Digital Health: Managing your Patients in Clinical Practice

Leigh Anne Calhoun, APRN, MSN, FNP-C, AE-C Family Allergy & Asthma Chattanooga, TN

1



2

Objectives

- After completion of this session the participants will be able to:
- Understand the basics of telemedicine including common terminology, benefits and challenges.
- Evaluate patient relations, privacy, and security concerns when considering telemedicine as an option for patient care.
- Identify ways to improve patient access to care using digital technology.
- Integrate required documentation and billing for reimbursement when considering telemedicine.

Telemedicine Defined

- "The use of technology to deliver health care, health information or health education at a distance."
- The AMA expands this definition to include "face-to-face evaluations, either in person or virtually through real-time audio and video technology".
- The Federation of State Medical Boards states, "generally telemedicine is not an audio-only telephone conversation...it typically involves the application of secure videoconferencing or store-and-forward technology to provide or support healthcare delivery by replicating the interaction of a traditional encounter in person between a provider and a patient"

Elliot, T. et al. (2017). ACAAI Position Paper on the Use of Telemedicine for Allergists. Annals of allergy, asthma & immunology, 119(6), 512-517.

4

Experience with Telemedicine

- Asthma protocol (provider/nurse facilitated)
- Cash pay (follow-up or new patient)
- Tornado
- Covid-19
- Current practice
- Rhinogram
- Patient Portal

5

Benefits of Telemedicine

- Increase access to care
- Decrease travel costs (time and money)
- Decrease wait time to see a specialist (median 39-76 days)
- Continued care during Covid-19 pandemic
- Ability to care for ill patients without exposing clinic (patients/staff) to illness
 Allows continued patient care despite staffing shortages
- May reduce provider burnout (flexible schedule)
- Elliot, T. et al. (2017). ACAAI Position Paper on the Use of Telemedicine for Allergists. Annals of allergy, asthma & immunology, 119(6), 512-517. Hare, N. et al. (2020). Work Group Report: COVID-19: Unmasking telemedicine. The journal allergy clinical immunology in practice, 8(8), 2461-2473.e3.

Benefits of Telemedicine

- Portnoy et al (2016) showed comparable asthma control and parent satisfaction with telemedicine vs in person visits
- May decrease costs to practices/providers for missed appointments which is estimated to cost \$150 billion to U.S. healthcare system
- Patient satisfaction: 95-100% satisfaction with telemedicine when compared to in person visits

Portnoy, J. M., Waller, M., De Lurgio S., & Dinakar C. (2016). Telemedicine is as Effective as In-person Visits for Patients with Asthma. Annals of allergy, asthma, immunology: official publication of the American College of Allergy, Asthma & Immunology, 117(3), 241-245. Portnoy, J. M., Pandya, A., Waller, M. & Hillor, T. (2020). Telemedicine and Immerging Technologies for Health Care in Allergy/Immunology. The journal of allergy clinical immunology, 145(2), 445-454.

7

Physician Survey Telemedicine

- 93% "improves patients' access to care"
 77% "it contributes to more efficient use of time for doctors and patients"
- 71% "helps to reduce healthcare costs"

Portnoy, J. M., Pandya, A., Waller, M. & Elliot, T. (2020). Telemedicine and Emerging Technologies for Health Care in Allergy/Immunology. The journal of allergy clinical immunology. 145(2), 445–454.

8

Telemedicine and Covid-19

- 2016 AMA study showed 15% of specialty practices utilized telemedicine; only 6% of allergy/immunology practices used telemedicine which was the lowest rate among all specialties
 Increase in use of telemedicine in 2020
 Data suggest practices average 23 months to implement digital solutions. This happened in a matter of weeks during PHE
 Telemedicine transitioned from optional to necessary or at times the only option for care.
 Federal and state guidelines lifted
 Requirement for state licensing
 Lifted restrictions on originating and distant sites
 Allowed audio only

- Littled restrictions on originating and distant s
 Allowed audio only
 Allowed for non-HIPPA compliant platforms
 Limited patient direct contact
 Reduced PPE usage in clinics

Hane, N. et al. (2020). Work George Report: COVID-19: Unmasking telemedicine. The journal allergy clinical immunology in practice, 8(9), 2461-2472-e3. Pennaud, Y. & Februory, J. M. (2021). Ten Rules for Implementation of a Telemedicine Program to Care for Patients with Adhma. The journal of allergy clinical immunology in practice, 9(1), 1321.

