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Chronic disease care -- guidelines and policy -- business/implementation planning -- outcome reviews -- studies/demonstrations	Wound care & Post-operative Behavioral health Other applications -- self-management -- cancer -- direct-to-consumer -- home dialysis -- maternal/neonatal -- neurological -- palliative/hospice care -- rehabilitation -- sleep disorders
Heart disease -- outcome reviews -- studies/demonstrations	
Diabetes -- outcome reviews -- studies/demonstrations	
Lung disease -- outcome reviews -- studies/demonstrations	Technology

Home-based chronic disease care

--guidelines, and policy discussions

- American Telemedicine Association. State Medicaid Best Practice - State Medicaid best practice - remote patient monitoring and home video visits. ATA State Policy Toolkit, July 2013 [htm](#)
- ATA Home Telehealth Special Interest Group. Home Telehealth Toolkit. American Telemedicine Association, 2013 [htm](#) (requires membership—ask NETRC about copies)
- Broderick A, Lindeman D. Scaling telehealth programs: Lessons from early adopters. The Commonwealth Fund. January 2013 [pdf](#)
- Center for Connected Health Policy. State telehealth laws and reimbursement policies. CCHP, Spring 2019 [pdf](#)
- Center for Connected Health Policy. Telehealth private payer laws: Impact and issues. Milbank Memorial Fund, August 2017 [pdf](#)
- Center for Connected Health Policy. Telehealth policy barriers. CCHP Fact Sheet, February, 2019 [pdf](#)
- Centers for Medicare & Medicaid Services. Connected Care Toolkit: Chronic care management resources for health care professionals and communities. CMS, Department of Health and Human Services, 2018 [pdf](#)
- Centers for Medicare & Medicaid Services. Chronic care management services. CMS, Department of Health and Human Services, 2016 [pdf](#)
- Centers for Medicare & Medicaid Services. Care Management Services in Rural Health Clinics (RHCs) and Federally Qualified Health Centers (FQHCs)--Frequently Asked Questions. CMS, Department of Health and Human Services, December 2018 [pdf](#)
- Doty CA. Delivering care anywhere, anytime: Telehealth alters the medical ecosystem. Forrester Consulting and California Healthcare Foundation, 2008 [htm](#)
- El-Miedany Y. Telehealth and telemedicine: how the digital era is changing standard health care. *Smart Homecare Tech. TeleHealth 4*: 43-51, 2017 [htm](#)
- Fazzi Associates. National study on the future of technology & telehealth in home care. Co-sponsored by National Association for Home Care & Hospice and Philips Home Healthcare Solutions, 2008 [pdf](#)
- Forum on Aging, Disability, and Independence. The future of home health care: workshop summary. National Academies Press, 2015 [htm](#)
- Lacktman NM. Medicare's new remote patient monitoring reimbursement: what providers need to know. *Health Care Law Today*, February 12, 2018 [htm](#)
- Lacktman NM. Medicare's new virtual care codes: a monumental change and validation of asynchronous telemedicine. *National Law Review*, July 18, 2018 [htm](#)
- LeadingAge Center for Aging Services Technologies. Telehealth and remote patient monitoring for long-term and post-acute care: A primer and provider selection guide. LeadingAge CAST Report, 2014 [pdf](#)

Lund PS. Integration of mobile health applications and devices into practice. Report 6 of the Council on Medical Service (I-16), American Medical Association, 2016 [pdf](#)

Medicare Payment Advisory Commission. Telehealth services and the Medicare program. Chapter 8 in Report to the Congress: Medicare and the Health Care Delivery System. Department of Health and Human Services, June 2016 [pdf](#)

Northwest Regional Telehealth Resource Center. Remote Patient Monitoring: An NRTRC Toolkit. NRTRC [pdf](#)

President's Council of Advisors on Science and Technology. Independence, technology, and connection in older age: Report to the President. PCAST, Executive Office of the President, March 2016 [pdf](#)

Quashie RY, Lerman AF. 50-State Survey of Telemental/Telebehavioral Health. Epstein, Becker & Green, PC, May 2016 [htm](#)

Roth D, Zekovic-Roth S, Yasutake M, Richardson M. Telehealth @ Home: A guidebook for people who will receive home-based telehealth services. Mind & Body Works, Inc., 2016 [pdf](#)

Shih J, Portnoy J. Tips for seeing patients via telemedicine. *Curr. Allergy Asthma Rep.* 18(10):50, 2018 [PubMed](#)

Thomas L, Capistrant G. State telemedicine gaps analysis: Coverage and reimbursement. American Telemedicine Association, February 2017 [htm](#)

Trout KE, Rampa S, Wilson FA, Stimpson JP. Legal mapping analysis of state telehealth reimbursement policies. *Telemed. e-Health* 23(10):805-814, 2017 [PubMed](#)

Verizon. Telehealth monitoring & mobile tech: improving outcomes, reducing admissions. *Fierce Mobile Healthcare*, May 2012 [htm](#) (requires free registration)

Yocom CL Telehealth and remote patient monitoring use in Medicare and selected federal programs. GAO Report to Congressional Committees, U.S. Government Accountability Office, April, 2017 [htm](#)

[RETURN TO TOPICS](#)

--business and implementation planning

ACG Multimedia. Instructions and background on using the telehealth ROI estimator. Advanced Computer Graphics, Inc. [pdf](#)

ATA Business and Finance Special Interest Group. Telehealth project financial projections. ATA, 2006 [xls](#)

ATA Business and Finance Special Interest Group. Telemedicine break-even financial simulation. ATA, 2006 [htm](#)

ATA Business and Finance Special Interest Group. Business 101: Utilizing an ROI model to evaluate telemedicine growth strategies. ATA Webinar, Feb. 2011 [htm](#)

Barker G, Burgiss S, Puskin D, Antoniotti N, et al. Business plan template: A document to assist in the business and strategic planning of telehealth programs. American Telemedicine Association. Business and Finance SIG, 2008 [htm](#). Budgeting template: [htm](#)

Bass Connections Medicaid Reform Program. North Carolina Medicaid reform: A bipartisan path forward. Duke University, April 2017 [pdf](#)

Boling PA, Chandekar RV, Hungate B, et al. Improving outcomes and lowering costs by applying advanced models of in-home care. *Cleveland Clin. J. Med.* 80 (Suppl 1):eS7-14, 2013 [htm](#)

Broderick A. Partners HealthCare: Connecting heart failure patients to providers through remote monitoring. Case Studies in Telehealth Adoption, Commonwealth Fund, 2013 [pdf](#)

Caron MA, Chelico J, Ganguly N, Kvedar J, Rubenstein, A, Sands D. Telehealth rising: practical insights and strategies for success. Healthcare Informatics and Institute for Health Technology Transformation, 2016 [htm](#) (requires free registration)

Center for Technology and Aging. Measuring return on investment of remote patient monitoring: Developing the model. CTA White Paper, 2014 [pdf](#)

Center for Technology and Aging. Determining the ROI from remote patient monitoring: A primer. ROI Brief, Fall 2011 [pdf](#)

Chen S, Cheng A, Mehta K. A review of telemedicine business models. *Telemed. e-Health* 19(4):287-297, 2013 [htm](#)

Chiron Health. Telemedicine revenue calculator. Chiron Health, Inc., [htm](#) (requires a free registration)

Cullen R, Howell B, Martin G. Assessing the return on investment in health IT: An exploration of costs and benefits in relation to the remote monitoring of chronic diseases. *Health Care Inform.Rev. Online* 16(1): 2-7, 2012 [pdf](#)

Deloitte Development LLC.. Virtual health: Can it help your organization create a transformational culture while bending the cost curve? White paper, 2014 [pdf](#)

Eberwein J. Telehealth ROI: The business case. Presentation at Second Annual Georgia Partnership for Telehealth Summit, December 2015 [pdf](#)

Ernst and Young, LLP. Shaping your telehealth strategy: Leveraging telehealth technologies to lower costs, improve quality outcomes and enhance the patient experience. EY, LLP, 2014 [htm](#)

Fanberg H, Malkary G. RPM: Is it all that it is cracked up to be? Presentation at HIMSS Annual Conference and Exhibition, 2017 [pdf](#)

- Foster MA, Berman M, Frazier R. Telehealth business models: An assessment tool for telehealth business opportunities in remote rural communities. Institute of Social and Economic Research, Univ. of Alaska at Anchorage, 2006 [htm](#) Spreadsheet tool: [xls](#)
- Frost & Sullivan, Inc. Improving home health care: How mobile technology can boost outcomes, profits, and compliance. White paper, 2015 [pdf](#)
- Griffin KM, Gorman J. Readmissions management through partnerships: physicians–hospitals–post-acute providers. Health Research & Education Trust of New Jersey New Jersey Hospital Association, Health Dimensions Group, 2011 [pdf](#)
- Health Numeric, Inc. Choosing a remote patient monitoring company and estimating return on investment. White paper, 2014 [pdf](#)
- HealthSense, Inc. Remote monitoring: resolving challenges of higher-acuity populations: a case study featuring Christian Care Centers. Webinar slides, June 24, 2014 [pdf](#)
- Herzog R. 10 ways remote patient monitoring saves money. *HIT Consultant*, April 6, 2015 [htm](#)
- Kimble C. Business models for e-health: Evidence from ten case studies. *Global Bus. Org. Excellence* 34 (4):18-30, 2015 [htm](#)
- Landers S, Madigan E, Leff B, et al. The future of home health care: a strategic framework for optimizing value. *Home Health Care Manag. Pract.* 28(4):262-278, 2016 [htm](#)
- LeadingAge Center for Aging Services Technologies. Telehealth and remote patient monitoring for long-term and post-acute care: A primer and provider selection guide. LeadingAge CAST Report, 2017 [htm](#)
- Liu SX, Xiang R, Lagor C, Liu N, Sullivan K. Economic modeling of heart failure telehealth programs: when do they become cost saving? *Int. J. Telemed. Appl.* 2016:3289628, 2016 [htm](#)
- Maeng DD, Starr AE, Tomcavage JF, Sciandra J, Salek D, Griffith D. Can telemonitoring reduce hospitalization and cost of care? A health plan's experience in managing patients with heart failure. *Popul. Health Manag.* 17(6):340-344, 2014 [htm](#)
- Medicaid Rates for Home Health Care Working Group. Survey of states providing coverage for in-home telemonitoring services. Connecticut General Assemble, Human Services Committee, November 2015 [pdf](#)
- Michaud TL, Zhou J, McCarthy MA, Siahpush M, Su D. Costs of home-based telemedicine programs: a systematic review. *Int. J. Technol. Assess. Health Care* [epub ahead of print], July 2018 [PubMed](#)
- Milaster C. Your telehealth business plan: Don't leave your clinic without it—Webinar slides. Ingenium Telehealth, Inc., 2015 [pdf](#)
- Mistry H, Garnvwa H, Oppong R. Critical appraisal of published systematic reviews assessing the cost-effectiveness of telemedicine studies. *Telemed. e-Health* 20(7): 609-618, 2014 [htm](#)
- MobileHelp, Inc. The future of home health is here: how home health agencies can bridge the care gap for ACOs and hospital networks. White paper, 2016 [htm](#)
- Osborne TF, Arkwright BT, Reich JJ, Russo, J. A comprehensive overview of home telehealth. In: D. Chau, T. Osborne (eds.), *Application of Technology to the Care of the Older Adult*, Springer Publishing, NY 2017 [pdf](#)
- Peretz D, Arnaert A, Ponzoni N. Determining the cost of implementing and operating a remote patient monitoring programme for the elderly with chronic conditions: A systematic review of economic evaluations. *J. Telemed. Telecare* [epub ahead of print] Sept. 2016 :[PubMed](#)
- Pershing Yoakley & Associates, PC Providing and billing Medicare for Chronic Care Management Services (and other fee-for-service population health management services). PYA, 2017 [pdf](#)
- Radhakrishnan K, Xie B, Berkley A, Kim M. Barriers and facilitators for sustainability of tele-homecare programs: a systematic review. *Health Serv. Res.* 51(1):48-75, 2016 [htm](#)
- Radhakrishnan K, Xie B, Jacelon CS. Unsustainable home telehealth: A Texas qualitative study. *Gerontologist*.56(5):830-840, 2016 [pdf](#)
- Reach Health, Inc. 2017 U.S. Telemedicine Industry Benchmark Survey, April 2017 [pdf](#)
- Sanyal C, Stolee P, Juzwishin D, Huserreau D. Economic evaluations of eHealth technologies: A systematic review. *PLoS One* 13(6):e0198112, 2018 [htm](#)
- Sarasohn-Kahn J. The connected patient: Charting the vital signs of remote health monitoring. California Healthcare Foundation, Feb. 2011 [pdf](#)
- Sawyer D. 5 ways to optimize your remote patient-monitoring efforts. *Hospitals & Health Networks*, November 12, 2015 [htm](#)
- Segato F, Masella C. Telemedicine services: How to make them last over time. *Health Pol. Technol.* 6(3): 268–278, 2017 [PubMed](#)
- Slotwiner D, Wilkoff B. Cost efficiency and reimbursement of remote monitoring: a US perspective. *Europace* 15 (Suppl 1):i54-i58, 2013 [htm](#)
- Spinsante S. Home telehealth in older patients with heart failure – costs, adherence, and outcomes. *Smart Homecare Technol. TeleHealth* 2:93-104, 2014 [htm](#)
- Stratis Health Systems. Business case: total cost of ownership and return on investment. Health Information Technology Toolkit for Home Health Agencies, Aging Services of Minnesota, 2011 [htm](#) –spreadsheet tool: [xls](#)

Stratis Health Systems. Health Information Technology Toolkit for Home Health Agencies. Aging Services of Minnesota, 2013 [htm](#)

Stratis Health Systems. Optimization strategies for telehealth and home monitoring. Aging Services of Minnesota, 2013 [doc](#)

Stratis Health Systems and Key Health Alliance. Remote patient monitoring. Chapter 6 in: Community Based Care Coordination Toolkit. Aging Services of Minnesota, 2015 [pdf](#)

National Telehealth Technology Assessment Resource Center. Home telehealth - Deployment and support. TTC, 2011 [htm](#)

Wade VA, Taylor AD, Kidd MR, Carati C. Transitioning a home telehealth project into a sustainable, large-scale service: a qualitative study. *BMC Health Serv. Res.* 16(1):183, 2016 [htm](#)

Xin Liu S, Xiang R, Lagor C, Liu N, Sullivan K. Economic modeling of heart failure telehealth programs: when do they become cost saving? *J. Telemed. Applic.* 2016: ID 3289628, 2016 [htm](#)

[RETURN TO TOPICS](#)

--outcomes reviews

Bashshur RL, Shannon GW, Smith BR. The empirical foundations of telemedicine interventions for chronic disease management. *Telemed. e-Health* 20(9):769-800, 2014 [htm](#)

Bertoncello C, Colucci M, Baldovin T, Buja A, Baldo V. How does it work? Factors involved in telemedicine home-interventions effectiveness: A review of reviews. *PLoS One* 13(11):e0207332, 2018 [htm](#)

Center for Connected Health Policy. Literature review: The Triple Aim and home telehealth for patients with chronic disease. National Telehealth Policy Resource Center, August, 2013 [pdf](#)

Center for Connected Health Policy. Remote patient monitoring research catalogue and quality assessment. National Telehealth Policy Resource Center, Jan. 2015 [pdf](#)

Davis MM, Freeman M, Kaye J, Vuckovic N, Buckley DI. A systematic review of clinician and staff views on the acceptability of incorporating remote monitoring technology into primary care. *Telemed. e-Health* 20(5):428-438, 2014 [htm](#)

de Jong CC, Ros WJ, Schrijvers G. The effects on health behavior and health outcomes of Internet-based asynchronous communication between health providers and patients with a chronic condition: a systematic review. *J. Med. Internet Res.* 16(1):e19, 2014 [htm](#)

