Stroke Awareness in the Time of COVID-19

September 1, 2020



Speakers



Peter Panagos, MD

Chair of the AHA/ASA Stroke
Council; Director of Neurovascular
Emergencies; Co-Director, BJC
Washington University School of
Medicine Stroke Network



Mohannad Kusti, MD

President &
Chief Medical Officer
Optimal Workplace &
Environmental Wellness
Corporation



Gaye Fortner
Chief Executive Officer
HealthCare 21
Business Coalition



Jessica Brooks
President & CEO
Pittsburgh
Business Group on Health



Maintaining Stroke As A Priority During COVID-19

Peter Panagos, MD, FAHA, FACEP
Professor, Emergency Medicine and Neurology,
Washington University School of Medicine, St Louis, MO
Chairman, American Heart Association/American Stroke
Association Stroke Council

September 1, 2020





DISCLOSURES

I have no financial interests or relationships to disclose.





STROKE BY THE NUMBERS

40 seconds someone has a stroke









#5

Cause of death in the USA



1 in 4

strokes are in people who have had a previous stroke

80% OF ALL STROKES CAN BE PREVENTED



Together to End Stroke

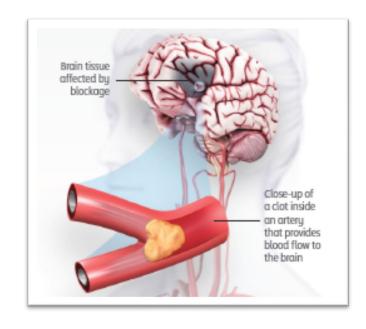




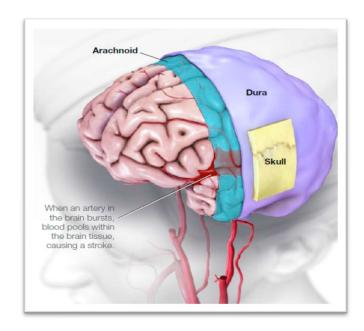


WHAT IS A STROKE?

A brain injury caused when a blood vessel to the brain becomes <u>blocked</u> (**blood clot**) or <u>bursts</u> (**hemorrhage**), cutting off blood flow and oxygen to the brain



Ischemic Stroke



Hemorrhagic Stroke





WHAT ARE STROKE WARNING SIGNS?

Remember:

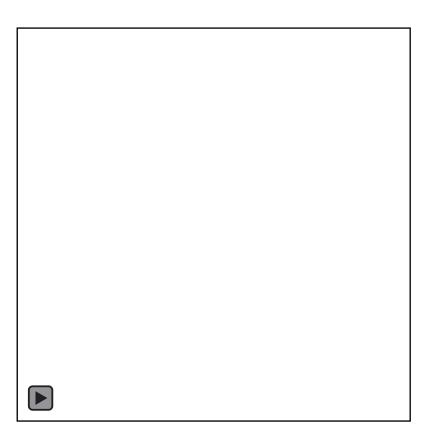


Additional Stroke Warning Signs:

- <u>Sudden</u> weakness or numbness of the face, arm or leg, especially on one side of the body
- <u>Sudden</u> confusion, trouble speaking or understanding
- <u>Sudden</u> trouble seeing in one or both eyes
- <u>Sudden</u> trouble walking, dizziness, loss of balance or coordination
- Sudden severe headaches with no known cause



WHEN STROKE OCCURS, TIMELY TREATMENT IMPROVES RECOVERY



Every second counts in preventing brain damage!



LEARNINGS ABOUT COVID-19 & STROKE



Blood thinners show promise for boosting the survival chances of the sickest covid

New York hospital system's observational study looked at 2,733 patients in and out of the intensive care



