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Background

Existing knowledge

- In October 2022, the FDA announced a **shortage of amphetamine** mixed salts (Adderall, henceforth referred to as amphetamine), commonly prescribed to treat attention deficient hyperactivity disorder (ADHD) and narcolepsy
- •The shortage was partially driven by an **increase in demand**
- Little is known about what demographic groups may be contributing to the increasing demand or how this shortage impacted patients

Objectives

- 1) Describe trends in first-time ADHD diagnoses and new amphetamine prescriptions over time
- 2) Describe the percentage of amphetamine prescriptions that were successfully filled and periods where patients were prevented or delayed from receiving their prescriptions

Methods

Data

- A subset of Truveta Data was used; Truveta Data is comprised of real-world US electronic health record (EHR) data, which is aggregated, normalized, and de-identified from US health care systems comprising clinics and hospitals
- Data included conditions, medication requests (e.g., prescriptions), medication dispensing (e.g., fills), encounters, and patient demographics

Diagnosis and prescription increases

Population

- Patients with at least one outpatient encounter within the prior 2 years (Jan 2021 – Oct 2024)
- Excluded patients with any prior ADHD diagnosis or amphetamine prescription

Analysis

- Calculated the rate of first-time ADHD diagnosis or first-time amphetamine prescriptions, stratified by age group: 0-18 years, 18-29 years, 30-44 years, 45-64 years, and 65+ years
- Diagnosis and prescription populations were analyzed independently
- Linear regression models were used to test for changes over time
- Percentage of prescriptions filled Population
- Patients with at least one amphetamine prescription, Jan 2021 May 2024
- Patients were required to have prior evidence of a prescription fill Analysis
- Determined days between prescription and fill
- Calculated the rate of prescriptions that were filled within 5-, 10-, and 30days
- Describe periods of low fill rates

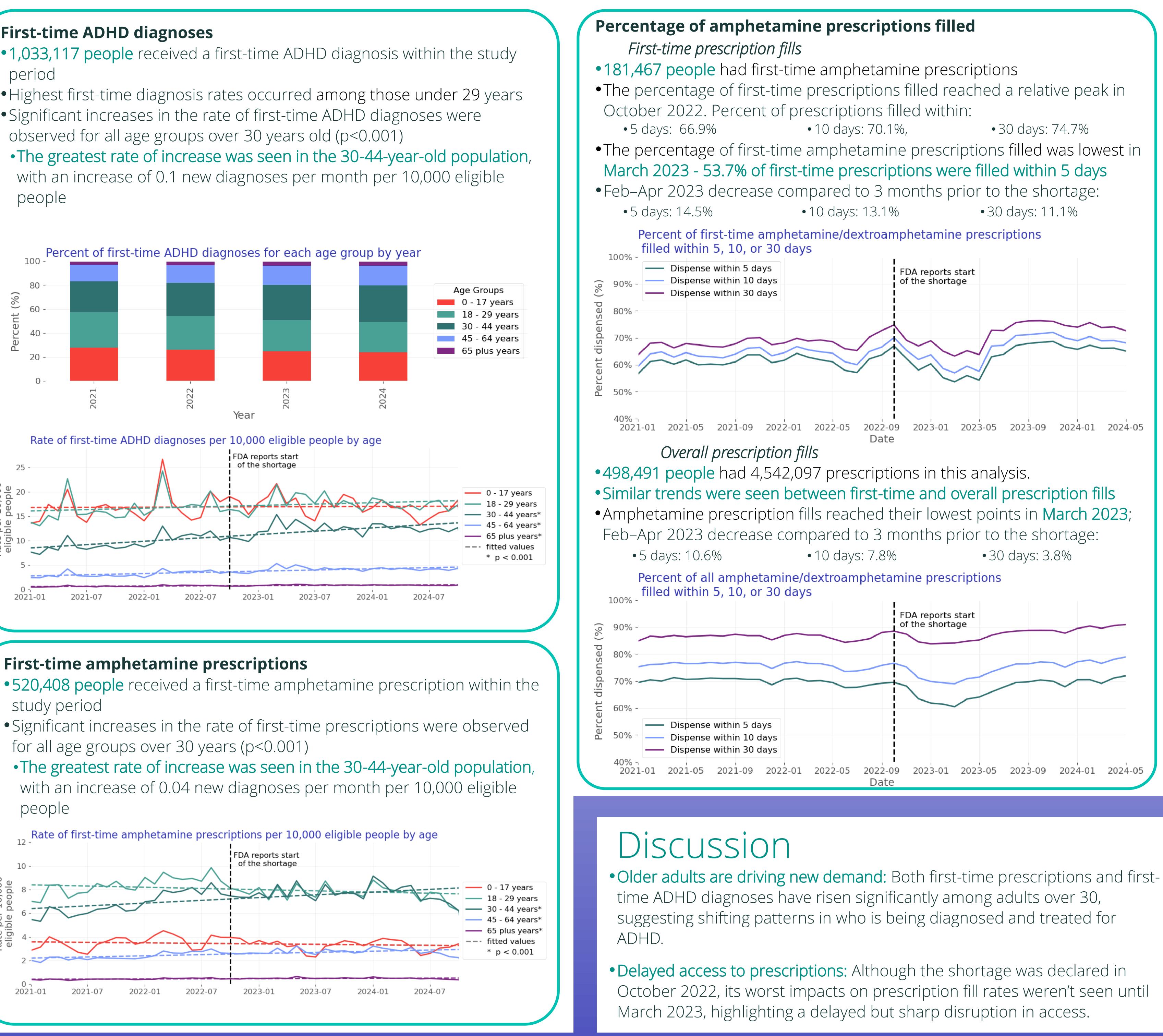
An increase in adults over 30 receiving ADHD diagnoses and amphetamine prescriptions may have contributed to the Adderall shortage; patients reached peak delays in the ability to access prescriptions in March 2023.