Dinesen B, Nonnecke B, Lindeman D, et al. Personalized telehealth in the future: a global research agenda. *J. Med. Internet Res.* 18(3):e53, 2016 [htm](#)

Elbert NJ, van Os-Medendorp H, van Renselaar W, et al. Effectiveness and cost-effectiveness of ehealth interventions in somatic diseases: a systematic review of systematic reviews and meta-analyses. *J. Med. Internet Res.* 16(4):e110, 2014 [htm](#)

Gordon LAN. Assessment of smart watches for management of non-communicable diseases in the ageing population: a systematic review. *Geriatrics* 3(3): pii: E56, 2018 [htm](#)

Gorst SL, Armitage CJ, Brownsell S, Hawley MS. Home telehealth uptake and continued use among heart failure and chronic obstructive pulmonary disease patients: a systematic review. *Ann. Behav. Med.* 48(3):323-336, 2014 [htm](#)

Hamine S, Gerth-Guyette E, Faulx D, Green BB, Ginsburg AS. Impact of mHealth chronic disease management on treatment adherence and patient outcomes: a systematic review. *J. Med. Internet Res.* 17(2):e52, 2015 [htm](#)

Hanlon H, Daines L, Campbell C, et al. Telehealth interventions to support self-management of long-term conditions: a systematic metareview of diabetes, heart failure, asthma, chronic obstructive pulmonary disease, and cancer. *J. Med. Internet Res* 19(5):e172, 2017 [htm](#)

Hill RD, et al. Review of Veterans Health Administration telemedicine interventions. *Amer. J. Manag. Care* 16(12 suppl. HIT):e302-310, 2010. [pdf](#)

Iribarren SJ, Cato K, Falzon L, Stone PW. What is the economic evidence for mHealth? A systematic review of economic evaluations of mHealth solutions. *PLoS One* 12(2):e0170581, 2017 [htm](#)

Jones A, Hedges-Chou J, Joanna Bates J, et al. Home telehealth for chronic disease management: selected findings of a narrative synthesis. *Telemed. e-Health* 20(4): 346-380, 2014 [htm](#)

Kitsiou S, Paré G, Jaana M. Systematic reviews and meta-analyses of home telemonitoring interventions for patients with chronic diseases: a critical assessment of their methodological quality. *J. Med. Internet Res.* 15(7):e150, 2013 [htm](#)

Kvedar JC, Fogel AL, Elenko E, Zohar D. Digital medicine's march on chronic disease. *Nat. Biotechnol.* 34(3):239-246, 2016 [htm](#)

Osborne TF, Arkwright BT, Reich JJ, Russo, J. A comprehensive overview of home telehealth. In: D. Chau, T. Osborne (eds.), *Application of Technology to the Care of the Older Adult*, Springer Publishing, NY 2017

Paré G, Moqadem K, Pineau G, St-Hilaire C. Clinical effects of home telemonitoring in the context of diabetes, asthma, heart failure and hypertension. *J. Med. Internet Res.* 12(2):e21, 2010 [htm](#)

- Radhakrishnan K, Xie B, Berkley A, Kim M. Barriers and facilitators for sustainability of tele-homecare programs: a systematic review. *Health Serv. Res.* 51(1): 48-75, 2016 PubMed
- Rojas SV, Gagnon M-P. A systematic review of the key indicators for assessing telehomecare cost-effectiveness. *Telemed. e-Health* 14(9): 896–904, 2008 [htm](#)
- Sarasohn-Kahn J. The connected patient: Charting the vital signs of remote health monitoring. California Healthcare Foundation, Feb. 2011 [htm](#)
- Simblett S, Greer B, Matcham F, et al. Barriers to and facilitators of engagement with remote measurement technology for managing health: systematic review and content analysis of findings. *J. Med. Internet Res.* 20(7):e10480, 2018 [htm](#)
- Stachura ME, Khasanshina EV. Telehomecare and remote monitoring: An outcomes review. Advanced Medical Technology Association, 2007 [pdf](#)
- Totten AM, Hansen RN, Wagner J, et al. Telehealth for acute and chronic care consultations. Comparative Effectiveness Review No. 216, Agency for Healthcare Research and Quality; April 2019 [pdf](#)
- Totten AM, Womack DM, Eden KB, et al. Telehealth: Mapping the evidence for patient outcomes from systematic reviews. Agency for Healthcare Research and Quality Technical Brief No. 26.; June 2016 [htm](#)
- Whitehead L, Seaton P. The effectiveness of self-management mobile phone and tablet apps in long-term condition management: a systematic review. *J. Med. Internet Res.* 18(5):e97, 2016 [htm](#)
- Wootton R. Twenty years of telemedicine in chronic disease management – an evidence synthesis. *J Telemed Telecare.* 18(4): 211–220, 2012. [htm](#)

[RETURN TO TOPICS](#)

--research and demonstrations

- Abel R. MaineHealth: Development, implementation, and success in telehealth for home care. *Telemed. Med. Today* 2(5), 2017 [pdf](#)
- Abel R. MaineHealth Care at Home: Exploring details of the MaineHealth telemedicine program. *Telemed. Med. Today* 2(5), 2017 [pdf](#)
- Abel R. TMT interview: Robert Abel, MaineHealth Care at Home. *Telemed. Med. Today* 2(5), 2017 [pdf](#)
- American Hospital Association. Telehomecare monitoring services: Eastern Maine Healthcare Systems, VNA Home Health Hospice. AHA Members in Action Case Study, April 2018 [pdf](#)
- Bardsley M, Steventon A, Doll H. Impact of telehealth on general practice contacts: findings from the Whole Systems Demonstrator cluster randomised trial. *BMC Health Serv Res.* 13:395, 2013 [htm](#)
- Bond CS. Telehealth as a tool for independent self-management by people living with long term conditions. Pp. 1-6 in: AJ Maeder M Maurice, RE Scott, *Global Telehealth 2014*. Studies in Health Technology Informatics Volume 206, IOS Press, 2014 [htm](#)
- Bower P, Cartwright M et al. A comprehensive evaluation of the impact of telemonitoring in patients with long-term conditions and social care needs: protocol for the Whole Systems Demonstrator cluster randomised trial. *BMC Health Serv. Res.* 11: 184, 2011. [htm](#)
- Bowles KH, Hanlon AL, Glick HA, Naylor MD, et al. Clinical effectiveness, access to, and satisfaction with care using a telehomecare substitution intervention: a randomized controlled trial. *Int. J. Telemed. Appl.* 2011: 540138, 2011. [htm](#)
- Bowles KH, Holland DE, Horowitz DA. A comparison of in-person home care, home care with telephone contact and home care with telemonitoring for disease management. *J Telemed Telecare* 15(7):344-350, 2009. [htm](#)
- Cady R, Kelly A, Finkelstein S. Home telehealth for children with special health-care needs. *J. Telemed. Telecare* 14(4):173-177, 2008 [htm](#)
- Cartwright M, Hirani SP, Rixon L, et al. Effect of telehealth on quality of life and psychological outcomes over 12 months (Whole Systems Demonstrator telehealth questionnaire study): nested study of patient reported outcomes in a pragmatic, cluster randomised controlled trial. *Brit. Med. J.* 346:f653, 2013 [htm](#)
- Castillo DJ, Myers JB, Mocko J, Beck EH. Mobile integrated healthcare: preliminary experience and impact analysis with a Medicare Advantage population. *J. Health Econ. Outcomes Res.* 4(2):172-187, 2016 [pdf](#)
- Celler B, Argha A, Varnfield M, Jayasena R. Patient adherence to scheduled vital sign measurements during home telemonitoring: analysis of the intervention arm in a before and after trial. *JMIR Med. Inform.* 6(2):e15, 2018 [pdf](#)
- Celler B, Varnfield M, Nepal S, Sparks R, Li J, Jayasena R. Impact of at-home telemonitoring on health services expenditure and hospital admissions in patients with chronic conditions: before and after control intervention analysis. *JMIR Med. Inform.* 5(3):e29, 2017 [htm](#)
- Chen HF, Kalish MC, Pagan JA. Telehealth and hospitalizations for Medicare home healthcare patients. *Amer. J. Manag. Care.* 17(6 Spec No.):e224-230, 2011 [htm](#)
- Clarke M, Fursse J, Connolly N, Sharma U, Jones R. Evaluation of the National Health Service (NHS) Direct Pilot Telehealth Program: Cost-effectiveness analysis. *Telemed. e-Health* [epub ahead of print], July 2017 [PubMed](#)

- Cottrell E, Cox T, O'Connell P, Chambers R. Implementation of simple telehealth to manage hypertension in general practice: a service evaluation. *BMC Fam. Pract.* 16:83, 2015 [htm](#)
- Dang S, Ruiz DI, Klepac L, et al. Key characteristics for successful adoption and implementation of home telehealth technology in Veterans Affairs home-based primary care: an exploratory study. *Telemed. e-Health* 25(4):309-318, 2019 [PubMed](#)
- Darkins A, Kendall S, Edmonson E, Young M, Stresel P. Reduced cost and mortality using home telehealth to promote self-management of complex chronic conditions: a retrospective matched cohort study of 4,999 veteran patients. *Telemed. e-Health* 21(1):70-76, 2015 [PubMed](#)
- Darkins A, Ryan P, Kobb R, Foster L, Edmonson E, Wakefield B, Lancaster AE. Care Coordination/Home Telehealth: the systematic implementation of health informatics, home telehealth, and disease management to support the care of veteran patients with chronic conditions. *Telemed. e-Health* 14(10):1118-1126, 2008 [htm](#)
- Darkins A. Changing the location of care: management of patients with chronic conditions in Veterans Health Administration using care coordination/home telehealth. *J. Rehabil. Res. Dev.* 43(4):vii-xii, 2006 [htm](#)
- Davis C, Bender M, Smith T, Broad J. Feasibility and acute care utilization outcomes of a post-acute transitional telemonitoring program for underserved chronic disease patients. *Telemed. eHealth* 21(9):705-713, 2015 [htm](#)
- Edwards L, Thomas C, Gregory A, et al. Are people with chronic diseases interested in using telehealth? A cross-sectional postal survey. *J. Med. Internet Res.* 16(5): e123, 2014 [htm](#)
- Fagerlund AJ, Holm IM, Zanaboni P. General practitioners' perceptions towards the use of digital health services for citizens in primary care: a qualitative interview study. *BMJ Open* 9(5):e028251, 2019 [htm](#)
- Fazzi Associates. National Chronic Disease Expert Design Project. National Association for Home Care & Hospice and Philips Home Healthcare Solutions, 2009 [pdf](#)
- Fazzi Associates. National state of the industry report for home health and hospice, 2013-2014. Delta Health Technologies and HealthWyse, 2014 [htm](#)
- Finkelstein SM, Speedie SM, Potthoff S. Home telehealth improves clinical outcomes at lower cost for home healthcare. *Telemed. eHealth* 12(2):128-136, 2006 [htm](#)
- Gabrielian S, Yuan A, Andersen RM, et al. Chronic disease management for recently homeless veterans: a clinical practice improvement program to apply home telehealth technology to a vulnerable population. *Med Care* 51(3 Suppl 1):S44-51, 2013 [htm](#)
- Giger JT, Pope ND, Vogt HB, et al. Remote patient monitoring acceptance trends among older adults residing in a frontier state. *Computers Hum. Behav.* 44:174–182, 2015 [pdf](#)
- Gokalp H, de Folter J, Verma V, et al. Integrated telehealth and telecare for monitoring frail elderly with chronic disease. *Telemed. e-Health* [epub ahead of print], August 2018 [PubMed](#)
- Grady J. Telehealth: A case study in disruptive innovation. *Amer. J. Nurs.* 114 (4): 38, 2014 [htm](#)
- Grant LA, Rockwood T, Stennes L. Client satisfaction with telehealth in assisted living and homecare. *Telemed. e-Health* 21(12):987-991, 2015 [PubMed](#)
- Grant LA, Rockwood T, Stennes L. Client satisfaction with telehealth services in home health care agencies. *J. Telemed. Telecare* 21(2):88-92., 2015 [PubMed](#)
- Hackensack Alliance Accountable Care Organization. Use case study: remote patient monitoring for chronic disease. mHIMSS Case Study, 2014 [htm](#)
- Henderson C, Knapp M, Fernández JL, et al. Cost effectiveness of telehealth for patients with long term conditions (Whole Systems Demonstrator telehealth questionnaire study): nested economic evaluation in a pragmatic, cluster randomised controlled trial. *Brit. Med. J.* 346:f1035, 2013 [htm](#)
- Intel, Inc. Making remote patient monitoring simple and cost effective. Solution Brief, 2017 [pdf](#)
- Jaboli F, Pouillon L, Bossuyt P, Danese S, Peyrin-Biroulet L. Telehealth in inflammatory bowel disease: every patient may need a coach! *Gastroenterology* [epub ahead of print] January 2018 [PubMed](#)
- Jia H, Chuang HC, Wu SS, Wang X, Chumbler NR. Long-term effect of home telehealth services on preventable hospitalization use. *J. Rehabil. Res. Dev.* 46(5):557-566, 2009 [htm](#)
- Johnston B, Wheeler L, Deuser J, Sousa KH. Outcomes of the Kaiser Permanente tele-home health research project. *Arch. Fam. Med.* 9(1):40-45, 2000 [htm](#)
- Juretic M, Hill R, Hicken B, Luptak M, Rupper R, Bair B. Predictors of attrition in older users of a home-based monitoring and health information delivery system. *Telemed. e-Health* 18(9):709-712, 2012 [htm](#)
- Kang Y, McHugh MD, Chittams J, Bowles KH. Risk factors for all-cause rehospitalization among Medicare recipients with heart failure receiving telehomecare. *Telemed. e-Health* 23(4): 305-312, 2017 [htm](#)
- Marx W, Kelly JT, Crichton M, et al. Is telehealth effective in managing malnutrition in community-dwelling older adults? A systematic review and meta-analysis. *Maturitas*;111:31-46, 2018 [PubMed](#)
- Matthew-Maich N, Harris L, Ploeg J, et al. Designing, implementing, and evaluating mobile health technologies for managing chronic conditions in older adults: a scoping review *JMIR Mhealth Uhealth* 4(2):e29, 2016 [htm](#)
- May CR, Finch TL, et al. Integrating telecare for chronic disease management in the community: What needs to be done? *BMC Health Serv. Res.* 11: 131, 2011 [htm](#)
- McKnight, S. Telehealth: applications for complex care. *Online J. Nurs. Informatics* 16 (3), Oct, 2012 [htm](#)

