9.9 OR DRsFuncF IS NULL THEN 99
  WHEN DRSEmpF = 9.9 OR DRSEmpF IS NULL THEN 99
  WHEN DRSEyeF = 7 THEN 77
  WHEN DRsverF = 7 THEN 77
  WHEN DRSMotF = 7 THEN 77

```



```

WHEN DRSFeedF = 7.7 THEN 77
WHEN DRSToiletF = 7.7 THEN 77
WHEN DRSGroomF = 7.7 THEN 77
WHEN DRSFuncF = 7.7 THEN 77
WHEN DRSEmpF = 7.7 THEN 77
ELSE (DRSEyeF + DRSVerF + DRSMotF + Round(DRSFeedF, 0) + Round(DRSToiletF, 0) +
      Round(DRSGroomF, 0) + Round(DRSFuncF, 0) + Round(DRSEmpF, 0))
END AS DRS2High

```

VARIABLES

| <u>Name</u> | <u>Description</u> | <u>Date Added</u> | <u>Date Removed</u> |
|-----------------|---|-------------------|---------------------|
| DRS2 | DRS at Follow-Up | 01/01/1900 | |
| Question: | Disability Rating Scale Follow-up | | |
| | 99 Unknown | 01/01/1900 | |
| DRS2High | DRS Follow-Up Round Up | 01/01/1900 | |
| Question: | Disability Rating Scale Followup Round Up | | |
| | 99 Unknown | 01/01/1900 | |
| DRS2Low | DRS Follow-Up Round Down | 01/01/1900 | |
| Question: | Disability Rating Scale Followup Round Down | | |
| | 99 Unknown | 01/01/1900 | |
| DRSPI | DRS Interview at Follow-Up | 10/01/2012 | |
| Question: | Disability Rating Scale Interview Follow-up | | |

HISTORY

| <u>Date of Change</u> | <u>Description</u> |
|-----------------------|--|
| 01/15/2011 | Added variables that score expired cases as 30 |



DEFINITION

Calculates a Motor FIM Score. If a score cannot be calculated using the current FIM Items, a check of the archived variable (F8, F9) is performed.

FIMMOT2 =

CASE

```

WHEN FIMFeedF IS NULL OR FIMFeedF = '9' THEN 999
WHEN FIMFeedF = '8' THEN 888
WHEN FIMGroomF IS NULL OR FIMGroomF = '9' THEN 999
WHEN FIMGroomF = '8' THEN 888
WHEN FIMBathF IS NULL OR FIMBathF = '9' THEN 999
WHEN FIMBathF = '8' THEN 888
WHEN FIMDrupF IS NULL OR FIMDrupF = '9' THEN 999
WHEN FIMDrupF = '8' THEN 888
WHEN FIMDrsdwnF IS NULL OR FIMDrsdwnF = '9' THEN 999
WHEN FIMDrsdwnF = '8' THEN 888
WHEN FIMToiletF IS NULL OR FIMToiletF = '9' THEN 999
WHEN FIMToiletF = '8' THEN 888
WHEN FIMBladMgtF IS NULL OR FIMBladMgtF = '9' THEN 999
WHEN FIMBladMgtF = '66' THEN 666
WHEN FIMBladMgtF = '8' THEN 888
WHEN FIMBwlMgtF IS NULL OR FIMBwlMgtF = '9' THEN 999
WHEN FIMBwlMgtF = '66' THEN 666
WHEN FIMBwlMgtF = '8' THEN 888
WHEN FIMBedTransF IS NULL OR FIMBedTransF = '9' THEN 999
WHEN FIMBedTransF = '8' THEN 888
WHEN FIMToilTransF IS NULL OR FIMToilTransF = '9' THEN 999
WHEN FIMToilTransF = '8' THEN 888
WHEN FIMTubTransF IS NULL OR FIMTubTransF = '9' THEN 999
WHEN FIMTubTransF = '8' THEN 888
WHEN FIMLocoF IS NULL OR FIMLocoF = '9' THEN 999
WHEN FIMLocoF = '8' THEN 888
WHEN FIMStairsF IS NULL OR FIMStairsF = '9' THEN 999
WHEN FIMStairsF = '8' THEN 888

```

