



2022 Ohio Neonatal Abstinence Syndrome Report

Table 1: Hospitalizations* Among Ohio Resident Newborns for Neonatal Abstinence Syndrome, 2018-2022**

| Neonatal Abstinence Syndrome | 2018 | 2019 | 2020 | 2021 | 2022 |
|---|---------------|---------------|---------------|---------------|---------------|
| Neonatal Abstinence Syndrome inpatient discharges | 1,932 | 1,675 | 1,652 | 1,526 | 1,300 |
| <i>Medicaid discharge</i> | 1,738 | 1,548 | 1,516 | 1,389 | 1,165 |
| <i>Non-Medicaid discharge</i> | 194 | 127 | 136 | 137 | 135 |
| Average length of days (LOS) in days | 12.7 | 12.3 | 13.2 | 13.7 | 12.8 |
| Total LOS (days) | 24,459 | 20,549 | 21,832 | 20,922 | 16,628 |
| Average charge*** | \$69,257 | \$69,187 | \$82,948 | \$86,813 | \$84,754 |
| Total charge*** | \$133,805,842 | \$115,888,822 | \$137,029,817 | \$132,476,366 | \$110,180,701 |

*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, 2018-2022

| Hospital Births | 2018 | 2019 | 2020 | 2021 | 2022 |
|--------------------------------------|----------|----------|----------|----------|----------|
| Hospital births inpatient discharges | 135,937 | 135,487 | 129,890 | 129,817 | 128,384 |
| <i>Medicaid discharge</i> | 63,165 | 63,294 | 60,962 | 58,570 | 57,210 |
| <i>Non-Medicaid discharge</i> | 72,772 | 72,193 | 68,918 | 71,247 | 71,174 |
| Average LOS (days) | 3.8 | 3.8 | 3.7 | 3.66 | 3.7 |
| Average charge** | \$18,952 | \$20,525 | \$21,810 | \$22,422 | \$23,371 |

*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, 2019-2022**

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

*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, NAS Infants vs. All Infants***, 2018-2022**

| Health Outcome | 2018 | | 2019 | | 2020 | | 2021 | | 2022 | |
|-----------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | NAS Infants | All Infants | NAS Infants | All Infants | NAS Infants | All Infants | NAS Infants | All Infants | NAS Infants | All Infants |
| Feeding Difficulties | 18.8% | 6.5% | 21.4% | 7.2% | 24.8% | 7.3% | 30.3% | 7.4% | 31.4% | 7.4% |
| Low Birth Weight | 18.3% | 10.6% | 18.1% | 10.9% | 19.9% | 11.0% | 21.3% | 11.4% | 20.5% | 11.8% |
| Respiratory Symptoms | 23.0% | 11.2% | 23.7% | 12.0% | 25.0% | 12.0% | 28.9% | 12.7% | 30.4% | 12.9% |
| Seizures & Convulsion | 1.2% | 0.3% | 0.5% | 0.3% | 1.2% | 0.2% | 0.8% | 0.2% | 0.8% | 0.3% |

*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)