

## Telepharmacy

These resources may be helpful to utilize as reading material for learners. Each cited article provides background information on various services related to telepharmacy.

### Learner's resources

#### [ASHP Telehealth Resource Center](#)

- This ASHP resource center includes a number of valuable background reading materials and tools for understanding and appropriately utilizing telehealth in patient care.
- Key Resource Center sections for learner review are outlined below:
  - [Technology](#)
  - [Telehealth 101](#)
  - [Telehealth Practice Resources](#)

#### [AJHP Theme Issue on Telehealth](#)

- This AJHP theme issue explores virtual clinical pharmacy practices, telehealth utilization, and telehealth innovations.

#### [ASHP Statement on Telepharmacy](#)

- ASHP advocates that telepharmacy be applied to suitable functions of pharmacy operations and patient care to improve patient outcomes, expand access to healthcare, and enhance patient safety.

Badowski ME, Walker S, Bacchus S, et al. Providing comprehensive medication management in telehealth. *Pharmacotherapy*. 2018;38(2):e7-e16.: [doi.org/10.1002/phar.2071](https://doi.org/10.1002/phar.2071)

Shane-McWhorter L, Lenert L, Petersen M, et al. The Utah remote monitoring project: improving health care one patient at a time. *Diabetes Technol Ther*. 2014;16(10):653-660. doi:[10.1089/dia.2014.0045](https://doi.org/10.1089/dia.2014.0045)

Poudel A, Nissen L. Telepharmacy: a pharmacist's perspective on the clinical benefits and challenges. *Integr Pharm Res Pract*. 2016;5:75-82. doi:[10.2147/IPRP.S101685](https://doi.org/10.2147/IPRP.S101685)

Haney T, Kott K, Fowler C. Telehealth etiquette in home healthcare: the key to a successful visit. *Home Healthcare Now*. 2015;33(5):254-259. doi:[10.1097/NHH.0000000000000228](https://doi.org/10.1097/NHH.0000000000000228)

M.E. Reed et al. Patient characteristics associated with choosing a telemedicine visit vs office visit with the same primary care clinicians JAMA Netw Open (2020).  
<https://jamanetwork.com/journals/jamanetworkopen/fullarticle/2767244>

## Inclusion in Pharmacy Didactic Curriculum

Frenzel J, Porter A. The Need to Educate Pharmacy Students in Telepharmacy and Telehealth. *Am J Pharm Educ.* 2021;85(8):8566. doi:[10.5688/ajpe8566](https://doi.org/10.5688/ajpe8566)

- Tele-education topics may include telepharmacy and telehealth, audio and visual technologies, etiquette, law, reimbursement, and privacy and confidentiality.

Dickinson D. Please take a seat in the virtual waiting room: Telepharmacy education in the pharmacy curriculum. *Curr Pharm Teach Learn.* 2022 Feb;14(2):127-129. doi: [10.1016/j.cptl.2021.11.034](https://doi.org/10.1016/j.cptl.2021.11.034). Epub 2021 Dec 27. PMID: 35190151.

- This commentary highlights opportunities to incorporate telepharmacy training into the current pharmacy curricula.

Beal J, Weber Z, Isaacs A, Illingworth Plake K, Zillich A, Woodyard J. Pharmacy student preferences and perceptions of in-person versus video evaluations in pharmacy skills-based laboratory courses. *Am J Pharm Educ.* 2020;84(11):7976. doi:[10.5688/ajpe7976](https://doi.org/10.5688/ajpe7976)

- This study highlights the need to reduce the technological issues associated with video evaluations and improve the written feedback provided to students.

Accreditation standards and key elements for the professional program in pharmacy leading to the doctor of pharmacy degree ("Standards 2025") (11 August 2021). <https://www.acpe-accredit.org/>

## Inclusion in Pharmacy Experiential Curriculum

Bautista CA, et al. Development of an interprofessional rotation for pharmacy and medical students to perform telehealth outreach to vulnerable patients in the COVID-19 pandemic. *J Interprof Care.* 2020 Sep-Oct;34(5):694-697. doi: [10.1080/13561820.2020.1807920](https://doi.org/10.1080/13561820.2020.1807920).

- All students successfully increased their knowledge of their own and others' professional roles and demonstrated interprofessional communication and collaboration through telehealth.

Jennifer Danielson, PharmD, MBA, et al. Essential Elements for Core Required Advanced Pharmacy Practice Experiences. *Am J Pharm Educ.* 2019 May; 83(4): 6865 doi: [10.5688/ajpe6865](https://doi.org/10.5688/ajpe6865)

- The resulting essential elements presented here can be used to guide faculty and staff within experiential education programs in their quality assurance processes in ensuring students receive consistent experience as part of their education prior to graduation.

Skoy E, Eukel H, Frenzel J, Schmitz T. Performance and perceptions: evaluation of pharmacy students' consultation via telepharmacy. *J Pharm Tech.* 2015;31(4):155-160. doi:[10.1177/8755122514568123](https://doi.org/10.1177/8755122514568123)

- Pharmacy education standards highlight the importance of effective communication skills and the use of technology to provide patient care.

Begley K, O'Brien K, Packard K, et al. Impact of interprofessional telehealth case activities on students' perceptions of their collaborative care abilities. *Am J Pharm Educ.* 2019;83(4):6880. doi:[10.5688/ajpe6880](https://doi.org/10.5688/ajpe6880)

- Implementation of interprofessional cases using telehealth technology is an effective way for pharmacy schools to incorporate IPE into their curriculum.