THE INFANT FOLLOW-UP PROJECT

Extremely-Low-Birth-Weight Infant
Birth Year 2012 Cohort
for infants born between January 1, 2012 and December 31, 2012

MANUAL OF OPERATIONS

THE VERMONT OXFORD NETWORK

July 2013

Version 15

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THE INFANT FOLLOW-UP PROJECT
ELBW Infant - Birth Year 2012 Cohort

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Infant Eligibility for the ELBW Infant Follow-up: Birth Year 2012 Cohort

For 2005 and subsequent cohort years, eligibility criteria for the ELBW Infant Follow-up includes infants whose birth weights are between 401 and 1000 grams (inclusive) OR whose gestational ages are between 22 weeks, 0 days and 27 weeks, 6 days (inclusive). This change reflects a 2005 revision to the VON VLBW Database Eligibility criteria. This change will allow ELBW Infant Follow up to include the entire population of infants between 22 and 27 weeks gestation.

Examples

<table>
<thead>
<tr>
<th>Date of Birth</th>
<th>Birth Weight</th>
<th>Gestational Age (Weeks/Days)</th>
<th>Eligibility Year 2012 Cohort</th>
</tr>
</thead>
<tbody>
<tr>
<td>December 30, 2011</td>
<td>500</td>
<td>25</td>
<td>No</td>
</tr>
<tr>
<td>January 5, 2012</td>
<td>400</td>
<td>21/6</td>
<td>No</td>
</tr>
<tr>
<td>January 5, 2012</td>
<td>400</td>
<td>22/0</td>
<td>Yes</td>
</tr>
<tr>
<td>January 5, 2012</td>
<td>401</td>
<td>22/0</td>
<td>Yes</td>
</tr>
<tr>
<td>January 5, 2012</td>
<td>380</td>
<td>22/0</td>
<td>Yes</td>
</tr>
<tr>
<td>January 5, 2012</td>
<td>1000</td>
<td>28/0</td>
<td>Yes</td>
</tr>
<tr>
<td>January 5, 2012</td>
<td>1001</td>
<td>28/0</td>
<td>No</td>
</tr>
<tr>
<td>January 5, 2012</td>
<td>1001</td>
<td>27/6</td>
<td>Yes</td>
</tr>
<tr>
<td>January 5, 2012</td>
<td>1100</td>
<td>27/6</td>
<td>Yes</td>
</tr>
</tbody>
</table>
I. INTRODUCTION

New approaches for both the obstetrical management of preterm birth and the neonatal care of the premature infant have resulted in the decreased mortality of infants at lower birth weights and gestational ages (2,5,8,9,10,22,26,27,28). This decrease in mortality occurred primarily in the early 1990s with no significant improvement in survival after 1995 (17). The more widespread use of antenatal glucocorticoid treatment for women at risk for preterm delivery (23,31,32), and surfactant therapy for the prevention and treatment of neonatal respiratory distress syndrome (18,19,25) were two practice approaches significantly contributing to improved survival of the premature infant.

Conversely a practice approach that did not contribute to increased survival and may have contributed to increased morbidity of the premature infant was the use of postnatal corticosteroids (dexamethasone) for the prevention and treatment of chronic lung disease. At the peak of their use in the late 1990s, postnatal corticosteroids were administered to as many as 28.5% of very low birth weight (VLBW) infants enrolled in the Vermont Oxford Network (17) and 25% of VLBW infants enrolled in the Canadian Neonatal Network (21). However, at a similar time, reports of early follow-up of extremely low birth weight infants exposed to corticosteroid therapy began to associate postnatal steroid use with developmental motor delays and cerebral palsy (1,3,20,24,33). These reports increased the awareness of the importance of follow-up outcomes assessment in randomized controlled trials and suggested standardized provision of follow-up services for high risk infants were needed.

As a group, extremely low birth weight (ELBW) infants are known to be at high risk for subnormal growth, medical illnesses, and neuro-developmentally based disabilities. The spectrum of developmentally based disabilities include a range of issues in cognition and neuromotor functioning from learning and attention disabilities to the more severe issues of mental retardation and cerebral palsy. Hack and coworkers, reporting on the outcome of surviving infants with birth weights less than 750 grams (11,13) note that thirty percent of survivors born at 23 weeks gestation are severely disabled. At 24 weeks gestation the rate of severe neurodevelopmental disability ranged from 17% to 45%, and at 25 weeks gestation 12% to 35% are similarly affected. Work of the Vermont Oxford Network Extremely Low Birth Weight Infant Follow-up further demonstrates the high risk for severe neuro-developmental disability among such infants enrolled at select VON centers (36).
II. INFANT FOLLOW-UP PROJECT OVERVIEW

A. Purpose

The purpose of the Infant Follow-up Project is to determine the health and neurodevelopmental outcomes of infants at 2 years of age. Follow-up for extremely low birth weight infants is inclusive of surviving infants with birth weights between 401 and 1000 grams (inclusive) OR with gestational ages between 22 weeks, 0 days and 27 weeks, 6 days (inclusive). Follow-up for these infants occurs at 2 years corrected age. Follow-up for infants enrolled in Vermont Oxford Network clinical trials is specific to infants enrolled in that clinical trial.

B. Goals

- To link Neonatal Intensive Care Units and their Follow-up Clinics.
- To provide a method to evaluate the impact of perinatal events and neonatal interventions on short-term outcome status.
- To provide “gold standard” data collection sets for future testing of simplified follow-up tools.
- To describe, for extremely-low-birth-weight infants, the 2 year corrected age health and developmental status of surviving infants at participating Vermont Oxford Network Centers.
- To describe, for infants enrolled in a Vermont Oxford Network clinical trial, the 2 year health and developmental status of enrolled infants.

C. Center Eligibility

- The Center has contributed to the VON VLBW database from January 1, 2012.
- The Center is affiliated with a Follow-up Clinic which assesses all surviving ELBW infants cared for at the Center. Infant follow up assessment must be at least through two years corrected age and routinely use either the Bayley Scales of Infant Development 3rd edition (BSID-III), or the Griffiths Mental Development Scales Revised 0 - 2 Years (GMDS).
- The Center designates one specific Project Coordinator to manage data submission.
- The Center obtains local Institutional Review Board (IRB) approval for the project.

D. Extremely-Low-Birth-Weight Infant Eligibility

- The infant was born between January 1, 2012 and December 31, 2012;
- The infant had a birth weight of between 401 to 1000 grams (inclusive); OR
• The infant had a gestational age of between 22 weeks, 0 days and 27 weeks, 6 days (inclusive);

• The infant survived until ultimate hospital discharge; and

• Parental consent for participation, as determined by local IRB approval, is obtained.

E. Outcome Measures

• Home Living Situation: the type of living situation, and educational level of the primary caregiver.

• Health Status: survival status, support after discharge, medical re-hospitalizations, and surgical procedures for the infant.

• Developmental Status: growth parameters, visual and auditory impairments, the presence of cerebral palsy, achievement of gross motor milestones, and results of the Bayley Scales of Infant Development 3rd Edition (BSID-III) or the Griffiths Mental Development Scales Revised 0-2 Years (GMDS) for the infant.

F. Version 15 updates: Overview

Version 15 of the Health Status Report and the Developmental Status Report forms require an indication of whether follow-up is being conducted for the Extremely-Low-Birth-Weight Infant Follow-up Study, or a specific Vermont Oxford Network clinical trial, or both.

G. Version 15 updates: Health Status Report

The data items collected for the Health Status Report are unchanged from Version 14. However, the Sections B, C and D have been re-formatted.

In Section B: Living Situation, question 8 has been updated to reflect income levels as amended in the 2012 Health and Human Services (HHS) Poverty Guidelines (35).

In Section C: Support after discharge, the section has been re-designed to clarify and facilitate data collection.

In Section D: Medical Re-hospitalizations and surgeries, the section has been sub divided to two parts. The new Section D now specific to medical re-hospitalizations. A new section, Section E, was created to collect data specific to surgical procedures after ultimate hospital discharge.
H. Version 15 updates: Developmental Status Report

Although the overall format of the Developmental Status Report remains unchanged, Section E has been modified. This modification allows the option of using either the BSID-III, or the GMDS to report neurodevelopmental testing. It is expected that North American centers will continue to use the BSID-III as an assessment tool, while European centers will likely use the GMDS. Table 2 summarizes these changes.

Table 2. Changes to the Developmental Status Report in Version 15.

