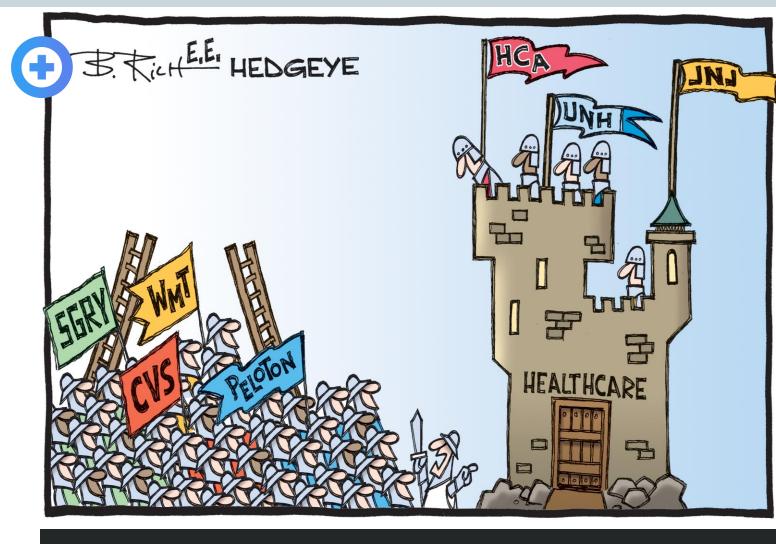
HEDGEYE

Post-COVID: Health Care Will Never Be The Same

Capital, Labor & Technology

December 9, 2020



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Legal



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Please submit questions* to

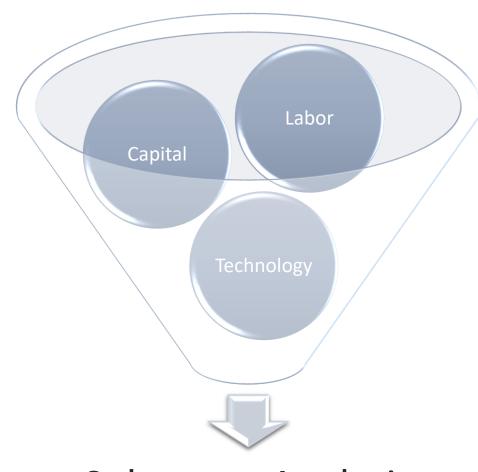
qa@hedgeye.com

^{*}Answered at the end of the call

Top of the Funnel: Macro Drivers of Change



- The infusion of capital into the health system is unprecedented = \$490 Billion in 6 months
- Labor demand especially for nurses originates from a greater variety of sites than ever before, straining the system
- Technology to improve productivity and make the system more efficient is still in its infancy
- Deregulation will put more demands on innovation and productivity



Subsector Analysis

Capital



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Federal Capital Infusion = \$490 Billion

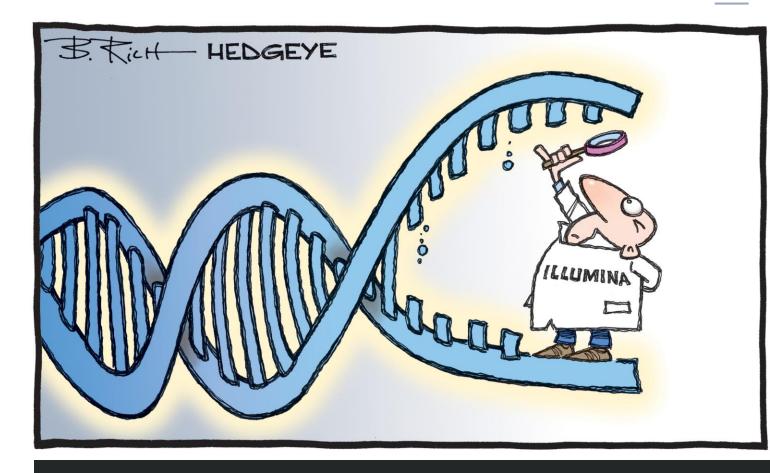


(\$150B) Testing, Diagnostics & Vaccines
Treestries of reference
(\$100B) Medicare Accelerated & Advance Payments
Described Delief English
(\$143B) Provider Relief Funds
(\$50B) Enhanced FMAP
450B) LITTATICEU I IVIAF
(\$8B) Suspension of Sequestration
- Jaspensien er segaestration
(\$4B) Other
(\$1.5B) 20% Medicare Add-on Payment

Data Source: Hedgeye Estimates © Hedgeye Risk Management LLC.



Testing, Diagnostics & Vaccines



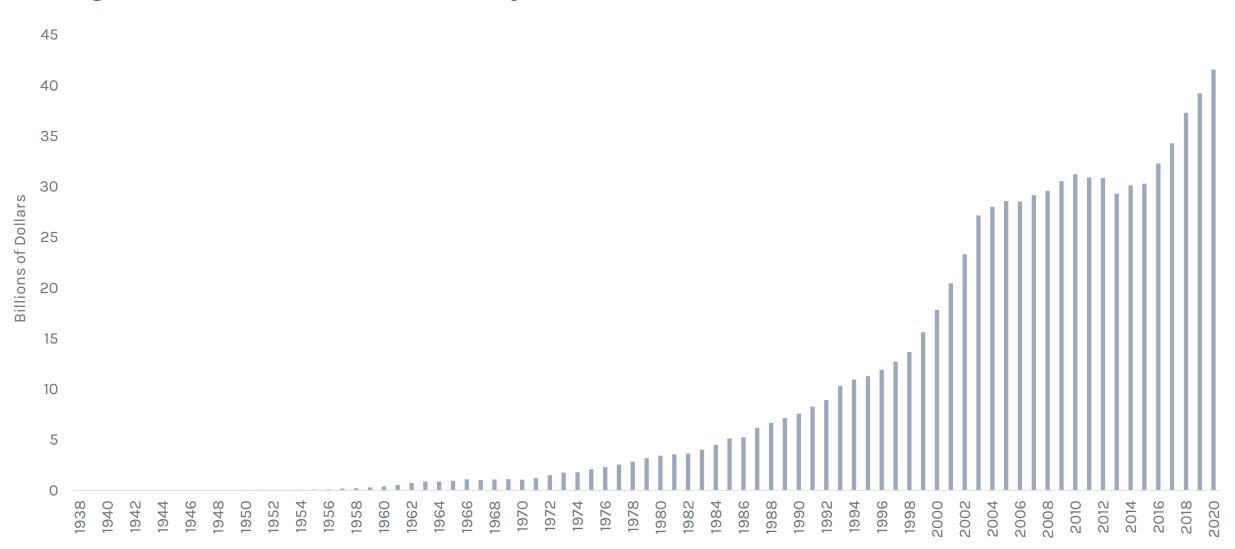
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The NIH "Wall of Money"