```

ELSE (FIMFeedF + FIMGroomF + FIMBathF + FIMDrupF + FIMDrsdwnF
      + FIMToiletF + FIMBladMgtF + FIMBwlMgtF + FIMBedTransF
      + FIMToilTransF + FIMTubTransF + FIMLocoF + FIMStairsF)

```

END

VARIABLES

| <u>Name</u> | <u>Description</u> | <u>Date Added</u> | <u>Date Removed</u> |
|-------------|--------------------|-------------------|---------------------|
| FIMMOT2 | FIM Motor Followup | 01/01/1900 | |
| Question: | FIM Motor Followup | | |
| | 999 Unknown | | 01/01/1900 |

HISTORY

| <u>Date of Change</u> | <u>Description</u> |
|-----------------------|--------------------|
|-----------------------|--------------------|



DEFINITION

Calculates a Cognitive FIM Score

FIMCOG2 =

CASE

```

WHEN FIMCompF IS NULL OR FIMCompF = 9 THEN 999
WHEN FIMExpressF IS NULL OR FIMExpressF = 9 THEN 999
WHEN FIMSocialF IS NULL OR FIMSocialF = 9 THEN 999
WHEN FIMProbSivF IS NULL OR FIMProbSivF = 9 THEN 999
WHEN FIMMemF IS NULL OR FIMMemF = 9 THEN 999
WHEN FIMCompF = 8 THEN 888
WHEN FIMExpressF = 8 THEN 888
WHEN FIMSocialF = 8 THEN 888
WHEN FIMProbSivF = 8 THEN 888
WHEN FIMMemF = 8 THEN 888
ELSE (FIMCompF + FIMExpressF + FIMSocialF + FIMProbSivF + FIMMemF)

```

END

VARIABLES

| <u>Name</u> | <u>Description</u> | <u>Date Added</u> | <u>Date Removed</u> |
|-------------|-------------------------|-------------------|---------------------|
| FIMCOG2 | FIM Cognitive Follow-Up | 01/01/1900 | |
| Question: | FIM Cognitive Follow-up | | |
| | 999 Unknown | | 01/01/1900 |

HISTORY

| <u>Date of Change</u> | <u>Description</u> |
|-----------------------|--------------------|
|-----------------------|--------------------|



DEFINITION

Calculates the total score based on the calculated Cognitive and Motor Scores

CASE

```

WHEN FIM.FIMCOG2 = 666 OR
FIM.FIMCOG2 = 999 OR
FIM.FIMCOG2 IS NULL THEN 999
WHEN FIM.FIMMOT2 = 666 OR
FIM.FIMMOT2 = 999 OR
FIM.FIMMOT2 IS NULL THEN 999
ELSE FIM.FIMCOG2 + FIM.FIMMOT2
END AS FIMTOT2

```

VARIABLES

| <u>Name</u> | <u>Description</u> | <u>Date Added</u> | <u>Date Removed</u> |
|-------------|---------------------------|-------------------|---------------------|
| FIMTOT2 | FIM Total (New) Follow-Up | 01/01/1900 | |
| Question: | FIM Total (New) Follow-up | | |
| | 999 Unknown | | 01/01/1900 |

HISTORY

| <u>Date of Change</u> | <u>Description</u> |
|-----------------------|--------------------|
|-----------------------|--------------------|



DEFINITION

Calculates the PHQ9 Score

CASE

