

CHAPTER 2 SCREENING OF INFANTS FOR INHERITED AND CONGENITAL INFANT OR CHILDHOOD-ON SET DISEASES

001. AUTHORITY. These regulations implement the law governing screening of infants for inherited and congenital infant or childhood-on set diseases, Nebraska Revised Statutes (Neb. Rev. Stat.) §§ 71-519 to 71-524.

002. DEFINITIONS. For purposes of these regulations, the following definitions are hereby adopted.

002.01 CONFIRMATORY TEST. A test or a panel of tests performed following a presumptive positive screening test which provides additional, more specific diagnostic information concerning the existence or non-existence of diseases screened for.

002.02 CUTOFF VALUE. A value on a screening test for a specific disease which gives a high degree of probability that all newborns with a greater or lower value, depending on the test method, will not have the disease.

002.03 DEPARTMENT. The Department of Health and Human Services of the State of Nebraska.

002.04 HOSPITAL. Any facility defined under Neb. Rev. Stat. § 71-419.

002.05 INSTITUTIONAL REVIEW BOARD (IRB). An Institutional Review Board qualifying and complying with requirements in the Code of Federal Regulations (CFR) Title 45 Part 46 Protection of Human Subjects, Effective July 14, 2009.

002.06 LABORATORY. A facility for the biological, microbiological, serological, chemical, immunological, hematological, biophysical, cytological, pathological, or other examination of materials derived from the human body for the purpose of providing information for the diagnosis, prevention, or treatment of any disease or impairment of, or the assessment of the health of, human beings. These examinations also include procedures to determine, measure, or otherwise describe the presence or absence of various substances or organisms in the body. Facilities only collecting or preparing specimens (or both) or only serving as a mailing service and not performing testing are not considered laboratories.

002.07 NEWBORN SCREENING ADVISORY COMMITTEE (NBSAC) - APPROVED PROTOCOLS. Follow-up practices recommended by the Newborn Screening Advisory Committee (NBSAC) and adopted by the Nebraska Newborn Screening Program, to rule out or help diagnose conditions in response to screening results that are out-of-range.

002.08 NEWBORN. An infant who is 28 days old or less.

002.09 NEWBORN SCREENING. A laboratory test applied to newborn specimens in a search for newborns with inherited or congenital infant or childhood-on set diseases. Screening will detect a high proportion of newborns with the disease (true positive). Some newborns who do not have the disease will be identified by the screening test as possibly affected (false positive).

002.10 NEWBORN SCREENING ADVISORY COMMITTEE. A committee whose membership is determined by the Department's Chief Medical Officer which is comprised of a minimum of 15, and maximum of 25, stakeholders and representatives from, but not limited to, the following areas: Newborn and pediatric primary health care providers; medical and allied professionals from the sub-specialties associated with treatment for the disorders screened; clinical laboratorians; and consumers with technical, professional, or personal experience with newborn screening for congenital and inherited disorders.

002.11 PHYSICIAN. A person licensed to practice medicine and surgery or osteopathic medicine and surgery pursuant to the Medicine and Surgery Practice Act.

002.12 PRESUMPTIVE POSITIVE. A screening test result that is above or below the cutoff value or outside the

normal range or value determined by an algorithm for assigning an interpretation of presumptive positive, depending on the test method.

002.13 PUBLIC HEALTH. The art and science dealing with the protection and improvement of community health by organized community effort and including preventive medicine and sanitary and social science.

002.14 PUBLIC HEALTH EMERGENCY. The condition that requires the Governor to declare a state of public health emergency. An occurrence or imminent threat of an illness or health condition, caused by bioterrorism, epidemic or pandemic disease, or a novel and highly fatal infectious agent or biological toxin that poses a substantial risk of a significant number of human fatalities or incidents of permanent or long-term disability (World Health Organization (WHO) and Centers for Disease Control and Prevention (CDC), 2001). The declaration of a state of public health emergency permits the Governor to suspend state regulations or change the functions of state agencies, or both.

