

Traumatic Brain Injury (TBI)

Instruments User Manual



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1. Preface






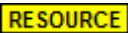
1.1. Typographical Conventions Used in the Manual

Throughout this document, the following fonts and other conventions are used:

Table 1 – Typographical Conventions

Font	Used for...	Examples:
Blue text, underlined	Hyperlink to another document or URL	ftp.fo-slc.med.va.gov
Green text, dotted underlining	Hyperlink within this document	See Release History for details.
Courier New	Patch names, VistA filenames	Patch names will be in this font
Franklin Gothic Demi	Keyboard keys Web application panel, pane, tab, and button names	< F1 >, < Alt >, < L > Other Registries panel [Delete] button
Microsoft Sans Serif	Software Application names	Traumatic Brain Injury (TBI)
Microsoft Sans Serif bold	Registry names	TBI
	Database field names	Mode field
	Report names	National Summary Report
	Organization and Agency Names	DoD, VA
Microsoft Sans Serif, 50% gray and italics	Read-only fields	<i>Procedures</i>
Times New Roman	Normal text	Information of particular interest
Times New Roman Italic	Text emphasis	“It is <i>very</i> important . . .”
	National and International Standard names	<i>International Statistical Classification of Diseases and Related Health Problems</i>
	Document names	<i>Traumatic Brain Injury (TBI) Registry User Manual</i>

Table 2 – Graphical Conventions

Graphic	Used for...
	Information of particular interest regarding the current subject matter.
	A tip or additional information that may be helpful to the user.
	A warning concerning the current subject matter.
	Information about the history of a function or operation; provided for reference only.
	Indicates an action or process which is optional
	Indicates a resource available either in this document or elsewhere

1.2. Command Buttons and Command Icons



A **command button** initiates an action. It is a rectangular “3-dimensional” shape with a label that specifies what action will be performed when the button is clicked.



Common examples are shown at left. Command buttons that end with three dots indicate that selecting the command may evoke a subsidiary window.



In some cases, a **command icon** performs the same function, but appears on the menu bar and has a plain, flat appearance. One example is shown at left.



In the text of this document, both **command button** and **command icon** names appear inside square brackets. Examples: **[Search]**, **[Save]**.

2. Background

The Veterans Health Administration (VHA) is charged with supporting the Presidential Task Force on Returning Global War on Terror Heroes. The Task Force has stated in the *Global War on Terror (GWOT)* report (recommendation P-7) that the Department of Veterans Affairs (VA) shall “create a ‘Traumatic Brain Injury’ Surveillance Center and Registry to monitor returning service members who have possibly sustained head injury and thus may potentially have a traumatic brain injury in order to provide early medical intervention.”

The Traumatic Brain Injury (TBI) Registry software applications collect data on the population of Veterans who participated in Operation Enduring Freedom/Operation Iraqi Freedom (OEF/OIF). These individuals need to be seen within 30 days for a comprehensive evaluation. Each facility can produce local reports (information related to patients evaluated and treated in their system).

The TBI Instruments are a set of comprehensive evaluation questionnaires (initial and follow up) designed to provide rehabilitation professionals with a vehicle by which they can assess patients and collect patient information. The information collected from these instruments is electronically transferred and stored in the form of a medical progress note in the patient’s electronic record. This progress note can be retrieved through the Computerized Patient Record System (CPRS).

The set of TBI Instruments include the Comprehensive TBI Evaluation, TBI Follow-Up Assessment, The Mayo-Portland Adaptability Inventory (MPAI), and the Rehabilitation and Reintegration Plan.

2.1. Related Documents

These related documents are available at <http://www.va.gov/vdl/application.asp?appid=198>

3. Software Details

3.1. Starting the Application

To start TBI Instruments, follow these steps:

1. Log into CPRS
2. On the tool bar, select **Tools > TBI Instruments**.



Note: TBI Instruments is equipped with a time-out security feature. If you receive any warning message, close the browser and repeat this process to log in.

3. The **TBI Instruments Patient Confirm** page opens. This confirms the patient name and SSN match in the TBI Registry.


The screenshot shows the 'Patient Confirm' screen within the 'TBI Instruments > Patient Confirm' section. At the top, there is a header with the United States Department of Veterans Affairs logo and the text 'Traumatic Brain Injury Registry'. Below the header, the breadcrumb 'TBI INSTRUMENTS > PATIENT CONFIRM' is displayed. The main content area contains a 'Patient' label followed by a text input field containing 'TBIPATIENT,ONE D'. Below this, a message states: 'To begin, verify that the patient name above is correct and enter the patient's SSN to confirm the correct patient is selected.' This is followed by the label 'Confirm Patient SSN(###-##-####) *:' and a text input field containing '000-00-9341'. At the bottom of the form is a 'Confirm' button.

Figure 1 – Patient Confirm Screen

3.2. Select Instrument Screen

The **TBI Instruments > Confirm Patient and Select Instrument** screen displays. Confirm the patient name and SSN match in the TBI Registry.

Select the appropriate Instrument you want to administer from the list by clicking the [Select] button.



UNITED STATES DEPARTMENT OF VETERANS AFFAIRS
Traumatic Brain Injury Registry

[Help](#)

TBI INSTRUMENTS > CONFIRM PATIENT AND SELECT INSTRUMENT

Patient

To begin, verify that the patient name above is correct and enter the patient's SSN to confirm the correct patient is selected.

Confirm Patient SSN(###-##-####) *:

Select the Instrument that you want to submit:

Instrument Name	
COMPREHENSIVE TBI EVALUATION	<input type="button" value="Select"/>
TBI FOLLOW-UP ASSESSMENT	<input type="button" value="Select"/>
THE MAYO-PORTLAND ADAPTABILITY INVENTORY (MPAI-4)	<input type="button" value="Select"/>
REHABILITATION AND REINTEGRATION PLAN	<input type="button" value="Select"/>

Figure 2 – Select Instrument

The **TBI Instruments > Instrument Associations** screen displays. The patient name and the Instrument Type previously selected are presented on the screen.

UNITED STATES DEPARTMENT OF VETERANS AFFAIRS
Traumatic Brain Injury Registry

TBI INSTRUMENTS > INSTRUMENT ASSOCIATIONS

Patient
[Patient Name]

Instrument Type:
COMPREHENSIVE TBI EVALUATION

Select Note Title *:
-- Select a Value --

Link to Consult (Optional):
-- Select a Value --

Link to Encounter Type

- Scheduled Clinic Appointment
- Hospital Admission
- Unscheduled or New Visit

Figure 3 – Instrument Associations

Select an appropriate Note Title from the **Select Note Title** drop-down list. Appropriate **Note Titles** for TBI patients begin with **TBI**. This selection is required.



Figure 4 – Select Note Drop-Down Box

If the note title selected is classified as a 'Consult Report', the user entry will complete a consult in CPRS. Use the **Link to Consult** drop-down list to select the appropriate consult to which the entry should be linked in CPRS. While this selection is optional, the user must make a selection from the list in order for the consult report to be linked to a consult in CPRS.

The screenshot displays the 'TBI INSTRUMENTS > INSTRUMENT ASSOCIATIONS' page. At the top left is the Department of Veterans Affairs seal. The header reads 'UNITED STATES DEPARTMENT OF VETERANS AFFAIRS Traumatic Brain Injury Registry'. Below the header is a navigation bar with 'TBI INSTRUMENTS > INSTRUMENT ASSOCIATIONS'. The main form area contains a 'Patient' field with the value 'TBIPATIENT, ONE D'. Underneath is the 'Instrument Type:' section with the value 'COMPREHENSIVE TBI EVALUATION'. The 'Select Note Title *:' section has a dropdown menu showing 'TBI <COMPREHENSIVE TBI EVALUATION>'. The 'Link to Consult (Optional):' section has a dropdown menu with a list of consults. The first option is '-- Select a Value --'. The second option is '-- Select a Value --'. The third option is 'Dec 15, 10 (pr) NEUROPSYCHOLOGY Cons Consult #: 639236'. The dropdown menu is open, showing these options. On the left side of the page, there is a vertical navigation menu with the letters 'C', 'L', 'S', and 'D'.

Figure 5 – Link to Consult

The **Link to Consult** drop-down list is populated with previously ordered consults for this patient. If the user selects a consult from the drop-down list, the data then entered via the selected TBI Instrument will be associated with the selected consult.

Use the radio button to select the appropriate **Link to Encounter Type** from the list.

If you select **Scheduled Clinic Appointment**, the application searches the period of time one month before today through one month after today. If any appointments are found, they are loaded into the **Select the Scheduled Clinic Appointment** drop down list. Select an appointment to proceed to the next step. If the user wishes to expand the date range for the search, the user can input new start and end dates and click **Get Appointments** and then proceed to the next step. This step associates the current instrument with the selected appointment.

The screenshot shows a web form titled "Link to Encounter Type". It contains four radio buttons: "Scheduled Clinic Appointment" (which is selected), "Hospital Admission", "Current Stay", and "Unscheduled or New Visit". Below this is a section titled "Select the Scheduled Clinic Appointment:" with a dropdown menu currently showing "-- Select a Value --". Underneath is a "Modify Appointment Filter" section with a text box containing instructions: "Your site's VistA system was searched to find scheduled clinic appointments. The period of time one month before today and one month after today was used for this search. If any appointments were found, these are loaded in the dropdown above. Select an appointment to proceed to the next step. If you would like to expand the date range to search, change the start and/or end dates and click 'Get Appointments', then select to proceed to next step." Below the text box are two input fields for "Start (mm/dd/yyyy):" and "End (mm/dd/yyyy):", followed by a "Get Appointments" button. At the bottom left is a "Continue" button.

