The Impact of COVID-19 on Cancer Screenings

Michael Diaz, MD Aug 12, 2021



Basis for Discussion

- JCO Clin Cancer Inform. 2020 Nov;4:1059-1071. doi: 10.1200/CCI.20.00134.
- Impact of COVID-19 on Cancer Care: How the Pandemic Is Delaying Cancer Diagnosis and Treatment for American Seniors
- Debra Patt ¹, Lucio Gordan ², Michael Diaz ², Ted Okon ³, Lance Grady ⁴, Merrill Harmison ⁴, Nathan Markward ⁴, Milena Sullivan ⁴, Jing Peng ⁴, Anan Zhou ⁴

Focused exerts on Cancer Screening

Focused Data/Result Updates since Initial Publication

Onset of COVID-19 Caused Significant Disruption in Delivery of Cancer Care

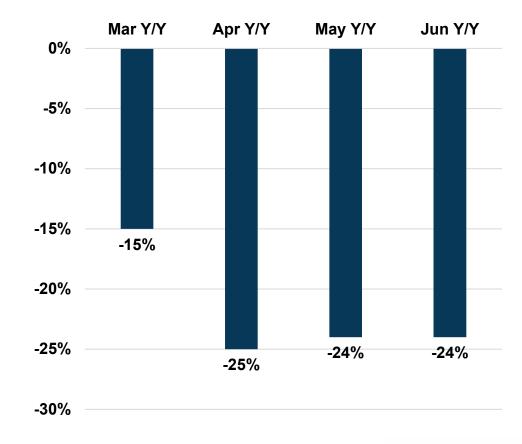
Relative Change in Billing Frequencies (April '19 vs April '20)





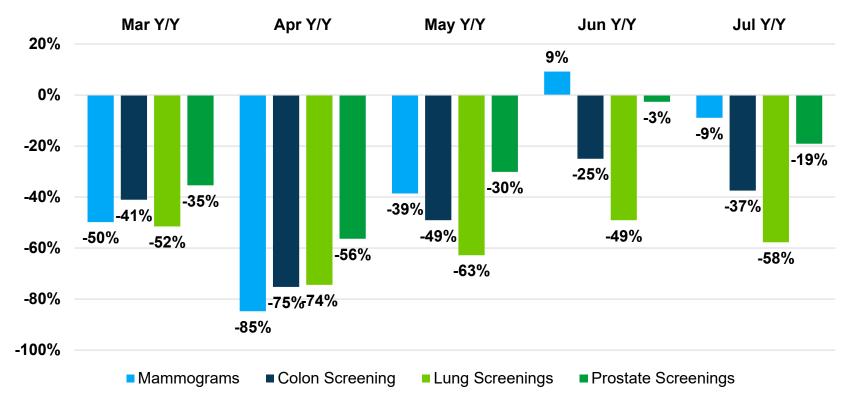
Relative Change in Billing Frequencies for the Top 23 Physician-Administered Oncology Products

(March-June 2019 vs. March-June 2020)



Limitations on Delivery of Care Due to COVID-19 Have Resulted in Significant Reductions in Cancer Screenings

Relative Change in Billing Frequencies for Select Cancer Screening Services (March-July 2019 vs. March-July 2020)





Reduced cancer screenings due to COVID-19 could have long-term impacts on patient outcomes, as delays in diagnosis and care delivery could negatively influence disease progression and overall survival

Source: Avalere Health and COA analysis of Inovalon Provider Clearinghouse data published online ahead of publication in the November issue of JCO Clinical Cancer Informatics

Note: Claims on average represent 5-7% of Medicare FFS nationally and include CMS-1450 claims from Institutional providers and CMS-1500 claims from Non-Institutional or Professional providers

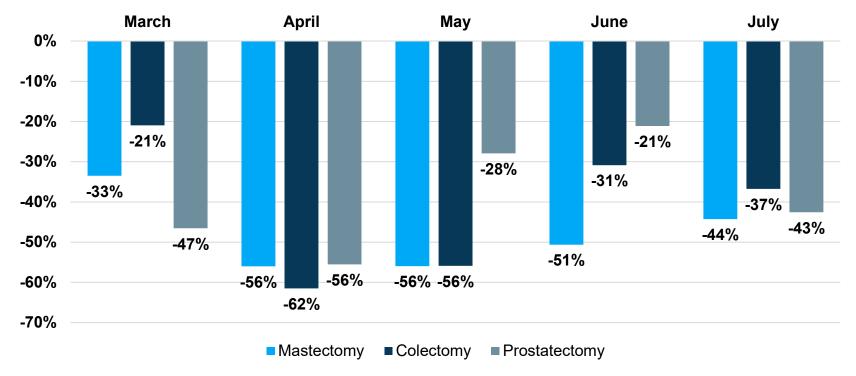


Avalere

Changes in Cancer-Related Surgeries Reflect the Impact of COVID-19 on Cancer Treatment Pathways