<table>
<thead>
<tr>
<th>SECTION E: Developmental Testing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Question 13. Developmental Evaluation</td>
</tr>
<tr>
<td>Check “Completed”, “Partially completed”, or “Not done”</td>
</tr>
<tr>
<td>a. IF partially completed or not done, check (√) why</td>
</tr>
<tr>
<td>Check “Neurosensory impairment”, “Too severely delayed”, “Uncooperative”, or “Other”</td>
</tr>
<tr>
<td>b. IF completed or partially completed, check (√) which test</td>
</tr>
<tr>
<td>Check “Bayley Scales of Infant Development-III”, “Griffiths Mental Development Scales”, or “Other”</td>
</tr>
<tr>
<td>Question 14. Corrected Age Used in Scoring (months/days)</td>
</tr>
<tr>
<td>Enter the corrected age in months and days</td>
</tr>
<tr>
<td>Question 15. Results (BSID-III)</td>
</tr>
<tr>
<td>Enter the (sum) scaled score and the composite score for each subtest performed</td>
</tr>
<tr>
<td>Question 16. Results (GMDS)</td>
</tr>
<tr>
<td>Enter the uncorrected score and the corrected score for each subtest performed</td>
</tr>
</tbody>
</table>

As of 2013 (Birth Year 2011 cohort), results of testing using the Bayley Scales of Infant Development 2nd Edition (BSID-II) were no longer accepted.

I. Parental Interview and Reporting Questionnaire

Infants enrolled in the ELBW Infant Follow-up Project are eligible to have the Parental Interview and Reporting Questionnaire (PIRQ) completed at the time of the 2 year corrected age follow-up visit. The Parental Interview and Reporting Questionnaire can be completed face-to-face at the time of the follow-up visit OR by phone for families who are unable to attend a scheduled follow-up visit. Please refer to the Parental Interview and Reporting Questionnaire Manual of Operations for further details.

When completed face-to-face at the follow-up visit, the Parental Interview and Reporting Questionnaire is completed independently of the follow-up evaluation. Data collected by the Parental Interview and Reporting Questionnaire supplements data collected for the ELBW
Infant Follow-up Project Health Status Report and the Developmental Status Report. The Parental Interview and Reporting Questionnaire does not replace the Health Status Report or the Developmental Status Report.

When the Parental Interview and Reporting Questionnaire is completed by phone, two (2) additional questions are asked of the parent. The first question asks why the follow-up clinic visit was not completed: the parent may choose one or all of several possible reasons. The second question asks if the parent would like to re-schedule the follow-up visit. Data collected for the Parental Interview and Reporting Questionnaire by phone does not substitute for the follow-up visit evaluation, and is not to be considered medical care.

For Network Centers using the Parental Interview and Reporting Questionnaire either at the follow-up visit or phone to, local Institutional Review Board (IRB) approval must be obtained. Most commonly, approval will be obtained by submitting an addendum to the IRB approval received for participating in the Infant Follow-up Project. Each participating Network Center should submit a copy of the addendum to their current IRB approval for the Infant Follow-up Project. The VON Clinical Trials & Follow-up Data Coordinating Center must have a copy of this addendum before any data may be collected.

### III. STUDY ADMINISTRATION

#### A. Overview

The ELBW Infant Birth Year 2012 Cohort follow-up is a project conducted by the Vermont Oxford Network (VON), Division of Clinical Trials & Follow-up. The VON Clinical Trials & Follow-up Data Coordinating Center will administer data collection, data management, and data analysis. Each participating Network Center will designate a Center Principal Investigator, who will be the contact person at that institution, and a Center Study Coordinator, who will coordinate data collection at the local Center. Each participating Network Center will obtain approval for the study from their Institutional Review Board and submit a copy of the approval to the VON Clinical Trials & Follow-up Data Coordinating Center.

#### B. VON Clinical Trials & Follow-up Data Coordinating Center

The VON Clinical Trials & Follow-up Data Coordinating Center will be responsible for all aspects of biostatistical design, data analysis, and data management for the study. The VON Clinical Trials & Follow-up Data Coordinating Center will submit periodic progress reports to the ELBW Infant Follow-up Project Steering Committee. The staff at the VON Clinical Trials & Follow-up
Data Coordinating Center can be reached between 9:00 am - 17:00 pm, Eastern Standard Time. You may contact Karla Ferrelli at the Clinical Trials & Follow-up Data Coordinating Center by email karla@vtoxford.org, telephone (802) 865-4814 ext 212, or fax (802) 865-9613 or (802) 865-0359 with any questions.

C. **Steering Committee**

The ELBW Infant Follow-up Project Steering Committee is comprised of members of Vermont Oxford Network and individuals with expertise in neonatal follow-up and neurodevelopment. The Steering Committee is responsible for approving the study proposal and materials, and monitoring study implementation and enrollment. The Steering Committee will participate in drafting the report of the study results for publication.

IV. **CENTER PARTICIPATION**

A. **Center Responsibilities**

The Center’s Principle Investigator is responsible for obtaining local Institutional Review Board (IRB) approval for the project. If required, the Center Investigator completes periodic IRB reviews, and submits necessary amendments or renewals or both. The Center Investigator is also responsible for sending a copy of current IRB approval to the VON Clinical Trials & Follow-up Data Coordinating Center. Finally, the Center Investigator oversees accurate data collection, and assures any training that may be necessary.

The Center’s Project Coordinator is responsible for managing data submission. The Project Coordinator maintains logs to identify infants eligible for follow up, ensures completeness and accuracy of data collection, submits data forms to VON, and works with VON to reconcile any data errors or omissions or both. The Project Coordinator may also assist in obtaining IRB approval for project participation.

B. **Center Project Materials**

Upon receiving a copy of the Network Center’s Institutional Review Board (IRB) approval, the VON Clinical Trials & Follow-up Data Coordinating Center will send the Center’s Principal Investigator a set of *The ELBW Infant Follow-up Project 2012* data collection log and forms. All participating Centers must obtain IRB approval at their respective center before initiating data collection. Documentation of IRB approval must be received by the VON Clinical Trials & Follow-up Data Coordinating Center before data will be accepted.
C. **Center Project Timeline**

Data forms are to be completed during the time of the infant’s follow-up visit between 18 and 24 months’ corrected age. Although exact dates of follow-up visits will depend on the infants’ gestational ages and dates of birth, the visits are expected to occur between October 2012 and April 2013.

V. **DATA COLLECTION**

A. **Data Legibility**

Please answer every item on the *Infant Follow-up Data Forms*. Please complete all items carefully and clearly. All textual data should be clearly printed; numbers should be legible and easy to distinguish. Coded data should be completed according to the detailed instructions for each *Infant Follow-up Project Data Form*. Please erase mistakes thoroughly for entries in pencil. For mistakes in entries completed in ink, the mistake should be erased with correction fluid and rewritten. Please proofread each Data Form for completeness, clarity, and legibility before mailing it to the Clinical Trials & Follow-up Data Coordinating Center.

It is extremely important that you use caution in filling out the data forms. Please ensure that the correct VON ID number is used. As a result of de-identification of patient data, we are no longer able to verify the accuracy of the patient information you submit.

B. **Which Infants Need Forms Completed for ELBW Infant Follow-up**

Infants eligible for ELBW Infant Follow-up include all infants with birth weight between 401 and 1000 grams (inclusive) **OR** gestational age between 22 weeks, 0 days and 27 weeks, 6 days (inclusive) who are

- born at your Center, admitted to your NICU, and survive until ultimate hospital disposition;
- born at another hospital, transferred to your Center on or before day 28 and survive until ultimate hospital disposition;
- born at your Center, admitted to your NICU, transferred on or before day 28 from your center and survive until ultimate hospital disposition. To be eligible for follow-up at your center the infant must be re-admitted to your center after transfer.

Ultimate hospital discharge is the infant’s final discharge from the hospital to home or chronic care facility. The ultimate hospital discharge may or may not be from your Center. **Do not**
complete logs and reports for infants who were never admitted to your Center, but who are patients in your Follow-up Clinic.

C. Patient, Center, and Study Identification Data

At the top of each Infant Follow-up Project Data Form are three areas for patient, center and study identification. These sections should be completed on all Infant Follow-up Project Data Forms.

**Patient Identification:** In the topmost section, the Infant’s Name and Medical Record Number (MRN) is recorded. This information in this section is for individual center use in completing the Infant Follow-up Project Data Form and facilitating any additional reviews or edits. In order to preserve confidentiality of patient data, this section must be masked when the form is copied for mailing to the Data Coordinating Center. Do not send patient name and medical record number for any infant. These should remain confidential.

**Center Identification:** In the second section, the Center Name, Center Number, Infant Network ID Number, and Infant Year of Birth are recorded. The Center Name is the name of your medical center and the Center Number is the number assigned to your center for the VON Database. These fields will be the same for all infants enrolled in the Infant Follow-up Project at your center. The Infant Network ID Number is the number assigned to the infant for the VON Database according to the VON Database Manual of Operations. The Infant Year of Birth is recorded using four digits. For example, an infant born in 2012 will have the Infant Year of Birth recorded as “2012”.

**Study Identification:** In the third section, indicate whether follow-up is being conducted for the ELBW Infant Follow-up Birth Year 2012 Cohort, or a specific clinical study or both.

D. HIPAA Compliance

In accordance with the Federal Health Insurance Portability and Accountability Act (HIPAA), which establishes standards for privacy of individually identifiable health information, all data for the Extremely Low Birth Weight Follow-up Project was de-identified as of January 1, 2002. This important and significant change to the Follow-up Project is consistent with procedures at the Vermont Oxford Network for data collection and submission of de-identified data.

Please note:
• As of January 1, 2002, no data forms were accepted with patient identifiers (date of birth, date of health status follow-up visit, date of developmental follow-up visit).