Figure 6 – Instrument Associations > Link to Encounter

If you select **Hospital Admission**, the application searches for previous hospital stays. If any are found, they are loaded into the **Select the Hospital Admission** drop down list, and the user can make the appropriate selection. If no previous stays are found for the patient, the user must select a different encounter type from the **Link to Encounter Type** list in order to proceed.

The screenshot shows the same "Link to Encounter Type" form, but with "Hospital Admission" selected. The "Select the Hospital Admission:" dropdown menu is visible, showing "-- Select a Value --". The "Modify Appointment Filter" section is present but empty. Below it is a text box with instructions: "Your site's VistA system was searched for previous stays. If any were found they are loaded in the drop down above. If no previous stays are found for this patient, you must select a different choice in the section 'Link to Encounter Type' to proceed." Below the text box is a "Continue" button.

Figure 7 – Select Hospital Admission

If you select **Current Stay**, the next action required is to click **[Continue]** to move to the next screen.

Link to Encounter Type

- Scheduled Clinic Appointment
- Hospital Admission
- Current Stay
- Unscheduled or New Visit

Continue

Figure 8 – Current Stay

If you select **Unscheduled or New Visit**, the application searches to find all locations at your site which begin with **TBI**. If any locations are found, they are loaded into the **Location** drop down list. If the user wants to search using a different location, the user can change the default search string and click **[Get Locations]**. After selecting a location, the user can click **[Continue]** to move to the next screen.

Link to Encounter Type

- Scheduled Clinic Appointment
- Hospital Admission
- Current Stay
- Unscheduled or New Visit

Location:
 Historical -- Select a Value --

Location
Your site's VistA system was searched to find all locations at your site which begin with the search string "TBI". If any locations were found, they are loaded in the dropdown above. If you would like to use a different location, change the default search string below and click "Get Locations". After selecting a location, you can proceed to the next step.

Location Search String:

Continue

Figure 9 – Unscheduled or New Visit

4. Working full-time

I. Injury

4. How many serious OEF/OIF deployment related injuries have occurred?

0. None

2. Two

1. One

3. Three

4-A-1. Month of most serious injury:

4-A-2. Year of most serious injury:

4-B-1. Month of second serious injury:

4-B-2. Year of second serious injury:

4-C-1. Month of third serious injury:

4-C-2. Year of third serious injury:

5. Cause of injury:

5-A. Bullet

0. No

3. Yes, three episodes

1. Yes, one episode

4. Yes, four episodes

2. Yes, two episodes

5. Yes, five or more episodes

Figure 11 – Comprehensive TBI Evaluation Part 2

5-B. Vehicular

0. No
 3. Yes, three episodes
 1. Yes, one episode
 4. Yes, four episodes
 2. Yes, two episodes
 5. Yes, five or more episodes

5-C. Fall

0. No
 3. Yes, three episodes
 1. Yes, one episode
 4. Yes, four episodes
 2. Yes, two episodes
 5. Yes, five or more episodes

5-D. Blast:

0. No
 3. Yes, three episodes
 1. Yes, one episode
 4. Yes, four episodes
 2. Yes, two episodes
 5. Yes, five or more episodes

5-D-1. When a high-explosive bomb or IED goes off there is a "blast wave" which is a wave of highly compressed gas that may feel almost like being smashed into a wall. Do you remember experiencing this or were told that you experienced it?

0. No
 3. Yes, three episodes
 1. Yes, one episode
 4. Yes, four episodes
 2. Yes, two episodes
 5. Yes, five or more episodes

5-D-1-a. Estimated distance from closest blast:

1. Less than 10 feet
 3. Between 31 and 50 feet
 2. Between 10 and 30 feet
 4. Greater than 50 feet

5-D-2. This "blast wave" is followed by a wind in which particles of sand, debris, shrapnel, and fragments are moving rapidly. Were you close enough to the blast to be "peppered" or hit by such debris, shrapnel, or other items?

0. No
 3. Yes, three episodes

Figure 12 – Comprehensive TBI Evaluation Part 3

- 1. Yes, one episode
- 2. Yes, two episodes
- 4. Yes, four episodes
- 5. Yes, five or more episodes

5-D-3. Were you thrown to the ground or against some stationary object like a wall, vehicle or inside a vehicle by the explosion? (This is not asking if you "ducked to the ground" to protect yourself).

- 0. No
- 1. Yes, one episode
- 2. Yes, two episodes
- 3. Yes, three episodes
- 4. Yes, four episodes
- 5. Yes, five or more episodes

5-D-4. Did you experience any of the following injuries as a result of an explosive blast: burns, wounds, broken bones, amputations, breathing toxic fumes, or crush injuries from structures falling onto you?

- 0. No
- 1. Yes, one episode
- 2. Yes, two episodes
- 3. Yes, three episodes
- 4. Yes, four episodes
- 5. Yes, five or more episodes

5-D-5. Type of blast exposures: (Check all that apply)

- 1. Improved Explosive Device (IED)
- 2. Rocket Propelled Grenade (RPG)
- 3. Mortar
- 4. Grenade
- 5. Bomb
- 6. Other
- 7. Unknown

5-E. Blunt trauma other than from blast/vehicular injury, e.g., assault, blunt force, sports related or object hitting head.

- 0. No
- 1. Yes, one episode
- 2. Yes, two episodes
- 3. Yes, three episodes
- 4. Yes, four episodes
- 5. Yes, five or more episodes

6. Did you lose consciousness immediately after any of these experiences?

Figure 13 – Comprehensive TBI Evaluation Part 4

0. No

 4. Yes, four episodes
 1. Yes, one episode

 5. Yes, five or more episodes
 2. Yes, two episodes

 6. Uncertain
 3. Yes, three episodes

6-A. If yes, estimate the duration of longest period of loss of consciousness.

1. Very brief, probably less than 5 minutes

 4. Up to a full day(24 hours)
 2. Less than 30 minutes

 5. Up to a full week(7 days)
 3. Less than 6 hours

 6. More than one week

7. Did you have a period of disorientation or confusion immediately following the incident?

0. No

 4. Yes, four episodes
 1. Yes, one episode

 5. Yes, five or more episodes
 2. Yes, two episodes

 6. Uncertain
 3. Yes, three episodes

7-A. If yes, estimate the duration of longest period of disorientation or confusion.

1. Brief, probably less than 30 minutes

 4. Up to 1 month
 2. Up to a full day(24 hours)

 5. Up to 3 months
 3. Up to a full week(7 days)

 6. More than 3 months

8. Did you experience a period of memory loss immediately before or after the incident?

0. No

 4. Yes, four episodes
 1. Yes, one episode

 5. Yes, five or more episodes
 2. Yes, two episodes

 6. Uncertain
 3. Yes, three episodes

8-A. If yes, estimate the duration of longest period of memory loss (Post Traumatic Amnesia (PTA)).

Figure 14 – Comprehensive TBI Evaluation Part 5

0. No

1. Yes

14. Prior to your OEF/OIF deployment, did you experience a brain injury or concussion?

0. No

1. Yes

2. Uncertain

3. Not Assessed

15. Since your OEF/OIF deployment, have you experienced a brain injury or concussion?

0. No

1. Yes

2. Uncertain

3. Not Assessed

II. Symptoms

16. Please rate the following symptoms with regard to how they have affected you over the last 30 days. Use the following scale (Neurobehavioral Symptom Inventory):

None 0 - Rarely if ever present not a problem at all.

Mild 1 - Occasionally present but it does not disrupt activities, I can usually continue what I am doing; does not really concern me.

Moderate 2 - Often present, occasionally disrupts my activities; I can usually continue what I am doing with some effort; I am somewhat concerned.

Severe 3 - Frequently present and disrupts activities; I can only do things that are fairly simple or take little effort; I feel like I need help.

Very Severe 4 - Almost always present and I have been unable to perform at work, school, or home due to this problem; I probably cannot function without help.