```

WHEN PHQPleasure = 9 OR PHQPleasure IS NULL OR
  PHQDown = 9 OR PHQDown IS NULL OR
  PHQSleep = 9 OR PHQSleep IS NULL OR
  PHQTired = 9 OR PHQTired IS NULL OR
  PHQEat = 9 OR PHQEat IS NULL OR
  PHQBad = 9 OR PHQBad IS NULL OR
  PHQConcentrate = 9 OR PHQConcentrate IS NULL OR
  PHQSlow = 9 OR PHQSlow IS NULL OR
  PHQDead = 9 OR PHQDead IS NULL THEN 99
WHEN PHQPleasure = 10 OR PHQDown = 10 OR PHQSleep = 10 OR PHQTired = 10 OR
  PHQEat = 10 OR PHQBad = 10 OR PHQConcentrate = 10 OR PHQSlow = 10 OR PHQDead = 10 THEN 88
WHEN PHQPleasure = 6 OR PHQDown = 6 OR PHQSleep = 6 OR PHQTired = 6 OR
  PHQEat = 6 OR PHQBad = 6 OR PHQConcentrate = 6 OR PHQSlow = 6 OR PHQDead = 6 THEN 66
ELSE (PHQPleasure + PHQDown + PHQSleep + PHQTired + PHQEat + PHQBad + PHQConcentrate + PHQSlow + PHQDead)
END AS PHQ9TOT

```

VARIABLES

| <u>Name</u> | <u>Description</u> | <u>Date Added</u> | <u>Date Removed</u> |
|------------------|---|-------------------|---------------------|
| PHQ9TOT | PHQ Total Score | 01/01/1900 | |
| Question: | Patient Health Questionnaire Total Score | | |
| | 66 Variable Did Not Exist | 10/01/2007 | |
| | 88 Not Applicable: No data from person with TBI | 10/01/2007 | |
| | 99 Unknown | 10/01/2007 | |

HISTORY

| <u>Date of Change</u> | <u>Description</u> |
|-----------------------|--------------------|
|-----------------------|--------------------|



DEFINITION

Using current variables, assess drinks per week, drinking category, binge drinking, and drug use to a final Problem Use variable.

```
CASE
  WHEN ALCAnyDrinkF = 1 THEN 0
  WHEN ALCWeekF > 0 AND ALCWeekF <= 7 AND ALCDrinksF < 66
    THEN ALCWeekF * ALCDrinksF
  WHEN ALCMonthF <= 31 AND ALCDrinksF < 66
    THEN ALCMonthF / 4.00 * ALCDrinksF * 1.00
  ELSE NULL
END as DrinksPerWeek2