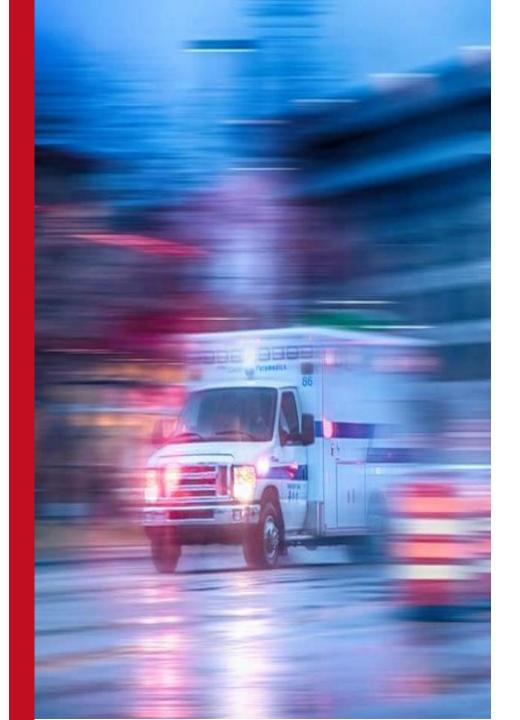
THE PROBLEM

Data shows that fewer people called 911 between January 1, 2020 through April 12, 2020

20%
decrease
stroke
cases

But, strokes don't stop for COVID-19

COVID-19 may be stopping people from calling 911 and going to the hospital





THE PROBLEM: VALIDATED BY LITERATURE

Effect of COVID-19 on Emergent Stroke Care

A Regional Experience

Jessica Hsiao, Emily Sayles, Eleni Antzoulatos, Robert J. Stanton, Heidi Sucharew, Joseph P. Broderick, Stacie L. Demel, Matthew L. Flaherty, Aaron W. Grossman, Charles Kircher, Natalie Kreitzer, Katrina Peariso, Charles J. Prestigiacomo, Peyman Shirani, Kyle B. Walsh, Holly Lampton, Opeolu Adeoye, Pooja Khatri

Originally published 8 Jul 2020 | https://doi.org/10.1161/STROKEAHA.120.030499 | Stroke. 2020;51:e2111-e2114

Decline in Stroke Presentations During COVID-19 Surge

Ken Uchino ☑, Murali K. Kolikonda, Dena Brown, Shivakrishna Kovi, Dana Collins, Zeshaun Khawaja, A. Blake Buletko, Andrew N. Russman, M. Shazam Hussain

Originally published 18 Jun 2020 | https://doi.org/10.1161/STROKEAHA.120.030331 | Stroke. 2020;51:2544-2547

Blacks Are Less Likely to Present With Strokes During the COVID-19 Pandemic

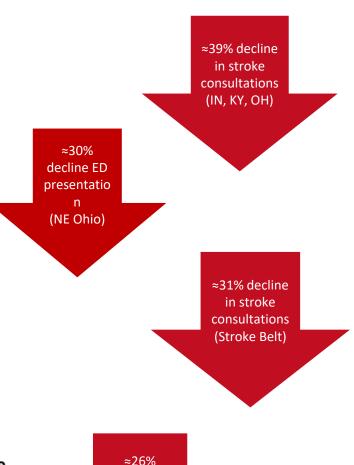
Observations From the Buckle of the Stroke Belt

Cori Cummings, Eyad Almallouhi ⊡, Sami Al Kasab, Alejandro M. Spiotta, Christine A. Holmstedt Originally published 5 Aug 2020 | https://doi.org/10.1161/STROKEAHA.120.031121 | Stroke. ;0

Acute Stroke Presentation, Care, and Outcomes in Community Hospitals in Northern California During the COVID-19 Pandemic

Mai N. Nguyen-Huynh ⊡, Xian Nan Tang, David R. Vinson, Alexander C. Flint, Janet G. Alexander, Melissa Meighan, Molly Burnett, Stephen Sidney, Jeffrey G. Klingman

Originally published 7 Aug 2020 | https://doi.org/10.1161/STROKEAHA.120.031099 | Stroke.;0