• All 2012 Cohort follow-up data must be submitted on de-identified data forms: Infant Follow-up Project Data Forms, Version 15.

VI. The ELBW INFANT FOLLOW-UP PROJECT REPORT LOG

A. Introduction

The ELBW Infant Follow-up Report Log identifies infants from your Center who qualify for the ELBW Infant Follow-up Project. The VON Clinical Trials & Follow-up Data Coordinating Center will send you the ELBW Infant Follow-up Report Log for your Center. To complete this Log, you will need your Vermont Oxford Network Database Patient Log, your 28-Day Forms, and the corrected age calculator (refer to Appendix B, Instructions for Using the Corrected Age Calculator).

B. Using the ELBW Infant Follow-up Project Report Log

The ELBW Infant Follow-up Project Report Log serves as a tool for establishing eligible follow-up dates, noting the follow-up report progress of infants from your Center who are eligible for the ELBW FUP, and coordinating follow-up visits for infants from your Center who are eligible to participate in the ELBW Infant Follow-up Project but who may not receive their 18 to 24 Months Corrected Age Follow-up Visit at your follow-up clinic. The Clinical Trials & Follow-up Data Coordinating Center will send you the ELBW Infant Follow-up Project Report Log for all eligible infants from your Center.

1. Establishing an Infant’s Eligible Follow-up Dates

Follow-up dates are between the 18 Months Corrected Age date and the 24 Months Corrected Age date for each infant. You will determine the 18 Months Corrected Age date and the 24 Months Corrected Age date using the corrected age calculator and adjusting for the number of weeks the infant was premature (Refer to Appendix B, Instructions for Using the Corrected Age Calculator). The VON Clinical Trials & Follow-up Data Coordinating Center will send you a list of the gestational ages for each eligible infant. You will need to enter the infant’s date of birth and the infant’s gestational age in weeks and days into the corrected age calculator to determine the 18 Months Corrected Age date and the 24 Months Corrected Age date.

2. Tracking the Progress of the Infant’s Follow-up
Enter the date of the infant’s scheduled Health Follow-up visit and the Developmental Follow-up visit in the appropriate columns in the *ELBW Infant Follow-up Project Report Log*. When the *Health Status Report* and the *Developmental Status Report* have been completed (Refer to Sections VIII: Health Status Report, and IX: Developmental Status Report), enter the date on which the reports were mailed or faxed to the Clinical Trials & Follow-up Data Coordinating Center in the appropriate columns. Some infants from your Center may not have a *Health Status Report* or a *Developmental Status Report* completed (Refer to Section VIII: A: Infant Status at the 18 to 24 Months Corrected Age Visit).

Remember, data should be mailed or faxed within one month of the 24 Months Corrected Age date listed on the ELBW Infant Follow-up Project Report Log (Refer to Section X: How To Transmit Data).

Keep your *ELBW Infant Follow-up Report Log*. This Log is the only way to identify infants in the ELBW Infant Follow-up Project. You may need to use this Log to find specific charts for review. You may wish to make copies of this Log in case the originals are lost. Keep your Log in a safe and secure place.

**VI. THE INFANT FOLLOW-UP PROJECT DATA FORMS**

There are two *Infant Follow-up Project Data Forms*. The purpose of the *Infant Follow-up Project Data Forms* is to document the health and developmental status of the infant from the time of ultimate hospital discharge to the follow-up visit. The *Infant Follow-up Project Data Forms* include the *Health Status Report* and the *Developmental Status Report*. **Please be sure to use the current version (15) of these forms for ELBW Infant Birth Year 2012 Cohort follow-up.**

**A. THE HEALTH STATUS REPORT (Version 15)**

The *Health Status Report* documents the health status of the infant at the 2 year corrected age follow-up visit. The *Health Status Report* should be completed at a Health Follow-up visit between the 18 Months Corrected Age date and the 24 Months Corrected Age date. To complete the *Health Status Report*, you may need to review patient specific hospital charts or outpatient clinical records to answer some of the data items.

**1. Infant Status at the 18 to 24 Months Corrected Age Visit**

The status of the infant at 18 to 24 Months Corrected Age will determine which sections of the Health Status Report should be completed.
• If the infant expired prior to the time of the 18 to 24 Months Corrected Age Health Follow-up visit, complete only Section A: Health Status, Item #1 of the Health Status Report.

• If the infant was alive but was not seen at the time of the 18 to 24 Months Corrected Age Health Follow-up visit, complete only Section A: Health Status, Item #1 of the Health Status Report.

• If the infant was alive and was seen at your Center at the time of the 18 to 24 Months Corrected Age Health Follow-up visit, but the infant’s parent(s) or legal guardian(s) did not give consent to participate in the ELBW Infant Follow-up Project, complete only Section A: Health Status, Items #1 and 2 of the Health Status Report. If the infant’s parent(s) or legal guardian(s) gave consent to participate, complete all sections of the Health Status Report.

2. Report Completion

Patient, Center, and Study Identification Data
In the topmost section of the first page of the Health Status Report, enter the Patient Name and Medical Record Number. In the second section, enter the Center Name, Center Number, Network ID Number, and Infant Year of Birth (YYYY). In the third section enter whether follow-up is being conducted for the ELBW Infant Follow-up Birth Year 2012 Cohort, or a specific clinical study or both.

Section A: Health Status
ITEM 1: Status at 18 – 24 Months Corrected Age
Indicate the infant’s status at the time of the Health Follow-up visit between the 18 - 24 Months Corrected Age dates.
Check “Alive” if the infant is known to be alive at the 18 - 24 Months Corrected Age Follow-up visit dates.
Check “Expired” if the infant died between the ultimate hospital discharge date and the 18 - 24 Months Corrected Age Follow-up visit dates.
Check “Unknown” if the status of the infant is unknown at the 18 - 24 Months Corrected Age Follow-up visit dates, because the infant was lost to follow-up.

ITEM 2: Consent Obtained
Indicate whether informed consent was obtained from the infant’s parent(s) or legal guardian(s) to collect health and developmental follow-up data. Consent may be obtained at the time of, or any time prior to the 18 - 24 Months Corrected Age Follow-up visit.

Check “Yes” if the infant’s parent(s) or legal guardian(s) gave consent to participate. Check “No” if the infant’s parent(s) or legal guardian(s) did not give consent to participate. IF “No” is checked, stop here; only items #1 and 2 of the Health Status Report are completed in this case.

ITEM 3: Corrected Gestational Age at the Follow-up Visit

You must determine the infant’s corrected gestational age in months and days using the corrected age calculator (refer to Appendix B, Instructions for Using the Corrected Age Calculator). Enter the infant’s date of birth, gestational age at birth in weeks and days, and the date of the follow-up visit. The corrected age calculator will display the infant’s corrected gestational age on the date of the Health Follow-up visit.

Section B: Living Situation

ITEM 4: Maternal Age at Infant Birth

Indicate the age of the mother at the time of the infant’s birth. Enter the age in years. Check “Unknown”, if the age of the mother at the infant’s birth is not known.

ITEM 5: Home Child Resides

Indicate the infant’s home living situation between the ultimate hospital discharge and the Health Follow-up visit. If the infant’s home living situation changed between the ultimate hospital discharge and the Health Follow-up visit, check the category that best describes where the infant lived during the majority of time. Check only one category.

Check “Parent/Family member” if the infant lives with the biological mother or father or other family members, or in the case of adoption, the legal guardian(s) who is/are the primary care giver(s).

Check “Foster Care” if the infant lives with an adult(s) who is/are the primary care giver(s) but who are not the infant’s legal guardians.

Check “Institutional ” if the infant lives and is cared for in an institution or chronic care facility.

ITEM 6: Caregiver(s) check (√) only one
Indicate the type of social support in the infant’s home living situation between the ultimate hospital discharge and the Health Follow-up visit. If the infant’s caregiver(s) changed between the ultimate hospital discharge and the Health Follow-up visit, check the category that best describes the infant’s caregiver(s) during the majority of time.

Check “Single parent” if the infant lives with a single parent as the primary care giver without other adults in the home.

Check “Single parent extended family” if the infant lives with a single parent as the primary care giver with other related adults in the home.

Check “Two parent” if the infant lives with two parents as the primary care givers without other adults in the home.

Check “Two parent extended family” if the infant lives with two parents as the primary care givers with other related adults in the home.

Check “Institutional” if the infant lives in a chronic care facility or remains hospitalized.

ITEM 7: Primary Caregiver Education check (✓) only one

Indicate the highest level of education of the primary care giver in the home between the ultimate hospital discharge and the Health Follow-up visit. If the caregiver’s level of education changed between the ultimate hospital discharge and the Health Follow-up visit, check the category that best describes the level of education during the majority of time. Check only one category.

Check “Some high school or less” if the primary caregiver has attained grade school education and some high school education, but has not graduated from high school.

Check “High school graduate/GED” if the primary caregiver has graduated from high school or attained the equivalent (GED).

Check “Some college/university” if the primary caregiver has graduated from high school and has attended some college courses, but has not graduated from college.