Relative Change in Billing Frequencies for Cancer-Related Surgeries

(March-July 2019 vs. March-July 2020)





Decreases in cancer-related surgeries during the COVID-19 pandemic reflect adapted treatment guidelines allowing surgeries to be delayed, however, decreases in later months may also reflect the downstream impact of delayed or missed screenings

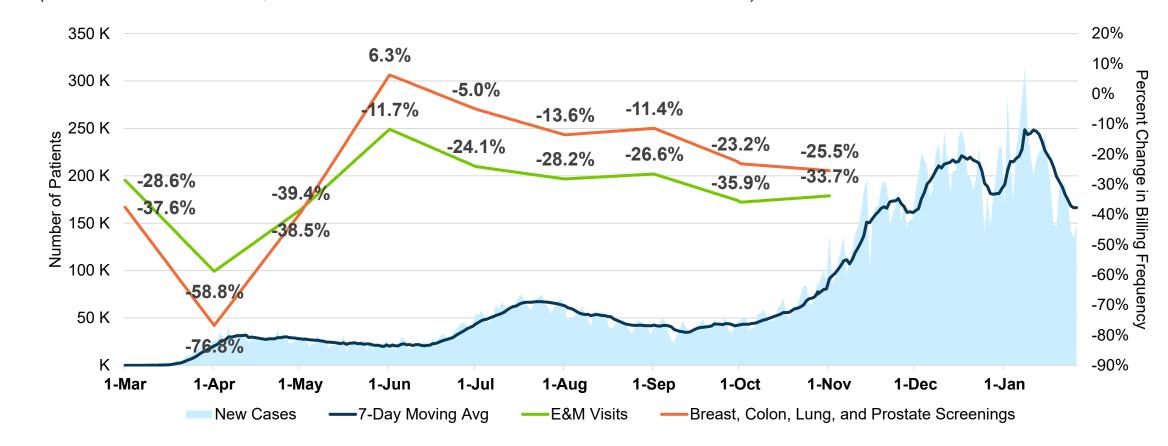
Source: Avalere Health and COA analysis of Inovalon Provider Clearinghouse data published <u>online</u> ahead of publication in the November issue of JCO Clinical Cancer Informatics

Avalere

Decreases in Cancer Screenings and E&M Visits Mirror First and Second Waves of New COVID-19 Cases

Daily Incidence and 7-Day Average of New COVID-19 Cases vs. Relative Change in Billing Frequencies for **Cancer-Related E/M and Screening Services**

(March-November 2020; March-November 2019 vs. March-November 2020)

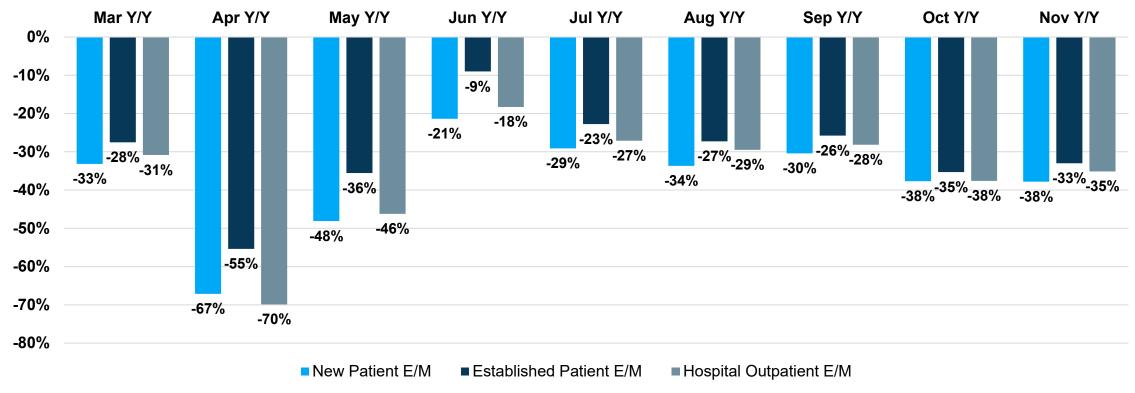


Source: CDC COVID Data Tracker, Accessed 1/28/2020 here. Avalere Health and COA analysis of Inovalon Provider Clearinghouse data published online ahead of publication in the November issue of JCO Clinical Cancer Informatics. Supported, in part, by Amgen, BMS, Daiichi-Sankyo, Eisai, Janssen, Genentech & Pfizer Note: Claims on average represent 5-7% of Medicare FFS nationally and include CMS-1450 claims from Institutional providers and CMS-1500 claims from Non-Institutional or Professional providers