decline in

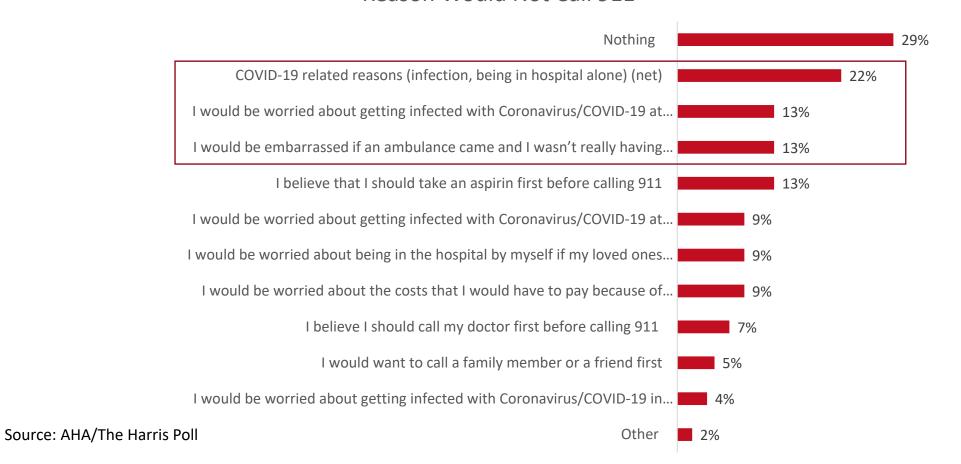
stroke alerts (No CA)



BARRIERS TO CALLING 911

Most common reasons for not calling 911 = COVID-19 related - worry about infection/being alone in hospital (22%), as well as embarrassment (13%)

Reason Would Not Call 911





Hispanics, Blacks More Likely to Stay Home

Non-Hispanic Blacks and Hispanics are significantly more worried about getting infected at the hospital & significantly more likely to say they'd stay home, compared with non-Hispanic Whites

	Non-Hispanic White	Non-Hispanic Black	Hispanic
I would be scared to go to the hospital if I thought I was having a heart attack or stroke because I might get infected with Coronavirus/COVID-19.	40%	45%	*55%
If I thought I was having a heart attack or stroke, I would rather stay home than risk getting infected with Coronavirus/COVID-19 at the hospital.	24%	*33%	*41%
I believe my hospital would give me the same quality of care that they give everyone else.	*89%	74%	78%

Source: AHA/The Harris Poll



DON'T DIE OF DOUBT

American Heart Association₀
Don't Die of Doubt™

www.heart.org/dontdieofdoubt

OUT OF HOME



Strokes don't wait to see if you feel better.

Call 9-1-1. Get to the hospital.



DIGITAL BANNERS







TV PSA



PRINT ADS



CAMPAIGN ASSETS

(also available in Spanish)

- Broadcast TV
- · Broadcast Radio
- Digital Assets
- Social Media Ads
- · Out of Home
- Print Ads
- Localizable Microsite
- Press Release
- · Media Pitch
- Key Messaging
- Rip-and-Read
- Letter to Editor
- Infographic(s)



The Business Case For Employers:
The Needs of the patient, barriers to treatment

Mohannad Kusti, MD, MPH

Regional Medical Director at Pivot Onsite Innovation Pittsburgh Business Group on Health – Medical Director Email: mkusti@pivoths.com

The Business Case For Employers

- Current Health and Wellness Status of the workforce!
- Population at risk for Stoke/Heart Attacks: Increase age, atherosclerosis, Cancer, High blood pressure, high cholesterol, smoking, obesity, and diabetes.
- Population at risk for severe illness with COVID-19: Increase age, Cancer, Chronic kidney disease, Obesity, atherosclerosis, coronary artery disease, diabetes, Cerebrovascular disease, high blood pressure, and Smoking.

References

- https://www.cdc.gov/stroke/facts.htm
- https://www.cdc.gov/coronavirus/2019-ncov/need-extra-precautions/people-with-medical-conditions.html#:~:text=People%20of%20any%20age%20with,Chronic%20kidney%20disease.
- https://www.cancer.gov/news-events/cancer-currents-blog/2017/heart-attack-stroke-risk-cancer#:~:text=A%20diagnosis%20of%20cancer%20can,seen%20in%20people%20without%20cancer.



The Value of Wellness Programs

- Current Health and Wellness Status of the workforce!
- Healthier workforce were less susceptible to severe outcome from COVID-19 infection and for Stroke.
- Wellness Program proactively prevent these risk factor and could have benefited the workforce.