Check “College/university graduate” if the primary caregiver has graduated from a college or university.

Check “Unknown” if the highest level of education of the primary caregiver is not known or is unclear.
Check “Not applicable” only if the infant lives in a chronic care facility or institution.

**For participating USA centers ONLY**

**ITEM 8: Income Below 2012 HHS Poverty Guideline**

Indicate whether the household income for 2012 was below the 2012 HHS Poverty Guideline (35) level for the given number of people currently residing in the infant’s home.

Many caregivers feel uncomfortable asking parents or caregivers a question about their household income. To help ask this question we have provided a script and an income reference table (Appendix C). Please note the question does not ask for a specific income level or range. Rather, the question is phrased so as to be answered in a “Yes” or “No” format. Interviewers may give the parents or caregivers the income reference table as a tool to facilitate their answer to the question as “Yes”, “No”, or “I don’t know” (“Unknown”).

To use the table, instruct the parent or caregiver to look at the column on the left and find the number of adults and children who lived in the home for part or all of 2012. Next have the parent or caregiver look at the column on the right and answer “Yes” or “No” to the question “Was your household income for the year 2012 below the number in the column?”

Check “Yes” if the 2012 household income for the number of people (adults plus children) residing in the home is less than the dollar amount listed in the corresponding column.

Check “No” if the 2012 household income for the number of people (adults plus children) residing in the home is equal to or more than the dollar amount listed in the corresponding column.

Check “Unknown” if the parent or the caregiver is unsure of the 2012 household income.

**ITEM 9: Caregiver(s) Primary Language**

Indicate the primary language of the caregiver used in the home in which the child resides. Check “Other” if a language other than English or Spanish is used. The “other” language does not need to be specified.

**Section C: Support after Discharge**

**ITEM 10: Outpatient support (after ultimate discharge)**

Indicate whether the infant had any of the listed supports or interventions at any time between the ultimate birth hospitalization discharge and the 2 year corrected age follow-up visit. The support or intervention may have been in place prior to ultimate birth hospitalization discharge.
or may have been started between the ultimate birth hospitalization discharge and the 2 year corrected age follow-up visit. The support may have been discontinued before the follow-up visit, or be in place at the time of the follow-up visit. These supports or interventions are specific to the outpatient setting. Do not check a support or intervention that was started AND stopped during a medical or surgical readmission. However, if a support was started during a readmission and continued upon discharge from the readmission, then the support qualifies as applied.

Check “Yes” if the infant received any of the listed supports or interventions after the ultimate birth hospitalization discharge.

Check “No” if the infant did not receive any of the listed supports or interventions after the ultimate birth hospitalization discharge.

Check “Unsure” if you are not sure if the infant received any of the listed supports or interventions listed after the ultimate birth hospitalization discharge.

**IF Yes, check (√) all that apply**

If Item #10 “Outpatient support (after ultimate discharge)” is marked “Yes”, check all of the supports that apply.

For each category of support, check whether the support was in place at any time after the ultimate birth hospitalization discharge, or at the 2 year corrected age follow-up visit, or both.

**ITEM 10a Tracheostomy**

Indicate whether the infant had a functional tracheostomy at any time after the ultimate hospital discharge, or at the follow-up visit, or both.

**ITEM 10b Ventilator**

Indicate whether the infant received ventilator support at any time after the ultimate hospital discharge, or at the follow-up visit, or both. Ventilator support includes intermittent mandatory ventilation or continuous positive airway pressure.

**ITEM 10c Oxygen**

Indicate whether the infant received supplemental oxygen at any time after the ultimate hospital discharge, or at the follow-up visit, or both. Supplemental oxygen includes oxygen given with a ventilator, as well as free flow oxygen through a nasal cannula or hood.

**ITEM 10d Gastrostomy**
Indicate whether the infant had a functional gastrostomy at any time after the ultimate hospital discharge, or at the follow-up visit, or both.

ITEM 10e Nasogastric feeds
Indicate whether the infant received nasogastric or naso-jejunal feeds at any time after the ultimate hospital discharge, or at the follow-up visit, or both.

ITEM 10f Apnea or CP Monitor
Indicate whether the infant was on an Apnea Monitor or a Cardio-Pulmonary (CP) Monitor at any time after the ultimate hospital discharge, or at the follow-up visit, or both.

ITEM 10g Pulse Oximetry
Indicate whether the infant was on a Pulse Oximeter Monitor at any time after the ultimate hospital discharge, or at the follow-up visit, or both.

ITEM10h Respiratory Medication
Indicate whether the infant receiving a respiratory medication(s) at any time after the ultimate hospital discharge, or at the follow-up visit, or both. Respiratory medications may include diuretic therapy, inhaled or nebulized bronchodilators or steroid medications. For the purpose of this category of support, Palivizumab (Synagis®) or other antiviral prophylactic agents are not considered respiratory medications.

ITEM10i Oral Feeding Support
Indicate whether the infant receiving any support to promote, establish or maintain oral feeding at any time after the ultimate hospital discharge, or at the follow-up visit, or both.

ITEM 10j Speech Support
Indicate whether the infant receiving any support to promote or establish speech at any time after the ultimate hospital discharge, or at the follow-up visit, or both.

ITEM 10k Motor Support
Indicate whether the infant receiving any support to promote, establish or maintain gross or fine motor activities at any time after the ultimate hospital discharge, or at the follow-up visit, or both.

Section D: Medical Re-hospitalizations
ITEM 11: Medical Readmissions (after ultimate discharge)
Indicate whether the infant was rehospitalized at any time between the ultimate birth hospitalization discharge and the 2 year corrected age follow-up visit. Medical rehospitalizations require an overnight hospital stay. Medical rehospitalizations exclude visits to a Hospital-based Primary Care Medical or Developmental Follow-up Clinic, or other hospital-based specialty clinic or the Emergency Room.

Check “Yes” if the infant was rehospitalized.

Check “No” if the infant was not rehospitalized.

Check “Unsure” if you are not sure if the infant was rehospitalized.

**IF Yes, Check (√) all that apply**

If Item #11 “Medical Re-hospitalizations” is checked “Yes”, indicate whether the infant was hospitalized for a specific medical rehospitalization category as defined below, and check all that apply. Enter the “Number of Admissions” as the number of hospital admissions for each specific medical rehospitalization category. If you are unsure of the number of admissions for a medical rehospitalization category, enter “99”.

A hospital admission should be assigned to only one rehospitalization category.

**Respiratory Illness**

Includes medical rehospitalizations for the sequelae of respiratory distress syndrome, chronic lung disease, and other conditions. These conditions may require oxygen therapy, mechanical ventilation, or tracheostomy. These conditions include pulmonary disease (due to congenital or inherited anomalies of the airway), pulmonary aspiration (due to neurological or neuromuscular disorders), disorders of the chest wall diaphragm or abdominal wall resulting in hypoventilation, or sequelae arising from surgical problems in the neck or chest. These conditions include rehospitalizations as related to pulmonary infections (e.g. “RSV-bronchiolitis”), “Acute Life Threatening Event”, or “Near SIDS”.

**Nutrition/Failure to Thrive**

Includes medical rehospitalizations for nutritional issues or failure to gain weight. Excludes medical rehospitalizations as related to gastrointestinal infections.

**Seizure Disorder**

Includes medical rehospitalizations for partial, generalized or unclassified seizures and convulsive disorders. May or may not have EEG correlates. Non epileptic paroxysmal physiologic events
which mimic seizures (e.g. migraines) or pseudo-seizures should be included in this category. Excludes medical re hospitalizations as related to CNS infections: if the seizure is sequelae of a specific acute infection of the cerebrum or meninges, the re hospitalization should be coded under the appropriate category of “Infection”.

**Shunt Complication**

Includes medical re hospitalizations for complications related to or associated with cerebrospinal fluid shunts and re hospitalizations as related to shunt infections. Fever, irritability, vomiting, and abdominal symptoms typically indicate shunt infection. The diagnosis of a shunt infection does not require blood or CSF culture to be positive. Shunt malfunction may occur.

**Infections (not respiratory or shunt infections)**

**Meningitis**

Includes medical re hospitalizations for bacterial or aseptic meningitis. The diagnosis of meningitis requires a single CSF culture to be positive. Excludes infections related to or associated with cerebrospinal fluid shunts.

**Urinary Tract Infection**

Includes medical re hospitalizations for infections related to either the upper or lower urinary tracts such as acute pyelonephritis, chronic pyelonephritis, cystitis, and urethritis. Primary or secondary vesicoureteral reflux may or may not be involved. The diagnosis of a urinary tract infection requires a positive quantitative urine culture.

**Gastrointestinal Infection**

Includes medical re hospitalizations for infectious diarrhea illnesses such as endemic diarrhea, food-borne or water borne diarrhea, anti-microbial associated diarrhea and diarrhea in immunocompromised hosts. This category also includes re hospitalizations for excessive fluid and electrolyte losses and subsequent replacement therapies. The diagnosis of a gastrointestinal infection does not require a positive culture.

**Other Infection (specify)**

Includes medical re hospitalizations for infections not meeting the inclusion requirements of one of the above categories. Enter a specific infection.