002.15 PUBLIC HEALTH RESEARCH. Research intended to generate or contribute to generalizable knowledge to improve public health practice. Generalizable knowledge is new information that has relevance beyond the population or program from which it was collected. Intended benefits of the research project may or may not include study participants, but always extends beyond study participants, and usually to society. Data collected exceeds requirements for care of the study participants or extend beyond the scope of the activity.

002.15(A) DEFINING PUBLIC HEALTH RESEARCH. For purposes of defining public health research, generalizable does not refer to the statistical concept of population estimation, or to the traditional public health method of collecting information from a sample to understand health in the sampled population. Holding public health activities to a standard of studying every case in order to classify an activity as non-research is not practical or reasonable.

002.16 RESIDUAL DRIED BLOOD SPOTS. The portion of the initial or repeat dried blood spot specimen remaining, after all punches have been removed for testing of the specimen for newborn screening purposes.

002.17 SUBMITTER. The person who sends the Collection and Reporting (CARE) Form to the testing laboratory for initial, repeat, or confirmatory screening tests, including, the hospital, the laboratory, or the physician.

002.18 TEST METHOD. A laboratory examination which measures blood constituents associated with screened diseases.

003. SPECIFICATION OF DISEASES. All infants born in the state of Nebraska must be tested for the diseases identified in Neb. Rev. Stat. § 71-519 and the following diseases:

- (A) Argininosuccinic Acidemia;
- (B) Beta-ketothiolase Deficiency;
- (C) Carnitine Uptake Defect;
- (D) Citrullinemia;
- (E) Congenital Adrenal Hyperplasia;
- (F) Cystic Fibrosis;
- (G) Glutaric Acidemia type 1 ;
- (H) Homocystinuria ;
- (I) Isovaleric Acidemia ;
- (J) Long-chain Hydroxyacyl-CoA Dehydrogenase Deficiency;

- (K) Maple Syrup Urine Disease ;
- (L) Methylmalonic Acidemia (Mutase Deficiency);
- (M) Methylmalonic Acidemia (Cbl A and B);
- (N) Multiple Carboxylase Deficiency;
- (O) Propionic Acidemia;
- (P) Severe Combined Immune Deficiencies;
- (Q) Tyrosinemia;
- (R) Trifunctional Protein Deficiency;
- (S) Very Long-chain Acyl-CoA Dehydrogenase Deficiency;
- (T) 3-Hydroxy 3-Methyl Glutaric Aciduria; and
- (U) 3-Methylcrotonyl-CoA Carboxylase Deficiency.

004. SPECIMEN COLLECTION.

004.01 SPECIMEN REQUIREMENTS.

004.01(A) SPECIMEN COLLECTION ON APPROVED FORMS. The specimen requirements of the testing laboratory for each specific analyte must be followed. The testing laboratory must accept only specimens that are dried blood spots that have been collected on the form approved by the Department to be used for all Nebraska births.

004.01(B) APPROVED STANDARDS OF COLLECTION. Collection of dried blood spot specimens must comply with the Clinical and Laboratory Standards Institute (CLSI) Blood Collection on Filter Paper for Newborn Screening Programs; Approved Standard , 7th edition, published 2021.

004.01(B)(i) PREFERRED METHOD OF DRIED BLOOD SPOT SPECIMEN COLLECTION. Heel stick with direct application is the preferred method. The submitter must forward the dried blood spots to the testing laboratory within 24 hours of specimen collection. On weekends and holidays if no transport service is available, the next earliest available transport service must be used.

004.01(C) UMBILICAL CORD BLOOD. Umbilical cord blood must not be used.

004.01(D) SUBSTITUTION OF BLOOD. Urine must not be substituted for blood specimens.