References

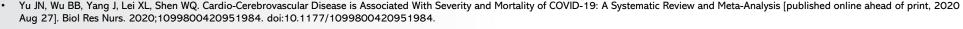
- https://www.cdc.gov/stroke/facts.htm
- https://www.cdc.gov/coronavirus/2019-ncov/need-extra-precautions/people-with-medical-conditions.html#:~:text=People%20of%20any%20age%20with,Chronic%20kidney%20disease.
- https://www.cancer.gov/news-events/cancer-currents-blog/2017/heart-attack-stroke-risk-cancer#:~:text=A%20diagnosis%20of%20cancer%20can,seen%20in%20people%20without%20cancer.



What Self-Funded/Self-Insured Employers can Expect?

- Cardio-cerebrovascular disease is associated with an increase in the risk of severe illness and death among COVID-19 patients.
- Many patients have delayed routine physicals, preventive exams, elective procedure, and in general seeking medical attention during early onset of symptoms.
- Delay in treatment, leads to more complication and therefore more complex claims.







Take Away for Employer

- Have a discussion with your Health plan TPA, PBM, & any other chronic disease management program (HTN, DM, Sleep, etc.).
- Need to do an outreach to all members and covered lives under the plan. Educational materials on early signs.
- Best not to plan healthcare cost budgets on the results of 2020 and think of this year as an outlier.
- Expect a surge in healthcare claim costs in 2021.









We teach our people.
We learn from our people.
At every site.
Every day.

Mohannad Kusti, MD, MPH

Email: mkusti@pivoths.com



COVID and Coalitions In Cars

Gaye Fortner, CEO HealthCare 21 Business Coalition
Jessica Brooks, CEO Pittsburg Business Group on Health

Purpose

To provide employers with mini briefs on potential health gaps created by the coronavirus pandemic

- Include action items the employer can take to:
 - Monitor the topic via claims or other data vendor
 - Consider benefit design implications
 - Use for employee messaging
 - Provide links for additional information



I keep thinking about COVID and 19 Crimes (like the wine)

Funny. How about: *Coalitions in Cars Talking about Corona*. Like Jerry Seinfeld does with *Comedians in Cars Getting Coffee*.

You can sit in the front seat of your car and conduct the webinar or minute brief —

Stop laughing.

Perfect!

Business Groups Band Together to Use Healthcare Data to Gauge the Impact of COVID-19 Virus

PITTSBURGH – March 24, 2020 – <u>Central Penn Business Group on Health</u>, <u>HealthCare 21</u> in Knoxville, TN, and the <u>Pittsburgh Business Group on Health</u> today announce they are launching an initiative to help better inform employers about the impact of COVID-19.

In response to the current crisis, all three have directed Innovu to track COVID-19 testing beginning in April when the codes are released to the providers for billing.

In addition to tracking COVID-19 testing, they have asked Innovu to track certain claims categories that may be impacted in utilization or cost.

Of specific benefit to–Innovu clients is the ability for them to access customized dashboards and view any subset of their population as frequently as they desire.

Additionally, the Business Groups are concerned about the other societal impacts, so they have asked Innovu to measure changes to claims regarding mental health and substance abuse, overall claim trends, and impact on patients with chronic conditions.

The analysis requested will be compared against Innovu's vast benchmark to identify cohorts by age bands, geography and industry.

Virus Action Brief

MIGRAINE AND COVID-19

DID YOU KNOW?

Virus Action Brief

Obesity and COVID-19

The Enhanced Risk of Severe Outcomes for Obese Populations

Abstract

COVID could be hitting some patients harder than others. The Centers for Disease Control and Prevention (CDC) warns that those with pre-existing medical conditions, such as obesity are at risk of severe outcomes related to COVID-19 even if under the age of 65. While conditions such as lung disease and heart conditions are most commonly discussed, obesity, which the CDC reports affects more than 40% of America's workforce, may be the most important predictor to consider. Even in young patients, a BMI of 30 or higher could mean doubling the odds of hospitalization as a result of



SUICIDE AND COVID-19

Virus Action Brief



Focus on Stroke

The Importance of Recognizing the Signs and Acting Urgently During COVID-19





pealth issues and access to services related to ealth have skyrocketed during the recent pandemic. U.S. sales of alcoholic beverages in the week ending March 21, according to search firm Nielsen, and calls to domestic

