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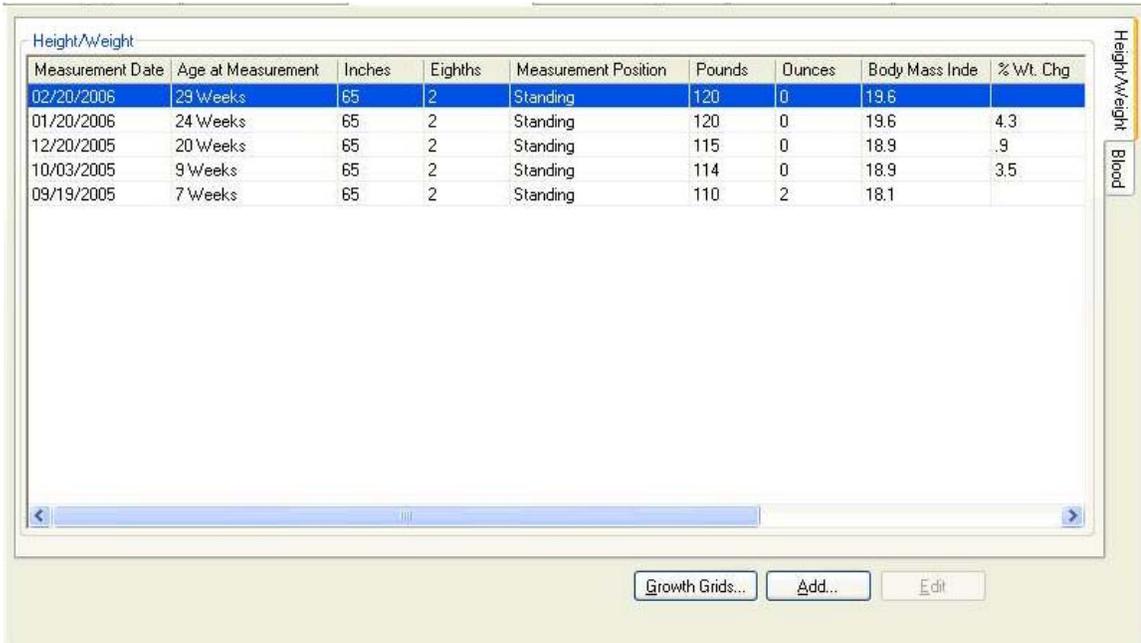
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G - Height Weight Blood Work Panels

G.1 Height/Weight and Blood Work (Height/Weight Sub-panel)

The Height/Weight sub-panel of the Height/Weight and Blood Work panel allows the user to view, add, or edit anthropometric measurements for the participant.



The screenshot shows a software window titled "Height/Weight". It contains a table with the following data:

Measurement Date	Age at Measurement	Inches	Eighths	Measurement Position	Pounds	Ounces	Body Mass Inde	% Wt. Chg
02/20/2006	29 Weeks	65	2	Standing	120	0	19.6	4.3
01/20/2006	24 Weeks	65	2	Standing	120	0	19.6	4.3
12/20/2005	20 Weeks	65	2	Standing	115	0	18.9	.9
10/03/2005	9 Weeks	65	2	Standing	114	0	18.9	3.5
09/19/2005	7 Weeks	65	2	Standing	110	2	18.1	

Below the table are three buttons: "Growth Grids...", "Add...", and "Edit".

Figure 1 – Height Weight Sub-panel

G.1.1 Controls

This section describes the behavior of the controls on the Height/Weight sub-panel of the Height/Weight and Blood Work panel.

G.1.1.1 Height/Weight Measurement Display Grid

This control allows the user to view the existing Height/Weight measurement records for the participant. The grid will consist of the following columns:

- Measurement Date
- Age at Measurement
- Inches
- Eighths
- Measurement Position
- Pounds
- Ounces
- Body Mass Index
- % Wt. Chg.
- Possible Incorrect Measurement Reason

The Age at Measurement column will display the calculated age for all participants with WIC Category of 'Infant', 'Child', 'Breastfeeding' and 'Non-Breastfeeding'. The Age at Measurement column will display the calculated weeks of gestation for participants with a WIC Category of 'Pregnant' if her last LMP start date has been entered; the column will display her calculated age if the last LMP start date is not available. The entries in the grid will be sorted in reverse chronological order according to the values of the Measurement Date column. The values on the grid are read-only. Single selection will be allowed. Double-clicking a record within the grid will invoke the Edit function only if the record meets the requirements for Editing as defined for the Edit button for this panel.

G.1.1.2 Growth Grids Button

This control allows the user to view pertinent growth grids for the participant. The Growth Grids button will be enabled when the WIC Category of the participant is the following:

- Infant
- Child
- Pregnant
- Breastfeeding, and was certified as Pregnant during the most recent pregnancy
- Non-breastfeeding, and was certified as Pregnant during the most recent pregnancy

The button has a mnemonic of "G".