16-A. Feeling dizzy:

0. None

1. Mild

2. Moderate

3. Severe

4. Very Severe

16-B. Loss of balance:

0. None

1. Mild

2. Moderate

3. Severe

4. Very Severe

16-C. Poor coordination, clumsy:

0. None

1. Mild

2. Moderate

3. Severe

4. Very Severe

Figure 16 – Comprehensive TBI Evaluation Part 7

16-D. Headaches:

0. None 1. Mild 2. Moderate 3. Severe 4. Very Severe

16-E. Nausea:

0. None 1. Mild 2. Moderate 3. Severe 4. Very Severe

16-F. Vision problems, blurring, trouble seeing:

0. None 1. Mild 2. Moderate 3. Severe 4. Very Severe

16-G. Sensitivity to light:

0. None 1. Mild 2. Moderate 3. Severe 4. Very Severe

16-H. Hearing difficulty:

0. None 1. Mild 2. Moderate 3. Severe 4. Very Severe

16-I. Sensitivity to noise:

0. None 1. Mild 2. Moderate 3. Severe 4. Very Severe

16-J. Numbness or tingling in parts of my body:

0. None 1. Mild 2. Moderate 3. Severe 4. Very Severe

16-K. Change in ability to taste and/or smell:

0. None 1. Mild 2. Moderate 3. Severe 4. Very Severe

16-L. Loss of appetite or increase appetite:

0. None 1. Mild 2. Moderate 3. Severe 4. Very Severe

Figure 17 – Comprehensive TBI Evaluation Part 8

16-M. Poor concentration, can't pay attention:

0. None 1. Mild 2. Moderate 3. Severe 4. Very Severe

16-N. Forgetfulness, can't remember things:

0. None 1. Mild 2. Moderate 3. Severe 4. Very Severe

16-O. Difficulty making decisions:

0. None 1. Mild 2. Moderate 3. Severe 4. Very Severe

16-P. Slowed thinking, difficulty getting organized, can't finish things:

0. None 1. Mild 2. Moderate 3. Severe 4. Very Severe

16-Q. Fatigue, loss of energy, getting tired easily

0. None 1. Mild 2. Moderate 3. Severe 4. Very Severe

16-R. Difficulty falling or staying asleep

0. None 1. Mild 2. Moderate 3. Severe 4. Very Severe

16-S. Feeling anxious or tense

0. None 1. Mild 2. Moderate 3. Severe 4. Very Severe

16-T. Feeling depressed or sad:

0. None 1. Mild 2. Moderate 3. Severe 4. Very Severe

16-U. Irritability, easily annoyed:

0. None 1. Mild 2. Moderate 3. Severe 4. Very Severe

Figure 18 – Comprehensive TBI Evaluation Part 9

16-V. Poor frustration tolerance, feeling easily overwhelmed by things:

0. None 1. Mild 2. Moderate 3. Severe 4. Very Severe

17. Overall, in the last 30 days how much did these difficulties (symptoms) interfere with your life:

0. Not at all 1. Mildly 2. Moderately 3. Severely 4. Extremely

17-A. In what areas of your life are you having these difficulties because of these symptoms?

III. Pain

18. In the last 30 days, have you had any problems with pain?

0. No 1. Yes

18-A. Location of pain: (Check all that apply)

<input type="checkbox"/> 0. Head/headaches	<input type="checkbox"/> 5. Low Back
<input type="checkbox"/> 1. Leg(s)	<input type="checkbox"/> 6. Upper Back
<input type="checkbox"/> 2. Arm(s)	<input type="checkbox"/> 7. Feet
<input type="checkbox"/> 3. Neck	<input type="checkbox"/> 8. Hand(s)
<input type="checkbox"/> 4. Shoulder(s)	<input type="checkbox"/> 9. Other(Describe in "Details of Plan")

18-B. In the last 30 days, how much did pain interfere with your life?

0. Not at all 1. Mildly 2. Moderately 3. Severely 4. Extremely

Figure 19 – Comprehensive TBI Evaluation Part 10

18-C. In what areas of your life are you having difficulties because of pain?

19. Since the time of your deployment related injury/injuries, are your overall symptoms

1. Better 2. Worse 3. About the same

IV. Conclusion

20. Additional history of present illness, social history, functional history, patient goals, and other relevant information.

21. Current medications:

Figure 20 – Comprehensive TBI Evaluation Part 11

22. Physical Examination:

23. Psychiatric Symptoms:

0. No 1. Yes 2. Not assessed

23-A. If yes or suspected/probable, symptoms of which disorders?

<input type="checkbox"/> 1. Depression	<input type="checkbox"/> 5. Drug abuse/dependence
<input type="checkbox"/> 2. PTSD	<input type="checkbox"/> 6. Psychotic disorder

Figure 21 – Comprehensive TBI Evaluation Part 12

0. No 1. Yes

29-I. New medication trial or change in dose of existing medication to address following symptoms:

- 0. Incoordination or dizziness (consider Meclizine)
- 1. Headaches or Visual Disturbance (consider Pain Medications)
- 2. Non-headache pain (consider Pain Medications)
- 3. Nausea/loss of appetite (consider Compazine, Appetite stimulants)
- 4. Poor attention, concentration or memory (consider Stimulants, SSRIs, anticholinesterase inhibitors)
- 5. Depression (consider SSRI, other antidepressants)
- 6. Anxiety or irritability (consider SSRI, Buspirone, Anti-Epileptic Agents, Quetiapine, Trazodone)
- 7. Insomnia (consider Trazodone, Ambien, Lunesta, Quetiapine)
- 8. Seizures (consider Anti-Epileptic agents)
- 9. Other

30. Details of plan:

If you are unable to finish at this time, or if you just want to save while entering, click Save Draft.

If you are finished with entry, and ready to save and format the note (you will get another chance to review prior to submit), click Save and Prepare Note.

If you want to return to CPRS press the Cancel Button. Do not use Internet browser back arrow.

Current User:

Figure 25 – Comprehensive TBI Evaluation Part 16

Select **[Save Draft]** to save the information entered even if it is incomplete or in the event the user wishes to review the data again prior to completing the note.

Select **[Save and Prepare Note]** to preview the note.

Click **[Cancel]** to reset the questionnaire.



Please review the content. If you need to make changes, click the Cancel button and edit the answers. If the content is correct, click the Submit Note button.

Note: once the note is submitted, it will no longer be editable in this tool and updates will need to be done within CPRS

The application reformats the information entered into the questionnaire and displays the resulting report. The instructions on the screen suggest the user review the newly formatted content. If the user wants to make changes to the material, the user should click **[Cancel]** button and re-enter the answers. If the content is correct, the user clicks the **[Submit Note]** button.

Be aware that once the note is submitted, it is no longer editable within the TBI Instruments application and any updates will have to be made within CPRS.

The clinician must sign the note in CPRS.

- 1. Unemployed looking for work
- 2. Unemployed not looking for work
- 3. Working part-time
- 4. Working full-time
- 5. Student
- 6. Volunteer
- 7. Homemaker

I. Injury

4. Experienced head injury since prior evaluation?

- 0. No
- 1. Yes

4-A. Month of most recent head injury:

4-B. Year of most recent head injury: _____

5. Cause Of Injury

5-A. Bullet

- 0. No
- 1. Yes, one episode
- 2. Yes, two episodes
- 3. Yes, three episodes
- 4. Yes, four episodes
- 5. Yes, five or more episodes

5-B. Vehicular

- 0. No
- 1. Yes, one episode
- 2. Yes, two episodes
- 3. Yes, three episodes
- 4. Yes, four episodes
- 5. Yes, five or more episodes

5-C. Fall

- 0. No
- 1. Yes, one episode
- 2. Yes, two episodes
- 3. Yes, three episodes
- 4. Yes, four episodes
- 5. Yes, five or more episodes

5-D. Blast

Figure 27 – TBI Follow-Up Assessment Screen Part 2

- 0. No
- 1. Yes, one episode
- 2. Yes, two episodes
- 3. Yes, three episodes
- 4. Yes, four episodes
- 5. Yes, five or more episodes

5-D-1. When a high-explosive bomb or IED goes off there is a "blast wave" which is a wave of highly compressed gas that may feel almost like being smashed into a wall. Do you remember experiencing this or were told that you experienced it?

- 0. No
- 1. Yes, one episode
- 2. Yes, two episodes
- 3. Yes, three episodes
- 4. Yes, four episodes
- 5. Yes, five or more episodes

5-D-1-a. Estimated distance from closest blast:

- 1. Less than 10 feet
- 2. Between 10 and 30 feet
- 3. Between 30 and 50 feet
- 4. Greater than 50 feet

5-D-2. This "blast wave" is followed by a wind in which particles of sand, debris, shrapnel, and fragments are moving rapidly. Were you close enough to the blast to be "peppered" or hit by such debris, shrapnel, or other items?

- 0. No
- 1. Yes, one episode
- 2. Yes, two episodes
- 3. Yes, three episodes
- 4. Yes, four episodes
- 5. Yes, five or more episodes

5-D-3. Were you thrown to the ground or against some stationary object like a wall, vehicle or inside a vehicle by the explosion? (This is not asking if you ducked to the ground to protect yourself.)

- 0. No
- 1. Yes, one episode
- 2. Yes, two episodes
- 3. Yes, three episodes
- 4. Yes, four episodes
- 5. Yes, five or more episodes

5-D-4. Did you experience any of the following injuries as a result of an explosive blast: burns, wounds, broken bones, amputations, breathing toxic fumes, or crush injuries from structures falling onto you?

- 0. No
- 1. Yes, one episode
- 2. Yes, two episodes
- 3. Yes, three episodes
- 4. Yes, four episodes
- 5. Yes, five or more episodes

5-D-5. Type of Blast Exposures (Check all that apply):

Figure 28 – TBI Follow-Up Assessment Screen Part 3

- 1. Improvised Explosive Device (IED)
- 2. Rocket Propelled Grenade (RPG)
- 3. Mortar
- 4. Grenade
- 5. Bomb
- 6. Other
- 7. Unknown

5-E. Blunt trauma other than from blast/vehicular injury, e.g., assault, blunt force, sports related or object hitting head:

- 0. No
- 1. Yes, one episode
- 2. Yes, two episodes
- 3. Yes, three episodes
- 4. Yes, four episodes
- 5. Yes, five or more episodes

6. Did you lose consciousness immediately after any of these experiences?

- 0. No
- 1. Yes, one episode
- 2. Yes, two episodes
- 3. Yes, three episodes
- 4. Yes, four episodes
- 5. Yes, five or more episodes
- 6. Uncertain

6-A. If yes, estimate the duration of longest period of loss of consciousness

- 1. Very brief, probably less than 5 minutes
- 2. Less than 30 minutes
- 3. Less than 6 hours
- 4. Up to a full day (24 hours)
- 5. Up to a full week (7 days)
- 6. More than one week

7. Did you have a period of disorientation or confusion immediately following the incident?

- 0. No
- 1. Yes, one episode
- 2. Yes, two episodes
- 3. Yes, three episodes
- 4. Yes, four episodes
- 5. Yes, five or more episodes
- 6. Uncertain

7-A. If yes, estimate the duration of longest period of disorientation or confusion.