CASE
  WHEN
    (CASE
      WHEN ALCAnyDrinkF = 1 THEN 0
      WHEN ALCWeekF > 0 AND ALCWeekF <= 7 AND ALCDrinksF < 66
        THEN ALCWeekF * ALCDrinksF
      WHEN ALCMonthF <= 31 AND ALCDrinksF < 66
        THEN (ALCMonthF / 4.00) * ALCDrinksF
      ELSE NULL
    END) = 0 THEN 0 /*Abstaining*/
  WHEN
    (CASE
      WHEN ALCAnyDrinkF = 1 THEN 0
      WHEN ALCWeekF > 0 AND ALCWeekF <= 7 AND ALCDrinksF < 66
        THEN ALCWeekF * ALCDrinksF
      WHEN ALCMonthF <= 31 AND ALCDrinksF < 66
        THEN (ALCMonthF / 4.00) * ALCDrinksF
      ELSE NULL
    END) < 3 AND ALCAnyDrinkF = 2 THEN 1 /*Light*/
  WHEN
    (CASE
      WHEN ALCAnyDrinkF = 1 THEN 0
      WHEN ALCWeekF > 0 AND ALCWeekF <= 7 AND ALCDrinksF < 66
        THEN ALCWeekF * ALCDrinksF
      WHEN ALCMonthF <= 31 AND ALCDrinksF < 66
        THEN (ALCMonthF / 4.00) * ALCDrinksF
      ELSE NULL
    END) BETWEEN 3 AND 14 AND ALCAnyDrinkF = 2 AND Sex = 2 THEN 2 /*Moderate*/
  WHEN
    (CASE
      WHEN ALCAnyDrinkF = 1 THEN 0
      WHEN ALCWeekF > 0 AND ALCWeekF <= 7 AND ALCDrinksF < 66
        THEN ALCWeekF * ALCDrinksF
      WHEN ALCMonthF <= 31 AND ALCDrinksF < 66 THEN (ALCMonthF / 4.00) * ALCDrinksF
      ELSE NULL
    END) BETWEEN 3 AND 7 AND ALCAnyDrinkF = 2 AND Sex = 1 THEN 2 /*Moderate*/
  WHEN
    (CASE
      WHEN ALCAnyDrinkF = 1 THEN 0
      WHEN ALCWeekF > 0 AND ALCWeekF <= 7 AND ALCDrinksF < 66
        THEN ALCWeekF * ALCDrinksF
      WHEN ALCMonthF <= 31 AND ALCDrinksF < 66 THEN (ALCMonthF / 4.00) * ALCDrinksF
      ELSE NULL
    END) > 14 AND ALCAnyDrinkF = 2 AND Sex = 2 THEN 3 /*Heavy*/
  WHEN
    (CASE
      WHEN ALCAnyDrinkF = 1 THEN 0
      WHEN ALCWeekF > 0 AND ALCWeekF <= 7 AND ALCDrinksF < 66
        THEN ALCWeekF * ALCDrinksF
      WHEN ALCMonthF <= 31 AND ALCDrinksF < 66 THEN (ALCMonthF / 4.00) * ALCDrinksF
```



```

ELSE NULL
END) > 7 AND ALCAnyDrinkF = 2 AND Sex = 1 THEN 3 /*Heavy*/
ELSE 9
END as DrinkingCategory2

```

```

CASE
WHEN ALC5DrinksF = 0 or ALC5DrinksF = 66 THEN 0
WHEN ALC5DrinksF = 1 THEN 1
WHEN ALC5DrinksF = 2 THEN 2
WHEN ALC5DrinksF BETWEEN 3 AND 33 THEN 3
ELSE 9
END as BingeDrinker2

```

```

CASE
WHEN DrugsF = 1 THEN 1
WHEN DrugsF = 2 THEN 2
ELSE 9
END as DrugUse2

```

```

CASE
WHEN ALCa.DrugUse2 = 2 OR
ALCa.BingeDrinker2 BETWEEN 1 AND 3 OR
ALCa.DrinkingCategory2 = 3 THEN 2
WHEN ALCa.DrugUse2 = 9 OR
ALCa.BingeDrinker2 = 9 OR
ALCa.DrinkingCategory2 = 9 THEN 9
ELSE 1
END AS PROBLEMU2

```

VARIABLES

| Name | Description | Date Added | Date Removed |
|-----------------------|-------------------------------------|------------|--------------|
| PROBLEMU2 | Substance Problem Use | 01/01/1900 | |
| Question: | Substance Problem Use | | |
| | 1 No | 01/01/1900 | |
| | 2 Yes | 01/01/1900 | |
| | 9 Unknown | 01/01/1900 | |
| BINGEDRINKER2 | Calculated Binge Drinker | 01/01/1900 | |
| Question: | Calculated Binge Drinker | | |
| | 0 No Binge Drinking | 01/01/1900 | |
| | 1 1 Time | 01/01/1900 | |
| | 2 2 Times | 01/01/1900 | |
| | 3 3 or More Times | 01/01/1900 | |
| | 9 Unknown | 01/01/1900 | |
| DRUGUSE2 | Drugs Use | 01/01/1900 | |
| Question: | Use of Drugs | | |
| | 1 No | 01/01/1900 | |
| | 2 Yes | 01/01/1900 | |
| | 9 Unknown | 01/01/1900 | |
| DRINKINGCATEG(| Calculated Drinking Category | 01/01/1900 | |
| Question: | Calculated drinking category | | |
| | 0 Abstaining | 01/01/1900 | |
| | 1 Light | 01/01/1900 | |
| | 2 Moderate | 01/01/1900 | |
| | 3 Heavy | 01/01/1900 | |
| | 9 Unknown | 01/01/1900 | |
| DRINKSPERWEEK | Calculated Drinks per Week | 01/01/1900 | |
| Question: | Calculated drinks per week | | |



Form: 2

Last updated:

Computed ALCOHOL and DRUG

Variable 914

HISTORY

Date of Change

Description



DEFINITION

Two different version of calculated SRS are available.

CASE

