

Extract By Encounter Type

Encounter: Newborn Screening Ontario (NSO)

Data Element Name	BORN ID	Data Element Definition	Pick List Value	Pick List Definition
Accession number of initial sample	NBS0006	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 will appear in this field		
Additive (NSO)	D0115	What additive, if any, was mixed with the infant's blood prior to application to the newborn screening filter paper	None	
			Heparin	
			Other	
			Unknown	
Age of Infant at time of NSO Sample Collection	D0056	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		
Baby's Sex	D0002	Indicate Sex of the baby on visual exam	Female	
			Male	
			Ambiguous genitalia	
			Unknown	
Birth Hospital	Y02091	The name of the hospital where the birth occurred if Birth Location =hospital. Includes all Ontario hospitals with and without birthing units and some out of province and out of country hospitals.		
Birth Location	N0005	The location where the birth occurred (hospital, home, other)	Hospital	
			Home	
			Nursing Station	Primary health care facilities on First Nation reserves.
			Other Ontario location	

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Data Element Name	BORN ID	Data Element Definition	Pick List Value	Pick List Definition
Birth Location	N0005	The location where the birth occurred (hospital, home, other)	Outside of Ontario	
Birth Order	R0038	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	
			D	
			E	
			F	
			G	
			H	
			I	
			J	
			Unknown	
Birth Weight	N0012	Indicate newborn birth weight (grams)		
Blood application to newborn screening filter paper	D0114	How the infant's blood was applied to the newborn screening filter paper	Direct	
			Syringe	
			Tube	
			Unknown	
Coroner	NSOCTECOR	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 NSO.		
Date of NSO Collection	NBS0009	Date of collection of Newborn Screening Ontario (NSO) sample		
Date/Time of Receipt	D0069	The date that the dried blood spot sample was received by Newborn Screening Ontario		

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Data Element Name	BORN ID	Data Element Definition	Pick List Value	Pick List Definition
Date/Time of Referral Package	NSO235402	Date/Time the newborn screening referral package was generated		
Determination ID	D0067	Unique number linked to test ID and result flag		
Diagnostic testing pending	D0132	Has diagnostic evaluation been initiated		
Gestational Age at Birth (weeks+days; calculated using EDB and DOB)	N0014	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		
HCP requesting carrier results	NSOCTECARR	The name of the health care provider who has requested an infant's hemoglobinopathy carrier results from NSO		
Home Phone Number	ADDRHP	Home Phone Number		
HOSP #	ORGHOSP002	MOH Specified Hospital Number		
Infant feeding as indicated on newborn screen requisition	NBS116	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	
Lab staff who accepted the newborn screening assay	D0063	Lab staff who accepted the assay (AAAC, TSH, 17OHP, Hgb, IRT, CFTR, GALT/Bio, SUAC, steroid profiling, etc)		

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Data Element Name	BORN ID	Data Element Definition	Pick List Value	Pick List Definition
Newborn Blood Spot Form Number	NBS0034	Form number on Newborn screening blood spot filter paper		
Newborn Date of Birth	N0002	Newborn day/month/year of birth		
Newborn Name - Family Name	N0001	Newborn's family name		
Newborn Name - Given Name 1	N0001-1	Newborn Name - Given Name 1		
Newborn OHIP Number	N0004	Newborn Ontario Health Insurance Plan (OHIP) Number without version code.		
Newborn screen assay acceptance date and time	D0061	Date and time the result was accepted at an assay level (AAAC, TSH, 17OHP, Hb, IRT, CFTR, GALT/Bio, SUAC, steroid profiling, etc)		
Newborn screen assay punch date and time	D0059	Date and time the sample was punched for each assay (AAAC, TSH, 17OHP, Hb, IRT, CFTR, GALT/Bio, SUAC, steroid profiling, etc)		
Newborn screen time measured on instrument	D0060	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)		
Newborn Screening Sample Type	NBS0035	Whether the newborn screening sample was a capillary sample or a venous sample	Capillary	
			Not specified	
			Venous	
			Arterial	
Newborn screening unsatisfactory comments	NBS0040	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 or layered	
			Blood spots appear diluted	
			Blood spots appear scratched or abraded	
			Blood spots appear to be damaged or delayed in transit	