Introduction

In the midst of the COVID-19 pandemic, we are all continuing to na waters and to manage our employees and families' health and wellb 2020 the United States declared a national emergency in response t and many states issued stay-at-home orders to slow the spread of C being said, health experts feared that COVID-19 may cause people t hospital or calling 911 for non-COVID emergencies and that is exact According to the CDC emergency rooms have experienced a 42% dro March of 2020 and a 20% drop in their stroke departments. Strokes cause of long-term disability in the United States and on average cos each year. As COVID-19 continues it is crucial to remember that: 1.5 during a pandemic and 2. Most people do not know the symptoms. Ex

Virus Action Brief

Focus on Hypertension

The Importance of Managing Chronic Conditions During COVID-19



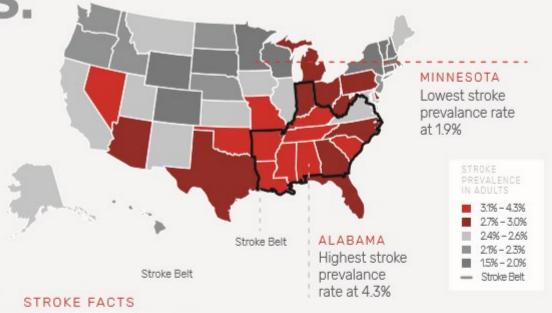


Stroke Demographics in the U.S.

Every year, close to **800,000 AMERICANS**have a stroke.

Even during a pandemic, a stroke can happen to **ANYONE**, of **ANY AGE**, at **ANY TIME**.

Learn the STROKE SYMPTOMS and RISK FACTORS.



You can control and treat several risk factors for stroke.

Manageable risk factors of stroke include high blood pressure, atrial fibrillation (AFib), high cholesterol, smoking, diabetes, poor circulation, lack of physical activity, and obesity.

BE FAST when you suspect a stroke. Recognizing the signs and calling 911 can help a loved one get the medical attention he or she needs.

IF YOU SUSPECT STROKE, DON'T HESITATE, CALL 911 IMMEDIATELY.

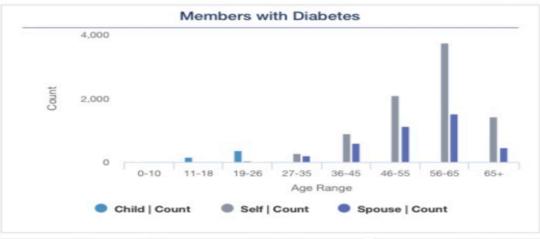
STROKE CARE IS AVAILABLE AND SHOULD NOT BE DELAYED, EVEN DURING A HEALTH CRISIS. LEARN MORE AT STROKEAWARENESS.COM

Organization Risk by Medical Condition

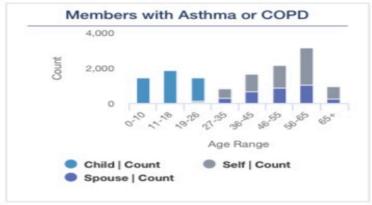
COVID-19 - Potential Employer Impact
Cohort: PBGH

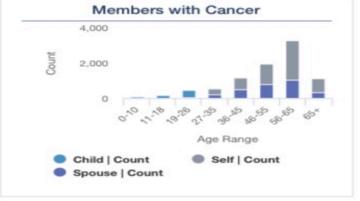


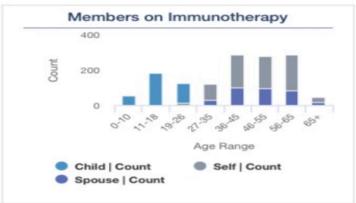
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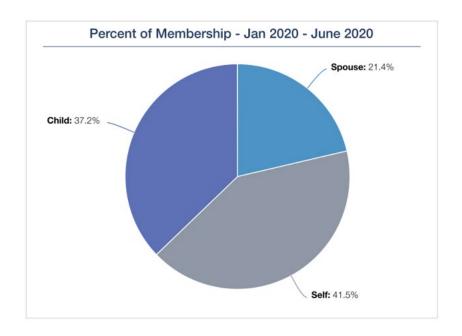