```
WHEN SRS = 0 THEN 0
WHEN SRS = 1 THEN 1
WHEN SRS >= 2 AND SRS <= 7 THEN 2
WHEN SRS >= 8 AND SRS <= 13 THEN 3
WHEN SRS = 99 OR SRS = 66 OR SRS IS NULL THEN 99
ELSE 99
```

END AS SRScal,

CASE

```
WHEN SRS = 0 THEN 0
WHEN SRS = 1 OR SRS = 2 THEN 2
WHEN SRS = 3 THEN 3
WHEN SRS = 4 THEN 4
WHEN SRS = 5 THEN 5
WHEN SRS = 6 THEN 6
WHEN SRS = 7 THEN 7
WHEN SRS = 8 THEN 8
WHEN SRS = 9 THEN 9
WHEN SRS = 10 THEN 10
WHEN SRS = 11 THEN 11
WHEN SRS = 12 THEN 12
WHEN SRS = 13 THEN 13
WHEN SRS = 66 THEN 99
```

END AS SRScal2

VARIABLES

Table with columns: Name, Description, Date Added, Date Removed. Rows include SRSCAL (Supervision Rating Scale 1) and SRSCAL2 (Supervision Rating Scale 2) with their respective question details and values.



Form: 2

Computed SUPERVISION RATING SCALE

Last updated:

Variable 915

| | | |
|----|--|------------|
| 10 | The Person with Brain Injury is Under Full Time Direct Supervision (At least one supervising person is always present and the supervising person checks on the person with brain injury more than once every thirty minutes) | 01/01/1900 |
| 11 | The Person Lives in Home where the Exits are Physically Controlled (A locked ward) | 01/01/1900 |
| 12 | Same as #11 but a Supervising Person is Designated to Provide Full Time Line-of-Sight Supervision (An escape watch or suicide watch) | 01/01/1900 |
| 13 | The Person with Brain Injury is in Physical Restraints | 01/01/1900 |
| 99 | Unknown | 01/01/1900 |

HISTORY

Date of Change

Description



DEFINITION

Calculated Satisfaction with life score

CASE