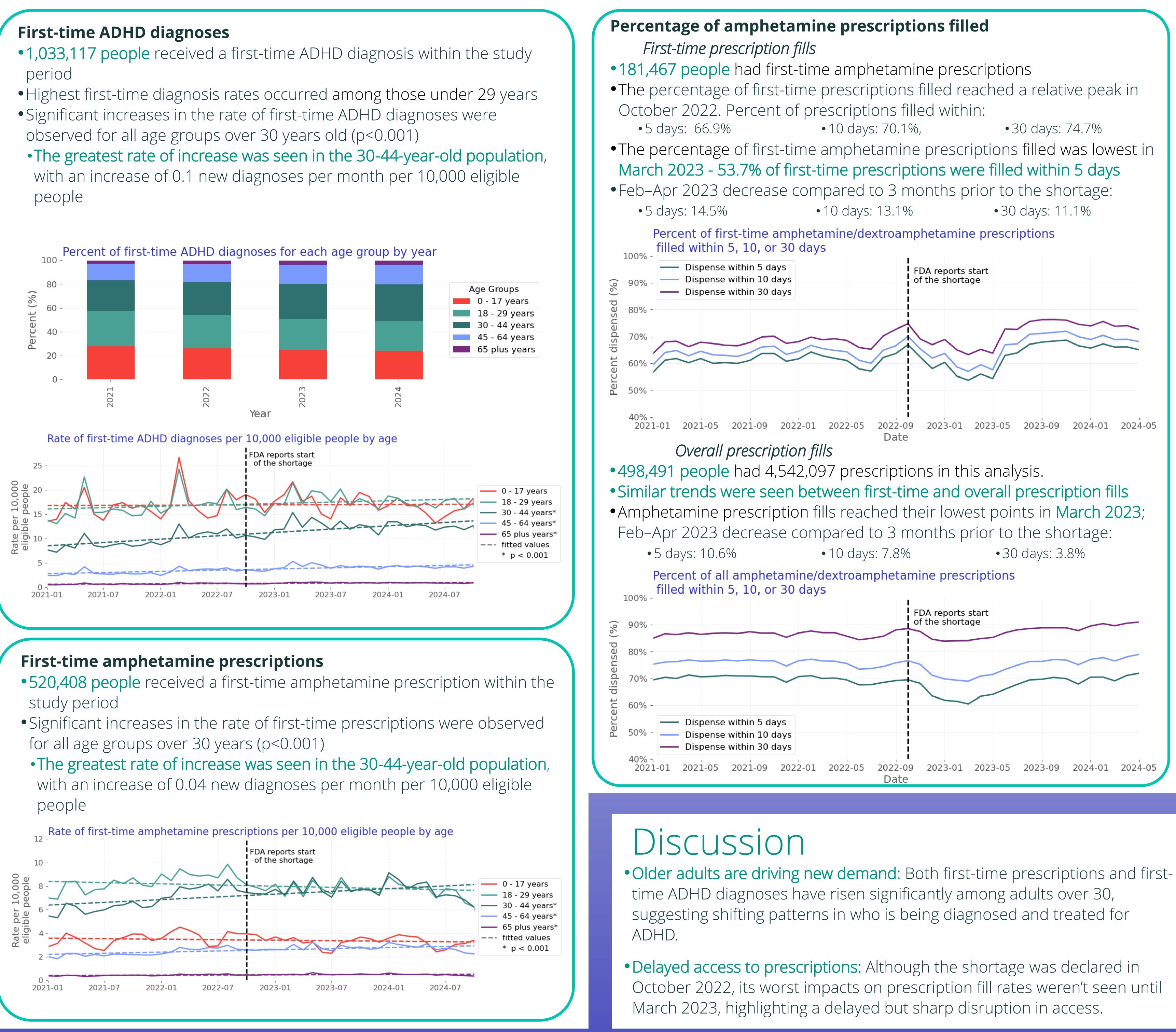
Disclosures: All authors are employees of Truveta Inc.

