

2021 National Telehealth Survey Report - Allergy/Immunology

Prepared for:





AMA Telehealth Survey

Survey summary: This survey of physicians aimed to gather insights on the experiences of current and expected future use to inform ongoing telehealth research and advocacy, resource development, and continued support for physicians, practices, and health systems.

Data collection: The anonymous online survey was distributed to a convenience sample via email and social media by individuals, state and specialty medical organizations, and members of the American Medical Association Telehealth Immersion Program. The survey was active for 8 weeks between November 1, 2021, through December 31, 2021.

Specialized Report: This specialized report was prepared by the AMA for the American College of Allergy, Asthma, & Immunology, a Telehealth Immersion Program collaborator. Responses described in this report represent the 136 physician participants that identified their specialty as Allergy / Immunology. For the full report, visit us at: https://www.ama-assn.org/practice-management/digital/telehealth-resource-center-research-findings

Report limitations and considerations: The data presented in this report is based on a non-probability convenience sample. Results from this small sample should be considered directional and are not intended to suggest statistical significance or applicability to the general U.S. physician and healthcare professional population. Results in this specialty report are also not intended to generalize the specialty experience.



Participant Characteristics





Physician sample

N = 136 Physicians (MD/DO)

Specialty	N
Allergy / Immunology	136
Anesthesiology	-
Cardiology	-
Thoracic	-
Surgery Cardiovascular	-
Diseases Critical Care	-
Dentistry / Oral Surgery	-
Dermatology	-
Emergency Medicine	-
Endocrinology	-
Family Medicine	-
Gastroenterology	-
General Practice	-
Hematology / Oncology	-
Hospitalist	-
Infectious Disease	-
Internal Medicine, Primary Care	-
Mental/Behavioral Health	-
Nephrology	-
Neurological Surgery	-
Neurology	-
Obstetrics and Gynecology	-
Oncology	-

Specialty	N
Ophthalmology	-
Orthopedic Surgery	-
Otolaryngology	-
Palliative Care	-
Pathology	-
Pediatrics – Primary Care	-
Pediatrics – Hospitalist	-
Pediatrics – Procedural specialties	-
Pediatrics – Cognitive	-
Physical Medicine and Rehabilitation	-
Plastic Surgery	-
Psychiatry	-
Pulmonary Disease	-
Radiation Oncology	-
Radiology	-
Rheumatology	-
Surgery, General	-
Urological Surgery	-
Vascular Surgery	-
Other surgery-related specialty	-
Other non-surgery-related specialty	-
N/A	-
Total N =	136

Q2. Please indicate which of the following best describes your specialty.





State of residence

State	N
Alabama	3
Alaska	4
Arizona	1
Arkansas	2
California	15
Colorado	1
Connecticut	5
Delaware	0
Florida	7
Georgia	8
Hawaii	0
Idaho	0
Illinois	4
Indiana	3
lowa	1
Kansas	1
Kentucky	3
Louisiana	2
Maine	1
Maryland	4
Massachusetts	4
Michigan	3
Minnesota	1
Mississippi	1
Missouri	3
Montana	0

Specialty	N
Nebraska	3
Nevada	1
New Hampshire	2
New Jersey	3
New Mexico	1
New York	9
North Carolina	3
North Dakota	0
Ohio	6
Oklahoma	0
Oregon	1
Pennsylvania	5
Rhode Island	1
South Carolina	2
South Dakota	1
Tennessee	5
Texas	8
Utah	0
Vermont	0
Virginia	1
Washington	1
West Virginia	0
Wisconsin	3
Wyoming	0
Puerto Rico	0
U.S. Virgin Islands	0
Total N =	133

Q3. Please indicate which state you reside in.





State licensed to practice

Alabama Alaska Arizona Arkansas California Colorado Connecticut Delaware	3 4 1 4 17 1 6 1 8
Arizona Arkansas California Colorado Connecticut Delaware	1 4 17 1 6 1 8
Arkansas California Colorado Connecticut Delaware	4 17 1 6 1 8
California Colorado Connecticut Delaware	17 1 6 1 8
Colorado Connecticut Delaware	1 6 1 8
Connecticut Delaware	6 1 8
Delaware	1 8
2 0.01.0.0	8
	•
Florida	10
Georgia	10
Hawaii	0
Idaho	0
Illinois	6
Indiana	8
lowa	3
Kansas	2
Kentucky	4
Louisiana	3
Maine	2
Maryland	7
Massachusetts	4
Michigan	5
Minnesota	4
Mississippi	1
Missouri	7
Montana	1

Specialty	N
Nebraska	4
Nevada	1
New Hampshire	2
New Jersey	5
New Mexico	1
New York	12
North Carolina	5
North Dakota	0
Ohio	9
Oklahoma	0
Oregon	1
Pennsylvania	6
Rhode Island	1
South Carolina	2
South Dakota	1
Tennessee	6
Texas	9
Utah	0
Vermont	0
Virginia	4
Washington	1
West Virginia	0
Wisconsin	5
Wyoming	0
Puerto Rico	0
U.S. Virgin Islands	0
Total N =	132

Q4. Please indicate which state(s) in which you are licensed to practice medicine.

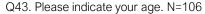




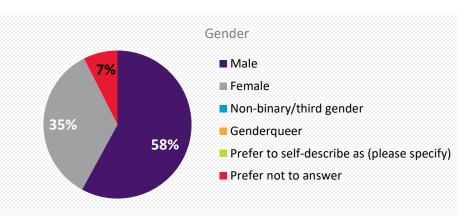
Respondent Demographics

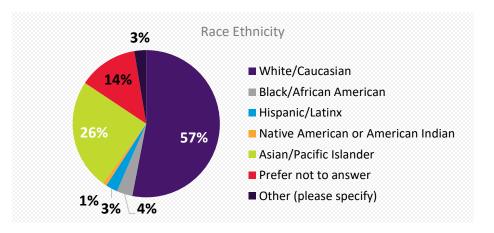
Age

Age Group	N	%
18 to 30	1	1%
31 to 40	13	12%
41 to 50	29	27%
51 to 64	27	25%
65 or older	26	25%
Prefer not to answer	10	9%



