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H - Growth Grids

H.1 Infant Growth Grids Display

The Infant Growth Grids Display dialog allows the user to view growth grids for the height/weight measurements taken for a participant with the WIC Category of 'Infant' and a measurement position of 'Recumbent'. The growth grid displayed will be appropriate for the gender of the participant. The growth grid will not plot for the following circumstances:

- If the participant is greater than 36 months and measured recumbent
- If the participant is less than 24 months and measured standing

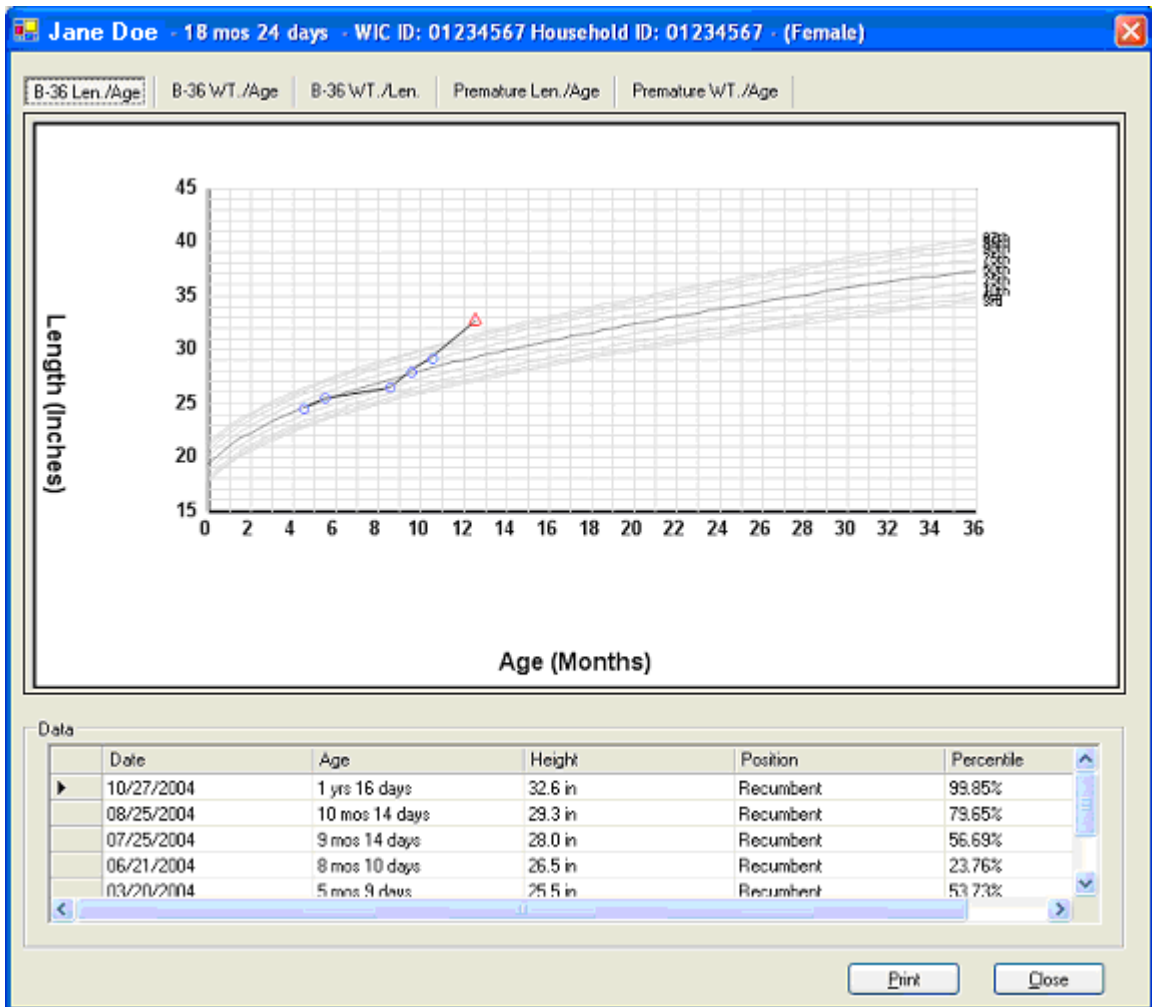


Figure 1 - Infant Growth Grids Display Dialog

H.1.1 Controls

This section describes the behavior of the controls on the Infant Growth Grids Display dialog.

H.1.1.1 Growth Grid Display Panel

This panel allows the user to select the growth grid to view. The panel will consist of the following tabs along the right side of the control:

- Birth – 36 Months - Length for Age (B-36 Len. /Age)
- Birth – 36 Months – Weight for Age (Birth - 36 Months)
- Birth – 36 Months – Weight for Length (Birth - 36 Months)
- Premature – Length for Age (Premature)
- Premature – Weight for Age (Premature)

H.1.1.2 Detail Data Grid

This control displays the detail information for the measurement points plotted on the Growth Grid Display. The columns of information displayed in the Detail Data Grid will vary depending upon the specific tab selected within the panel.

H.1.2 Processes

H.1.2.1 Initializing the Interface

Upon initial display of the Infant Growth Grids dialog, the B – 36 Len./Age tab will be displayed initially with the results plotted on the grid as defined in [Length/Age \(Birth – 36 Months\) Tab](#).

The title bar text will be set to “Member.FirstName Member.MiddleInitial Member.LastName – Age in Months and Days – WIC ID: StateWICID – Household ID: HouseHoldID – (Gender)”

The following growth grid tabs will be loaded in the panel:

- B-36 Len./Age
- B-36 WT./Age
- B-36 WT./Len.
- Premature Len./Age
- Premature WT./Age

The Detail Data Grid will display previously saved records for the selected StateWICID as defined in [Length/Age \(Birth – 36 Months\) Tab](#).

H.1.2.2 Saving the Data

There are no updateable controls on this dialog; therefore, no additional processes are defined.

H.2 Length/Age (Birth - 36 Months) Tab

The Length/Age (Birth - 36 Months) tab allows the user to view the length/age growth grid for an infant up to 36 months old and optionally print it. This section describes the on-screen view of the grid as well as the printed output. It is displayed as the default tab when the Infant Growth Grids Display dialog is invoked. The grid displayed will be appropriate for the gender of the participant.

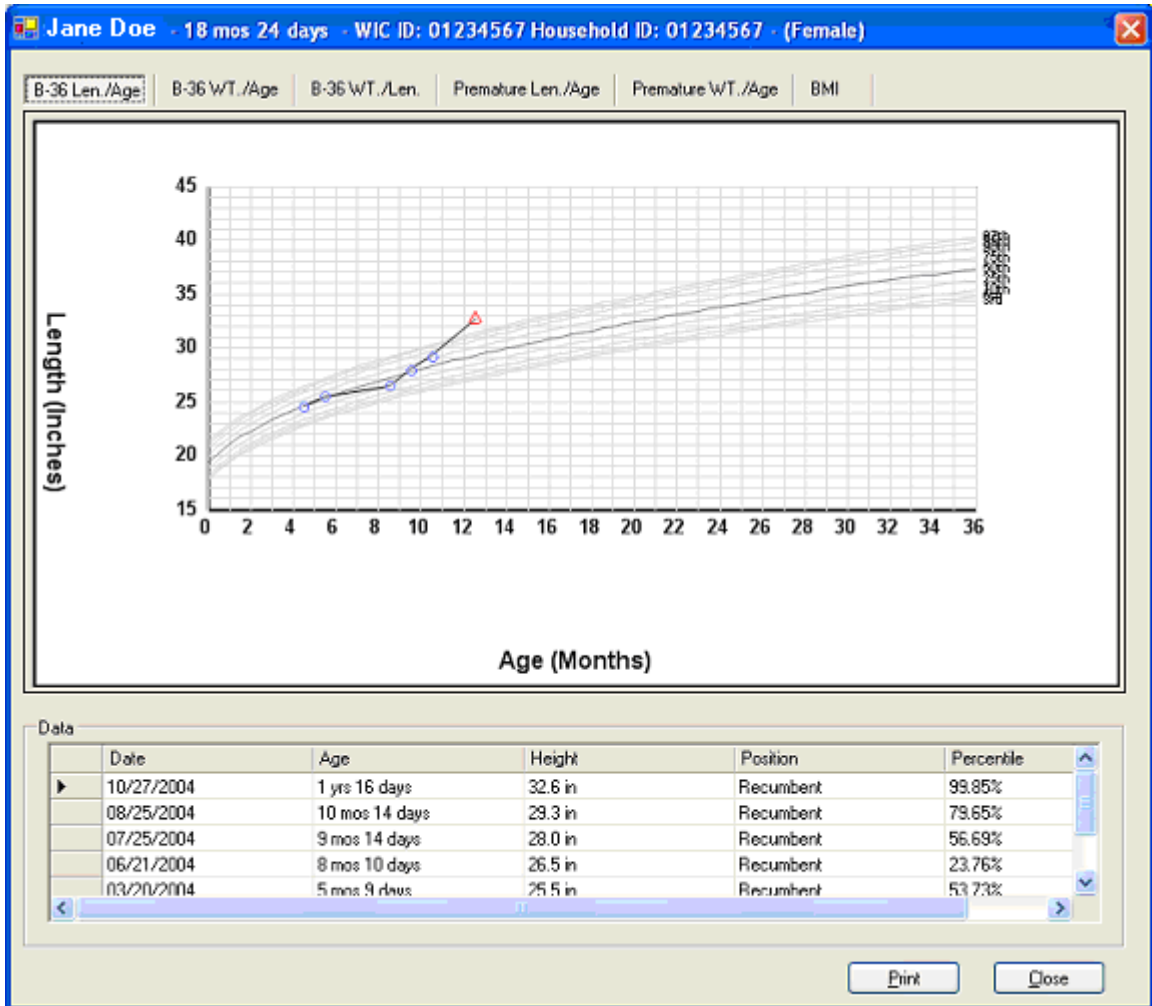


Figure 2 - Length/Age (Birth - 36 Months) Tab

H.2.1 Controls

This section describes the behavior of the controls on the Length/Age (Birth - 36 Months) tab.

H.2.1.1 Title (Printed Output Only)

The title will print on the grid to indicate the type of measurements plotted. The title will print as the following literal text:

“<REPORTHEADING> Length/Age (Birth - 36 Months) -
<GENDER>”

The <REPORTHEADING> text is pulled from the REPORTHEADING business rule for the client. The <GENDER> text will be “Boys” if the participant is male or “Girls” if the participant is female.

H.2.1.2 Footnote (Printed Output Only)

When the growth grid is printed, the footnote will print as the text of: {Member.LastName, Member.Firstname Member.MiddleInitial} - Date created: {current system date in MM/DD/CCYY format}”.

H.2.1.3 3rd Percentile Curve

This curve on the growth grid represents the 3rd percentile of length for age measurements. The curve will display as a gray line from 0 to 36 months. It will be labeled at the right edge of the growth grid.

H.2.1.4 5th Percentile Curve

This curve on the growth grid represents the 5th percentile of length for age measurements. The curve will display as a gray line from 0 to 36 months. It will be labeled at the right edge of the growth grid.

H.2.1.5 10th Percentile Curve

This curve on the growth grid represents the 10th percentile of length for age measurements. The curve will display as a gray line from 0 to 36 months. It will be labeled at the right edge of the growth grid.

H.2.1.6 25th Percentile Curve

This curve on the growth grid represents the 25th percentile of length for age measurements. The curve will display as a gray line from 0 to 36 months. It will be labeled at the right edge of the growth grid.

H.2.1.7 50th Percentile Curve

This curve on the growth grid represents the 50th percentile of length for age measurements. The curve will display as a prominent gray line from 0 to 36 months. It will be labeled at the right edge of the growth grid.

H.2.1.8 75th Percentile Curve

This curve on the growth grid represents the 75th percentile of length for age measurements. The curve will display as a gray line from 0 to 36 months. It will be labeled at the right edge of the growth grid.

H.2.1.9 90th Percentile Curve

This curve on the growth grid represents the 90th percentile of length for age measurements. The curve will display as a gray line from 0 to 36 months. It will be labeled at the right edge of the growth grid.

H.2.1.10 95th Percentile Curve

This curve on the growth grid represents the 95th percentile of length for age measurements. The curve will display as a gray line from 0 to 36 months. It will be labeled at the right edge of the growth grid.

H.2.1.11 97th Percentile Curve

This curve on the growth grid represents the 97th percentile of length for age measurements. The curve will display as a gray line from 0 to 36 months. It will be labeled at the right edge of the growth grid.

H.2.1.12 Data Points Collection

The growth grid will contain zero (0) or more data points showing the measurement taken at a particular point in time. The data point will display as a triangle in the color red when it is located above the 90th percentile curve or below the 5th percentile curve for the appropriate plot on the horizontal axis. When it does not fall in these ranges, it will display as a circle in the color blue.

H.2.1.13 Data Point Joining Line

The data points on the growth grid will be connected by a 'joining line' to indicate the growth of the participant. The line will display in black. It will have end points equal to the two adjoining data points that it connects. It will have a slope equal to the difference of the vertical axis divided by the difference of the horizontal axis for the two data points.

H.2.1.14 Vertical Axis

The vertical axis of the growth grid allows the user to reference the scale of the measurements plotted on the growth grid. The axis will have a major division of 6 units and a minor division of 5 units. The minimum value of the axis is 15 and the maximum value is 45. The title for the axis is the text "Length (Inches)". It will display in the color black.

H.2.1.15 Horizontal Axis

The horizontal axis of the growth grid allows the user to reference the category of the measurements plotted on the growth grid. The minimum value of the axis is 0 and the maximum value is 36. The title for the axis is the text "Age (Months)". It will display in the color black.

H.2.1.16 Detail Data Grid

The Detail Data Grid will display the detail information for each measurement plot plotted on the chart. The following columns of information will be displayed:

- The participant's measurement date. Double clicking the Grid will toggle the sort order of this date field.
- The participant's age at the date of measurement.
- The participant's height/length at the date of measurement.
- The participant's position at the date of measurement.
- The participant's percentile for the given measurements.

H.2.2 Processes

H.2.2.1 Initializing the Interface

Upon selection of the B-36 Len./Age tab, the title bar text will be set to "Member.FirstName Member.MiddleInitial Member.LastName – Age in Months and Days – WIC ID: StateWICID – Household ID: HouseHoldID – (Gender)"

The results are plotted on the grid as defined by the CDC. All anthropometric measurements will be plotted where the Age of Measurement is between Birth and 36 months of Age for the selected participant.