Barriers to Care Caused by COVID-19 Complications Have Resulted in Significant Reductions in Patient Visits

Relative Change in Billing Frequencies for Cancer-Related E/M Services

(March-November 2019 vs. March-November 2020)



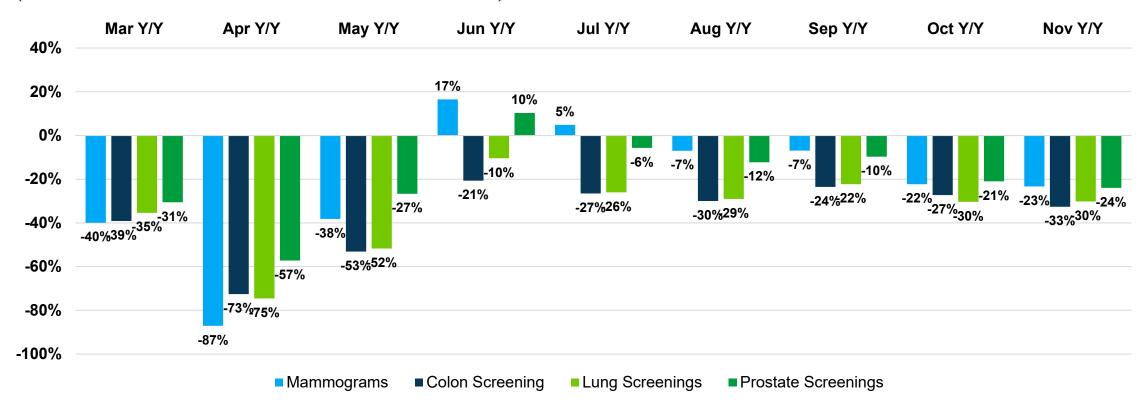


The relative change in utilization was higher for new patient E/M than established patient E/M, which could reflect patient reluctance to visit providers due to COVID-19 concerns, as well as lowered rates of screening

Limitations on Delivery of Care Due to COVID-19 Have Resulted in Significant Reductions in Cancer Screenings

Relative Change in Billing Frequencies for Select Cancer Screening Services

(March-November 2019 vs. March-November 2020)



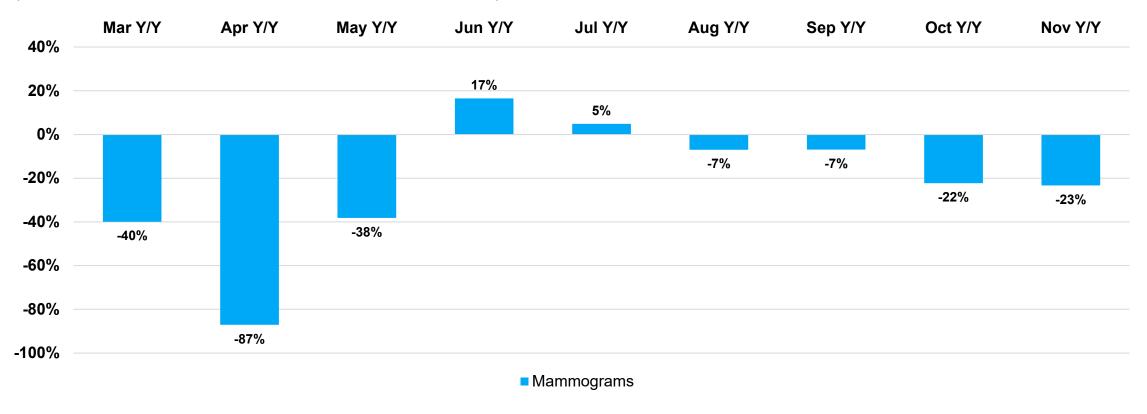


Reduced cancer screenings due to COVID-19 could have long-term impacts on patient outcomes, as delays in diagnosis and care delivery could negatively influence disease progression and overall survival