004.01(E) COLLECTION AND REPORTING FORM. The Collection and Reporting (CARE) form approved by the Department must be the sole method of form attached to the filter paper collection device for dried blood spot specimen collection for all newborn screening.

005. PHYSICIAN DUTIES.

005.01 SPECIMEN COLLECTION. For all live births, the newborn's physician must cause the collection for testing of a newborn screening specimen for inherited and congenital infant-or childhood-on-set diseases between 24 to 48 hours of age or immediately prior to the newborn's discharge, whichever occurs first.

005.01(A) PRIOR TO 24 HOURS OF AGE. If the initial specimen for any infant is collected prior to 24 hours of age, the newborn's physician or designee must collect or cause to be

005.01(B) SICK, LOW BIRTH WEIGHT, OR PREMATURE INFANTS. Newborns transferred to neonatal

intensive care units (NICU) must have a specimen collected prior to transfer, and information communicated as required in this chapter at. The attending physician at the hospital neonatal intensive care unit (NICU) must verify and otherwise ensure a specimen is collected prior to the provision of any treatment, excluding respiratory treatment. The specimen may be collected prior to 24 hours of age. If the first specimen is collected at less than 24 hours of age, or if the newborn was less than 2000 grams at birth, a repeat specimen must be collected at 48-72 hours of age. A third specimen must be collected at 28 days of life or upon discharge, whichever occurs first, on all infants less than 2000 grams at birth, or who had any prior abnormal screen result.

005.01(C) BLOOD TRANSFUSION. If a newborn requires a blood transfusion, even if prior to 24 hours of age, the specimen must be collected before the blood transfusion.

005.01(C)(i) SPECIMEN COLLECTION ASSURANCE AND TIMING PRIOR TO BLOOD TRANSFUSION.

The specimen should be collected at the time blood is collected for the typing and cross match prior to transfusion unless a dried blood spot specimen was verified to have been collected prior to the typing and cross match. The newborn's physician or designee must collect or cause to be collected a repeat specimen by 48-72 hours of age if the pre-transfusion specimen was collected at less than 24 hours of age, regardless of prior test results.

005.01(D) NO SPECIMEN COLLECTED. Upon notification by the hospital that a newborn was discharged before a screening sample was collected, the newborn's physician or designee must collect, or cause to be collected, a screening specimen within 48 hours of parental notification.

005.01(E) NEWBORN TRANSFER TO ANOTHER HOSPITAL.

005.01(E)(i) BEFORE 24 HOURS OF AGE. The physician at the hospital of birth must collect, or cause to be collected, a blood specimen immediately prior to discharge for testing for inherited and congenital infant-or childhood-on-set diseases if the newborn is transferred to another hospital, either in- or out-of-state, even if this occurs before the infant is 24 hours of age. If the specimen is collected at less than 24 hours of age, the physician or designee at the hospital of birth must document and inform the receiving physician that a specimen for testing for such diseases was collected prior to 24 hours of age and notify the receiving physician that another specimen must be collected between 48 and 72 hours of age.

005.01(E)(ii) AFTER 24 HOURS OF AGE. The physician at the hospital of birth must collect or cause to be collected a blood specimen for testing for inherited and congenital infant-or childhood-on-set diseases from any newborn being transferred to another hospital after the newborn is 24 hours of age and notify the physician upon transfer that a blood specimen for such diseases has been collected. The transferring physician must immediately notify the receiving physician if the specimen needs to be repeated, or if confirmatory testing is required.