G.1.1.3 Add Button

This control allows the user to add a Height/Weight measurement for the participant. The Add button will be enabled when the Height/Weight sub-panel is active. It has a mnemonic of "A" and is the default button for the dialog.

G.1.1.4 Edit Button

This control allows the user to edit an existing Height/Weight measurement for the participant. The Edit button will be enabled when an entry is selected on the Height/Weight Measurement display grid and the date on which the record was created is equal to the current system date.

The button has a mnemonic of "E".

G.1.2 Processes

This section describes the processes (navigation) that take place as a result of the actions taken on the Height/Weight sub-panel of the Height/Weight and Blood Work panel.

G.1.2.1 Initializing the Interface

Upon initial display of the Height Weight sub-panel, the Height/Weight Measurement Display Grid will display all records for each column defined for the [grid](#) for the selected StateWICID listed in the AnthropContact entity.

G.1.2.2 Edits

Upon selection of the Add or Edit buttons, if the user does not have appropriate permissions (Height/Weight and Blood.Add or FullControl), the system will invoke a standard error message with the text “You do not have the necessary permissions to update height\weight information for the participant. Please see the supervisor.”

Upon selection of the Growth Grids button, the system will proceed as follows:

- If the WIC Category of the participant is Infant, the system will invoke the [Infant Growth Grids Display](#) defined in *Chapter H - Growth Grids*.
- If the WIC Category of the participant is Child, the system will invoke the [Child Growth Grids Display](#) defined in *Chapter H - Growth Grids*.
- If the WIC Category of the participant is Pregnant:
 - The system will verify that the Pregnancy.LMPStart, Pregnancy.PrepregWeight and Pregnancy.PrepregHeight are valued. If at least one of these values are null or 0, the system will display a standard error message with the text, “The following information is required in order to display the prenatal growth grids:

LMP Start Date

Pre-pregnancy Weight

Pre-pregnancy Height

Please update the Health Information tab accordingly and try again.”

Upon successful completion of the above listed edit, the system will invoke the [Prenatal Weight Gain Grid Display](#) defined in *Chapter H - Growth Grids*.

- If the WIC Category of the participant is Breastfeeding or Non-breastfeeding and there is a date in the Expected Delivery Date for the current Pregnancy
 - The system will verify that the Pregnancy.LMPStart, Pregnancy.PrepregWeight and Pregnancy.PrepregHeight are valued. If at least one of these values are null or 0, the system will display a standard error message with the text, “The following information is required in order to display the prenatal growth grids:

LMP Start Date

Pre-pregnancy Weight

Pre-pregnancy Height

Please update the Health Information tab accordingly and try again.”

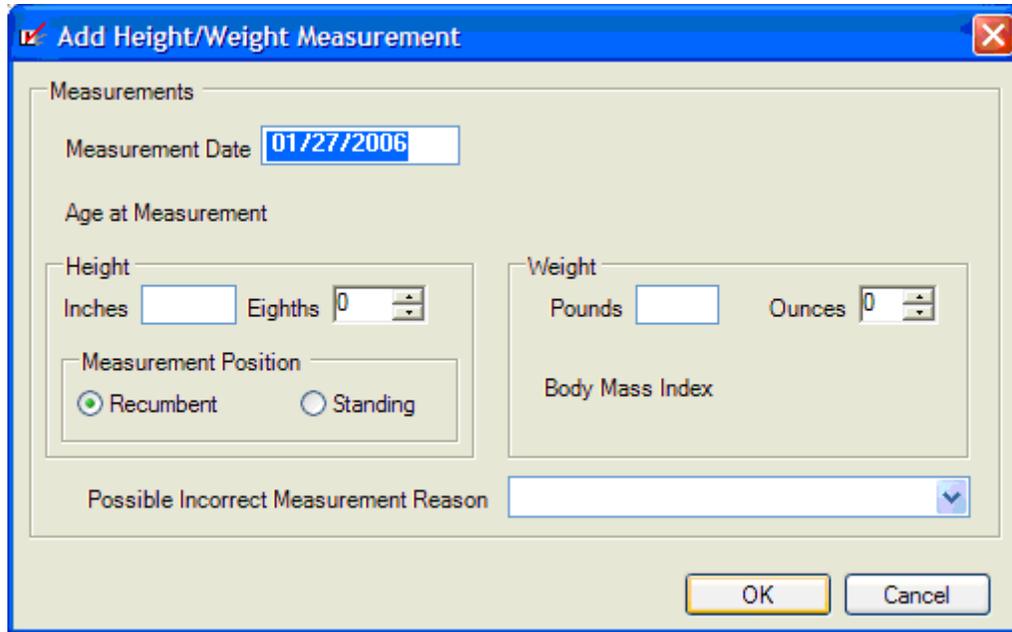
Upon successful completion of the above listed edit, the system will invoke the Prenatal Weight Gain Grid Display defined in Chapter H - Growth Grids.

Upon selection of the Add button if the user has permission (Height/Weight and Blood.Add), the system will invoke the Height/Weight Measurement Entry dialog defined later in this document.