**Other Medical Re admission Category (specify):**
Includes medical re-hospitalizations for a category that does not meet the inclusion requirements of one of the above categories. Describe the specific reason for re-hospitalization in the space provided for the description.

**Section E: Surgeries**

**ITEM 12: Surgical Procedures After Discharge**

Indicate whether the infant required a surgical procedure after discharge. Includes one or more surgical procedures performed at any time between the ultimate birth hospitalization discharge date and the time of the 2 year corrected age follow-up visit. Surgical procedures may be with or without re-hospitalizations (i.e. they may occur as outpatient or day surgeries).

Check “Yes” if the infant required a surgical procedure.

Check “No” if the infant did not require a surgical procedure.

Check “Unsure” if you are not sure if the infant required a surgical procedure.

Please note that the surgical procedure codes for the Infant Follow-up Study are NOT the same as codes used to record surgeries in the VON VLBW Database. ELBW Infant Follow-up Procedure codes (P-codes) can be found on the reverse side of the Health Status Report Form or in Appendix C.

Enter the three digit “P-Code” from the list of surgical procedures on the back of the Health Status Report; or refer to Appendix C: Surgical Procedure Codes. If the infant had Other neurosurgical procedure (code “P-102”), Other gastrointestinal surgical procedure (code “P-303”), Other genitourinary surgical procedure (code “P-402”), Other ENT surgical procedure (code “P-503”), or Other ophthalmologic surgical procedure (code “P-604”), enter the code number and describe the specific surgery in the space provided for description. If the infant had a surgical procedure not listed on the back of Health Status Report or in Appendix C, enter “P-900” (Other Surgical Procedure). Describe the specific surgical procedure in the space provided for description.

Enter the “Number of Procedures” as the number of surgical procedures performed for each surgical category.

**B. THE DEVELOPMENTAL STATUS REPORT (Version 15)**

The Developmental Status Report documents the neurodevelopmental status of the infant at the 2 year corrected age follow-up visit. The Developmental Status Report should be completed at a
Developmental Follow-up visit between the 18 Months Corrected Age date and the 24 Months Corrected Age date. You recorded these dates on the ELBW Infant Follow-up Report Log (Refer to Section VI: C: The ELBW Infant Follow-up Project Report Log and Appendix B: Instructions for Using the Corrected Age Calculator). To complete the Developmental Status Report, you may need to review patient specific hospital charts or outpatient clinical records to answer some of the data items.

1. Infant Status at the 18 to 24 Months Corrected Age Visit

The status of the infant at 18 to 24 Months Corrected Age will determine which sections of the Developmental Status Report should be completed.

- **If the infant expired** prior to the 18 to 24 Months Corrected Age Developmental Follow-up visit, do not complete the Developmental Status Report.
- **If the infant was alive** but was not seen at your Center at the 18 to 24 Months Corrected Age Developmental Follow-up visit, do not complete the Developmental Status Report.
- **If the infant was alive and was seen at your Center** at the time of the 18 to 24 Months Corrected Age Developmental Follow-up visit, but the infant’s parent(s) or legal guardian(s) did not give consent to participate in the ELBW Infant Follow-up Project, do not complete the Developmental Status Report. If the infant’s parent(s) or legal guardian(s) gave consent to participate, complete all sections of the Developmental Status Report.

2. Report Completion

Patient and Center Identification Data

In the topmost section of the first page of the Developmental Status Report, enter the Patient Name and Medical Record Number. In the second section, enter the Center Name, Center Number, Network ID Number, and Infant Year of Birth (YYYY). In the third section, enter whether follow-up is being conducted for the ELBW Infant Follow-up Birth Year 2012 Cohort, or a specific clinical study or both.

Section A: Growth Parameters

**ITEM 1: Corrected Gestational Age when Growth Parameters Obtained**

You must determine the infant’s corrected gestational age in months and days using the corrected age calculator (refer to Appendix B, Instructions for Using the Corrected Age Calculator). Enter the infant’s date of birth, the gestational age at birth in weeks and days, and the date when growth parameters were obtained. The corrected age calculator will display the
The infant’s corrected gestational age on the date of the Developmental Follow-up Visit when the growth parameters were obtained.

**ITEM 2: Weight**

Enter the weight recorded at the Developmental Follow-up visit. Enter the weight in kilograms (kg), to the hundredths place. If the weight was not obtained at the Developmental Follow-up visit, enter “99.9”. Do not enter a weight obtained at another visit.

**ITEM 3: Head Circumference**

Enter the head circumference recorded at the Developmental Follow-up visit. Enter the head circumference in centimeters (cm), to the tenths place. If the head circumference was not obtained at the Developmental Follow-up visit, enter “99.9”. Do not enter a head circumference obtained at another visit.

**Section B: Vision & Hearing**

**ITEM 4: Post Discharge Eye Exam**

Indicate whether the infant received a formal post discharge eye exam at any time from hospital discharge to the 18-24 Months Corrected Age Developmental Follow-up visit.

Check “Ophthalmologic” if the infant ONLY had an ophthalmologic examination for vision screening.

Check “Retinal” if the infant ONLY had an indirect ophthalmologic examination for retinopathy of prematurity (ROP).

Check “Both” if the infant had both an ophthalmologic examination for ROP and for vision screening.

Check “Neither” if the infant had did not have an ophthalmologic examination for ROP and for vision screening.

Check “Unsure” if you are unsure if the infant had either an ophthalmologic examination for ROP or for vision screening.

**ITEM 4a: Post Discharge Eye Treatment**

Indicate whether the infant received post discharge eye treatment at any time from the hospital discharge to the 18-24 Months Corrected Age Developmental Follow-up visit.

Check “Laser Therapy” if the infant received laser therapy for ROP in one or both eyes.
Check “Anti-VEGF Drug” if the infant received bevacizumab (Avastin®) or other anti-vascular endothelial growth factor (Anti-VEGF) drug in one or both eyes for the treatment of ROP.

Check “None” if the infant received neither laser therapy nor an Anti-VEGF drug.

Check “Unsure” if you are unsure whether the infant received either laser therapy or an anti-VEGF drug.

ITEM 5: Blindness

Indicate whether the infant has any loss of vision.

Check “One eye” if the infant has a loss of vision in one eye only (including uncorrectable profound impairment or near blindness), regardless of whether the defect causing the visual loss is in the eye, optic nerve or the brain.

Check “Both eyes” if the infant has a loss of vision in both eyes (including uncorrectable profound impairment or near blindness), regardless of whether the defect causing the visual loss is in the eye, optic nerve or the brain.

Check “Neither” if the infant does not have loss of vision. Infants “not blind” may have other types of visual impairment such as: glaucoma (cloudy or asymmetrically enlarged cornea), hypermetropia (farsightedness), myopia (nearsightedness), strabismus (squint as elicited by the corneal light reflex or unilateral cover test), or other visual impairment not classified as blindness.

Check “Unsure” if you are unsure of the infant’s visual status.

ITEM 6: Prescription glasses

Indicate whether the infant currently uses prescription glasses.

Check “Yes” if prescription glasses are used some or all of the time.

Check “No” if prescription glasses are never used.

ITEM 7: Post Discharge Hearing Test

Indicate whether the infant had formal testing at any time from ultimate birth hospitalization discharge until the day of the 2 year corrected age follow-up visit. The formal testing may be for confirmation of a suspected hearing loss based on a failed hearing screen, observation of problems with the infant’s behavioral response to sound, or a caregiver’s report of emerging
communication and auditory behavior difficulties. Formal testing must include otoacoustic emissions (OAEs) and/or auditory brainstem response (ABR).

Check “Yes” if the infant had formal testing.

Check “No” if the infant did not receive formal testing, or if you are unsure if the infant had formal testing.

ITEM 8: Hearing Impairment
Indicate whether the infant has evidence of any hearing impairment.

Check “One ear” if the infant has any hearing impairment in one ear only.

Check “Both ears” if the infant has any hearing impairment in both ears.

Check “Neither” if the infant does not have any hearing impairment.

Check “Unsure” if you are unsure of the infant’s hearing status.

ITEM 9: Amplification
Indicate whether corrective hearing aid(s) are currently used for amplification.

Check “Yes” if a corrective aid(s) is/are used in one or both ears.

Check “No” if corrective aids are never used.

Section C: Cerebral Palsy
ITEM 10: Cerebral Palsy
Indicate whether the infant has cerebral palsy at the Developmental Follow-up visit. Cerebral palsy is a disability of the central nervous system, and is characterized by abnormal control of movement or posture or both. The abnormalities of cerebral palsy are not due to mental retardation, meningomyelocele or other spinal cord lesions, or isolated hypotonia and are not transient, or the result of a progressive disease.

Check “Yes” if the infant has cerebral palsy.

Check “No” if the infant does not have cerebral palsy.

ITEM 10a: IF Yes, Impairment
If Item # 10 “Cerebral Palsy” is “Yes” the infant has cerebral palsy, indicate the type of impairment. Check only one type.
Check “Diplegia” if the infant is affected in both lower extremities.