005.01(E)(iii) TRANSFER FORMS. All physicians, or the physician's designee, transferring newborns to another hospital must notify the receiving physician in writing of the following information and fax or secure email a copy of the written information to the Nebraska Newborn Screening Program (NNSP) within 24 hours:

- (1) Date of transfer;
- (2) Person completing form or other written notification;
- (3) Hospital of birth;
- (4) Infant's name;
- (5) Date and time of birth;
- (6) Date and time of specimen collection;

- (7) Transferring physician;
- (8) Whether the newborn screening specimen was or was not collected at the hospital of birth;
- (9) Whether the newborn screening specimen was or was not collected prior to 24 hours of age;
- (10) Whether the newborn was transfused, and if so, whether the specimen was collected prior to transfusion;
- (11) The type and time of transfusion if the specimen was collected post-transfusion;
- (12) If the tests have not been performed and an initial specimen needs to be collected;
- (13) If the specimen was collected prior to 24 hours, or following transfusion, and a repeat specimen needs to be collected;
- (14) Receiving hospital; and
- (15) Receiving physician, if known.

005.01(E)(iv) USE OF TRANSFER FORMS TO NOTIFY RECEIVING PHYSICIAN. The transfer form, approved by the Department, may be used to notify the receiving physician, and is included as a convenience for the transferring physician.

005.02 UNSATISFACTORY SPECIMEN. Upon receiving notice from the testing laboratory that a specimen is unsatisfactory, the newborn's physician or designee must collect, or cause to be collected, a repeat specimen within 48 hours of parental notification.

005.03 SCREENING TEST RESULTS RECEIVED. Once the physician receives the results of the newborn screening tests, the physician or designee must place, or cause to be placed, the results in the newborn's patient record.

005.04 PRESUMPTIVE POSITIVE SCREENING TEST RESULT. The newborn's physician or designee must obtain a specimen for repeat or confirmatory testing from the newborn within 48 hours after notification by the testing laboratory of any presumptive positive screening result including out of range, inconclusive, or abnormal interpretations. Repeat dried blood spot specimens must be submitted to the newborn screening laboratory that tested the initial specimen in accordance with approved protocols for follow-up. Confirmatory tests must be ordered, and confirmatory specimens sent in accordance with approved protocols only to laboratories meeting standards established by the Department.

005.05 REASONABLE ATTEMPT. The physician or designee must make a reasonable attempt to cause the collection of a repeat or confirmatory specimen as appropriate to the situation whenever the initial specimen was collected at less than 24 hours or after a transfusion; is determined to be unacceptable for testing for any condition on the screening panel; results of any screening test are out of range, presumptive positive, inconclusive, or abnormal; or if an infant is found to have been discharged without the screen. A reasonable attempt means that the physician or designee must:

- (i) Immediately notify the parent, guardian, or custodian by telephone, if possible, and in writing;
- (ii) If there has been no response within 5 days, notify the parent, guardian, or custodian in writing by certified mail, return receipt requested, or equivalent; and
- (iii) If there has been no response within 10 days of first notification, notify the Nebraska Newborn Screening Program (NNSP) in writing that obtaining the specimen was not accomplished.

005.05(A) ENFORCEMENT. In the event that a parent fails to respond to notification, the physician must assure

that such steps are taken as indicated in this chapter and Neb. Rev. Stat. § 71-524.

005.06 PATIENT EDUCATION. The physician or an individual to whom the physician has delegated authority, must:

005.06(A) PHYSICIAN OR PHYSICIAN DELIGATE MUST PROVIDE EDUCATION REGARDING REQUIRED NEWBORN SCREENING. Physician or physician delegate must provide information to the newborn s parent or legal guardian in accordance with Neb. Rev. Stat. § 71-519(7). There is no provision for dissent from, or refusal of, the required newborn screening tests specified in this chapter.

006. HOSPITAL OR OTHER SUBMITTER DUTIES.

006.01 COLLECTION AND REPORTING FORM. The hospital or other submitter designated by the newborn s attending physician must complete all information and collect the specimen on the Department approved collection and reporting form. The hospital or other submitter must retain the designated copy for inclusion into the newborn's medical record and send the remaining copies to the testing laboratory designated by the Department within 24 hours after specimen collection.

006.02 NO SPECIMEN COLLECTED. The hospital or other submitter designated by the newborn s attending physician must immediately notify the newborn's physician or designee by telephone and in writing if the newborn was discharged before a screening sample was collected and document this notification in the newborn's medical record.