Upon selection of the Edit button if the user has permission (Height/Weight and Blood.FullControl), the system will invoke the Height/Weight Measurement Entry defined later in this document.

G.2 Height/Weight Measurement Entry

The Height/Weight Measurement Entry dialog allows the user to specify the values of the height and weight measurement to be added or edited.

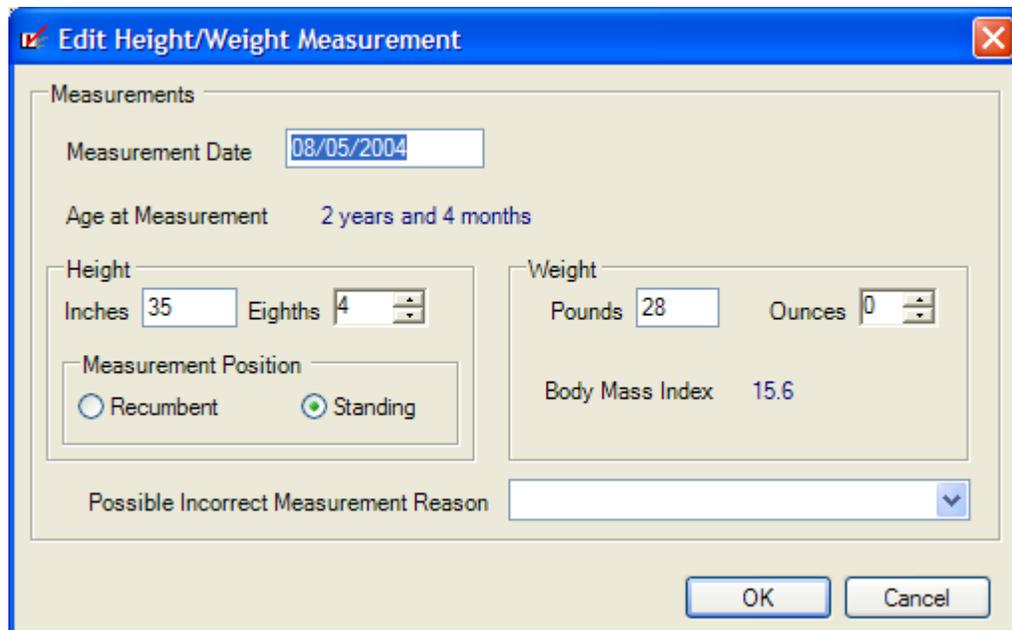


The 'Add Height/Weight Measurement' dialog box features a title bar with a checkmark icon and a close button. The main content area is titled 'Measurements' and includes the following controls:

- Measurement Date:** A text box containing '01/27/2006'.
- Age at Measurement:** A text box that is currently empty.
- Height:** A section containing an 'Inches' text box (empty), an 'Eighths' spinner box (set to 0), and a 'Measurement Position' group with radio buttons for 'Recumbent' (selected) and 'Standing'.
- Weight:** A section containing a 'Pounds' text box (empty), an 'Ounces' spinner box (set to 0), and a 'Body Mass Index' text box (empty).
- Possible Incorrect Measurement Reason:** A dropdown menu (empty).

At the bottom right, there are 'OK' and 'Cancel' buttons.

Figure 2 - Add Height/Weight Measurement Dialog



The 'Edit Height/Weight Measurement' dialog box features a title bar with a checkmark icon and a close button. The main content area is titled 'Measurements' and includes the following controls:

- Measurement Date:** A text box containing '08/05/2004'.
- Age at Measurement:** A text box containing '2 years and 4 months'.
- Height:** A section containing an 'Inches' text box (set to 35), an 'Eighths' spinner box (set to 4), and a 'Measurement Position' group with radio buttons for 'Recumbent' and 'Standing' (selected).
- Weight:** A section containing a 'Pounds' text box (set to 28), an 'Ounces' spinner box (set to 0), and a 'Body Mass Index' text box (set to 15.6).
- Possible Incorrect Measurement Reason:** A dropdown menu (empty).

At the bottom right, there are 'OK' and 'Cancel' buttons.

Figure 3 - Edit Height/Weight Measurement Dialog

G.2.1 Controls

This section describes the behavior of the controls on the Height/Weight Measurement Entry dialog.

G.2.1.1 Measurement Date Masked Edit Box

This control allows the user to enter the date on which the anthropometric measurement was taken.

The masked edit box will be **enabled** if the dialog is in Add mode and the value will be defaulted to the current system date. The masked edit box will only accept entry of numeric characters. The mask on the box will be “####/####” to accept a date with a four digit year.

If the dialog is in Edit mode, the control will be **disabled** and populated with the value of the selected `AnthropContact.MeasurementDate`.

Upon entering a valid date, the system will refresh the Age at Measurement value label.