Q42. Please specify your gender. N=107

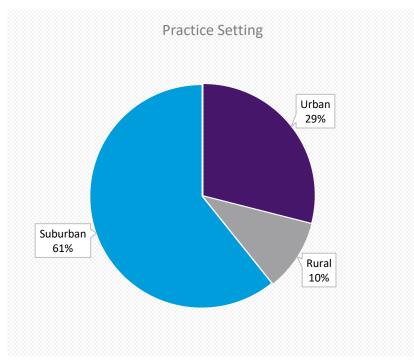


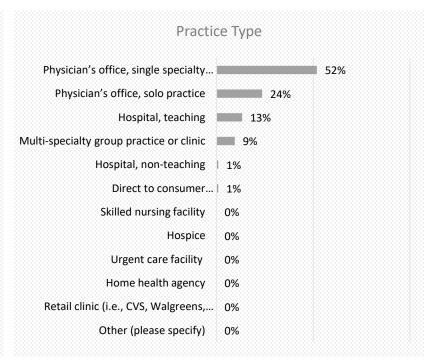


Q41. Please indicate your race/ethnicity (select all that apply). N=107



Practice Attributes

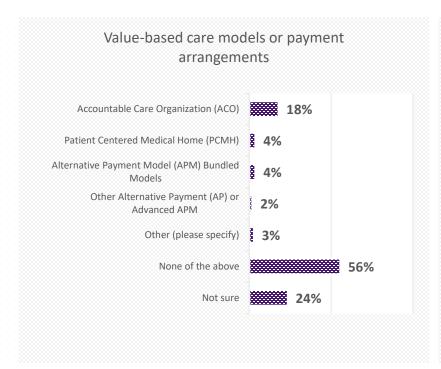


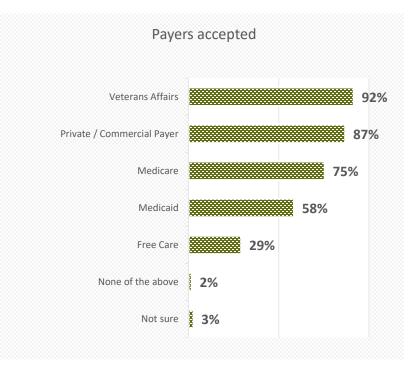


Q40. In what setting is your main/primary practice located? N=107 Q44. Which of the following best describes your main practice? N=106



Practice Attributes





Q45. Please indicate if you participate in any value-based care models or payment arrangements. (select all that apply) N=106 Q46. Which of the following payers do you accept in your practice? (select all that apply) N=106

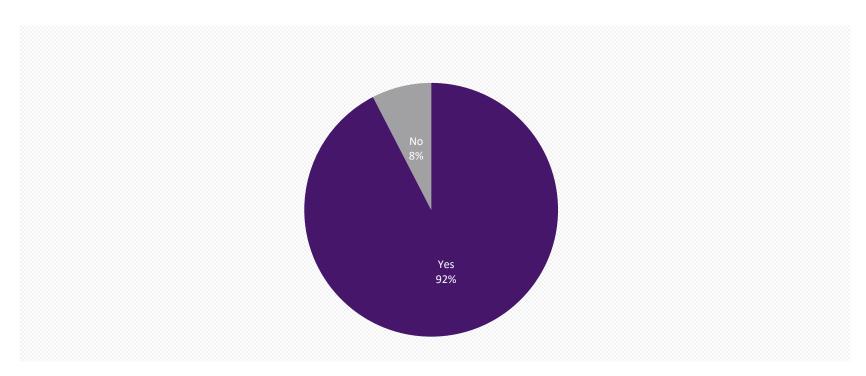


Telehealth use





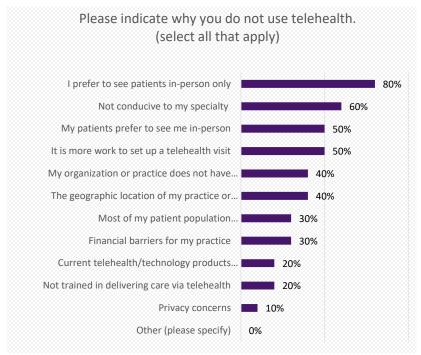
92% of respondents currently use telehealth

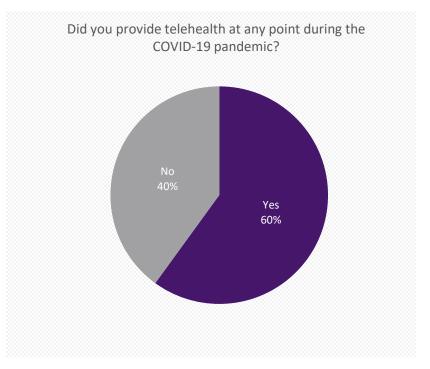


Q5. Do you currently use telehealth to care for your patients? N=132



Of the few respondents (8%) that do not currently use telehealth, 40% did not provide telehealth during the pandemic



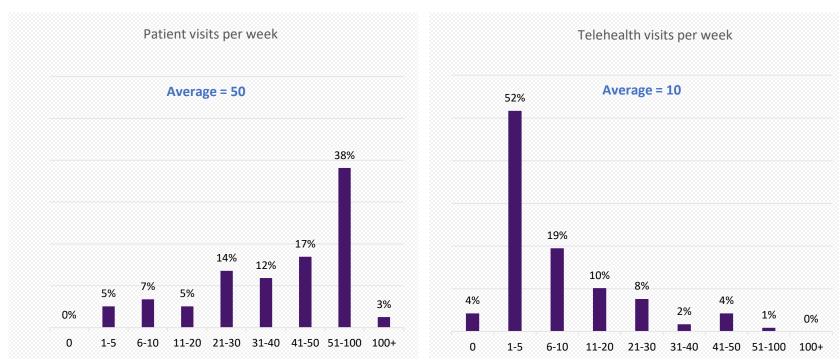


Q6. Please indicate why you do not use telehealth. (select all that apply) N=10

Q7. Did you provide telehealth at any point during the COVID-19 pandemic? N=10



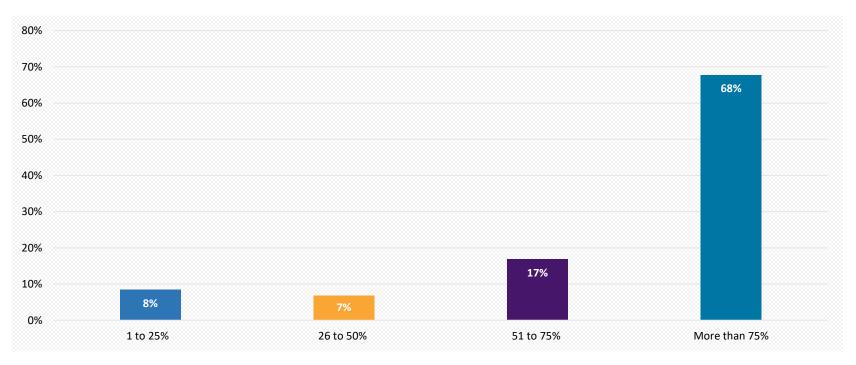
On average, respondents indicate nearly 1 out every 5 patient visits are conducted via telehealth