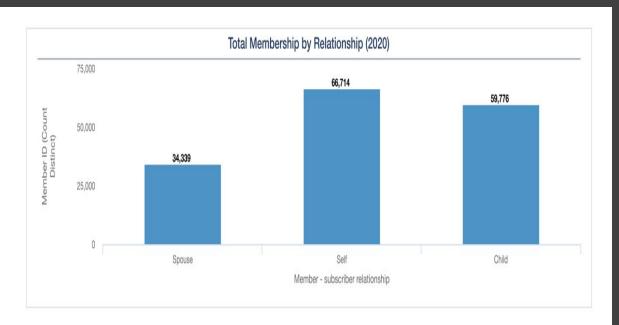


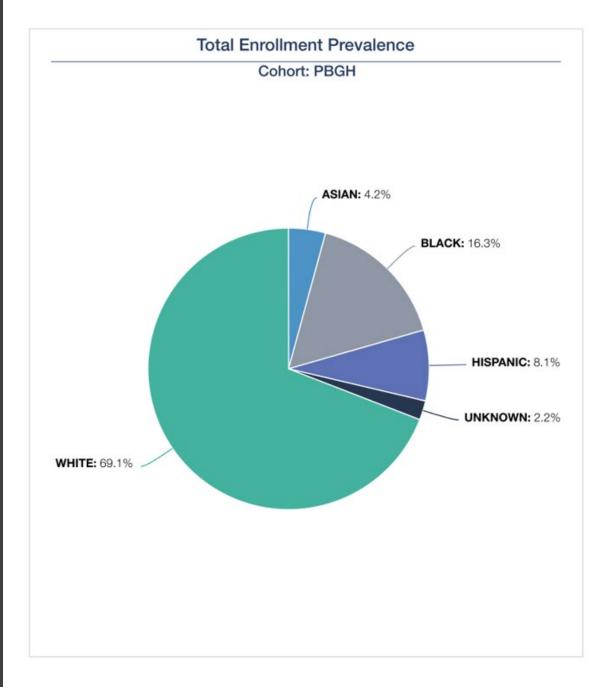


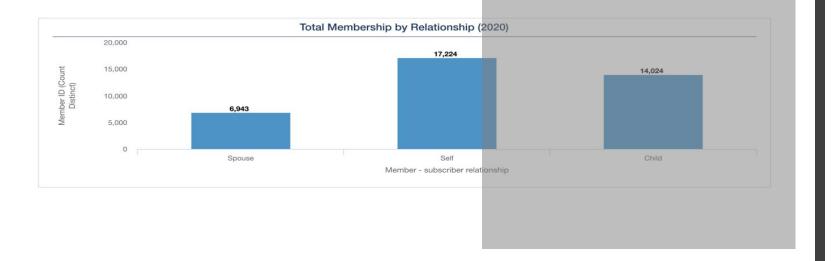


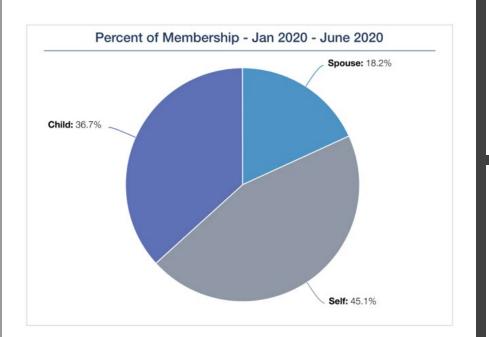


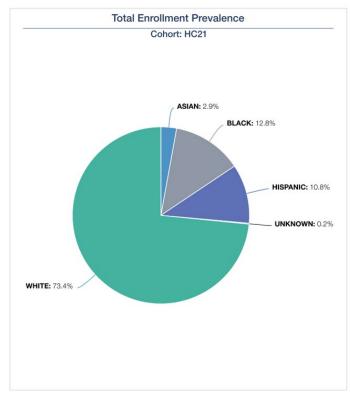












COVID-19 - Potential Employer Impact



Cohort: PBGH

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Data for current month may be incomplete until new data is received.