If the [SuppressBirthDataOnGrowthGrid](#) business rule is set to "N", the Birth Height and Birth Weight measurement in the Child table will also display on the grid. If the [SuppressBirthDataOnGrowthGrid](#) business rule is set to "Y", the Birth Height and Birth Weight measurement in the Child table will not display.

The Detail Data Grid will display previously saved records for the selected StateWICID as defined by the Detail Data Grid control for this section.

If the [SuppressBirthDataOnGrowthGrid](#) business rule is set to "N", the Detail Data Grid will also display the Birth Height and Birth Weight measurement in the Child table for the selected participant. If the [SuppressBirthDataOnGrowthGrid](#) business rule is set to "Y", the Detail Data Grid will not display the Birth Height and Birth Weight measurement in the Child table for the selected participant.

H.2.2.2 Saving the Data

There are no updateable controls on this dialog; therefore, no additional processes are defined.

H.3 Weight/Age (Birth - 36 Months) Tab

The Weight/Age (Birth - 36 Months) tab allows the user to view the weight/age growth grid for the infant or child up to 36 months old and optionally print it. This section describes the on-screen view of the grid as well as the printed output. It is invoked when the user selects the Weight/Age (Birth - 36 Months) tab of the Growth Grid Display panel. The grid displayed will be appropriate for the gender of the participant.

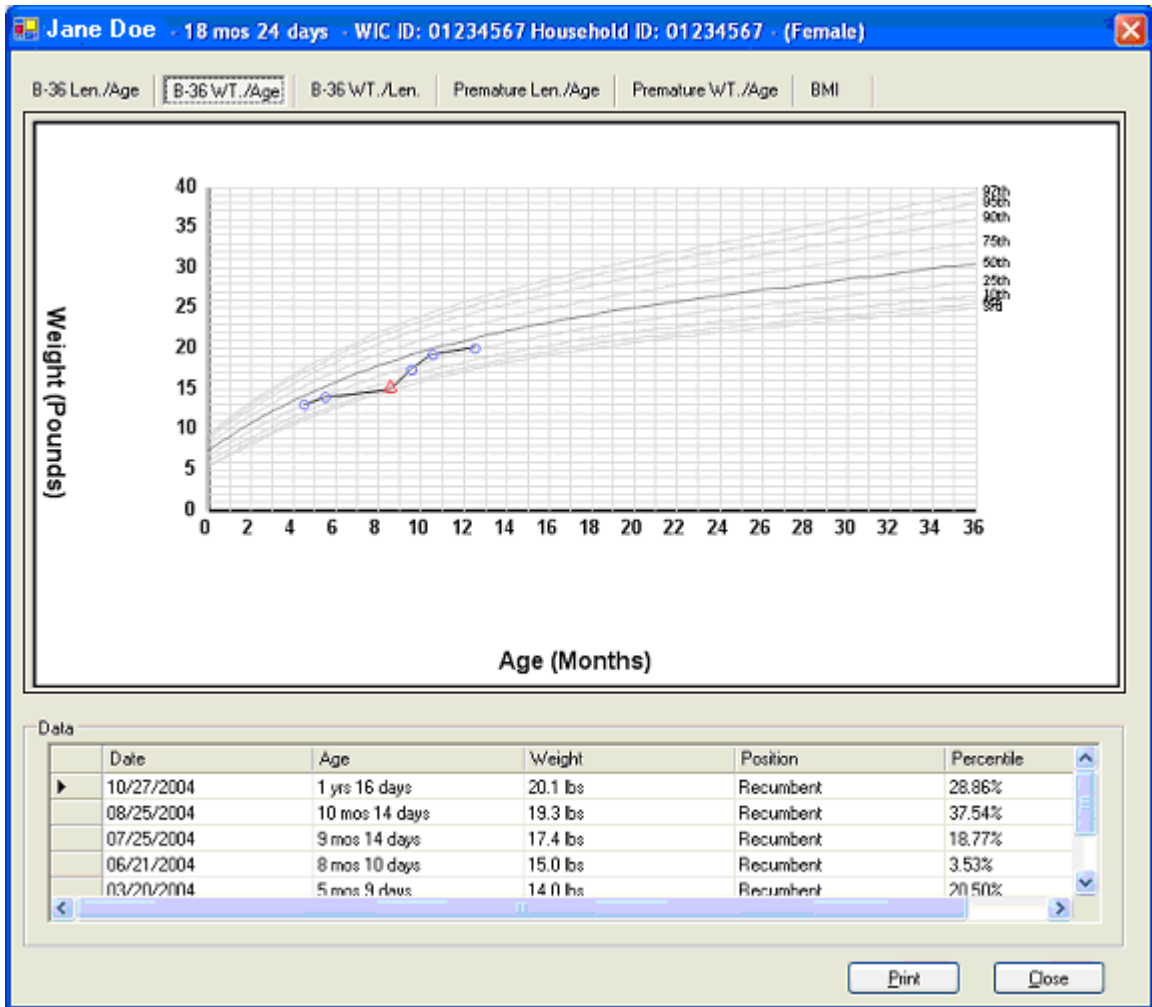


Figure 3 - Weight/Age (Birth - 36 Months) Tab

H.3.1 Controls

This section describes the behavior of the controls on the Weight/Age (Birth - 36 Months) tab.

H.3.1.1 Title (Printed Output Only)

The title will print on the grid to indicate the type of measurements plotted. The title will print as the following literal text:

“<REPORTHEADING> Weight/Age (Birth - 36 Months) -
<GENDER>”

The <REPORTHEADING> text is pulled from the REPORTHEADING business rule for the client. The <GENDER> text will be “Boys” if the participant is male or “Girls” if the participant is female.

H.3.1.2 Footnote (Printed Output Only)

The footnote will print on the grid to identify the participant whose measurements are plotted, and to indicate the date on which the growth grid was created. The footnote will print as the text of “Member.LastName, Member.First Name Member.MiddleInitial. - Date created: {current system date in MM/DD/CCYY format}”.

H.3.1.3 3rd Percentile Curve

This curve on the growth grid represents the 3rd percentile of weight for age measurements. The curve will display as a gray line from 0 to 36 months. It will be labeled at the right edge of the growth grid.

H.3.1.4 5th Percentile Curve

This curve on the growth grid represents the 5th percentile of weight for age measurements. The curve will display as a gray line from 0 to 36 months. It will be labeled at the right edge of the growth grid.

H.3.1.5 10th Percentile Curve

This curve on the growth grid represents the 10th percentile of weight for age measurements. The curve will display as a gray line from 0 to 36 months. It will be labeled at the right edge of the growth grid.

H.3.1.6 25th Percentile Curve

This curve on the growth grid represents the 25th percentile of weight for age measurements. The curve will display as a gray line from 0 to 36 months. It will be labeled at the right edge of the growth grid.

H.3.1.7 50th Percentile Curve

This curve on the growth grid represents the 50th percentile of weight for age measurements. The curve will display as a prominent gray line from 0 to 36 months. It will be labeled at the right edge of the growth grid.

H.3.1.8 75th Percentile Curve

This curve on the growth grid represents the 75th percentile of weight for age measurements. The curve will display as a gray line from 0 to 36 months. It will be labeled at the right edge of the growth grid.

H.3.1.9 90th Percentile Curve

This curve on the growth grid represents the 90th percentile of weight for age measurements. The curve will display as a gray line from 0 to 36 months. It will be labeled at the right edge of the growth grid.

H.3.1.10 95th Percentile Curve

This curve on the growth grid represents the 95th percentile of weight for age measurements. The curve will display as a gray line from 0 to 36 months. It will be labeled at the right edge of the growth grid.

H.3.1.11 97th Percentile Curve

This curve on the growth grid represents the 97th percentile of weight for age measurements. The curve will display as a gray line from 0 to 36 months. It will be labeled at the right edge of the growth grid.

H.3.1.12 Data Points Collection

The growth grid will contain zero (0) or more data points showing the measurement taken at a particular point in time. The data point will display as a triangle in the color red when it is located above the 90th percentile curve or below the 5th percentile curve for the appropriate plot on the horizontal axis. When it does not fall in these ranges, it will display as a circle in the color blue.

H.3.1.13 Data Point Joining Line

The data points on the growth grid will be connected by a 'joining line' to indicate the growth of the participant. The line will display in the color black. It will have end points equal to the two adjoining data points that it connects. It will have a slope equal to the difference of the vertical axis divided by the difference of the horizontal axis for the two data points.

H.3.1.14 Vertical Axis

The vertical axis of the growth grid allows the user to reference the scale of the measurements plotted on the growth grid. The axis will have a major division of 8 units and a minor division of 5 units. The minimum value of the axis is 0 and the maximum value is 40. The title for the axis is the text "Weight (Pounds)". It will display in the color black.

H.3.1.15 Horizontal Axis

The horizontal axis of the growth grid allows the user to reference the category of the measurements plotted on the growth grid. The minimum value of the axis is 0 and the maximum value is 36. The title for the axis is the text “Age (Months)”. It will display in the color black.

H.3.1.16 Detail Data Grid

The Detail Data Grid will display the detail information for each measurement plot plotted on the chart. The following columns of information will be displayed:

- The participant’s measurement date. Double clicking the Grid will toggle the sort order of this date field.
- The participant’s age at the date of measurement.
- The participant’s weight at the date of measurement.
- The participant’s position at the date of measurement.
- The participant’s percentile for the given measurements.

H.3.2 Processes

H.3.2.1 Initializing the Interface

Upon selection of the B-36 WT./Age Tab, the title bar text will be set to “Member.FirstName Member.MiddleInitial Member.LastName – Age in Months and Days – WIC ID: StateWICID – Household ID: HouseHoldID – (Gender)”

The results are plotted on the grid as defined by the CDC. All anthropometric measurements will be plotted where the Age of Measurement is between Birth and 36 months of Age for the selected participant.

If the [SuppressBirthDataOnGrowthGrid](#) business rule is set to “N”, the Birth Height and Birth Weight measurement in the Child table will also display on the grid. If the [SuppressBirthDataOnGrowthGrid](#) business rule is set to “Y”, the Birth Height and Birth Weight measurement in the Child table will not display.

The Detail Data Grid will display previously saved records for the selected StateWICID as defined by the Detail Data Grid control for this section.

If the [SuppressBirthDataOnGrowthGrid](#) business rule is set to “N”, the Detail Data Grid will also display the Birth Height and Birth Weight measurement in the Child table for the selected participant. If the [SuppressBirthDataOnGrowthGrid](#) business rule is set to “Y”, the Detail Data Grid will not display the Birth Height and Birth Weight measurement in the Child table for the selected participant.

H.3.2.2 Saving the Data

There are no updateable controls on this dialog; therefore, no additional processes are defined.

H.4 Weight/Length (Birth - 36 Months) Tab

The Weight/Length (Birth - 36 Months) tab allows the user to view the weight/length growth grid for an infant up to 36 months old and optionally print it. This section describes the on-screen view of the grid as well as the printed output. It is invoked when the user selects the Weight/Length (Birth - 36 Months) tab of the Growth Grid Display panel. The grid displayed will be appropriate for the gender of the participant.

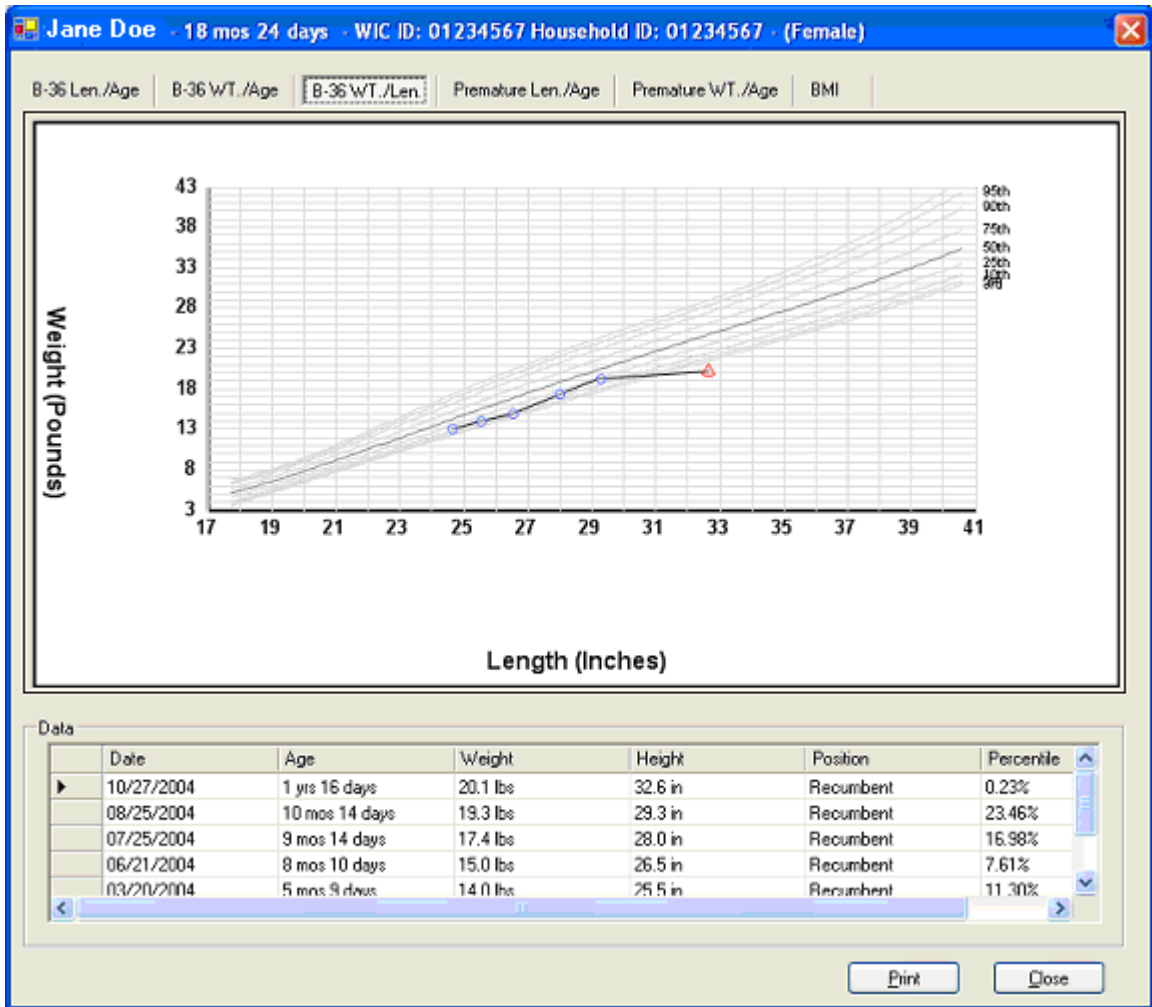


Figure 4 - Weight/Length (Birth - 36 Months) Tab s

H.4.1 Controls

This section describes the behavior of the controls on the Weight/Length (Birth - 36 Months) tab.