- 1. Brief, probably less than 30 minutes
- 2. Up to a full day (24 hours)
- 3. Up to a full week (7 days)
- 4. Up to one 1 month
- 5. Up to 3 months
- 6. More than 3 months

Figure 29 – TBI Follow-Up Assessment Screen Part 4

8. Did you experience a period of memory loss immediately before or after the incident?

0. No
 1. Yes, one episode
 2. Yes, two episodes
 3. Yes, three episodes
 4. Yes, four episodes
 5. Yes, five or more episodes
 6. Uncertain

8-A. If yes, estimate the duration of longest period of memory loss (Post Traumatic Amnesia (PTA)).

1. Brief, probably less than 30 minutes
 2. Up to a full day (24 hours)
 3. Up to a full week (7 days)
 4. Up to one 1 month
 5. Up to 3 months
 6. More than 3 months

9. During this/these experience(s), did an object penetrate your skull/cranium:

0. No, non-penetrating
 1. Yes, penetrating

10. If you have had a new injury, have you seen any health care providers (doctors/therapists) as a result of the new head injury?

0. No
 1. Yes, in the past
 2. Yes, currently

10-A. Did the provider you saw for your new injury change your medications in any way (new type or change in dosage)?

0. No
 1. Yes, new type of medication
 2. Yes, change in dosage

II. Symptoms

11. Please rate the following symptoms with regard to how they have affected you over the last 30 days. Use the following scale (Neurobehavioral Symptom Inventory):

None 0 - Rarely if ever present not a problem at all.

Mild 1 - Occasionally present but it does not disrupt activities, I can usually continue what I am doing; does not really concern me.

Moderate 2 - Often present, occasionally disrupts my activities; I can usually continue what I am doing with some effort; I am somewhat concerned.

Severe 3 - Frequently present and disrupts activities; I can only do things that are fairly simple or take little effort; I feel like I need help.

Very Severe 4 - Almost always present and I have been unable to perform at work, school, or home due to this problem; I probably cannot function without help.

Figure 30 – TBI Follow-Up Assessment Screen Part 5

11-A. Feeling dizzy:

0. None 1. Mild 2. Moderate 3. Severe 4. Very Severe

11-B. Loss of Balance:

0. None 1. Mild 2. Moderate 3. Severe 4. Very Severe

11-C. Poor coordination, clumsy:

0. None 1. Mild 2. Moderate 3. Severe 4. Very Severe

11-D. Headaches:

0. None 1. Mild 2. Moderate 3. Severe 4. Very Severe

11-E. Nausea:

0. None 1. Mild 2. Moderate 3. Severe 4. Very Severe

11-F. Vision problems, blurring, trouble seeing:

0. None 1. Mild 2. Moderate 3. Severe 4. Very Severe

11-G. Sensitivity to light:

0. None 1. Mild 2. Moderate 3. Severe 4. Very Severe

11-H. Hearing difficulty:

0. None 1. Mild 2. Moderate 3. Severe 4. Very Severe

11-I. Sensitivity to noise:

0. None 1. Mild 2. Moderate 3. Severe 4. Very Severe

11-J. Numbness or tingling on parts of my body:

0. None 1. Mild 2. Moderate 3. Severe 4. Very Severe

11-K. Change in taste and/or smell:

Figure 31 – TBI Follow-Up Assessment Screen Part 6

0. None
 1. Mild
 2. Moderate
 3. Severe
 4. Very Severe

11-L. Loss of appetite or increase appetite:

0. None
 1. Mild
 2. Moderate
 3. Severe
 4. Very Severe

11-M. Poor concentration, can't pay attention:

0. None
 1. Mild
 2. Moderate
 3. Severe
 4. Very Severe

11-N. Forgetfulness, can't remember things:

0. None
 1. Mild
 2. Moderate
 3. Severe
 4. Very Severe

11-O. Difficulty making decisions:

0. None
 1. Mild
 2. Moderate
 3. Severe
 4. Very Severe

11-P. Slowed thinking, difficulty getting organized, can't finish things:

0. None
 1. Mild
 2. Moderate
 3. Severe
 4. Very Severe

11-Q. Fatigue, loss of energy, getting tired easily:

0. None
 1. Mild
 2. Moderate
 3. Severe
 4. Very Severe

11-R. Difficulty falling or staying asleep:

0. None
 1. Mild
 2. Moderate
 3. Severe
 4. Very Severe

11-S. Feeling anxious or tense:

0. None
 1. Mild
 2. Moderate
 3. Severe
 4. Very Severe

11-T. Feeling depressed or sad:

0. None
 1. Mild
 2. Moderate
 3. Severe
 4. Very Severe

11-U. Irritability, easily annoyed:

Figure 32 – TBI Follow-Up Assessment Screen Part 7

1. Symptom resolution (patient is currently not reporting symptoms)
 2. Traumatic Brain Injury (TBI) residual problems
 3. Behavioral Health conditions (e.g., PTSD, depression, etc.)
 4. A combination of TBI and Behavioral Health condition(s)
 5. Other condition not related to TBI or Behavioral Health condition(s)

V. Plan

20. Follow-up Plan:

1. Services will be provided within VA healthcare system
 2. Services will be provided outside VA
 3. Patient will receive Both VA and Non-VA Services
 4. No services needed
 5. Patient refused/not interested in further services
 6. Return to clinic for follow up appointment

21. Details Of Plan:

If you are unable to finish at this time, or if you just want to save while entering, click Save Draft.

If you are finished with entry, and ready to save and format the note (you will get another chance to review prior to submit), click Save and Prepare Note.

If you want to return to CPRS press the Cancel Button. Do not use Internet browser back arrow.

Current User:

Figure 35 – TBI Follow-Up Assessment Screen Part 10

Select **[Save Draft]** to save the information entered even if it is incomplete or in the event the user wishes to review the data again prior to completing the note.

Select **[Save and Prepare Note]** to preview the note.

Click **[Cancel]** to reset the questionnaire.



Please review the content. If you need to make changes, click the Cancel button and edit the answers. If the content is correct, click the Submit Note button.

Note: once the note is submitted, it will no longer be editable in this tool and updates will need to be done within CPRS

The application reformats the information entered into the questionnaire and displays the resulting report. The instructions on the screen suggest the user review the newly formatted content. If the user wants to make changes to the material, the user should click **[Cancel]** button and re-enter the answers. If the content is correct, the user clicks the **[Submit Note]** button.

Be aware that once the note is submitted, it is no longer editable within the TBI Instruments application and any updates will have to be made within CPRS.

The clinician must sign the note in CPRS.

3.2.3. Mayo-Portland Adaptability Inventory (MPAI)

MPAI was designed:

1. To assist in the clinical evaluation of people during the postacute (posthospital) period following acquired brain injury (ABI),
2. To assist in the evaluation of rehabilitation programs designed to serve these people, and
3. To better understand the long-term outcomes of ABI.

Evaluation and rating of each of the areas designated by MPAI items assures that the most frequent and important sequelae of ABI are considered for rehabilitation planning or other clinical interventions. MPAI items represent the range of physical, cognitive, emotional, behavioral, and social problems that people may encounter after ABI. MPAI items also provide an assessment of major obstacles to community integration which may result directly from ABI as well as problems in the social and physical environment. Periodic re-evaluation with MPAI during postacute rehabilitation or other intervention provides documentation of progress and of the efficacy and appropriateness of the intervention. Research that examines the responses to the MPAI by individuals with longstanding ABI and by their caregivers and close acquaintances helps to answer questions about the future of those who are newly injured, and their long-term medical, social and economic needs.

Select the appropriate response for each patient. All items are required, except where noted.

Patient

Patient:

SSN:

Facility:

Mayo-Portland Adaptability Inventory-4

Participation Index (M2PI)

Muriel D. Lezak, PhD, ABPP & James F. Malec, PhD, ABPP

Used as VA Interdisciplinary Team Assessment of Community Functioning

Note Type:

Initial

Person Reporting:

Single Professional

Professional Consensus

Person with Brain Injury

Significant Other

Below each item, select the number that best describes the level at which the person being evaluated experiences problems. Mark the greatest level of problem that is appropriate. Problems that interfere rarely with daily or valued activities, that is, less than 5% of the time, should be considered not to interfere. Write comments about specific items at the end of the rating scale.