006.03 NO TEST RESULTS. The birthing hospital or facility must maintain a monitoring mechanism to track results for all births occurring at or in route and admitted to their facility. If test results are not received by the hospital or other submitter within 10 days after the specimen was submitted to the testing laboratory, the hospital or other submitter must immediately contact the testing laboratory to determine if the testing laboratory received the specimen and performed the appropriate analyses, and document this contact in the newborn's medical record.

006.03(A) PHYSICIAN NOTIFICATION. If the testing laboratory did not receive a specimen, the hospital or other submitter must immediately notify the physician by telephone and in writing and document this notification in the newborn's medical record.

006.03(B) DOCUMENTATION. If the testing laboratory did receive the specimen and completed the appropriate analyses, a duplicate report must be obtained and placed in the newborn s medical record.

006.03(C) NEBRASKA NEWBORN SCREENING PROGRAM (NNSP) NOTIFICATION. If the testing laboratory did receive the specimen but has not yet performed the appropriate analyses, the hospital or other submitter must immediately notify the Nebraska Newborn Screening Program (NNSP).

006.04 SCREENING TEST RESULTS RECEIVED. When the hospital or other submitter receives the completed copy of the Collection and Reporting (CARE) Form or other record of screening test results from the testing laboratory, the hospital or other submitter must place the screening test results in the newborn s medical record and appropriately retain those results for 25 years from the newborn s date of birth.

007. TESTING LABORATORY DUTIES.

007.01 GENERAL RULES.

007.01(A) ELECTRONIC TRANSMISSION. The testing laboratory must report all of the information on the collection and reporting form electronically, at its own expense, to the Nebraska Newborn Screening Program (NNSP) in electronic format that provides complete demographic and test results records for each infant and that provides the reporting functions as specified by the Department in this chapter and in contract. The testing laboratory must provide, at its own expense, the necessary software and hardware.

007.01(B) TEST PERFORMANCE. The testing laboratory must perform all tests required in the contract

between the Department and the laboratory at least six days a week.

007.01(C) CONTACT PERSON. The testing laboratory must keep the Nebraska Newborn Screening Program (NNSP) informed of the contact person responsible for newborn screening.

007.01(D) SCREENING TESTS. Except as provided in the disaster preparedness plan as required in the contract, the screening tests must be completed only by the laboratory designated by contract with the Department beginning with the effective date of the contract.

007.01(E) CONFIRMATORY TESTS. Confirmatory tests may be done by any laboratory including the laboratory designated by the Department as long as it is certified under the Clinical Laboratory Improvement Amendments (CLIA) and meets standards as set forth in this chapter. The contracted newborn screening laboratory will append to the laboratory report for all presumptive positive screening results, disorder specific recommendations for immediate testing and clinical follow-up, as approved by the Department.

- (i) Confirmatory testing laboratories must be Clinical Laboratory Improvement Amendments (CLIA) certified and maintain data to support validation of the assays and normal reference ranges for neonates and infants for whom confirmatory testing is provided.
- (ii) Confirmatory testing laboratories must provide, at a minimum, written or electronic laboratory reports back to the specimen submitter that includes:
 - (1) Name of the test;
 - (2) Validated age-appropriate normal reference ranges for the analytes tested when confirming for endocrinopathies (Congenital Adrenal Hyperplasia and Congenital Primary Hypothyroidism) and hemoglobinopathies;
 - (3) Test method and relative amounts of hemoglobin s when confirming for hemoglobinopathies;
 - (4) Identification of ratios when hemoglobin s A and S are present;
 - (5) Test results in quantitative values (except hemoglobin s above) and units of measure consistent with units of measure in the normal reference ranges or values;
 - (6) Interpretation of results appropriate to the age of the newborn or infant;
 - (7) Name and address where testing was completed;
 - (8) Name and phone number of person providing the interpretation; and
 - (9) Written acknowledgement of conditions that may interfere with the appropriate interpretation of results.