H.4.1.1 Title (Printed Output Only)

The title will print on the grid to indicate the type of measurements plotted. The title will print as the following literal text:

“<REPORTHEADING> Weight/Length (Birth - 36 Months) - <GENDER>”

The <REPORTHEADING> text is pulled from the REPORTHEADING business rule for the client. The <GENDER> text will be “Boys” if the participant is male or “Girls” if the participant is female.

H.4.1.2 Footnote (Printed Output Only)

The footnote will print on the grid to identify the participant whose measurements are plotted, and to indicate the date on which the growth grid was created. The footnote will print as the text of “Member.LastName, Member.First Name Member.MiddleInitial. - Date created: {current system date in MM/DD/CCYY format}”.

H.4.1.3 3rd Percentile Curve

This curve on the growth grid represents the 3rd percentile of weight for length measurements. The curve will display as a gray line from 18.1 to 41.2 inches. It will be labeled at the right edge of the growth grid.

H.4.1.4 5th Percentile Curve

This curve on the growth grid represents the 5th percentile of weight for length measurements. The curve will display as a gray line from 16.9 to 40.6 inches. It will be labeled at the right edge of the growth grid.

H.4.1.5 10th Percentile Curve

This curve on the growth grid represents the 10th percentile of weight for length measurements. The curve will display as a gray line from 16.9 to 40.6 inches. It will be labeled at the right edge of the growth grid.

H.4.1.6 25th Percentile Curve

This curve on the growth grid represents the 25th percentile of weight for length measurements. The curve will display as a gray line from 16.9 to 40.6 inches. It will be labeled at the right edge of the growth grid.

H.4.1.7 50th Percentile Curve

This curve on the growth grid represents the 50th percentile of weight for length measurements. The curve will display as a prominent gray line from 16.9 to 40.6 inches. It will be labeled at the right edge of the growth grid.

H.4.1.8 75th Percentile Curve

This curve on the growth grid represents the 75th percentile of weight for length measurements. The curve will display as a gray line from 16.9 to 40.6 inches. It will be labeled at the right edge of the growth grid.

H.4.1.9 90th Percentile Curve

This curve on the growth grid represents the 90th percentile of weight for length measurements. The curve will display as a gray line from 16.9 to 40.6 inches. It will be labeled at the right edge of the growth grid.

H.4.1.10 95th Percentile Curve

This curve on the growth grid represents the 95th percentile of weight for length measurements. The curve will display as a gray line from 16.9 to 40.6 inches. It will be labeled at the right edge of the growth grid.

H.4.1.11 97th Percentile Curve

This curve on the growth grid represents the 97th percentile of weight for length measurements. The curve will display as a gray line from 16.9 to 40.6 inches. It will be labeled at the right edge of the growth grid.

H.4.1.12 Data Points Collection

The growth grid will contain zero (0) or more data points showing the weight measurement taken at a particular length measurement. The data point will display as a triangle in the color red when it is located above the 90th percentile curve or below the 5th percentile curve for the appropriate plot on the horizontal axis. When it does not fall in these ranges, it will display as a circle in the color blue.

H.4.1.13 Data Point Joining Line

The data points on the growth grid will be connected by a 'joining line' to indicate the growth of the participant. The line will display in black. It will have end points equal to the two adjoining data points that it connects. It will have a slope equal to the difference of the vertical axis divided by the difference of the horizontal axis for the two data points.

H.4.1.14 Vertical Axis

The vertical axis of the growth grid allows the user to reference the scale of the measurements plotted on the growth grid. The axis will have a major division of 8 units and a minor division of 5 units. The minimum value of the axis is 3 and the maximum value is 43. The title for the axis is the text "Weight (Pounds)". It will display in the color black.

H.4.1.15 Horizontal Axis

The horizontal axis of the growth grid allows the user to reference the category of the measurements plotted on the growth grid. The minimum value of the axis is 16.9 and the maximum value is 40.6. The title for the axis is the text “Length (Inches)”. It will display in the color black.

H.4.1.16 Detail Data Grid

The Detail Data Grid will display the detail information for each measurement plot plotted on the chart. The following columns of information will be displayed:

- The participant’s measurement date. Double clicking the Grid will toggle the sort order of this date field.
- The participant’s age at the date of measurement.
- The participant’s weight at the date of measurement.
- The participant’s height at the date of measurement.
- The participant’s position at the date of measurement.
- The participant’s percentile for the given measurements.

H.4.2 Processes

H.4.2.1 Initializing the Interface

Upon selection of the B-36 WT./Len Tab, the title bar text will be set to “Member.FirstName Member.MiddleInitial Member.LastName – Age in Months and Days – WIC ID: StateWICID – Household ID: HouseHoldID – (Gender)”

The results are plotted on the grid as defined by the CDC All anthropcontact measurements will be plotted where the Age of Measurement is between Birth and 36 months of Age for the selected participant.

If the [SuppressBirthDataOnGrowthGrid](#) business rule is set to “N”, the Birth Height and Birth Weight measurement in the Child table will also display on the grid. If the [SuppressBirthDataOnGrowthGrid](#) business rule is set to “Y”, the Birth Height and Birth Weight measurement in the Child table will not display.

The Detail Data Grid will display previously saved records for the selected StateWICID as defined by the Detail Data Grid control for this section.

If the [SuppressBirthDataOnGrowthGrid](#) business rule is set to “N”, the Detail Data Grid will also display the Birth Height and Birth Weight measurement in the Child table for the selected participant. If the [SuppressBirthDataOnGrowthGrid](#) business rule is set to “Y”, the Detail Data Grid will not display the Birth Height and Birth Weight measurement in the Child table for the selected participant.

H.4.2.2 Saving the Data

There are no updateable controls on this dialog; therefore, no additional processes are defined.

H.5 Length/Age (Premature) Tab

The Length/Age (Premature) tab allows the user to view the length/age growth grid for an infant born prematurely and optionally print it. This section describes the on-screen view of the grids as well as the printed output. It is invoked when the user selects the Length/Age (Premature) tab of the Growth Grid Display panel. The grid displayed will be appropriate for the gender of the participant.

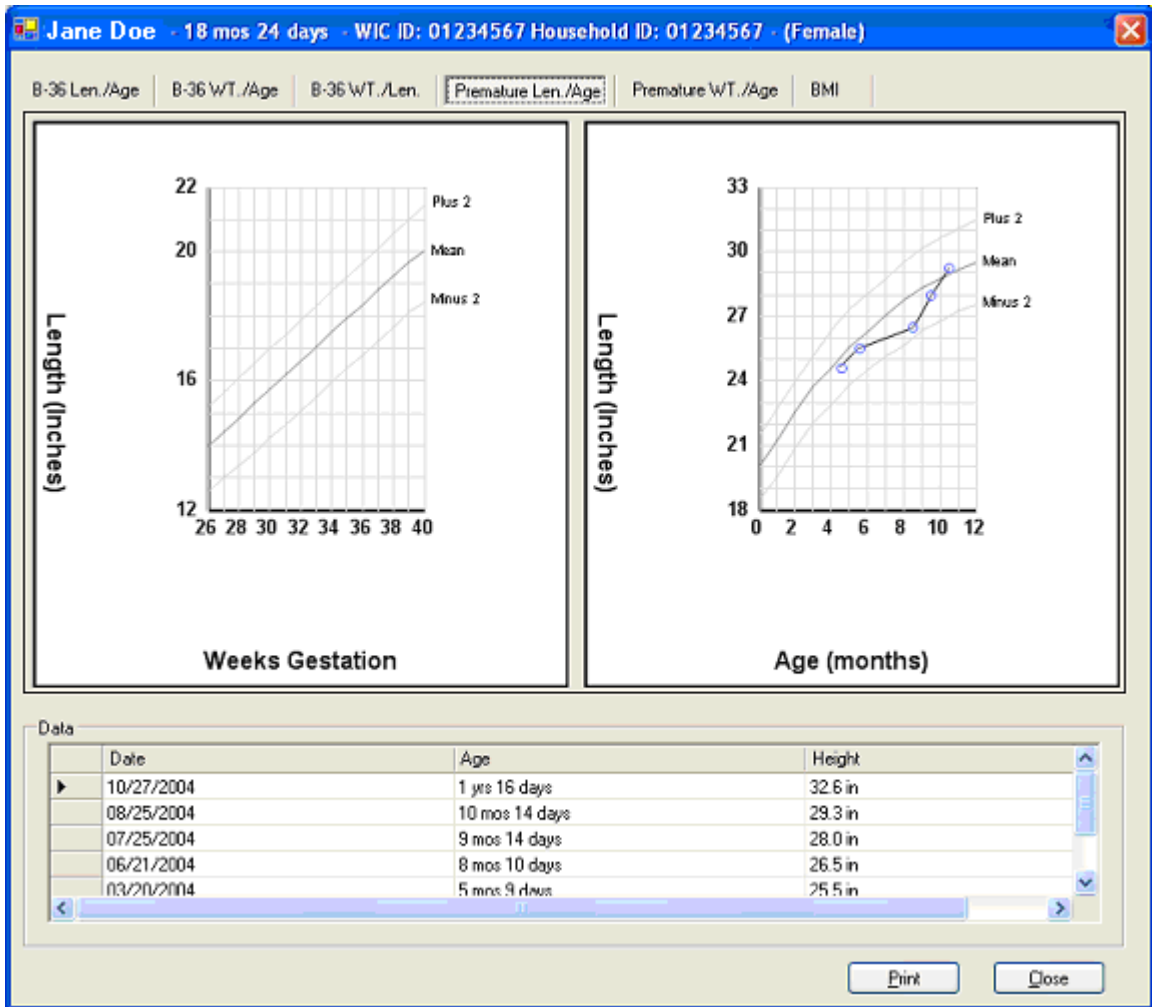


Figure 5 - Length/Age (Premature) Tab

H.5.1 Controls

This section describes the behavior of the controls on the Length/Age (Premature) tab.

H.5.1.1 Title (26 - 40 Gestational Weeks Grid) (Printed Output Only)

The title will print on the grid to indicate the type of measurements plotted. The title will print as the following literal text:

“<REPORTHEADING> Length/Age (Premature 26 - 40 Gestational Weeks)”.

The <REPORTHEADING> text is pulled from the REPORTHEADING business rule for the client.

H.5.1.2 Footnote (26 - 40 Gestational Weeks Grid) (Printed Output Only)

The footnote will print on the grid to identify the participant whose measurements are plotted, and to indicate the date on which the growth grid was created. The footnote will display as the text of “Member.LastName, Member.First Name Member.MiddleInitial. - Date created: {current system date in MM/DD/CCYY format}”.

H.5.1.3 Standard Deviation +2 Curve (26 - 40 Gestational Weeks Grid)

This curve on the growth grid represents the second standard deviation above the mean of length for age measurements. The curve will display as a gray line from 26 - 40 gestational weeks. It will be labeled at the right edge of the growth grid.

H.5.1.4 Mean Curve (26 - 40 Gestational Weeks Grid)

This curve on the growth grid represents the mean length for age measurements. The curve will display as a prominent gray line from 26 to 40 gestational weeks. It will be labeled at the right edge of the growth grid.

H.5.1.5 Standard Deviation -2 Curve (26 - 40 Gestational Weeks Grid)

This curve on the growth grid represents the second standard deviation below the mean of length for age measurements. The curve will display as a gray line from 26 to 40 gestational weeks. It will be labeled at the right edge of the growth grid.

H.5.1.6 Data Points Collection (26 - 40 Gestational Weeks Grid)

The growth grid will contain zero (0) or more data points showing the measurement taken at a particular point in time. The data point will display as a circle in the color blue.

H.5.1.7 Data Point Joining Line (26 - 40 Gestational Weeks Grid)

The data points on the growth grid will be connected by a ‘joining line’ to indicate the growth of the participant. The line will display in black. It will have end points equal to the two adjoining data points that it connects. It will have a slope equal to the difference of the vertical axis divided by the difference of the horizontal axis for the two data points.

H.5.1.8 Vertical Axis (26 - 40 Gestational Weeks Grid)

The vertical axis of the growth grid allows the user to reference the scale of the measurements plotted on the growth grid. The axis will have a major division of 5 units and a minor division of 5 units. The minimum value of the axis is 12 and the maximum value is 22. The title for the axis is the text “Length (Inches)”. It will display in the color black.

H.5.1.9 Horizontal Axis (26 - 40 Gestational Weeks Grid)

The horizontal axis of the growth grid allows the user to reference the category of the measurements plotted on the growth grid. The minimum value of the axis is 26 and the maximum value is 40. The title for the axis is the text “Weeks Gestation”. It will display in the color black.

H.5.1.10 Title (Birth - 12 Months Grid) (Printed Output Only)

The title will print on the grid to indicate the type of measurements plotted. The title will print as the literal text of “Length/Age (Premature Birth - 12 Months)”.

H.5.1.11 Footnote (Birth - 12 Months Grid) (Printed Output Only)

The footnote will print on the grid to identify the participant whose measurements are plotted, and to indicate the date on which the growth grid was created. The footnote will print as the text of “Member.LastName, Member.First Name Member.MiddleInitial. - Date created: {current system date in MM/DD/CCYY format}”.

H.5.1.12 Standard Deviation +2 Curve (Birth - 12 Months Grid)

This curve on the growth grid represents the second standard deviation above the mean of length for age measurements. The curve will display as a gray line from 0 to 12 months. It will be labeled at the right edge of the growth grid.

H.5.1.13 Mean Curve (Birth - 12 Months Grid)

This curve on the growth grid represents the mean length for age measurements. The curve will display as a prominent gray line from 0 to 12 months. It will be labeled at the right edge of the growth grid.