Upon removing focus from the Measurement Date masked edit box by tabbing to or clicking onto another field or control:

- If an invalid date is entered in the Measurement Date masked edit box, the system will invoke a standard error message with the text “Invalid date entered.”
- If the Measurement Date masked edit box is blank, the system will invoke a standard error message with the text “An entry is required for the {control label}.”
- If the value entered into the Measurement Date is greater than the current system date, the system will invoke a standard error message with the text, “Measurement Date must not be greater than system date.”
- If the value entered into the Measurement Date is less than the date-of-birth, the system will invoke a standard error message with the text, “Measurement Date must not be less than the client’s birth date.”
- If the value entered into the Measurement Date is less than or equal to the Measurement Date of the previously saved Height/Weight record for the participant, the system will invoke a standard error message with the text “Measurement Date must be greater than the most recent height/weight measurement record entered.”
- If the value entered into the Measurement Date is greater than 60 days prior to the current system date, the system will invoke a standard error message with the text “Measurement Date cannot be more than 60 days prior to today’s date.”

G.2.1.2 Age at Measurement Text and Value Label

This control allows the user to view the age of the participant at the time that the measurement was taken. The value label will display in the inverse color of the form. The value will be calculated by using the Member.DateOfBirth and Measurement Date for WIC Category of Infant, Child, Breastfeeding and Non-breastfeeding to determine age. The value will be calculated using the Pregnancy.LMPStart and Measurement Date to determine weeks gestation for WIC Category of Pregnant. The information is formatted depending on the WIC Category of the participant. See the following table for format and text value per WIC Category:

WIC Category	Format of Value Label
Infant	'# months and # days'
Child	'# years and # months'
Pregnant	'# weeks' (weeks gestation)
Breastfeeding, Non-breastfeeding	'# years'

G.2.1.3 Inches Masked Edit Box

This control allows the user to enter the inches portion of the height measurement. The masked edit box will be enabled when the Height/Weight Measurement Entry dialog is active. The value entered must be a positive whole number. The mask on the box will be "##". Upon update to the value of this control, the system will update the value of the Body Mass Index value label.

G.2.1.4 Eighths Masked Edit Box

This control allows the user to enter the eighths-of-an-inch portion of the height measurement. The masked edit box will be enabled when the Height/Weight Measurement Entry dialog is active. The value entered must be a positive whole number in the range of 1-7 inclusive or the value of 0. The mask on the box will be "#". Upon update to the value of this control, the system will update the value of the Body Mass Index value label.

G.2.1.5 Measurement Position Radio Button Group

This control allows the user to indicate the position of the participant when the height measurement was taken. The radio button group will be enabled when the dialog is active. The radio button group consists of the following radio buttons:

- Recumbent
- Standing

G.2.1.6 Pounds Masked Edit Box

This control allows the user to enter the pounds portion of the weight measurement. The control will be enabled when the Height/Weight Measurement Entry dialog is active. The value entered must be a positive whole number. The mask on the box will be “###”. Upon update to the value of this control, the system will update the value of the Body Mass Index value label.

G.2.1.7 Ounces Masked Edit Box

This control allows the user to enter the ounces portion of the weight measurement. The masked edit box will be enabled when the Height/Weight Measurement Entry dialog is active. The value entered must be a positive whole number in the range of 1-15 inclusive or the value of 0. The mask on the box will be “##”. Upon update to the value of this control, the system will update the value of the Body Mass Index value label.

G.2.1.8 Body Mass Index Text and Value Label

This control allows the user to view the body mass index for the height and weight measurements taken. The value label will contain the calculated body mass index for the height and weight measurements when legitimate entries are made in the following fields:

- Inches masked edit box
- Eighths masked edit box
- Pounds masked edit box
- Ounces masked edit box

Upon updating the value in any of the above fields, the system will update the value of the Body Mass Index value label.

Body Mass Index is calculated for participant 2 years of age and older.

G.2.1.9 Possible Incorrect Measurement Reason Dropdown

This control allows the user to select a reason why the measurement data may not be correct. The control will be enabled when the Height/Weight Measurement Entry dialog is active. It will display all ReferenceDictionary.Description where the ReferenceDictionary.Category = ‘INACCMEASR’.

G.2.1.10 OK Button

The OK button will be enabled when the Height/Weight Measurement Entry dialog is active (See *Saving the Data* in the Processing section below). Characteristics for the OK button are defined in *Consistencies*.

G.2.1.11 Cancel Button

The Cancel button will be enabled when the Height/Weight Measurement Entry dialog is active. Characteristics for the Cancel button are defined in *Consistencies*.

G.2.2 Processes

This section describes the processes (navigation) that take place as a result of the actions taken on the Height/Weight Measurement Entry dialog.