Q10. On average, how many patient visits do you have per week, including in-person and telehealth? N=118 Q11. How many telehealth visits do you currently average per week? N=118



Most respondents that use telehealth indicate that 75% or more of telehealth visits are with established patients



Q12. Currently, based on total volume of telehealth services delivered, what percent of your telehealth visits are with patients with whom you have an established patient/physician relationship? N=118





State where telehealth services are provided

Alabama Alaska Arizona Arkansas California Colorado Connecticut Delaware Florida Georgia Hawaii Idaho Illinois Indiana Iowa Kansas Kentucky	1 4 1 0 15 2 7 0 8 8 0
Arizona Arkansas California Colorado Connecticut Delaware Florida Georgia Hawaii Idaho Illinois Indiana Iowa Kansas	1 0 15 2 7 0 8 8
Arkansas California Colorado Connecticut Delaware Florida Georgia Hawaii Idaho Illinois Indiana Iowa Kansas	0 15 2 7 0 8 8
California Colorado Connecticut Delaware Florida Georgia Hawaii Idaho Illinois Indiana Iowa Kansas	15 2 7 0 8 8
Colorado Connecticut Delaware Florida Georgia Hawaii Idaho Illinois Indiana Iowa Kansas	2 7 0 8 8
Connecticut Delaware Florida Georgia Hawaii Idaho Illinois Indiana Iowa Kansas	7 0 8 8 0
Delaware Florida Georgia Hawaii Idaho Illinois Indiana Iowa Kansas	0 8 8 0
Florida Georgia Hawaii Idaho Illinois Indiana Iowa Kansas	8 8 0
Georgia Hawaii Idaho Illinois Indiana Iowa Kansas	8
Hawaii Idaho Illinois Indiana Iowa Kansas	0
Idaho Illinois Indiana Iowa Kansas	•
Illinois Indiana Iowa Kansas	0
Indiana Iowa Kansas	2
lowa Kansas	4
Kansas	4
	5
Kentucky	3
. to mainly	5
Louisiana	2
Maine	2
Maryland	5
Massachusetts	5
Michigan	2
Minnesota	3
Mississippi	1
Missouri	4
Montana	0

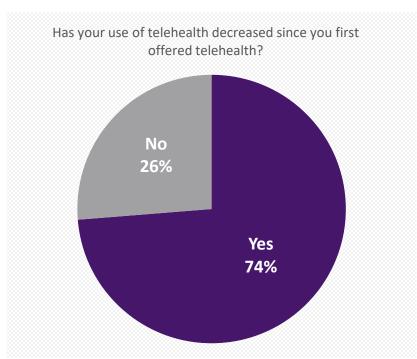
Specialty	N
Nebraska	3
Nevada	2
New Hampshire	3
New Jersey	5
New Mexico	2
New York	10
North Carolina	2
North Dakota	1
Ohio	7
Oklahoma	0
Oregon	3
Pennsylvania	7
Rhode Island	2
South Carolina	1
South Dakota	2
Tennessee	5
Texas	10
Utah	0
Vermont	1
Virginia	2
Washington	1
West Virginia	2
Wisconsin	3
Wyoming	0
Puerto Rico	0
U.S. Virgin Islands	0
Total N =	167

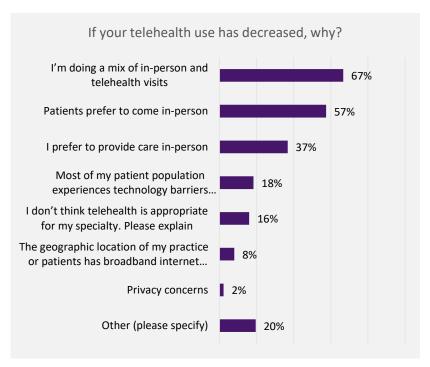
Q13: Please indicate the state(s) in which you provide telehealth services. (select all that apply)





Most respondents that report a decrease in use now provide a mix of in-person and virtual care





Q14. Has your use of telehealth decreased since you first offered telehealth services? N=118 Q15. If your telehealth use has decreased, why? N=87



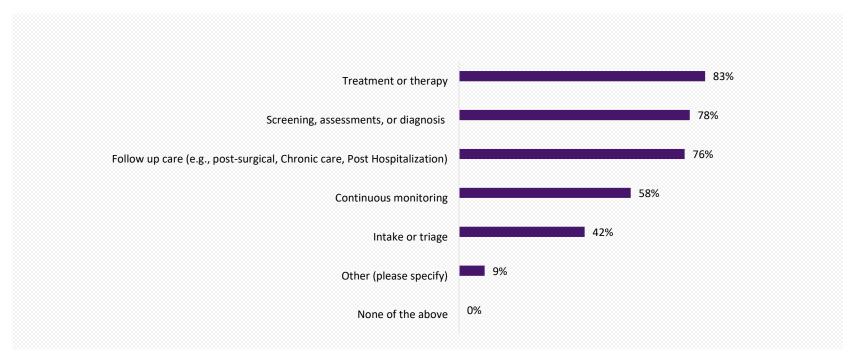


A deeper dive into the telehealth experience





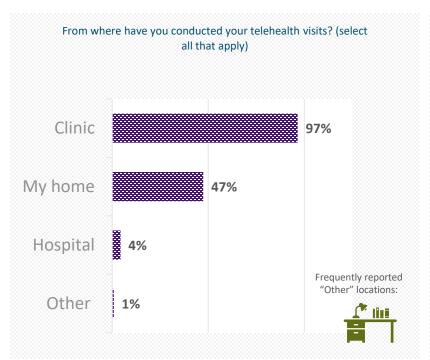
According to respondents, telehealth is currently being used across many aspects of care