007.02 REPORTING AND RECORD KEEPING. Testing laboratories must maintain records and make reports in the following manner:

007.02(A) ELECTRONIC REPORT. The laboratory must provide an electronic report to the Department which includes the following information:

- (i) All information contained on the Department approved form;
- (ii) The serial number located on the Department approved form;
- (iii) If applicable, identification of any unsatisfactory specimen and the reason for its unsatisfactory nature;
- (iv) Screening, repeat, and confirmatory test results, including numerical data where applicable; and

- (v) Any notifications to the physician, the Nebraska Newborn Screening Program (NNSP), or the submitter.

007.02(B) BLOOD SPOT STORAGE, USE, AND DISPOSAL RECORDS. The testing

laboratory must maintain for 25 years an index or catalog of the residual dried blood spots processed in the laboratory that includes the following information:

- (i) The serial number or unique identifier of each specimen processed;
- (ii) The test results of each specimen processed;
- (iii) Verification of disposal of specimens not released for research, public health, quality assurance, or diagnostic purposes. This information may be batched by test completion date so long as each serial number or unique identifier can be linked with its test completion date;
- (iv) Date of disposal;
- (v) Location of disposal if other than the laboratory;
- (vi) For specimens released for public health research, documentation as required in this chapter; and
- (vii) Signature of the person who released, disposed of, or witnessed the disposal of the specimen; or for specimens disposed of by a contractor, written evidence that the contract for disposal of residual dried blood spots requires disposal be done in accordance with this chapter.

007.02(C) QUALITY ASSURANCE REPORTS. The testing laboratory must provide to the Nebraska Newborn Screening Program (NNSP), copies of written reports of participation in and results of appropriate quality assurance proficiency testing programs offered by the Centers for Disease Control and Prevention (CDC) of the United States Department of Health and Human Services and any other professional laboratory organization.

007.03 UNSATISFACTORY SPECIMEN. If a specimen is unsatisfactory for any reason for

any test(s), including but not limited to, being of insufficient volume or quality, the testing laboratory must reject it. Within 24 hours of receiving any unsatisfactory specimen, the testing laboratory must:

- (A) Notify the submitter and physician or designee by telephone and in writing that the specimen was unsatisfactory and that a repeat specimen must be collected within 48 hours of notification to the parent, guardian, or custodian;
- (B) Schedule any tests possible on the specimen received in accordance with the testing laboratory's standard operating procedure and testing times; and
- (C) Enter the applicable information identified in this chapter into the or database accessible to the Department.

007.04 NEGATIVE SCREENING, NEGATIVE REPEAT SCREENING, AND NEGATIVE CONFIRMATORY TEST RESULTS. Within 24 hours of obtaining a negative screening, negative repeat screening, or negative confirmatory test result, the testing laboratory must:

- (A) Send a copy of the test results to the submitter; and
- (B) Enter the applicable information identified in this chapter into the Department's electronic database or database accessible to the Department.

007.05 PRESUMPTIVE POSITIVE SCREENING, POSITIVE REPEAT SCREENING, OR POSITIVE CONFIRMATORY TEST RESULTS. Immediately after obtaining any presumptive positive screening, positive repeat screening, or positive confirmatory test result, the testing laboratory must:

- (A) Provide test result information to the submitter and physician or designee by telephone and in writing;
- (B) Utilize the Nebraska Newborn Screening Program (NNSP) telephone number provided by the Department and relay the information on the form approved by the Department and the presumptive positive or positive results; and
- (C) Enter the applicable information identified in this chapter into the or database accessible to the Department.

007.06 STANDARDIZED LABORATORY TEST METHODS. The testing laboratory must use only the standardized test methods provided for in the contract with the Department and the methods used must produce results for which the specified cutoff value, or cutoff value and algorithms for assigning presumptive positive results are appropriate. The screening test approved analytical method, cutoff value, and algorithms for assigning presumptive positive results (identification protocol) will be specified in the contract between the Department and the laboratory conducting newborn screening testing for the diseases specified in these regulations. Identification protocols used by the performing laboratory must be agreed upon in contract by the Department with the advice of the Newborn Screening Advisory Committee.

007.07 NEWBORN SCREENING ADVISORY COMMITTEE TECHNICAL OVERSIGHT. The Newborn Screening Advisory Committee is responsible for reviewing technical aspects of the identification protocol for the initial screening test relevant to repeat and confirmatory testing. The Committee must make recommendations for approval, disapproval, or revision to identification protocols. The Department has final decision authority for contractually agreed upon tests, analytic methods, and identification protocols for normal and abnormal results and reporting specifications.

007.08 STORAGE OF RESIDUAL DRIED BLOOD SPOTS. The testing laboratory must store the residual dried blood spots for 90 days. Specimens must be refrigerated in sealed bags of low gas permeability.

007.09 USE OF RESIDUAL DRIED BLOOD SPOTS. Residual dried blood spots may be used for public health research, further patient diagnostic testing, and public health purposes, for example, quality assurance and improvement of newborn screening practices.

007.09(A) REQUIREMENTS FOR USE OF RESIDUAL DRIED BLOOD SPOTS. Residual dried blood spots may be used for public health research only when:

- (i) The Division of Public Health Chief Medical Officer and the Newborn Screening Advisory Committee have reviewed and approved the application for research containing, but not limited to, the following information:
 - (1) The full report of the review and approval of the research by a Human Subjects Review or Institutional Review Board (IRB);
 - (2) The qualifications of the applicant and of the principal investigator, if other than the applicant, including education, experience, prior publications, and
recommendations of professional colleagues who have knowledge and experience of scientific or medical research;
 - (3) The purpose of the research project, a summary of the project, and the
anticipated time of completion of the project;
 - (4) The location where the research project will be conducted and the equipment,
personnel, and other resources available to the applicant to carry out the project;
 - (5) The identity of the individual or entity funding the research project, a description of the availability of

funds for the research project, and any conditions on the receipt or continuation of the funding;

- (6) The specific data or biological sample information requested and a description of the use to be made of it and, if subject-identifying data is requested, a substantiation of the need for access to the subject-identifying data;
 - (7) A description of the measures to be taken to secure the data and biological sample information and to maintain the confidentiality of such during the research project, for disposal of the data and biological sample upon completion of the study, and to assure that the results of the study will not divulge or make public, information that will disclose the identity of any individual subject;
 - (8) A written assurance agreement that the research will be published in the public domain and communication of research results will not be restricted on the basis of the proprietary interests of commercial, private, or other partners;
 - (9) A description of the process that will be used for obtaining written consent from the legally responsible parent or guardian of the individuals whose specimens will be requested;
 - (10) If contact with a subject or subject's parent or legal guardian is planned or expected beyond obtaining consent as required in this chapter, substantiation of the need for the contact and a description of the method to be used to obtain permission from the subject or subject's parent or legal guardian for the contact;
 - (11) Such additional information as the Department determines to be necessary to assure that release of data to the applicant is appropriate and consistent with this chapter; and
 - (12) A Material Transfer Agreement (MTA) between the newborn screening laboratory responsible for the storage and release of specimens and the specimen recipients. The Material Transfer Agreement (MTA) must address prohibitions on secondary transfer and secondary research of dried blood spot specimens (DBS) without state authorization; data sharing back to the state program; intellectual property rights, publication requirements, and acknowledgement of state resource use in publications.
- (ii) Specimens released that meet the requirements of this chapter, with or without patient identifying information, the laboratory must keep records documenting the following:
- (1) Who had access to the specimen;
 - (2) To whom the specimen was released;
 - (3) The amount of specimen released; and
 - (4) Evidence from the research entity that written consents were obtained from the legally responsible parent or guardian of the individuals whose specimens were released.
- (iii) The blood spot is not released for public health research until after the 90-day storage time. During the 90-day storage time, it must be available for clinical purposes for the patient.