G.2.2.1 Initializing the Interface

G.2.2.1.1 In Add mode

The title bar text is set to “Add Height/Weight Measurement”

The following fields are initially blank:

- Age at Measurement value label text
- Inches
- Eights
- Pounds
- Ounces
- Body Mass Index value label text
- Possible Incorrect Measurement Reason

The Measurement Date will be defaulted to the current system date

The Measurement Position radio button will be selected upon initial display as follows:

- The Recumbent radio button will be initially selected when:
 - The participant has a WIC Category of Infant or Child.
 - The age of the participant at the time of the height measurement is less than or equal to 24 months of age.
 - A measurement taken in the standing position is not recorded in the system for the participant.
- The Standing radio button will be initially selected when:
 - A measurement taken in the standing position has been previously recorded for the participant.
 - None of the above conditions listed for Recumbent apply

G.2.2.1.2 In Edit mode

The title bar text is set to “Edit Height/Weight Measurement”

The values on the dialog display previously saved values for the selected Measurement Date as defined in the Data Map for this section.

G.2.2.2 Edits

Upon selection of the OK button, if an entry is not made in the following:

- Measurement Date masked edit box
- Inches masked edit box
- Eighths masked edit box
- Pounds masked edit box
- Ounces masked edit box

The system will invoke a standard error message with the text “An entry is required for the {control label}”

The value of the Inches masked edit box does not fall between the following ranges (inclusive) per WIC Category:

WIC Category	Lower Limit	Upper Limit
Infant	1	40
Child	12	60
Pregnant, Breastfeeding, Non-breastfeeding	40	83

The system will invoke a standard error message with the text “The range for Inches is {lower limit} to {upper limit}”

If the value of the Pounds masked edit box does not fall between the following ranges (inclusive) per WIC Category:

WIC Category	Lower Limit	Upper Limit
Infant	1	40
Child	10	100
Pregnant, Breastfeeding, Non-breastfeeding	50	499

The system will invoke a standard error message with the text “The range for Pounds is {lower limit} to {upper limit}”

G.2.2.3 Saving the Data

Upon successful completion of the above-listed edits, the system will save the values to the database as defined in the Data Map below. The system will return to the Height/Weight Sub-panel panel. The [Height/Weight Measurement Display Grid](#) will be refreshed to display either the record that is added or the updated information for the record that is modified.

G.2.2.4 Assign Risk Factors

After the values are saved, if the *AssignRisksOutsideCert* business rule is active the system will invoke the Assign Risk Factors (Process) described in *Chapter 09 - Participant Folder*.

G.2.2.5 Cancel

Upon selection of the Cancel button, the system will dismiss the dialog and return to the Height/Weight Sub-panel panel.

G.2.2.6 Data Map

Control Label	Entity	Attribute	Business Rule
Measurement Date	AnthropContact	MeasurementDate	
Age at Measurement	(Calculated value)		
Height Inches	AnthropContact	LengthInches	
Height Eighths	AnthropContact	LengthEighths	
Measurement Position	AnthropContact	Recumbant	
Weight Pounds	AnthropContact	WeightPounds	
Weight Ounces	AnthropContact	WeightOunces	
Possible Incorrect Measurement Reason	AnthropContact	IncorrectReason	
Body Mass Index	(Calculated Value)		

G.3 Height/Weight and Blood Work (Blood Sub-panel)

The Blood sub-panel of the Height/Weight and Blood Work dialog allows the user to view, add, or edit blood work results for the participant. It is invoked when the user selects the Blood sub-panel while the Height/Weight and Blood Work panel is active.

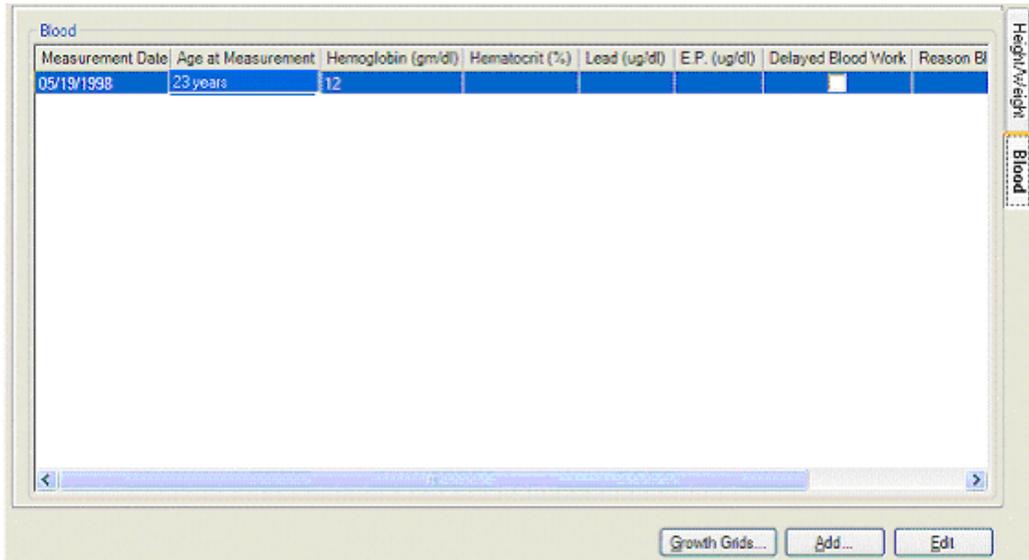


Figure 4 - Blood Sub-panel (Participant Folder)

