## PEDIATRIC SURGE PREHOSPITAL DATA

## PEDIATRIC SURGE PREHOSPITAL DATA

The charts on the following pages show data from U.S. EMS agencies on 911-initiated EMS activations for pediatric patients with symptoms of influenza-like illnesses (ILI).

The Health Resources and Services Administration, in partnership with the Pediatric Pandemic Network and Emergency Medical Services for Children Program, is compiling and sharing this data from the National EMS Information System (NEMSIS) to provide a quantitative view of how the ongoing surge of respiratory illnesses among children is affecting prehospital systems.

**Source:** NEMSIS (U.S. Department of Transportation National Highway Traffic Safety

Administration – Office of EMS – National EMS Information System), using data reported by state EMS offices.

**Geography:** National (includes data from all U.S. states, DC, and three territories)

Age range: Date grouped by age (0-3, 4-5, 6-11, and 12-17 years) and combined (0-17 years)

**Years:** 2019–2022 (current)

Influenza-Like Illnesses (ILI): NEMSIS uses the International Classification of Diseases, 10th Revision, Clinical Modification (ICD-10-CM) to define ILI. In this data set, 911 activations for ILI are based on ICD-10 codes related to influenza, pneumonia, bronchiolitis, bronchiolitis, coronavirus, and more, and to symptoms such as tonsillitis, breathing abnormalities, nasal congestion, fever, and fatigue. For a complete list of relevant ICD-10 codes and their definitions, please see the NEMSIS National Influenza-Like Illness (ILI) Surveillance Dashboard.

<u>Link to table of NEMSIS counts of National All-Cause Pediatric (0-17) Activations, National ILI Pediatric (0-17) Activations, National All-Cause All Age Activations</u>

**UPDATED: FEBRUARY 21, 2023** 



## RATES OF INFLUENZA-LIKE ILLNESSES AMONG CHILDREN & ADOLESCENTS

The following five charts show rates of influenza-like illnesses (ILI) among all children and adolescents (0-17) and by age group (0-3, 4-5, 6-11, 12-17) as documented through 911 patient contacts.

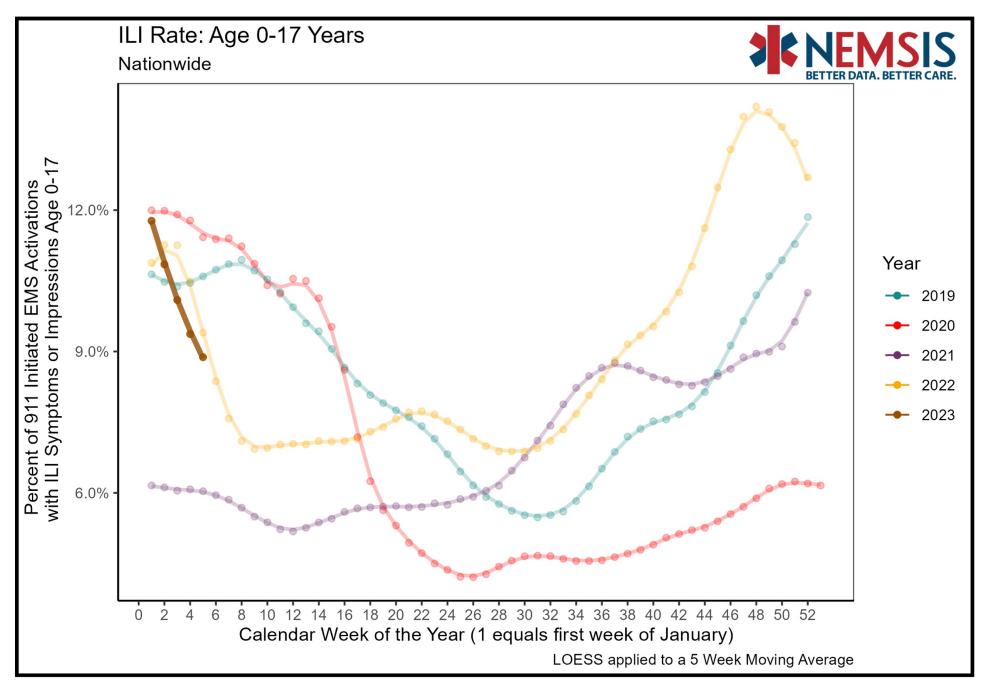
The calculations are based on the number of 911 activations for children (age 17 and under) with ILI, as observed through primary symptoms, associated symptoms, or primary or secondary impressions.