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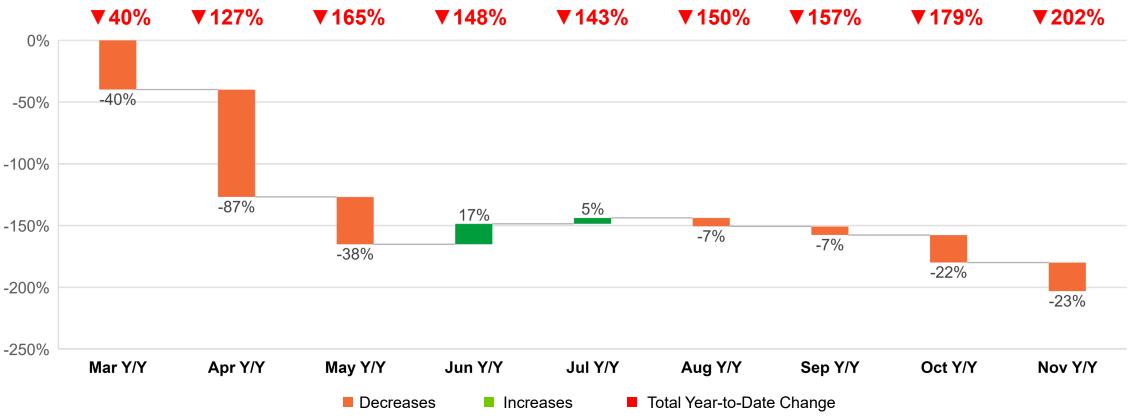


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Utilization of Screenings Would Need to Significantly Exceed Prior Year Standards in Order to Make Up for Total Losses in 2020 Due to COVID-19

Cumulative Gap in Billing Frequencies for Mammograms Relative to 2019

(March-November 2019 vs. March-November 2020)





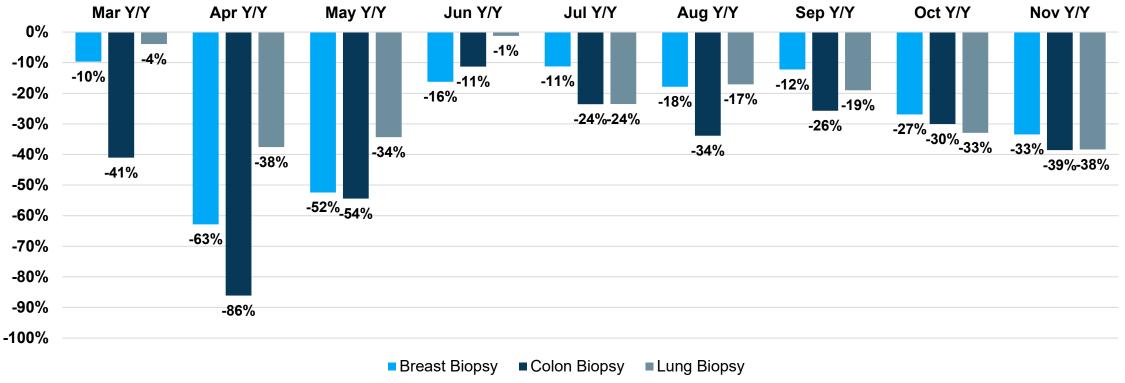
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In Addition to Challenges to Care Delivery Caused by COVID-19, Reduced Screenings May Have a Long-Term Impact on Subsequent Treatment Delivery

Relative Change in Billing Frequencies for Cancer-Related Biopsies

(March-November 2019 vs. March-November 2020)



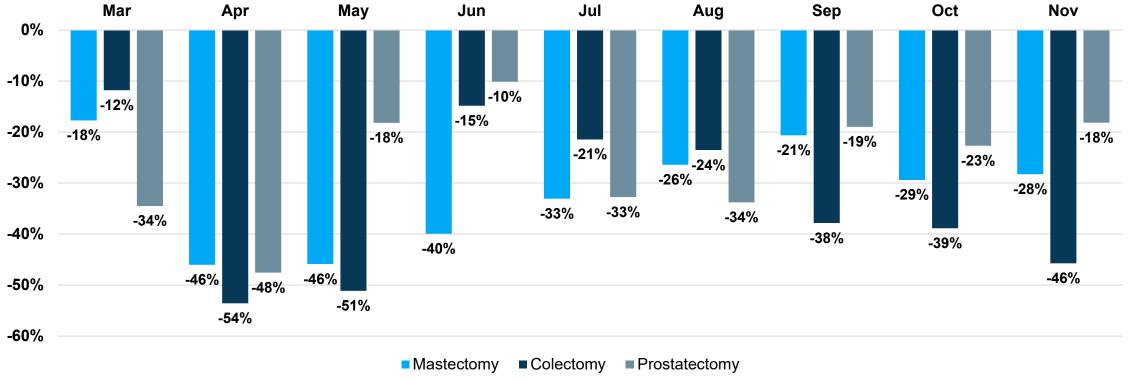


Reductions in screenings may reduce the number of biopsies conducted in subsequent months, delaying patient diagnosis until the next scheduled cancer screening or until disease becomes symptomatic