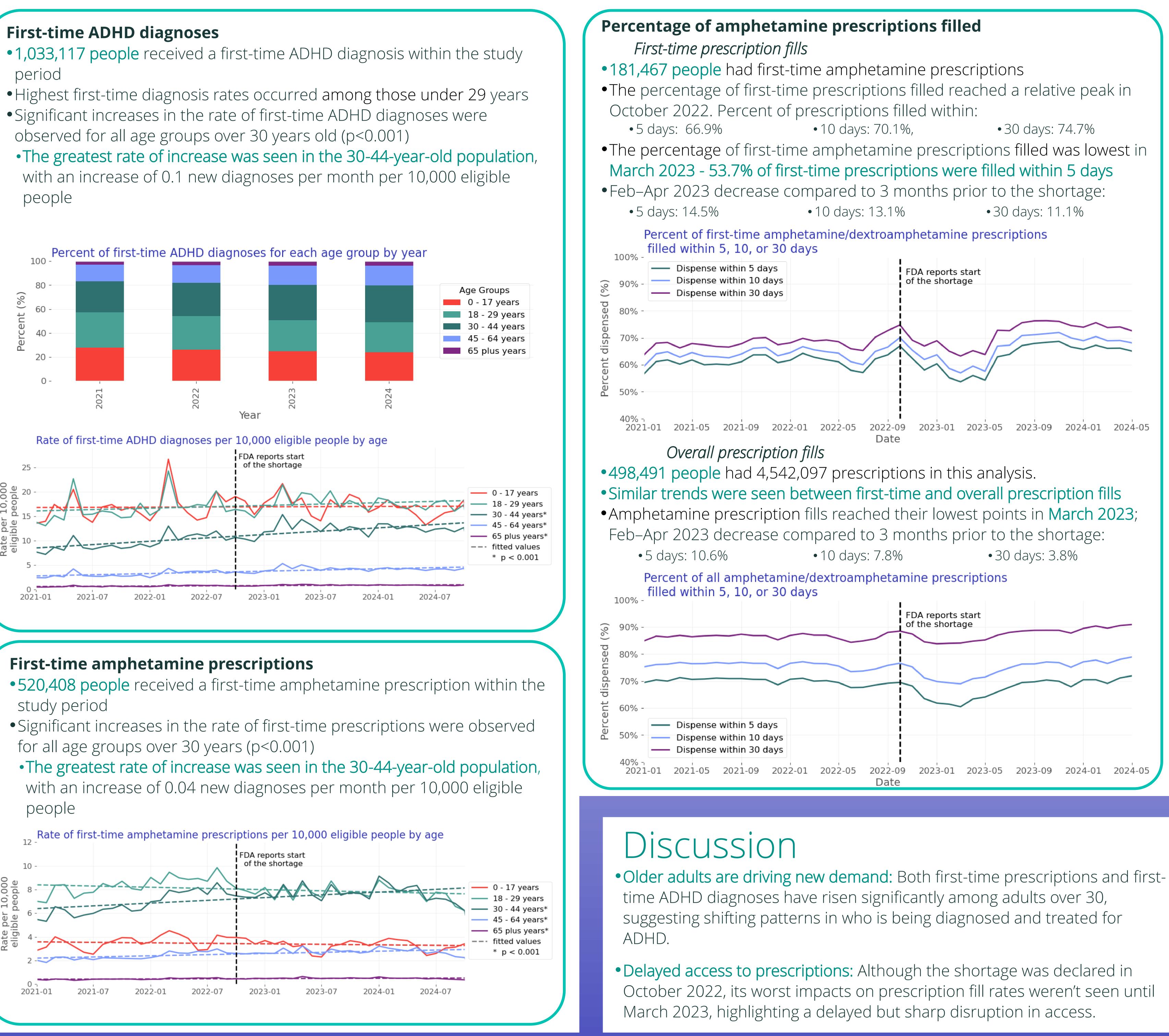
EHR Trends in First-Time ADHD Diagnoses and Amphetamine Prescriptions Across Age Groups (2021–2024)

Results

- period







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