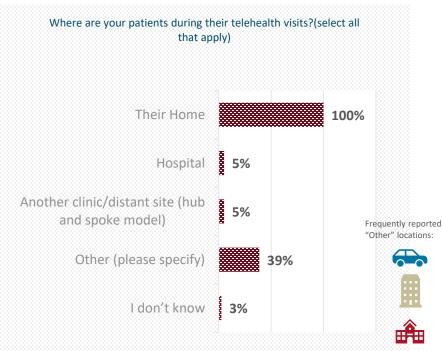


Q16. What aspects of care do you provide via telehealth? (select all that apply) N=116



Telehealth visits are mostly conducted from the clinic, while patients are typically located in their home





Q17. From where have you conducted your telehealth visits? (select all that apply) N=116 Q18. Where are your patients during their telehealth visits?(select all that apply) N=116

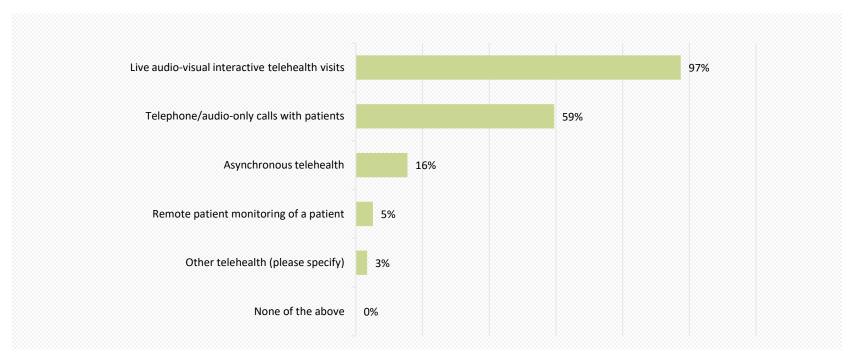


Telehealth Technology





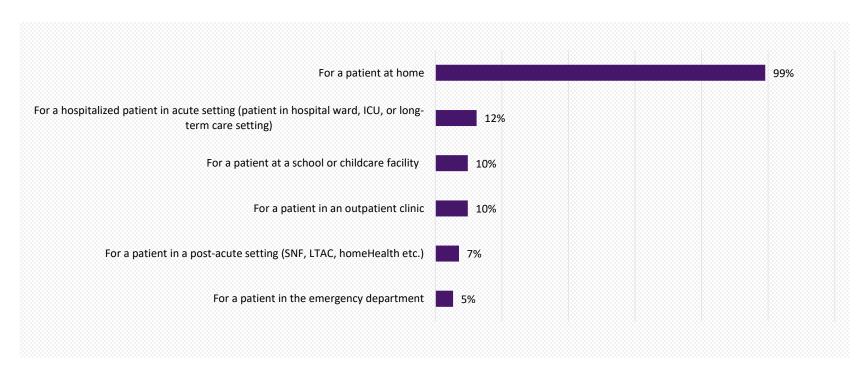
Most allergy/immunology respondents use live audio-visual technology to deliver telehealth



Q19. Which of the following telehealth modalities do you currently use to provide clinical care virtually to patients? (select all that apply) N=116



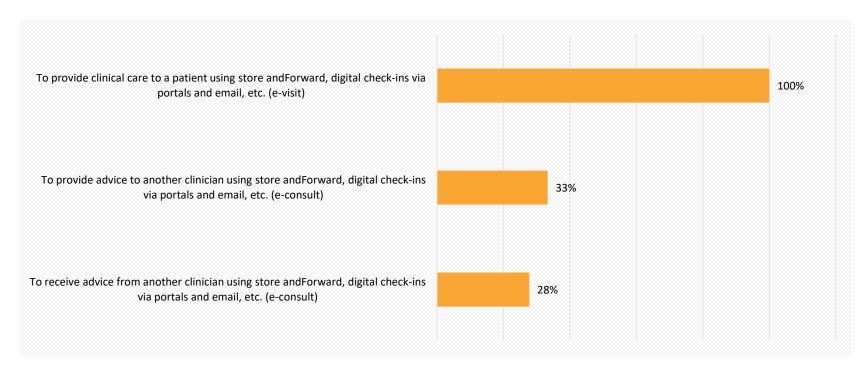
Live audio-visual technology is predominately used to see patients at home



Q19a. For whom do you use live audio-visual interactive telehealth? N=113



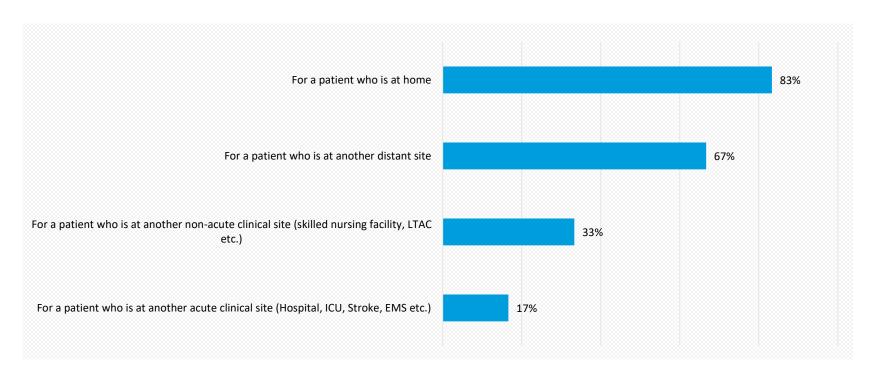
Asynchronous telehealth is mostly used for patient e-visits using store and forward, digital check-ins via patient portals, emails, etc.