- Petersen CL, Weeks WB, Norin O, Weinstein JN. Development and implementation of a person-centered, technology-enhanced care model for managing chronic conditions: cohort study. *JMIR mHealth uHealth* 7(3):e11082, 2019 [htm](#)
- Raphael BP, Schumann C, Garrity-Gentile S, et al. Virtual telemedicine visits in pediatric home parenteral nutrition patients: a quality improvement initiative. *Telemed. e-Health* [epub ahead of print], May 2018 [PubMed](#)
- Sharma U, Clarke M. Nurses' and community support workers' experience of telehealth: a longitudinal case study. *BMC Health Serv. Res.* 14: 164, 2014 [htm](#)
- Takahashi PY, Hanson GJ, Pecina JL, et al. A randomized controlled trial of telemonitoring in older adults with multiple chronic conditions: the Tele-ERA study. *BMC Health Serv Res.* 10:255, 2010 [htm](#)
- Taylor A, Morris G, Pech J, Rechter S, Carati C, Kidd MR. Home telehealth video conferencing: perceptions and performance. *JMIR Mhealth Uhealth.* 3(3):e90, 2015 [htm](#)
- Thomason TR, Hawkins SY, Perkins KE, Hamilton E, Nelson B. Home telehealth and hospital readmissions: a retrospective OASIS-C data analysis. *Home Healthcare Now* 33(1):20-26, 2015 [PubMed](#)
- van Houwelingen CT, Ettema RG, Antonietti MG, Kort HS. Understanding older people's readiness for receiving telehealth: mixed-method study. *J Med Internet Res.* 20(4):e123, 2018 [pdf](#)
- Wade R, Cartwright C, Shaw K. Factors relating to home telehealth acceptance and usage compliance. *Risk Manag. Healthcare Policy* 5: 25-33, 2012 [htm](#)
- Wade R, Shaw K, Cartwright C. Factors affecting provision of successful monitoring in home telehealth. *Gerontology* 58(4):371-377, 2012 [htm](#)
- Wakefield BJ, Scherubel M, Ray A, Holman JE. Nursing interventions in a telemonitoring program. *Telemed. e-Health* 19(3):160-165, 2013 [htm](#)
- Wakefield BJ, Vaughan-Sarrazin M. Home telehealth and caregiving appraisal in chronic illness. *Telemed. e-Health* 23(4):282-289, 2017 [PubMed](#)
- Weinstein RS, Lopez AM, Joseph BA, Erps KA, Holcomb M, Barker GP, Krupinski EA. Telemedicine, telehealth, and mobile health applications that work: opportunities and barriers. *Amer. J. Med.* 127(3):183-187, 2014 [htm](#)
- Young NL, Barden W, McKeever P, Dick PT; Tele-HomeCare Team. Taking the call-bell home: a qualitative evaluation of Tele-HomeCare for children. *Health Soc. Care Comm.* 14(3):231-241, 2006 [PubMed](#)
- Young NL, Bennie J, Barden W, Dick PT; Tele-Homecare Team. An examination of quality of life of children and parents during their Tele-Homecare experience. *Telemed. e-Health* 12(6):663-671, 2006 [PubMed](#)

[RETURN TO TOPICS](#)

Remote monitoring and heart disease

--reviews

- AbuDagga A, Resnick HE, Alwan M. Impact of blood pressure telemonitoring on hypertension outcomes: a literature review. *Telemed. e-Health* 16(7):830-838, 2010. [htm](#)
- Agboola S, Jethwani K, Khateeb K, Moore S, Kvedar J. Heart failure remote monitoring: evidence from the retrospective evaluation of a real-world remote monitoring program. *J. Med. Internet Res.* 17(4):e101, 2015 [htm](#)
- Ansary A, Azuma A, Komatireddy R, Barrett PM. The connected health of cardiovascular medicine: current status and future directions. *QJM* 106 (11): 979-982, 2013 [htm](#)
- Bashi N, Karunanithi M, Fatehi F, Ding H, Walters D. Remote monitoring of patients with heart failure: an overview of systematic reviews. *J. Med. Internet Res.* 19(1):e18, 2017 [pdf](#)
- Broderick A. Partners HealthCare: Connecting heart failure patients to providers through remote monitoring. Case Studies in Telehealth Adoption, Commonwealth Fund, 2013 [pdf](#)
- Cajita MI, Gleason KT, Han HR. A systematic review of mHealth-based heart failure interventions. *J Cardiovasc. Nurs.* 31(3):E10-22, 2016 [htm](#)
- Canadian Agency for Drugs and Technologies in Health. Telehealth for patients with heart failure: a review of the clinical effectiveness, cost-effectiveness and guidelines. CADTH Rapid Response Reports, Dec. 2015 [htm](#)
- Canadian Agency for Drugs and Technologies in Health. Telehealth for patients with hypertension, coronary artery disease or implantable cardiac devices: a review of the clinical effectiveness, cost-effectiveness and guidelines. CADTH Rapid Response Reports, Jan. 2016 [htm](#)
- Canadian Agency for Drugs and Technologies in Health. Telehealth for the assessment and follow-up of patients requiring cardiac care: a review of the clinical effectiveness, cost-effectiveness, and guidelines. CADTH Rapid Response Reports, June 2015 [htm](#)
- Charness N, Fox M, Papadopoulos A, Crump C. Metrics for assessing the reliability of a telemedicine remote monitoring system. *Telemed. e-Health* 19(6):487-492, 2013 [htm](#)
- Cleland JG, Lewinter C, Goode KM. Telemonitoring for heart failure: the only feasible option for good universal care? *Eur. J. Heart Failure* 11(3):227-228, 2009 [htm](#)
- Conway A, Inglis SC, Clark RA. Effective technologies for noninvasive remote monitoring in heart failure. *Telemed. e-Health* 20(6): 531-538, 2014 [htm](#)

- Crundall-Goode A, Goode KM. Using telehealth for heart failure: Barriers, pitfalls and current nursing service models. *Brit. J. Cardiac Nursing* 9(8):1-21, 2014 [pdf](#)
- de Waure C, Cadeddu C, Rosaria Gualano M, Ricciardi W. Telemedicine for the reduction of myocardial infarction mortality: a systematic review and a meta-analysis of published studies. *Telemed. e-Health* 18(5): 323-328, 2012 [htm](#)
- Duff OM, Walsh DM, Furlong BA, et al. Behavior change techniques in physical activity eHealth interventions for people with cardiovascular disease: systematic review. *J. Med. Internet Res.* 19(8):e281, 2017 [pdf](#)
- Frederix I, Vanhees L, Dendale P, Goetschalckx K. A review of telerehabilitation for cardiac patients. *J. Telemed. Telecare* 21(1):45-53, 2015 [htm](#)
- Giamouzis G, Mastrogiannis D, et al. Telemonitoring in Chronic Heart Failure: A systematic review *Cardiol. Res. Pract.* 2012: 410820, 2012. [htm](#)
- Gorst SL, Armitage CJ, Brownsell S, Hawley MS. Home telehealth uptake and continued use among heart failure and chronic obstructive pulmonary disease patients: a systematic review. *Ann. Behav. Med.* 48(3):323-336, 2014 [htm](#).
- Greenhalgh T, A'Court C, Shaw S. Understanding heart failure; explaining telehealth - a hermeneutic systematic review. *BMC Cardiovasc. Disord.* 17(1):156, 2017 [htm](#)
- Hameed AS, Sauermann S, Schreier G. The impact of adherence on costs and effectiveness of telemedical patient management in heart failure: a systematic review. *Stud. Health Technol. Inform.* 198:250, 2014 [htm](#)
- Hasan A, Paul V. Telemonitoring in chronic heart failure. *Eur. Heart J.* 32(12):1457-1464, 2011. [htm](#)
- Inglis SC, Clark RA, McAlister FA, Stewart S, Cleland JG. Which components of heart failure programmes are effective? A systematic review and meta-analysis of the outcomes of structured telephone support or telemonitoring as the primary component of chronic heart failure management in 8323 patients: Abridged Cochrane Review. *Eur. J. Heart Fail.* 13(9):1028-1040, 2011. [htm](#)
- Jin K, Khonsari S, Gallagher R, et al. Telehealth interventions for the secondary prevention of coronary heart disease: A systematic review and meta-analysis. *Eur. J. Cardiovasc Nurs.* [epub ahead of print], January 2019 [PubMed](#)
- Kitsiou S, Paré G, Jaana M. Effects of home telemonitoring interventions on patients with chronic heart failure: An overview of systematic reviews. *J. Med. Internet Res.* 17(3):e63, 2015 [htm](#)
- Klersy C, De Silvestri A, Gabutti G, et al. Economic impact of remote patient monitoring: an integrated economic model derived from a meta-analysis of randomized controlled trials in heart failure. *Eur. J. Heart Fail.* 13(4):450-459, 2011. [htm](#)
- Knox L, Rahman RJ, Beedie C. Quality of life in patients receiving telemedicine enhanced chronic heart failure disease management: A meta-analysis. *J. Telemed. Telecare* 23(7):639-649, 2016 [PubMed](#)
- Konstam MA. Home monitoring should be the central element in an effective program of heart failure disease management. *Circulation* 125(6):820-827, 2012 [htm](#)
- Kotb A, Cameron C, Hsieh S, Wells G. Comparative effectiveness of different forms of telemedicine for individuals with heart failure (HF): A systematic review and network meta-analysis. *PLoS One* 10(2):e0118681, 2015 [htm](#)
- Kruse CS, Soma M, Pulluri D, Nemali NT, Brooks M. The effectiveness of telemedicine in the management of chronic heart disease - a systematic review. *JRSM Open* 8(3):2054270416681747, 2017 [htm](#)
- López-Villegas A, Catalán-Matamoros D, Martín-Saborido C, Villegas-Tripiana I, Robles-Musso E. A systematic review of economic evaluations of pacemaker telemonitoring systems. *Rev. Esp. Cardiol.* 69(2):125-133, 2016 [htm](#)
- Maric B, Kaan A, Ignaszewski A, Lear SA. A systematic review of telemonitoring technologies in heart failure. *Eur. J. Heart Fail.* 11(5):506-517, 2009 [htm](#)
- Martirosyan M, Caliskan K, Theuns DAMJ, Szili-Torok T. Remote monitoring of heart failure: benefits for therapeutic decision making. *Expert Rev. Cardiovasc. Ther.* 15(7):503-515, 2017 [htm](#)
- McGillion MH, Duceppe E, Allan K, et al. Postoperative remote automated monitoring: need for and state of the science. *Can. J. Cardiol.* 34(7):850-862, 2018 [PubMed](#)
- McKoy J, Fitzner K, Margetts M, et al. Are telehealth technologies for hypertension care and self-management effective or simply risky and costly? *Popul. Health Manag.* 18(3):192-202, 2015 [htm](#)
- Merriel SW, Andrews V, Salisbury C. Telehealth interventions for primary prevention of cardiovascular disease: a systematic review and meta-analysis. *Prev. Med.* 64:88-95, 2014 [htm](#)
- Nakamura N, Koga T, Iseki H. A meta-analysis of remote patient monitoring for chronic heart failure patients. *J. Telemed. Telecare* 20: 11-17, 2014 [htm](#)
- Ontario Telehealth Network. Evidence review: Telehomecare for heart failure patients – Executive summary. OTN Network, 2012 [htm](#)
- Pandor A, Thokala P, Gomersall T, et al. Home telemonitoring or structured telephone support programmes after recent discharge in patients with heart failure: systematic review and economic evaluation. *Health Technol. Assess.* 17(32):1-207, 2013 [htm](#)
- Parati G, Dolan E, McManus RJ, Omboni S. Home blood pressure telemonitoring in the 21st century. *J. Clin. Hypertens* 20(7):1128-1132, 2018 [pdf](#)

- Paré G, Moqadem K, Pineau G, St-Hilaire C. Clinical effects of home telemonitoring in the context of diabetes, asthma, heart failure and hypertension. *J. Med. Internet Res.* 12(2):e21, 2010 [htm](#)
- Parthiban N, Esterman A, Mahajan R, et al. Remote monitoring of implantable cardioverter-defibrillators: a systematic review and meta-analysis of clinical outcomes. *J. Amer. Coll. Cardiol.* 65(24):2591-2600, 2015 [pdf](#)
- Purcell R, McInnes S, Halcomb EJ. Telemonitoring can assist in managing cardiovascular disease in primary care: a systematic review of systematic reviews. *BMC Fam. Pract.* 15: 43, 2014 [htm](#)
- Rivera-Romero O, Olmo A, Muñoz R, Stiefel P, Miranda ML, Beltrán LM. Mobile health solutions for hypertensive disorders in pregnancy: scoping literature review. *JMIR Mhealth Uhealth* 6(5):e130, 2018 [htm](#)
- Shahaj O, Denny D, Schwappach A, et al. Supporting self-management for people with hypertension: a meta-review of quantitative and qualitative systematic reviews. *J. Hypertens.* [epub ahead of print], July 2018 [PubMed](#)
- Sivakumaran D, Earle KA. Telemonitoring: use in the management of hypertension. *Vasc. Health Risk Manag.* 10:217-224, 2014 [htm](#)
- Tse G, Chan C, Gong M, et al. Telemonitoring and hemodynamic monitoring to reduce hospitalization rates in heart failure: a systematic review and meta-analysis of randomized controlled trials and real-world studies. *J. Geriatr. Cardiol.* 15(4):298-309, 2018 [htm](#)
- Veazie S, Winchell K, Gilbert J, et al. Rapid evidence review of mobile applications for self-management of diabetes. *J Gen Intern Med.* [epub ahead of print], May 2018 [PubMed](#)
- Woo K, Dowding D. Factors affecting the acceptance of telehealth services by heart failure patients: an integrative review. *Telemed. e-Health* 24(4):292-300, 2017 [PubMed](#)
- Zullig LL, Melnyk SD, Goldstein K, Shaw RJ, Bosworth HB. The role of home blood pressure telemonitoring in managing hypertensive populations. *Curr. Hypertens. Rep.* 15(4):346-355, 2013 [htm](#)

[RETURN TO TOPICS](#)

--research and demonstration studies

- Aamodt IT, Lycholip E, Celutkiene J, et al. Health care professionals' perceptions of home telemonitoring in heart failure care: cross-sectional survey. *J. Med. Internet Res.* 21(2):e10362, 2019 [htm](#)
- Agboola S, Jethwani K, Khateeb K, Moore S, Kvedar J. Heart failure remote monitoring: evidence from the retrospective evaluation of a real-world remote monitoring program. *J. Med. Internet Res.* 17(4):e101, 2015 [htm](#)
- AHRQ. Web-facilitated home monitoring and ongoing pharmacist support improve blood pressure control in hypertensive patients. *AHRQ Health Care Innovation Profile*, 2010 [htm](#)
- Alnosayan N, Chatterjee S, Alluhaidan A, et al. Design and usability of a heart failure mHealth system: a pilot study. *JMIR Hum. Factors* 4(1):e9, 2017 [htm](#)
- Andreatta C, McKibbin A. A comparison of telehomecare delivery models for congestive heart failure in three Canadian jurisdictions. Working paper #52, McMaster eBusiness Research Center, 2015 [pdf](#)
- Aamodt IT, Lycholip E, Celutkiene J, et al. Health care professionals' perceptions of home telemonitoring in heart failure care: cross-sectional survey. *J. Med. Internet Res.* 21(2):e10362, 2019 [htm](#)
- Asche SE, O'Connor PJ, Dehmer SP, et al. Patient characteristics associated with greater blood pressure control in a randomized trial of home blood pressure telemonitoring and pharmacist management. *J. Amer. Soc. Hypertens.* 10(11):873-880, 2016 [htm](#)
- Bartlett YK, Haywood A, Bentley CL, et al. The SMART personalised self-management system for congestive heart failure: results of a realist evaluation. *BMC Med Inform Decis Mak.* 14(1): 109, 2014 [htm](#)
- Benson GA, Sidebottom A, Sillah A, et al. Reach and effectiveness of the HeartBeat Connections telemedicine pilot program. *J. Telemed. Telecare* 24(3):216-223, 2018 [PubMed](#)
- Bernocchi P, Scalvini S, Bertacchini F, Rivadossi F, Muiasan ML. Home based telemedicine intervention for patients with uncontrolled hypertension: - a real life - non-randomized study. *BMC Med. Inform. Decis. Making* 14: 52, 2014 [htm](#)
- Boyde M, Rankin J, Whitty JA, et al. Patient preferences for the delivery of cardiac rehabilitation. *Patient Educ. Couns.* [epub ahead of print], July 2018 [PubMed](#)
- Chaudhry SI, Matterna JA, Krumholz HM. Telemonitoring in patients with heart failure. Response to comments on: Chaudhry et al, 2010. *New Engl. J. Med.* 364 (11): 1078-1080, 2011 [htm](#)
- Chaudhry SI, Matterna JA, et al. Telemonitoring in patients with heart failure. *New Engl. J. Med.* 363(24):2301-2309, 2010 [htm](#)
- Choi BG, Dhawan T, Metzger K, et al. Image-based mobile system for dietary management in an American cardiology population: pilot randomized controlled trial to assess the efficacy of dietary caching delivered via a smartphone app versus traditional counseling. *JMIR mHealth uHealth* 7(4):e10755, 2019 [htm](#)
- Dadosky A, Overbeck H, Barbetta Let al. Telemanagement of heart failure patients across the post-acute care continuum. *Telemed. e-Health* 24(5):360-366., 2018 [PubMed](#)