Check “Hemiplegia” if the infant is affected in the upper and lower extremity on only one half of the body.

Check “Quadriplegia” if the infant is affected in all extremities.

**ITEM 10b: IF No, Muscle tone**

If Item #10 “Cerebral Palsy” is “No” the infant does not have cerebral palsy, indicate whether the infant has an abnormality in muscle tone. Check only one type.

Check “Hypotonia” if the infant had a decrease in muscle tone or resistance to passive movement, including dystonia not associated with or suspect for cerebral palsy.

Check “Hypertonia” if the infant had an increase in muscle tone or resistance to passive movement including dystonia not associated with or suspect for cerebral palsy.

Check “Both (hypotonia and hypertonia)” if the infant had a decrease and increase in muscle tone or resistance to passive movement including dystonia not associated with or suspect for cerebral palsy.

Check “Normal” if the infant did not have any abnormalities in muscle tone.

**Section D: Gross Motor Milestones**

**ITEM 11: Sits independently**

Indicate whether the infant can sit independently. Independently is defined as sitting without holding on to anyone or anything.

Check “Yes” if the infant can sit independently.

Check “No” if the infant cannot sit independently.

**ITEM 11a: IF No, Sits with support**

If the answer to Item #11 is “Yes”, do not answer Item #11a. If the answer to Item #11 is “No”, indicate whether the infant can sit with support in his/her current usual performance.

Check “Yes” if the infant can sit with support.

Check “No” if the infant cannot sit with support.

**ITEM 12: Walks ten (10) steps independently**
Indicate whether the infant can walk ten (10) steps independently. Independently is defined as walking without holding on to anyone or anything. Gait can be symmetric or asymmetric when walking independently.

Check “Yes” if the infant can walk ten (10) steps independently.

Check “No” if the infant cannot walk ten (10) steps independently.

**ITEM 12a: IF No, Walks ten (10) steps with support**

If the answer to Item #12 is “Yes”, do not answer Item #12a.

If the answer to Item #12 is “No”, indicate whether the infant can walk ten (10) steps with support in his/her current usual performance.

Check “Yes” if the infant can walk ten (10) steps with support.

Check “No” if the infant cannot walk ten (10) steps with support.

**Section E: Developmental Testing**

**ITEM 13: Developmental Evaluation**

Indicate whether the infant’s development was evaluated at the Developmental Follow-up visit using either the Bayley Scales of Infant Development 3rd edition (BSID-III), or the Griffiths Mental Development Scales Revised 0-2 Years (GMDS), or another developmental assessment tool.

Check “Completed” if the infant’s development was evaluated using any developmental assessment tool.

Check “Partially completed” if the infant’s development was partially evaluated with any one or more of the subtests of the BSID-III, any one or more of the subtests of the GMDS, or any part of another developmental assessment tool.

Check “Not done” if the infant’s development was not evaluated with any of the subtests of the BSID-III, or of the GMDS, or with any other developmental assessment tool.

- If “Partially completed” or “not done” is checked, then the reason why **must** be answered.
- If “Completed” or “Partially completed” is checked, the test used **must** be answered.

**ITEM 13a: IF partially completed or not done, check (√) why**
Check “Neurosensory impairment (blind or deaf)” if the child had one or both of these impairments and could not complete the test.

Check “Too severely delayed” if the child was too severely delayed to administer testing. Do not check this reason if the test was not administered because the child had a neurosensory impairment (was blind or deaf).

Check “Uncooperative” if the child was unable to sufficiently cooperate for the test to be performed.

Check “Other” if there was another reason the test was not administered.

**ITEM 13b: IF completed or partially completed, check (√) which test**

Check “the Bayley Scales of Infant Development-III” if the BSID-III was used in the developmental evaluation.

Check “Griffiths Mental Development Scales” if the GMDS was used in the developmental evaluation.

Check “Other” if another assessment tool was used in the developmental evaluation.

**ITEM 14: Corrected Age Used In Scoring (months/days)**

If the answer to Item #13 is “Completed” or “Partially completed”, enter the corrected age used in scoring the BSID-III or GMDS as the age in months and days. You can determine the infant’s corrected age in months and days using the corrected age calculator (refer to Appendix B, Instructions for Using the Corrected Age Calculator). To use this calculator, enter the infant’s date of birth, gestational age at birth in weeks and days, and the date on which developmental testing was performed. The corrected age calculator will display the infant’s corrected age on the date of the developmental testing.

**ITEM 15: Results (BSID-III)**

Enter the results for the BSID-III. For each subtest completed, check the box and enter the corresponding scaled and composite score.

For the Cognitive subtest, enter the Scaled Score and the Composite Score. For the Language, and Motor subtests, enter the Sum Scaled Scores and the Composite Scores. The Language Sum Scaled Score is the sum of the Receptive Communication (RC) and the Expressive Communication (EC) scaled scores; the Motor Sum Scaled Score is the sum of the Fine Motor (FM) and the Gross Motor (GM) scaled scores.
ITEM 16: Results (GMDS)

Enter the results for the GMDS. For each subtest completed check the box and enter the corresponding uncorrected and corrected score.

Section F: Overall Clinical Appraisal

Item 17: Clinical Appraisal

Cognitive function

Indicate the clinical appraisal of the infant’s cognitive functioning. The clinical appraisal is a summary of the impressions of the health care team upon seeing the infant at the Developmental Follow-up visit. The clinical appraisal is based on observation and examination of the infant during the visit.

Check “Normal” if the infant’s cognitive functioning is appropriate for 18-24 months age corrected for prematurity.

Check “Suspect” if it is unclear whether the infant’s cognitive functioning is delayed for 18-24 months age corrected for prematurity.

Check “Impaired” if the infant’s cognitive functioning is abnormal for 18-24 months age corrected for prematurity.

Language

Indicate the clinical appraisal of the infant’s language. The clinical appraisal is a summary of the impressions of the health care team upon seeing and listening to the infant at the Developmental Follow-up visit. The clinical appraisal is based on observation and examination of the infant during the visit.

Check “Normal” if the infant’s language is appropriate for 18-24 months age corrected for prematurity.

Check “Suspect” if it is unclear whether the infant’s language is delayed for 18-24 months age corrected for prematurity.

Check “Impaired” if the infant’s language is abnormal for 18-24 months age corrected for prematurity.

Motor function
Indicate the clinical appraisal of the infant’s motor functioning. The clinical appraisal is a summary of the impressions of the health care team upon seeing the infant at the Developmental Follow-up visit. The clinical appraisal is based on observation and examination of the infant during the visit.

Check “Normal” if the infant’s motor functioning is appropriate for 18-24 months age corrected for prematurity.

Check “Suspect” if it is unclear whether the infant’s motor functioning is delayed for 18-24 months age corrected for prematurity.

Check “Impaired” if the infant’s motor functioning is abnormal for 18-24 months age corrected for prematurity.

VIII. HOW TO TRANSMIT DATA

Mail or Fax All Data to:

ELBW Infant Follow-up Project
Vermont Oxford Network
33 Kilburn St.
Burlington, VT 05401
Fax: 802-865-9613
Fax: 802-865-0359

- Do not photocopy the infant's name or medical record number on the top of the Infant Follow-up Project Data Forms. This information should remain confidential.

- Keep your original Infant Follow-up Project Data Forms on file. Send copies only.

- Complete all data on the data forms. Confirm accuracy of all data before submission. Check that all forms have the correct Center number, VON ID number, and Infant Year of Birth. Do not submit incomplete forms.

- Care should be taken anytime a form is changed or updated, since the most recent data received will be entered into the database without further verification. All changes/updates made on Infant Follow-up Project Data Forms previously submitted should be highlighted or noted as being “corrected” when the forms are mailed to VON.

- Keep your ELBW Infant Follow-up Project Report Log secure. The ELBW Infant Follow-up Project Report Log is the only way to identify infants and to track their status in the follow-up project. You may need to use the logs to find specific charts for review. We
recommend making copies of the ELBW Infant Follow-up Project Report Log as each page of the Log is completed in case the original is lost.

- Keep your ELBW Infant Follow-up Project Report Log up to date. Enter data on the Log as data forms are submitted.

IX. PUBLICATIONS

Vermont Oxford Network will author all publications, which are based on data collected at all centers during the conduct of this follow-up project. An appendix listing each participating center, up to two investigators from each of the centers, and the study coordinator from each center will be included. The centers will be listed in alphabetical order. The appendix will also list the members of Infant Follow-up Project Steering Committee and the VON Clinical Trials & Follow-up Data Coordinating Center. The appendix will list Charles E. Mercier, MD (Principal Investigator); Roger F. Soll, MD (co-Principal Investigator, Vermont Oxford Network Trials & Follow-up Director); and Karla Ferrelli, Study Coordinator. All investigators listed in the appendix will be considered co-authors of the manuscript and entitled to include the publication in their curricula vitae.