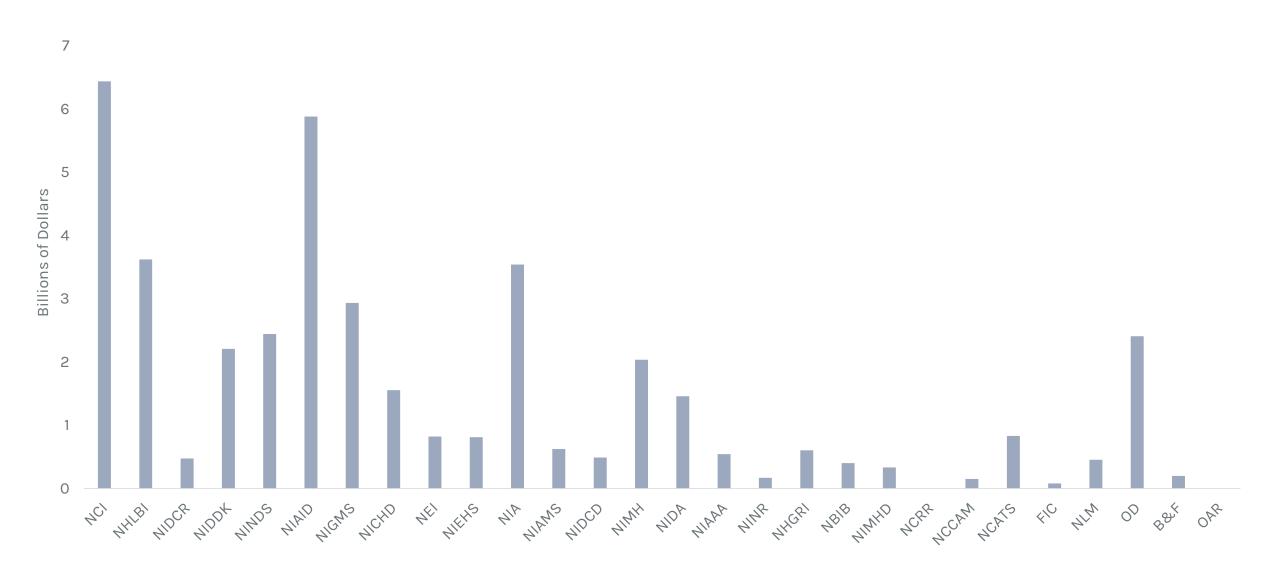


Funding has re-accelerated after 21st Century Cures Act and COVID



FY2020 NIH Funding by Institute

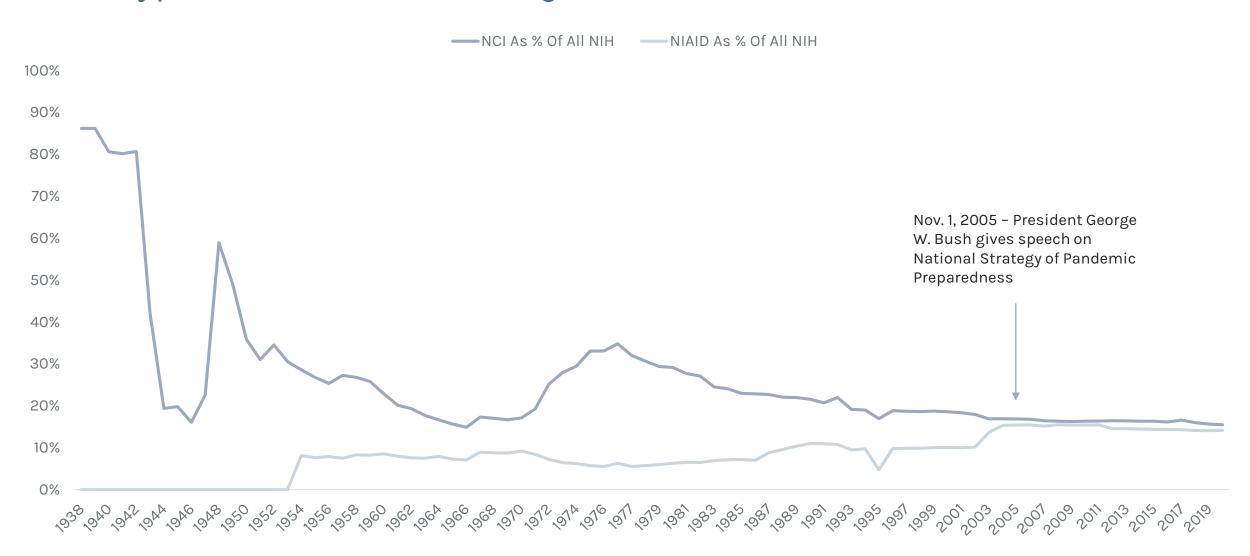




NIAID Funding Now Nearly Equal to NCI

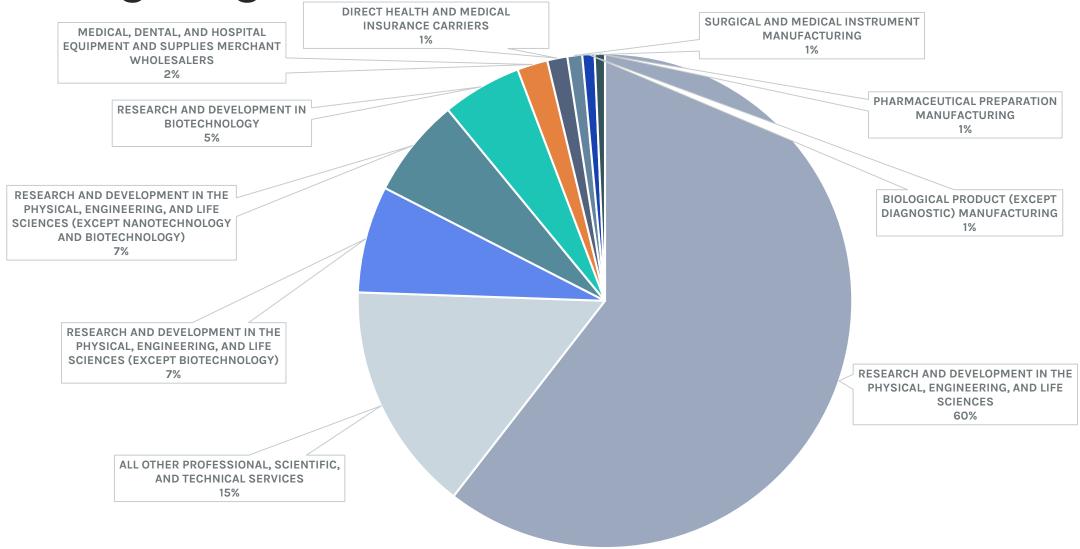


Boosted by priorities of Bush and to lesser degree, Obama



Testing, Diagnostics & Vaccines = \$150B to \$243B



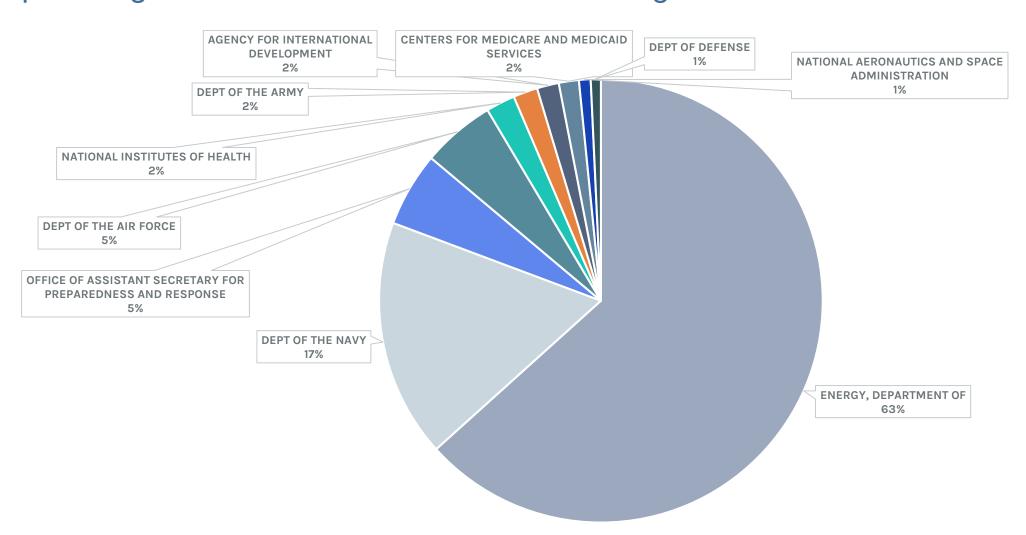


Data Source: USASpending.gov © Hedgeye Risk Management LLC.

Top COVID Funding Agencies – All Health-related NAICs



Representing \$145 billion of \$150 billion committed through Nov. 18th



Contracts for Much More Than Masks & Gloves



"FIRM, FIXED-PRICE DELIVERY ORDER FOR A BASE PLUS FOUR (4) OPTION YEAR CONTRACT FOR RUBY CELL-DYN LAB ANALYZER RENTAL AND CPRR FOR FORT YATES IHS SERVICE UNIT, FORT YATES, ND

"IGF::OT::IGF PRECLINICAL DEVELOPMENT OF SEMISYNTHETIC SAPONIN IMMUNOLOGICAL ADJUVANT TITERQUIL-1055 IN THE CONTEXT OF AN INFLUENZA VACCINE. NEW AWARD"

DEVELOPMENT OF ANIMAL MODELS FOR EVALUATION OF MEDICAL COUNTERMEASURES FOR SARS-COV-2

"OTA TO ESTABLISH THE FOUNDRY FOR

AMERICAN BIOTECHNOLOGY (NEXTFAB) AIMS TO

ACCELERATE THE RESEARCH, DEVELOPMENT,

MANUFADEPLOYMENT, OPERATIONS, AND

AVAILABILITY OF: REVOLUTIONARY ADVANCES IN

SCIENCE,"

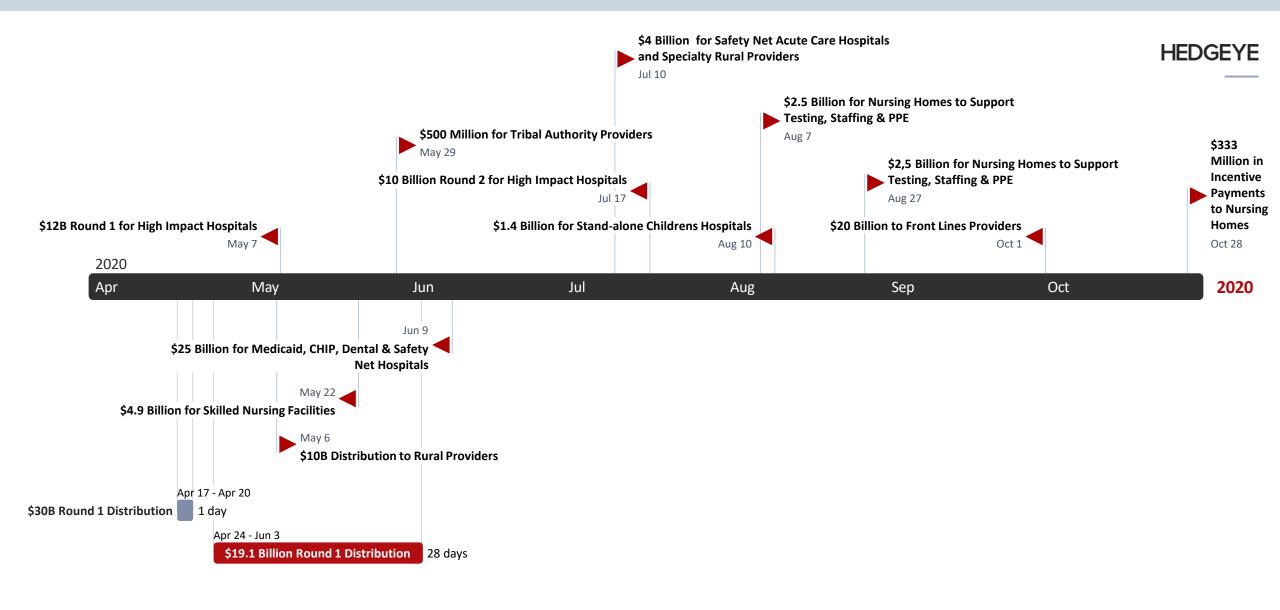
IMMUNOGENICITY AND EFFICACY TESTING OF MEDICAL COUNTERMEASURES (VACCINES AND OTHER BIOLOGICS) AGAINST EMERGING INFECTIOUS DISEASES INCLUDING COVID-19 (SARS-C0V2)

Relief/Stimulus Funds



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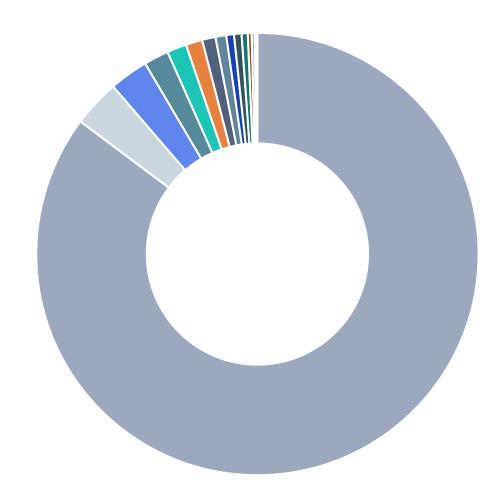
Data Source: CMS, Hedgeye © Hedgeye Risk Management LLC.