Q19b. For what purpose do you use asynchronous telehealth? N=18



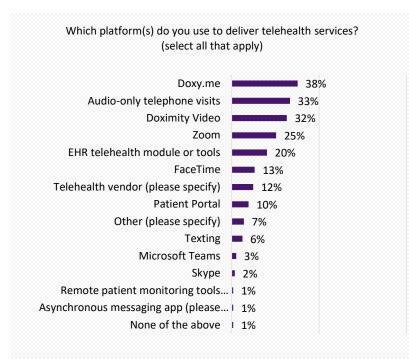
Remote patient monitoring is mostly used to see a patients at home

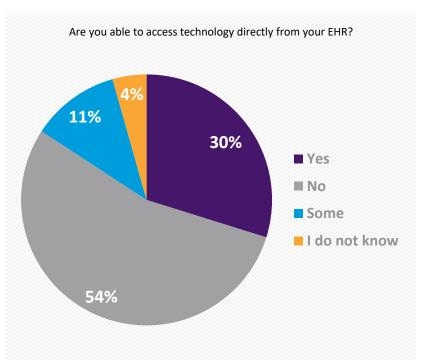


Q19c. For whom do you use remote patient monitoring? N=6



Various platforms are used to deliver telehealth; some can access these platforms via the EHR





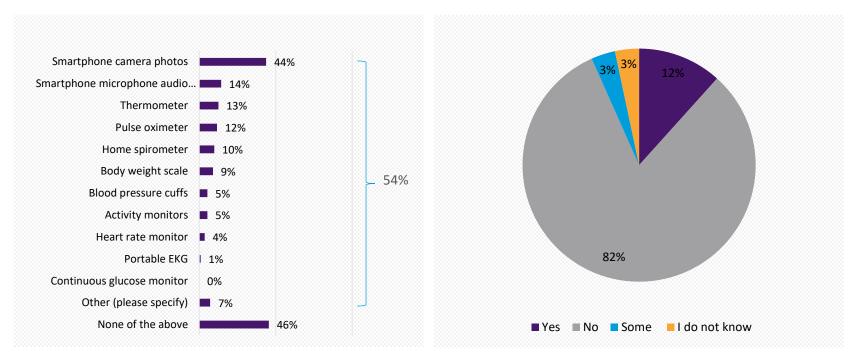
Q20. Which platform(s) do you use to deliver telehealth services? (select all that apply) N=114

Q21. Are you able to access your telehealth technology directly from your Electronic Health Record (EHR)? N=114



Technology used to augment telehealth services

82% report data from support technology is not automatically transmitted

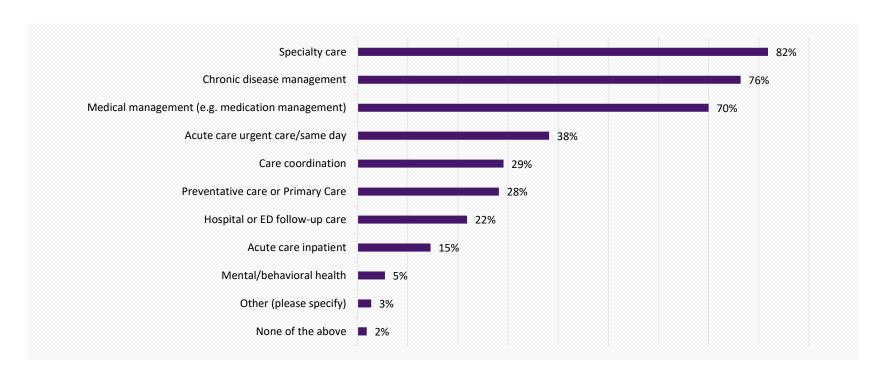


Q22. What type of technology are you using to support/augment your telehealth services? (Select all that apply) N=112

Q23. Do the devices you selected in the previous question automatically collect and deliver patient reported data to you? N=60



Telehealth is used to deliver a variety of health care services



Q24. What services do you or your practice/organization currently provide via telehealth? N=110



Most use cases for telehealth among allergy and immunology respondents are follow-up care

Follow ups

"Routine follow up patients"

"Uncomplicated routine follow-up for allergic rhinitis"

"Follow up of certain chronic conditions"

"Annual non-asthma follow-ups, new evaluations for out of town patients"

"New patient visits and follow up visits which are not likely to require any in office testing"

"Next day follow up for asthma exacerbation. Routine follow up for immunotherapy (allergy shots)."

"Follow up visits to see if medications need to be adjusted to control asthma and allergies"

"Follow up of uncomplicated patients."

"Follow up visits for established patients who are coming from 2-3 hours away."

"Regular follow up care without any major complications seemed appropriate enough to adopt telehealth, as along as the technology is readily, promptly, and flawlessly available."

Q25. What specific use cases within your specialty do you find most appropriate for telehealth?

Patient Screening

"Screening prior to seeing the patient in office to see if appropriate."

"New patient histories to determine necessary evaluation testing ahead of physically seeing patient"

Covid Patients

"Those in quarantine or isolation"

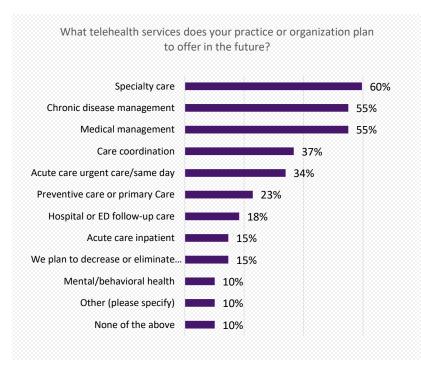
"When someone thinks they may have COVID and I do not want them in my office"

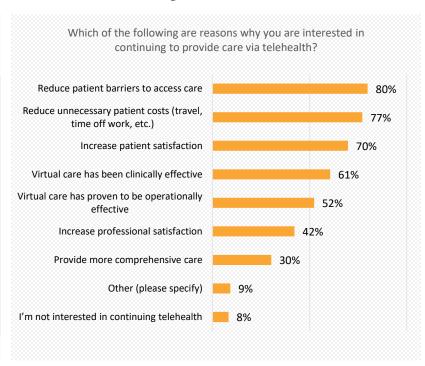
"Covid cases; other acute respiratory infections"





Practices plan to offer a variety of services via telehealth in the future for a variety of reasons



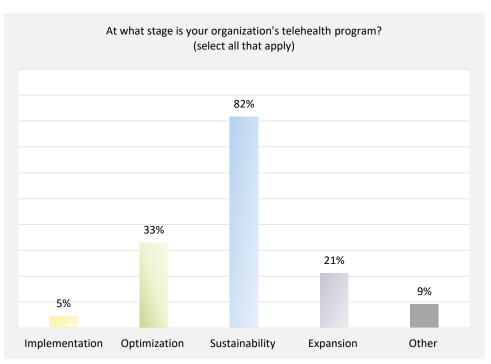


Q26. What telehealth services does your practice or organization plan to offer in the future? (select all that apply) N=109