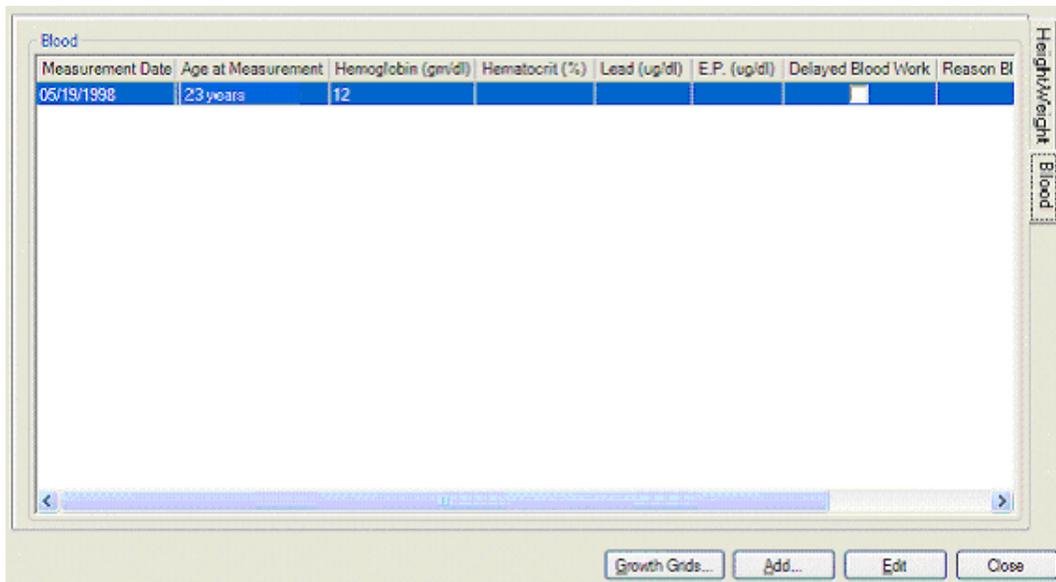


Figure 5 - Blood Sub-panel (Certification Guided Script)

G.3.1 Controls

This section describes the behavior of the controls on the Blood sub-panel of the Height/Weight and Blood Work dialog.

G.3.1.1 Blood Work Results Display Grid

This control allows the user to view the existing hematological measurement results records for the participant. The grid will consist of the following columns:

- Measurement Date
- Age at Measurement
- Hemoglobin Value (Hemoglobin (gm/dl))
- Hematocrit Value (Hematocrit (%))
- Lead Value (Lead (ug/dl))
- E.P. Value (E.P. (ug/dl))
- Delayed Blood Work flag
- Reason Blood Work Was Not Collected

The Age at Measurement column will display the calculated age for all participants with WIC Category of 'Infant', 'Child', 'Breastfeeding' and 'Non-Breastfeeding'. The Age at Measurement column will display the calculated weeks of gestation for participants with a WIC Category of 'Pregnant' if her last LMP start date has been entered; the column will display her calculated age if the last LMP start date is not available. The entries in the grid will be sorted in reverse chronological order according to the values of the Measurement Date column. The values on the grid are read-only.

G.3.1.2 Add Button

This control allows the user to add a hematological measurement result record for the participant. The Add button will be enabled when the Blood sub-panel is active. It has a mnemonic of "A" and is the default button for the dialog.

G.3.1.3 Edit Button

This control allows the user to edit a hematological measurement result record for the participant. The Edit button will be enabled when an entry is selected on the Blood Work Results display grid and any of the following criteria are met:

- The date on which the hematological measurement result was created is equal to the current system date
- The Delayed Blood Work flag is set on the selected record.

The button has a mnemonic of "E".

G.3.1.4 Close Button

The Close button will be enabled when the Blood sub-panel is active. Characteristics for the Close button are defined in *Consistencies*

G.3.2 Processes

This section describes the processes (navigation) that take place as a result of the actions taken on the Blood sub-panel of the Height/Weight and Blood Work panel.

G.3.2.1 Initializing the Interface

The grid is loaded and displays values for each column as defined in the [Blood Work Results Display Grid](#) for the selected BloodWork.StateWICID and BloodWork.ResultDate as defined in the Data Map for this section.

G.3.2.2 Edits

Upon selection of the Add or Edit buttons, if the user does not have appropriate permissions (Height/Weight and Blood.Add or FullControl), the system will invoke a standard error message with the text “You do not have the necessary permissions to update height\weight information for the participant. Please see the supervisor.”

G.3.2.3 Saving the Data

There are no updateable controls on the Blood sub-panel; therefore, no data is written to the database

G.3.2.4 Add Measurement

Upon selection of the Add button, the system will invoke the [Blood Measurement Entry](#) dialog in Add mode described later in this document.