Changes in Cancer-Related Surgeries Reflect the Impact of COVID-19 on Cancer Treatment Decision-Making and Care Protocols

Relative Change in Billing Frequencies for Cancer-Related Surgeries

(March-November 2019 vs. March-November 2020)



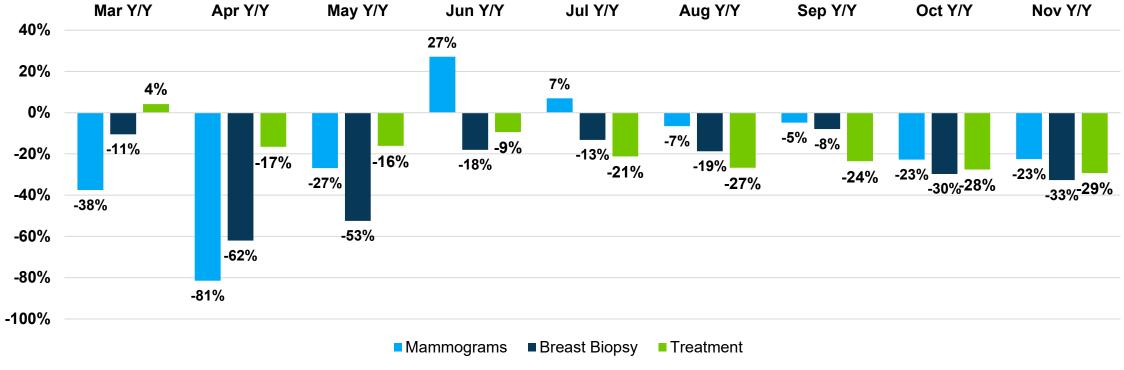


Decreases in cancer-related surgeries during the COVID-19 pandemic reflect adapted treatment guidelines allowing surgeries to be delayed, however, decreases in later months may also reflect the downstream impact of delayed or missed screenings



Breast Biopsies and Screenings Were Significantly Reduced in Spring, Which May Explain Decreases in Billing Frequencies for Treatment in Fall

Relative Change in Billing Frequencies for Breast Cancer Screening, Diagnostic, and Treatment Services (March-November 2019 vs. March-November 2020)

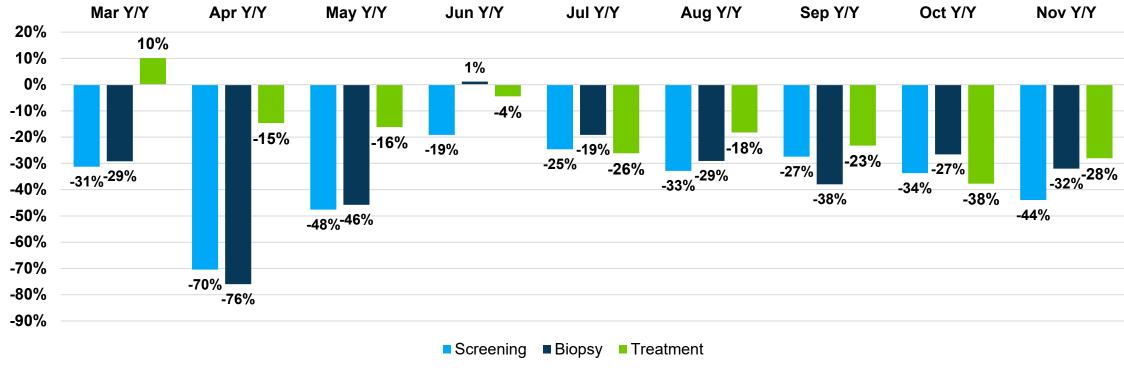




The lower number of breast biopsies and surgeries could be attributed to barriers to care introduced by COVID-19, as well as the lower prevalence of breast cancer screenings that were administered during previous months, the latter of which may have a lasting, downstream impact on outcomes

Colon Biopsies and Screenings Were Significantly Reduced in Spring, Which May Explain Decreases in Billing Frequencies for Treatment in Fall

Relative Change in Billing Frequencies for Colon Cancer Screening, Diagnostic, and Treatment Services (March-November 2019 vs. March-November 2020)

