



2020 Ohio Neonatal Abstinence Syndrome Report

Table 1: Hospitalizations* Among Ohio Resident Newborns for Neonatal Abstinence Syndrome, 2016-2020**

Neonatal Abstinence Syndrome	2016	2017	2018	2019	2020
Neonatal Abstinence Syndrome inpatient discharges	2,223	1,935	1,932	1,675	1,652
Medicaid Discharge	1,986	1,753	1,738	1,548	1,516
Non-Medicaid Discharge	237	182	194	127	136
Average length of days (LOS) in days	12.9	13.4	12.7	12.3	13.2
Total LOS (days)	28,656	25,954	24,459	20,549	21,832
Average charge***	\$61,598	\$65,127	\$69,257	\$69,187	\$82,948
Total charge***	\$136,932,674	\$126,020,134	\$133,805,842	\$115,888,822	\$137,029,817

*Hospitalizations occurred in Ohio hospitals to Ohio residents

**NAS reflects ICD-10-CM code P96.1 (codes could be in primary or 18 secondary dx fields)

***Charges reflect charges billed by the hospital

Table 2: Births* to Ohio Residents in Ohio Hospitals, 2016-2020

Hospital Births	2016	2017	2018	2019	2020
Hospital births inpatient discharges	140,142	138,267	135,937	135,487	129,890
Medicaid Discharge	63,792	64,808	63,165	63,294	60,962
Non-Medicaid Discharge	76,350	73,459	72,772	72,193	68,918
Average LOS (days)	3.7	3.8	3.8	3.8	3.7
Average charge**	\$16,695	\$17,812	\$18,952	\$20,525	\$21,810

*Hospital births reflect MSDRG codes 789-795 (Neonates and Newborns)

**Charges reflect charges billed by the hospital

Table 3: Hospitalizations* Among Ohio Resident Newborns Associated with Exposure to Noxious Substances through the Placenta or Breast Milk, 2019-2020**

Noxious Substance Exposure	2019	2020
Cocaine	519	460
Opioids	876	1,018
Sedative-hypnotics	21	23
Anxiolytics	16	17
Other drugs of addiction	1,555	1,641

*Hospitalizations reflect MSDRG codes 789-795 (Neonates and Newborns)

**Cocaine exposure reflects ICD-10-CM code P04.41; Opiate exposure reflects ICD-10-CM code P04.14; Sedative-hypnotic exposure reflects ICD-10-CM code P04.17; Anxiolytic exposure reflects ICD-10-CM code P04.1A; Other drugs of addiction reflects ICD-10-CM code P04.49 (codes could be in primary or 18 secondary dx fields)

Table 4: Ohio Health Outcomes* in Inpatient Settings, NAS Infants vs. All Infants***, 2016-2020**

Health Outcome	2016		2017		2018		2019		2020	
	NAS Infants	All Infants	NAS Infants	All Infants	NAS Infants	All Infants	NAS Infants	All Infants	NAS Infants	All Infants
Feeding Difficulties	16.1%	5.8%	18.4%	6.4%	18.8%	6.5%	21.4%	7.2%	24.8%	7.3%
Low Birth Weight	15.6%	9.4%	19.0%	10.6%	18.3%	10.6%	18.1%	10.9%	19.9%	11.0%
Respiratory Symptoms	17.6%	1.1%	22.5%	11.1%	23.0%	11.2%	23.7%	12.0%	25.0%	12.0%
Seizures & Convulsion	0.7%	0.2%	1.1%	0.2%	1.2%	0.3%	0.5%	0.3%	1.2%	0.2%

*Health Outcomes reflect select ICD-10-CM codes (codes could be in primary or 18 secondary dx fields)

**NAS infants reflect ICD-10-CM code P96.1 (codes could be in primary or 18 secondary dx fields)

***All infants reflect MSDRG 789-795 (Neonates and Newborns)