G.3.2.5 Edit Measurement

Upon selection of the Add Button, the system will invoke the [Blood Measurement Entry](#) dialog in Edit mode described later in this document.

G.4 Blood Measurement Entry

The Blood Measurement Entry dialog allows the user to add or update the results of a blood work contact with the participant.

Add Blood Measurement

Measurement Date

Age at Measurement

Hemoglobin (gm/dl)

Hematocrit (%)

Lead (ug/dl)

E.P. (ug/dl)

Delayed Blood Work

Reason Blood Work Was not Collected

OK Cancel

Figure 6 - Add Blood Measurement Dialog

Edit Blood Measurement

Measurement Date

Age at Measurement

Hemoglobin (gm/dl)

Hematocrit (%)

Lead (ug/dl)

E.P. (ug/dl)

Delayed Blood Work

Reason Blood Work Was not Collected

OK Cancel

Figure 7 - Edit Blood Measurement Dialog

G.4.1 Controls

This section describes the behavior of the controls on the Blood Measurement Entry dialog.

G.4.1.1 Measurement Date Masked Edit Box

This control allows the user to enter the date on which the blood work results were obtained.

The masked edit box will be **enabled** if the Blood Measurement Entry dialog is in Add mode and the value will be defaulted to the current system date. The masked edit box will only accept entry of numeric characters. The mask on the box will be “###/###/####” to accept a date with a four digit year.

If the dialog is in Edit mode, the control will be **disabled** and populated with the value of the selected BloodWork.ResultDate.

Upon entering a valid date, the system will refresh the Age at Measurement value label.

Upon removing focus from the Measurement Date masked edit box by tabbing to or clicking onto another field:

- If an invalid date is entered in the Measurement Date masked edit box, the system will invoke a standard error message with the text “Invalid date entered.”
- If the Measurement Date masked edit box is blank, the system will invoke a standard error message with the text “An entry is required for the {control label}.”
- If the value entered into the Measurement Date is greater than the current system date, the system will invoke a standard error message with the text, “Measurement Date must not be greater than system date.”
- If the value entered into the Measurement Date is less than the date-of-birth, the system will invoke a standard error message with the text, “Measurement Date must not be less than the client’s birth date.”
- If the value entered into the Measurement Date is less than or equal to the Measurement Date of the previously saved Blood record for the participant, the system will invoke a standard error message with the text “Measurement Date must be greater than the most recent blood measurement record entered.”
- If the value entered into the Measurement Date is more than 90 days prior to the current system date, the system will invoke a standard error message with the text “Measurement Date cannot be more than 90 days prior to today’s date.”

G.4.1.2 Age at Measurement Text and Value Label

This control allows the user to view the age of the participant at the time that the measurement was taken. The value label will display in the inverse color of the form. The value will be calculated by using the Member.DateOfBirth and Measurement Date for WIC Category of Infant, Child, Breastfeeding and Non-breastfeeding to determine age. The value will be calculated using the Pregnancy.LMPStart and Measurement Date to determine weeks gestation for WIC Category of Pregnant. The information is formatted depending on the WIC Category of the participant. See the following table for format and text value per WIC Category:

WIC Category	Format of Value Label
Infant	'# months and # days'
Child	'# years and # months'
Pregnant	'# weeks' (weeks gestation)
Breastfeeding, Non-breastfeeding	'# years'

G.4.1.3 Hemoglobin Value Masked Edit Box (Hemoglobin (gm/dl))

This control allows the user to enter the hemoglobin value of the blood work results, if collected. The masked edit box will be **enabled** when the Blood Measurement Entry dialog is active. The masked edit box will only accept entry of numeric characters. The mask on the box will be “##.#”. Upon entry of a valid value, the system will clear the value in the Reason Blood Work Was Not Collected Dropdown and disable that control.

In Edit mode, the value will be display the previously saved value from BloodWork.Hemoglobin for the selected Measurement Date.

G.4.1.4 Hematocrit Value Masked Edit Box (Hematocrit (%))

This control allows the user to enter the Hematocrit value of the blood work results, if collected. The masked edit box will be **enabled** when the Blood Measurement Entry dialog is active. The masked edit box will only accept entry of numeric characters. The mask on the box will be “##.#”. Upon entry of a valid value, the system will clear the value in the Reason Blood Work Was Not Collected Dropdown and disable that control.

In Edit mode, the value will be display the previously saved value from BloodWork.Hematocrit for the selected Measurement Date.

G.4.1.5 Lead Value Masked Edit Box (Lead (ug/dl))

This control allows the user to enter the lead value of the blood work results, if collected. The masked edit box will be **enabled** when the Blood Measurement Entry dialog is active. The masked edit box will only accept entry of numeric characters. The mask on the box will be “####”. Upon entry of a valid value, the system will clear the value in the Reason Blood Work Was Not Collected Dropdown and disable that control.

In Edit mode, the value will be display the previously saved value from BloodWork.Lead for the selected Measurement Date.