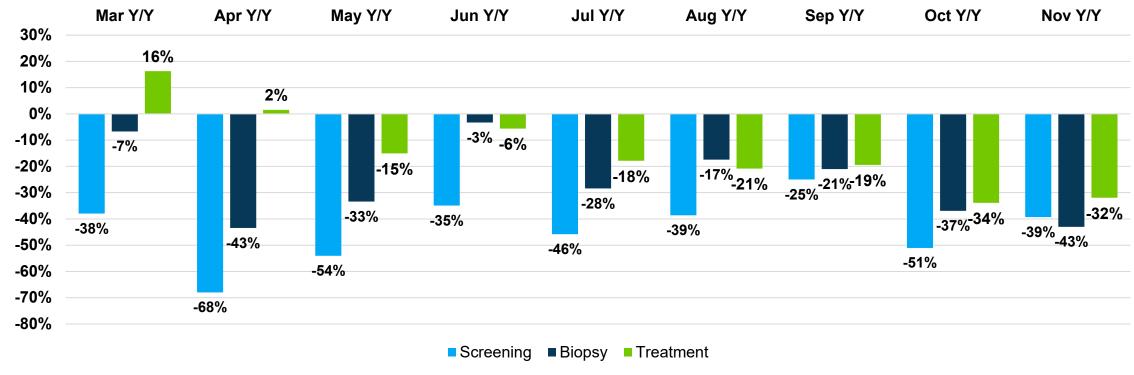




The lower number of colon biopsies and surgeries could be attributed to barriers to care introduced by COVID-19, as well as the lower prevalence of colon cancer screenings that were administered during previous months, the latter of which may have a lasting, downstream impact on outcomes

Lung Biopsies and Screenings Were Significantly Reduced In March Through November, Which May Explain Decreases in Billing Frequencies for Treatment

Relative Change in Billing Frequencies for Lung Cancer Screening, Diagnostic, and Treatment Services (March-November 2019 vs. March-November 2020)





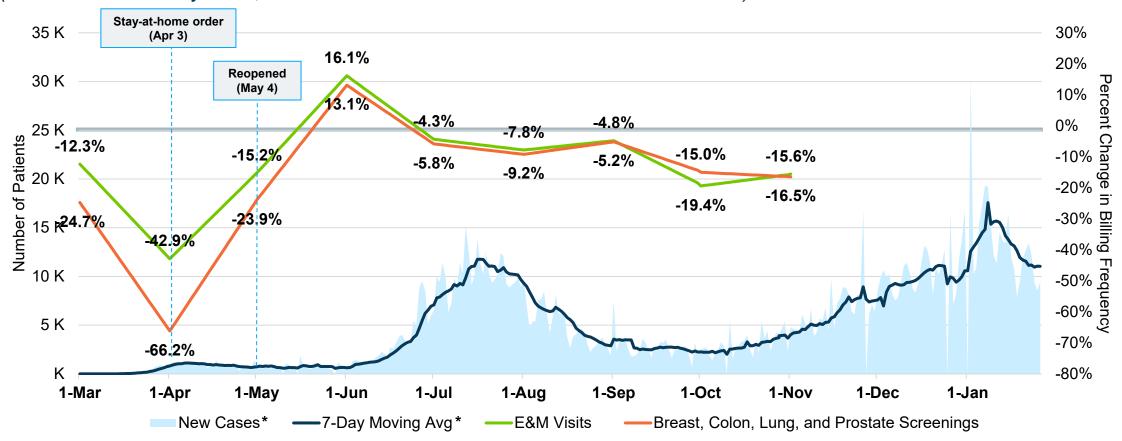
The lower number of lung biopsies and surgeries could be attributed to barriers to care introduced by COVID-19, as well as the lower prevalence of lung cancer screenings that were administered during previous months, the latter of which may have a lasting, downstream impact on outcomes

Florida

Florida Has Implemented Significantly Fewer Restrictions Related to COVID, Which May Explain Lower Declines in Billing Frequency

Daily Incidence and 7-Day Average of New COVID-19 Cases vs. Relative Change in Billing Frequencies for **Cancer-Related E/M and Screening Services**

(March 2020-January 2021; March-November 2019 vs. March-November 2020)



*Testing and Reporting patterns may vary by state, resulting in underestimation of case totals

Source: CDC COVID Data Tracker. Accessed 1/28/2020 here.