```

WHEN SWLSIdeal = 9 OR SWLSIdeal IS NULL OR
  SWLSCond = 9 OR SWLSCond IS NULL OR
  SWLSSAt = 9 OR SWLSSAt IS NULL OR
  SWLSImprt = 9 OR SWLSImprt IS NULL OR
  SWLSLiveOver = 9 OR SWLSLiveOver IS NULL THEN 99
WHEN SWLSIdeal = 8 OR SWLSCond = 8 OR SWLSSAt = 8 OR
  SWLSImprt = 8 OR SWLSLiveOver = 8 THEN 88
WHEN SWLSIdeal = 10 OR SWLSCond = 10 OR SWLSSAt = 10 OR
  SWLSImprt = 10 OR SWLSLiveOver = 10 THEN 77
WHEN SWLSIdeal = 0 OR SWLSCond = 0 OR SWLSSAt = 0 OR
  SWLSImprt = 0 OR SWLSLiveOver = 0 THEN 66
ELSE (SWLSIdeal + SWLSCond + SWLSSAt + SWLSImprt + SWLSLiveOver)
END AS SWLSTOT

```

VARIABLES

| Name | Description | Date Added | Date Removed |
|-----------|---|------------|--------------|
| SWLSTOT | SWLS Total Score | 01/01/1900 | |
| Question: | Satisfaction with Life Scale Total Score | | |
| | 66 Variable Did Not Exist | 01/01/1900 | |
| | 77 Not Applicable: No data from person with TBI | 01/01/1900 | |
| | 88 Not Collected this Follow-up Year | 01/01/1900 | |
| | 99 Unknown | 01/01/1900 | |

HISTORY

| Date of Change | Description |
|----------------|-------------|
|----------------|-------------|



Form: 2

Computed PART

Last updated:

Variable 917

DEFINITION

--PRTHome, PRTSchool, PRTWork,
[PART_Productivity] = dbo.PART_Productivity(PRTHome, PRTSchool, PRTWork),

--PRTSocFrnd, PRTSocFam, PRTEmotSup, PRTInternet, PRTSpouse, PRTRelation, PRTFriend,
[PART_Social] = dbo.PART_Social(PRTSocFrnd, PRTSocFam, PRTEmotSup, PRTInternet, PRTSpouse, PRTRelation, PRTFriend),

--PRTOutHse, PRTEatOut, PRTShop, PRTPlaySport, PRTMovie, PRTWtchSport, PRTReligion,
[PART_OutAbout] = dbo.PART_OutAbout(PRTOutHse, PRTEatOut, PRTShop, PRTPlaySport, PRTMovie, PRTWtchSport, PRTReligion),

PARTSummary = (dbo.PART_Productivity(PRTHome, PRTSchool, PRTWork) +
 dbo.PART_Social(PRTSocFrnd, PRTSocFam, PRTEmotSup, PRTInternet, PRTSpouse, PRTRelation, PRTFriend) +
 dbo.PART_OutAbout(PRTOutHse, PRTEatOut, PRTShop, PRTPlaySport, PRTMovie, PRTWtchSport, PRTReligion)) /3

VARIABLES

| <u>Name</u> | <u>Description</u> | <u>Date Added</u> | <u>Date Removed</u> |
|--------------------------------------|----------------------------|-------------------|---------------------|
| PART_OutAbout | Part OutAbout Subscale | 10/01/2007 | |
| Question: Part OutAbout Subscale | | | |
| PART_Productivity | Part Productivity Subscale | 10/01/2007 | |
| Question: Part Productivity Subscale | | | |
| PART_Social | Part Social Subscale | 10/01/2007 | |
| Question: Part Social Subscale | | | |
| PARTSummary | Part Summary Statistic | 10/01/2007 | |
| Question: Part Summary Statistic | | | |

HISTORY

| <u>Date of Change</u> | <u>Description</u> |
|-----------------------|--------------------|
|-----------------------|--------------------|



DEFINITION

Codes deceased cases as 1

CASE

WHEN Followup = '06/06/6666' THEN 1

WHEN GOSTotal IS NULL THEN 9

ELSE GOSTotal

END AS GOSE_wExpired

VARIABLES

| <u>Name</u> | <u>Description</u> | <u>Date Added</u> | <u>Date Removed</u> |
|------------------|---------------------------------|-------------------|---------------------|
| GOSE_wExpired | GOS-E Incl. Expired | 04/01/1998 | |
| Question: | GOS-E Incl. Expired | | |
| 0 | Variable Did Not Exist | 04/01/1998 | |
| 1 | Dead | 04/01/1998 | |
| 2 | Vegetative State (VS) | 04/01/1998 | |
| 3 | Lower Severe Disability (LSD) | 04/01/1998 | |
| 4 | Upper Severe Disability (USD) | 04/01/1998 | |
| 5 | Lower Moderate Disability (LMD) | 04/01/1998 | |
| 6 | Upper Moderate Disability (UMD) | 04/01/1998 | |
| 7 | Lower Good Recovery (LGR) | 04/01/1998 | |
| 8 | Upper Good Recovery (UGR) | 04/01/1998 | |
| 9 | Unknown | 04/01/1998 | |

CODE

- 1 Dead
- 2 Vegetative state
- 3 lower sever disability
- 4 Upper severe disability
- 5 Lower moderate disability
- 6 Upper moderate disability
- 7 Lower good recovery
- 8 Upper good recovery
- 9 Unknown
- 0 Variable did not exist

HISTORY

| <u>Date of Change</u> | <u>Description</u> |
|-----------------------|----------------------------|
| 01/15/2011 | Variable added to database |



DEFINITION

CASE