1. Initiation: Problems getting started on activities without prompting

0 None

1 Mild problem but does not interfere with activities; may use assistive device or medication

2 Mild problem; interferes with activities 5-24% of the time

3 Moderate problem; interferes with activities 25-75% of the time

4 Severe problem; interferes with activities more than 75% of the time

Comment

Item #1:

2. Social contact with friends, work associates, and other people who are not family, significant others, or professionals

0 Normal involvement with others

1 Mild difficulty in social situations but maintains normal involvement with others

2 Mildly limited involvement with others (75-95% of normal interaction for age)

Figure 36 – Mayo Portland Adaptability Inventory Part 1

- 3 Moderately limited involvement with others (25-74% of normal interaction for age)
- 4 No or rare involvement with others (less than 25% of normal interaction for age)

Comment _____

Item #2:

3. Leisure and recreational activities

- 0 Normal participation in leisure activities for age
- 1 Mild difficulty in these activities but maintains normal participation
- 2 Mildly limited participation (75-95% of normal participation for age)
- 3 Moderately limited participation (25-74% of normal participation for age)
- 4 No or rare participation (less than 25% of normal participation for age)

Comment _____

Item #3:

4. Self-care: Eating, dressing, bathing, hygiene

- 0 Independent completion of self-care activities
- 1 Mild difficulty, occasional omissions or mildly slowed completion of self-care; may use assistive device or require occasional prompting
- 2 Requires a little assistance or supervision from others (5-24% of the time) including frequent prompting
- 3 Requires moderate assistance or supervision from others (25-75% of the time)
- 4 Requires extensive assistance or supervision from others (more than 75% of the time)

Comment _____

Item #4:

5. Residence: Responsibilities of independent living and homemaking (such as meal preparation, home repairs and maintenance, personal health maintenance beyond basic hygiene including medical management) but not including managing money (see # 8)

- 0 Independent; living without supervision or concern from others
- 1 Living without supervision but others have concerns about safety or managing responsibilities
- 2 Requires a little assistance or supervision from others (5-24% of the time)
- 3 Requires moderate assistance or supervision from others (25-75% of the time)

Figure 37 – Mayo Portland Adaptability Inventory Part 2

4 Requires extensive assistance or supervision from others (more than 75% of the time)

Comment
Item #5: _____

6. Transportation

0 Independent in all modes of transportation including independent ability to operate a personal motor vehicle

1 Independent in all modes of transportation, but others have concerns about safety

2 Requires a little assistance or supervision from others (5-24% of the time); cannot drive

3 Requires moderate assistance or supervision from others (25-75% of the time); cannot drive

4 Requires extensive assistance or supervision from others (more than 75% of the time); cannot drive

Comment
Item #6: _____

7A. Paid Employment: Rate either item 7A or 7B to reflect the primary desired social role. Do not rate both. Rate 7A if the primary social role is paid employment. If another social role is primary, rate only 7B. For both 7A and 7B, "support" means special help from another person with responsibilities (such as, a job coach or shadow, tutor, helper) or reduced responsibilities. Modifications to the physical environment that facilitate employment are not considered as support.

0 Full-time (more than 30 hrs/wk) without support

1 Part-time (3 to 30 hrs/ wk) without support

2 Full-time or part-time with support

3 Sheltered work


4 Unemployed; employed less than 3 hours per week

Comment
Item #7A: _____

7B. Other employment: Involved in constructive, role-appropriate activity other than paid employment

Primary Desired Role: Check only one to indicate primary desired social role for question 7B:

Figure 38 – Mayo Portland Adaptability Inventory Part 3

	<p>Note: You can only answer one of Item 7A or 7B. Refer to Figure 19 for the rest of item 7B.</p>
---	---

Childrearing/care-giving
 Homemaker, no childrearing or care-giving
 Student
 Volunteer
 Retired (Check retired only if over age 60; if unemployed, retired as disabled and under age 60, indicate "Unemployed" for item 7A.)

0 Full-time (more than 30 hrs/wk) without support; full-time course load for students
 1 Part-time (3 to 30 hrs/ wk) without support
 2 Full-time or part-time with support
 3 Activities in a supervised environment other than a sheltered workshop
 4 Inactive; involved in role-appropriate activities less than 3 hours per week

Comment
 Item #7B:

8. Managing money and finances: Shopping, keeping a check book or other bank account, managing personal income and investments

0 Independent, manages money without supervision or concern from others
 1 Manages money independently, but others have concerns
 2 Requires mild assistance or supervision from others (5-24% of the time)
 3 Requires moderate assistance or supervision from others (25-75% of the time)
 4 Requires extensive assistance or supervision from others (more than 75% of the time)

Comment
 Item #8:

Standard N/A
 T-score:

If you are unable to finish at this time, or if you just want to save while entering, click Save Draft.

If you are finished with entry, and ready to save and format the note (you will get another chance to review prior to submit), click Save and Prepare Note.

Figure 39 – Mayo Portland Adaptability Inventory Part 4

Select **[Save Draft]** to save the information entered even if it is incomplete or in the event the user wishes to review the data again prior to completing the note.

Select **[Save and Prepare Note]** to preview the note.

Click **[Cancel]** to reset the questionnaire.



Please review the content. If you need to make changes, click the Cancel button and edit the answers. If the content is correct, click the Submit Note button.

Note: once the note is submitted, it will no longer be editable in this tool and updates will need to be done within CPRS

The application reformats the information entered into the questionnaire and displays the resulting report. The instructions on the screen suggest the user review the newly formatted content. If the user wants to make changes to the material, the user should click **[Cancel]** button and re-enter the answers. If the content is correct, the user clicks the **[Submit Note]** button.

Be aware that once the note is submitted, it is no longer editable within the TBI Instruments application and any updates will have to be made within CPRS.

The clinician must sign the note in CPRS.

3.2.4. Rehabilitation and Reintegration Plan

The Rehabilitation and Community Reintegration Care plan also manages the ongoing and emerging rehabilitation and psychosocial needs of Veterans with polytrauma and TBI. This includes ongoing follow up and treatment, case management, coordination of services, monitoring the implementation of the treatment plan, overseeing the quality and intensity of VA and non-VA services, and providing education and support for patients and caregivers.

Select the appropriate response for each patient.

3. Summary of Interdisciplinary Treatment (IDT) evaluations: (Check all that apply)

- Assistive technologist or rehabilitation engineer
- Blind rehabilitation specialist
- Driver rehabilitation specialist
- Kinesiotherapist
- Neurologist
- Occupational therapist
- Orthotist or prosthetist
- Physical therapist
- Psychiatrist
- Psychologist/neuropsychologist
- Recreation therapist
- Rehabilitation nurse
- Rehabilitation physician
- Social worker/case manager
- Speech language pathologist
- Vocational rehabilitation
- Other

Additional Comments:

4. Interdisciplinary Treatment Team Goals

- Symptom reduction (based on symptoms reported in current problems section)
- Initiation
- Social contact (friends, work associates and other people outside of family)
- Leisure and recreational activities
- Self-care (eating, dressing, bathing, hygiene)
- Independent living and homemaking (meal preparation, home repairs, maintenance)

Figure 41 – Rehabilitation and Reintegration Plan Part 2

Transportation
 Employment/education
 Managing money and finances
 Other

5. Rehabilitation and reintegration plan: (Types of services, frequency/duration of treatment, planned follow up, etc.)

Audiology
 Behavioral health
 Dietician
 Drivers rehab
 Low vision rehabilitation specialist
 Optometry/ophthalmology
 Orthopedics
 Pain management
 Radiology/imaging
 Vocational rehabilitation
 Other

7. Proposed timeframe for IDT follow up conference

1 Week
 2 Weeks
 1 Month
 2 Months
 Other

Plan of care communicated

Yes
 No

Figure 42 – Rehabilitation and Reintegration Plan Part 3

8. Physician responsible for managing the treatment plan: (Name and telephone number)

|

9. Polytrauma-TBI Case Manager responsible for monitoring implementation: (Name and telephone number)

|

10. Other case management support (Optional): (Name and telephone number)

Military case manager

Transition patient advocate

OEF/OIF case manager

Other

11. Date care plan will be reviewed

|

12. Additional Information (Optional)

|

If you are unable to finish at this time, or if you just want to save while entering, click Save Draft.

If you are finished with entry, and ready to save and format the note (you will get another chance to review prior to submit), click Save and Prepare Note.

If you want to return to CPRS press the Cancel Button. Do not use Internet browser back arrow.

Current User:

Figure 43 – Rehabilitation and Reintegration Plan Part 4

Select **[Save Draft]** to save the information entered even if it is incomplete or in the event the user wishes to review the data again prior to completing the note.

Select **[Save and Prepare Note]** to preview the note.

Click **[Cancel]** to reset the questionnaire.



Please review the content. If you need to make changes, click the Cancel button and edit the answers. If the content is correct, click the Submit Note button.

Note: once the note is submitted, it will no longer be editable in this tool and updates will need to be done within CPRS

The application reformats the information entered into the questionnaire and displays the resulting report. The instructions on the screen suggest the user review the newly formatted content. If the user wants to make changes to the material, the user should click **[Cancel]** button and re-enter the answers. If the content is correct, the user clicks the **[Submit Note]** button.

Be aware that once the note is submitted, it is no longer editable within the TBI Instruments application and any updates will have to be made within CPRS.

The clinician must sign the note in CPRS.

3.3. Sample Report

The questionnaire answers are summarized and displayed on the screen as shown below. Each report will maintain the same format, however, the questions contained in the report will be specific to each summary. The MAPI Summary is used in this example.