- Dario C, Delise P, Gubian L, Saccavini C, Brandolino G, Mancin S. Large controlled observational study on remote monitoring of pacemakers and implantable cardiac defibrillators: a clinical, economic, and organizational evaluation. *Interact. J. Med. Res.* 5(1):e4, 2016 [htm](#)
- DeBlois D, Millefoglie M. Telehealth: Enhancing collaboration, improving care coordination. *Nursing Management* 46(6):10-12, 2015 [htm](#)
- Dendale P, De Keulenaer G, et al. Effect of a telemonitoring-facilitated collaboration between general practitioner and heart failure clinic on mortality and rehospitalization rates in severe heart failure. *Eur. J. Heart Fail.* 14(3):333-340, 2012. [htm](#)
- Ding H, Jayasena R, Maiorana A, Dowling A, Chen SH, Karunanithi M, Layland J, Edwards I. Innovative telemonitoring enhanced care programme for chronic heart failure (ITEC-CHF) to improve guideline compliance and collaborative care: protocol of a multicentre randomised controlled trial. *BMJ Open.* 7(10):e017550, 2017 [htm](#)
- Dixon P, Hollinghurst S, Edwards L, et al. Cost-effectiveness of telehealth for patients with raised cardiovascular disease risk: evidence from the Healthlines randomised controlled trial. *BMJ Open.* 6(8):e012352, 2016 [htm](#)
- Evans J, Papadopoulos A, Silvers CT, et al. Remote health monitoring for older adults and those with heart failure: adherence and system usability. *Telemed. e-Health* 22(6):480-488, 2016 [htm](#)
- Frederix I, Caiani EG, Dendale P, et al. ESC e-Cardiology Working Group position paper: Overcoming challenges in digital health implementation in cardiovascular medicine. *Eur. J. Prev. Cardiol.* [epub ahead of print], March 2019 [PubMed](#)
- Fujita S, Pitaktong I, Steller GV, et al. Pilot study of a smartphone application designed to socially motivate cardiovascular disease patients to improve medication adherence. *mHealth* 4:1, 2018 [htm](#)
- Gellis ZD, Kenaley B, McGinty J, et al. Outcomes of a telehealth intervention for homebound older adults with heart or chronic respiratory failure: a randomized controlled trial. *Gerontologist* 52(4):541-552, 2012 [htm](#)
- Gorny AW, Liew SJ, Tan CS, Müller-Riemenschneider F. Fitbit Charge HR wireless heart rate monitor: validation study conducted under free-living conditions. *JMIR Mhealth Uhealth* 5(10):e157, 2017 [htm](#)
- Grustam AS, Severens JL, De Massari D, et al. Cost-effectiveness analysis in telehealth: a comparison between home telemonitoring, nurse telephone support, and usual care in chronic heart failure management. *Value Health* 21(7):772-782, 2018 [PubMed](#)
- Guédon-Moreau L, Lacroix D, Sadoul N, et al. Costs of remote monitoring vs. ambulatory follow-ups of implanted cardioverter defibrillators in the randomized ECOST study. *Europace* 16(8):1181-1188, 2014 [htm](#)
- Hale TM, Jethwani K, Kandola MS, Saldana F, Kvedar JC. A remote medication monitoring system for chronic heart failure patients to reduce readmissions: a two-arm randomized pilot study. *J. Med. Internet Res.* 18(4):e91, 2016 [htm](#)
- Harrison CE, Wild K. Using telehealth in the management of hypertension. *Nurs. Stand.* 31(48):44-49, 2017 [PubMed](#)
- Herold R, Hoffmann W, van den Berg N. Telemedical monitoring of patients with chronic heart failure has a positive effect on total health costs. *BMC Health Serv. Res.* 18: 271, 2018 [pdf](#)
- Hung CS, Yu JY, Lin YH, et al. Mortality benefit of a fourth-generation synchronous telehealth program for the management of chronic cardiovascular disease: a longitudinal study. *J. Med. Internet Res.* 18(5):e102, 2016 [htm](#)
- Hwang R, Morris NR, Mandrusiak A, et al. Cost-utility analysis of home-based telerehabilitation compared with centre-based rehabilitation in patients with heart failure. *Heart Lung Circ.* [epub ahead of print], December 2018 [PubMed](#)
- Jayaram NM, Khariton Y, Krumholz HM, et al. Impact of telemonitoring on health status. *Circ. Cardiovasc. Qual. Outcomes* 10(12), 2017 [htm](#)
- Jindal D, Gupta P, Jha D, et al. The development of mWellcare, an mHealth system for the integrated management of hypertension and diabetes in primary care. *Stud. Health Technol. Inform.* 245:1230, 2017 [PubMed](#)
- Kang SH, Joe B, Yoon Y, Cho GY, Shin I, Suh JW. Cardiac auscultation using smartphones: pilot study. *JMIR mHealth uHealth* 6(2):e49, 2018 [htm](#)
- Kang Y, McHugh MD, Chittams J, Bowles KH. Risk factors for all-cause rehospitalization among Medicare recipients with heart failure receiving telehomecare. *Telemed. e-Health* 23(4): 305-312, 2017 [htm](#)
- Karhula T, Vuorinen A-L, Rääpysjärvi K, et al. Telemonitoring and mobile phone-based health coaching among Finnish diabetic and heart disease patients: randomized controlled trial. *J. Med. Internet Res.* 17(6):e153, 2015 [htm](#)
- Keeping-Burke L, Purden M, Frasure-Smith N, et al. Bridging the transition from hospital to home: effects of the VITAL telehealth program on recovery for CABG surgery patients and their caregivers. *Res. Nurs. Health* 36(6):540-553, 2013 [htm](#)
- Kim JY, Wineinger NE, Steinhubl SR. The influence of wireless self-monitoring program on the relationship between patient activation and health behaviors, medication adherence, and blood pressure levels in hypertensive patients: a substudy of a randomized controlled trial. *J. Med. Internet Res.* 18(6):e116, 2016 [htm](#)
- Koehler F, Winkler S, et al. Impact of remote telemedical management on mortality and hospitalizations in ambulatory patients with chronic heart failure: The telemedical interventional monitoring in heart failure study. *Circulation* 123(17):1873-1880, 2011. [htm](#)

- Kulshreshtha A, Kvedar JC, Goyal A, Halpern EF, Watson AJ. Use of remote monitoring to improve outcomes in patients with heart failure: A pilot trial. *Int. J. Telemed. Appl.* 2010, 2010: [htm](#)
- Layton AM, Whitworth J, Peacock J, et al. Feasibility and acceptability of utilizing a smartphone based application to monitor outpatient discharge instruction compliance in cardiac disease patients around discharge from hospitalization. *Int. J. Telemed. Appl.* 2014: 415868, 2014 [htm](#)
- Lee H, Park JB, Choi SW, et al. Impact of a telehealth program with voice recognition technology in patients with chronic heart failure: feasibility study. *JMIR Mhealth Uhealth* 5(10):e127, 2017 [htm](#)
- Liu SX, Xiang R, Lagor C, Liu N, Sullivan K. Economic modeling of heart failure telehealth programs: when do they become cost saving? *Int. J. Telemed. Appl.* 2016:3289628, 2016 [htm](#)
- Maeng DD, Starr AE, Tomcavage JF, Sciandra J, Salek D, Griffith D. Can telemonitoring reduce hospitalization and cost of care? A health plan's experience in managing patients with heart failure. *Popul. Health Manag.* 17(6):340-344, 2014 [htm](#)
- Margolis KL, Asche SE, Bergdall AR, et al. Effects of home blood pressure telemonitoring and pharmacist management on blood pressure control: a cluster randomized clinical trial. *JAMA* 310(1):46-56, 2013 [htm](#)
- Martín-Lesende I, et al. Assessment of a primary care-based telemonitoring intervention for home care patients with heart failure and chronic lung disease. The TELBIL study. *BMC Health Serv Res.* 11:56, 2011 [htm](#)
- Martín-Lesende I, Orruño E, Bilbao A, et al. Impact of telemonitoring home care patients with heart failure or chronic lung disease from primary care on healthcare resource use (the TELBIL study randomised controlled trial). *BMC Health Serv. Res.* 13:118, 2013 [htm](#)
- Martirosyan M, Caliskan K, Theuns DAMJ, Szili-Torok T. Remote monitoring of heart failure: benefits for therapeutic decision making. *Expert Rev. Cardiovasc. Ther.* 15(7):503-515, 2017 [htm](#)
- Masi C, Hamlsh T, Davis A, et al. Using an established telehealth model to train urban primary care providers on hypertension management. *J. Clin. Hypertens.* 14(1):45-50, 2012 [PubMed](#)
- Masterson Creber RM, Hickey KT, Maurer MS. Gerontechnologies for older patients with heart failure: what is the role of smartphones, tablets, and remote monitoring devices in improving symptom monitoring and self-care management? *Curr. Cardiovasc. Risk Rep.* 10(10): 30, 2016 [htm](#)
- McKoy J, Fitzner K, Margetts M, et al. Are telehealth technologies for hypertension care and self-management effective or simply risky and costly? *Popul. Health Manag.* 18(3):192-202, 2015 [htm](#)
- Müller A, Goette A, Perings C, et al. Potential role of telemedical service centers in managing remote monitoring data transmitted daily by cardiac implantable electronic devices: results of the early detection of cardiovascular events in device patients with heart failure. *Telemed. e-Health* 19(6): 460-466, 2013 [htm](#)
- Nägele H, Lipoldová J, Oswald H, et al. Home monitoring of implantable cardioverter-defibrillators: interpretation reliability of the second-generation "IEGM Online" system. *Europace*, Jan 6, 2015 [Epub ahead of print] [htm](#)
- Nouryan CN, Morahan S, Pecinka K, et al. Home telemonitoring of community-dwelling heart failure patients after home care discharge. *Telemed. e-Health* [epub ahead of print], July 2018 [PubMed](#)
- O'Connor M, Asdornwised U, Dempsey ML, et al. Using telehealth to reduce all-cause 30-day hospital readmissions among heart failure patients receiving skilled home health services. *Appl. Clin. Inform.* 7(2):238-247, 2016 [htm](#)
- Odeh B, Kayyali R, Nabhani-Gebara S, Philip N, Robinson P, Wallace CR. Evaluation of a telehealth service for COPD and HF patients: Clinical outcome and patients' perceptions. *J. Telemed. Telecare* 21(5):292-297, 2015 [htm](#)
- Ong MK, Romano PS, Edgington S, et al. Effectiveness of remote patient monitoring after discharge of hospitalized patients with heart failure: the Better Effectiveness After Transition -- Heart Failure (BEAT-HF) randomized clinical trial. *JAMA Intern. Med.* 176(3):310-318, 2016 [htm](#)
- Parati G, Dolan E, McManus RJ, Omboni S. Home blood pressure telemonitoring in the 21st century. *J. Clin. Hypertens* 20(7):1128-1132, 2018 [pdf](#)
- Pekmezaris R, Mitzner I, Pecinka KR, et al. The impact of remote patient monitoring (telehealth) upon Medicare beneficiaries with heart failure. *Telemed. e-Health* 18(2):101-108, 2012 [PubMed](#)
- Pekmezaris R, Schwartz RM, Taylor TN, et al. A qualitative analysis to optimize a telemonitoring intervention for heart failure patients from disparity communities. *BMC Med. Inform. Decision Making* 16(1):75, 2016 [htm](#)
- Pekmezaris R, Nouryan CN, Schwartz R, et al. A randomized controlled trial comparing telehealth self-management to standard outpatient management in underserved black and Hispanic patients living with heart failure. *Telemed. e-Health* [epub ahead of print] November, 2018 [PubMed](#)
- Piette JD, Striplin D, Marinec N, et al. A mobile health intervention supporting heart failure patients and their informal caregivers: a randomized comparative effectiveness trial. *J. Med. Internet Res.* 17(6):e142, 2015 [htm](#)
- Ploux S, Varma N, Strik M, Lazarus A, Bordachar P. Optimizing implantable cardioverter-defibrillator remote monitoring: a practical guide. *JACC Clin. Electrophysiol.* 3(4):315-328, 2017 [htm](#)
- Postel-Vinay N, Bobrie G, Savard S, et al. Home blood pressure measurement and digital health: communication technologies create a new context. *J. Hypertens.* [epub ahead of print], July 2018 [PubMed](#)
- Radhakrishnan K, Jacelon CS, Bigelow C, Roche J, Marquard J, Bowles KH. Use of a homecare electronic health record to find associations between patient characteristics and re-hospitalizations in patients with heart failure using telehealth. *J. Telemed. Telecare* 19(2):107-112, 2013 [htm](#)

- Radhakrishnan K, Jacelon CS, Bigelow C, Roche JP, Marquard JL, Bowles KH. Association of comorbidities with home care service utilization of patients with heart failure while receiving telehealth. *J. Cardiovasc. Nurs.* 28(3):216-227, 2013 [htm](#)
- Reiss N, Schmidt T, Boeckelmann M, et al. Telemonitoring of left-ventricular assist device patients-current status and future challenges. *J. Thorac. Dis.* 10(Suppl 15):S1794-S1801, 2018 [htm](#)
- Riley WT, Keberlein P, Sorenson G, et al. Program evaluation of remote heart failure monitoring: healthcare utilization analysis in a rural regional medical center. *Telemed. e-Health* 20 (13): [epub ahead of print], 2015 [htm](#)
- Rosen D, McCall JD, Primack BA. Telehealth protocol to prevent readmission among high-risk patients with congestive heart failure. *Amer. J. Med.* 130(11):1326-1330, 2017 [PubMed](#)
- Rush KL, Hatt L, Gorman N, Janicki L, Polasek P, Shay M. Planning telehealth for older adults with atrial fibrillation in rural communities: understanding stakeholder perspectives. *Clin. Nurs. Res.* [epub ahead of print], February 2018 [PubMed](#)
- Salisbury C, O' Cathain A, Thomas C, et al. Telehealth for patients at high risk of cardiovascular disease: pragmatic randomised controlled trial. *Brit. Med. J* 353:i2647, 2016 [htm](#)
- Scherr D, Kastner P, Kollmann A, Hallas A, Auer J, Krappinger H, Schuchlenz H, Stark G, Grandner W, Jakl G, Schreier G, Fruhwald FM; MOBITELE Investigators. Effect of home-based telemonitoring using mobile phone technology on the outcome of heart failure patients after an episode of acute decompensation: randomized controlled trial. *J. Med. Internet Res.* 11(3):e34, 2009. [htm](#)
- Seetharam K, Kagiya N, Sengupta PP. Application of mobile health, telemedicine and artificial intelligence to echocardiography. *Echo Res. Pract.* [epub ahead of print], February 2019 [htm](#) WV
- Seto E, Leonard KJ, Cafazzo JA, Barnsley J, Masino C, Ross HJ. Mobile phone-based telemonitoring for heart failure management: a randomized controlled trial. *J. Med. Internet Res.* 14(1):e31, 2012 [htm](#).
- Seto E, Leonard KJ, Masino C, Cafazzo JA, Barnsley J, Ross HJ. Attitudes of heart failure patients and health care providers towards mobile phone-based remote monitoring. *J. Med. Internet Res.* 12(4): e55, 2010. [htm](#)
- Suh MK, Chen CA, Woodbridge J, Tu MK, Kim JI, Nahapetian A, Evangelista LS, Sarrafzadeh M. A remote patient monitoring system for congestive heart failure. *J. Med. Syst.* 35(5):1165-1179, 2011 [htm](#)
- Thokala P, Baalbaki H, Brennan A, et al. Telemonitoring after discharge from hospital with heart failure: cost-effectiveness modelling of alternative service designs. *BMJ Open* 3(9): e003250, 2013 [htm](#)
- Wade MJ, Desai AS, et al. Telemonitoring with case management for seniors with heart failure. *Amer. J. Manag. Care.* 17(3):e71-9, 2011 [htm](#)
- Wakefield BJ, Bylund CL, Holman JE. Nurse and patient communication profiles in a home-based telehealth intervention for heart failure management. *Pat. Educ. Counseling* 71 (2): 285–292, 2008 [pdf](#)
- Wakefield BJ, Ward MM, Holman JE. Evaluation of home telehealth following hospitalization for heart failure: a randomized trial. *Telemed. e-Health* 14(8):753-761, 2008 [htm](#)
- Whitten P, Bergman A, Meese MA, Bridwell K, Jule K. St. Vincent's home telehealth for congestive heart failure patients. *Telemed. e-Health* 15(2): 148-153, 2009 [PubMed](#)
- Wolf A, Fors A, Ulin K, Thorn J, Swedberg K, Ekman I. An eHealth diary and symptom-tracking tool combined with person-centered care for improving self-efficacy after a diagnosis of acute coronary syndrome: A substudy of a randomized controlled trial. *J. Med. Internet Res.* 18(2):e40, 2016 [htm](#)
- Woo K, Shang J, Dowding DW. Patient factors associated with the initiation of telehealth services among heart failure patients at home. *Home Health Care Serv. Q.* 37(4):277-293, 2018 [PubMed](#)
- Zai AH, Ronquillo JG, Nieves R, Chueh HC, Kvedar JC, Jethwani K. Assessing hospital readmission risk factors in heart failure patients enrolled in a telemonitoring program. *Int. J. Telemed. Appl.* 2013:305819, 2013 [htm](#)