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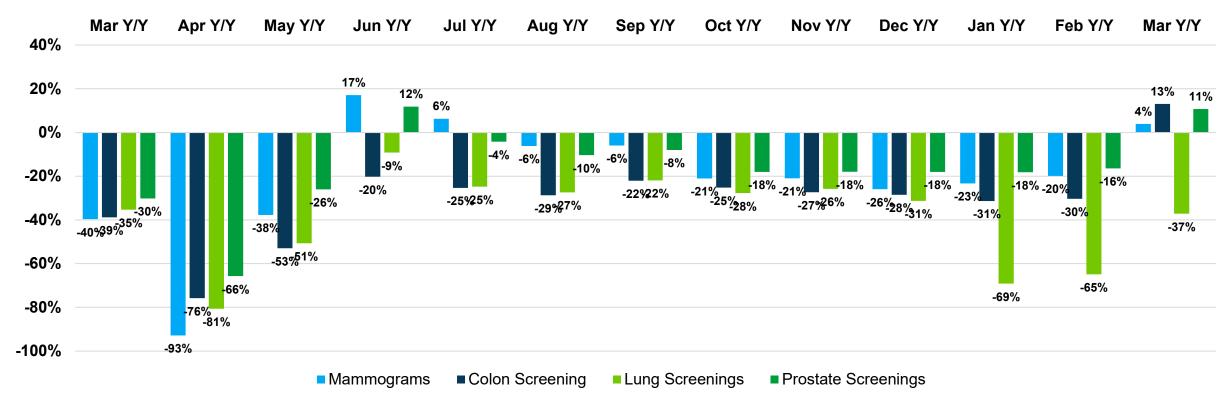
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Limitations on Delivery of Care Due to COVID-19 Have Resulted in Significant Reductions in Cancer Screenings But Have Been Improving

Relative Change in Billing Frequencies for Select Cancer Screening Services

(March-December 2019 vs. March-December 2020 and January-March 2020 vs. January-March 2021)



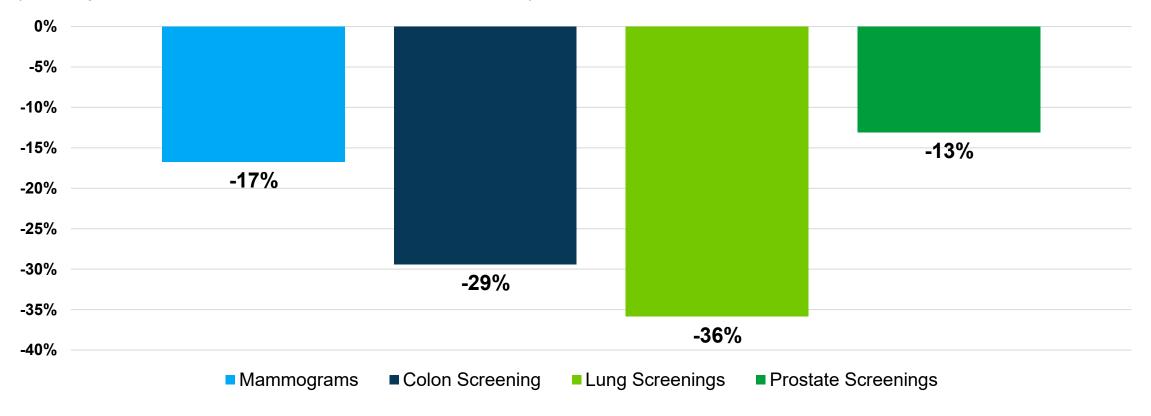


Reduced cancer screenings due to COVID-19 could have long-term impacts on patient outcomes, as delays in diagnosis and care delivery could negatively influence disease progression and overall survival

Cumulative Billing Frequencies for Screening Have Yet to Return to Pre-Pandemic Levels

Relative Change in Billing Frequencies for Select Cancer Screening Services

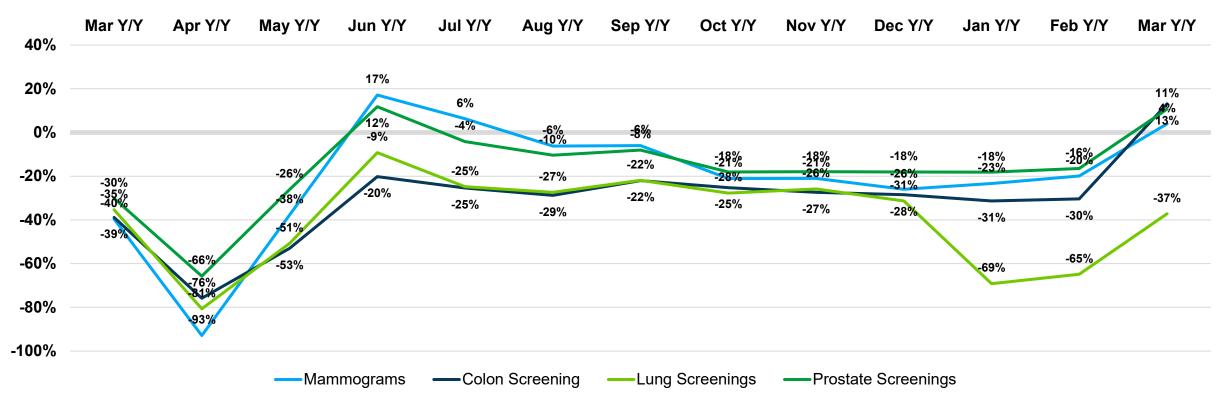
(January-December 2019 vs. March 2020-March 2021)