H.5.1.14 Standard Deviation -2 Curve (Birth - 12 Months Grid)

This curve on the growth grid represents the second standard deviation below the mean of length for age measurements. The curve will display as a gray line from 0 to 12 months. It will be labeled at the right edge of the growth grid.

H.5.1.15 Data Points Collection (Birth - 12 Months Grid)

The growth grid will contain zero (0) or more data points showing the measurement taken at a particular point in time. The data point will display as a circle in the color blue.

H.5.1.16 Data Point Joining Line (Birth - 12 Months Grid)

The data points on the growth grid will be connected by a 'joining line' to indicate the growth of the participant. The line will display in black. It will have end points equal to the two adjoining data points that it connects. It will have a slope equal to the difference of the vertical axis divided by the difference of the horizontal axis for the two data points.

H.5.1.17 Vertical Axis (Birth - 12 Months Grid)

The vertical axis of the growth grid allows the user to reference the scale of the measurements plotted on the growth grid. The axis will have a major division of 5 units and a minor division of 5 units. The minimum value of the axis is 18 and the maximum value is 33. The title for the axis is the text "Length (Inches)". It will display in the color black.

H.5.1.18 Horizontal Axis (Birth - 12 Months Grid)

The horizontal axis of the growth grid allows the user to reference the category of the measurements plotted on the growth grid. The minimum value of the axis is 0 and the maximum value is 12. The title for the axis is the text "Age (Months)". It will display in the color black.

H.5.1.19 Detail Data Grid

The Detail Data Grid will display the detail information for each measurement plot plotted on the chart. The following columns of information will be displayed:

- The participant's measurement date. Double clicking the Grid will toggle the sort order of this date field.
- The participant's age at the date of measurement.
- The participant's height at the date of measurement.

H.5.2 Processes

H.5.2.1 Initializing the Interface

Upon selection of the Premature Len./Age Tab, the title bar text will be set to "Member.FirstName Member.MiddleInitial Member.LastName – Age in Months and Days – WIC ID: StateWICID – Household ID: HouseHoldID – (Gender)"

The dialog will display the Weeks Gestation grid on the left and the Birth – 12 Months grid on the right

The results are plotted on the grid as defined by the CDC All anthropometric measurements will be plotted where the Age of Measurement is between Birth and 36 months of Age for the selected participant.

If the [SuppressBirthDataOnGrowthGrid](#) business rule is set to “N”, the Birth Height and Birth Weight measurement in the Child table will also display on the grid. If the [SuppressBirthDataOnGrowthGrid](#) business rule is set to “Y”, the Birth Height and Birth Weight measurement in the Child table will not display.

The Detail Data Grid will display previously saved records for the selected StateWICID as defined by the Detail Data Grid control for this section.

If the [SuppressBirthDataOnGrowthGrid](#) business rule is set to “N”, the Detail Data Grid will also display the Birth Height and Birth Weight measurement in the Child table for the selected participant. If the [SuppressBirthDataOnGrowthGrid](#) business rule is set to “Y”, the Detail Data Grid will not display the Birth Height and Birth Weight measurement in the Child table for the selected participant.

H.5.2.2 Saving the Data

There are no updateable controls on this dialog; therefore, no additional processes are defined.

H.6 Weight/Age (Premature) Tab

The Weight/Age (Premature) tab allows the user to view the weight for age (premature) growth grids for the participant. This section describes the on-screen view of the grids as well as the printed output. It is invoked when the user selects the Weight/Age (Premature) tab of the Growth Grid Display panel. The grid displayed will be appropriate for the gender of the participant.

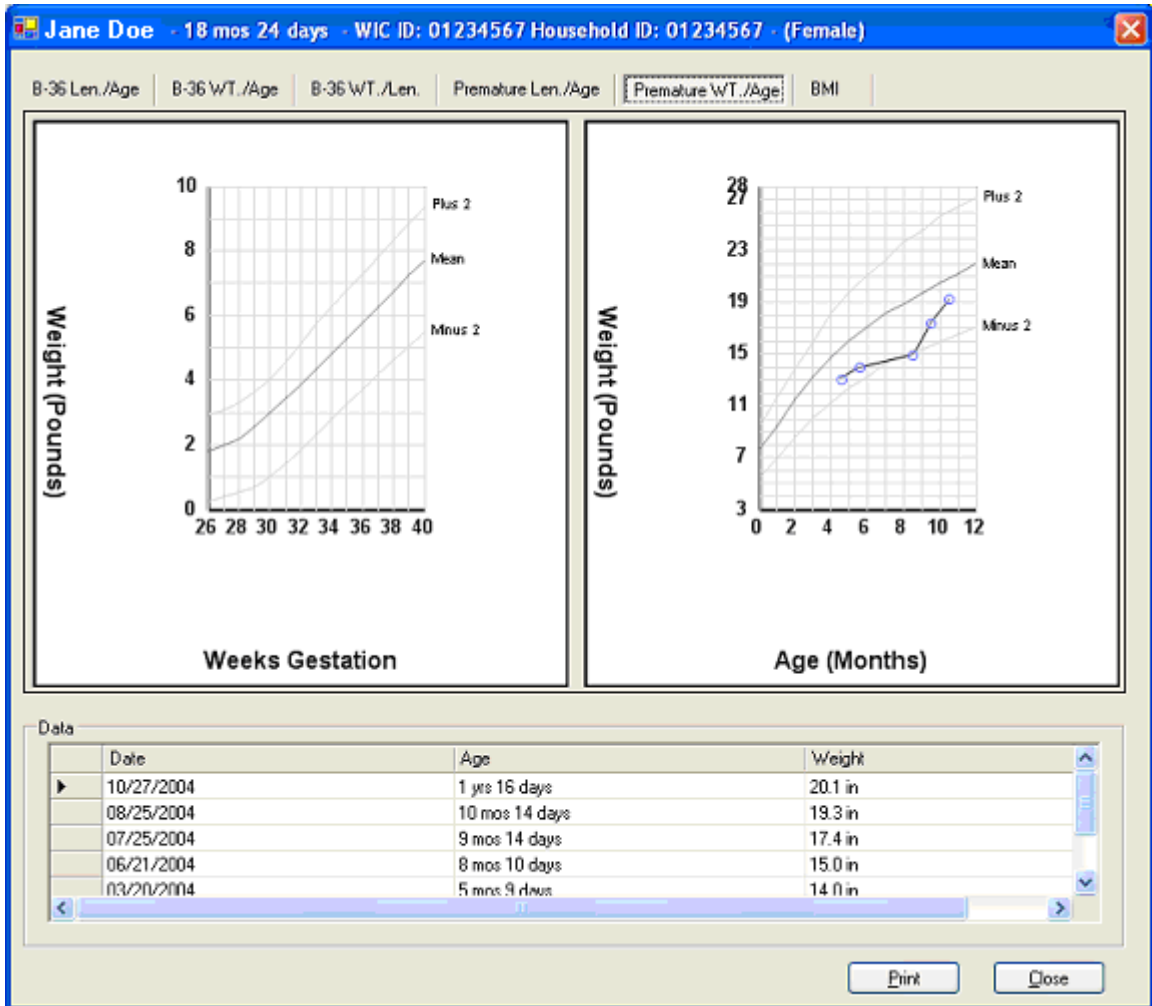


Figure 6 - Weight/Age (Premature) Tab

H.6.1 Controls

This section describes the behavior of the controls on the Weight/Age (Premature) tab.

H.6.1.1 Title (26 - 40 Gestational Weeks Grid) (Printed Output Only)

The title will print on the grid to indicate the type of measurements plotted. The title will print as the following literal text:

“<REPORTHEADING> Weight/Age (Premature 26 - 40 Gestational Weeks”.

The <REPORTHEADING> text is pulled from the REPORTHEADING business rule for the client.

H.6.1.2 Footnote (26 - 40 Gestational Weeks Grid) (Printed Output Only)

The footnote will print on the grid to identify the participant whose measurements are plotted, and to indicate the date on which the growth grid was created. The footnote will print as the text of “Member.LastName, Member.First Name Member.MiddleInitial. - Date created: {current system date in MM/DD/CCYY format}”.

H.6.1.3 Standard Deviation +2 Curve (26 - 40 Gestational Weeks Grid)

This curve on the growth grid represents the second standard deviation above the mean of weight for age measurements. The curve will display as a gray line from 26 - 40 gestational weeks. It will be labeled at the right edge of the growth grid.

H.6.1.4 Mean Curve (26 - 40 Gestational Weeks Grid)

This curve on the growth grid represents the mean weight for age measurements. The curve will display as a gray line from 26 to 40 gestational weeks. It will be labeled at the right edge of the growth grid.

H.6.1.5 Standard Deviation -2 Curve (26 - 40 Gestational Weeks Grid)

This curve on the growth grid represents the second standard deviation below the mean of weight for age measurements. The curve will display as a prominent gray line from 26 to 40 gestational weeks. It will be labeled at the right edge of the growth grid.

H.6.1.6 Data Points Collection (26 - 40 Gestational Weeks Grid)

The growth grid will contain zero (0) or more data points showing the measurement taken at a particular point in time. The data point will display as a circle in the color blue.

H.6.1.7 Data Point Joining Line (26 - 40 Gestational Weeks Grid)

The data points on the growth grid will be connected by a ‘joining line’ to indicate the growth of the participant. The line will display in the color black. It will have end points equal to the two adjoining data points that it connects. It will have a slope equal to the difference of the vertical axis divided by the difference of the horizontal axis for the two data points.

H.6.1.8 Vertical Axis (26 - 40 Gestational Weeks Grid)

The vertical axis of the growth grid allows the user to reference the scale of the measurements plotted on the growth grid. The axis will have a major division of 5 units and a minor division of 5 units. The minimum value of the axis is 0 and the maximum value is 10. The title for the axis is the text “Weight (Pounds)”. It will display in the color black.

H.6.1.9 Horizontal Axis (26 - 40 Gestational Weeks Grid)

The horizontal axis of the growth grid allows the user to reference the category of the measurements plotted on the growth grid. The minimum value of the axis is 26 and the maximum value is 40. The title for the axis is the text “Weeks Gestation”. It will display in the color black.

H.6.1.10 Title (Birth - 12 Months Grid) (Printed Output Only)

The title will print on the grid to indicate the type of measurements plotted. The title will print as the literal text of “Weight/Age (Premature Birth - 12 Months)”.

H.6.1.11 Footnote (Birth - 12 Months Grid) (Printed Output Only)

The footnote will print on the grid to identify the participant whose measurements are plotted, and to indicate the date on which the growth grid was created. The footnote will display as the text of “Member.LastName, Member.First Name Member.MiddleInitial. - Date created: {current system date in MM/DD/CCYY format}”.

H.6.1.12 Standard Deviation +2 Curve (Birth - 12 Months Grid)

This curve on the growth grid represents the second standard deviation above the mean of weight for age measurements. The curve will display as a gray line from 0 to 12 months. It will be labeled at the right edge of the growth grid.

H.6.1.13 Mean Curve (Birth - 12 Months Grid)

This curve on the growth grid represents the mean weight for age measurements. The curve will display as a prominent gray line from 0 to 12 months. It will be labeled at the right edge of the growth grid.

H.6.1.14 Standard Deviation -2 Curve (Birth - 12 Months Grid)

This curve on the growth grid represents the second standard deviation below the mean of weight for age measurements. The curve will display as a gray line from 0 to 12 months. It will be labeled at the right edge of the growth grid.

H.6.1.15 Data Points Collection (Birth - 12 Months Grid)

The growth grid will contain zero (0) or more data points showing the measurement taken at a particular point in time. The data point will display as a circle in the color blue.

H.6.1.16 Data Point Joining Line (Birth - 12 Months Grid)

The data points on the growth grid will be connected by a 'joining line' to indicate the growth of the participant. The line will display in black. It will have end points equal to the two adjoining data points that it connects. It will have a slope equal to the difference of the vertical axis divided by the difference of the horizontal axis for the two data points.

H.6.1.17 Vertical Axis (Birth - 12 Months Grid)

The vertical axis of the growth grid allows the user to reference the scale of the measurements plotted on the growth grid. The axis will have a major division of 5 units and a minor division of 5 units. The minimum value of the axis is 3 and the maximum value is 28. The title for the axis is the text "Weight (Pounds)". It will display in the color black.

H.6.1.18 Horizontal Axis (Birth - 12 Months Grid)

The horizontal axis of the growth grid allows the user to reference the category of the measurements plotted on the growth grid. The minimum value of the axis is 0 and the maximum value is 12. The title for the axis is the text "Age (Months)". It will display in the color black.

H.6.1.19 Detail Data Grid

The Detail Data Grid will display the detail information for each measurement plot plotted on the chart. The following columns of information will be displayed:

- The participant's measurement date. Double clicking the Grid will toggle the sort order of this date field.
- The participant's age at the date of measurement.
- The participant's weight at the date of measurement.

H.6.2 Processes

H.6.2.1 Initializing the Interface

Upon selection of the Premature WT./Age Tab, the title bar text will be set to "Member.FirstName Member.MiddleInitial Member.LastName– Age in Months and Days – WIC ID: StateWICID – Household ID: HouseHoldID – (Gender)"

The dialog will display the Weeks Gestation grid on the left and the Birth – 12 Months grid on the right

The results are plotted on the grid as defined by the CDC . All anthropometric measurements will be plotted where the Age of Measurement is between Birth and 36 months of Age for the selected participant.

If the [SuppressBirthDataOnGrowthGrid](#) business rule is set to “N”, the Birth Height and Birth Weight measurement in the Child table will also display on the grid. If the [SuppressBirthDataOnGrowthGrid](#) business rule is set to “Y”, the Birth Height and Birth Weight measurement in the Child table will not display.

The Detail Data Grid will display previously saved records for the selected StateWICID as defined by the Detail Data Grid control for this section.

If the [SuppressBirthDataOnGrowthGrid](#) business rule is set to “N”, the Detail Data Grid will also display the Birth Height and Birth Weight measurement in the Child table for the selected participant. If the [SuppressBirthDataOnGrowthGrid](#) business rule is set to “Y”, the Detail Data Grid will not display the Birth Height and Birth Weight measurement in the Child table for the selected participant.

H.6.2.2 Saving the Data

There are no updateable controls on this dialog; therefore, no additional processes are defined.

H.7 Child Growth Grids Display

The Child Growth Grids Display dialog allows the user to view growth grids for the height/weight measurements taken for a participant with the WIC Category of Child and a measurement position of “Standing”. The grid displayed will be appropriate for the gender of the participant.