[RETURN TO TOPICS](#)

Home-based diabetes care

--reviews

- Ajjan RA. How can we realize the clinical benefits of continuous glucose monitoring? *Diabetes Technol. Ther.* 19(S2):S27-S36, 2017 [htm](#)
- Arambepola C, Ricci-Cabello I, Manikavasagam P, et al. The impact of automated brief messages promoting lifestyle changes delivered via mobile devices to people with type 2 diabetes: A systematic literature review and meta-analysis of controlled trials. *J. Med. Internet Res.* 18(4):e86, 2016 [htm](#)
- Arnhold M, Quade M, Wilhelm Kirch W. Mobile applications for diabetics: a systematic review and expert-based usability evaluation considering the special requirements of diabetes patients age 50 years or older. *J. Med. Internet Res.* 16(4): e104, 2014 [htm](#)
- Balkhi AM, Reid AM, Westen SC, et al. Telehealth interventions to reduce management complications in type 1 diabetes: A review. *World J. Diabetes* 6(3):371-379, 2015 [htm](#)
- Bashshur RL, Shannon GW, Smith BR, Woodward MA. The empirical evidence for the telemedicine intervention in diabetes management. *Telemed. e-Health* 21(5):321-354, 2015 [pdf](#)

- Bellei EA, Biduski D, Cechetti NP, De Marchi ACB. Diabetes mellitus m-Health applications: A systematic review of features and fundamentals. *Telemed. eHealth* [epub ahead of print] Feb. 2018 [PubMed](#)
- Bonoto BC, de Araújo VE, Godói IP, et al. Efficacy of mobile apps to support the care of patients with diabetes mellitus: a systematic review and meta-analysis of randomized controlled trials. *JMIR Mhealth Uhealth*. 5(3):e4, 2017 [htm](#)
- Canadian Agency for Drugs and Technologies in Health. Tele-medicine for patients with diabetes: clinical and cost-effectiveness. CADTH Rapid Response Reports, August 2014 [htm](#)
- Clemens KK, Kalatharan V, Ryan BL, Reichert S. Nonconventional diabetes-related care strategies for patients with chronic kidney disease: A scoping review of the literature. *J. Comorb*. 9:2235042X19831918, 2019 [htm](#)
- Cotter AP, Durant N, Agne AA, Cherrington AL. Internet interventions to support lifestyle modification for diabetes management: a systematic review of the evidence. *J. Diabetes Complications* 28(2):243-251, 2014 [htm](#)
- Faruque LI, Wiebe N, Ehteshami-Afshar A, et al. Effect of telemedicine on glycated hemoglobin in diabetes: a systematic review and meta-analysis of randomized trials. *Canadian Med. Assoc. J.* [epub ahead of print] October, 2016 [htm](#)
- Fatehi F, Menon A, Bird D. Diabetes care in the digital era: a synoptic overview. *Curr Diab Rep*. 18(7):38, 2018 [PubMed](#)
- Goyal S, Cafazzo JA. Mobile phone health apps for diabetes management: Current evidence and future developments. *QJM* 106 (12):1067-1069, 2013 [htm](#)
- Greenwood DA, Young HM, Quinn CC. Telehealth remote monitoring systematic review: structured self-monitoring of blood glucose and impact on A1C. *J. Diabetes Sci. Technol.* 8(2):378-389, 2014 [htm](#)
- Hu Y, Wen X, Wang F, Yang D, Liu S, Li P, Xu J. Effect of telemedicine intervention on hypoglycaemia in diabetes patients: A systematic review and meta-analysis of randomised controlled trials. *J Telemed Telecare* [epub ahead of print], May 2018 [PubMed](#)
- Klonoff DC. Improved outcomes from diabetes monitoring: the benefits of better adherence, therapy adjustments, patient education, and telemedicine support. *J. Diabetes Sci. Technol.* 6(3): 486-490, 2012 [pdf](#)
- Lanzola G, Losiouk E, Del Favero S, et al. Remote blood glucose monitoring in mHealth scenarios: A review. *Sensors* 16(12): E1983, 2016 [htm](#)
- Lee PA, Greenfield G, Pappas Y. The impact of telehealth remote patient monitoring on glycemic control in type 2 diabetes: a systematic review and meta-analysis of systematic reviews of randomised controlled trials. *BMC Health Serv. Res.* 18(1):495, 2018 [htm](#)
- Lee SWH, Ooi L, Lai YK. Telemedicine for the management of glycemic control and clinical outcomes of type 1 diabetes mellitus: a systematic review and meta-analysis of randomized controlled studies. *Frontiers Pharmacol.* 8:330, 2017 [htm](#)
- Marcolino MS, Maia JX, Alkmim MB, Boersma E, Ribeiro AL. Telemedicine application in the care of diabetes patients: systematic review and meta-analysis. *PLoS One* 8(11):e79246, 2013 [htm](#)
- McLendon SF. Interactive video telehealth models to improve access to diabetes specialty care and education in the rural setting: a systematic review. *Diabetes Spectr.* 30(2):124-136, 2017 [htm](#)
- Ming WK, Mackillop LH, Farmer AJ, et al. Telemedicine technologies for diabetes in pregnancy: a systematic review and meta-analysis. *J. Med. Internet Res.* 18(11):e290, 2016 [htm](#)
- Paré G, Moqadem K, Pineau G, St-Hilaire C. Clinical effects of home telemonitoring in the context of diabetes, asthma, heart failure and hypertension. *J. Med. Internet Res.* 12(2):e21, 2010 [htm](#)
- Perez-Ferre N, Calle-Pascual AL. Overview of telemedicine applications in the follow-up of the diabetic patient. Chapter 5 in: G. Grasczew, T.A. Roelofs, (eds.), *Advances in Telemedicine: Applications in Various Medical Disciplines and Geographical Regions*, Intech, 2011 [htm](#)
- Shah VN, Garg SK. Managing diabetes in the digital age. *Clin. Diab. Endocrin.* 1:16, 2015 [htm](#)
- Shulman RM, O'Gorman CS, Palmert MR. The impact of telemedicine interventions involving routine transmission of blood glucose data with clinician feedback on metabolic control in youth with type 1 diabetes: a systematic review and meta-analysis. *Int. J. Pediatr. Endocrinol.* 2010: 536957, 2010 [htm](#)
- Tchero H, Kangambega P, Briatte C, et al. Clinical effectiveness of telemedicine in diabetes mellitus: a meta-analysis of 42 randomized controlled trials. *Telemed. e-Health* [epub ahead of print], August 2018 [PubMed](#)
- Walker CL, Kopp M, Binford RM, Bowers CJ. Home telehealth interventions for older adults with diabetes. *Home Healthcare Now* 35(4):202-210, 2017 [PubMed](#)

[RETURN TO TOPICS](#)

--research and demonstrations

- Agboola S, Havasy R, Myint-U K, Kvedar J, Jethwani K. The impact of using mobile-enabled devices on patient engagement in remote monitoring programs. *J. Diabetes Sci Technol.* 7(3):623-629, 2013 [htm](#)
- Aikens JE, Rosland AM, Piette JD. Improvements in illness self-management and psychological distress associated with telemonitoring support for adults with diabetes. *Prim. Care Diabetes* 9(2):127-134, 2015 [htm](#)

- Ajjan RA. How can we realize the clinical benefits of continuous glucose monitoring? *Diabetes Technol. Ther.* 19(S2):S27-S36, 2017 [htm](#)
- Ayre J, Bonner C, Bramwell S, et al. Factors for supporting primary care physician engagement with patient apps for type 2 diabetes self-management that link to primary care: interview study. *JMIR mHealth uHealth* 7(1):e11885, 2019 [htm](#)
- Baron J, Hirani S, Newman S. A mobile telehealth intervention for adults with insulin-requiring diabetes: early results of a mixed-methods randomized controlled trial. *JMIR Res. Protoc.* 4(1):e27, 2015 [htm](#)
- Baron JS, Hirani SP, Newman SP. Investigating the behavioural effects of a mobile-phone based home telehealth intervention in people with insulin-requiring diabetes: Results of a randomized controlled trial with patient interviews. *J. Telemed. Telecare* ;23(5):503-512, 2017 [PubMed](#)
- Boogerd E, Maas-Van Schaijk NM, Sas TC, et al. Sugarsquare, a web-based patient portal for parents of a child with type 1 diabetes: multicenter randomized controlled feasibility trial. *J. Med. Internet Res.* 19(8):e287, 2017 [htm](#)
- Chen L, Chuang LM, Chang CH, et al. Evaluating self-management behaviors of diabetic patients in a telehealthcare program: longitudinal study over 18 months. *J. Med. Internet Res.* 15(12):e266, 2013 [htm](#)
- Choi YS, Berry-Cabán C, Nance J. Telemedicine in paediatric patients with poorly controlled type 1 diabetes. *J. Telemed. Telecare* 19(4):219-221, 2013 [PubMed](#)
- Chow N, Shearer D, Aydin Plaa J, Pottinger B, Pawlowska M, White A, Tildesley HD. Blood glucose self-monitoring and internet diabetes management on A1C outcomes in patients with type 2 diabetes. *BMJ Open Diabetes Res. Care* 4(1):e000134, 2016 [htm](#)
- Crossen S, Glaser N, Sauers-Ford H, Chen S, Tran V, Marcin J. Home-based video visits for pediatric patients with poorly controlled type 1 diabetes. *J. Telemed. Telecare* [epub ahead of print], March 2019 [PubMed](#)
- Desveaux L, Agarwal P, Shaw J, et al. A randomized wait-list control trial to evaluate the impact of a mobile application to improve self-management of individuals with Type 2 diabetes: a study protocol. *BMC Med. Inform. Decision Making* 16(1):144, 2016 [htm](#)
- Eng DS, Lee JM. The promise and peril of mobile health applications for diabetes and endocrinology. *Pediatr. Diabetes* 14(4):231-238, 2013 [htm](#)
- Fritzen K, Basinska K, Rubio-Almanza M, et al. Pan-European economic analysis to identify cost savings for the health care systems as a result of integrating glucose monitoring based telemedical approaches into diabetes management. *J. Diabetes Sci. Technol.* [epub ahead of print], March 2019 [PubMed](#)
- Goh G, Tan NC, Malhotra R, et al. Short-term trajectories of use of a caloric-monitoring mobile phone app among patients with type 2 diabetes mellitus in a primary care setting. *J Med Internet Res.* 17(2): e33, 2015 [htm](#)
- Griffith ML, Siminerio L, Payne T, Krall J. A shared decision-making approach to telemedicine: engaging rural patients in glycemic management. *J. Clin. Med.* 5(11): E103, 2016 [htm](#)
- Hale K, Capra S, Bauer J. A framework to assist health professionals in recommending high-quality apps for supporting chronic disease self-management: illustrative assessment of type 2 diabetes apps. *JMIR Mhealth Uhealth* 3(3):e87, 2015 [htm](#)
- Harris MA, Freeman KA, Duke DC. Seeing is believing: using Skype to improve diabetes outcomes in youth. *Diabetes Care* 38(8):1427-1434, 2015 [pdf](#)
- Hirst JE, Mackillop L, Loerup L, et al. Acceptability and user satisfaction of a smartphone-based, interactive blood glucose management system in women with gestational diabetes mellitus. *J. Diabetes Sci. Technol.* 9(1):111-115, 2015 [htm](#)
- Ho K, Newton L, Boothe A, Novak-Lauscher H. Mobile digital access to a web-enhanced network (mDAWN): assessing the feasibility of mobile health tools for self-management of type-2 diabetes. *AMIA Annual Symp. Proc.* 2015:621-629, 2015 [htm](#)
- Jeong JY, Jeon JH, Bae KH, et al. Smart care based on telemonitoring and telemedicine for type 2 diabetes care: multi-center randomized controlled trial. *Telemed. e-Health* 24(8):604-613, 2018 [PubMed](#)
- Kaiserman K, Buckingham BA, Prakasam G, et al. Acceptability and utility of the MySentry remote glucose monitoring system. *J. Diabetes Sci. Technol.* 7(2): 356-361, 2013 [htm](#)
- Karhula T, Vuorinen A-L, Rääpysjärvi K, et al. Telemonitoring and mobile phone-based health coaching among Finnish diabetic and heart disease patients: randomized controlled trial. *J. Med. Internet Res.* 17(6):e153, 2015 [htm](#)
- Klobucar TF, Hibbs R, Jans P, Adams MR. Evaluating the effectiveness of an aggressive case management and home telehealth monitoring program for long-term control of A1C. *Prof. Case Manag.* 17(2):51-58, 2012 [htm](#)
- Klonoff DC. Improved outcomes from diabetes monitoring: the benefits of better adherence, therapy adjustments, patient education, and telemedicine support. *J. Diabetes Sci. Technol.* 6(3): 486-490, 2012 [pdf](#)
- Koopman RJ, Wakefield BJ, Johanning JL, et al. Implementing home blood glucose and blood pressure telemonitoring in primary care practices for patients with diabetes: lessons learned. *Telemed. e-Health* 20(3):253-260, 2014 [htm](#)
- Lee PA, Greenfield G, Pappas Y. Patients' perception of using telehealth for type 2 diabetes management: a phenomenological study. *BMC Health Serv. Res.* 18(1):549, 2018 [htm](#)

