Neonatal abstinence syndrome (NAS) is a withdrawal syndrome in infants born to mothers who used opioids during pregnancy. The median length of treatment was 19 days for inpatients & 60 days for outpatients. Providers should be cautious when discharging NAS patients on medication. More research on management of NAS is needed. Among TN infants covered by Medicaid born from 2009-2011: 46% of infants medicated for NAS were treated as outpatients. The median length of treatment was 19 days for inpatients & 60 days for outpatients. Outpatient therapy was 3x longer. 36% % inpatient & outpatient infants with at least one emergency department visit within six months. ED utilization higher for outpatients. 89% of outpatient infants with NAS were treated with phenobarbital. The sedative phenobarbital has been associated with poor neurologic outcomes.