Medicare Advance Payments = \$100B

HEDGEYE

Treat as obligation for now; Congress can forgive and may at year end

- Beginning at one year from the date the accelerated or advance payment was issued and continuing for 11 months, Medicare payments owed to providers and suppliers will be recouped at a rate of 25%
- After 11 months end, Medicare payments to providers and suppliers will be recouped at a rate of 50% for another six months
- After the six months end, a letter for the remaining balance will be issued. Providers and suppliers will have 30 days from the date of the letter to repay the balance in full. If payment is not received within 30 days, interest will accrue at the rate of 4% and will be assessed for each 30-day period the balance remains unpaid.



- Hospitals: Short Stay
- Skilled Nursing Facilities
- Hospitals: Critical Access
- Home Health
- End Stage Renal Disease
- Hospice
- Hospitals: Rehabilitation Units
- Hospitals: Long Term Care
- Hospitals; Rehabilitation
- Hospitals: Swing Bed Units
- Hospitals: Psychiatric Unit
- Hospitals; Psychiatric
- Rural Health Clinic
- Outpatient Physical Therapy
- Hospitals: Childrens
- Hospitals; other
- Federally Qualified Health Centers
- CORF
- Community Mental Health Centers

Provider Relief Fund a.k.a "Cares Act" Money



Total about \$143 billion but authorized to \$175 billion; treat as "grant" or "other" income

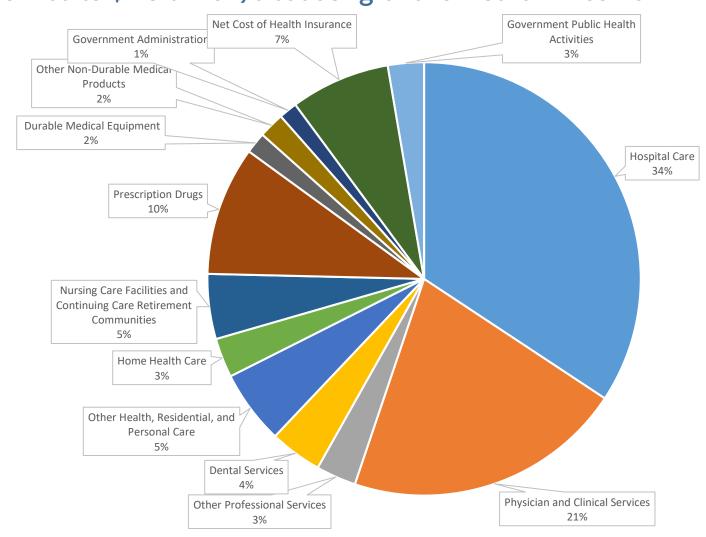
CARES money is to be used for the testing, diagnosis and treatment of actual or potential COVID patients with CMS saying they are broadly applying that criteria.

In Sept. 19 guidance, HHS placed a limit on use to PRF. Providers receiving funds were to use it only to the extent it would not make them any more profitable in 2020 than they were in 2019.

The limitation was reversed a month later. Oct. 22, after pressure from industry and Members of Congress.

In response to the September guidance, THC was forced to reverse \$70 million in CARES Act grant money. In 4Q, however, based on October's memo, they should be able to reverse the reversal.

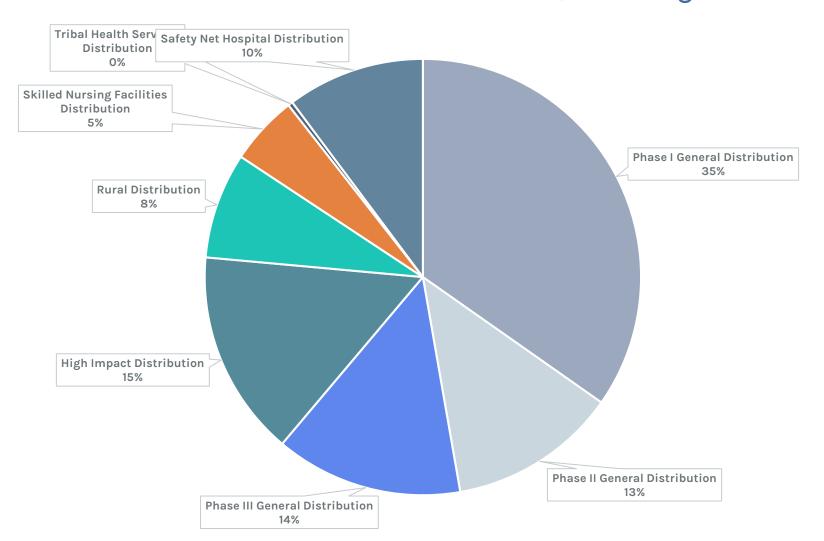
Based on 3Q 2020 earnings calls most companies have reported PRF as "grant income" or "other income."



Provider Relief Fund a.k.a "Cares Act" Money



Total about \$143 billion but authorized to \$175 billion; treat as "grant" or "other" income



- The CARES Act authorized \$175 billion in relief money to hospitals and other providers. Of that amount HHS reports approximately \$143 billion in payments. Distribution of these funds was broken down into phases and between general and targeted distribution
- Reported as "grant" or "other" income and does not need to be repaid
- HCA and DGX among others have voluntarily returned CARES Act money

Federal Capital Infusion = \$490 Billion



Data Source: Hedgeye Estimates © Hedgeye Risk Management LLC.

Labor



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Labor Response to Capital Infusion

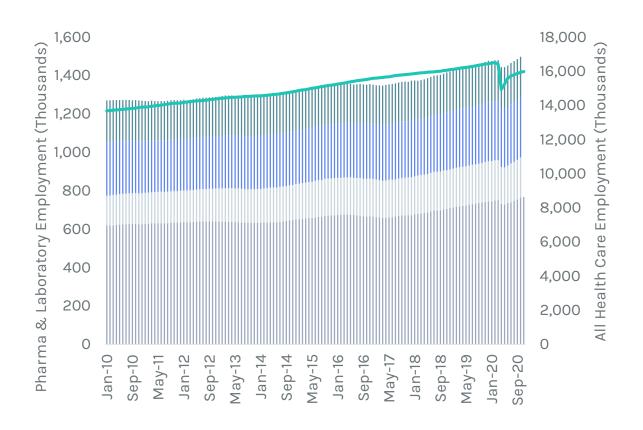


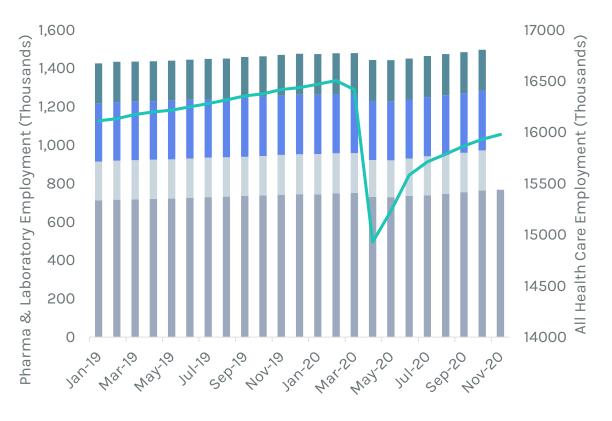
R&D, Pharma Manufacturing & Laboratories all outperforming rest of health care

- Manufacturing of Pharmaceutical Preparations
- Manufacturing of Pharmaceuticals & Medicines
- Medical Laboratories
- Research & Development Services
- -All Health Care