G.4.1.6 E.P. Value Masked Edit Box (E.P. (ug/dl))

This control allows the user to enter the E.P. value of the blood work results, if collected. The masked edit box will be enabled when the Blood Measurement Entry dialog is active. The masked edit box will only accept entry of numeric characters. The mask on the box will be “####”. Upon entry of a valid value, the system will clear the value in the Reason Blood Work Was Not Collected Dropdown and disable that control.

In Edit mode, the value will be display the previously saved value from BloodWork.EP for the selected Measurement Date.

G.4.1.7 Delayed Blood Work Check Box

This control allows the user to indicate that the results of the blood work have been delayed due to laboratory processing.

The check box will be **enabled** when the Blood Measurement Entry dialog is in Add mode.

Upon selection of the Delayed Blood Work check box, the Hemoglobin, Hematocrit, Lead and E.P. fields are emptied and disabled.

The check box will be **disabled** when the Blood Measurement Entry dialog is in Edit mode.

G.4.1.8 Reason Blood Work Was Not Collected Dropdown

This control allows the user to select the reason why blood work was not collected. The Dropdown will be enabled when the following fields are blank:

- Hemoglobin Value masked edit box
- Hematocrit Value masked edit box
- Lead Value masked edit box
- E.P. Value masked edit box
- Delayed Blood Work check box

It will display all ReferenceDictionary.Description where the ReferenceDictionary.Category = ‘BLDWRKEXCP’.

G.4.1.9 OK Button

The OK button will be enabled when the Blood Measurement Entry dialog is active (See *Saving the Data* in the Processing section below). Characteristics for the OK button are defined in *Consistencies*.

G.4.1.10 Cancel Button

The Cancel button will be enabled when the Blood Measurement Entry dialog is active. Characteristics for the Cancel button are defined in *Consistencies*.

G.4.2 Processes

This section describes the processes (navigation) that take place as a result of the actions taken on the Blood Measurement Entry dialog.

G.4.2.1 Initializing the Interface

G.4.2.1.1 In Add Mode

The title bar text is set to “Add Blood Measurement”

The following fields are initially blank:

- Hemoglobin (gm/dl)
- Hematocrit (%)
- Lead (ug/dl)
- E.P. (ug/dl)
- Delayed Blood Work
- Reason Blood Work Was Not Collected

The Measurement Date will be defaulted to the current system date

G.4.2.1.2 In Edit Mode

The title bar text is set to “Edit Blood Measurement”

The values on the dialog display previously saved values for the selected Measurement Date as defined in the Data Map for this section.

G.4.2.2 Edits

Upon selection of the OK button, if all of the following are blank (at least one of the following controls not answered):

- Hemoglobin Value masked edit box
- Hematocrit Value masked edit box
- Lead Value masked edit box
- E.P. Value masked edit box
- Reason Blood Work Not Collected Dropdown
- Delayed Blood Work check box

The system will invoke a standard error message with the text “An entry is required for at least one of the following Blood fields: Hemoglobin, Hematocrit, Lead or E.P.”

If the value entered for Hemoglobin is not a positive number in the range of 6.0 - 23.9 inclusive, the system will invoke a standard error message with the text, “Hemoglobin range is 6.0 – 23.9.”

If the value entered for Hematocrit is not a positive number in the range of 18.0 - 71.9 inclusive, the system will invoke a standard error message with the text, “Hematocrit range is 18.0 – 71.9.”

If the value entered for Lead is not a positive number in the range of 1 - 999 inclusive the system will invoke a standard error message with the text, “Lead range is 1-999.”

If the value entered for E.P. is not a positive number in the range of 1 - 999 inclusive, the system will invoke a standard error message with the text, “E.P. range is 1-999.”

G.4.2.3 Saving the Data

Upon successful completion of the above-listed edits, the system will save the values to the database as defined in the Data Map below. The system will return to the Blood Sub-panel panel. The [Blood Work Results Display Grid](#) will be refreshed to display either the record that is added or the updated information for the record that is modified.

G.4.2.4 Assign Risk Factors

After the values are saved, if the *AssignRisksOutsideCert* business rule is active the system will invoke the Assign Risk Factors (Process) described in *Chapter 09 - Participant Folder*.

G.4.2.5 Cancel

Upon selection of the Cancel button, the system will dismiss the dialog and return to the Blood Sub-panel panel.

G.4.2.6 Data Map

Control Label	Entity	Attribute	Business Rule
Measurement Date	BloodWork	ResultDate	
Age at Measurement	(Calculated value)		
Hemoglobin (gm/dl)	BloodWork	Hemoglobin	
Hematocrit (%)	BloodWork	Hematocrit	
Lead (ug/dl)	BloodWork	Lead	
E.P. (ug/dl)	BloodWork	EP	
Delayed Blood Work	BloodWork	DelayedBloodwork (Y/N)	
Reason Blood Work Was Not Collected	BloodWork ReferenceDictionary (where Category = 'BLDWRKEXCP')	ExceptionReason (where = ReferenceDictionary.ExternalID) Description	