Patient		SSN		Facility	
Mayo-Portland Adaptability Inventory-4 Participation Index (MPI-4) <small>Walter R. Luzzo, PhD, MPP & James F. Hays, PhD, MPP</small>					
Used as VA Interdisciplinary Team Assessment of Community Functioning					
Note Type	Initial				
Person Reporting	Single Professional				
1. Distraction: Problems getting started on activities without prompting	<input type="radio"/> None				
2. Social contact with friends, work associates, and other people who are not family, significant others, or professionals	<input type="radio"/> Normal involvement with others				
3. Leisure and recreational activities	<input type="radio"/> Normal participation in leisure activities for age				
4. Self-care: Eating, dressing, bathing, hygiene	<input type="radio"/> Independent completion of self-care activities				
5. Residence: Responsibilities of independent living and homemaking (such as meal preparation, home repairs and maintenance, personal health maintenance beyond basic hygiene including medical management, but not including managing money (see # 6))	<input type="radio"/> Independent living without supervision or concern from others				
6. Transportation	<input type="radio"/> Independent in all modes of transportation including independent ability to operate a personal motor vehicle				
7A. Paid Employment: Rate either item 7A or 7B to reflect the primary desired social role. Do not rate both. Rate 7A if the primary social role is paid employment. If another social role is primary, rate only 7B. For both 7A and 7B, "support" means special help from another person with responsibilities (such as, a job coach or shadow, tutor, helper) or reduced responsibilities. Modifications to the physical environment that facilitate employment are not considered as support.	<input type="radio"/> Full-time (more than 30 hrs/wk) without support				
8. Managing money and finances: Shopping, keeping a check book or other bank account, managing personal income and investments	<input type="radio"/> Independent, manages money without supervision or concern from others				
Standard T score	8				

Please review the content. If you need to make changes, click the Cancel button and edit the answers. If the content is correct, click the Submit Note button.

Note: once the note is submitted, it will no longer be editable in this tool and updates will need to be done within CPRS.

Figure 44 – Sample Report

If the user wants to make changes to the material, the user should click **[Cancel]** button and re-enter the answers. If the content is correct, the user clicks the **[Submit Note]** button.

Be aware that once the note is submitted, it is no longer editable within the TBI Instruments application and any updates will have to be made within CPRS.

The clinician must sign the note in CPRS.

A. Business Rules

Certain answer to certain questions, or combination of questions, in the questionnaire skip questions and “jump” to other sections of the evaluation. This section details those questions and their effects on the Comprehensive TBI Evaluation and TBI Follow-up Evaluation Instrument.

A.1. Comprehensive TBI Evaluation Business Rules

[Table 3](#) lists the effect each answer on the Comprehensive TBI Evaluation.

Table 3 – Comprehensive TBI Evaluation Business Rules

Rule	Description	Related Rules
CTE BR#1	Answering Yes to Question A skips all questions until question #27. Then answering No to question #27 produces no error messages and any other data entered for this instrument is presented in the draft note.	<ol style="list-style-type: none"> 1. For Question A: Was this evaluation furnished by a non-VA provider, e.g., fee basis? Answer Yes. 2. Question #27: Are the history of the injury and the course of clinical symptoms consistent with a diagnosis of TBI sustained during OEF/OIF deployment? Answer No.
CTE BR#2	Answering Yes to Question A skips all questions until #27. Then answering Yes to Question #27 produces no error messages and any other data entered for this instrument is presented in the draft note.	<ol style="list-style-type: none"> 1. For Question A: Was this evaluation furnished by a non-VA provider, e.g., fee basis? Answer Yes. 2. Question #27. Are the history of the injury and the course of clinical symptoms consistent with a diagnosis of TBI sustained during OEF/OIF deployment? 3. Enter Yes for Question #27.
CTE BR#3	Answering No to Question A and selecting None for Question #4 will skip questions: 4-A-1, 4-A-2, 4-B-1, 4-B-2, 4-C-1, 4-C-2, 5-A, 5-B, 5-C, 5-D, 5-D-1, 5-D-1-a, 5-D-2, 5-D-3, 5-D-4, 5-D-5, 5-E, 6, 6-A, 7, 7-A, 8, 8-A, 9, 10, 11, 12, 12-A, 13.	<ol style="list-style-type: none"> 1. For Question A: Was this evaluation furnished by a non-VA provider, e.g., fee basis? Answer No. 2. For Question #4: How many serious OEF/OIF deployment related injuries have occurred? Answer None. 3. The system skips questions: 4-A-1, 4-A-2, 4-B-1, 4-B-2, 4-C-1, 4-C-2, 5-A, 5-B, 5-C, 5-D, 5-D-1, 5-D-1-a, 5-D-2, 5-D-3, 5-D-4, 5-D-5, 5-E, 6, 6-A, 7, 7-A, 8, 8-A, 9, 10, 11, 12, 12-A, 13 4. Answering Yes in this scenario produces the following message: In question #4, your response indicates this patient did not experience an OEF/OIF deployment related injury. Based on this response, this patient would not have suffered an OEF/OIF deployment related TBI. If your response to question #4 is not correct, and this patient did experience an OEF/OIF deployment related injury, please make the appropriate correction to question #4, and you will then be permitted to indicate the

Rule	Description	Related Rules
		patient suffered a TBI during OEF/OIF deployment.
CTE BR#4	Answering No to Question A and selecting One for Question #4 will skip questions 4-B-1, 4-B-2, 4-C-1, 4-C-2.	<ol style="list-style-type: none"> 1. For question A: Was this evaluation furnished by a non-VA provider, e.g., fee basis? Answer No. 2. For Question #4: How many serious OEF/OIF deployment related injuries have occurred? Answer One. 3. The result is: <ol style="list-style-type: none"> a. The Year allowed is 2001 to current. b. The system skips questions: 4-B-1, 4-B-2, 4-C-1, 4-C-2
CTE BR#5	Answering No to question A and selecting One for question #4 will skip questions 4-C-1, 4-C-2.	<ol style="list-style-type: none"> 1. For Question A: Was this evaluation furnished by a non-VA provider, e.g., fee basis? Answer No. 2. For Question #4: How many serious OEF/OIF deployment related injuries have occurred? Answer Two. 3. The result is: <ol style="list-style-type: none"> a. The Year allowed is 2001 to current. b. The system skips questions: 4-C-1, 4-C-2 c. If you answered Question #4 with Three, you will be allowed to go to 4-C-1 and 4-C-2 and the Year allowed is 2001 to current.
CTE BR#6	Answering No to Question A and Enter/confirm there is something other than 0.No. Then answering No for question 4, and No for question 5-D will skip questions 5-D-1, 5-D-1-a, 5-D-2, 5-D-3, 5-D-4, 5-D-5.	<ol style="list-style-type: none"> 1. For Question A: Was this evaluation furnished by a non-VA provider, e.g., fee basis? Answer No. 2. Enter or confirm the answer for Question for is something other than "0. No". 3. For question #5-D. Blast: Answer No. 4. The result is: <ol style="list-style-type: none"> a. The system skips questions: 5-D-1, 5-D-1-a, 5-D-2, 5-D-3, 5-D-4, 5-D-5. b. Answering No on 5-D moves you to question 5-E.
CTE BR#7	Answering No to Question A and Question #6, will skip question 6-A.	<ol style="list-style-type: none"> 1. For Question A: Was this evaluation furnished by a non-VA provider, e.g., fee basis? Answer No. 2. For Question #6: Did you lose consciousness immediately after any of these experiences? Answer No. 3. The system will skip 6-A
CTE BR#8	Answering No to Question A and answering Uncertain to Question #6, will skip Question 6-A.	<ol style="list-style-type: none"> 1. For Question A: Was this evaluation furnished by a non-VA provider, e.g., fee basis? Answer No. 2. For Question #6: Did you lose consciousness

Rule	Description	Related Rules
		<p>immediately after any of these experiences? Answer Uncertain.</p> <p>3. The system will skip question 6-A.</p>
CTE BR#9	Answering No to Question A and Question #7 will skip question 7-A.	<p>1. For Question A: Was this evaluation furnished by a non-VA provider, e.g., fee basis? Answer No.</p> <p>2. For Question #7: Did you have a period of disorientation or confusion immediately following the incident? Answer No.</p> <p>3. The system will skip question 7-A.</p>
CTE BR#10	Answering No to Question A and answering Uncertain to Question #6, will skip Question 7-A.	<p>1. For question A: Was this evaluation furnished by a non-VA provider, e.g., fee basis? Answer No.</p> <p>2. For Question #7: Did you have a period of disorientation or confusion immediately following the incident? Answer Uncertain.</p> <p>3. The system will skip question 7-A.</p>
CTE BR#12	Answering No to Question A and answering Uncertain to Question #8, will skip Question 8-A.	<p>1. For question A: Was this evaluation furnished by a non-VA provider, e.g., fee basis? Answer No.</p> <p>2. For Question #8: Did you experience a period of memory loss immediately before or after the incident? Answer Uncertain.</p> <p>3. The system will skip Question 8-A.</p>
CTE BR#13	Answering No to Question A and Question #12, will skip question 12-A.	<p>1. For Question A: Was this evaluation furnished by a non-VA provider, e.g., fee basis? Answer No.</p> <p>2. For Question #12: Prior to this evaluation, had you received any professional treatment (including medications) for your deployment related TBI symptoms? Answer No.</p> <p>3. The system will skip question 12-A.</p>
CTE BR#14	Answering No to question A and Not at all to Question #17, will skip question 17-A.	<p>1. For Question A: Was this evaluation furnished by a non-VA provider, e.g., fee basis? Answer No.</p> <p>2. For Question 17: Overall, in the last 30 days how much did these difficulties (symptoms) interfere with your life? Answer Not at all.</p> <p>3. The system will skip question 17-A.</p>
CTE BR#15	Answering No to Questions A and #18, will skip questions 18-A, 18-B, 18-C.	<p>1. For Question A: Was this evaluation furnished by a non-VA provider, e.g., fee basis? Answer No.</p> <p>2. For Question 18. In the last 30 days, have you had any problems with pain? Answer No.</p> <p>3. The system will skip questions 18-A, 18-B, 18-C.</p>
CTE	Answering No to Question A and Not at	<p>1. For question A: Was this evaluation furnished</p>

