Module Four:
Entering NT Data Into SIS
Introduction – Entering NT Data

The *Enter NT Data* screen will enable you to enter NT data into SIS. From this screen, you will also be able to view or print the case interpretation. These functions will be discussed in greater detail in this module.

This module, addressing entering NT data into SIS, will cover:

- Which data fields are required.
- Validation rules for each data field
The Enter NT Data Screen

The Enter NT Data screen has numerous data fields. The top portion of the screen, including Client Name, Date of Birth, TRF #, Accession #, Practitioner Credential #, and NT Practitioner Name will be filled in by SIS. Check the displayed data to ensure that the correct patient record has been accessed.
Data Entry – Required Fields

You will be entering data into the lower part of the screen. The following fields are required in order for SIS to interpret the case:

- **NT Exam Date**
- **Is this a twin pregnancy?**
- **CRL Measurement**
- **NT Measurement**

If you select **Yes** to the question about twins, you must also indicate chorionicity and enter NT data for the second fetus.
In the case of twins, if you are unable to measure either the NT or the CRL for one of the fetuses, check the appropriate “Unable to Measure” checkbox. The “Unable to Measure” checkboxes are only activated if you have indicated a twin pregnancy. For single fetus cases, you must fill in both NT and CRL measurements in order for the data to be valid.

For twin pregnancies, complete data (both NT and CRL measurements) must be entered for at least one fetus in order for the NT data to be valid.
Data Entry – Optional Fields

There are additional fields on the screen that are not required:

- **Supervisor Credential #**
- **NT Site ID**
- **NT Site Name**

GDSP collects this data for quality assurance purposes. However, the data can be saved and the case interpreted even if these fields are left blank.
Data Validation

SIS requires that data be entered in a specific format and that data fall within a valid range. The following rules apply to the data fields indicated:

<table>
<thead>
<tr>
<th>Field</th>
<th>Rules: Format or Range</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>NT Exam Date</strong></td>
<td><strong>Format:</strong> <em>NT Exam Date</em> must be entered in MM-DD-YYYY format.</td>
</tr>
<tr>
<td></td>
<td><strong>Range:</strong> Future dates cannot be entered.</td>
</tr>
<tr>
<td><strong>CRL Measurement</strong></td>
<td><strong>Range:</strong> <em>CRL Measurement</em> must be between 44.6 mm – 84.5 mm (for a gestational age range of 11 weeks 2 days – 14 weeks 2 days) <strong>Note:</strong> CRL Measurement between 9.5 mm – 44.5 mm can be used for gestational dating, but cannot be entered here for use in case interpretation. Reschedule the NT Exam for a later date. Convert the CRL into gestational age (weeks/days) and send this information to the referring clinician.</td>
</tr>
<tr>
<td><strong>NT Measurement</strong></td>
<td><strong>Range:</strong> <em>NT Measurement(s)</em> must be between 0.1 mm and 20.0 mm.</td>
</tr>
<tr>
<td><strong>Supervisor Credential #</strong></td>
<td><strong>Format:</strong> <em>Supervisor Credential #</em> must either be a 5 or 6-digit number if provided to you by FMF or a ‘P’ followed by a 5-digit number if provided by NTQR (i.e. P99999).</td>
</tr>
<tr>
<td><strong>NT Site ID</strong></td>
<td><strong>Format:</strong> <em>NT Site ID</em> must begin with an ‘S’ and be followed by five digits.</td>
</tr>
</tbody>
</table>

* Optional fields
CRL Measurement Error Messages

The following rules apply to the *CRL Measurement* field:

<table>
<thead>
<tr>
<th>CRL Measurement</th>
<th>Error Message</th>
<th>Resulting NT Practitioner Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt; 9.5 mm</td>
<td>“CRL out of range.”</td>
<td>Verify data entry.</td>
</tr>
</tbody>
</table>
| 9.5 mm – 44.5 mm| “Patient gestational age is out of range for use of NT in risk assessment.” | Have the patient reschedule the NT exam and send current dating information to the referring physician.  
**NOTE:** The screening result for a case with a large (≥3.0 mm) NT measurement will be *Large NT: Screen Positive* even in this CRL range. Call the Case Coordinator to report the NT data. Your patient is eligible for follow-up services at this time. |
| 44.6 mm – 84.5 mm| No warning or error. | n/a |
| > 84.5 mm       | “Patient gestational age is out of range for use of NT in risk assessment.” | Use BPD to calculate gestational age and send dating information to the referring physician for use with second trimester screening. |
Data Entry Checks

SIS will validate the format of the data as it is entered. If you attempt to enter data in the incorrect format, SIS will display a warning message indicating that you should return to the field and correct the entry.

In addition, SIS will not accept future exam dates.
Missing Data

Once you have entered all of the case data, click **Save**.

If any required fields are missing, SIS will display a warning message requiring that you complete the entry before the data can be saved.
If the Gestational Age as of the present date (calculated based on the CRL measurement you have entered), is greater than 15 weeks and 2 days, you will **not** be able to save the NT data. SIS will display a message: “Based on the CRL, the GA today is greater than 15 weeks 2 days. Please send the NT data to the referring clinician or the case coordinator…”
Saving Data

If all data is valid and entered in the correct format, SIS will display a message asking you to confirm that the data is correct.

Once you have clicked **OK**, SIS will save the data, and you will be unable to make further changes without calling a Case Coordinator.
After the Data is Saved

Once the data is entered, saved, and the session is terminated by logging out, any subsequent attempts to access this case (by TRF # or Accession #) will result in the following outcomes:

<table>
<thead>
<tr>
<th>If you have…</th>
<th>This Occurs…</th>
<th>Additional Information</th>
</tr>
</thead>
</table>
| The TRF # or Accession # for the patient **and** the Credential ID for the NT Practitioner who conducted the original exam… | The *Data Entry* screen appears.  
• The data fields will be filled out.  
• The screen will be in “read-only” format. | • The *Save* button will be inactivated so that the data cannot be re-saved.  
• The *View/Refresh Interps* button will be active to allow access and printing of the interpretation. |
| The TRF # or Accession # for the patient **but** you enter a Credential ID which does not match the NT Practitioner who conducted the original exam… | SIS will return an error message: “NT Data has already been entered for this case. Please call the case coordinator…” | N/A |
| The TRF # or Accession # for the patient **and** the correct Credential ID, **but** the NT data was entered into SIS by the Case Coordinator… | SIS will return an error message: “NT Data has already been entered for this case. Please call the case coordinator…” | Note: If data has been submitted on a TRF and you have the Credential ID for the NT Practitioner who conducted the original exam, you will be able to access and edit the NT data in SIS. |
The *NT Data Entry* Screen enables you to enter NT data to view case interpretation.

SIS cannot use data with missing or invalid fields for risk assessment. Fields with missing or invalid data cannot be saved.

Check the data before clicking **Save**. Once SIS confirms data validity and saves the data, you will be unable to make changes to entered data without contacting the Case Coordinator.
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You have just completed Module 4. Return to the NT Practitioners Training. Continue to Module 5.