—All Health Care

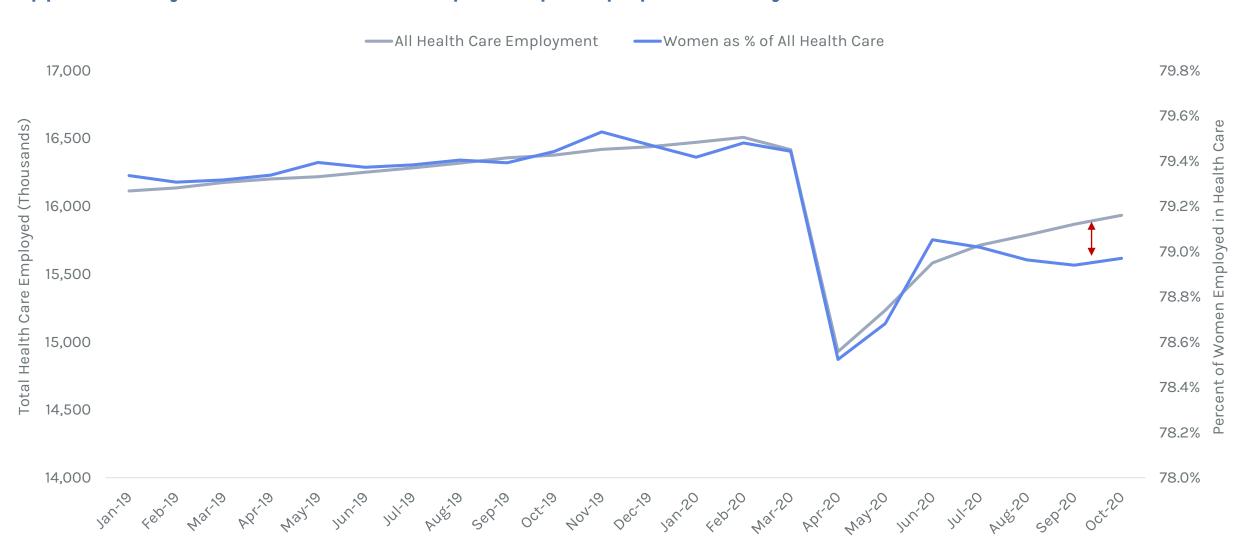




Women in Health Care Workforce Are Slow to Return



Approximately 84,000 women have departed, perhaps permanently



School Closures Limiting Flexibility of Workforce



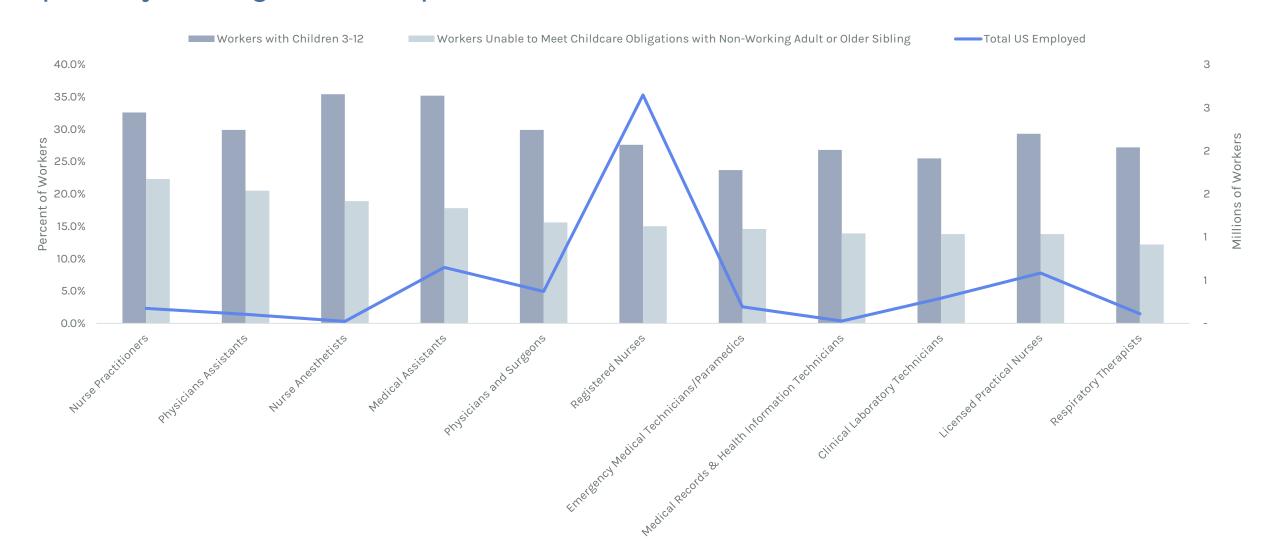
Burnout, high risk profile also contributing



Less Skilled, Lower Wage Workers Most Impacted

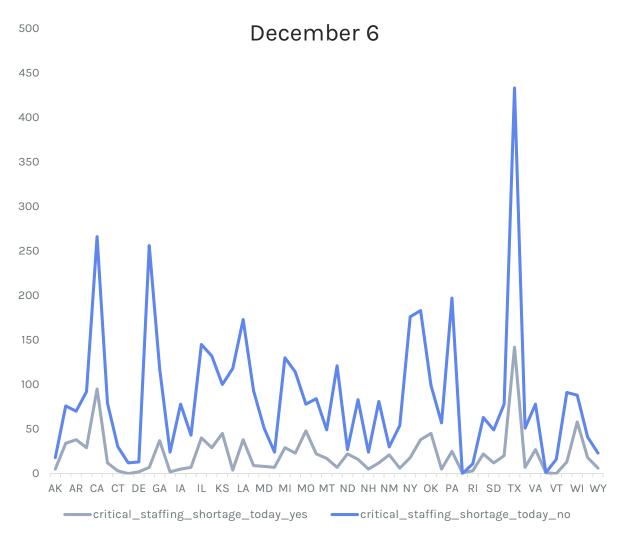


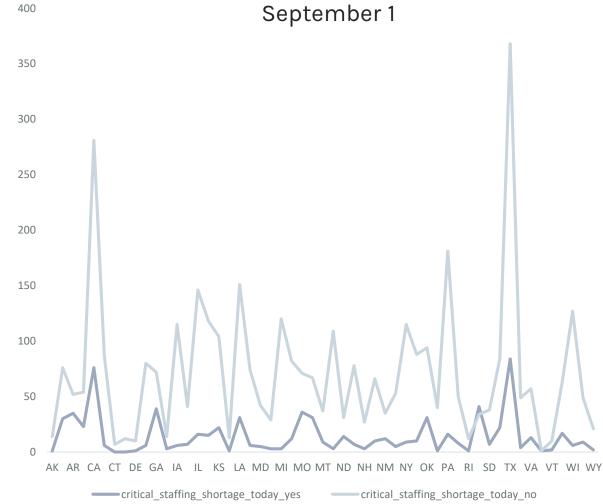
April Study but things have not improved much



Hospitals Reporting Critical Staffing Shortages







Nurse Demand is E-V-E-R-Y-W-H-E-R-E



From CROs to Pharmacies and everything in between



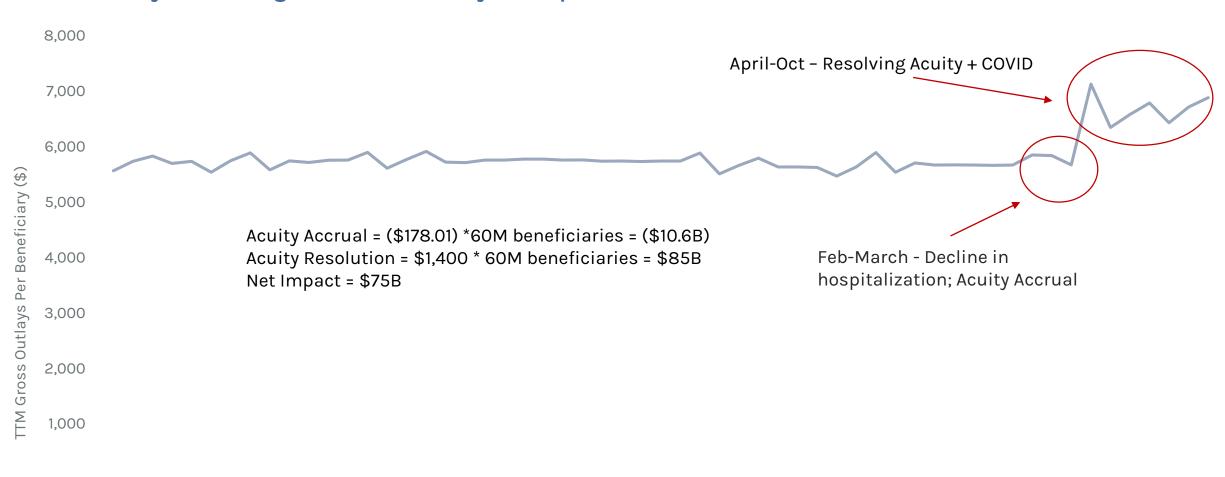
Join our Covid-19 Vaccine Support Team				Apply Now		
Search by job title, category, location, or Military MOS code						
Try "Data Engineer" or MOS code	Enter Location	20 Miles	~	Search	Search Map	