Rule	Description	Related Rules
BR#16	all to Question #18-B, will skip question 18-C.	<p>by a non-VA provider, e.g., fee basis? Answer No.</p> <p>2. For Question 18-B. In the last 30 days, how much did pain interfere with your life? Answer Not at all.</p> <p>3. The system will skip question 18-C</p>
CTE BR#17	Answering No to Question A and Not at all to Question #23, will skip Question 23-A.	<p>1. For question A: Was this evaluation furnished by a non-VA provider, e.g., fee basis? Answer No.</p> <p>2. For question 23. Psychiatric Symptoms: Answer Not at all.</p> <p>3. The system will skip question 23-A.</p>
CTE BR#18	Answering No to Question A and select something that does not equal Other condition not related to OEF/OIF deployment related TBI or Behavioral Health conditions(s) for Question #28, will skip Question 28-A.	<p>1. For question A: Was this evaluation furnished by a non-VA provider, e.g., fee basis? Answer No.</p> <p>2. For Question 28: In your clinical judgment the current clinical symptom presentation is most consistent with: Answer anything other than Other condition not related to OEF/OIF deployment related TBI or Behavioral Health conditions(s).</p> <p>3. The system will skip question 28-A.</p>
CTE BR#19	Answering No to Question A and Services will be provided outside VA. to Question #29, will skip questions 29-A, 29-B, 29-C, 29-D, 29-D-1, 29-E, 29-F, 29-G, 29-H, 29-I, 29-I-1, 30.	<p>1. For question A. Was this evaluation furnished by a non-VA provider, e.g., fee basis? Answer No.</p> <p>2. For Question 29. Follow up plan: Answer Services will be provided outside VA.</p> <p>3. The system will skip questions 29-A, 29-B, 29-C, 29-D, 29-D-1, 29-E, 29-F, 29-G, 29-H, 29-I, 29-I-1, 30.</p>
CTE BR#20	Answering No to Question A No services needed to question #29, will skip questions 29-A, 29-B, 29-C, 29-D, 29-D-1, 29-E, 29-F, 29-G, 29-H, 29-I, 29-I-1, 30.	<p>1. For Question A: Was this evaluation furnished by a non-VA provider, e.g., fee basis? Answer No.</p> <p>2. For Question 29. Follow up plan: Answer No services needed.</p> <p>3. The system will skip questions 29-A, 29-B, 29-C, 29-D, 29-D-1, 29-E, 29-F, 29-G, 29-H, 29-I, 29-I-1, 30.</p>
CTE BR#21	Answering No to Question A and Patient refused or not interested in further services to question #29, will skip questions 29-A, 29-B, 29-C, 29-D, 29-D-1, 29-E, 29-F, 29-G, 29-H, 29-I, 29-I-1, 30.	<p>1. For Question A: Was this evaluation furnished by a non-VA provider, e.g., fee basis? Answer No.</p> <p>2. For Question 29. Follow up plan: Answer Patient refused or not interested in further services.</p> <p>3. The system will skip question 29-A, 29-B, 29-C, 29-D, 29-D-1, 29-E, 29-F, 29-G, 29-H, 29-I, 29-I-1, 30.</p>
CTE	Answering No to Question A and	1. For Question A. Was this evaluation

Rule	Description	Related Rules
BR#22	answering something other than Other for Question #29-I, will skip question 29-I-1.	<p>furnished by a non-VA provider, e.g., fee basis? Answer No.</p> <ol style="list-style-type: none"> 2. For Question 29-I. New medication trial or change in dose of existing medication to address the following symptoms: Answer something other than Other. 3. The system will skip question 29-I-1.

A.2. TBI Follow-up Evaluation Instrument Business Rules

Table 4 lists the effect each answer on the TBI Follow-up Evaluation Instrument

Table 4 – TBI Evaluation Instrument Business Rules

Rule	Description	Related Rules
TFA BR#1	Answering No to Question #4 will skip Questions 4-A, 4-B, 5-A, 5-B, 5-C, 5-D, 5-D-1, 5-D-1-A, 5-D-2, 5-D-3, 5-D-4, 5-D-5, 5-E, 6, 6-A, 7, 7-A, 8, 8-A, 9, 10, 10-A.	<ol style="list-style-type: none"> 1. For Question 4: Experienced head injury since prior evaluation? Answer No. 2. The system will skip questions 4-A, 4-B, 5-A, 5-B, 5-C, 5-D, 5-D-1, 5-D-1-A, 5-D-2, 5-D-3, 5-D-4, 5-D-5, 5-E, 6, 6-A, 7, 7-A, 8, 8-A, 9, 10, 10-A
TFA BR#2	Answering No to Question #5-D will skip Questions 5-D-1, 5-D-1-A, 5-D-2, 5-D-3, 5-D-4, 5-D-5	<ol style="list-style-type: none"> 1. For question 5-D. "Blast:" Answer No. 2. The system will skip of questions 5-D-1, 5-D-1-A, 5-D-2, 5-D-3, 5-D-4, 5-D-5.
TFA BR#3	Answering No to Question #6 will skip questions 6-A.	<ol style="list-style-type: none"> 1. For question 6: Did you lose consciousness immediately after any of these experiences? Answer No. 2. The system will skip Question 6-A
TFA BR#4	Answering Uncertain to Question #6 will skip Question 6-A.	<ol style="list-style-type: none"> 1. For question 6: Did you lose consciousness immediately after any of these experiences? Answer Uncertain. 2. The system will skip Question 6-A
TFA BR#5	Answering No to Question #7 will skip Question 7-A.	<ol style="list-style-type: none"> 1. For question 7: Did you have a period of disorientation or confusion immediately following the incident? Answer No. 2. The system will skip question 7-A.
TFA BR#6	Answering Uncertain to Question #7 will skip Question 7-A.	<ol style="list-style-type: none"> 1. For question 7: Did you have a period of disorientation or confusion immediately following the incident? Answer Uncertain. 2. The system will skip question 7-A
TFA BR#7	Answering No to Question #8 will skip Question 8-A.	<ol style="list-style-type: none"> 1. For question 8: Did you experience a period of memory loss immediately before or after the incident? Answer No. 2. The system will skip question 8-A
TFA BR#8	Answering Uncertain to Question #8 will skip Question 8-A.	<ol style="list-style-type: none"> 1. For question 8: Did you experience a period of memory loss immediately before or after the incident? Answer Uncertain. 2. The system will skip question 8-A.
TFA BR#9	Answering No to Question #10 will skip Questions 10-A.	<ol style="list-style-type: none"> 1. For question 10: If you have had a new injury, have you seen any health care providers (doctors/therapists) as a result of the new head injury? Answer No. 2. The system will skip question 10-A

Rule	Description	Related Rules
TFA BR#10	Answering Uncertain to Question #8 will skip Question 8-A.	<ol style="list-style-type: none"> 1. For question 8: Did you experience a period of memory loss immediately before or after the incident? Answer Uncertain. 2. The system will skip question 8-A
TFA BR#11	<p>Answering anything other than Other to Question #20-A will skip Question 20-A-1.</p> <p>Answer Other on Question #20-A, Question 20-A-1 will appear.</p>	<ol style="list-style-type: none"> 1. For Question 20-A, answer anything other than "Other". The system will skip Question 20-A-1. 2. For Question 20-A, answer "Other". Question 20-A-1 appears.
TFA BR#12	Answering No to Question #13 will skip Questions 13-A, 13-B	<ol style="list-style-type: none"> 1. For Question 13: In the last 30 days, have you had any problems with pain? Answer No. 2. The system will skip questions 13-A, 13-B

B. Glossary

Glossary

A	B	C	D	E	F	G	H	I	J	K	L	M
N	O	P	Q	R	S	T	U	V	W	X		
0-9												

Control-click character to see entries; missing character means no entries for that character.

Term or Acronym		Description
0 - 9		
508	See Section 508	

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Term or Acronym		Description
A		
ABI	Acquired Brain Injury	
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Term or Acronym	Description
B	
browser	A program which allows a person to read hypertext . The browser provides some means of viewing the contents of nodes (or "pages") and of navigating from one node to another. A browser is required in order to access the TBI software application. Microsoft® Internet Explorer® and Firefox® are examples for browsers for the World-Wide Web. They act as clients to remote web servers.
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Term or Acronym	Description
C	
Case	The collection of information maintained on patients that have been included in a registry.
Computerized Patient Record System (CPRS)	A Computerized Patient Record (CPR) is a comprehensive database system used to store and access patients' healthcare information. CPRS is the Department of Veterans Affairs electronic health record software. The CPRS organizes and presents all relevant data on a patient in a way that directly supports clinical decision making. This data includes medical history and conditions, problems and diagnoses, diagnostic and therapeutic procedures and interventions. Both a graphic user interface version and a character-based interface version are available. CPRS

Term or Acronym	Description
	provides a single interface for health care providers to review and update a patient's medical record, and to place orders, including medications, special procedures, x-rays, patient care nursing orders, diets, and laboratory tests. CPRS is flexible enough to be implemented in a wide variety of settings for a broad spectrum of health care workers, and provides a consistent, event-driven, Windows-style interface.
CPRS	See Computerized Patient Record System
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Term or Acronym	Description
D	
Department of Defense (DoD)	A department of the U.S. Federal government, charged with ensuring that the military capacity of the U.S. is adequate to safeguard the national security.
DoD	See Department of Defense
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Term or Acronym	Description
E	
BACK	to Glossary Contents

Term or Acronym	Description
F	
BACK	to Glossary Contents

Term or Acronym	Description
G	
Global War On Terror (GWOT)	<i>Obsolete term; see Overseas Contingency Operation</i>
GWOT	Global War On Terror (<i>obsolete term; see Overseas Contingency Operation</i>).
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Term or Acronym	Description
H	
BACK	to Glossary Contents

Term or Acronym	Description
I	
BACK	to Glossary Contents

Term or Acronym	Description
J	
BACK	to Glossary Contents

Term or Acronym	Description
K	
BACK	to Glossary Contents

Term or Acronym	Description
L	
BACK	to Glossary Contents

Term or Acronym	Description
M	
MAPI	Mayo-Portland Adaptability Inventory
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Term or Acronym	Description
N	
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Term or Acronym	Description
O	
OCO	See Overseas Contingency Operation
OEF/OIF	Operation Enduring Freedom/Operation Iraqi Freedom
OPCS	See Patient Care Services
OIT	Office of Information Technology

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Term or Acronym	Description
P	
Patient Care Services (PCS), Office of	OPCS oversees VHA's clinical programs that support and improve Veterans' health care. The VA's broad approach to Veteran care incorporates expert knowledge, clinical practice and patient care guidelines in all aspects of care.