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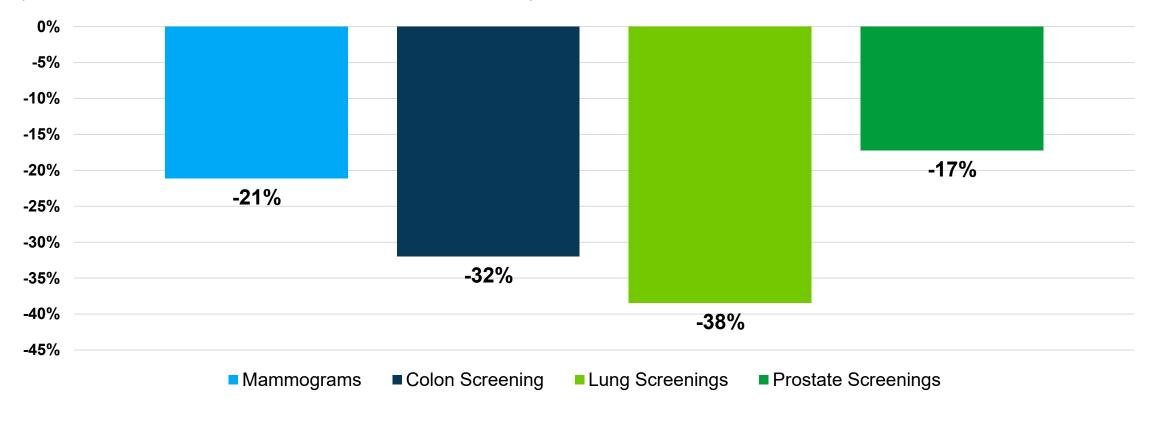


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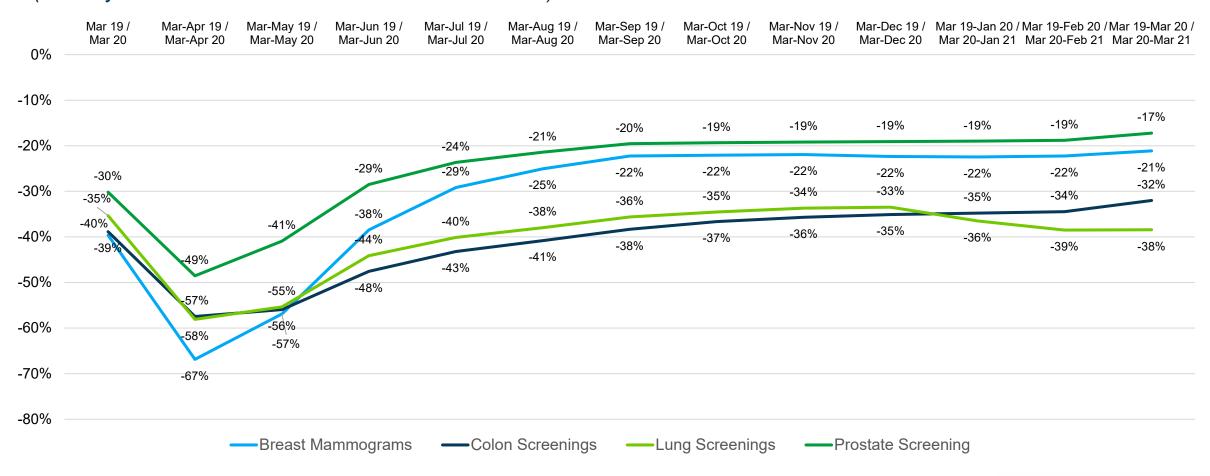
(March 2019-March 2020 vs. March 2020-March 2021)



Cumulative Billing Frequencies for Screening Show a Recovery From April 2020, But A Gap in Screening Remains

Relative Change in Billing Frequencies for Select Cancer Screening Services

(January-December 2019 vs. March 2020-March 2021)



Thanks!

A public awareness campaign from COA and Cancer *Care*.

It's time to encourage patients to get screened.

TIME TO SCREEN

Detecting Cancer Early May Save Your Life

Visit TimeToScreen.org