Q27. Which of the following are reasons why you are interested in continuing to provide care via telehealth? (select all that apply) N=109



Most are focused on *sustaining* telehealth at their practice or organizations



Implementation = just getting started in implementing telehealth

Optimization = looking to improve existing telehealth operations

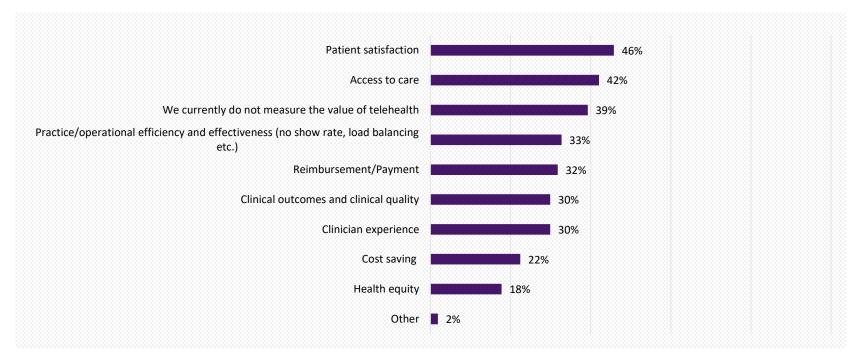
Sustainability = interested in continuing to offer telehealth services that seamlessly integrate with in-person care

Expansion = looking to expand telehealth offerings for other services, additional locations, or more comprehensive virtual care

Q28. At what stage is your organization's telehealth program? (select all that apply) N=109



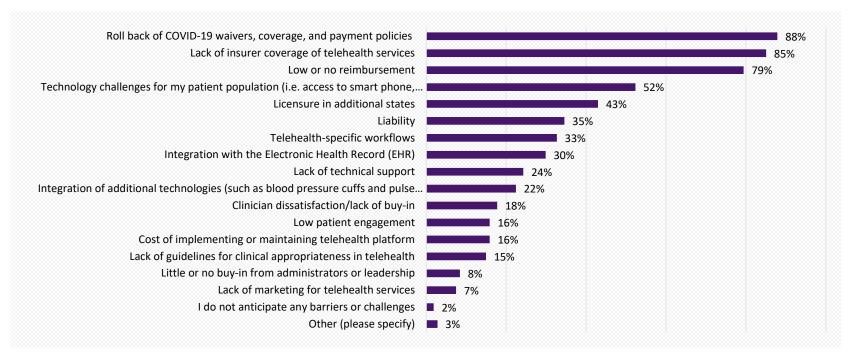
Most are measuring the value of telehealth via patient satisfaction and access to care metrics



Q29. How do you currently measure the value of telehealth in your practice or organization? (select all that apply and if you can, share examples of relevant metrics) N=107



Barriers to offering telehealth include coverage, payment, and reimbursement uncertainty

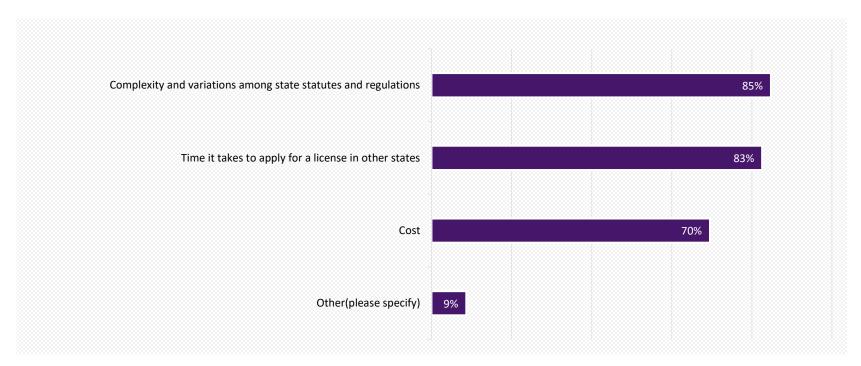


Q30. Which of the following, if any, do you anticipate being ongoing barriers or challenges to your organization offering telehealth? (select all that apply) N=107





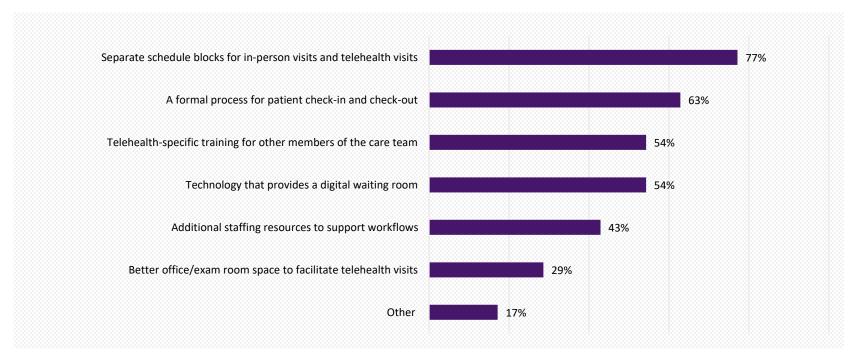
Respondents that report *licensure* as a barrier to adopting telehealth specify the following aspects to be a challenge



Q31. What barriers specific to licensure do you experience? (select all that apply) N=46



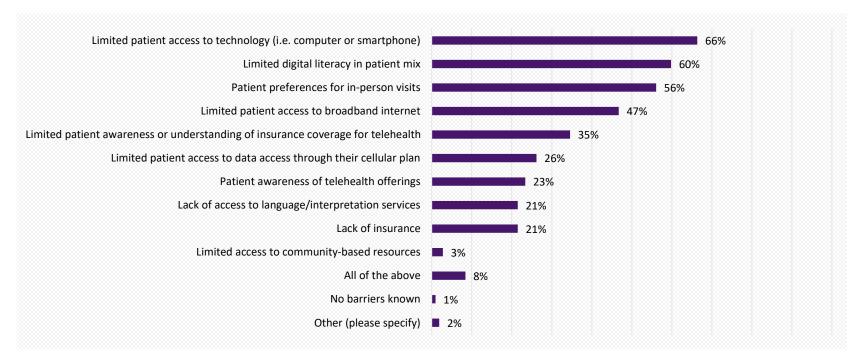
Respondents identify the following as opportunities to improve telehealth workflows in the practice