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Data Element Name	BORN ID	Data Element Definition	Pick List Value	Pick List Definition
Newborn screening unsatisfactory comments	NBS0040	The reason why a dried blood spot received by Newborn Screening Ontario is considered unsatisfactory for testing	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		
NSO Accession Number	NBS0033	Unique NSO identifier assigned at the time of NSO Accessioning.		
NSO Analyte / Ratio	NBS0002	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.		
NSO Analyte / Ratio concentration value	D0119	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: Hemoglobin: the result is a pattern enumerator which is a string field corresponding to an "HPLC pattern". Cystic Fibrosis (CFTR mutation analysis): the result is numerical corresponding to the number of mutations found		
NSO Analyte / Ratio normal range	D0121	Normal range of the analyte or ratio in the dried blood sample.		
NSO Analyte / Ratio Result code	NBS117	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: C50H is an analyte, C50H(D) is a disorder)		
NSO Analyte / Ratio rounded concentration value	D0120	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 corresponding to the "Mutation" column in the CFTR assay in SG Result Viewer		

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Data Element Name	BORN ID	Data Element Definition	Pick List Value	Pick List Definition
NSO Analyte / Ratio unit of measure	D0065	The unit of measurement for each analyte(for example umol/L)		
NSO Contact City	NSOCNTCITY	The city where the health care provider / submitting facility involved in the care of the child is located		
NSO Contact Name	NSOCNTNAME	The name of the health care provider / submitting facility involved in the care of the child		
NSO Contact Postal Code	NSOCNTPC	The postal code of the health care provider / submitting facility involved in the care of the child		
NSO Contact Province	NSOCNTPROV	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	
			Ontario	
			Prince Edward Island	
			Quebec	
			Saskatchewan	
			Yukon Territory	
			Out of Province	
			Out of Country	
NSO Contact Street	NSOCNTSTR	The street address of the health care provider / submitting facility involved in the care of the child		
NSO Contact Telephone	NSOCNTPHONE	The telephone number of the health care provider / submitting facility involved in the care of the child		

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Data Element Name	BORN ID	Data Element Definition	Pick List Value	Pick List Definition
NSO Contact Type	NSOCNTTYPE	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	
NSO Date informed	D0079	Date parents or HCP informed of the screen positive result		
NSO Disorder Observation Value	NSODISRVAL	Indicates the analytical results from newborn screening. See definitions for concentration value and rounded concentration value for more detailed definition.		
NSO Disorder Result code	D0064			
NSO HCP after discharge city	D0117	City of practice location of the infant's HCP after discharge as indicated on the newborn screening requisition		
NSO HCP after discharge first name	N0118-1	First name of the infant's HCP after discharge as indicated on the newborn screening requisition		
NSO HCP after discharge last name	N0118-2	Last name of the infant's HCP after discharge as indicated on the newborn screening requisition		
NSO HCP after discharge phone number	N0120	Phone number of the infant's HCP after discharge as indicated on the newborn screening requisition		
NSO HCP after discharge postal code	D0118	Postal code of the infant's HCP after discharge as indicated on the newborn screening requisition		
NSO Hemoglobin percent area	NBS0115-1	The area of the peak for a specific hemoglobin variant		
NSO Hemoglobin Variant	NBS0115-2	The variant of the hemoglobin detected in the newborn dried blood spot		

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Data Element Name	BORN ID	Data Element Definition	Pick List Value	Pick List Definition
NSO Hospital Code	NSOHOSPCD			
NSO Infant Birth Time	NSON0006	The time (24 hour clock) when baby is born as indicated on the newborn screening requisition		
NSO Letter DateTime	NSOLETDT	The date that the letter was printed by Newborn Screening Ontario		
NSO Letter Type	NSOLETT	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 carrier letters, etc	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	
			CPT1 - RISK LETTER	
			CPTI Diagnostic Report	
			CPTII Diagnostic Report	
			CUD - RISK LETTER	
			CUD Diagnostic Report	
			FAO RISK LETTER	