- Mackillop L, Hirst JE, Bartlett KJ, et al. Comparing the efficacy of a mobile phone-based blood glucose management system with standard clinic care in women with gestational diabetes: randomized controlled trial. *JMIR mHealth uHealth* 6(3):e71, 2018 [htm](#)
- Mackillop L, Loerup L, Bartlett K, et al. Development of a real-time smartphone solution for the management of women with or at high risk of gestational diabetes. *J. Diabetes Sci. Technol.* 8(6):1105-1114, 2014 [htm](#)
- Martín-Lesende I, Orruño E, Bilbao A, et al. Impact of telemonitoring home care patients with heart failure or chronic lung disease from primary care on healthcare resource use (the TELBIL study randomised controlled trial). *BMC Health Serv. Res.* 13:118, 2013 [htm](#)
- McMillan B, Easton K, Goyder E, et al. Reducing risk of type 2 diabetes after gestational diabetes: a qualitative study to explore the potential of technology in primary care. *Brit. J. Gen. Pract.* 68(669):e260-e267, 2018 [htm](#)
- Michaud TL, Siahpush M, Schwab RJ, et al. Remote patient monitoring and clinical outcomes for postdischarge patients with type 2 diabetes. *Popul. Health Manag.* [epub ahead of print], March 2018 [PubMed](#)
- Moreno L, Dale SB, Chen AY, Magee CA. Costs to Medicare of the Informatics for Diabetes Education and Telemedicine (IDEATel) home telemedicine demonstration: findings from an independent evaluation. *Diabetes Care* 32(7):1202-1204, 2009 [htm](#)
- Moy FM, Ray A, Buckley BS. Techniques of monitoring blood glucose during pregnancy for women with pre-existing diabetes. *Cochrane Database Syst. Rev.* 4:CD009613, 2014 [pdf](#)
- Nocella JM, Dickson VV, Cleland CM, Melkus GD. Structure, process, and outcomes of care in a telemonitoring program for patients with type 2 diabetes. *Patient Related Outcome Meas.* 7:19-28, 2016 [htm](#)
- Nundy S, Dick JJ, Chou CH, Nocon RS, Chin MH, Peek ME. Mobile phone diabetes project led to improved glycemic control and net savings for Chicago plan participants. *Health Affairs* 33(2):265-272, 2014 [htm](#)
- Nundy S, Mishra A, Hogan P, Lee SM, Solomon MC, Peek ME. How do mobile phone diabetes programs drive behavior change? Evidence from a mixed methods observational cohort study. *Diabetes Educ.* 40(6):806-819, 2014 [htm](#)
- Palmas W, Shea S, Starren J, et al. Medicare payments, healthcare service use, and telemedicine implementation costs in a randomized trial comparing telemedicine case management with usual care in medically underserved participants with diabetes mellitus (IDEATel). *J. Amer. Med. Inform. Assoc.* 17(2): 196–202, 2010 [htm](#)
- Park S, Burford S, Hanlen, L, et al. An integrated mHealth model for type 2 diabetes patients using mobile tablet devices. *J. Mob. Tech. Med.* 5(2):24–32, 2016 [htm](#)
- Peng W, Yuan S, Holtz BE. Exploring the challenges and opportunities of health mobile apps for individuals with type 2 diabetes living in rural communities. *Telemed. e-Health* 22(9):1-6, 2016 [htm](#)
- Polsky S, Garcetti R. CGM, pregnancy, and remote monitoring. *Diabetes Technol. Ther.* 19(S3):S49-S59, 2017 [htm](#)
- Porter J, Huggins CE, Truby H, Collins J. The effect of using mobile technology-based methods that record food or nutrient intake on diabetes control and nutrition outcomes: a systematic review. *Nutrients* 8(12): E815, 2016 [pdf](#)
- Quinn CC, Shardell MD, Terrin ML, et al. Mobile diabetes intervention for glycemic control in 45- to 64-year-old persons with type 2 diabetes. *J. Appl. Gerontol.* 35(2):227-243, 2016 [htm](#)
- Ramirez V, Johnson E, Gonzalez C, Ramirez V, Rubino B, Rossetti G. Assessing the use of mobile health technology by patients: an observational study in primary care clinics. *JMIR Mhealth Uhealth.* 4(2):e41, 2016 [htm](#)
- Rasmussen BS, Jensen LK, Froekjaer J, Kidholm K, Kensing F, Yderstraede KB. A qualitative study of the key factors in implementing telemedical monitoring of diabetic foot ulcer patients. *Int. J. Med. Inform.* 84(10):799-807, 2015 [htm](#)
- Rigla M, Hernando ME, Gómez EJ, et al. A telemedicine system that includes a personal assistant improves glycemic control in pump-treated patients with type 1 diabetes. *J. Diabetes Sci. Technol.* 1(4):505-510, 2007 [htm](#)
- Rigla M. Smart telemedicine support for continuous glucose monitoring: the embryo of a future global agent for diabetes care. *J. Diabetes Sci. Technol.* 1;5(1):63-67, 2011 [htm](#)
- Sama PR, Eapen ZJ, Weinfurt KP, Shah BR, Schulman KA. An evaluation of mobile health application tools. *JMIR Mhealth Uhealth* 2(2):e19, 2014 [htm](#)
- Scheibe M, Reichelt J, Bellmann M, Kirch W. Acceptance factors of mobile apps for diabetes by patients aged 50 or older: a qualitative study. *Med 2 0 4(1):e1*, 2015 [htm](#)
- Shea S, Kothari D, Teresi JA, et al. Social impact analysis of the effects of a telemedicine intervention to improve diabetes outcomes in an ethnically diverse, medically underserved population: findings from the IDEATel Study. *Amer. J. Public Health* 103(10):1888-1894, 2013 [htm](#)
- Shea S, Weinstock RS, Teresi JA, et al. A randomized trial comparing telemedicine case management with usual care in older, ethnically diverse, medically underserved patients with diabetes mellitus: 5 year results of the IDEATel study. *J. Amer. Med. Inform. Assoc.* 16(4):446-456, 2009 [htm](#)
- Skar JB, Garnweidner-Holme LM, Lukasse M, Terragni L. Women's experiences with using a smartphone app (the Pregnant+ app) to manage gestational diabetes mellitus in a randomised controlled trial. *Midwifery.* 2018 Mar;58:102-108. [PubMed](#)
- Stamp KD, Allen NA, Leher S, Zagarins SE, Welch G. Telehealth program for Medicaid patients with type 2 diabetes. *J. Managed Care Med.* 15:3-10, 2012 [htm](#)

- Stone RA, Rao RH, Sevick MA, et al. Active care management supported by home telemonitoring in veterans with type 2 diabetes: the DiaTel randomized controlled trial. *Diabetes Care* 33(3):478-484, 2010 [htm](#)
- Stone RA, Sevick MA, Rao RH, et al. The Diabetes Telemonitoring Study Extension: an exploratory randomized comparison of alternative interventions to maintain glycemic control after withdrawal of diabetes home telemonitoring. *J. Amer. Med. Inform. Assoc.* 19(6):973-9, 2012 [htm](#)
- Trief PM, Morin PC, Izquierdo R, et al. Depression and glycemic control in elderly ethnically diverse patients with diabetes: the IDEATel project. *Diabetes Care* 29(4):830-835, 2006 [htm](#)
- Trief PM, Teresi JA, Izquierdo R, et al. Psychosocial outcomes of telemedicine case management for elderly patients with diabetes: the randomized IDEATel trial. *Diabetes Care* 30(5):1266-1268, 2007 [htm](#)
- Vest BM, Hall VM, Kahn LS, Heider AR, Maloney N, Singh R. Nurse perspectives on the implementation of routine telemonitoring for high-risk diabetes patients in a primary care setting. *Prim. Health Care Res. Dev.* 18(1):3-13, 2017 [PubMed](#)
- Wakefield BJ, Koopman RJ, Keplinger LE, et al. Effect of home telemonitoring on glycemic and blood pressure control in primary care clinic patients with diabetes. *Telemed. e-Health* 20(3):199-205, 2014 [htm](#)
- Walker CL, Kopp M, Binford RM, Bowers CJ. Home telehealth interventions for older adults with diabetes. *Home Healthcare Now* 35(4):202-210, 2017 [PubMed](#)
- Wang G, Zhang Z, Feng Y, et al. Telemedicine in the management of type 2 diabetes mellitus. *Amer. J. Med. Sci.* 353(1):1-5, 2017 [PubMed](#)
- Warren R, Carlisle K, Mihala G, Scuffham PA. Effects of telemonitoring on glycaemic control and healthcare costs in type 2 diabetes: A randomised controlled trial. *J Telemed. Telecare* [epub ahead of print], January 2017 [htm](#)
- Weinstock RS, Teresi JA, Goland R, et al. Glycemic control and health disparities in older ethnically diverse underserved adults with diabetes: five-year results from the Informatics for Diabetes Education and Telemedicine (IDEATel) study. *Diabetes Care* 34(2):274-279, 2011 [htm](#)
- West SP, Laguna C, Trief PM, Izquierdo R, Weinstock RS. Goal setting using telemedicine in rural underserved older adults with diabetes: experiences from the Informatics for Diabetes Education and Telemedicine Project. *Telemed. e-Health* 16(4):405-416, 2010 [htm](#)

[RETURN TO TOPICS](#)

Home-based care for lung disease

--reviews

- Al Rajeh AM, Hurst JR. Monitoring of physiological parameters to predict exacerbations of chronic obstructive pulmonary disease (COPD): A systematic review. *J. Clin. Med.* 5(12): E108, 2016 [htm](#)
- Alwashmi M, Hawboldt J, Davis E, et al. The effect of smartphone interventions on patients with chronic obstructive pulmonary disease exacerbations: a systematic review and meta-analysis. *JMIR Mhealth Uhealth.* 4(3):e105, 2016.[htm](#)
- Ambrosino N, Vagheggini G, Mazzoleni S, Vitacca M. Telemedicine in chronic obstructive pulmonary disease. *Breathe* 12(4):350-356, 2016 [htm](#)
- Baroi S, McNamara RJ, McKenzie DK, Gandevia S, Brodie MA. Advances in remote respiratory assessments for people with chronic obstructive pulmonary disease: a systematic review. *Telemed. e-Health* 24(6):415-424, 2017 [PubMed](#)
- Chongmelaxme B, Huey Lee SW, Dhipayom T, et al. The effects of telemedicine on asthma control and patients' quality of life in adults: a systematic review and meta-analysis. *J. Allergy Clin. Immunol. Pract.* [epub ahead of print], July 2018 [PubMed](#)
- Cox NS, Alison JA, Rasekaba T, Holland AE. Telehealth in cystic fibrosis: a systematic review. *J. Telemed. Telecare*18(2):72-78, 2012 [htm](#)
- Gaveikaite V, Fischer C, Schonenberg H, et al. Telehealth for patients with chronic obstructive pulmonary disease (COPD): a systematic review and meta-analysis protocol. *BMJ Open* 8(9):e021865, 2018 [htm](#)
- Gorst SL, Armitage CJ, Brownsell S, Hawley MS. Home telehealth uptake and continued use among heart failure and chronic obstructive pulmonary disease patients: a systematic review. *Ann. Behav. Med.* 48(3):323-336, 2014 [htm](#).
- Hanlon H, Daines L, Campbell C, et al. Telehealth interventions to support self-management of long-term conditions: a systematic metareview of diabetes, heart failure, asthma, chronic obstructive pulmonary disease, and cancer. *J. Med. Internet Res* 19(5):e172, 2017 [htm](#)
- Jaana M, Paré G, Sicotte C. Home telemonitoring for respiratory conditions: a systematic review. *Amer. J. Manag. Care* 15(5):313-320, 2009 [htm](#)
- Kruse C, Pesek B, Anderson M, Brennan K, Comfort H. Telemonitoring to manage chronic obstructive pulmonary disease: systematic literature review. *JMIR Med. Inform.* 7(1):e11496, 2019 [htm](#)

- Lilholt PH, Witt Udsen F, Ehlers L, Hejlesen OK. Telehealthcare for patients suffering from chronic obstructive pulmonary disease: effects on health-related quality of life: results from the Danish 'TeleCare North' cluster-randomised trial. *BMJ Open* 7(5):e014587, 2017 [htm](#)
- Lundell S, Holmner Å, Rehn B, Nyberg A, Wadell K. Telehealthcare in COPD: A systematic review and meta-analysis on physical outcomes and dyspnea. *Respir. Med.* 109(1):11-26, 2015 [htm](#)
- McCabe C, McCann M, Brady AM. Computer and mobile technology interventions for self-management in chronic obstructive pulmonary disease. *Cochrane Database Syst. Rev.* 5:CD011425, 2017 [htm](#)
- McKinstry B. The use of remote monitoring technologies in managing chronic obstructive pulmonary disease. *QJM* 106(10):883-885, 2013. [htm](#)
- McLean S, Chandler D, et al. Telehealthcare for asthma: a Cochrane review. *Can. Med. Assoc. J.* 183(11): E733–E742, 2011 [htm](#)
- Pedone C, Lelli D. Systematic review of telemonitoring in COPD: an update. *Pneumonol. Alergologia Polska* 83(6):476-484, 2015 [htm](#)
- Zhao J, Zhai YK, Zhu WJ, Sun DX. Effectiveness of telemedicine for controlling asthma symptoms: a systematic review and meta-analysis. *Telemed. e-Health* 21(6):484-492, 2015 [PubMed](#)
- Yohannes AM. Telehealthcare management for patients with chronic obstructive pulmonary disease. *Expert Rev. Respir. Med.* 6(3):239-242, 2012 [htm](#)
- Zhao J, Zhai YK, Zhu WJ, Sun DX. Effectiveness of telemedicine for controlling asthma symptoms: a systematic review and meta-analysis. *Telemed. e-Health* 21(6):484-492, 2015 [PubMed](#)

[RETURN TO TOPICS](#)

--research and demonstrations

- Alwashmi M, Hawboldt J, Davis E, et al. The effect of smartphone interventions on patients with chronic obstructive pulmonary disease exacerbations: a systematic review and meta-analysis. *JMIR Mhealth Uhealth.* 4(3):e105, 2016. [htm](#)
- Ando H, Ashcroft-Kelso H, Halhead R, et al. Incorporating self-reported questions for telemonitoring to optimize care of patients with MND on noninvasive ventilation (MND OptNIVent). *Amyotroph. Lateral Scler. Frontotemporal Degener.* 26:1-12, 2019 [PubMed](#)
- Au DH, Macaulay DS, Jarvis JL, Desai US, Birnbaum HG. Impact of a telehealth and care management program for patients with chronic obstructive pulmonary disease. *Ann. Amer. Thorac. Soc.* 12(3):323-331, 2015 [htm](#)
- Berlinski A, Chervinskiy SK, Simmons AL, et al. Delivery of high-quality pediatric spirometry in rural communities: a novel use for telemedicine. *J. Allergy Clin. Immunol. Pract.* 6(3):1042-104, 2018 [PubMed](#)
- Brown W, Schmitz T, Scott DM, Friesner D. Is telehealth right for your practice and your patients with asthma? *J. Patient Exp.* 4(1):46-49, 2017 [htm](#)
- Burkow TM, Vognild LK, Johnsen E, et al. Comprehensive pulmonary rehabilitation in home-based online groups: a mixed method pilot study in COPD. *BMC Res. Notes* 8(1):766. 2015 [htm](#)
- Burton C, Pinnock H, McKinstry B. Changes in telemonitored physiological variables and symptoms prior to exacerbations of chronic obstructive pulmonary disease. *J. Telemed. Telecare* 21(1): 29-36, 2015 [htm](#)
- Chan DS, Callahan CW, Hatch-Pigott VB, Lawless A, Proffitt HL, Manning NE, Schweikert M, Malone FJ. Internet-based home monitoring and education of children with asthma is comparable to ideal office-based care: results of a 1-year asthma in-home monitoring trial. *Pediatrics* 119(3):569-578, 2007 [htm](#)
- Chen JJ, Cooper DM, Haddad F, Sladkey A, Nussbaum E, Radom-Aizik S. Tele-exercise as a promising tool to promote exercise in children with cystic fibrosis. *Frontiers Public Health* 6:269, 2018 [htm](#)
- Chen YJ, Narsavage GL, Frick KD, Petite TM. Home-telemonitoring lung cancer intervention in Appalachia: A pilot study. *Int. J. Chronic Dis. Ther.* 2(2):21-30, 2016 [htm](#)
- Donesky D, Selman L, McDermott K, Citron T, Howie-Esquivel J. Evaluation of the feasibility of a home-based TeleYoga intervention in participants with both chronic obstructive pulmonary disease and heart failure. *J. Altern. Complement. Med.* 23(9):713-721, 2017 [PubMed](#)
- Esteban C, Moraza J, Iriberry M, et al. Outcomes of a telemonitoring-based program (telEPOC) in frequently hospitalized COPD patients. *Int. J. Chron. Obstruct. Pulmon. Dis.* 11:2919-2930, 2016 [htm](#)
- Fairbrother P, Pinnock H, Hanley J, et al. Continuity, but at what cost? The impact of telemonitoring COPD on continuities of care: a qualitative study. *Prim., Care Respir. J.* 21(3):322-328, 2012 [htm](#)
- Farmer A, Williams V, Velardo C, et al. Self-management support using a digital health system compared with usual care for chronic obstructive pulmonary disease: randomized controlled trial. *J. Med. Internet Res.* 19(5):e144, 2017 [pdf](#)
- Franek J. Home telehealth for patients with chronic obstructive pulmonary disease (COPD): an evidence-based analysis. *Ontario Health Technol. Assess. Series* 12(11):1-58, 2012 [htm](#)
- Gellis ZD, Kenaley B, McGinty J, et al. Outcomes of a telehealth intervention for homebound older adults with heart or chronic respiratory failure: a randomized controlled trial. *Gerontologist* 52(4):541-552, 2012 [htm](#)

