WHAT WE FOUND:

Nationally, trends in antipsychotic use differed from trends in psychotropic medications overall:
- All psychotropic use among children in foster care increased from 2002 to 2004, and then began to decline from 2005 to 2007.
- Antipsychotics experienced a consistent increase every year from 2002 to 2007.

From 2002 to 2007, most states demonstrated increases in antipsychotic prescribing. In contrast, polypharmacy prescribing decreased in roughly half of states over this same period:
- Antipsychotic prescribing increased in 45 states, decreased in only two states and showed no change in one state.
- Polypharmacy prescribing increased in 18 states, decreased in 19 states and showed no change in 11 states.

At a state level, there was wide variation in the prevalence of both polypharmacy and antipsychotic use among children in foster care:
- 2007 polypharmacy range: 1% to 14% prevalence by state.
- 2007 antipsychotic range: 3% to 22% prevalence by state.

WHAT IT MEANS:

Over the past decade, the proportion of children in foster care who were prescribed psychotropic drugs remained much higher than all Medicaid-enrolled children.

The consistent increase in antipsychotic use among children in foster care across almost every state stands in contrast to trends in other psychotropic medications, both alone and in combination.

Wide state-level variation in medication rates shows that where a child lives seems to influence his or her chance of being prescribed a psychotropic drug at least as much as the child’s medical needs.

In addition to using this data to support oversight and monitoring efforts, states should consider strategies to implement evidence-based practices, including counseling and behavioral interventions, as an alternate or complementary treatment strategy for the children with mental health needs.
STUDY METHODS:

The data source was Medicaid Analytic Extract (MAX) data files for 50 states and the District of Columbia for years 2002 through 2007. Child-level demographic, eligibility, encounter, and pharmacy data were extracted from MAX files. Medicaid eligibility category was used as the basis for classifying youth in foster care. The sample was restricted to foster care children aged 3-18 years of age with continuous Medicaid eligibility, defined as 10 of 12 months in a given year. The dependent variables were a) use of second-generation antipsychotics (SGA) and b) psychotropic polypharmacy, defined as the concurrent use of ≥3 psychotropic medication classes during the year. Psychotropic classes included stimulants, antidepressants, SGAs, sedative/hypnotics, anxiolytics, mood-stabilizers, and alpha agonists. Independent variables included demographic information (age, race/ethnicity, sex, state of residence), psychiatric diagnoses, and a count of behavioral health encounters. Three states were deemed ineligible for use in this study (CT, MA, ME) due to data quality issues. Demographic, clinical, and medication use characteristics were summarized as frequencies across year and categories of age (3-5, 6-11, 12-18). Generalized linear models (logit link) with a state-year interaction were then used to estimate state-level variation in medication use among children over time. Results were standardized by child-level characteristics, including age group, gender, race, diagnosis of mental retardation, and diagnosis of seizure disorder. Results were transformed into probabilities within state. The resulting standardized probabilities of SGA and polypharmacy receipt were then used to characterize change over time within state. An annual increase was defined as a relative increase of ≥ 5% from one year to the next; an annual decrease was defined as a relative decrease of ≥ 5%; annual relative change of <5% was categorized as no change.