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Term or Acronym	Description
Q	

Term or Acronym	Description
R	
Registry	The VHA Registries Program supports the population-specific data needs of the enterprise including (but not limited to) the Defense/Veterans Eye Injury Registry, Oncology Tumor Registry, Traumatic Brain Injury Registry, Embedded Fragment Registry and Eye Trauma Registry. <i>Also, a database containing a collection of data relating to a disease or condition.</i>

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Term or Acronym	Description
S	
Section 508	Section 508 of the Rehabilitation Act as amended, 29 U.S.C. Section 794(d) , requires that when Federal agencies develop, procure, maintain, or use electronic and information technology, they shall ensure that this technology is accessible to people with disabilities. Agencies must ensure that this technology is accessible to employees and members of the public with disabilities to the extent it does not pose an "undue burden." Section 508 speaks to various means for disseminating information, including computers, software, and electronic office equipment. The TBI must be 508 compliant, able to extract data as needed including SNOMED codes.
Surveillance	Systematic collection, analysis, and interpretation of health data about a disease or condition.
Systematized Nomenclature of Medicine (SNOMED)	SNOMED is a terminology that originated as the systematized nomenclature of pathology (SNOP) in the early 1960s under the guidance of the College of American Pathologists. In the late 1970s, the concept was expanded to include most medical domains and renamed SNOMED. The core content includes text files such as the concepts, Descriptions, relationships, ICD-9 mappings, and history tables. SNOMED represents a terminological resource that can be implemented in software applications to represent clinically relevant information comprehensive (>350,000 concepts) multi-disciplinary coverage but discipline neutral structured to support

Term or Acronym	Description
	data entry, retrieval, maps, etc.
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Term or Acronym	Description
T	
TBI	See Traumatic Brain Injuries
Traumatic Brain Injuries (TBI)	The Traumatic Brain Injuries (TBI) Registry software application allows case managers to identify those Veterans who participated in Operation Enduring Freedom (OEF) or Operation Iraqi Freedom (OIF) and who sustained a head injury and thus are potential traumatic brain injury (TBI) patients. The TBI application permits the case manager to oversee and track the comprehensive evaluation of those patients. It also provides 17 types of reports used for tracking the evaluation and care of individuals identified as possible TBI candidates.
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Term or Acronym	Description
U	
Uniform Resource Locator (URL)	(Formerly <u>Universal</u> Resource Locator). A standard way of specifying the location of an object, typically a web page, on the Internet. URLs are the form of address used on the World-Wide Web. In TBI the URL is typically a Web page which displays another application screen.
URL	See Uniform Resource Locator
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Term or Acronym	Description
V	
VA	See Veterans Affairs
Veterans Affairs, Department of (VA)	The VA mission is to serve America's Veterans and their families with dignity and compassion and to be their principal advocate in ensuring that they receive medical care, benefits, social support, and lasting memorials promoting the health, welfare, and dignity of all Veterans in recognition of their service to this Nation. VA is the second largest Federal department and has over 278,000 employees. Among the many professions represented in the vast VA workforce are physicians, nurses, counselors, statisticians, architects, computer specialists, and attorneys. As advocates for Veterans and their families, the VA community is committed to providing the very best services with an attitude of caring and courtesy.
Veterans Health Administration (VHA)	VHA administers the United States Veterans Healthcare System, whose mission is to serve the needs of America's Veterans by providing primary care, specialized care, and related medical and social support services.
Veterans Health Information Systems and Technology	VistA is a comprehensive, integrated health care information system composed of numerous software modules. See http://www.va.gov/VistA_monograph/docs/2008VistAHealtheVet_Monograph.pdf

Term or Acronym	Description
Architecture (VistA)	and http://www.virec.research.va.gov/DataSourcesName/VISTA/VISTA.htm .
Veterans Integrated Service Network (VISN)	VHA organizes its local facilities into networks called VISNS (VA Integrated Service Networks). At the VISN level, VistA data from multiple local facilities may be combined into a data warehouse.
VHA	See Veterans Health Administration
VistA	See Veterans Health Information Systems and Technology Architecture
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Term or Acronym	Description
W	
WBA	See Web-Based Application
Web-based Application (WBA)	In software engineering, a web application is an application that is accessed via a web browser over a network such as the Internet or an intranet. The term may also mean a computer software application that is hosted in a browser-controlled environment (e.g. a Java applet) or coded in a browser-supported language (such as JavaScript, possibly combined with a browser-rendered markup language like HTML) and reliant on a common Web browser to render the application executable. Web applications are popular due to the ready availability of web browsers, and the convenience of using a web browser as a client, sometimes called a thin client. The ability to update and maintain web applications without distributing and installing software on potentially thousands of client computers is a key reason for their popularity, as is the inherent support for cross-platform compatibility. Common web applications include webmail, online retail sales, online auctions, wikis and many other functions. The TBI is a WBA. See also User Interface
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Term or Acronym	Description
X	
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C. Web Based Application Elements

The following sections describe typical WBA elements.

Text Box

SAMPLES:



Note how the appearance of the box changes: from a plain line border (**SAMPLE 1**) to an almost three-dimensional, pale yellow-highlighted field when you tab to it or click in it (**SAMPLE 2**). Type your entry into the text box. The entry will not be saved until you tab away from or otherwise exit from the text box. In cases where the format of your entry is important, a sample will appear near the box. The relative width of these boxes is usually a reflection of the number of characters you are allowed to enter. Sometimes (as with date fields) there may also be a “date picker” next to the field.

You should see a “tool tip” pop up when you hover your mouse pointer over the text box.

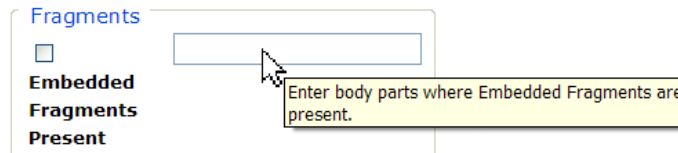


Figure 45 – Tool Tip for Text Box

Checkbox

SAMPLE: Work Related

A checkbox “toggles” (changes) between a YES / NO, ON / OFF setting. It is typically a square box which can contain a check mark or an “X” and is usually accompanied by text. Clicking the box or tabbing to the field and pressing the spacebar toggles the checkbox setting. In some instances, checkboxes may be used to provide more than one choice; in such cases, more than one box can be selected. Sometimes, a pre-determined “default” entry will be made for you in a checkbox; you can change the default if needed.

Radio Button

SAMPLE: Living Arrangement: Alone Family Friend Facility Other

A radio button, also known as an option button, is a small, hollow circle adjacent to text. Radio buttons usually appear in sets, with each button representing a single choice; normally, only one button in the set may be selected at any one time. Clicking on the radio button places a solid dot in the circle, selecting the option. Clicking a selected radio button de-selects it, removing the dot. As one radio button is selected, others within the category switch off. For example, **Male** or **Female** may be offered as choices through two radio buttons, but you can only select one of the choices.

Command Buttons

SAMPLES

A command button initiates an action. It is a rectangular “3-dimensional” shape with a label that specifies what action will be performed when the button is clicked. Common examples are shown at left. Command buttons that end with three dots indicate that selecting the command may evoke a subsidiary window.

In the text of this document, **command button** names appear inside square brackets. *Examples:* **[Search]**, **[Save]**.

The **[Cancel]** command allows you to cancel the action about to be taken, or to discard changes made on a form. For example, when closing an application, you may be prompted to validate the action to close. If you click the **[Cancel]** button, the application will not close and you will resume from the point at which the close action was initiated. Or, on a data screen, you may use the **[Cancel]** button to discard any changes you may have made to the data and close the tab.

The **[Select]** command is used to select records for editing.

The **[Search]** command is used to find one or more records. When at least one character is typed in a lookup dialog box, clicking the **[Search]** button will bring up matching entries. In many cases, leaving the lookup box blank will find all such records. Enter the search string and click **[Search]**. Searches are case-insensitive and use “contains” logic.

The **[OK]** command is used to accept a default choice, or to agree with performing an action.

Drop-down List

SAMPLE 1:

Facility Name:

