

Encounter: Newborn Screening Ontario			
BORN ID	Data Element Name	Data Element Definition	Pick List Value
NBS0006	Accession Number of Initial Sample	The Newborn Screening Ontario accession number of the initial sample. If NSO has received more than one sample on an infant and the samples have been linked in the NSO system, the accession number of the first sample received by Newborn Screening Ontario.	
D0115	Additive (NSO)	What additive, if any, was mixed with the infant's blood prior to application to the newborn screening filter paper.	None
			Heparin
			Other
			Unknown
D0056	Age of Infant at Time of NSO Sample Collection	Age of infant at time of NSO sample collection in hours. This is derived from the infant's date and time of birth and the date and time of newborn screen collection.	
D0002	Baby's Sex	Indicate sex of the baby on visual exam.	Female
			Male
			Ambiguous genitalia
			Unknown
Y02091	Birth Hospital		
N0005	Birth Location	The location where the birth occurred (hospital, home, other).	Hospital
			Home
			Birthing center
			Nursing station
			Other
R0038	Birth Order	Indicates the birth order of each baby (Twin A= first born, Twin B=second born), irrespective of live birth or still birth.	A, B, C ... J
			Unknown
N0012	Birth Weight	Indicate newborn birth weight (grams).	
D0114	Blood application to newborn screening filter paper	How the infant's blood was applied to the newborn screening filter paper.	Direct
			Syringe
			Tube
			Unknown
NSOCTECOR	Coroner	The name of the coroner involved in the case of a deceased infant for whom post mortem bile and/or blood samples have been submitted to	



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		NSO.	
NBS0009	Date/Time of NSO Collection	Date of collection of Newborn Screening Ontario (NSO) sample.	
D0069	Date/Time of Receipt	The date that the dried blood spot sample was received by Newborn Screening Ontario.	
NSO235402	Date/Time of Referral Package	Date/Time the newborn screening referral package was generated.	
D0067	Determination ID	Unique number linked to test ID and result flag.	
N0014	Gestational Age at Birth (weeks+days; calculated using EDB and DOB)	The infant's gestational age at the time of birth derived using EDB and DOB in weeks and days. For NSO, gestational age is what is indicated on the newborn screening requisition.	
NSOCTECARR	HCP requesting carrier results	The name of the health care provider who has requested an infant's hemoglobinopathy carrier results from NSO.	
ADDRHP	Home Phone Number		
ORGHOSP002	HOSP #	MOH Specified Hospital Number.	
NBS116	Infant feeding as indicated on newborn screen requisition	Infant feeding as indicated on newborn screen requisition.	Breast milk
			Formula
			NPO
			TPN
			Breast, formula
			Breast, TPN
			Formula, TPN
			Breast, formula, TPN
			TPN, NPO
Unknown			
D0063	Lab staff who accepted the newborn screening assay	Lab staff who accepted the assay (AAAC, TSH, 17OHP, Hgb, IRT, CFTR, GALT/Bio, SUAC, steroid profiling, etc).	

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NBTESTDESCR	NSO Test Description		
NBTESTRESCDD ET	NSO Test Result Code Determination		
NBTESTTYPE	NSO Test Type		
NBS0034	Newborn Blood Spot Form Number	Form number on newborn screening blood spot filter paper.	
N0002	Newborn Date of Birth	Newborn day/month/year of birth.	
N0001	Newborn Name - Family Name	Newborn's name.	
N0001-1	Newborn Name - Given Name 1		
N0004	Newborn OHIP Number	Newborn Ontario Health Insurance Plan (OHIP) Number without version code.	
D0061	Newborn Screen Assay Acceptance Date and Time	Date and time the result was accepted at an assay level (AAAC, TSH, 17OHP, Hb, IRT, CFTR, GALT/Bio, SUAC, steroid profiling, etc).	
D0059	Newborn Screen Assay Punch Date and Time	Date and time the sample was punched for each assay (AAAC, TSH, 17OHP, Hb, IRT, CFTR, GALT/Bio, SUAC, steroid profiling, etc).	
D0060	Newborn Screen Time Measured on Instrument	Time measurement is entered into LIS from instrument for each panel of tests set at an assay level (AAAC, TSH, 17OHP, Hb, IRT, CFTR, GALT/Bio, SUAC, steroid profiling, etc).	
NBS0035	Newborn Screening Sample Type	Whether the newborn screening sample was a capillary sample or a venous sample.	Capillary
			Not specified
			Venous
NBS0040	Newborn Screening Unsatisfactory Comments	The reason why a dried blood spot received by Newborn Screening Ontario is considered unsatisfactory for testing.	Acceptable
			Blood dot collection paper is expired
			Blood spots appear clotted

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			or layered
			Blood spots appear diluted
			Blood spots appear scratched or abraded
			Blood spots appear to be damaged or delayed in transit
			Blood spots are supersaturated
			Blood spots are wet and/or discoloured
			Blood spots exhibit serum rings
			Insufficient data provided
			Quantity of blood insufficient
			Sample collected at <24 hours
			Specimen delivered to lab >14 days after collection
			Other
NBS0033	NSO Accession Number	Unique NSO identifier assigned at the time of NSO Accessioning.	
NBS0002	NSO Analyte / Ratio	NSO Analytes and ratios. These are things that are measured in the dried blood spot, and will have values (numerical or text) and result codes associated with them.	
D0119	NSO Analyte / Ratio Concentration Value	Concentration value of each measurement of an analyte or ratio. Almost all of these are all numerical - i.e. the concentration of the particular analyte in the dried blood spot. Exceptions:	

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		Hemoglobin: the result is a pattern enumerator which is a stri	
D0121	NSO Analyte / Ratio normal range	Normal range of the analyte or ratio in the dried blood sample.	
NBS117	NSO Analyte / Ratio Result code	These result codes only exist for Amino Acids and Acylcarnitines assay (AAAC) analytes. Result code in the following possible formats - Analytes and Ratios: XXX-I-Norm, XXX-I-Elev, XXX-I-Decr, etc... (note: C5OH is an analyte, C5OH(D) is a disorder).	
D0120	NSO Analyte / Ratio Rounded Concentration Value	Concentration value rounded to number of decimal points specified or text describing HGB pattern Exceptions: Hemoglobin: the results is an "HPLC pattern" which is a text field Cystic Fibrosis: the results are string fields with mutation abbreviations corre	
D0065	NSO Analyte / Ratio Unit of Measure	The unit of measurement for each analyte (for example umol/L).	
NSOCNTCITY	NSO Contact City	The city where the health care provider / submitting facility involved in the care of the child is located.	
NSOCNTNAME	NSO Contact Name	The name of the health care provider / submitting facility involved in the care of the child.	
NSOCNTPC	NSO Contact Postal Code	The postal code of the health care provider / submitting facility involved in the care of the child.	
NSOCNTPROV	NSO Contact Province	The province where the health care provider / submitting facility involved in the care of the child is located.	Alberta
			British Columbia
			Manitoba
			New Brunswick
			Newfoundland and Labrador
			Northwest Territories
			Nova Scotia
Nunavut			

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BORN ID	Data Element Name	Data Element Definition	Pick List Value
			Ontario
			Prince Edward Island
			Quebec
			Saskatchewan
			Yukon Territory
			USA
			Out of Province
			Out of Country
NSOCNTSTR	NSO Contact Street	The street address of the health care provider / submitting facility involved in the care of the child.	
NSOCNTPHONE	NSO Contact Telephone	The telephone number of the health care provider / submitting facility involved in the care of the child.	
NSOCNTTYPE	NSO Contact Type	Indicates the type of health care provider or health care facility involved in the care of the infant.	Ordering physician
			Submitting hospital
			Birth hospital
			HCP after discharge
			Treatment centre
			Pathologist
			Coroner
			HCP requesting carrier results
			NSO referring physician
NSODISRVAL	NSO Disorder Observation Value	Indicates the analytical results from newborn screening. See definitions for concentration value and rounded concentration value for more detailed definition.	
D0064	NSO Disorder Result Code	The values are "result codes". With the exception of Hemoglobins, these are either "Positive", "Negative", "Unsatisfactory". There will be always be an "Initial Result Code" and for some samples, a "Confirmation Result Code". Any "Initial" "Positive" r	
D0117	NSO HCP After	City of practice location of the infant's HCP after discharge as indicated on	

