

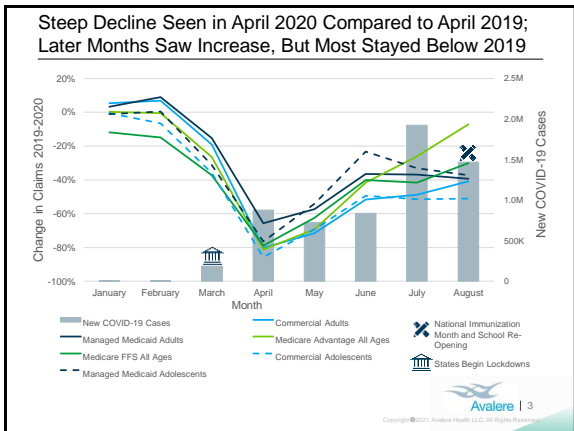
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The pandemic has led to a significant and sustained drop in immunization rates among adolescents and adults

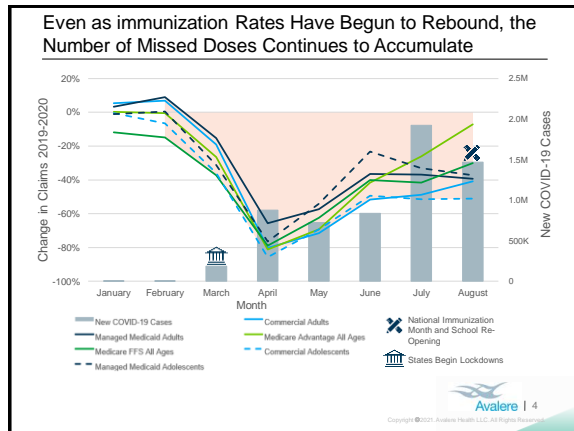
- Immunization claims declined 41-53% across markets from March-August 2019 to March-August 2020
- No direct correlation with COVID-19 cases; however, claims declined and stagnated across all markets following the PHE
- Rise in influenza vaccinations early in the season (up to August) may reflect multi-stakeholder messaging efforts

Funding for this research was provided by GlaxoSmithKline. Avalere Health retained full editorial control.

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About Us

Avalere is a vibrant community of innovative thinkers dedicated to solving the challenges of the healthcare system. We deliver a comprehensive perspective, compelling substance, and creative solutions to help you make better business decisions. As an Inovalon company, we price insights and strategies driven by robust data to achieve meaningful results. For more information, please contact info@avalere.com.

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Avalere Analyzed Changes in Administration of ACIP-Recommended Adult and Adolescent Vaccines

Data Sources

- Pre-adjudicated medical benefit Medicare fee-for-service (FFS) claims from a provider clearinghouse dataset maintained by Inovalon
- The Inovalon MORE2 Registry®, a large scale, real-world multi-payer dataset that contains claims across commercial markets (group, individual and Exchanges), Medicaid managed care, and Medicare Advantage (MA)
- Both data sources are nationally representative, but there are likely different geographies reflected in the analysis of each market; in addition, there may be cross-payer population shifts due to insurance coverage changes

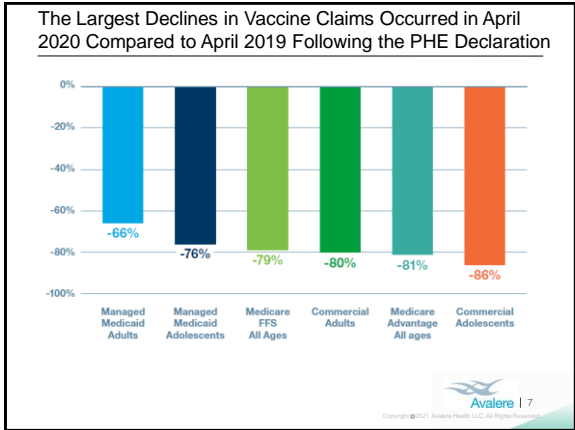
5-7%	25%	69%	42%
Medicare FFS	Medicare Advantage	Managed Medicaid	Commercial

Approach

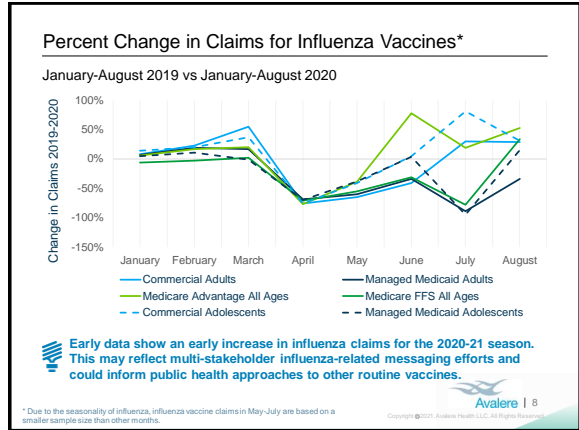
- Compared billing for vaccine products, defined by Healthcare Common Procedure Coding System (HCPCS) codes, from 2019 to 2020
- Adjusted the analysis to account for any changes in claim sources within the data to ensure that reported vaccine utilization changes are not driven by the addition or subtraction of claim sources over time

True vaccine coverage rates cannot be calculated with claims data due to lack of long-term longitudinal follow-up data over adulthood; this analysis estimates the impact of COVID-19 on the volume of submitted claims.

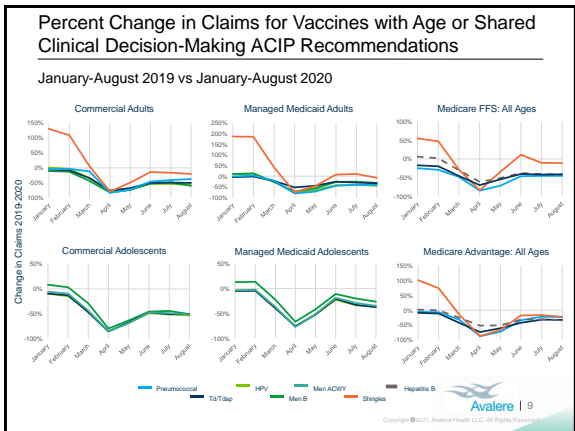
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