007.09(B) LABORATORY RECORD KEEPING REQUIREMENTS FOR USE OF RESIDUAL DRIED BLOOD SPOTS. Per this chapter must be retained for 25 years.

007.09(C) USE OF RESIDUAL DRIED BLOOD SPOTS FOR PATIENT DIAGNOSTIC TESTING. Residual dried blood spots may be used for patient diagnostic testing when the ordering physician files with the laboratory a written request for specimen retrieval and a written authorization for release of the specimen signed by the parent or legal guardian.

007.09(D) USE OF RESIDUAL BLOOD SPOTS FOR PUBLIC HEALTH PURPOSES. Residual dried blood spots

may be used for public health purposes as follows:

- (i) They may be used for quality assurance and improvement of newborn screening practices subject to the following:
 - (1) Only dried blood spots deemed unsatisfactory for testing may be released to the submitting hospital to use as examples of poor specimen quality;
 - (2) The filter paper portion of the Collection and Report (CARE) Form containing the dried blood spots must be detached from the written patient identification part of the form prior to release;
 - (3) The bar code and filter paper serial number linking the dried blood spot to the patient identification information must be removed from the residual dried blood spot prior to release; and
 - (4) Requests for return of unsatisfactory specimens must be made by the submitting facility through the Nebraska Newborn Screening Program (NNSP).
- (ii) They may be used for other public health purposes when:
 - (1) The Division of Public Health Chief Medical Officer has determined there is a valid public health purpose;
 - (2) The Division of Public Health Chief Medical Officer has informed the Newborn Screening Advisory Committee about the public health use of the residual dried blood spots;
 - (3) Patient information linking the specimen to the patient will be protected;
 - (4) There are assurances that all applicable provisions of federal law will be complied with; and
 - (5) The blood spot is not released or used for the public health purpose until after the 90-day storage time. During the 90-day storage time it must be available for clinical or identification purposes for the patient unless a public health emergency is declared.

007.10 DATA REPORTS. Reported data may be made available by the Department for purposes of research in aggregate statistical form or de-identified anonymous form. Written requests for release of this data for the purposes of research must be made to the Nebraska Newborn Screening Program (NNSP).

007.11 DISPOSAL OF RESIDUAL DRIED BLOOD SPOTS. Residual dried blood spots not released under this chapter must be disposed of within 30 days of the end of the 90-day storage time. Destruction of the specimens, by incineration, by autoclaving and shredding, or by some other reasonable and prudent means, must ensure that identifying information cannot be linked to the residual dried blood spots.

008. BIRTHS NOT ATTENDED BY A PHYSICIAN. In the event a birth is not attended by a physician, the person registering the birth (who may be the parent) must ensure that:

- (A) The newborn has a newborn screening blood spot specimen collected as set out in this chapter (between 24 and 48 hours of birth);
- (B) The specimen is submitted to the testing laboratory designated by the Department as set out in this chapter (within 24 hours of collection); and
- (C) In response to a positive screening result, a confirmatory specimen is submitted to a testing laboratory in accordance with this chapter within 48 hours of receipt of the newborn screening result.

009. ENFORCEMENT. Enforcement will be as outlined in Neb. Rev. Stat. §§ 71-519 through 71-524.

010. LABORATORY COLLECTION AND REMITTANCE OF FEES. There is hereby assessed a fee of \$20 for each infant screened for the diseases specified in this chapter. The laboratory conducting the tests for such diseases must collect a fee of \$20 per infant screened, and submit the amounts collected to the Department for credit to the Department of Health and Human Services Cash Fund on a monthly basis.