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	Discharge City	the newborn screening requisition.	
N0118-1	NSO HCP After Discharge First Name	First name of the infant's HCP after discharge as indicated on the newborn screening requisition.	
N0118-2	NSO HCP After Discharge Last Name	Last name of the infant's HCP after discharge as indicated on the newborn screening requisition.	
N0120	NSO HCP After Discharge Phone Number	Phone number of the infant's HCP after discharge as indicated on the newborn screening requisition.	
D0118	NSO HCP After Discharge Postal Code	Postal code of the infant's HCP after discharge as indicated on the newborn screening requisition.	
NBS0115-1	NSO Hemoglobin Percent Area	The area of the peak for a specific hemoglobin variant.	
NBS0115-2	NSO Hemoglobin Variant	The variant of the hemoglobin detected in the newborn dried blood spot.	
NSON0006	NSO Infant Birth Time	The time (24 hour clock) when baby is born as indicated on the newborn screening requisition.	
NSOLETDT	NSO Letter DateTime	The date that the letter was printed by Newborn Screening Ontario	
NSOLETT	NSO Letter Type	Indicates the type of letter generated by Newborn Screening Ontario. Letter types include mailers, risk letters, referral packages, repeat request letters, parent repeat request letters, transfusion letters, HCP transfusion letters, hemoglobinopathy car.	AAAC Monitoring
			BIO - RISK LETTER
			BIOT Diagnostic Report
			C5OH - RISK LETTER
			C5OH Diagnostic Report
			CAH Diagnostic Report
			CAH Monitoring
			CAH - RISK LETTER
			CF - RISK LETTER
			CF Diagnostic Report
			CIT - RISK LETTER
CIT Diagnostic Report			

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BORN ID	Data Element Name	Data Element Definition	Pick List Value
			CPT1 - RISK LETTER
			CPTI Diagnostic Report
			CPTII Diagnostic Report
			CUD - RISK LETTER
			CUD Diagnostic Report
			FAO RISK LETTER
			GA1 - RISK LETTER
			GA1 Diagnostic Report
			GA1 Monitoring
			GALT Diagnostic Report
			GALT - RISK LETTER
			HCP Transfusion Letter
			HCY - RISK LETTER
			HCY Diagnostic Report
			HGB Diagnostic Report
			HGB - RISK LETTER
			HGB Carriers - HCP Results FA Eng
			HGB Carriers - HCP Results FA Fr
			HGB Carriers - HCP Results FAC Eng
			HGB Carriers - HCP Results FAC Fr
			HGB Carriers - HCP Results FAD Eng
			HGB Carriers - HCP Results FAD Fr
			HGB Carriers - HCP Results FAE Eng

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			HGB Carriers - HCP Results FAE Fr
			HGB Carriers - HCP Results FAS Eng
			HGB Carriers - HCP Results FAS Fr
			HGB Carriers - HCP Results OTHER Eng
			HGB Carriers - HCP Results OTHER Fr
			HGB Carriers - HGB HCP No Results
			HGB Carriers - Parent Results FA Eng
			HGB Carriers - Parent Results FA Fr
			HGB Carriers - Parent Results FAC Eng
			HGB Carriers - Parent Results FAC Fr
			HGB Carriers - Parent Results FAD Eng
			HGB Carriers - Parent Results FAD Fr
			HGB Carriers - Parent Results FAE Eng
			HGB Carriers - Parent Results FAE Fr
			HGB Carriers - Parent Results FAS Eng

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BORN ID	Data Element Name	Data Element Definition	Pick List Value
			HGB Carriers - Parent Results FAS Fr
			HGB Carriers - Parent Results OTHER Eng
			HGB Carriers - Parent Results OTHER Fr
			IVA - RISK LETTER
			IVA Diagnostic Report
			LCHAD - RISK LETTER
			LCHAD Diagnostic Report
			MADD - RISK LETTER
			MADD Diagnostic Report
			MCAD - RISK LETTER
			MCAD Diagnostic Report
			MSUD - RISK LETTER
			MSUD Diagnostic Report
			Other Monitoring
			PA MMA - RISK LETTER
			PA MMA Diagnostic Report
			Parent Repeat Request
			PKU - RISK LETTER
			PKU Diagnostic Report
			PKU Monitoring
			Repeat Discrepant Monitoring
			Repeat Initial Positive Monitoring
			Repeat Request
			MSMS BASE - RISK LETTER
			STFU Notes Sheet

