

2018 Ohio Neonatal Abstinence Syndrome Report

Revised 12.13.2019

Table 1: Hospitalizations* Among Ohio Resident Newborns for Neonatal Abstinence Syndrome, 2006-2018**

Neonatal Abstinence Syndrome	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Neonatal Abstinence Syndrome inpatient discharges	305	369	477	715	953	1172	1482	1717	1919	2174	2223	1935	1932
Medicaid Discharge	222	288	369	583	811	998	1322	1502	1741	1950	1986	1753	1738
Non-Medicaid Discharge	83	81	108	132	142	174	160	215	178	224	237	182	194
Average length of days (LOS) in days	16	19.5	20.1	19.6	18.9	16.37	17.73	15.19	14.9	13.9	12.9	13.41	12.7
Total LOS (days)	4,892	7,200	9,580	14,006	17,965	19,181	21,834	26,085	28,580	30,153	28,656	25,954	24,459
Average charge***	\$39,561	\$59,033	\$59,580	\$72,158	\$64,911	\$59,847	\$57,813	\$61,469	\$68,666	\$61,241	\$61,598	\$65,127	\$69,257
Total charge***	\$12,066,087	\$20,982,542	\$28,419,546	\$51,592,956	\$61,860,258	\$70,140,821	\$85,678,946	\$105,542,816	\$131,770,486	\$133,138,341	\$136,932,674	\$126,020,134	\$133,805,842

*Hospitalizations occurred in Ohio hospitals to Ohio residents

**NAS reflects ICD-9 CM code 779.5 for 2006 - 9/30/2015 and ICD-10-CM code P96.1 for 10/01/2015 - 2016 (NAS-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, 2006-2018

Hospital Births	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Hospital births inpatient discharges	152,740	151,454	148,800	146,226	139,987	137,168	139,517	140,034	140,656	140,658	140,142	138,267	135,937
Medicaid Discharge	60,976	59,830	61,461	65,062	63,710	62,429	67,364	65,415	67,308	67,009	63,792	64,808	63,165
Non-Medicaid Discharge	91,764	91,624	87,339	81,164	76,277	74,739	72,153	74,619	73,348	73,649	76,350	73,459	72,772
Average LOS (days)	3.4	3.5	3.5	3.6	3.6	3.6	3.8	3.7	3.7	3.7	3.7	3.8	3.8
Average charge**	\$6,838	\$7,870	\$8,660	\$9,680	\$10,336	\$11,452	\$12,977	\$13,604	\$14,570	\$15,494	\$16,695	\$17,812	\$18,952

*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 , 2018**

Noxious Substance Exposure	2016	2017	2018
Cocaine	343	308	393
Opioid & Hallucinogen	3106	2702	2899

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

**Cocaine exposure reflects ICD-10-CM code P04.41; Opioids & Hallucinogen reflects ICD10 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***, 2018**

Health Outcome	2016		2017		2018	
	NAS Infants	All Infants	NAS Infants	All Infants	NAS Infants	All Infants
Feeding Difficulties	16.09%	5.83%	18.38%	6.36%	18.78%	6.49%
Low Birth Weight	15.59%	9.44%	18.96%	10.56%	18.30%	10.59%
Respiratory Symptoms	17.60%	1.05%	22.53%	11.05%	23.00%	11.23%
Seizures & Convulsion	0.73%	0.23%	1.10%	0.21%	1.16%	0.27%

*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)

Table 5: Ohio Drug Abuse or Dependence Diagnoses of the Mother at Time of Delivery*, 2018

Drug Category**	2016	2017	2018
Marijuana	2,733	3,032	3,523
Opioid	2,177	1,961	1,954
Cocaine	437	498	522
Other (Amphetamine Psychostimulant, Hallucinogens and Sedatives)	188	237	365
Total Delivering Mothers Diagnosed with Drug Abuse or Dependence***	4,807	5,047	5,577

Hospitalizations occurred in Ohio hospitals to Ohio residents

*Deliveries reflect MSDRG codes 765-768, 774-775, 783-788, 796-798, and 805-807 (Vaginal Deliveries and C-Sections)

**Drug categories reflect select ICD-10 Codes (could be in primary or 18 secondary dx fields)

Data Source: Ohio Hospital Association