- Godden DJ, King G. Rational development of telehealth to support primary care respiratory medicine: patient distribution and organisational factors. *Prim. Care Respir J.* 20(4):415-420, 2011 [htm](#)
- Gorst SL, Coates E, Armitage CJ. "It's sort of a lifeline": Chronic obstructive pulmonary disease patients' experiences of home telehealth. *Health Psychol.* 35(1):60-68, 2016 [htm](#)
- Gustafson D, Wise M, Bhattacharya A, et al. The effects of combining Web-based eHealth with telephone nurse case management for pediatric asthma control: a randomized controlled trial. *J. Med. Internet Res.* 14(4):e101, 2012 [htm](#)
- Gustafson D, Wise M, Bhattacharya A, et al. The effects of combining Web-based eHealth with telephone nurse case management for pediatric asthma control: a randomized controlled trial. *J. Med. Internet Res.* 14(4):e101, 2012 [htm](#)
- Halterman JS, Fagnano M, Tajon RS, et al. Effect of the School-Based Telemedicine Enhanced Asthma Management (SB-TEAM) program on asthma morbidity: a randomized clinical trial. *JAMA Pediatr.* 172(3):e174938, 2018 [PubMed](#)
- Hardinge M, Rutter H, Velardo C, et al. Using a mobile health application to support self-management in chronic obstructive pulmonary disease: a six-month cohort study. *BMC Med. Inform. Decision Making* 15:46, 2015 [htm](#)
- Hernandez C, Mallow J, Narsavage GL. Delivering telemedicine interventions in chronic respiratory disease. *Breathe* 10(3): 198–212, 2014 [pdf](#)
- Hoas H, Andreassen HK, Lien LA, Hjalmsarsen A, Zanaboni P. Adherence and factors affecting satisfaction in long-term telerehabilitation for patients with chronic obstructive pulmonary disease: a mixed methods study. *BMC Med. Inform. Decis. Making* 16:26, 2016 [htm](#)
- Holland A. Telehealth reduces hospital admission rates in patients with COPD. *J. Physiother.* 59(2):129, 2013. [htm](#)
- Inskip JA, Lauscher HN, Li LC, et al. Patient and health care professional perspectives on using telehealth to deliver pulmonary rehabilitation. *Chron. Respir. Dis.* 1:1479972317709643, 2017 [htm](#)
- Jakobsen AS, Laursen LC, Østergaard B, et al. Hospital-admitted COPD patients treated at home using telemedicine technology in The Virtual Hospital Trial: methods of a randomized effectiveness trial. *Trials* 14:280, 2013 [htm](#)
- Jensen MH, Cichosz SL, Hejlesen OK, et al. Clinical impact of home telemonitoring on patients with chronic obstructive pulmonary disease. *Telemed. e-Health* 18(9):674-678, 2012 [htm](#)
- Kargiannakis M, Fitzsimmons DA, Bentley CL, Mountain GA. Does telehealth monitoring identify exacerbations of chronic obstructive pulmonary disease and reduce hospitalisations? An analysis of system data. *JMIR Med. Inform.* 5(1):e8, 2017 [htm](#)
- Lilholt PH, Witt Udsen F, Ehlers L, Hejlesen OK. Telehealthcare for patients suffering from chronic obstructive pulmonary disease: effects on health-related quality of life: results from the Danish 'TeleCare North' cluster-randomised trial. *BMJ Open* 7(5):e014587, 2017 [htm](#)
- Locke ER, Thomas RM, Woo DM, et al. Using video telehealth to facilitate inhaler training in rural patients with obstructive lung disease. *Telemed. e-Health* [epub ahead of print], July 2018 [PubMed](#)
- Magrabi F, Lovell NH, Henry RL, Celler BG. Designing home telecare: a case study in monitoring cystic fibrosis. *Telemed. e-Health* 11(6):707-719, 2005 [PubMed](#)
- Marquis N, Larivée P, Dubois MF, Tousignant M. Are improvements maintained after in-home pulmonary telerehabilitation for patients with chronic obstructive pulmonary disease? *Int. J. Telerehabil.* 6(2):21-30, 2015 [htm](#)
- Marquis N, Larivée P, Saey D, Dubois MF, Tousignant M. In-home pulmonary telerehabilitation for patients with chronic obstructive pulmonary disease: a pre-experimental study on effectiveness, satisfaction, and adherence. *Telemed. e-Health* 21(11):870-879, 2015 [htm](#)
- Martín-Lesende I, et al. Assessment of a primary care-based telemonitoring intervention for home care patients with heart failure and chronic lung disease. The TELBIL study. *BMC Health Serv Res.* 11:56, 2011 [htm](#)
- Martín-Lesende I, Orruño E, Bilbao A, et al. Impact of telemonitoring home care patients with heart failure or chronic lung disease from primary care on healthcare resource use (the TELBIL study randomised controlled trial). *BMC Health Serv. Res.* 13:118, 2013 [htm](#)
- Melvin E, Cushing A, Tam A, Kitada R, Manice M. Assessing the use of BreatheSmart® mobile technology in adult patients with asthma: a remote observational study. *BMJ Open Respir Res.* 4(1):e000204, 2017 [htm](#)
- Muñoz-Bonet JI, López-Prats JL, Flor-Macián EM, et al. Usefulness of telemedicine for home ventilator-dependent children. *J. Telemed. Telecare* [epub ahead of print] December, 2018 [PubMed](#)
- Odeh B, Kayyali R, Nabhani-Gebara S, Philip N, Robinson P, Wallace CR. Evaluation of a telehealth service for COPD and HF patients: Clinical outcome and patients' perceptions. *J. Telemed. Telecare* 21(5):292-297, 2015 [htm](#)
- Pedone C, Chiurco D, Scarlata S, Incalzi RA. Efficacy of multiparametric telemonitoring on respiratory outcomes in elderly people with COPD: a randomized controlled trial. *BMC Health Serv. Res.* 13:82, 2013 [htm](#)
- Perry TT, Halterman JS, Brown RH, et al. Results of an asthma education program delivered via telemedicine in rural schools. *Ann. Allergy Asthma Immunol.* 120(4):401-408, 2018 [PubMed](#)

- Pinnock H, Hanley J, McCloughan L, et al. Effectiveness of telemonitoring integrated into existing clinical services on hospital admission for exacerbation of chronic obstructive pulmonary disease: researcher blind, multicentre, randomised controlled trial. *Brit. Med. J.* 347:f6070, 2013 [htm](#)
- Rixon L, Hirani SP, Cartwright M, et al. A RCT of telehealth for COPD patient's quality of life: the Whole System Demonstrator evaluation. *Clin. Respir. J.* [epub ahead of print] August 2015 [htm](#)
- Shih J, Portnoy J. Tips for seeing patients via telemedicine. *Curr. Allergy Asthma Rep.* 18(10):50, 2018 [PubMed](#)
- Stickland M, Jourdain T, Wong EY, et al. Using telehealth technology to deliver pulmonary rehabilitation in chronic obstructive pulmonary disease patients. *Can. Respir. J.* 18(4):216-220, 2011 [htm](#)
- Sund ZM, Powell T, Greenwood R, Jarad NA. Remote daily real-time monitoring in patients with COPD --a feasibility study using a novel device. *Respir. Med.* 103(9):1320-1328, 2009 [htm](#)
- Svarre Jakobsen A, Laursen LC, Østergaard B, et al. Hospital-admitted COPD patients treated at home using telemedicine technology in The Virtual Hospital Trial: methods of a randomized effectiveness trial *Trials* 14: 280, 2013 [htm](#)
- Tabak M, Brusse-Keizer M, van der Valk P, et al. A telehealth program for self-management of COPD exacerbations and promotion of an active lifestyle: a pilot randomized controlled trial. *Int. J. Chron. Obstruct. Pulmon. Dis.* 9:935-944, 2014 [pdf](#)
- Tabak M, Brusse-Keizer M, van der Valk P, Hermens H, Vollenbroek-Hutten M. A telehealth program for self-management of COPD exacerbations and promotion of an active lifestyle: a pilot randomized controlled trial. *Int. J. Chron. Obstruct. Pulmon. Dis.* 9:935-944, 2014 [htm](#)
- Tura A, Santini P, Longo D, Quareni L. A telemedicine instrument for home monitoring of patients with chronic respiratory diseases. *Ann. Ist Super Sanita* 43(1):101-9, 2007 [pdf](#)
- Ure J, Pinnock H, Hanley J, et al. Piloting tele-monitoring in COPD: a mixed methods exploration of issues in design and implementation. *Prim. Care Respir. J.* 21(1):57-64, 2012 [htm](#)
- Vitacca M, Montini A, Comini L. How will telemedicine change clinical practice in chronic obstructive pulmonary disease? *Ther. Adv. Respir. Dis.* 12:1753465818754778, 2018 [PubMed](#)
- Williams V, Price J, Hardinge M, Tarassenko L, Farmer A. Using a mobile health application to support self-management in COPD: a qualitative study. *Brit. J. Gen. Pract.* 64(624):e392-400, 2014 [htm](#)
- Witt Udsen F, Lilholt PH, Hejlesen O, Ehlers L. Cost-effectiveness of telehealthcare to patients with chronic obstructive pulmonary disease: results from the Danish 'TeleCare North' cluster-randomised trial. *BMJ Open* 7(5):e014616, 2017 [htm](#)
- Witt Udsen F, Lilholt PH, Hejlesen OK, Ehlers LH. Subgroup analysis of telehealthcare for patients with chronic obstructive pulmonary disease: the cluster-randomized Danish Telecare North Trial. *Clinicoecon. Outcomes Res.* 9:391-401, 2017 [htm](#)

[RETURN TO TOPICS](#)

Home-based post-operative and wound care

- Armstrong KA, Semple JL, Coyte PC. Replacing ambulatory surgical follow-up visits with mobile app home monitoring: modeling cost-effective scenarios. *J. Med. Internet Res.* 16(9): e213, 2014 - [Htm](#)
- Atiyeh B, Dibo SA, Janom HH. Telemedicine and burns: an overview. *Ann. Burns Fire Disasters* 27(2): 87–93, 2014 [Htm](#)
- Barrett M, Larson A, Carville K, Ellis I. Challenges faced in implementation of a telehealth enabled chronic wound care system. *Rural and Remote Health* 9: 1154, 2009 [Htm](#)
- Binder B, Hofmann-Wellenhof R, Salmhofer W, Okcu A, Kerl H, Soyer HP. Teledermatological monitoring of leg ulcers in cooperation with home care nurses. *Arch. Dermatol.* 143(12):1511-1514, 2007 - [Htm](#)
- Boccaro D, Bekara F, Soussi S, et al. Ongoing development and evaluation of a method of telemedicine: burn care management with a smartphone. *J. Burn Care Res.* 39(4):580-584, 2018 [PubMed](#)
- Bragg DD, Edis H, Clark S, et al. Development of a telehealth monitoring service after colorectal surgery: A feasibility study. *World J Gastrointest Surg.* 9(9):193-199, 2017 [htm](#)
- Braun RP, Vecchiatti JL, Thomas L, et al. Telemedical wound care using a new generation of mobile telephones: a feasibility study. *Arch. Dermatol.* 141(2):254-258, 2005 [Htm](#) (requires free registration).
- Canadian Agency for Drugs and Technologies in Health. Personal wireless device use for wound care consultation: a review of safety, clinical benefits and guidelines. *CADTH Rapid Response Reports*, May, 2014 [Htm](#)
- Canadian Agency for Drugs and Technologies in Health. Telemedicine consultations for patients in long term care: a review of clinical effectiveness, cost-effectiveness, and guidelines. *CADTH Rapid Response Reports*, Oct. 2015 [Htm](#)
- Cleeland CS, Wang XS, Shi Q, et al. Automated symptom alerts reduce postoperative symptom severity after cancer surgery: a randomized controlled clinical trial. *J. Clin. Oncol.* 29(8):994-1000, 2011 [htm](#)
- Clemensen J, Larsen SB, Kirkevold M, Ejskjaer N. Treatment of diabetic foot ulcers in the home: video consultations as an alternative to outpatient hospital care. *Int. J. Telemed. Appl.*: 2008: 132890, 2008 [htm](#)