Chart #1 shows the percentage of all children (0–17 years) with ILI symptoms or impressions out of all pediatric 911 activations (for all causes). In Week 47 of 2022 (Nov. 20–26), pediatric ILI cases accounted for nearly 14% of all pediatric 911 activations (3,975 activations for pediatric ILI, out of 28,420 overall pediatric activations). In the same week in 2021, 9.3% (3,142) of all pediatric activations were related to ILI.

Charts #2–5 show the percentage of children in specific age groups (0–3, 4–5, 6–11, and 12–17) with ILI symptoms or impressions out of all 911 activations for patients of all ages (including adults) and all causes. As with the first chart, these age–group charts demonstrate an uptick in the percentage of ILI cases among children in 2022 over recent years. In Week 47 of 2022, for example, children ages 0–3 and 4–5 with ILI symptoms or impressions accounted for over 0.5% and 0.12%, respectively, of all 911 activations, versus closer to 0.3% and 0.06% during the same period in 2021.









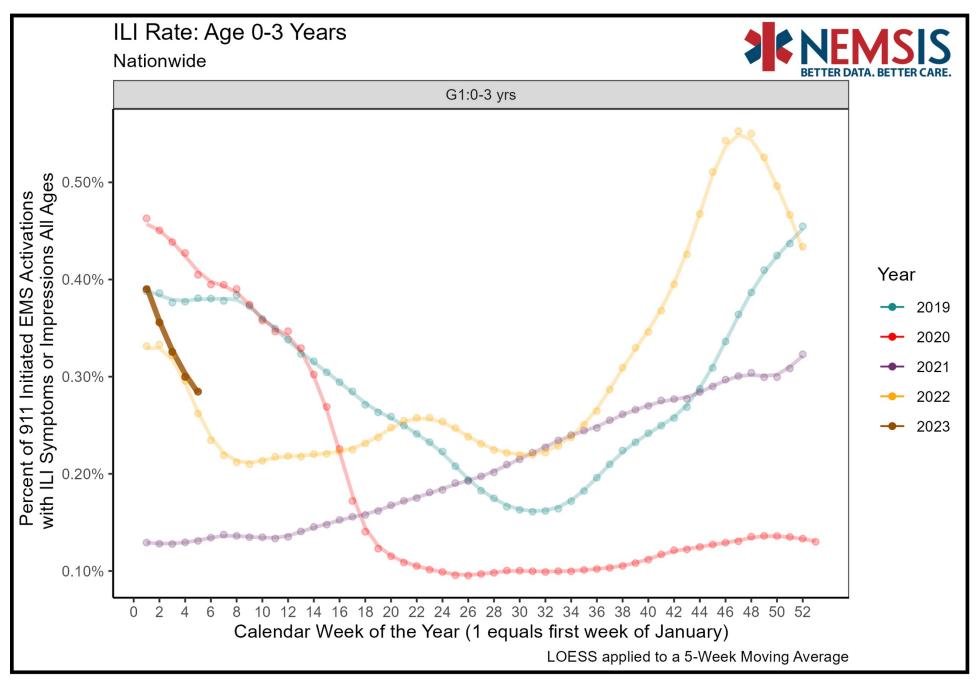


CHART 2 Numerator: 911 Patient Contact, ILI Symptoms/Impressions, Ages 0-3 (with missing age removed)
Denominator: 911 Patient Contact, All-Cause, All Ages (including activations with missing age entries)