Q32. Which of the below would support improved telehealth-specific workflows? (select all that apply) N=35



Physicians identify the digital divide as the biggest barrier to virtual care for patients

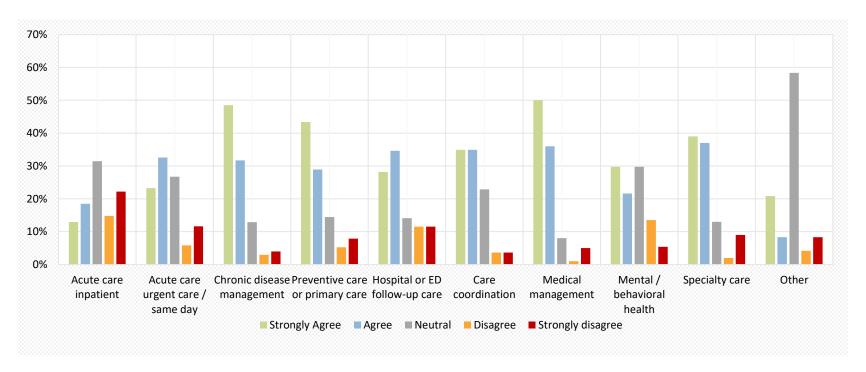


Q33. Which of the following, if any, do you perceive as barriers to your patients using telehealth? (select all that apply) N=107





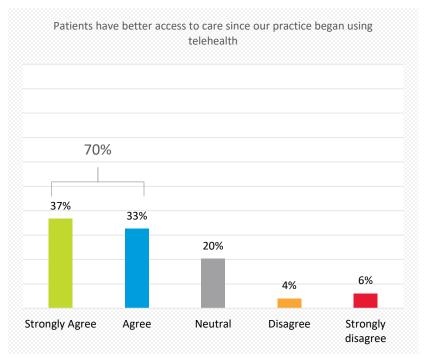
Allergy/Immunology respondents feel telehealth enables them to provide *high-quality care* for many types of services

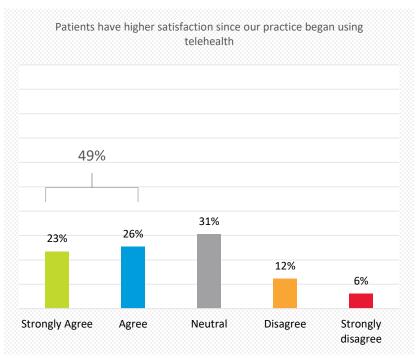


Q34. To what extent do you agree or disagree with the following statement: Telehealth enables me to deliver high-quality care for... (N=102)

College of Allergy, Asihma & Immunology

Seven in ten agree that telehealth offers better access to care, and nearly half agree it contributes to improved patient satisfaction

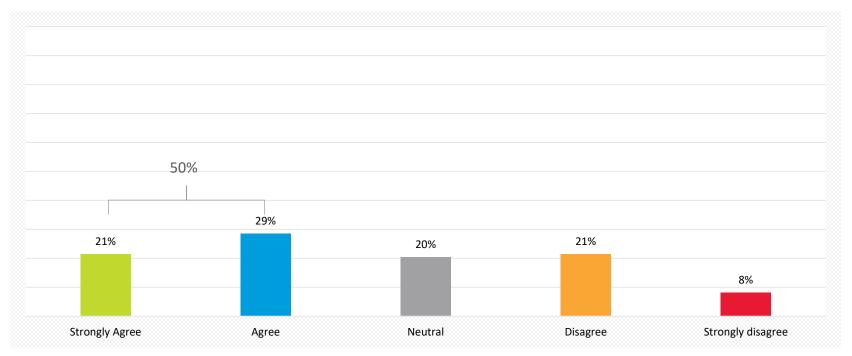




Q35_1. To what extent do you agree or disagree with the following statements? Patients have better access to care since our practice began using telehealth N=98 Q35_2. To what extent do you agree or disagree with the following statements? Patients have higher satisfaction since our practice began using telehealth. N=98



Half of respondents feel telehealth has allowed them to provide more comprehensive quality care

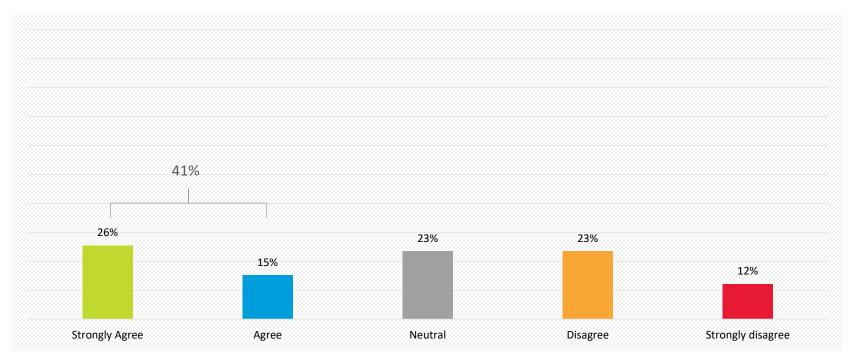


Q35_3. To what extent do you agree or disagree with the following statements? Telehealth has allowed our practice to provide more comprehensive quality care for patients. N=98





41% of respondents agree or strongly agree telehealth has increased their professional satisfaction

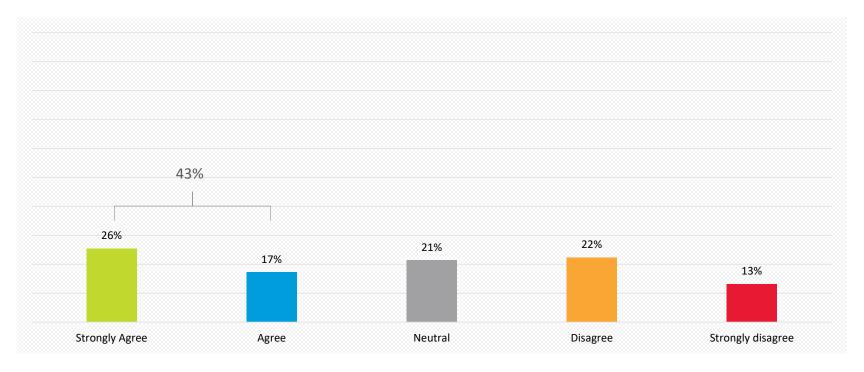


Q35_5.To what extent do you agree or disagree with the following statements? Telehealth has increased my professional satisfaction. N=98