```

WHEN GADNervous = 9 OR GADNervous IS NULL OR
  GADCntrlWry = 9 OR GADCntrlWry IS NULL OR
  GADWorry = 9 OR GADWorry IS NULL OR
  GADRelax = 9 OR GADRelax IS NULL OR
  GADRestless = 9 OR GADRestless IS NULL OR
  GADAnnoy = 9 OR GADAnnoy IS NULL OR
  GADAfraid = 9 OR GADAfraid IS NULL THEN 99
WHEN GADNervous = 10 OR GADCntrlWry = 10 OR GADWorry = 10 OR GADRelax = 10 OR
  GADRestless = 10 OR GADAnnoy = 10 OR GADAfraid = 10 THEN 88
WHEN GADNervous = 6 OR GADCntrlWry = 6 OR GADWorry = 6 OR GADRelax = 6 OR
  GADRestless = 6 OR GADAnnoy = 6 OR GADAfraid = 6 THEN 66
ELSE (GADNervous + GADCntrlWry + GADWorry + GADRelax + GADRestless + GADAnnoy + GADAfraid)
END AS GAD7TOT

```

VARIABLES

| Name | Description | Date Added | Date Removed |
|-----------|--|------------|--------------|
| GAD7TOT | GAD Total Score | 04/01/2010 | |
| Question: | Generalized Anxiety Disorder Total Score | | |
| 66 | Variable Did Not Exist | 04/01/2010 | |
| 88 | Not Applicable: No data from person with TBI | 04/01/2010 | |
| 99 | Unknown | 04/01/2010 | |

HISTORY

| Date of Change | Description |
|----------------|-------------|
|----------------|-------------|



DEFINITION

```
[REHOSP] =
CASE
WHEN followup <= getdate() AND Rehosp1 = 8 THEN 1
WHEN followup <= getdate() AND Rehosp1 BETWEEN 0 AND 7 THEN 2
WHEN followup <= getdate() AND Rehosp1 = 9 THEN 2
WHEN followup <= getdate() AND Rehosp1 = 66 THEN 666
WHEN followup <= getdate() AND Rehosp1 = 99 THEN 999
WHEN followup <= getdate() AND Rehosp1 IS NULL THEN 999
ELSE 888
END
```

VARIABLES

| Name | Description | Date Added | Date Removed |
|-----------|-----------------------------|------------|--------------|
| REHOSP | Rehospitalized in Past Year | 01/01/1900 | |
| Question: | Rehospitalized in Past Year | | |
| 1 | No | 01/01/1900 | |
| 2 | Yes | 01/01/1900 | |
| 666 | Variable Did Not Exist | 01/01/1900 | |
| 888 | Not Applicable | 01/01/1900 | |
| 999 | Unknown | 01/01/1900 | |

CODE

- 1 No
- 2 Yes
- 666 Variable Did Not Exist
- 888 Not Applicable (Lost To Follow-Up, Expired, Withdrew, Etc.)
- 999 Unknown

HISTORY

| Date of Change | Description |
|----------------|----------------------------|
| 04/01/2012 | Variable added to database |