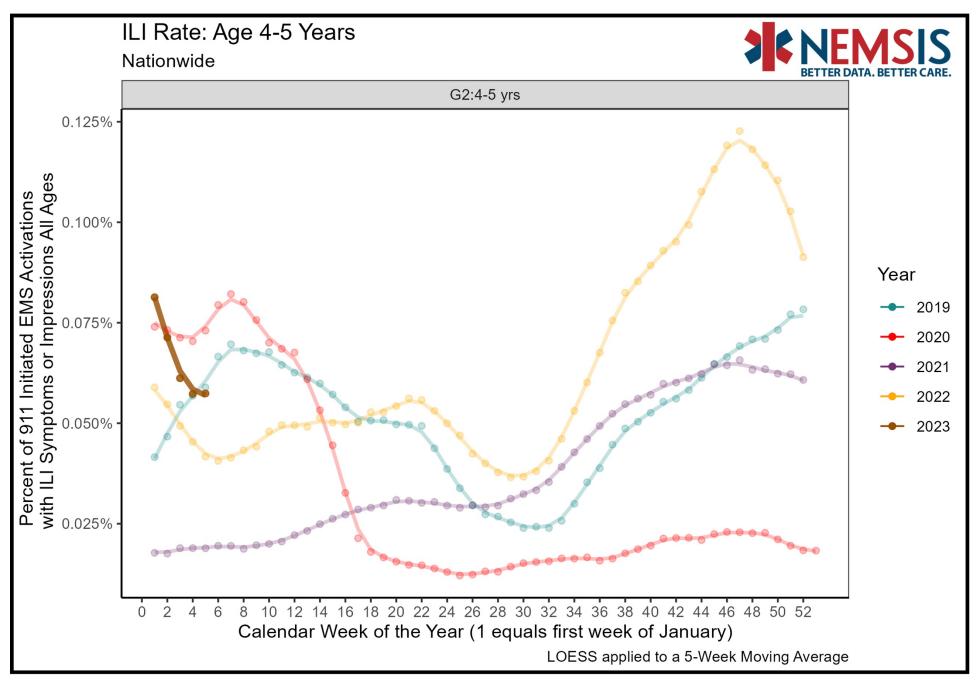


CHART 3 Numerator: 911 Patient Contact, ILI Symptoms/Impressions, Ages 4-5 (with missing age removed)
Denominator: 911 Patient Contact, All-Cause, All Ages (including activations with missing age entries)



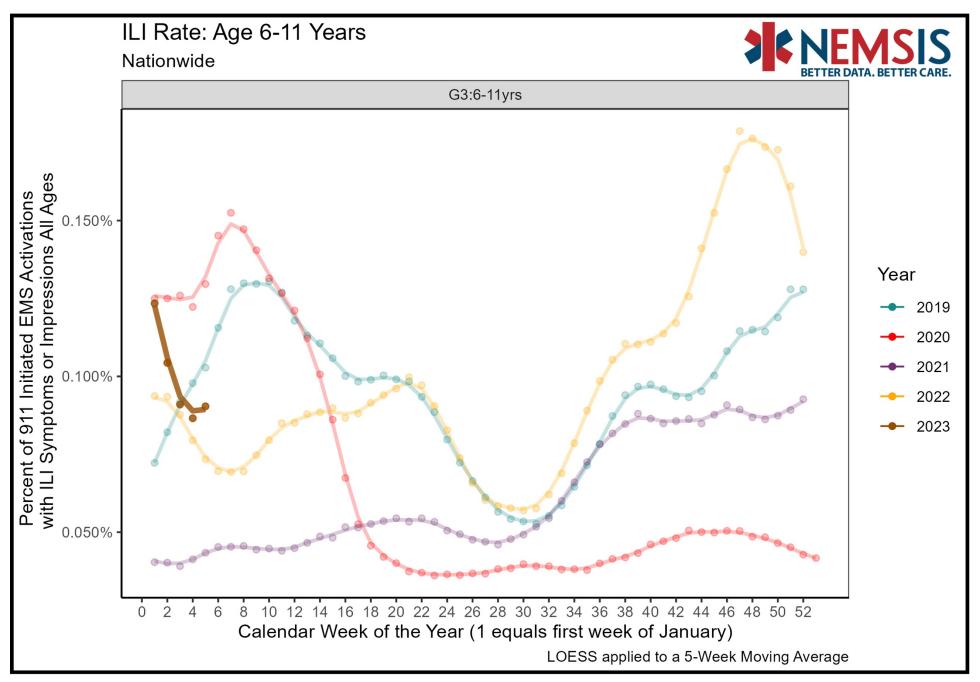
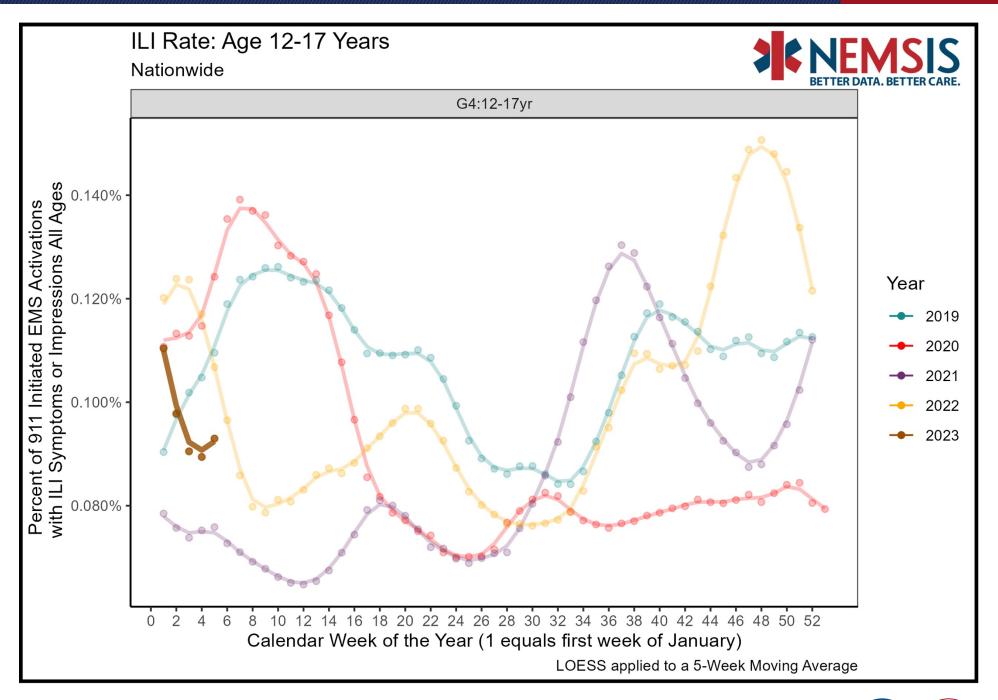