Looking ahead, 43% of respondents are personally motivated to increase use of telehealth

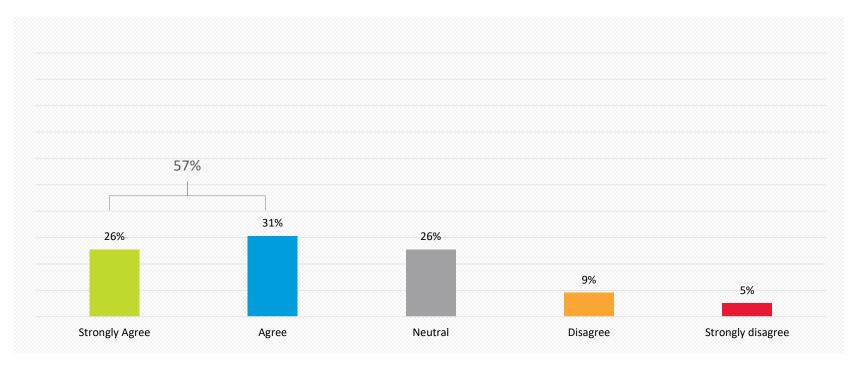


Q35_6. To what extent do you agree or disagree with the following statements? I am personally motivated to increase use of telehealth in my practice. N=98





57% indicate their organizations leadership is motivated to continue the use of telehealth

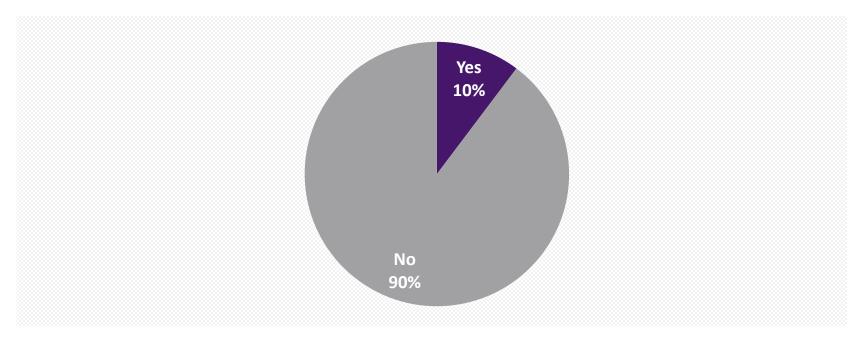


Q35_9: To what extent do you agree or disagree with the following statements? - My organization's leadership is motivated to continue use of telehealth in my practice. N=98





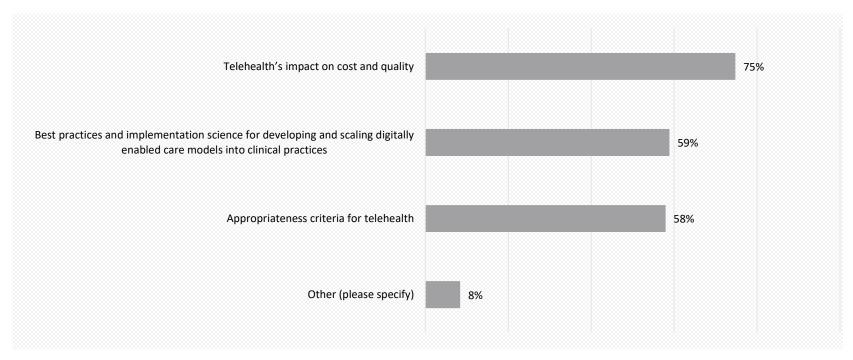
There is a low awareness of telehealth research or best practices, demonstrating a need for better dissemination of resources and information



Q36. Are you aware of any telehealth research or best practices that would be helpful to aggregate and disseminate across the industry to support continued, sustainable use of telehealth? N=107



Respondents indicate there is a need for further research to support telehealth



Q37. What additional research is needed to support telehealth (select all that apply)? N=107

College of Allergy, Asthma & Immunology

Is there any additional insight or thoughts you would like to share regarding the impact of telehealth on you, your practice, or your organization?

Fair and Equitable Payment

"Maintaining reimbursement equal to in-person is paramount"

"Economics will determine if we keep up Telehealth as a big part of the allergy practice. Our patients often drive 150 or more miles to be seen and the convenience is great. My 5 minutes with the patient has at least 10 minutes of nurse/staff time before it, then another 5 to 10 minutes of coordination afterward, so these visits take MORE overhead."

"Overall telehealth pays less than for a comparable office visit, so less motivation to continue or expand"

"Third parties lacked innovation to cover tele visits, which we wanted prior to the pandemic. We are hoping they will keep up support after being forced to allow this innovation."

"Continue appropriate insurance coverage, equal to in-person visit."

Other Feedback

"I think as it is safer to see patients in person, we should eliminate telehealth. May be good for patients who live far from care, but I think patients are taking advantage of telehealth"

"Patients no longer take it seriously. They call in while driving or walking in the street"

"Telehealth is a far inferior form of care and is over utilized. Only a very small minority of my patient visits are appropriate for telehealth, but to remain competitive, we offer it more than should be allowed."

"New patient telehealth is not a good idea. When a good solid physical exam is missing (as in hands on) routinely, quality of care suffers"

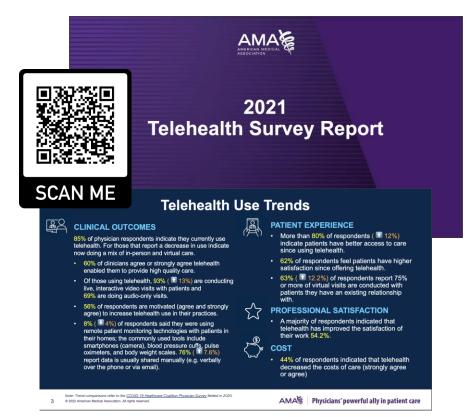
Q39. Is there any additional insight or thoughts you would like to share regarding the impact of telehealth on you, your practice, or your organization?



Telehealth Survey

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For the full report, please visit us at: https://www.ama-assn.org/practice-management/digital/telehealth-resource-center-research-findings



2,200+ survey respondents



Physicians' powerful ally in patient care