Publications based on follow-up data collected at individual centers or a subgroup of centers which address ancillary research questions may be authored by the individual investigators responsible, but will not be submitted for publication until after the primary follow-up manuscript has been submitted. All ancillary studies must have prior approval of the Steering Committee to ensure that these studies will not interfere with the main study.
X. REFERENCES


XI. APPENDICES

Appendix A: ELBW Infant Follow-up Project - 2011 Cohort Center List

Akron Children’s Hospital / OH
Aultman Hospital / OH
Aurora Baycare Medical Center / WI
Baptist Memorial Hospital for Women / TN
Betty H. Cameron Women’s & Clinics / NC
Cape Fear Valley Medical Center / NC
Children’s Hospital of Wisconsin / WI
Children’s Hospitals & Clinics / MN
Children’s of Orange County / CA
CHOI at OSF St. Francis Medical Center / IL
DeVos Children’s/Spectrum Health / MI
Florida Hospital for Children / FL
Golisano Children’s Hosp of SW FL / FL
Goryeb Children’s Hospital / NJ
Henry Ford Hospital / MI
K.K. Women’s & Children’s Hospital / Singapore
The Medical Center at Columbus Regional / GA
Mercy San Juan Hospital / CA
Mississippi Baptist Health Systems / MS
Ospedale Maggiore Policlinico / Italy

O.U. Health Sciences Center / OK
Presbyterian/St. Luke’s Medical Center / CO
Providence St. Vincent Medical Center / OR
Providence Tarzana Regional Medical / CA
Rainbow Babies and Children’s Hospital / OH
Randall Children’s Hospital at Legacy Emanuel / OR
St. Barnabas Medical Center / NJ
St. John Hospital & Medical Center / MI
Sunnybrook Health Science Centre / Canada
USA Children’s and Women’s Hospital / AL
UCSF Medical Center / CA
University Hospital San Antonio / TX
U. Mass Memorial Health Care / MA
University of Illinois at Chicago / IL
University of Iowa Children’s Hospital / IA
WakeMed Faculty Physicians / NC
Vermont Children’s Hospital at FAHC / VT
Wheaton Franciscan Healthcare / WI
Women’s Hospital of Greensboro / NC
Women’s Hospital / IN

Continued participation of Centers in the Year 2011 Cohort is anticipated for the Year 2012 Cohort. New Centers, having completed Center eligibility requirements are welcome.
Appendix B: Instructions for Using the Corrected Age Calculator

The Corrected Age calculator is intended to easily and accurately provide you with the infant’s corrected gestational age at the time of the follow-up visit, as well as the 18-24 month corrected age test date range. The calculator is available on the Vermont Oxford Network website (www.vtoxford.org) under “Follow-up Project.”

To calculate the infant’s corrected gestational age:

• Click on the tab labeled “Corrected Age” at the top of the calculator on the screen.
• Enter the infant’s date of birth. Confirm with your records that this is the correct date of birth.
• Enter the developmental test date. Confirm that this is the correct developmental test date.
• Enter the infant’s gestational age in weeks. Confirm that this is the correct age in weeks.
• Enter the infant’s gestational age in days. Confirm that this is the correct age in days.
• Hit the “Calculate” tab at the bottom of the calculator. The infant’s corrected gestational age will appear in the box labeled “Corrected Age”. This is the corrected age that you will use on the Health and Developmental Status Reports. Do not round these numbers.

To calculate the follow-up test date range for the infant:

• Click on the tab labeled “Test Date Range” at the top of the calculator on the screen.
• Enter the infant’s date of birth. Confirm that the date of birth is correct.
• Enter the infant’s gestational age in weeks. Confirm that this is the correct age in weeks.
• Enter the infant’s gestational age in days. Confirm that this is the correct age in days.
• Hit the “Calculate” tab at the bottom of the calculator. The test date range will appear in the boxes labeled “18 month Corrected Age Date” and “24 month Corrected Age Date”.

Helpful hint: In order to accurately calculate the infant’s corrected gestational age and the follow-up test date range, you must use the gestational age in weeks and days listed on the infant’s VON 28 Day form. (If you do not have direct access to these forms, please contact your center’s VON data
coordinator for this information.) Do not round the gestational age in weeks and days before entering them into the calculator.

**In calculating the Corrected Age:**

The Corrected Age of the child is calculated based upon the Bayley Scales of Infant Development formula.

1. Calculate the child's chronological age by subtracting the date of birth from the date of testing. As per the BSID, all months are assumed to have 30 days.

2. Compute the months and days the child was premature by subtracting the number of days gestational age from the number of days in a 40-week gestation. Divide the number of days premature by 30 to get the months, and its remainder is the number of days.

3. Subtract the time the child was premature from the chronological age to compute the corrected age in months and days.

**Example:** An infant born on 1/1/2003 with a gestational age of 26 weeks and 2 days and tested on 11/15/2004 will have a corrected age of 19 months and 8 days.

1. 

<table>
<thead>
<tr>
<th>Year</th>
<th>Month</th>
<th>Day</th>
</tr>
</thead>
<tbody>
<tr>
<td>2004</td>
<td>11</td>
<td>15</td>
</tr>
<tr>
<td>2003</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>1</td>
<td>10</td>
<td>14</td>
</tr>
</tbody>
</table>

2. 

   \[(40 \times 7) - ((26 \times 7) + 2) = 96\]

3. \[96 \div 30 = 3\] months with remainder of 6 days

4. 

<table>
<thead>
<tr>
<th>Year</th>
<th>Month</th>
<th>Day</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>10</td>
<td>14</td>
</tr>
<tr>
<td>3</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>7</td>
<td>8</td>
</tr>
</tbody>
</table>
5. Convert the 1 year to 12 months. $12 + 7 = 19$ months

1. Corrected Age = 19 months 8 days
Appendix C: Script for Question 8 (Health Status Report)

We would like to ask you a question about your household income in calendar year. Your household income is the amount of money earned by adults living in your house.

After thinking about this for a minute, please take a look at the following table and tell us whether your household income in for the year 2012 was below the number listed in the table.

To use this table look at the column on the left and find the number of adults and children who lived in your home for part or all of 2012. Next look at the column on the right and answer “Yes” or “No” to the question “Was your household income for the year 2012 below the number in the column?”

Interviewer hands table to parent; parent answers question and returns table to interviewer.

HOUSEHOLD INCOME Tool

<table>
<thead>
<tr>
<th>Persons in Household</th>
<th>Household Income in 2012</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>$ 18,920</td>
</tr>
<tr>
<td>3</td>
<td>$ 23,870</td>
</tr>
<tr>
<td>4</td>
<td>$ 28,820</td>
</tr>
<tr>
<td>5</td>
<td>$ 33,770</td>
</tr>
<tr>
<td>6</td>
<td>$ 38,720</td>
</tr>
<tr>
<td>7</td>
<td>$ 43,670</td>
</tr>
<tr>
<td>8</td>
<td>$ 48,620</td>
</tr>
<tr>
<td>Each additional person</td>
<td>$ 4,950</td>
</tr>
</tbody>
</table>

### Appendix D: Surgical Procedure Codes (P-Codes)

<table>
<thead>
<tr>
<th>P-CODE</th>
<th>CATEGORY</th>
</tr>
</thead>
<tbody>
<tr>
<td>P-101</td>
<td>Central Nervous System Surgery</td>
</tr>
<tr>
<td></td>
<td>Shunt or shunt revision for hydrocephalus</td>
</tr>
<tr>
<td>P-102</td>
<td>Other neurosurgical procedure</td>
</tr>
<tr>
<td>P-201</td>
<td>Congenital Heart Defect Surgery</td>
</tr>
<tr>
<td></td>
<td>Cardiac surgery</td>
</tr>
<tr>
<td>P-301</td>
<td>Gastrointestinal Surgery</td>
</tr>
<tr>
<td></td>
<td>Gastrostomy tube placement</td>
</tr>
<tr>
<td>P-302</td>
<td>Inguinal hemia repair</td>
</tr>
<tr>
<td>P-303</td>
<td>Other gastrointestinal surgical procedure</td>
</tr>
<tr>
<td>P-401</td>
<td>Genitourinary Surgery</td>
</tr>
<tr>
<td></td>
<td>Circumcision</td>
</tr>
<tr>
<td>P-402</td>
<td>Other genitourinary surgical procedure</td>
</tr>
<tr>
<td>P-501</td>
<td>Otolaryngology Surgery</td>
</tr>
<tr>
<td></td>
<td>Tracheostomy</td>
</tr>
<tr>
<td>P-502</td>
<td>Tympanostomy tubes</td>
</tr>
<tr>
<td>P-503</td>
<td>Other ENT surgical procedure</td>
</tr>
<tr>
<td>P-601</td>
<td>Ophthalmologic Surgery</td>
</tr>
<tr>
<td></td>
<td>Retinal cryosurgery or laser surgery: single eye</td>
</tr>
<tr>
<td>P-602</td>
<td>Retinal cryosurgery or laser surgery: both eyes</td>
</tr>
<tr>
<td>P-603</td>
<td>Strabismus surgery</td>
</tr>
<tr>
<td>P-604</td>
<td>Other ophthalmologic surgical procedure</td>
</tr>
<tr>
<td>P-900</td>
<td>Other Surgical Procedure</td>
</tr>
</tbody>
</table>
## Appendix E: Sample Report Log and Data Forms