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BORN ID	Data Element Name	Data Element Definition	Pick List Value
			Transfusion Close Letter
			Transfusion Letter
			TSH - RISK LETTER
			TSH Diagnostic Report
			TYR - RISK LETTER
			TYR Diagnostic Report
			TYR Monitoring
			UNSAT Monitoring
			VLCAD - RISK LETTER
			VLCAD Diagnostic Report
			Initial Mailer
			Mailer Reprint
NSOM0001	NSO Maternal Health Card Number	Maternal Ontario Health Insurance Plan (OHIP) Number without version code as indicated on the newborn screening requisition. Other Number Type when OHIP is not available (for example, RAMQ).	
NSOM0003	NSO Maternal Name - Family Name	Maternal Name - Family Name as indicated on the newborn screening requisition.	
NSON0002	NSO Newborn Date of Birth		
NSON0004	NSO Newborn OHIP Number	Newborn Ontario Health Insurance Plan (OHIP) Number without version code.	
NBS0021	NSO Ordering Health Care Provider Address	Street address of Health Care Provider submitting NSO sample.	
N0116	NSO Ordering Health Care Provider Name	Health Care Provider requesting NSO (Newborn Screen).	
N0117	NSO Ordering Health Care Provider Phone Number	The phone number of the health care provider ordering the newborn screen.	
NBS0027	NSO Referring	Name and designation of physician providing referral to regional	



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	Physician	treatment centre for follow up of screen positive result.	
D0183	NSO Submitter City	NSO submitter city.	
D0058	NSO Submitter Fax	NSO submitter fax.	
D0180	NSO Submitter Phone	NSO submitter phone.	
D0185	NSO Submitter Postal Code	NSO submitter postal code.	
D0184	NSO Submitter Province	NSO submitter province.	Alberta
			British Columbia
			Manitoba
			New Brunswick
			Newfoundland and Labrador
			Northwest Territories
			Nova Scotia
			Nunavut
			Ontario
			Prince Edward Island
			Quebec
			Saskatchewan
			Yukon Territory
USA			
			Out of Province
			Out of Country
NBS0026	NSO Submitting Facility Name	Name of NSO submitting facility.	
NBS0026S	NSO Submitting Street Address	NSO submitter street address.	
D00123	NSO Target Disorders	These are disorders (i.e. diseases) that are targeted by the newborn screening program. The values are the names or abbreviations of the	

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		target disorders.	
NSOSUBORGNM	Original Submitting Organization Name		
NSOCTEPAT	Pathologist	The name of the pathologist who submitted a post mortem bile and/or blood sample on a deceased infant.	
D0127	Phone Call Required (NSO)	Was a phone call from NSO to the submitter required to collect demographics necessary for sample interpretation.	
D0074	Postnatal PRBC Transfusion (NSO)	Indication that the infant had a postnatal transfusion with packed red blood cells as recorded on the newborn screening requisition.	
D0075	Postnatal PRBC Transfusion Date	Date the infant had a packed red blood cell transfusion as recorded on NSO requisition.	
F0053	Pregnancy Outcome	Indicates the outcome of this pregnancy, including live births, stillbirths, terminations and losses.	Live birth
			Stillbirth at >20wks or >500gms
			Stillbirth at >20wks or >500gms Termination
			Stillbirth at >20wks or >500gms Spontaneous - Occurred during antepartum period
			Stillbirth at >20wks or >500gms Spontaneous - Occurred during intrapartum period
			Pregnancy Loss <20 weeks
			Pregnancy Loss <20 weeks Termination
			Pregnancy Loss <20 weeks Spontaneous Miscarriage
			Pregnancy continued



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BORN ID	Data Element Name	Data Element Definition	Pick List Value
D0054	Premature (Y/N) as recorded by NSO	Whether infant was premature or not as recorded by NSO requisition.	
NBS0011	Regional Treatment Centre Name	Name of the regional treatment centre newborn screen positive infant was referred to for diagnostic evaluation.	
NSO235401	Submitter Unique ID	A unique number assigned to the infant and / or the infant's dried blood spot by the submitting institution / health care provider and recorded on the newborn screening requisition.	
NSOSUBORG	Submitting Organization		
N0006	Time of Birth	The time (24 hour clock) when baby is born.	
NBS0009T	Time of NSO Collection	Time of collection of Newborn Screening Ontario (NSO) sample.	
D0122	Unsatisfactory Code	The numeric unsatisfactory code.	