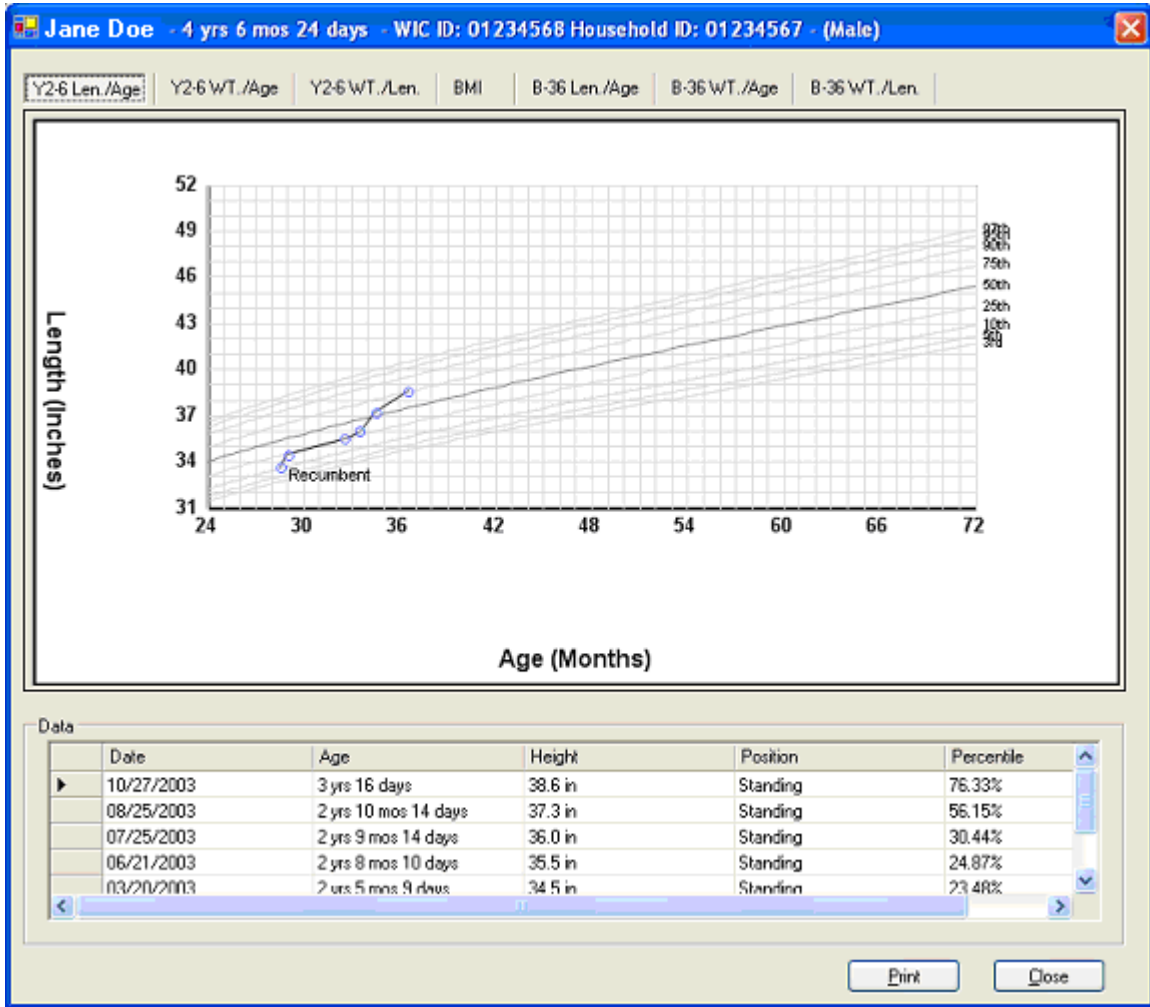


Figure 7 - Child Growth Grids Display Dialog

H.7.1 Controls

This section describes the behavior of the controls on the Child Growth Grids Display dialog.

H.7.1.1 Growth Grid Display Panel

This control allows the user to select the growth grid to view. The panel will consist of the following tabs along the right side of the control:

- Length/Age (Birth - 36 Months) tab
- Weight/Age (Birth - 36 Months) tab

- Weight/Length (Birth - 36 Months) tab
- Height/Age (2-6 Years) tab
- Weight/Age (2-6 Years) tab
- Weight/Height (2-6 Years) tab
- BMI

H.7.1.2 Detail Data Grid

This control displays the detail information for the measurement points plotted on the Growth Grid Display. The columns of information displayed in the Detail Data Grid will vary depending upon the specific tab selected within the folder.

H.7.2 Processes

H.7.2.1 Initializing the Interface

Upon initial display of the Child Growth Grids dialog, the Y2-6 Ht./Age tab will be displayed initially with the results plotted on the grid as defined in [Height/Age \(2-6 Years\) Tab](#).

The title bar text will be set to “Member.FirstName Member.MiddleInitial Member.LastName – Age in Years, Months and Days – WIC ID: StateWICID – Household ID: HouseHoldID – (Gender)”

The following growth grid tabs will be loaded in the panel

- Y2-6 Ht./Age
- Y2-6 WT./Age
- Y2-6 WT./Ht.
- B-36 Len./Age
- B-36 WT./Age
- B-36 WT./Len.
- BMI

The grid will display the text “Recumbent” next to the plot point where the child is older than 24 months and measured in a recumbent position.

The Detail Data Grid will display previously saved records for the selected StateWICID as defined in [Height/Age \(2-6 Years\) Tab](#).

H.7.2.2 Saving the Data

There are no updateable controls on this dialog; therefore, no additional processes are defined.

H.8 Height/Age (2-6 Years) Tab

The Height/Age (2-6 Years) tab allows the user to view the Height/Age growth grid for a child between 2 and 6 years of age and optionally print it. This section describes the on-screen view of the grid as well as the printed output. The tab is invoked when the user selects the Height/Age (2-6 Years) tab of the Child Growth Grids folder. The values displayed will be appropriate for the gender of the participant.

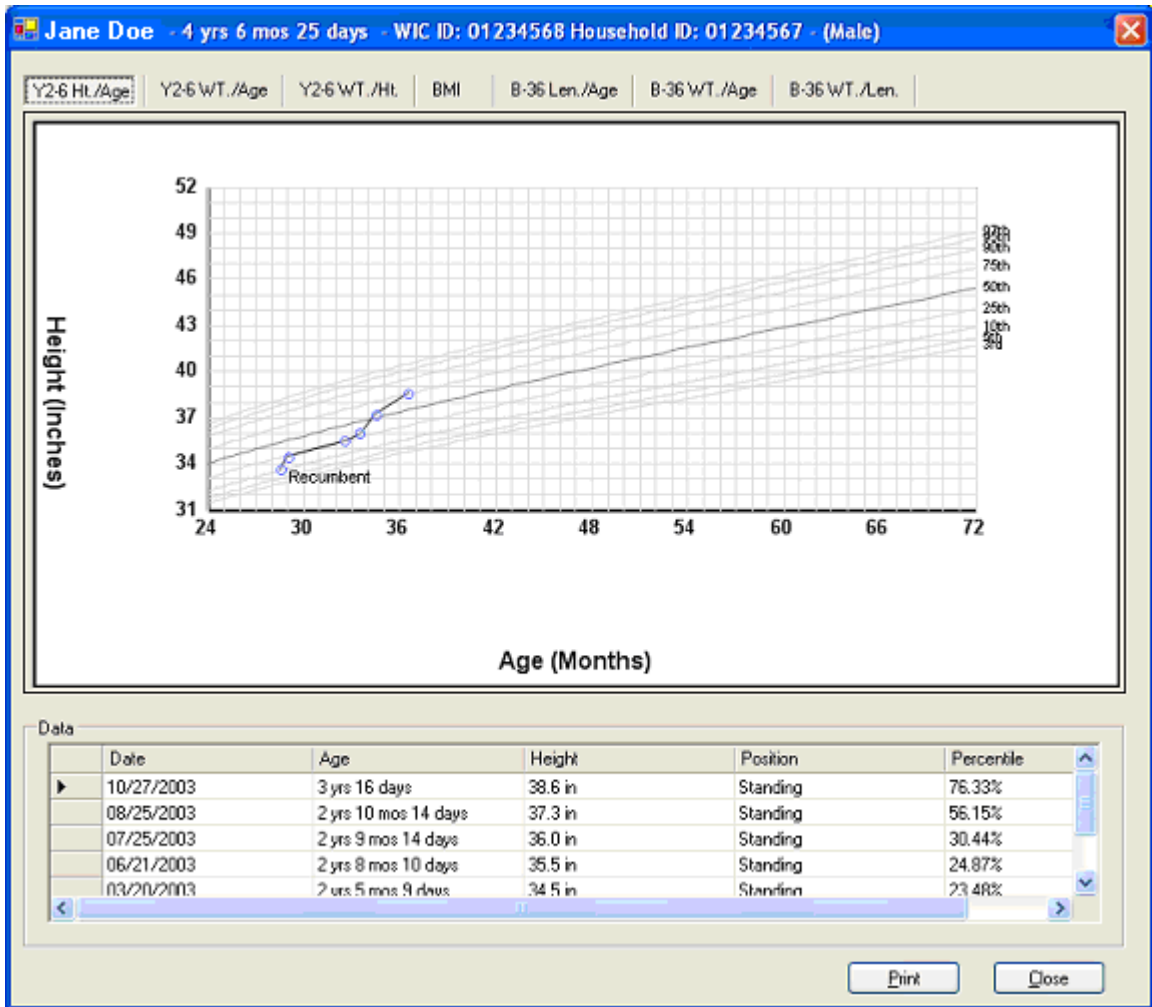


Figure 8 - Height/Age (2-6 Years) Tab - Boys

H.8.1 Controls

This section describes the behavior of the controls on the Height/Age (2-6 Years) tab.

H.8.1.1 Title (Printed Output Only)

The title will print on the grid to indicate the type of measurements plotted. The title will print as the following literal text:

“<REPORTHEADING> Height/Age (2-6 Years) - <GENDER>”

The <REPORTHEADING> text is pulled from the REPORTHEADING business rule for the client. The <GENDER> text will be “Boys” if the participant is male or “Girls” if the participant is female.

H.8.1.2 Footnote (Printed Output Only)

The footnote will print on the grid to identify the participant whose measurements are plotted, and to indicate the date on which the growth grid was created. The footnote will display as the text of “Member.LastName, Member.First Name Member.MiddleInitial - Date created: {current system date in MM/DD/CCYY format}”.

H.8.1.3 3rd Percentile Curve

This curve on the growth grid represents the 3rd percentile of height for age measurements. The curve will display as a gray line from 2 to 6 years. It will be labeled at the right edge of the growth grid.

H.8.1.4 5th Percentile Curve

This curve on the growth grid represents the 5th percentile of height for age measurements. The curve will display as a gray line from 2 to 6 years. It will be labeled at the right edge of the growth grid.

H.8.1.5 10th Percentile Curve

This curve on the growth grid represents the 10th percentile of height for age measurements. The curve will display as a gray line from 2 to 6 years. It will be labeled at the right edge of the growth grid.

H.8.1.6 25th Percentile Curve

This curve on the growth grid represents the 25th percentile of height for age measurements. The curve will display as a gray line from 2 to 6 years. It will be labeled at the right edge of the growth grid.

H.8.1.7 50th Percentile Curve

This curve on the growth grid represents the 50th percentile of height for age measurements. The curve will display as a prominent gray line from 2 to 6 years. It will be labeled at the right edge of the growth grid.

H.8.1.8 75th Percentile Curve

This curve on the growth grid represents the 75th percentile of height for age measurements. The curve will display as a gray line from 2 to 6 years. It will be labeled at the right edge of the growth grid.

H.8.1.9 90th Percentile Curve

This curve on the growth grid represents the 90th percentile of height for age measurements. The curve will display as a gray line from 2 to 6 years. It will be labeled at the right edge of the growth grid.

H.8.1.10 95th Percentile Curve

This curve on the growth grid represents the 95th percentile of height for age measurements. The curve will display as a gray line from 2 to 6 years. It will be labeled at the right edge of the growth grid.

H.8.1.11 97th Percentile Curve

This curve on the growth grid represents the 97th percentile of height for age measurements. The curve will display as a gray line from 2 to 6 years. It will be labeled at the right edge of the growth grid.

H.8.1.12 Data Points Collection

The growth grid will contain zero (0) or more data points showing the measurement taken at a particular point in time. The data point will display as a triangle in the color red when it is located above the 90th percentile curve or below the 5th percentile curve for the appropriate plot on the horizontal axis. When it does not fall in these ranges, it will display as a circle in the color blue.

H.8.1.13 Data Point Joining Line

The data points on the growth grid will be connected by a 'joining line' to indicate the growth of the participant. The line will display in black. It will have end points equal to the two adjoining data points that it connects. It will have a slope equal to the difference of the vertical axis divided by the difference of the horizontal axis for the two data points.

H.8.1.14 Vertical Axis

The vertical axis of the growth grid allows the user to reference the scale of the measurements plotted on the growth grid. The axis will have a major division of 7 units and a minor division of 3 units. The minimum value of the axis is 31 and the maximum value is 52. The title for the axis is the text "Height (Inches)". It will display in the color black.

H.8.1.15 Horizontal Axis

The horizontal axis of the growth grid allows the user to reference the category of the measurements plotted on the growth grid. The minimum value of the axis is 2 and the maximum value is 6. The title for the axis is the text "Age (Years)". It will display in the color black.

H.8.1.16 Detail Data Grid

The Detail Data Grid will display the detail information for each measurement plot plotted on the chart. The following columns of information will be displayed:

- The participant's measurement date. Double clicking the Grid will toggle the sort order of this date field.
- The participant's age at the date of measurement.
- The participant's height at the date of measurement.
- The participant's position at the date of measurement.
- The participant's percentile for the given measurements.

H.8.2 Processes

H.8.2.1 Initializing the Interface

Upon selection of the Y2-6 Ht./Age tab, the title bar text will be set to "Member.FirstName Member.MiddleInitial Member.LastName – Age in Years, Months and Days – WIC ID: StateWICID – Household ID: HouseHoldID – (Gender)"

The results are plotted on the grid as defined by the CDC.

The grid will display the text "Recumbent" next to the plot point where the child is older than 24 months and measured in a recumbent position.

The Detail Data Grid will display previously saved records for the selected StateWICID as defined by the Detail Data Grid control for this section for all data captured for the Child where the child is 24 months or older.