TTM Gross Treasury Outlays Per Medicare Beneficiary



Part A: Acuity Still Being Addressed; Delays in Inpatient Care + COVID = 25%

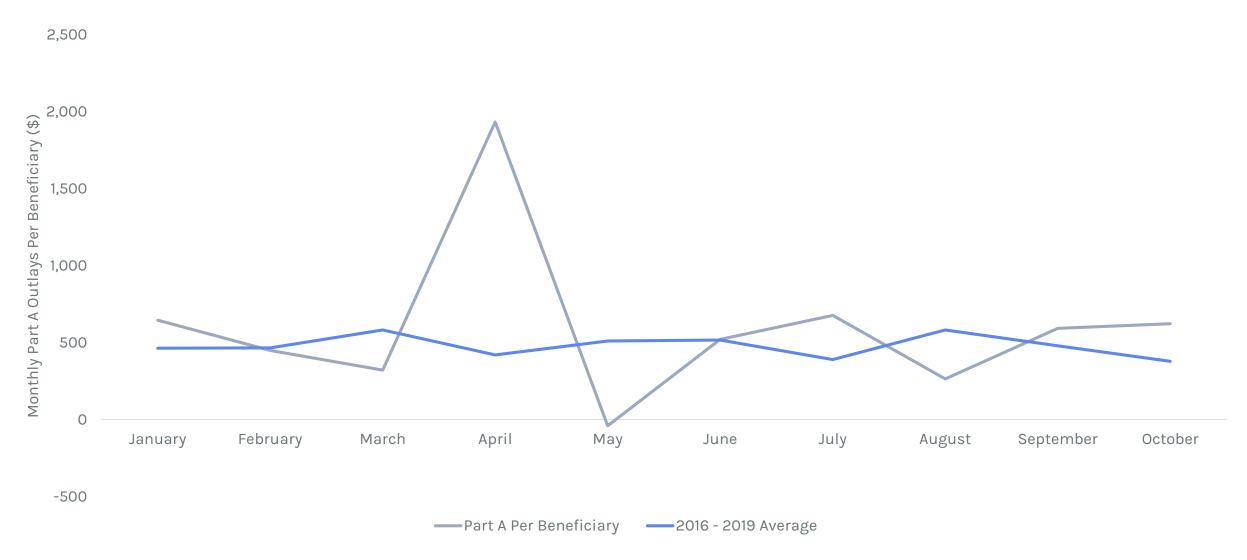


Data Source: Department of the Treasury

Monthly Gross Treasury Outlays Per Medicare Beneficiary



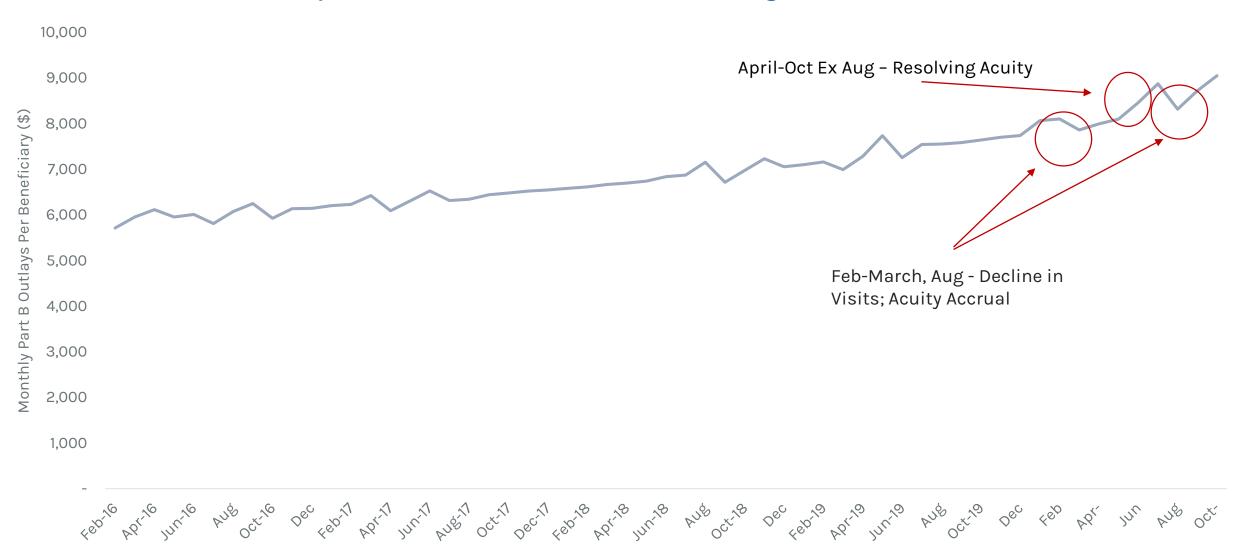
Part A: CY2020 v Monthly Average 2016-2019 - Destroying seasonal trends and a few actuarial models



TTM Gross Treasury Outlays Per Medicare Beneficiary



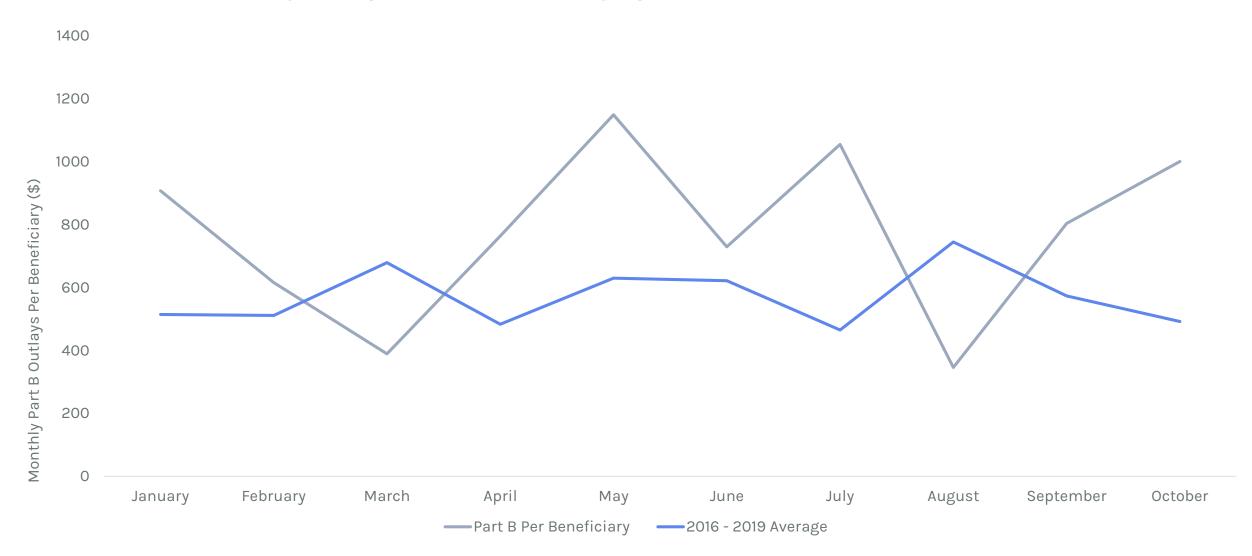
Part B: More stable than inpatient – Influence of alternative settings and telehealth



Monthly Gross Treasury Outlays Per Medicare Beneficiary



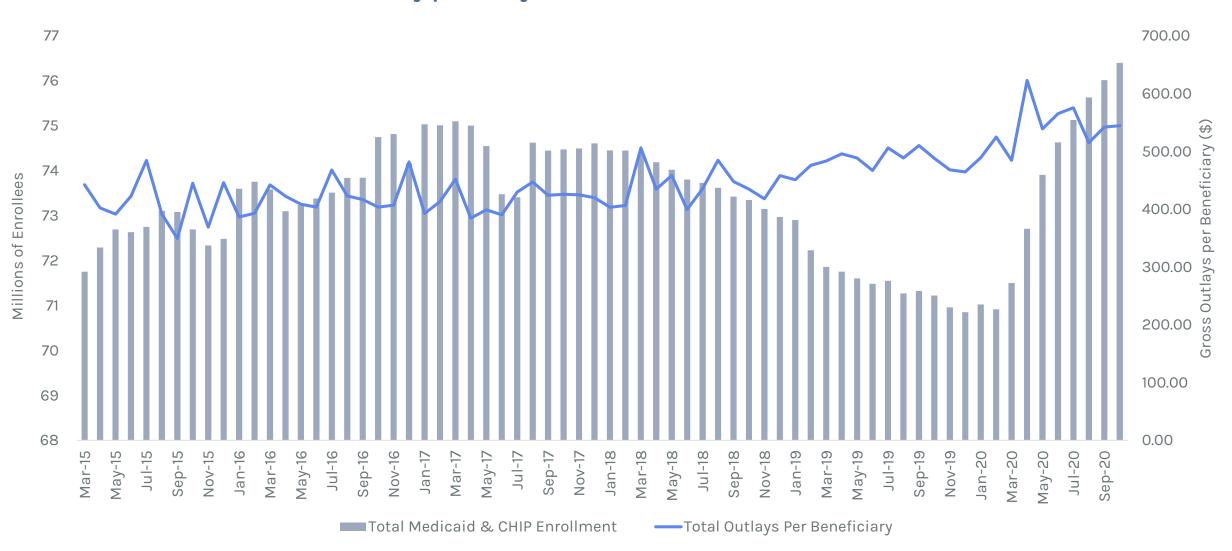
Part B: CY2020 v Monthly Average 2016-2019 - Destroying seasonal trends and a few actuarial models