CHART 4 Numerator: 911 Patient Contact, ILI Symptoms/Impressions, Ages 6-11 (with missing age removed)

Denominator: 911 Patient Contact, All-Cause, All Ages (including activations with missing age entries)







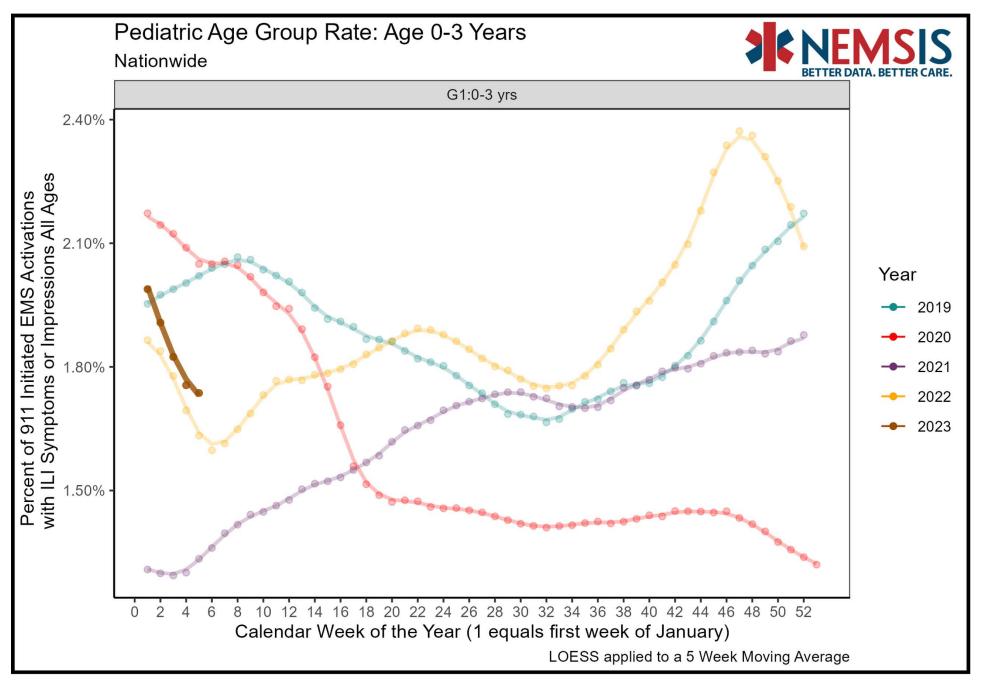
The remaining charts offer additional detail on 911 activations for children and adolescents to help illustrate the impact of pediatric influenza-like illness (ILI) in prehospital settings.