H.8.2.2 Saving the Data

There are no updateable controls on this dialog; therefore, no additional processes are defined.

H.9 Weight/Age (2-6 Years) Tab

The Weight/Age (2-6 Years) tab allows the user to view the weight/age growth grid for a child between 2 and 6 years of age and optionally print it. This section describes the on-screen view of the grid as well as the printed output. The tab is invoked when the user selects the Weight/Age (2-6 Years) tab of the Child Growth Grids folder. The values displayed will be appropriate for the gender of the participant.

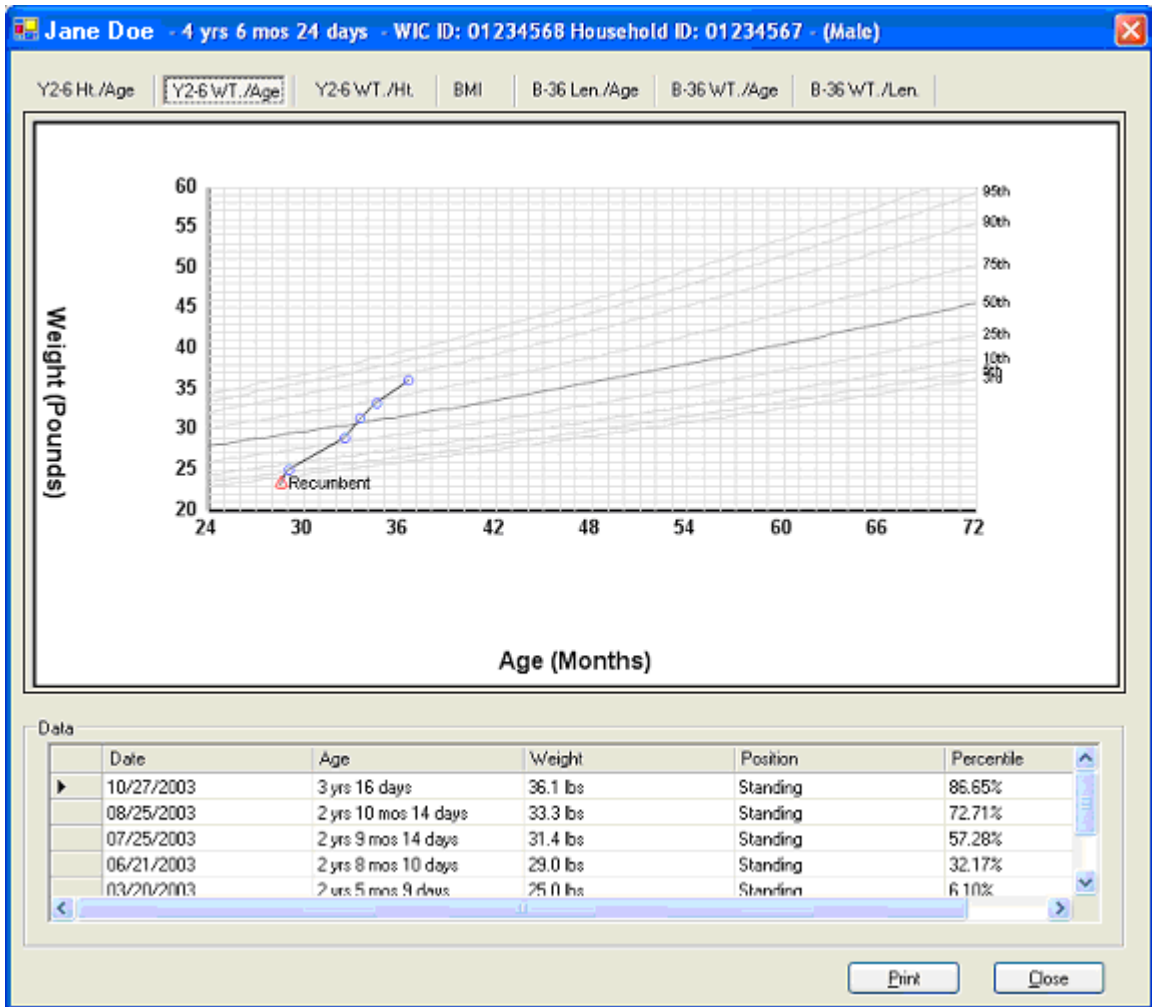


Figure 9 - Weight/Age (2-6 Years) Tab

H.9.1 Controls

This section describes the behavior of the controls on the Weight/Age (2-6 Years) tab.

H.9.1.1 Title (Printed Output Only)

The title will print on the grid to indicate the type of measurements plotted. The title will print as the following literal text:

“<REPORTHEADING> Weight/Age (2-6 Years) - <GENDER>”

The <REPORTHEADING> text is pulled from the REPORTHEADING business rule for the client. The <GENDER> text will be “Boys” if the participant is male or “Girls” if the participant is female.

H.9.1.2 Footnote (Printed Output Only)

The footnote will print on the grid to identify the participant whose measurements are plotted, and to indicate the date on which the growth grid was created. The footnote will display as the text of “Member.LastName, Member.First Name Member.MiddleInitial - Date created: {current system date in MM/DD/CCYY format}”.

H.9.1.3 3rd Percentile Curve

This curve on the growth grid represents the 3rd percentile of weight for age measurements. The curve will display as a gray line from 2 to 6 years. It will be labeled at the right edge of the growth grid.

H.9.1.4 5th Percentile Curve

This curve on the growth grid represents the 5th percentile of weight for age measurements. The curve will display as a gray line from 2 to 6 years. It will be labeled at the right edge of the growth grid.

H.9.1.5 10th Percentile Curve

This curve on the growth grid represents the 10th percentile of weight for age measurements. The curve will display as a gray line from 2 to 6 years. It will be labeled at the right edge of the growth grid.

H.9.1.6 25th Percentile Curve

This curve on the growth grid represents the 25th percentile of weight for age measurements. The curve will display as a gray line from 2 to 6 years. It will be labeled at the right edge of the growth grid.

H.9.1.7 50th Percentile Curve

This curve on the growth grid represents the 50th percentile of weight for age measurements. The curve will display as a prominent gray line from 2 to 6 years. It will be labeled at the right edge of the growth grid.

H.9.1.8 75th Percentile Curve

This curve on the growth grid represents the 75th percentile of weight for age measurements. The curve will display as a gray line from 2 to 6 years. It will be labeled at the right edge of the growth grid.

H.9.1.9 90th Percentile Curve

This curve on the growth grid represents the 90th percentile of weight for age measurements. The curve will display as a gray line from 2 to 6 years. It will be labeled at the right edge of the growth grid.

H.9.1.10 95th Percentile Curve

This curve on the growth grid represents the 95th percentile of weight for age measurements. The curve will display as a gray line from 2 to 6 years. It will be labeled at the right edge of the growth grid.

H.9.1.11 97th Percentile Curve

This curve on the growth grid represents the 97th percentile of weight for age measurements. The curve will display as a gray line from 2 to 6 years. It will be labeled at the right edge of the growth grid.

H.9.1.12 Data Points Collection

The growth grid will contain zero (0) or more data points showing the measurement taken at a particular point in time. The data point will display as a triangle in the color red when it is located above the 90th percentile curve or below the 5th percentile curve for the appropriate plot on the horizontal axis. When it does not fall in these ranges, it will display as a circle in the color blue.

H.9.1.13 Data Point Joining Line

The data points on the growth grid will be connected by a 'joining line' to indicate the growth of the participant. The line will display in black. It will have end points equal to the two adjoining data points that it connects. It will have a slope equal to the difference of the vertical axis divided by the difference of the horizontal axis for the two data points.

H.9.1.14 Vertical Axis

The vertical axis of the growth grid allows the user to reference the scale of the measurements plotted on the growth grid. The axis will have a major division of 5 units and a minor division of 5 units. The minimum value of the axis is 20 and the maximum value is 60. The title for the axis is the text "Weight (Pounds)". It will display in the color black.

H.9.1.15 Horizontal Axis

The horizontal axis of the growth grid allows the user to reference the category of the measurements plotted on the growth grid. The minimum value of the axis is 2 and the maximum value is 6. The title for the axis is the text "Age (Years)". It will display in the color black.

H.9.1.16 Detail Data Grid

The Detail Data Grid will display the detail information for each measurement plot plotted on the chart. The following columns of information will be displayed:

- The participant's measurement date. Double clicking the Grid will toggle the sort order of this date field.
- The participant's age at the date of measurement.
- The participant's weight at the date of measurement.
- The participant's position at the date of measurement.
- The participant's percentile for the given measurements.

H.9.2 Processes

H.9.2.1 Initializing the Interface

Upon selection of the Y2-6 WT/Age Tab, the title bar text will be set to "Member.FirstName Member.MiddleInitial Member.LastName – Age in Years, Months and Days – WIC ID: StateWICID – Household ID: HouseHoldID – (Gender)"

The results are plotted on the grid as defined by the CDC

The grid will display the text "Recumbent" next to the plot point where the child is older than 24 months and measured in a recumbent position.

The Detail Data Grid will display previously saved records for the selected StateWICID as defined by the Detail Data Grid control for this section for all data captured for the Child where the child is 24 months or older.

H.9.2.2 Saving the Data

There are no updateable controls on this dialog; therefore, no additional processes are defined.

H.10 Weight/Height (2-6 Years) Tab

The Weight/Height (2-6 Years) tab allows the user to view the Weight/Height growth grid for a child between 2 and 6 years of age and optionally print it. This section describes the on-screen view of the grid as well as the printed output. The tab is invoked when the user selects the Weight/Height (2-6 Years) tab of the Child Growth Grids folder. The values displayed will be appropriate for the gender of the participant.

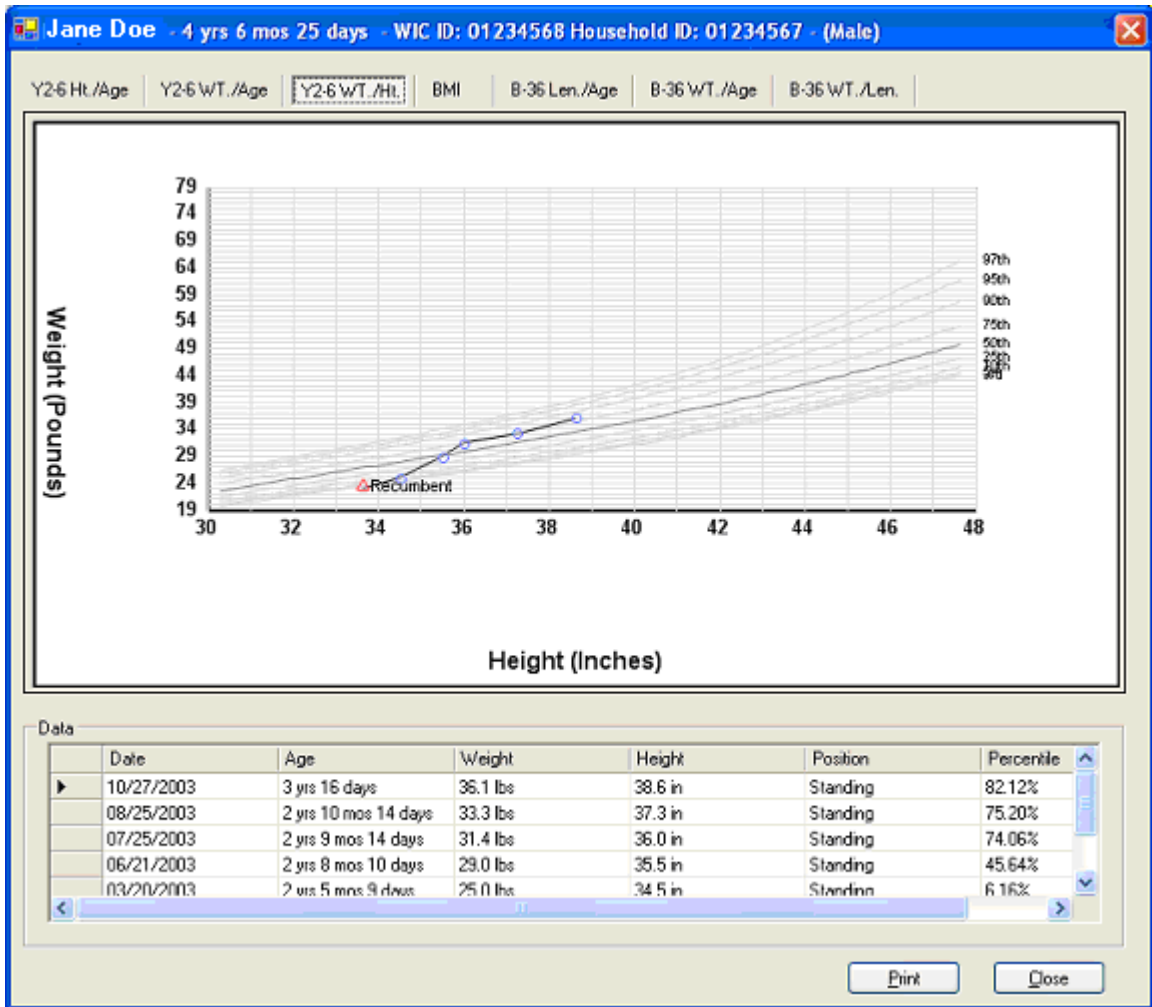


Figure 10 - Weight/Height (2-6 Years) Tab

H.10.1 Controls

This section describes the behavior of the controls on the Weight/Height (2-6 Years) tab.

H.10.1.1 Title (Printed Output Only)

The title will print on the grid to indicate the type of measurements plotted. The title will print as the following literal text:

“<REPORTHEADING> Weight/Height (2-6 Years) - <GENDER>”

The <REPORTHEADING> text is pulled from the REPORTHEADING business rule for the client. The <GENDER> text will be “Boys” if the participant is male or “Girls” if the participant is female.

H.10.1.2 Footnote (Printed Output Only)

The footnote will print on the grid to identify the participant whose measurements are plotted, and to indicate the date on which the growth grid was created. The footnote will display as the text of “Member.LastName, Member.First Name Member.MiddleInitial. - Date created: {current system date in MM/DD/CCYY format}”.

H.10.1.3 3rd Percentile Curve

This curve on the growth grid represents the 3rd percentile of weight for Height measurements. The curve will display as a gray line from 29.5 to 47.6 inches. It will be labeled at the right edge of the growth grid.