Gross Treasury Outlays - Medicaid Grants to States



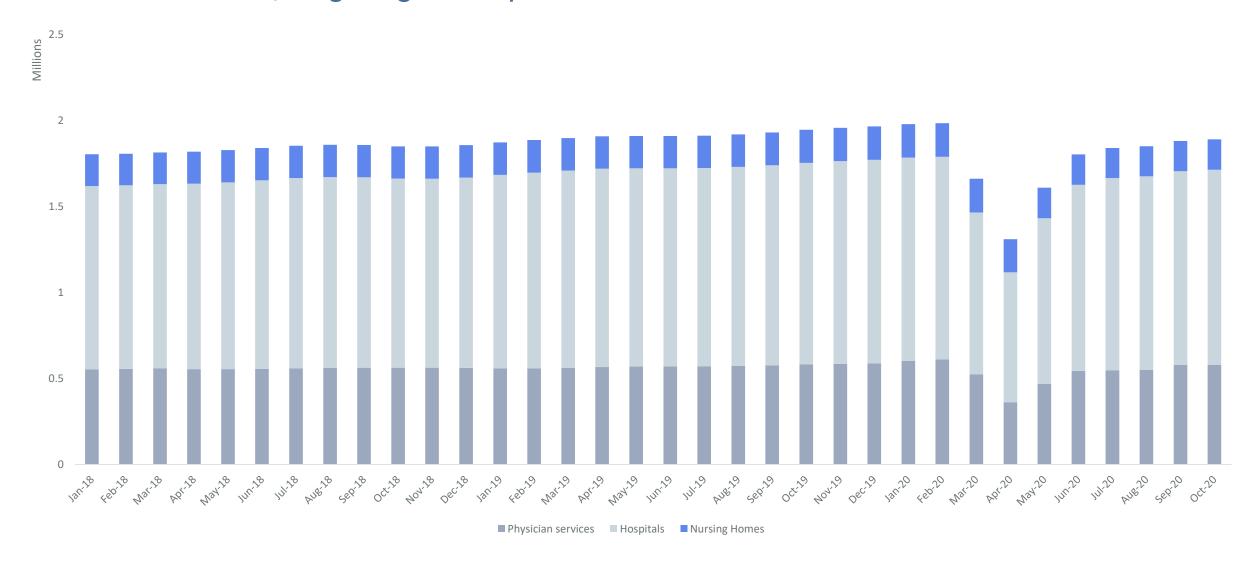
Does not include state match; acuity probably in check as half are children



Other Health Programs



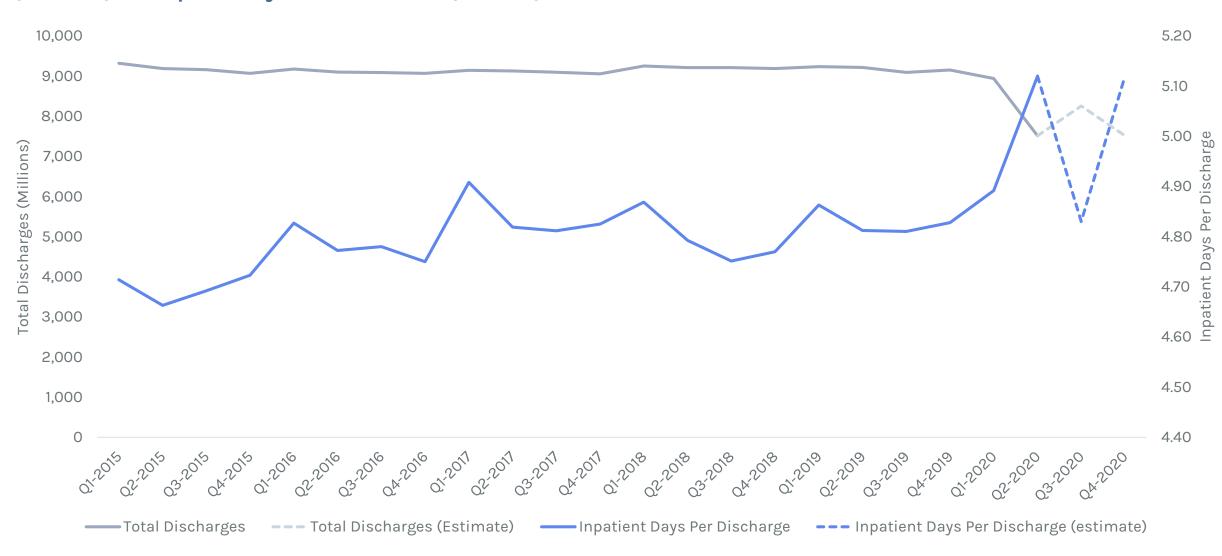
Similar Result with 3Q not getting back to pre-crisis levels; Price not Volume



All Inpatient Care



Q3 and Q4 will probably look a lot like Q1 and Q2



The Elusive Productivity of Health Care



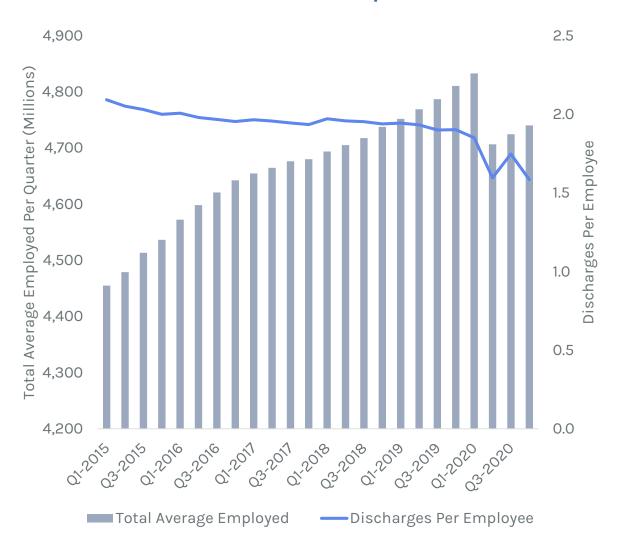
Ten months into COVID and hospitals are still inefficient - Inpatient Days

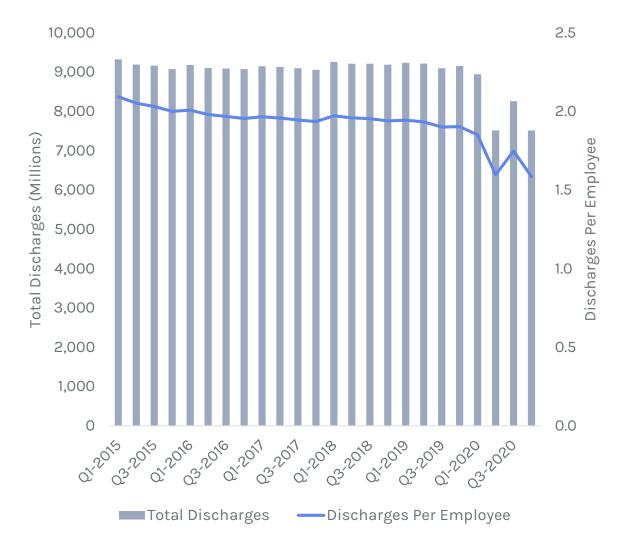


The Elusive Productivity of Health Care



Ten months into COVID and hospitals are still inefficient – Discharges







"What is more important about regulation is understanding what doesn't happen because of it." ~ FedEx CEO Fred Smith

Data Source: Hedgeye

Major Deregulatory Moves of 2019/20



Changes to Supervision

Move from Direct Supervision to General Supervision

- Non-surgical Extended Duration Therapy Services (permanent)
- Pharmacists can provide care incident to physicians' services

Direct Supervision via Telecommunication Services

- Pulmonary, Cardiac, Intensive Cardiac Rehabilitation (permanent)
- Services provided by auxiliary personnel (12/31/2021)
- Supervision of residents through (TBD)

Site of Care Restrictions

End of Inpatient Only List

- Let physicians decide between Inpatient and HOPD
- 3-year phase-in

Significant modification to Covered Procedures List

- Eliminate criteria
- Adds 270 new procedures to CPL in 2021

Price Transparency

- Shoppable Services Final
- Negotiated Rates between carriers (proposed)

Advanced Technology

Breakthrough Technology

- New MCIT Coverage Pathway for National Medicare Coverage of FDA "Breakthrough" Devices
- Provided reimbursement assurance in place of "valley of death."
 - Genetic Tests
 - Al

Technology Pass-through Payments

First Al approved this year

Device Intensive Procedures

 Changed threshold from 40% to 30%

Rural Health

Memorandum of Understanding b/w USDA, HHS and FCC

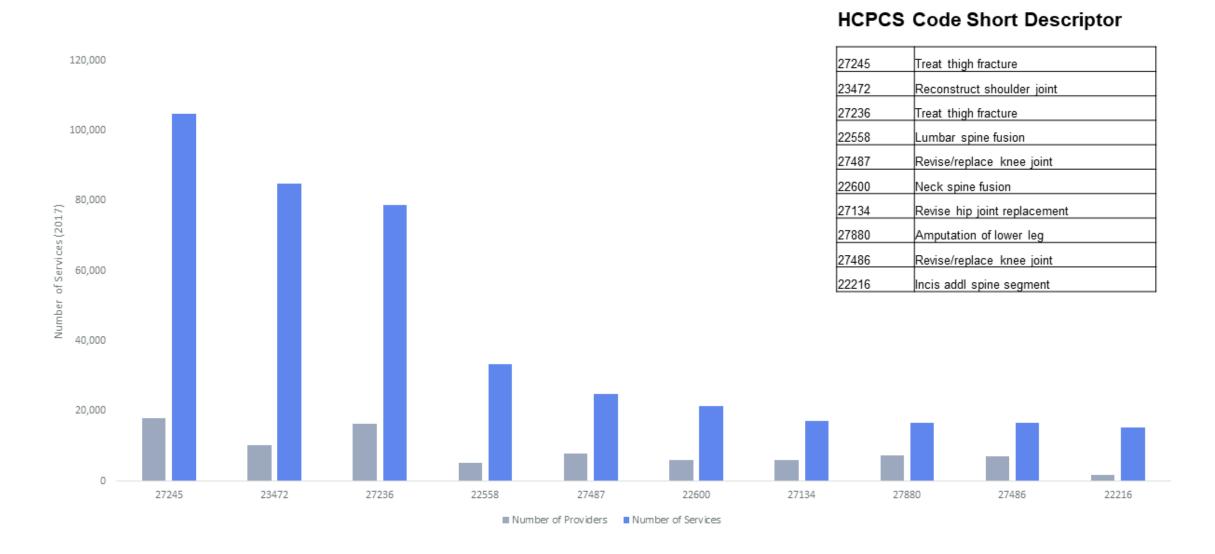
 Intended to create better coordination in improving access