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NSO Letter Type	NSOLETT	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 carrier letters, etc	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	
			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	

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NSO Letter Type	NSOLETT	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 carrier letters, etc	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	
			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				

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NSO Letter Type	NSOLETT	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 carrier letters, etc	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	
			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	
			Sickle Cell Diagnostic Report	
			Initial Mailer	

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NSO Letter Type	NSOLETT	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 carrier letters, etc	Mailer Reprint	
			SCID Risk Letter	
			SCID Submitter Letter	
			SCID Monitoring	
			SCID Diagnostic Report	
NSO Maternal Health Card Number	NSOM0001	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)		
NSO Maternal Name - Family Name	NSOM0003	Maternal Name - Family Name as indicated on the newborn screening requisition.		
NSO Newborn Date of Birth	NSON0002			
NSO Newborn OHIP Number	NSON0004	Newborn Ontario Health Insurance Plan (OHIP) Number without version code.		
NSO Ordering Health Care Provider Address	NBS0021	Street address of Health Care Provider submitting NSO sample.		
NSO Ordering Health Care Provider Name	N0116	Health Care Provider requesting NSO(Newborn Screen).		
NSO Ordering Health Care Provider Phone Number	N0117	The phone number of the health care provider ordering the newborn screen.		
NSO Referring Physician	NBS0027	Name and designation of Physician providing referral to Regional Treatment Centre for follow up of screen positive result.		
NSO Submitter City	D0183	NSO Submitter City		
NSO Submitter Fax	D0058	NSO Submitter Fax		

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Data Element Name	BORN ID	Data Element Definition	Pick List Value	Pick List Definition
NSO Submitter Phone	D0180	NSO Submitter Phone		
NSO Submitter Postal Code	D0185	NSO Submitter Postal Code		
NSO Submitter Province	D0184	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	
			Out of Province	
			Out of Country	
NSO Submitting Facility Name	NBS0026	Name of NSO Submitting Facility		
NSO Submitting Street Address	NBS0026S	NSO Submitter Street Address		
NSO target disorders	D00123	These are disorders (i.e. diseases) that are targeted by the newborn screening program. The values are the names or abbreviations of the target disorders.		
NSO Test Description	NBSTESTDESCR			

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Data Element Name	BORN ID	Data Element Definition	Pick List Value	Pick List Definition
NSO Test Result Code Determination	NBSTESTRESCDDET			
NSO Test Type	NBSTESTTYPE			
NSO Valid Result	NBS118	definition TBD - Kim to complete		
Original Submitting Organization Name	NSOSUBORGNM			
Pathologist	NSOCTEPAT	The name of the pathologist who submitted a post mortem bile and/or blood sample on a deceased infant.		
Phone call required (NSO)	D0127	Was a phone call from NSO to the submitter required to collect demographics necessary for sample interpretation		
Postnatal PRBC Transfusion (NSO)	D0074	Indication that the infant had a postnatal transfusion with packed red blood cells as recorded on the newborn screening requisition		
Postnatal PRBC Transfusion Date	D0075	Date the infant had a packed red blood cell transfusion as recorded on NSO requisition		
Premature (Y/N) as recorded by NSO	D0054	Whether infant was premature or not as recorded by NSO requisition		
Regional Treatment Centre Name	NBS0011	Name of the Regional Treatment Centre newborn screen positive infant was referred to for diagnostic evaluation		
Submitter Unique ID	NSO235401	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		
Submitting Organization	NSOSUBORG			
Time of Birth	N0006	The time (24 hour clock) when baby is born		
Time of NSO Collection	NBS0009T	Time of collection of Newborn Screening Ontario (NSO) sample		
Unsatisfactory Code	D0122	The Numeric Unsatisfactory code		