



2021 Ohio Neonatal Abstinence Syndrome Report

Table 1: Hospitalizations* Among Ohio Resident Newborns for Neonatal Abstinence Syndrome, 2017-2021**

Neonatal Abstinence Syndrome	2017	2018	2019	2020	2021
Neonatal Abstinence Syndrome inpatient discharges	1,935	1,932	1,675	1,652	1,526
Medicaid Discharge	1,753	1,738	1,548	1,516	1,389
Non-Medicaid Discharge	182	194	127	136	137
Average length of days (LOS) in days	13.4	12.7	12.3	13.2	14.0
Total LOS (days)	25,954	24,459	20,549	21,832	20,922
Average charge***	\$65,127	\$69,257	\$69,187	\$82,948	\$86,813
Total charge***	\$126,020,134	\$133,805,842	\$115,888,822	\$137,029,817	\$132,476,366

*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, 2017-2021

Hospital Births	2017	2018	2019	2020	2021
Hospital births inpatient discharges	138,267	135,937	135,487	129,890	129,817
Medicaid Discharge	64,808	63,165	63,294	60,962	58,570
Non-Medicaid Discharge	73,459	72,772	72,193	68,918	71,247
Average LOS (days)	3.8	3.8	3.8	3.7	3.7
Average charge**	\$17,812	\$18,952	\$20,525	\$21,810	\$22,422

*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, 2019-2021**

Noxious Substance Exposure	2019	2020	2021
Cocaine	519	460	466
Opioids	876	1,018	1,088
Sedative-hypnotics	21	23	25
Anxiolytics	16	17	22
Other drugs of addiction	1,555	1,641	1,260

*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***, 2017-2021**

Health Outcome	2017		2018		2019		2020		2021	
	NAS Infants	All Infants	NAS Infants	All Infants	NAS Infants	All Infants	NAS Infants	All Infants	NAS Infants	All Infants
Feeding Difficulties	18.4%	6.4%	18.8%	6.5%	21.4%	7.2%	24.8%	7.3%	30.3%	7.4%
Low Birth Weight	19.0%	10.6%	18.3%	10.6%	18.1%	10.9%	19.9%	11.0%	21.3%	11.4%
Respiratory Symptoms	22.5%	11.1%	23.0%	11.2%	23.7%	12.0%	25.0%	12.0%	28.9%	12.7%
Seizures & Convulsion	1.1%	0.2%	1.2%	0.3%	0.5%	0.3%	1.2%	0.2%	0.8%	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)