H.10.1.4 5th Percentile Curve

This curve on the growth grid represents the 5th percentile of weight for Height measurements. The curve will display as a gray line from 29.5 to 47.6 inches. It will be labeled at the right edge of the growth grid.

H.10.1.5 10th Percentile Curve

This curve on the growth grid represents the 10th percentile of weight for Height measurements. The curve will display as a gray line from 29.5 to 47.6 inches. It will be labeled at the right edge of the growth grid.

H.10.1.6 25th Percentile Curve

This curve on the growth grid represents the 25th percentile of weight for Height measurements. The curve will display as a gray line from 29.5 to 47.6 inches. It will be labeled at the right edge of the growth grid.

H.10.1.7 50th Percentile Curve

This curve on the growth grid represents the 50th percentile of weight for Height measurements. The curve will display as a prominent gray line from 29.5 to 47.6 inches. It will be labeled at the right edge of the growth grid.

H.10.1.8 75th Percentile Curve

This curve on the growth grid represents the 75th percentile of weight for Height measurements. The curve will display as a gray line from 29.5 to 47.6 inches. It will be labeled at the right edge of the growth grid.

H.10.1.9 90th Percentile Curve

This curve on the growth grid represents the 90th percentile of weight for Height measurements. The curve will display as a gray line from 29.5 to 47.6 inches. It will be labeled at the right edge of the growth grid.

H.10.1.10 95th Percentile Curve

This curve on the growth grid represents the 95th percentile of weight for Height measurements. The curve will display as a gray line from 29.5 to 47.6 inches. It will be labeled at the right edge of the growth grid.

H.10.1.11 97th Percentile Curve

This curve on the growth grid represents the 97th percentile of weight for Height measurements. The curve will display as a gray line from 29.5 to 47.6 inches. It will be labeled at the right edge of the growth grid.

H.10.1.12 Data Points Collection

The growth grid will contain zero (0) or more data points showing the measurement taken at a particular point in time. The data point will display as a triangle in the color red when it is located above the 90th percentile curve or below the 5th percentile curve for the appropriate plot on the horizontal axis. When it does not fall in these ranges, it will display as a circle in the color blue.

H.10.1.13 Data Point Joining Line

The data points on the growth grid will be connected by a 'joining line' to indicate the growth of the participant. The line will display in black. The line will display in the color black. It will have end points equal to the two adjoining data points that it connects. It will have a slope equal to the difference of the vertical axis divided by the difference of the horizontal axis for the two data points.

H.10.1.14 Vertical Axis

The vertical axis of the growth grid allows the user to reference the scale of the measurements plotted on the growth grid. The axis will have a major division of 5 units and a minor division of 5 units. The minimum value of the axis is 19 and the maximum value is 79. The title for the axis is the text "Weight (Pounds)". It will display in the color black.

H.10.1.15 Horizontal Axis

The horizontal axis of the growth grid allows the user to reference the category of the measurements plotted on the growth grid. The minimum value of the axis is 30.3 and the maximum value is 47.6. The title for the axis is the text “Height (Inches)”. It will display in the color black.

H.10.1.16 Detail Data Grid

The Detail Data Grid will display the detail information for each measurement plot plotted on the chart. The following columns of information will be displayed:

- The participant’s measurement date. Double clicking the Grid will toggle the sort order of this date field.
- The participant’s age at the date of measurement.
- The participant’s weight at the date of measurement.
- The participant’s height at the date of measurement.
- The participant’s position at the date of measurement.
- The participant’s percentile for the given measurements.

H.10.2 Processes

H.10.2.1 Initializing the Interface

Upon selection of the Y2-6 WT./Ht. Tab, the title bar text will be set to “Member.FirstName Member.MiddleInitial Member.LastName – Age in Years, Months and Days – WIC ID: StateWICID – Household ID: HouseHoldID – (Gender)”

The results are plotted on the grid as defined by the CDC

The grid will display the text “Recumbent” next to the plot point where the child is older than 24 months and measured in a recumbent position.

The Detail Data Grid will display previously saved records for the selected StateWICID as defined by the Detail Data Grid control for this section for all data captured for the Child where the child is 24 months or older.

H.10.2.2 Saving the Data

There are no updateable controls on this dialog; therefore, no additional processes are defined.

H.11 BMI (Body Mass Index) Tab

The BMI tab allows the user to view the Body Mass Index grid for a child between 2 and 6 years of age and optionally print it. This section describes the on-screen view of the grid as well as the printed output. The tab is invoked when the user selects the BMI tab of the Child Growth Grids folder. The values displayed will be appropriate for the gender of the participant and have a measurement position of “Standing”.

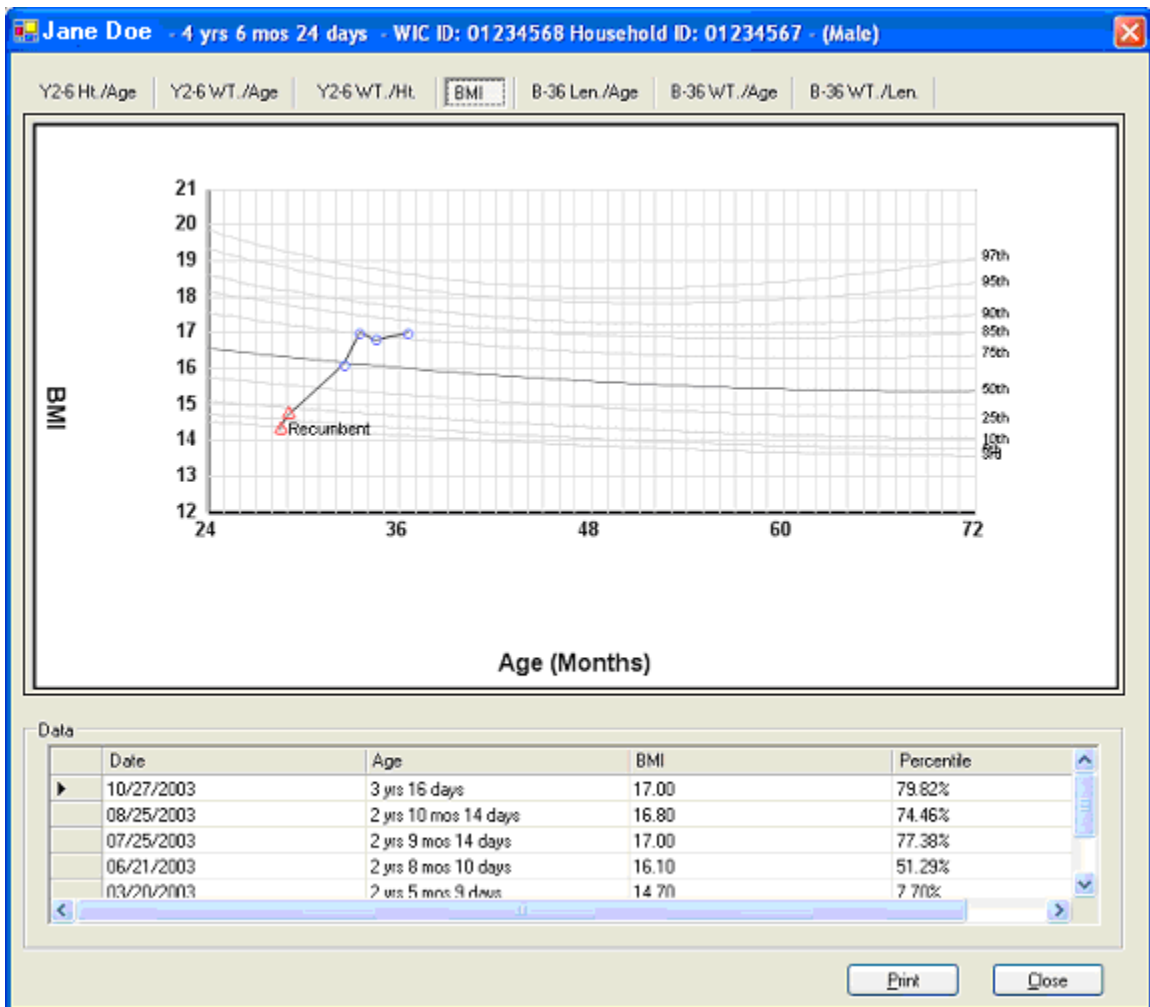


Figure 11 - BMI Tab

H.11.1 Controls

This section describes the behavior of the controls on the BMI (Body Mass Index) tab.

H.11.1.1 Title (Printed Output Only)

The title will print on the grid to indicate the type of measurements plotted. The title will print as the following literal text:

“<REPORTHEADING> BMI - <GENDER>”

The <REPORTHEADING> text is pulled from the REPORTHEADING business rule for the client. The <GENDER> text will be “Boys” if the participant is male or “Girls” if the participant is female.

H.11.1.2 Footnote (Printed Output Only)

The footnote will print on the grid to identify the participant whose measurements are plotted, and to indicate the date on which the growth grid was created. The footnote will display as the text of “Member.LastName, Member.First Name Member.MiddleInitial. - Date created: {current system date in MM/DD/CCYY format}”.

H.11.1.3 3rd Percentile Curve

This curve on the growth grid represents the 3rd percentile of the Body Mass Index for the corresponding age of the participant at the time of measurement. The curve will match the data provided by the Centers for Disease Control (CDC).

H.11.1.4 5th Percentile Curve

This curve on the growth grid represents the 5th percentile of the Body Mass Index for the corresponding age of the participant at the time of measurement. The curve will match the data provided by the Centers for Disease Control (CDC).

H.11.1.5 10th Percentile Curve

This curve on the growth grid represents the 10th percentile of the Body Mass Index for the corresponding age of the participant at the time of measurement. The curve will match the data provided by the Centers for Disease Control (CDC).

H.11.1.6 25th Percentile Curve

This curve on the growth grid represents the 25th percentile of the Body Mass Index for the corresponding age of the participant at the time of measurement. The curve will match the data provided by the Centers for Disease Control (CDC).

H.11.1.7 50th Percentile Curve

This curve on the growth grid represents the 50th percentile of the Body Mass Index for the corresponding age of the participant at the time of measurement. The curve will match the data provided by the Centers for Disease Control (CDC).

H.11.1.8 75th Percentile Curve

This curve on the growth grid represents the 75th percentile of the Body Mass Index for the corresponding age of the participant at the time of measurement. The curve will match the data provided by the Centers for Disease Control (CDC).

H.11.1.9 90th Percentile Curve

This curve on the growth grid represents the 90th percentile of the Body Mass Index for the corresponding age of the participant at the time of measurement. The curve will match the data provided by the Centers for Disease Control (CDC).

H.11.1.10 95th Percentile Curve

This curve on the growth grid represents the 95th percentile of the Body Mass Index for the corresponding age of the participant at the time of measurement. The curve will match the data provided by the Centers for Disease Control (CDC).

H.11.1.11 97th Percentile Curve

This curve on the growth grid represents the 97th percentile of the Body Mass Index for the corresponding age of the participant at the time of measurement. The curve will match the data provided by the Centers for Disease Control (CDC).

H.11.1.12 Data Points Collection

The growth grid will contain zero (0) or more measurement data points based upon the participant's BMI index and their age at the time of measurement. The data point will be marked as a blue circle if within the bounds of the 10th and 85th percentiles. The data point will be marked as a red triangle if it falls outside of the above percentile boundaries.

H.11.1.13 Data Point Joining Line

The data points on the growth grid will be connected by a 'joining line' to indicate the growth of the participant. The line will display in black. It will have end points equal to the two adjoining data points that it connects.

H.11.1.14 Vertical Axis

The vertical axis of the growth grid allows the user to reference the scale of the Body Mass indices plotted on the growth grid. The axis will range from 12 to 21 in increments of 0.2. The title for the axis will be "BMI". It will display in the color black.

H.11.1.15 Horizontal Axis

The horizontal axis of the growth grid allows the user to reference the age of the Participant at the time of measurement. The axis will range from 2 to 6 years in increments of 1 month. The title for the axis is the text “Age (Years)”. It will display in the color black.

H.11.1.16 Detail Data Grid

The Detail Data Grid will display the detail information for each measurement plot plotted on the chart. The following columns of information will be displayed:

- The participant’s measurement date. Double clicking the Grid will toggle the sort order of this date field.
- The participant’s age at the date of measurement.
- The participant’s BMI at the date of measurement.
- The participant’s percentile for the given measurements.

H.11.2 Processes

H.11.2.1 Initializing the Interface

Upon selection of the BMI Tab, the title bar text will be set to “Member.FirstName Member.MiddleInitial Member.LastName – Age in Years, Months and Days – WIC ID: StateWICID – Household ID: HouseHoldID – (Gender)”

The results are plotted on the grid as defined by the CDC

The grid will display the text “Recumbent” next to the plot point where the child is older than 24 months and measured in a recumbent position.

The Detail Data Grid will display previously saved records for the selected StateWICID as defined by the Detail Data Grid control for this section.

H.11.2.2 Saving the Data

There are no updateable controls on this dialog; therefore, no additional processes are defined.

H.12 Prenatal Weight Gain Grid Display

The Prenatal Weight Gain Grid Display dialog allows the user to view the prenatal weight gain grid for the height/weight measurements taken during the pregnancy period for a participant with the WIC Category of Pregnant. Additionally, the grid can be viewed for the height/weight measurements taken during the average 277 day duration of a pregnancy for a female participant with the WIC Category of Breastfeeding or Non-breastfeeding if she was certified as Pregnant during the most recent pregnancy. This section describes the on-screen view of the grid as well as the printed output.