Ten Rules for Implementation of Telemedicine

- Understand the types of telemedicine and use appropriate ones to treat your patients.
 Stay current with state and federal guidelines
 Choose a platform
 Build the infrastructure

- Market/schedule appointments Obtain informed consent 5. 6.
- Prepare for the visit Patient visit/encounter 7. 8.
- 9. Perform physical example.
 10. Bill for the encounter Perform physical examination
- aud, Y. K. & Portnoy, J. M. (2021). Ten Rules for Implementation of a Telemedicine Program to Care for Patients with Asthma. The nal of allerey clinical immunology in practice. 9(1), 13-21.

10



11

Synchronous Telemedicine

- DTC
 Most commonly used
 Patient at home, school or other location.
 Provider at a distant site (hospital, office, clinic, home)
- FVV Uses a tele presenter/facilitator
- Specific room with necessary equipment
 Facilitator is trained to complete standardized questionnaires, spirometry, use of digital stethoscope/otoscope
- Persaud, Y. K. (2022). Using Telemedicine to Care for the Asthma Patient. Current allergy and asthma reports, 22(4), 43-52. Hare, N. et al. (2020). Work Group Report: COVID-19: Unmasking telemedicine. The journal allergy clinical immunology in pr 8(8), 2461-2472, 341



13



14



- Store and forward (spirometry, ACT, peak flow diaries)
 Text message
 Patient portal

- Persaud, Y. K. (2022). Using Telemedicine to Care for the Asthma Patient. Current allergy and asthma reports, 22(4), 43-52.

Benefits of Asynchronous TM

- Reduction of unnecessary referrals to specialistsBuilds relationship between primary care providers and specialists
- Enables specialist and PCP to build relationship and potential knowledge gains by PCP regarding asthma management.
 Patient and provider do not have to be available at the same time.
- Communicate lab results

Persaud, Y. K. (2022). Using Telemedicine to Care for the Asthma Patient. Current allergy and asthma reports, 22(4), 43-52.

16

Limitations of Asynchronous TM

Many apps created without FDA regulation or guidance from medical community

ud, Y. K. (2022). Using Telemedicine to Care for the Asthma Patient. Current allergy and asthma reports, 22(4), 43-52.

Require dedicated staff to monitor incoming data

17

Persa

Telemedicine Guidelines

- State
- Federal
- Malpractice insurance
- Interstate Medical Licensure Compact (IMLC) allows physician to practice in a state not licensed if part of the compact





20

Choosing a Platform

- Tech support ?
- Does it support increased users?
- Pay per seat on platform or total for entire practice?
- Steps required for patient to access?
- Automatically send email or text links to patient?

Persaud, Y. K. & Portnoy, J. M. (2021). Ten Rules for Implementation of a Telemedicine Program to Care for Patients with Ashma. The journal of allergy clinical immunology in practice, 9(1), 13-21.

Infrastructure

- Training on platform/troubleshooting
- Ensure proper equipment
- Clear guidelines to scheduler/front office staff regarding patient type
- Incorporation into schedule with in-office patients
- Build schedule templates
- Train clinic staff

22





Prepare for the Visit

- Flexibility with technology issues
- Send link (email or text)
- Review chart, labs, imaging etc.
- Office/room HIPPA compliant
- Headset
- Clinic staff contacts patient
 - Confirms location at time of visit
 - Triages patient (medication list, ROS, ACT)
 - Educates patient on how to connect

25

Performing Telemedicine

- HIPAA compliant platform and fashion
 Verify identity
 Obtain consent

- Originating Site/Distant Site Perform Telemedicine visit
 Chief complaint
 HPI

- Review medication usage and dosages

- Physical Exam
 Review labs/imaging
 Plan (upload to portal)
 Prescriptions

26

Physical Examination

- Patient performed VS: temp, weight BP, HR, O2 sat (smart watch), peak flow reading
- Ear exam and lung sounds digital stethoscope/otoscope
- Sinus tenderness patient assisted
- Oropharynx patient's flashlight
- Abdominal self palpation
- Extremities clubbing/cyanosis

Hare, N. et al. (2020). Work Group Report: COVID-19: Unmasking telemedicine. The journal allergy clinical immunology in practice, 8(8), 2461-2473.e3.