### 1. Extremely Low Birth Weight Infant Follow-up Report Log

**Extremely-Low-Birth-Weight Infant Follow-Up Project**

REPORT LOG

<table>
<thead>
<tr>
<th>CENTER</th>
<th>CENTER NAME: Your Center Name</th>
<th>Birth Year: 2012</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Network ID Number</th>
<th>Date of Birth</th>
<th>Patient's Name</th>
<th>GA Weeks</th>
<th>GA Days</th>
<th>18 Months Adjusted Age Date</th>
<th>24 Months Adjusted Age Date</th>
<th>Health and Developmental Status Follow-up Date</th>
<th>Health and Developmental Status Follow-Up Report Mailed</th>
<th>PRQ Date</th>
<th>PRQ Mailed</th>
</tr>
</thead>
<tbody>
<tr>
<td>11760</td>
<td></td>
<td></td>
<td>26</td>
<td>1</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11761</td>
<td></td>
<td></td>
<td>26</td>
<td>1</td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11763</td>
<td></td>
<td></td>
<td>24</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11764</td>
<td></td>
<td></td>
<td>26</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11922</td>
<td></td>
<td></td>
<td>23</td>
<td>6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11923</td>
<td></td>
<td></td>
<td>23</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11924</td>
<td></td>
<td></td>
<td>23</td>
<td>2</td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11928</td>
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<td></td>
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<td>6</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>11931</td>
<td></td>
<td></td>
<td>25</td>
<td>3</td>
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<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>12049</td>
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<td>6</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>12050</td>
<td></td>
<td></td>
<td>26</td>
<td>6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12051</td>
<td></td>
<td></td>
<td>26</td>
<td>6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

© Vermont Oxford Network, Inc.
2. Sample: Health Status Report (Version 15)

<table>
<thead>
<tr>
<th>Patient's Name:</th>
<th>Medical Record:</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Please do not transmit information in this box)</td>
<td></td>
</tr>
</tbody>
</table>

VERMONT OXFORD NETWORK - Infant Follow-up Project
HEALTH STATUS REPORT

Center Number: _______________  
Network ID Number: _______________  
Year of Birth (YYYY): _______________

Follow-up Category:  
☐ ELBW 2012  ☐ Clinical study (specify): _______________

SECTION A: HEALTH STATUS
1. Status at 18–24 Months Corrected Age:  
☐ Alive  ☐ Expired  ☐ Unknown
2. Consent Obtained:  
☐ Yes  ☐ No
3. Corrected Age at the Follow-up Visit (months/days): ___ months ___ days

SECTION B: LIVING SITUATION
4. Maternal Age at Infant Birth: ___ years  ☐ Unknown
5. Home Child Resides:  
☐ Parent/Family member  ☐ Foster care  ☐ Institutional
6.Care givers:  
☐ Single parent  ☐ Two parent  ☐ Institutional
☐ Single parent extended family  ☐ Two parent extended family
7. Primary Caregiver Education:  
☐ Some High School or less  ☐ Some college/university
☐ High School degree/GED  ☐ College/university degree
☐ Not applicable  ☐ Unknown

USA CENTERS ONLY
8. Income Below 2012 HHS Poverty Guideline:  
☐ Yes  ☐ No  ☐ Unknown

SECTION C: SUPPORT AFTER DISCHARGE
10. Outpatient support (after ultimate discharge):  
☐ Yes  ☐ No  ☐ Unsure

IF Yes, Check (√) all that apply

<table>
<thead>
<tr>
<th>Support</th>
<th>Any time after discharge</th>
<th>At present clinic visit</th>
</tr>
</thead>
</table>
a. Tracheostomy | ☐                                      |
b. Ventilator | ☐                                      |
c. Oxygen | ☐                                      |
d. Gastrostomy | ☐                                      |
e. Nasogastric Feeds | ☐                                      |
f. Apnea or CP monitor | ☐                                      |
g. Pulse Oximetry | ☐                                      |
h. Respiratory Med(s) | ☐                                      |
i. Oral Feeding Support | ☐                                      |
j. Speech Support | ☐                                      |
k. Motor Support | ☐                                      |

SECTION D: MEDICAL RE-HOSPITALIZATIONS
11. Medical readmissions (after ultimate discharge):  
☐ Yes  ☐ No  ☐ Unsure

IF Yes, Check (√) all that apply

<table>
<thead>
<tr>
<th># Admissions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Respiratory Illness</td>
</tr>
<tr>
<td>Nutrition/Failure to Thrive</td>
</tr>
<tr>
<td>Seizure Disorder</td>
</tr>
<tr>
<td>Shunt Complication</td>
</tr>
<tr>
<td>Infections (not respiratory or shunt infections)</td>
</tr>
<tr>
<td>Meningitis</td>
</tr>
<tr>
<td>Urinary Tract Infection</td>
</tr>
<tr>
<td>Gastrointestinal Infection</td>
</tr>
<tr>
<td>Other Infection:</td>
</tr>
<tr>
<td>Other Medical Readmission (specify):</td>
</tr>
</tbody>
</table>

SECTION E: SURGERIES
12. Surgical procedures after ultimate discharge:  
☐ Yes  ☐ No  ☐ Unsure

IF Yes, Put all that apply (use P-Codes)  
# Procedures

<table>
<thead>
<tr>
<th>(P-Code)</th>
</tr>
</thead>
<tbody>
<tr>
<td>___</td>
</tr>
<tr>
<td>(P-Code)</td>
</tr>
<tr>
<td>___</td>
</tr>
<tr>
<td>(P-Code)</td>
</tr>
<tr>
<td>___</td>
</tr>
</tbody>
</table>
### 3. Sample: Developmental Status Report (Version 15)

<table>
<thead>
<tr>
<th>Patient's Name:</th>
<th>Medical Record:</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>VERMONT OXFORD NETWORK - Infant Follow-up Project</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEVELOPMENTAL STATUS REPORT</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Center Number:</th>
<th>Center Name:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Network ID Number:</td>
<td>Year of Birth (YYYY):</td>
</tr>
</tbody>
</table>

Follow-up Category: [ ] ELBW Birth Year 2012 [ ] Clinical trial (specify): 

#### SECTION A: GROWTH PARAMETERS

1. Corrected Age Growth Parameters Were Obtained (months/days): _____ months _____ days
2. Weight: _____ _____ kg
3. Head Circumference: _____ _____ cm

#### SECTION B: VISION & HEARING

4. Post Discharge Eye Exam: [ ] Ophthalmologic [ ] Retinal [ ] Both [ ] Neither [ ] Unsure
   a. Post Discharge Eye Treatment: [ ] Laser [ ] Anti-VEGF [ ] None [ ] Unsure
5. Blindness: [ ] One eye [ ] Both eyes [ ] Neither [ ] Unsure
6. Prescription Glasses: [ ] Yes [ ] No
7. Post Discharge Hearing Test: [ ] Yes [ ] No
8. Hearing Impairment: [ ] One ear [ ] Both ears [ ] Neither [ ] Unsure
9. Amplification: [ ] Yes [ ] No

#### SECTION C: CEREBRAL PALSY

10. Cerebral Palsy: [ ] Yes [ ] No
    If Yes, Impairment: [ ] Diplegia [ ] Hemiplegia [ ] Quadriplegia
    If No, Muscle tone: [ ] Hypotonia [ ] Hypertonia [ ] Both [ ] Normal

#### SECTION D: GROSS MOTOR MILESTONES

11. Sits Independently: [ ] Yes [ ] No
    If No, Sits with support: [ ] Yes [ ] No
12. Walks ten (10) steps independently: [ ] Yes [ ] No
    If No, Walks ten (10) steps with support: [ ] Yes [ ] No

#### SECTION E: DEVELOPMENTAL TESTING

13. Developmental Evaluation: [ ] Completed [ ] Partially completed [ ] Not done
    a. If partially completed or not done, check (✓) why:
       [ ] Neurosensory impairment [ ] Too severely delayed [ ] Uncooperative [ ] Other
    b. If completed or partially completed, check (✓) which test:
       [ ] Bayley Scales of Infant Development-III [ ] Griffiths Mental Development Scales [ ] Other

14. Corrected Age Used In Scoring (months/days): _____ months _____ days

<table>
<thead>
<tr>
<th>BSID-III</th>
<th>Scaled Score</th>
<th>Composite Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cognitive</td>
<td>(Sum)</td>
<td>(Sum)</td>
</tr>
<tr>
<td>Language</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Motor</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

16. Results (GMDS)

<table>
<thead>
<tr>
<th>Total Scale (GQ)</th>
<th>Uncorrected Score</th>
<th>Corrected Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Locomotor</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Personal-Social</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hearing and Speech</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hand and Eye Coordination</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Performance Tests</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### SECTION F: OVERALL CLINICAL APPRAISAL

17. Clinical Appraisal:
   - Cognitive function:
     - Normal
     - Suspect
     - Impaired
   - Language:
     - Normal
     - Suspect
     - Impaired
   - Motor function:
     - Normal
     - Suspect
     - Impaired