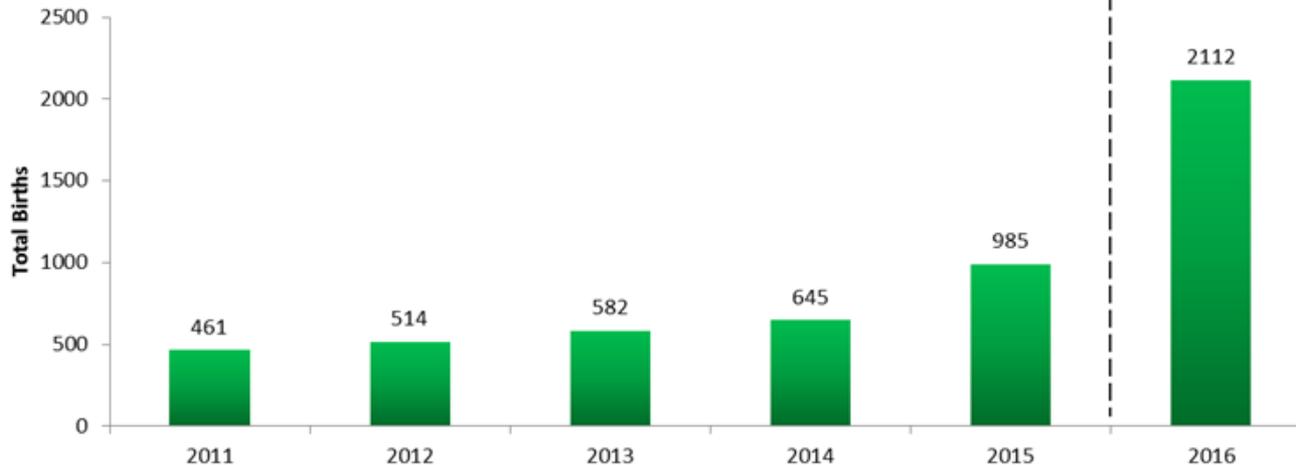


## Neonatal Abstinence Syndrome (NAS) Infants Born in Missouri 2011-2016



Source: Bureau of Health Care Analysis and Data Dissemination, Missouri Department of Health and Senior Services  
The dashed line indicates a coding transition from ICD-9-CM to ICD-10-CM. This change may have contributed to the increase in NAS cases between 2015 and 2016.

The age/sex distribution seen in the opioid discharges becomes especially concerning when focus shifts to another disturbing trend in Missouri. Neonatal Abstinence Syndrome (NAS)\* occurs when a mother uses drugs in utero or passes the substance to her infant through breast milk or the placenta. The infant is born essentially withdrawing from the drug, causing a host of physical manifestations. As the chart\*\* indicates, NAS rates have experienced a rapid increase in 2016 statewide. There was a 358% increase in NAS counts in just five years between 2011 and 2016.

\* The NAS definition here includes all Missouri resident newborns with an ICD-9 code of 779.5 or 760.72 appearing anywhere on the newborn record or a record where the admission date was within the patient's first year of life between 2011 and 2015. For 2015 to now, NAS cases are identified with ICD-10 codes of P96.1, P96.2, P04.4, and P04.49 appearing anywhere on the newborn record or a record where the admission date was within the patient's first year of life.

\*\* Data represented in this bar graph are de-duplicated counts of infants who were diagnosed with NAS within the first year of life. Infants with NAS could be discharged more than once, but, in this chart, each child is counted only once. Data for length of stay, charges, and insurance payer displayed in later charts in this section are based upon total discharges during the year; so potentially multiple records for the same child are included in those statistics. Also note that not all the NAS cases have associated charges. Charges associated with the newborn record (for patients with more than one discharge) are primarily used.