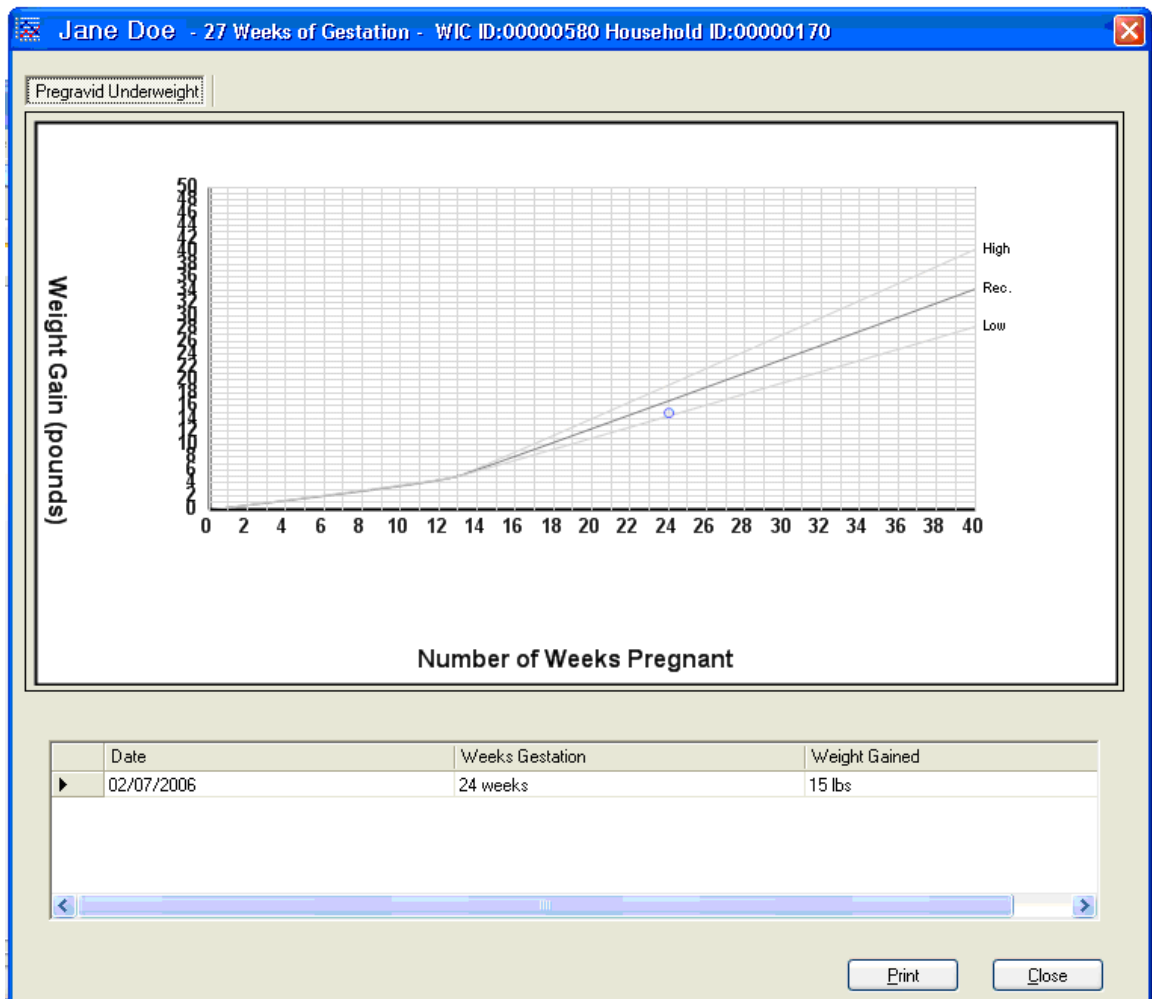


Figure 12 - Pregravid Underweight Grid Display Dialog

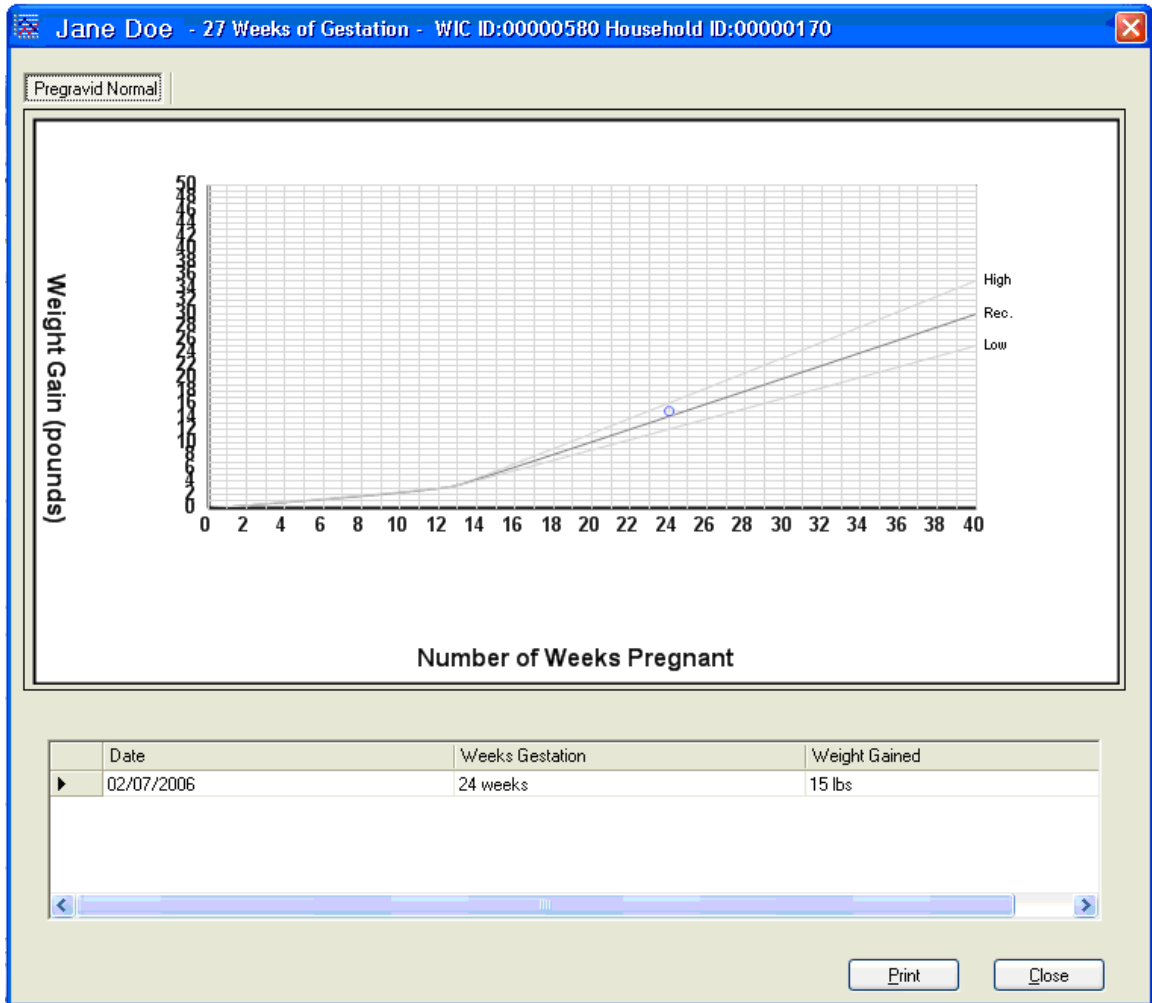


Figure 13 - Pregravid Overweight Grid Display Dialog

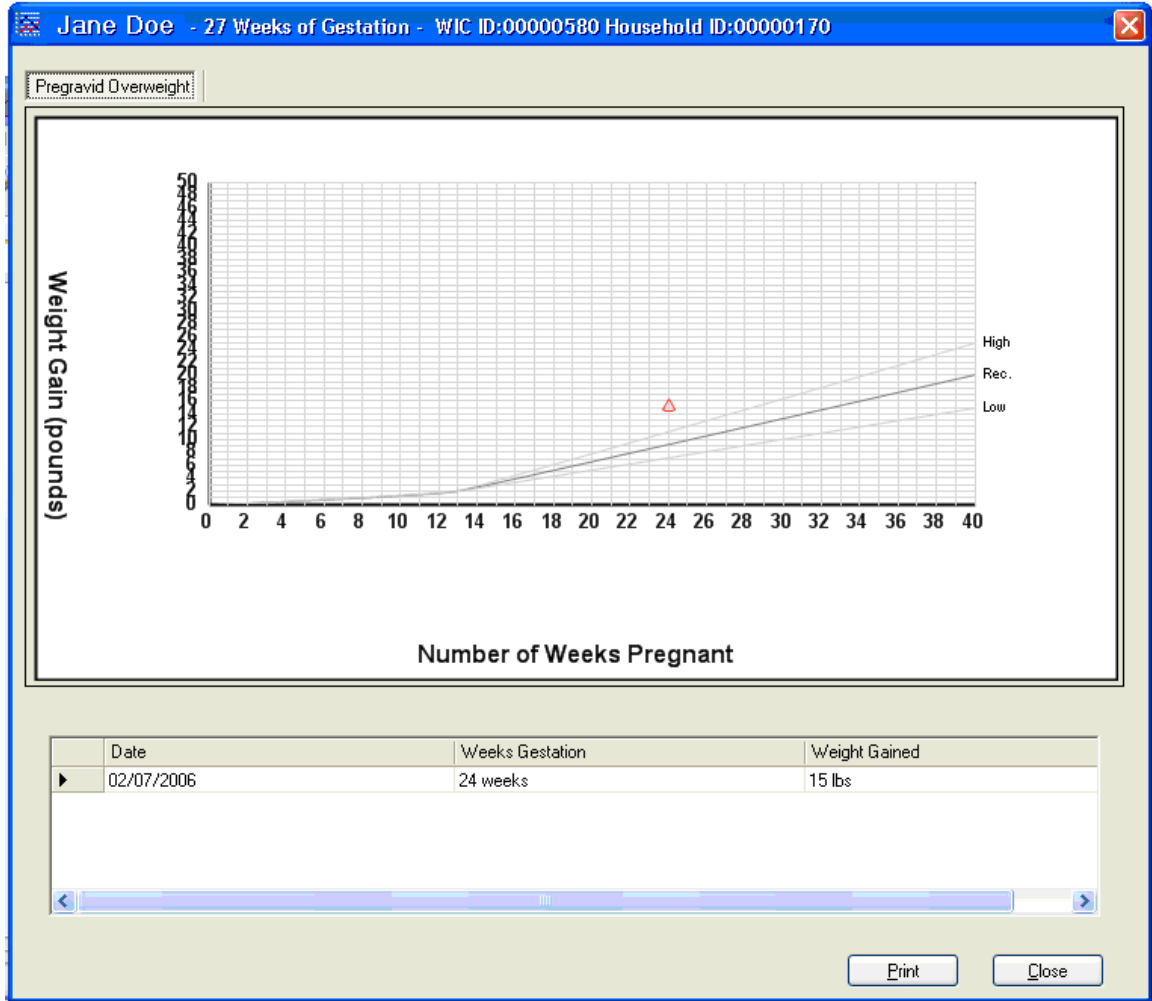


Figure 14 - Pregravid Overweight Grid Display Dialog

H.12.1 Controls

This section describes the behavior of the controls on the Prenatal Weight Gain Grid Display dialog.

H.12.1.1 Title (Printed Output Only)

The title will print on the grid to indicate the type of measurements plotted. The title will print as the literal text to represent the grid. If the participant is plotted as underweight, the text will print the following:

“<REPORTHEADING> Pregravid Underweight”

If the participant is plotted as normal weight, the text will print the following:

“<REPORTHEADING> Pregravid Normal”

If the participant is plotted as overweight, the text will print the following:

“<REPORTHEADING> Pregravid Overweight”.

The <REPORTHEADING> text is pulled from the REPORTHEADING business rule for the client.

H.12.1.2 Footnote (Printed Output Only)

The footnote will print on the grid to identify the participant whose measurements are plotted, and to indicate the date on which the growth grid was created. The footnote will display as the text of “Member.LastName, Member.First Name Member.MiddleInitial. - Date created: {current system date in MM/DD/CCYY format}”.

H.12.1.3 Low, Recommended and High Curves

There will be 3 curves printed on the prenatal growth grid from bottom line to top with additional text to represent Low, Recommended and High. The bottom line will display text of ‘Low’. The middle line will display text of ‘Rec.’ (for recommended) and the top line will display text of ‘High’.

H.12.1.4 Data Points Collection

The growth grid will contain zero (0) or more data points showing the measurement taken at a particular point in time. The data point will display as a triangle in the color red when it is located above the 90th percentile curve or below the 5th percentile curve for the appropriate plot on the horizontal axis. When it does not fall in these ranges, it will display as a circle in the color blue.

H.12.1.5 Data Point Joining Line

The data points on the growth grid will be connected by a ‘joining line’ to indicate the growth of the participant. The line will display in black. It will have end points equal to the two adjoining data points that it connects. It will have a slope equal to the difference of the vertical axis divided by the difference of the horizontal axis for the two data points.

H.12.1.6 Vertical Axis

The vertical axis of the growth grid allows the user to reference the scale of the measurements plotted on the growth grid. The axis will have a major division of 7 units and a minor division of 6 units. The minimum value of the axis is 0 and the maximum value is 42. The title for the axis is the text “Weight (Pounds)”. It will display in the color black.

H.12.1.7 Horizontal Axis

The horizontal axis of the growth grid allows the user to reference the category of the measurements plotted on the growth grid. The minimum value of the axis is 0 and the maximum value is 42. The title for the axis is the text “Weeks Gestation”. It will display in the color black.

H.12.1.8 Detail Data Grid

The Detail Data Grid will display the detail information for each measurement plot plotted on the chart. The following columns of information will be displayed:

- The participant’s measurement date. Double clicking the Grid will toggle the sort order of this date field.
- The participant’s weeks gestation at the date of measurement.
- The participant’s weight gained at the date of measurement.

H.12.2 Processes

H.12.2.1 Initializing the Interface

Upon initial display of the Prenatal Weight Gain Growth Grid dialog, the Prenatal WT. Gain tab will be displayed with the results plotted on the grid as defined by the CDC.

The title bar text will be set to “Member.FirstName Member.MiddleInitial Member.LastName – Number Weeks Gestation – WIC ID: StateWICID – Household ID: HouseHoldID”

The tab loaded on the grid will reflect one of three weight charts defined by the participant's pre-pregnancy height and weight.

- If the participant is plotted as underweight, the tab text will read “Pregravid Underweight”.
- If the participant is plotted as normal weight, the tab text will read “Pregravid Normal”.
- If the participant is plotted as overweight, the tab text will read “Pregravid Overweight”.

There will be 3 curves displayed on the prenatal growth grid from bottom line to top. The bottom line will display text of ‘Low’. The middle line will display text of ‘Rec.’ (for recommended) and the top line will display text of ‘High’

The Detail Data Grid will display previously saved records for the selected StateWICID for the current pregnancy..

H.12.2.2 Saving the Data

There are no updateable controls on this dialog; therefore, no additional processes are defined.