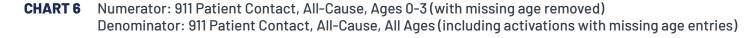
Pediatric Age Group Rates (Charts #6–9): These charts show all 911 activations (for all causes) for specific pediatric age groups (0–3, 4–5, 6–11, 12–17) as a percentage of all 911 activations (for all ages, including adults, and all causes). In Week 47 of 2022, for example, children in the 0–3 age group accounted for approximately 2.4% of all 911 activations, versus under 2% in 2021, and under 1.5% in 2020.

**ILI Rates Within Age Groups (Charts #10–13):** These charts show the **rate of pediatric ILI cases within a specific age group** – for example, the percentage of 911 activations for children ages 4–5 with ILI symptoms and/or impressions, out of all activations for that age group. In Week 47 of 2022, more than 20% of activations for children ages 4–5 involved ILI symptoms, versus around 15% in the same period in 2021.

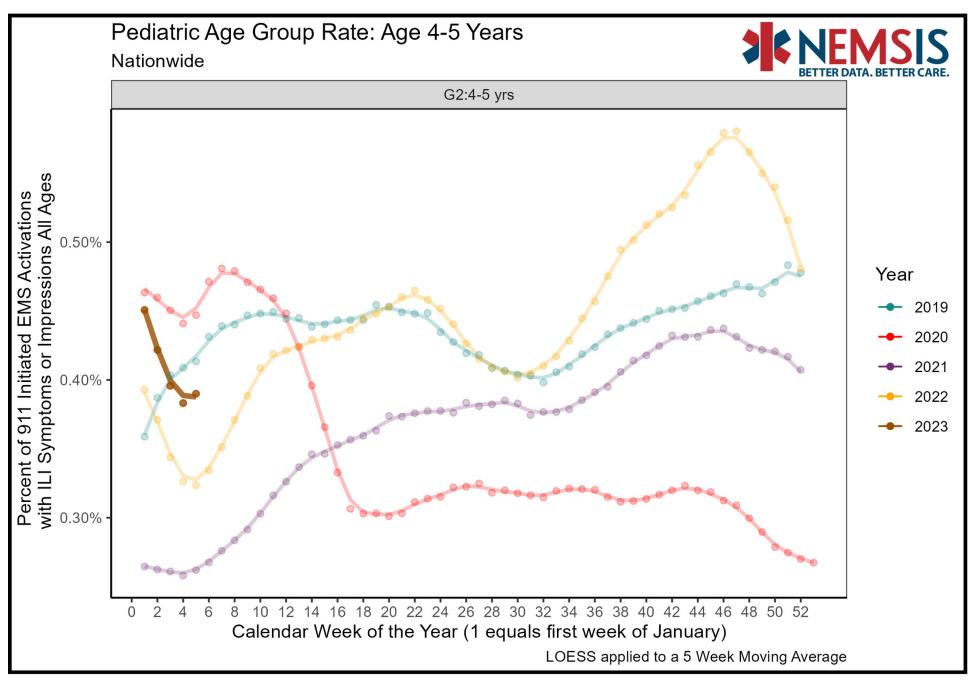






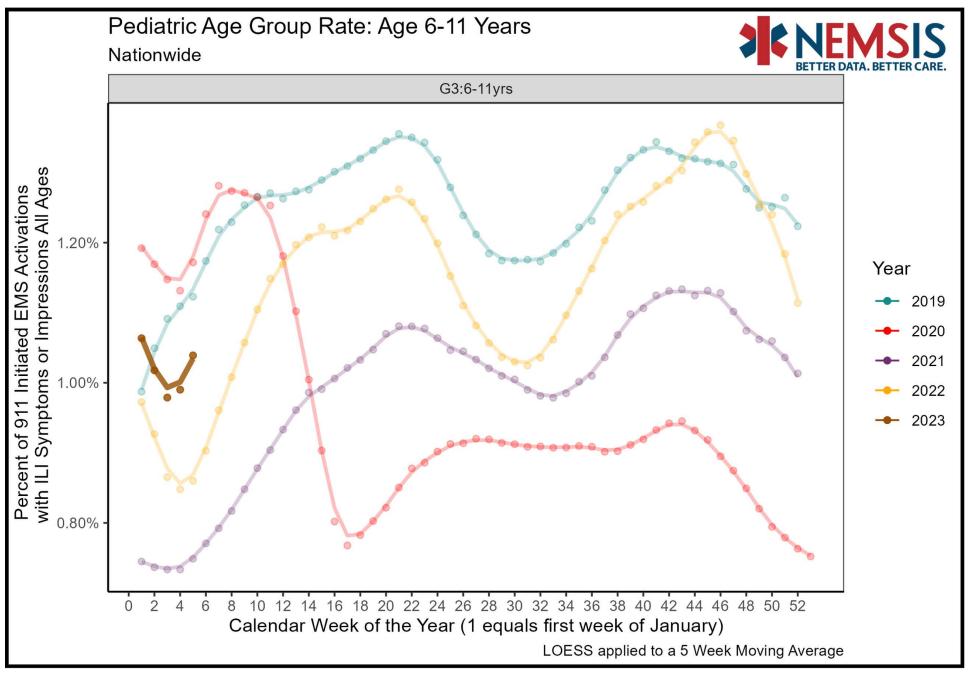


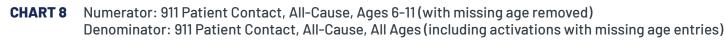