Reforms to FCC Rural Health Program

- Grant money from CARES Act
- Pivot orientation toward more rural providers

Top Ten Musculoskeletal Procedures on IPO List

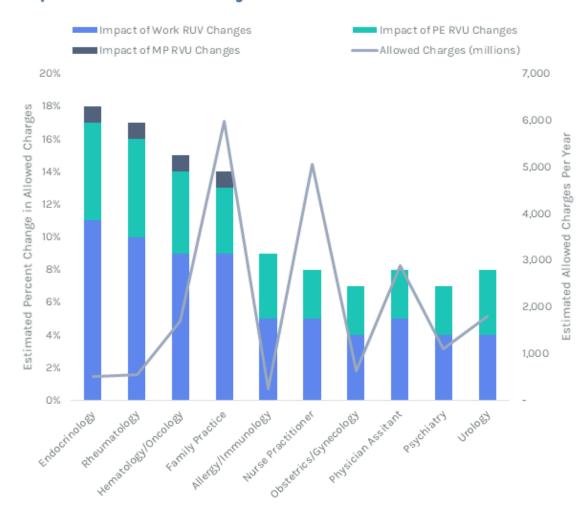




Primary Care E/M Codes | Budget Neutrality Adjustment



Top Ten Medicare Payment Increases



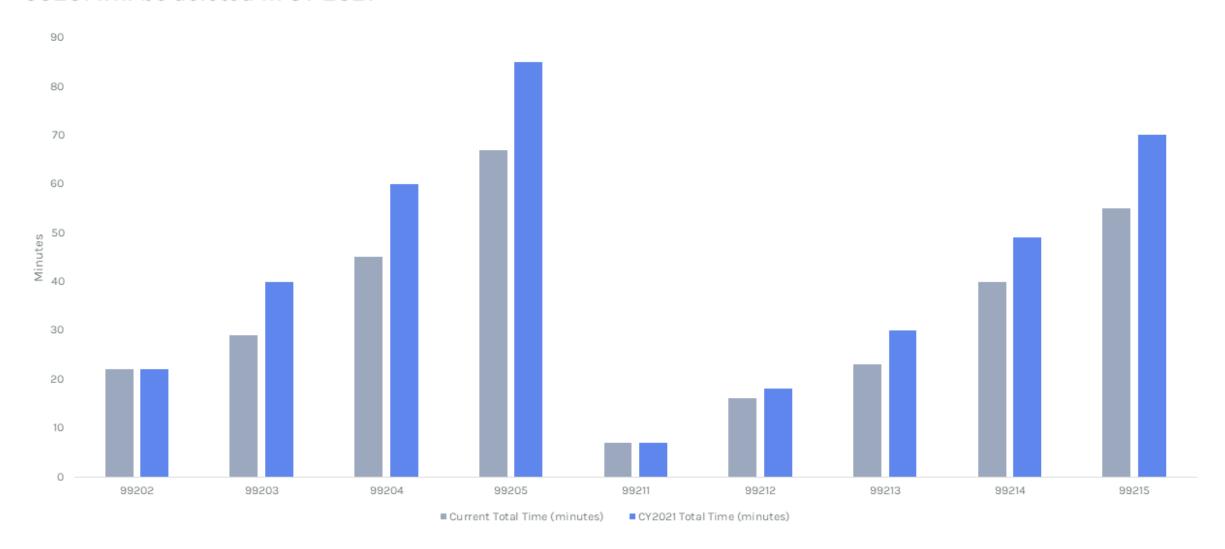
Top Ten Medicare Payment Decreases



Time Used | Evaluation & Management Codes



99201 will be deleted in CY 2021



Technology



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Health Care Technology Trends | Emerging to Developed



Emerging

Voice Technology

- Voice technology was being explored at the edges of HCIT until COVID
- Most fully developed technologies related to Nurse Call solutions
- Emergency Use
 Authorization approved
 by FDA during Public
 Health Emergency
- Outbreak containment strategy that also addresses labor issues

Gaining Traction

Rural Complex/Chronic Care

- Priority of White House and CMS since 2016
- Funding program at Federal Communications Commission enhanced through appropriations and CARES Act
- Restructured to focus on rural providers
- Leverages developing and developed trends in telemedicine and Remote Physiological Monitoring
- Changes to direct supervision rule paves way for scale

Developing

Remote Physiological Monitoring and Communication Technology-based Services

- Change in CPT Codes in 2018 separated billing for CTBS
- Subsequent changes
 have permitted billing by
 non-physician
 practitioners who do not
 bill for
 Evaluation/Management
 Services
- Expansion of RPM codes and permitted billing entities

Developed

Telemedicine

- Accelerated by COVID-19 outbreak
- Mostly affects what services physicians and NPPs can provide and bill
- Codes greatly expanded on Physician Fee Service schedule and likely to change again at end of Public Health Emergency

Medicare | PFS Emergency Telehealth Provisions



1 Permanent

- Group Psychotherapy (CPT 90853)
- Domiciliary, Rest Home or Custodial Care Services, Established Patients (CPT 99334-99335)
- Home Visits, Established Patients (CPT 99347-99348)
- Cognitive Assessment and Care Planning Services (CPT 99483)
- Visit Complexity for Certain Office/Outpatient/E/M (HCPCS CPC1X)
- Prolonged Services CPT (99XXX0
- Psychological and Neuropsychological Testing (CPT 96121)

2

Temporary Extension

- Domiciliary, Rest Home or Custodial Care Services, Established Patients (CPT 99336-99337
- Home Visits, Established Patient (CPT 99349-99350)
- Emergency Department Visits Levels 1-3 (CPT 99281-99283)
- Nursing Facility discharge day management (CPT 99315-99316)
- Psychological and Neuropsychological Testing (CPT 96130-96133)

3

Not Extended

- Initial Nursing facility visits, all levels (CPT 99304-99306
- Psychological and Neuropsychological Testing (CPT 96136-96139)
- Therapy Services, Physical and Occupational, All Levels (CPT 97161-97168, 97110,97112,97116,97535,97750, 97755, 97760,97761,92521-92524,92507)
- Initial Hospital Care and hospital discharge day management (CPT 99221-99223, 99238-99239)
- Inpatient Neonatal and Pediatric Critical Care (CPT 99468-99472, 99475-99476, 99477-99480
- Critical Care Services (CPT 99291-99292
- ESRD Monthly Capitation (CPT 90952,90953,90956,90959,90962
- Radiation Treatment Management (CPT 77427)
- Emergency Room Visit Levels 4-5 (CPT 99284-99285
- Domiciliary, Rest Home or Custodial Care services, New (CPT 99324-99328)
- Home Visits, New Patient, All levels (CPT 99341-99345)
- Initial and Subsequent Observation and Observation discharge (CPT 99217-99220, 99224-99226, 99234-99236

CMS cannot change prohibition of "home" as an originating site; nor can it allow permit audio only telehealth. Cannot alter restriction on rural originating site

Medicare | The Law



"The Secretary shall pay for telehealth services that are furnished via a telecommunications system by a physician or a practitioner to an eligible telehealth individual enrolled under this part notwithstanding that the individual physician or practitioner providing the telehealth service is not at the same location as the beneficiary."

Distant Site

The term "distant site" means the site at which the physician or practitioner is located at the time the service is provided via a telecommunications system.

- Physician/Practitioner Office
- Hospital Clinic
- Inpatient Hospital
- Any other place physician may be located

Originating Site

[T]he term "originating site" means only those sites described below at which the eligible telehealth individual is located at the time the service is furnished via a telecommunications system:

- Physician/Practitioner
- Critical Access Hospital
- Rural Health Clinic
- Federally Qualified health Center
- Hospital
- Hospital or CAH based dialysis center
- SNF
- Community Mental Health Center

AND Located in:

- Rural health professional shortage area
- NOT in an MSA

Services/Fees

Services

- Professional consultations
- Office visits
- Office psychiatry visits
- Any other services specified by CMS (updated annually)

Fees

- Facility fee is 80% of actual charge or 80% of the originating site's normal facility fee; no facility fee is paid if originating site is a home
- Usual deductible and co-insurance rates apply
- Provider charges normal professional fee

Exceptions

From geographical originating site requirements -

- Clinical assessment for ESRD patients provided face-to-face assessment conducted once/3 months (dialysis clinic or home)
- Stroke Treatment (hospital, CAH or mobile stroke unit)
- Substance Abuse Disorder (home)

