



## 2023 Ohio Neonatal Abstinence Syndrome (NAS) Report

**Table 1: Hospitalizations\* Among Ohio Resident Newborns for Neonatal Abstinence Syndrome\*\*, 2019-2023**

Neonatal Abstinence Syndrome	2019	2020	2021	2022	2023
Neonatal Abstinence Syndrome inpatient discharges	1,675	1,652	1,526	1,300	1,156
<i>Medicaid discharge</i>	1,548	1,516	1,389	1,165	1,013
<i>Non-Medicaid discharge</i>	127	136	137	135	143
Average length of stay (LOS) in days	12.3	13.2	13.7	12.8	14.9
Total LOS (days)	20,549	21,832	20,922	16,628	17,229
Average charge***	\$69,187.36	\$82,947.83	\$86,812.82	\$84,754.39	\$107,052.52
Total charge***	\$115,888,821.87	\$137,029,817.22	\$132,476,365.50	\$110,180,701.28	\$123,752,711.01

\*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, 2019-2023**

Hospital Births	2019	2020	2021	2022	2023
Hospital births inpatient discharges	135,487	129,880	129,817	128,384	127,542
<i>Medicaid discharge</i>	63,294	60,962	58,570	57,210	55,247
<i>Non-Medicaid discharge</i>	72,193	68,918	71,247	71,174	72,295
Average LOS (days)	3.8	3.7	3.7	3.7	3.8
Average charge**	\$20,525	\$21,810	\$22,422	\$23,371	\$25,509

\*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, 2019-2023**

Noxious Substance Exposure	2019	2020	2021	2022	2023
Cocaine	519	460	466	469	385
Opioids	876	1,018	1,089	1,167	1,061
Sedative-hypnotics	21	23	25	29	21
Anxiolytics	16	17	22	14	23
Other drugs of addiction	1,555	1,641	1,260	779	703
Unspecified drugs of addiction	320	301	223	162	155

\*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; Unspecified drugs of addiction reflects code P04.40 (codes could be in primary or 18 secondary dx fields)

**Table 4: Ohio Health Outcomes\* in Inpatient Settings, Infants with NAS\*\* vs. All Infants\*\*\*, 2019-2023\*\*\*\***

Health Outcome	2019		2020		2021		2022		2023	
	Infants with NAS	All Infants	Infants with NAS	All Infants	Infants with NAS	All Infants	Infants with NAS	All Infants	Infants with NAS	All Infants
Feeding Difficulties	21.4%	7.2%	24.8%	7.3%	30.3%	7.4%	31.4%	7.4%	35.7%	7.9%
Low Birth Weight	18.1%	10.9%	19.9%	11.0%	21.3%	11.4%	20.5%	11.8%	20.7%	12.0%
Respiratory Symptoms	23.7%	12.0%	25.0%	12.0%	28.9%	12.7%	30.4%	12.9%	32.1%	13.1%
Seizures & Convulsion	0.5%	0.3%	1.2%	0.2%	0.8%	0.2%	0.8%	0.3%	1.0%	0.3%

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

\*\*Infants with NAS 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)

\*\*\*\* Percentages reflect the number of hospitalizations with the associated ICD-10-CM code for each group of infants, divided by the total hospitalizations for each group of infants .