COVID-19 - Potential Employer Impact



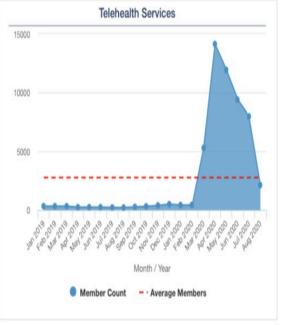
Cohort: PBGH

Telemedicine is billed in two primary ways reported here as Telehealth and Additional Billed Telemedicine.

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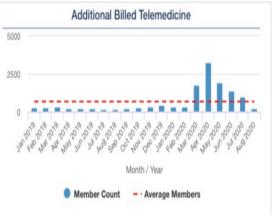
Top Telehealth Services Incurred since March 1, 2020

	Procedure Short Description	Member Count	Paid
1	OFFICE/OUTPATIENT VISIT EST	22,492	\$2,999,756
2	PSYTX W PT 60 MINUTES	4,102	\$2,509,320
3	OFFICE/OUTPATIENT VISIT NEW	2,054	\$273,278
4	PSYTX W PT 45 MINUTES	1,590	\$377,948



Additional Billed Telemedicine Incurred since March 1, 2020

	Procedure Short Description	Member Count	Paid
1	Brief check in by md/qhp	569	\$9,259
2	HC PRO PHONE CALL 5- 10 MIN	81	\$1,325
3	HC PRO PHONE CALL 21-30 MIN	61	\$4,037
4	PHONE E/M PHYS/QHP 11-20 MIN	3,750	\$124,341



Generated on 08/31/2020

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Questions?



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Available Resources



STROKE AWARENESS

URGING EMPLOYEES TO GET EMERGENCY CARE DURING THE PANDEMIC

ACTION STEPS FOR EMPLOYERS:

- Learn why people delay or forego emergency care and why they are doing so in greater numbers during the pandemic.
- Understand stroke risks and signs, including increased risk of stroke in COVID-19 patients.
- Review benefits to ensure appropriate coverage for urgent an emergency care.
- Evaluate health plan benefits and services to promote cardiovascular health and prevent hear disease and stroke
- 5. Educate and involve

Visits to the hospital emergency department (ED) declined 20% for strokes, 25% for heart attacks, and 10% for highblood-sugar crises between March 15 and May 23, 2020, compared to the previous 10 weeks, according to the CDC.

"Unrecognized fetalities" from COVID-19

suggest that many patients suffering from serious conditions are dying as a result of delaying or not seeking ore, as a result of delaying or not seeking ore, as the outbreak progresses and overwhelms many hospitals. With stroke the leading cause of long-tourn disselting in the US, where is an ungented to calm fears and encourage people to seek energismy care, even during these uncertain times. Of additional concerns in the fact that COVID-191s an independent risk factor.

for acute isolemine stroke, according to the first major peer-reviewed study on the subject. Teathers with COVID-198 hould be oralisated early for acute neurological changes," says Dr. Pimest Belain, researches for the Mount Sinai School of Medicine "Timely workup in patients suspected to harve stroke may reduce morbidity and mortality."

"The striking decline in ED visits for acute life-threatening conditions might partially explain observed excess mortality not associated with COVID-19."

-CDC Researche



Stroke Facts for Employ

- every 40 seconds; every four minutes someone dies of stro
- Stroke costs the US an estimated \$34 billion each year This includes the cost of health care services, medicines to tree
- ong-term disability.
- Patients who arrive at the emergency department within three hours of their first symptoms of their have less disability three months later than those who receive delayed care.

 —From Centers for Dise Control Stroke Fa

hers

Will be launched early September!





Public Resource on Stroke Awareness:

https://www.strokeawareness.com/

Quick Survey after the Webinar!

- Please complete the 3-question survey after the webinar
- Pop up box after the end of the session before you close out of the webinar
- Appreciate your feedback!



UPCOMING EVENTS

Returning to work safely during a global pandemic

September 10 | 2:00 PM ET

How COVID-19 Changes How We Address Workforce Health

September 15 | 4:00 PM ET

Key Employer Insights: What makes Primary Care ADVANCED Primary Care and How does it Add Value to Healthcare?

September 22 | 3:00 PM ET