From most requirements -

Medicare Advantage Plans

Medicare | Permitted Telehealth Practitioners



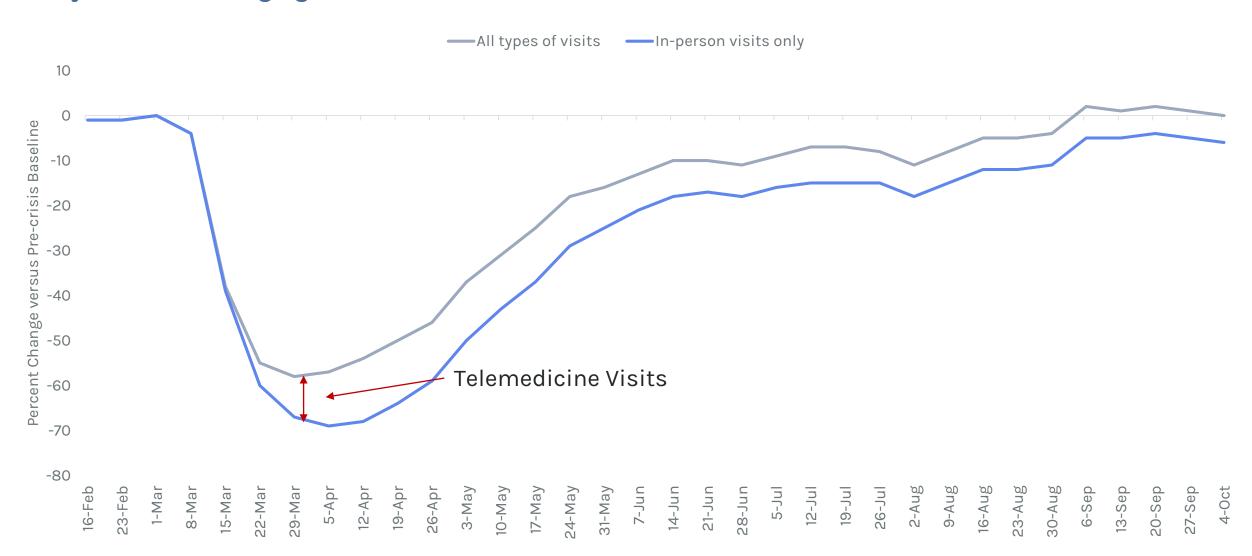
- 1 Physician assistant, nurse practitioner, or clinical nurse specialist
- 2 Certified registered nurse anesthetist
- 3 Certified nurse-midwife
- 4 Clinical social worker or clinical psychologist
- 5 Registered dietitian or nutrition professional

Requirement for
"Direct Supervision"
can be met via
interactive
telecommunications
without physical
presence of physician
or NPP until end of
PHE and may be
extended
permanently

Telemedicine Use Declining But Above Baseline



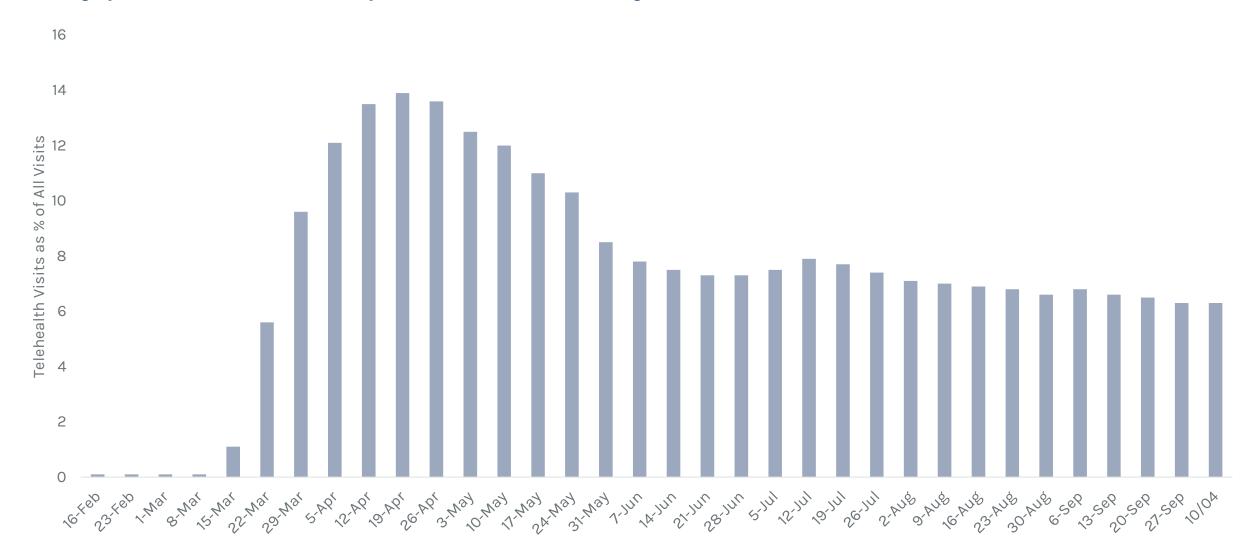
Policy concerns emerging around overuse



Use of Telemedicine Still on a Slow Decline

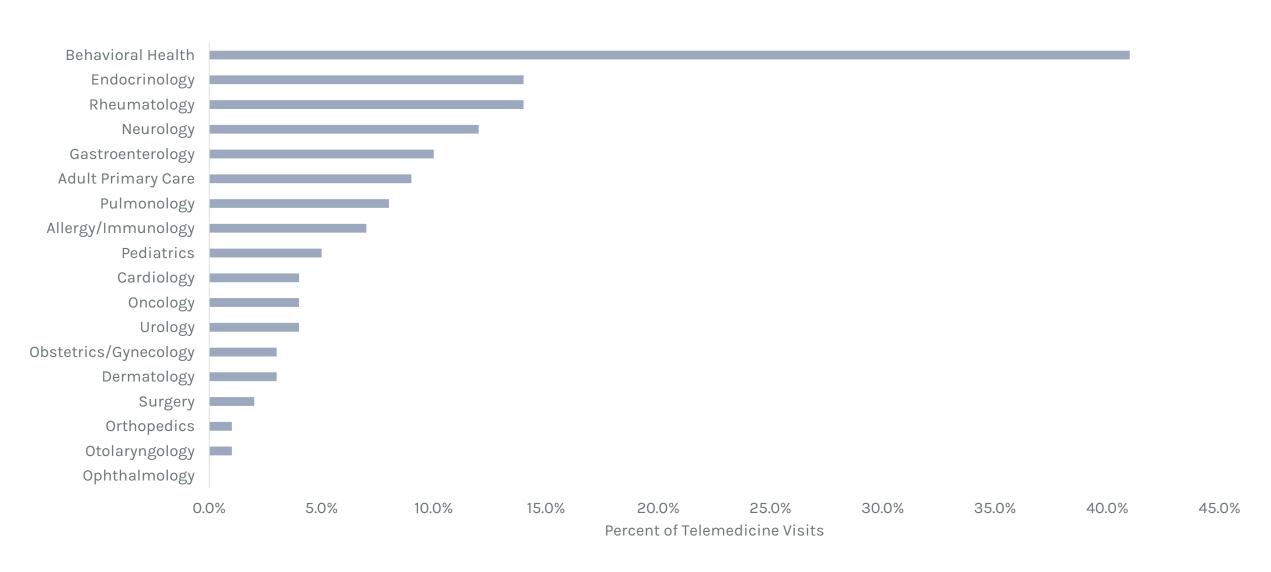


Acuity, patient need, and best practices limit its utility



Telehealth Emerging as Chief Modality for Behavioral





Data Source: Commonwealth Fund © Hedgeye Risk Management LLC.

Communication Technology-based Services



CY 2019 Rule

- Determined that there were services that could be furnished via telecommunications technology but were NOT considered Medicare telehealth
 - G2010 Remote Evaluation of store-and-forward video or images including followup by professional who can report E/M services
 - G2012 Virtual check-in by physician or other NPP who can report E/M services

CY 2020 Rule

- Developed codes for NPP who cannot bill independently for E/M services
 - G2061 Qualified NPP online assessment and management, established patient for up to 7 days cumulative, 5-10 minutes
 - G2062 Qualified NPP online assessment and management, established patient for up to 7 days cumulative. 11-20 minutes
 - G2063 Qualified NPP online assessment and management, established patient for up to 7 days cumulative, 21 minutes or more
- For PHE, determined codes could be billed social workers, clinical psychologists, PT, OT and SLP

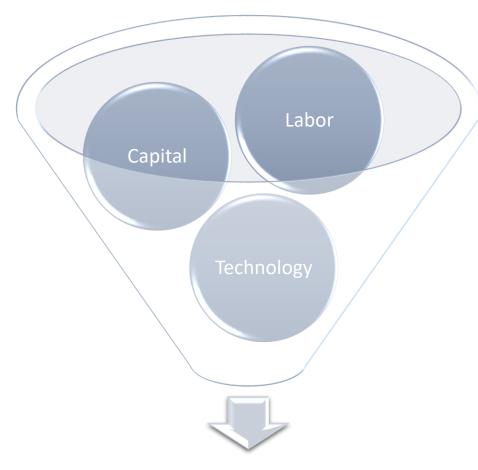
CY 2021 Proposed

- Proposing to adopt permanently expansion of NPP from CY 2020
- Proposing two new codes for practitioners who cannot bill independently for E/M services
 - G20X0 Remote assessment of recorded video/images submitted by established patient including interpretation w/follow-up in 24 hours
 - G20X2 Brief CTBS by NPP similar to G2012
- Designating these and CY 2020 codes as "sometimes therapy" services to facilitate billing by therapists

Top of the Funnel: Macro Drivers of Change



- The infusion of capital into the health system is unprecedented = \$490 Billion in 6 months
- Labor demand especially for nurses originates from a greater variety of sites than ever before, straining the system
- Technology to improve productivity and make the system more efficient is still in its infancy
- Deregulation will put more demands on innovation and productivity



Subsector Analysis

Next Week | Subsector Analysis



- 1 Use of Excess Capital
 - CROs, Labs, R & D
 - Buffering labor disruptions
- 2 Labor demands
 - Coming from everywhere pharmacies, CROs, labs
 - Vicious cycle between acuity and labor supply; mad scramble for patients
- 3 Technology Advances
 - Necessary to enhance productivity
 - Desired to make experience more pleasant
- 4 Deregulation
 - Exacerbating labor demands
 - Driving Technology

Data Source: Hedgeye Estimates

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Please submit questions* to

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^{*}Answered at the end of the call



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