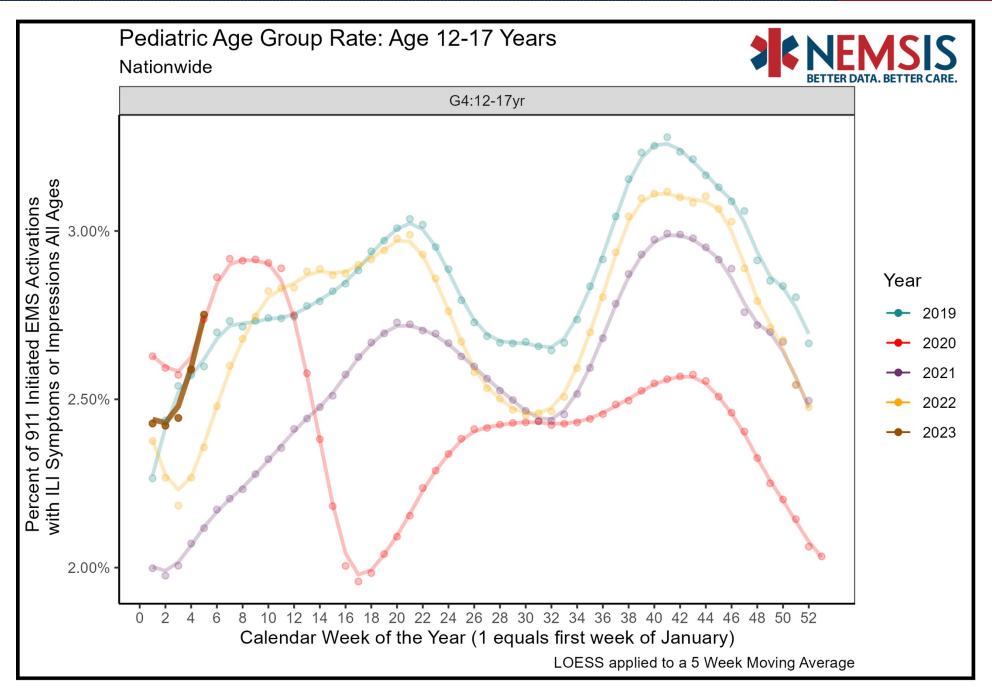






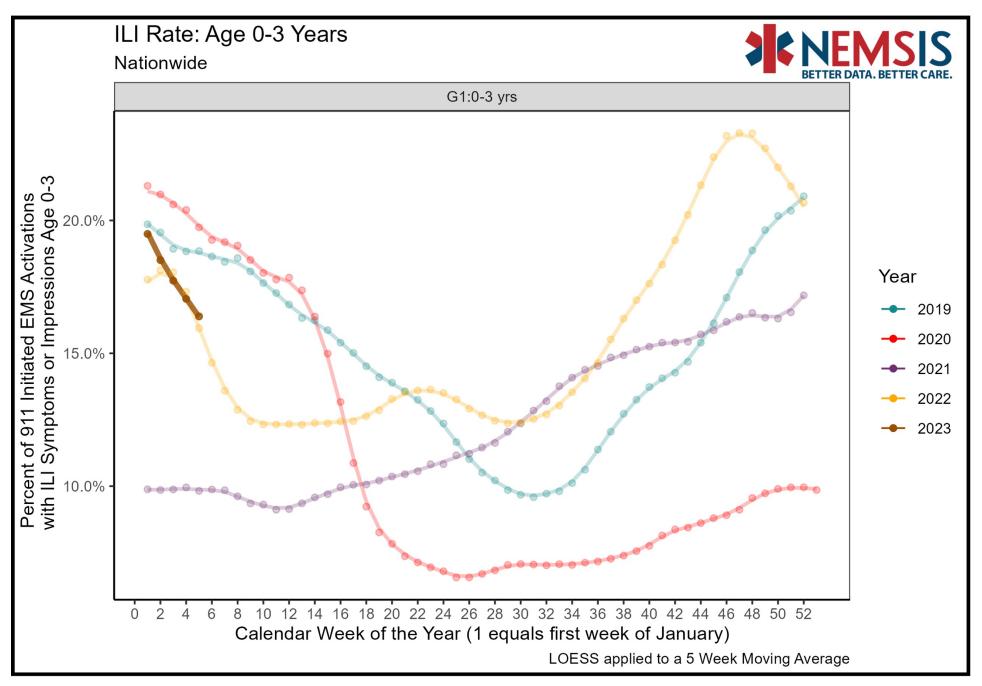




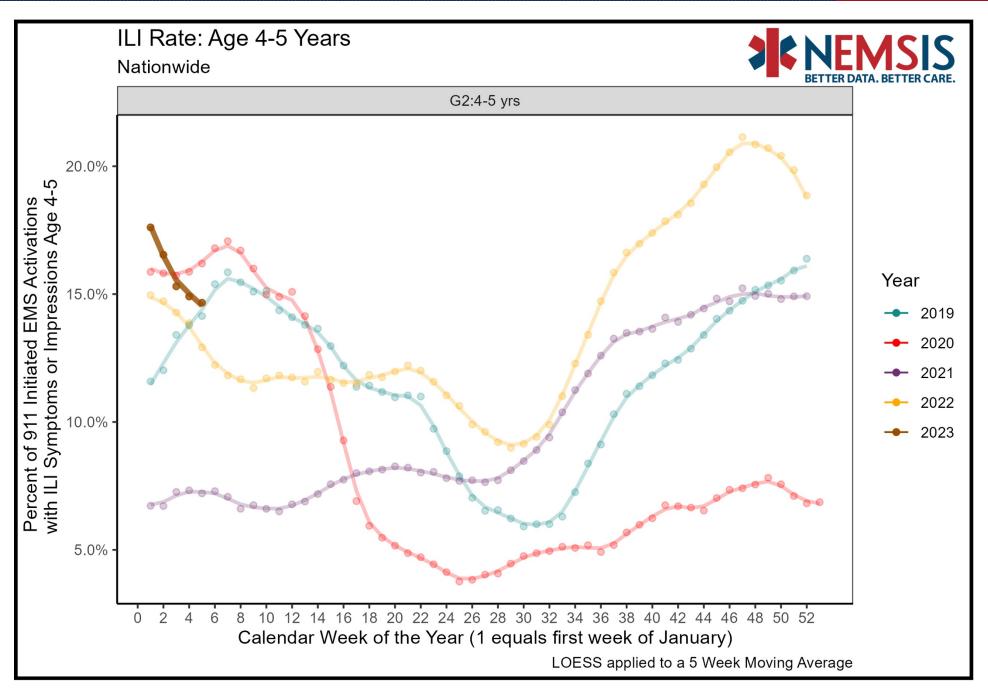




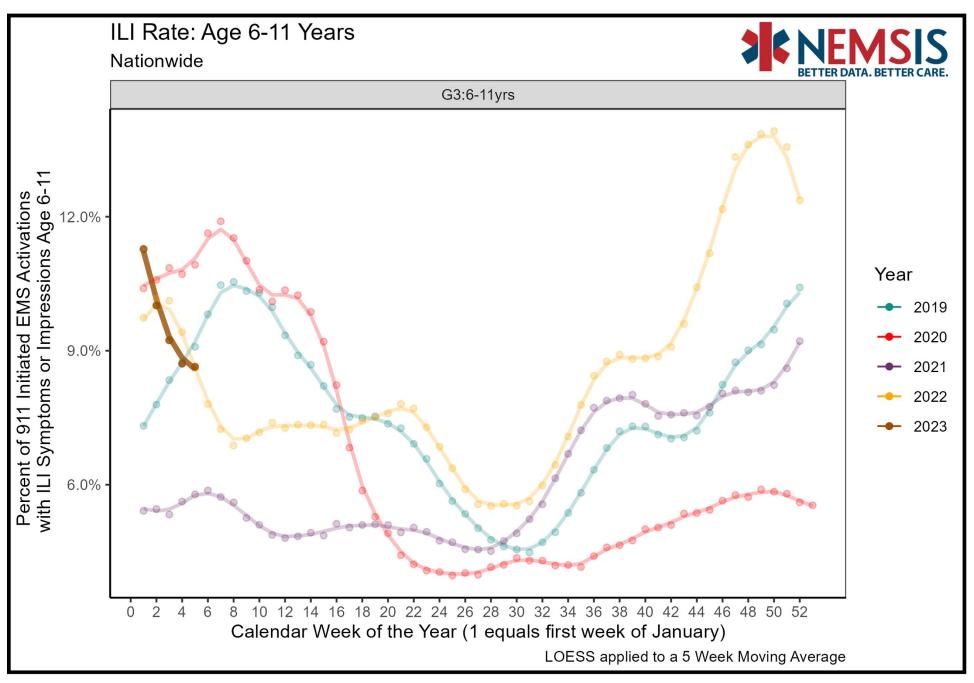




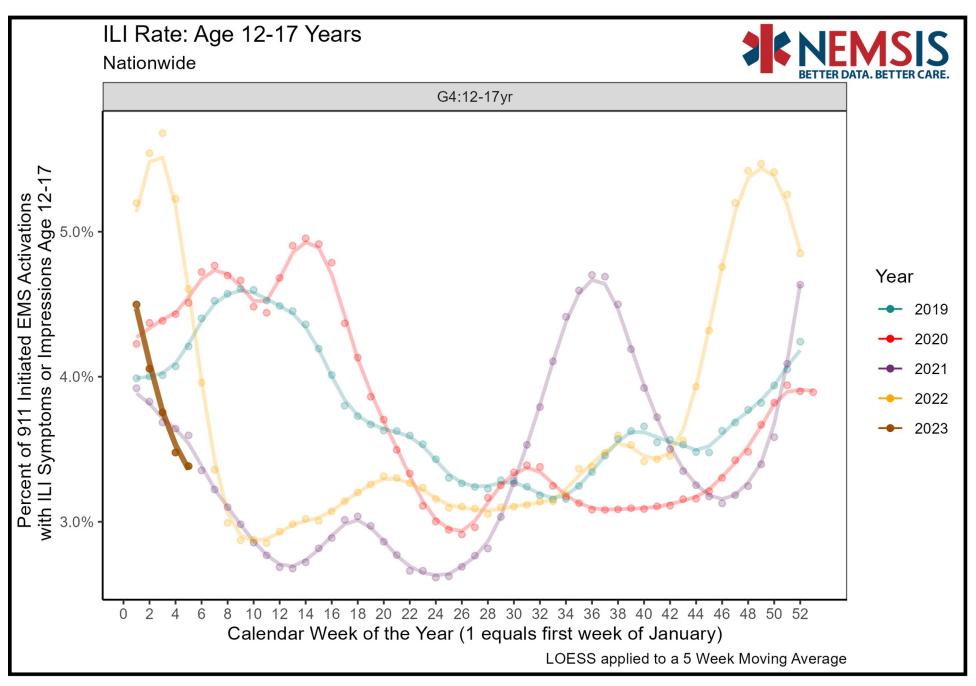


















## This data will be updated periodically. Please visit the Pediatric Pandemic Network website for the latest version.

Contact pediatricpandemicnetwork@gmail.com with any questions.

The Emergency Medical Services for Children Innovation and Improvement Center and the Pediatric Pandemic Network are supported by the Health Resources and Services Administration (HRSA) of the U.S. Department of Health and Human Services (HHS) as part of awards U07MC37471, U1IMC43532, and U1IMC45814 with 0 percent financed with nongovernmental sources. The contents are those of the author(s) and do not necessarily represent the official views of, nor an endorsement, by HRSA, HHS, or the U.S. Government. For more information, please visit HRSA.gov.