Physical Examination

- TABLE IV. Example telemedicine physical examination with E/M billing guidance
 TABLE IV. Example treatmentione payment scattering

 Example physical examination:

 VS: 7.95.5 F.W. 180 pears healthy, alert, cooperative, oriented, and in no acute distress

 Head: Normocephalic and arramatic

 Eyes: Conjunctivationers healthy, alert, cooperative, oriented, and in no acute distress

 Head: Normocephalic and arramatic

 Eyes: Conjunctivationers clear, without reduess or drainage

 None: External nose normal, no drainage

 Pulmonary/cheat: No tachymea, no retractions, no cyanosis

 Neurological: Grossly normal without focal findings based on what could be seen

 Skin: Skin color normal. No rashes or lesions visible

 Psychiatric: Normal mood and affect. Behavior is normal

Hare, N. et al. (2020). Work Group Report: COVID-19: Unmasking telemedicine. The journal allergy clinical immunology in practice, 8(8), 2461-2473.e3.

28



29

Billing/Reimbursement

- "Telemedicine coverage and reimbursement not federally regulated."
- "...inconsistent coverage and reimbursement policies among the various insurers can lead to confusion, incorrect coding and billing, and denied claims"
 Coverage Parity
- Coverage rating
 Requirement that telemedicine be covered any time in-person visits are covered.
 Payment Parity
 Requirement that the amount of reimbursement be the same as in-person visits.
 Cash pay options for convenience \$50/\$100
 Some platforms allow provider to request a payment at beginning of visit

Elliot, T. et al. (2017). ACAAI Position Paper on the Use of Telemedicine for Allergists. Annals of allergy, asthma & immunology, 119(6), 312-317. Haw, N. et al. (2020). Work Group Report: COVID-19: Unmasking Ielemedicine. The journal allergy clinical immunology in practice, 400, 1461-2473.e3.

New patient CPT code	Total face-to-face time (min)	Outpatient consultation CPT code	Total face-to-face time (min)	Established patient CPT code	Total face-to-face time (min)
99201	10	99241	15	99211	5
99202	20	99242	30	99212	10
99203	30	99243	40	99213	15
99204	45	99244	60	99214	25
99205	60	99245	80	99215	40
CPT, Current proce	edural terminology.				

31



32

Resources

- https://www.cchpca.org/telehealth-resource-centers/
- https://www.cms.gov/newsroom/fact-sheets/medicare-telemedicinehealth-care-provider-fact-sheet
- https://www.fsmb.org/siteassets/advocacy/pdf/states-waivinglicensure-requirements-for-telehealth-in-response-to-covid-19.pdf
 http://www.americantelemed.org/ata-accreditation

References

- Ellist, T. et al. (2017). ACAAI Position Paper on the Use of Telemedicine for Allergists. Annals of allergy, asthma & immunology. 119(6), 512-517.
- Lindon, Li Markan, Li Markan, Jandara, K. K. & Kantov, J. M. 2013. The Rules for Implementation of a Telemedicine State of a telemedicine state of a telemedicine state of a telemedicine. The journal and a largery clinical immunology. 117(2), 127-138.
 Portony, J. M. & Waller, M. D. E. Lurgio, S. & Dinakar, C. (2014). Telemedicine is an Effective as In person Visits for Faitonts with Asthma. Annals of allergy, asthma, immunology, 117(2), 2211-224.
 Portony, J. M. & Waller, M. D. E. Lurgio, S. & Dinakar, C. (2014). Telemedicine is an Effective as In person Visits for Faitonts with Asthma. Annals of allergy, asthma, immunology, 117(2), 2211-224.
 Portony, J. M. & Wu, A. C. (2014). The General case as Effective as Ling and Care? The journal of allergy clinical immunology, 117(2), 2211-224.
 Portony, J. M. & Wu, A. C. (2014). The General case as Effective as Ling and Care? The journal of allergy clinical immunology, 117(2), 2211-224.
 Portony, J. M. & Wu, A. C. (2014). Telemedicine as Effective as Ling and Care? The journal of allergy clinical immunology in practice, 7(1), 127-218.
 Portony, J. M. & Waller, M. & Elliot, T. (2004). Telemedicine and Emerging Technologies for Health Care in Allergy/Immunology. The journal of allergy clinical immunology. 143(2), 43-434.