- DeAntonio JH, Kang HS, Cockrell HC, et al. Utilization of a handheld telemedicine device in postoperative pediatric surgical care. *J. Pediatr. Surg.* [epub ahead of print], January 2019 [PubMed](#)
- Dobke MK, Bhavsar D, Gosman A, De Neve J, De Neve B. Pilot trial of telemedicine as a decision aid for patients with chronic wounds. *Telemed. e-Health* 14(3):245-249, 2008 [PubMed](#)
- Dobke MK, Bhavsar D, Herrera F. Do telemedicine wound care specialist consults meet the needs of the referring physician? A survey of primary care providers. *Int. J. Telemed. Appl.* 2011:321376, 2011 [htm](#)
- Donelan K, Barreto EA, Sossong S, et al. Patient and clinician experiences with telehealth for patient follow-up care. *Amer. J. Managed Care* 25(1):40-44, 2019 [htm](#)
- Faett BL, Brienza DM, Geyer MJ, Hoffman LA. Teaching self-management skills in persons with chronic lower limb swelling and limited mobility: evidence for usability of telerehabilitation. *Int. J. Telerehab.* 5(1): 17-25, 2013 [htm](#)
- Faett BL, Geyer MJ, Hoffman LA, Brienza DM. Design and development of a telerehabilitation self-management program for persons with chronic lower limb swelling and mobility limitations: preliminary evidence. *Nurs. Res. Pract.* 2012:608059, 2012 [htm](#)
- Finkelstein JB, Cahill D, Kurtz MP, et al. The use of telemedicine for the postoperative urologic care of children: results of a pilot program. *J. Urol.* [epub ahead of print], January 2019 [PubMed](#)
- Gagnon M-P, Breton E, Courcy F, et al. The influence of a wound care teleassistance service on nursing practice: a case study in Quebec. *Telemed. e-Health* 20(6):593-600, 2014 [htm](#)
- Gray LC, Armfield NR, Smith AC. Telemedicine for wound care: current practice and future potential. *Wound Pract. Res.* 18(4):158-163, 2010 [htm](#)
- Gunter R, Fernandes-Taylor S, Mahnke A, et al. Evaluating patient usability of an image-based mobile health platform for postoperative wound monitoring. *JMIR Mhealth Uhealth* 4(3):e113, 2016 - [htm](#)
- Gunter RL, Chouinard S, Fernandes-Taylor S, et al. Current use of telemedicine for post-discharge surgical care: a systematic review. *J. Amer. Coll. Surg.* 222(5):915-927, 2016 [PubMed](#)
- Hasselberg M, Beer N, Blom A, Wallis LA, Laflamme L. Image-based medical expert teleconsultation in acute care of injuries. a systematic review of effects on information accuracy, diagnostic validity, clinical outcome, and user satisfaction. *PLoS One* 9(6): e98539, 2014 [htm](#)
- Hayashida K, Fujioka M, Senju C. Teledermatology may play a role in reducing severity of pressure ulcers in both rural and urban settings. *Wounds* 26(4):89-94, 2014 [htm](#)
- Hickey S, Gomez J, Meller B, et al. Interactive home telehealth and burns: A pilot study. *Burns* 43(6):1318-1321, 2017 [PubMed](#)
- Jones SM, Milroy C., Pickford MA. Telemedicine in acute plastic surgical trauma and burns. *Ann. Royal Coll. Surg. Engl.* 86(4): 239–242, 2004 [htm](#)
- Keeping-Burke L, Purden M, Frasure-Smith N, et al. Bridging the transition from hospital to home: effects of the VITAL telehealth program on recovery for CABG surgery patients and their caregivers. *Res. Nurs. Health* 36(6):540-553, 2013 [htm](#)
- Kelly SL, Steinberg EA, Suplee A, et al. Implementing a home-based telehealth group adherence intervention with adolescent transplant recipients. *Telemed. eHealth* [epub ahead of print], January 2019 [PubMed](#)
- Kolltveit BC, Gjengedal E, Graue M, Iversen MM, Thorne S, Kirkevold M. Telemedicine in diabetes foot care delivery: health care professionals' experience. *BMC Health Serv. Res.* 16:134, 2016 [htm](#)
- Lewis ER, Thomas CA, Wilson ML, Mbarika VWA. Telemedicine in acute-phase injury management: a review of practice and advancements. *Telemed. e-Health* 18(6): 434–445, 2012 [htm](#)
- Mousa AY, Broce M, Monnett S, et al. Results of telehealth electronic monitoring for post discharge complications and surgical site infections following arterial revascularization with groin incision. *Ann. Vasc. Surg.* [epub ahead of print] November, 2018 [PubMed](#)
- Netten JJV, Clark D, Lazzarini PA, Janda M, Reed LF. The validity and reliability of remote diabetic foot ulcer assessment using mobile phone images. *Sci. Rep.* 7(1):9480, 2017 [htm](#)
- Noble N, Mackenzie L, Carey M, et al. Cross-sectional survey to inform the development of a telehealth support model: a feasibility study for women undergoing breast cancer surgery. *Pilot Feasibility Studies* 5:46, 2019 [htm](#)
- Nocella JM, Dickson VV, Cleland CM, Melkus GD. Structure, process, and outcomes of care in a telemonitoring program for patients with type 2 diabetes. *Patient Related Outcome Meas.* 7:19-28, 2016 [htm](#)
- Nordheim LV, Haavind MT, Iversen MM. Effect of telemedicine follow-up care of leg and foot ulcers: a systematic review. *BMC Health Serv. Res.* 14:565, 2014 [htm](#)
- Parvizi D, Giretzlehner M, Dimberger J, et al. The use of telemedicine in burn care: development of a mobile system for TBSA documentation and remote assessment. *Ann. Burns Fire Disasters* 27(2): 94–100, 2014 [htm](#)
- Rasmussen BS, Froekjaer J, Bjerregaard MR, et al. A randomized controlled trial comparing telemedical and standard outpatient monitoring of diabetic foot ulcers. *Diabetes Care* 38(9):1723-1729, 2015 [htm](#)
- Rasmussen BS, Jensen LK, Froekjaer J, et al. A qualitative study of the key factors in implementing telemedical monitoring of diabetic foot ulcer patients. *Int. J. Med. Inform.* 84(10):799-807, 2015 [htm](#)
- Ratliff CR, Forch W. Telehealth for wound management in long-term care. *Ostomy Wound Manage* 51(9):40-45, 2005 [htm](#)

- Rees RS, Bashshur N. The effects of TeleWound management on use of service and financial outcomes. *Telemed. e-Health* 13(6):663-674, 2007 [htm](#)
- Sanger P, Hartzler A, Lober WB, Evans HL, Pratt W. Design considerations for post-acute care mHealth: Patient perspectives. *AMIA Ann. Symp. Proc.* 2014:1920-1929, 2014 [htm](#)
- Santamaria N, Kapp S. TeleWound care – providing remote wound assessment and treatment in the home care setting: current status and future directions. *Smart Homecare Tech. TeleHealth* 1:35-41, 2013 [htm](#)
- Smith MW, Hill ML, Hopkins KL, Kiratli BJ, Cronkite RC. A modeled analysis of telehealth methods for treating pressure ulcers after spinal cord injury. *Int. J. Telemed. Appl.* 2012:729492, 2012 [htm](#)
- Smith-Strøm H, Iversen MM, Graue M, Skeie S, Kirkevold M. An integrated wound-care pathway, supported by telemedicine, and competent wound management-Essential in follow-up care of adults with diabetic foot ulcers. *Int J Med Inform.* 94:59-66, 2016 [PubMed](#)
- Sood A, Granick MS, Trial C, et al. The role of telemedicine in wound care: a review and analysis of a database of 5,795 patients from a mobile wound-healing center in Languedoc-Roussillon, France. *Plast. Reconstr. Surg.* 138(3 Suppl):248S-56S, 2016 [PubMed](#)
- Stern A, Mitsakakis N, Paulden M, et al. Pressure ulcer multidisciplinary teams via telemedicine: a pragmatic cluster randomized stepped wedge trial in long term care. *BMC Health Serv. Res.* 14:83, 2014 [htm](#)
- van der Meij E, Huirne JA, Ten Cate AD, et al. A perioperative eHealth program to enhance postoperative recovery after abdominal surgery: process evaluation of a randomized controlled trial. *J. Med. Internet Res.* 20(1):e1, 2018 [htm](#)
- Wallis LA, Fleming J, Hasselberg M, Laflamme L, Lundin J. A smartphone app and cloud-based consultation system for burn injury emergency care. *PLoS One* 11(2): e0147253, 2016 [htm](#)
- Williams AM, Bhatti UF, Alam HB, Nikolian VC. The role of telemedicine in postoperative care. *mHealth* 4:11, 2018 [htm](#)
- Wilson LS, Maeder AJ. Recent directions in telemedicine: review of trends in research and practice. *Healthcare Inform. Res.* 21(4):213-222, 2015 - [htm](#)
- Young K, Gupta A, Palacios R. Impact of telemedicine in pediatric postoperative care. *Telemed. e-Health* [epub ahead of print] December, 2018 [PubMed](#)
- Zarchi K, Haugaard VB, Dufour DN, Jemec GB. Expert advice provided through telemedicine improves healing of chronic wounds: prospective cluster controlled study. *J. Invest. Dermatol.* 135(3):895-900, 2015 [htm](#) (requires free registration)

[RETURN TO TOPICS](#)

Home-based behavioral health care

- Abrahamsson N, Ahlund L, Ahrin E, Alfonsson S. Video-based CBT-E improves eating patterns in obese patients with eating disorder: A single case multiple baseline study. *J. Behav. Ther. Exp. Psychiatry* 61:104-112, 2018 [PubMed](#)
- Acierno R, Gros DF, Ruggiero KJ, et al. Behavioral activation and therapeutic exposure for posttraumatic stress disorder: a noninferiority trial of treatment delivered in person versus home-based telehealth. *Depress. Anxiety* 33(5):415-423, 2016 [PubMed](#)
- Acierno R, Knapp R, Tuerk P, et al. A non-inferiority trial of Prolonged Exposure for posttraumatic stress disorder: In person versus home-based telehealth. *Behav. Res. Ther.* 89:57-65, 2017 [PubMed](#)
- Adams N, Hamilton N, Nelson EL, Smith CE. Using telemedicine to identify depressive symptomatology rating scale in a home parenteral nutrition population. *J. Technol. Behav. Sci.* 2(3-4):129-139, 2017 [PubMed](#)
- Albert SM, Agimi Y, Martich GD. Interest in mental health care among patients making eVisits. *Amer. J. Managed Care* 21(12):867-872, 2015 [htm](#)
- Amirsadri A, Burns J, Pizzuti A, Arfken CL. Home-based telepsychiatry in US urban area. *Case Rep. Psychiatry* 2017:6296423, 2017 [htm](#)
- Arevian AC, Jeffrey J, Young AS, Ong MK. Opportunities for flexible, on-demand care delivery through telemedicine. *Psychiatr Serv.* 69(1):5-8, 2018 [PubMed](#)
- Baharav E, Reiser C. Using telepractice in parent training in early autism. *Telemed. e-Health* 16(6):727-731, 2010 [PubMed](#)
- Banbury A, Nancarrow S, Dart J, Gray L, Parkinson L. Telehealth interventions delivering home-based support group videoconferencing: systematic review. *J. Med. Internet Res.* 20(2):e25, 2018 [pdf](#)
- Ben-Zeev D, Scherer EA, Gottlieb JD, et al. mHealth for schizophrenia: Patient engagement with a mobile phone intervention following hospital discharge. *JMIR Ment. Health.* 3(3):e34, 2016 [htm](#)
- Boisvert M, Hall N. The use of telehealth in early autism training for parents: a scoping review. *Smart Homecare Tech. TeleHealth* 2:19–27, 2014 [htm](#)
- Choi NG, Hegel MT, Marti N, Marinucci ML, Sirrianni L, Bruce ML. Telehealth problem-solving therapy for depressed low-income homebound older adults. *Amer. J. Geriatr. Psychiatry* 22(3):263-271, 2014 [htm](#)

- Choi NG, Marti CN, Bruce ML, Hegel MT, Wilson NL, Kunik ME. Six-month postintervention depression and disability outcomes of in-home telehealth problem-solving therapy for depressed, low-income homebound older adults. *Depress. Anxiety* 31(8):653-661, 2014 [htm](#)
- Choi NG, Wilson NL, Sirrianni L, Marinucci ML, Hegel MT. Acceptance of home-based telehealth problem-solving therapy for depressed, low-income homebound older adults: qualitative interviews with the participants and aging-service case managers. *Gerontologist*. 54(4):704-713, 2014 [htm](#)
- Christensen DR, Landes RD, Jackson L, Marsch LA, Mancino MJ, Chopra MP, Bickel WK. Adding an Internet-delivered treatment to an efficacious treatment package for opioid dependence. *J. Consult. Clin. Psychol.* 82(6):964-972, 2014 [htm](#)
- Comer JS, Furr JM, Kerns CE, et al. Internet-delivered, family-based treatment for early-onset OCD: A pilot randomized trial. *J. Consult. Clin. Psychol.* 85(2): 178-186, 2017 [htm](#)
- Connolly KS, Vanderploeg PS, Kerns RD, Grant C, Sellinger J, Godleski L. Nationwide implementation and outcomes of cognitive behavioral therapy for chronic pain over clinical video teleconferencing. *J. Tech. Behav. Sci.* 3(1): 26-31, 2018 [Abstract](#)
- Crum KI, Comer JS. Using synchronous videoconferencing to deliver family-based mental healthcare. *J. Child Adolesc. Psychopharmacol.* 26(3):229-234, 2016 [htm](#)
- Durland L, Interian A, Pretzer-Aboff I, Dobkin RD. Effect of telehealth-to-home interventions on quality of life for individuals with depressive and anxiety disorders. *Smart Homecare Technology Telehealth* 2: 105-119, 2014 [htm](#)
- Egede LE, Walker RJ, Payne EH, et al. Effect of psychotherapy for depression via home telehealth on glycemic control in adults with type 2 diabetes: Subgroup analysis of a randomized clinical trial. *J. Telemed. Telecare* [epub ahead of print], January 2017 [PubMed](#)
- Eisner E, Bucci S, Berry N, et al. Feasibility of using a smartphone app to assess early signs, basic symptoms and psychotic symptoms over six months: A preliminary report. *Schizophr. Res.* [epub ahead of print], April 2019 [htm](#)
- Fisher E, Law E, Palermo TM, Eccleston C. Psychological therapies (remotely delivered) for the management of chronic and recurrent pain in children and adolescents. *Cochrane Database Syst Rev.* 3: CD011118, 2015 [htm](#)
- Flaherty LR, Daniels K, Luther J, Haas GL, Kasckow J. Reduction of medical hospitalizations in veterans with schizophrenia using home telehealth. *Psychiatry Res.* 16;255:153-155, 2017 [PubMed](#)
- Fletcher TL, Hogan JB, Keegan F, et al. Recent advances in delivering mental health treatment via video to home. *Curr Psychiatry Rep.* 20(8):56, 2018 [htm](#)
- Fletcher TL, Hogan JB, Keegan F, et al. Recent advances in delivering mental health treatment via video to home. *Curr. Psychiatry Rep.* 20(8):56, 2018 [PubMed](#)
- Ford JH 2nd, Alagoz E, Dinauer S, Johnson KA, Pe-Romashko K, Gustafson DH. Successful organizational strategies to sustain use of A-CHESS: a mobile intervention for individuals with alcohol use disorders. *J. Med. Internet Res.* 17(8):e201, 2015 [htm](#)
- Gainsbury S, Blaszczynski A. A systematic review of Internet-based therapy for the treatment of addictions. *Clin. Psychol. Rev.* 31(3):490-498, 2011 [PubMed](#)
- Genz A, Kirk G, Piggott D, Mehta SH, Linas BS, Westergaard RP. Uptake and acceptability of information and communication technology in a community-based cohort of people who inject drugs: implications for mobile health interventions. *JMIR Mhealth Uhealth* 3(2):e70, 2015 [pdf](#)
- Gros DF, Lancaster CL, López CM, Acierno R. Treatment satisfaction of home-based telehealth versus in-person delivery of prolonged exposure for combat-related PTSD in veterans. *J. Telemed. Telecare* [epub before print] September 2016 [PubMed](#)
- Gros DF, Yoder M, Tuerk PW, Lozano BE, Acierno R. Exposure therapy for PTSD delivered to veterans via telehealth: predictors of treatment completion and outcome and comparison to treatment delivered in person. *Behav. Ther.* 42(2):276-283, 2011 [PubMed](#)
- Gustafson DH, McTavish FM, Chih MY, Atwood AK, Johnson RA, Boyle MG, et al. A smartphone application to support recovery from alcoholism: a randomized clinical trial. *JAMA Psychiatry* 71(5):566-572, 2014 [htm](#)
- Haug S, Schaub MP, Venzin V, Meyer C, John U, Gmel G. A pre-post study on the appropriateness and effectiveness of a Web- and text messaging-based intervention to reduce problem drinking in emerging adults. *J. Med. Internet Res.* 15(9):e196, 2013 [htm](#)
- Hungerbuehler I, Valiengo L, Loch AA, Rössler W, Gattaz WF. Home-based psychiatric outpatient care through videoconferencing for depression: a randomized controlled follow-up trial. *JMIR Ment. Health* 3(3):e36, 2016 [htm](#)
- Hur JW, Kim B, Park D, Choi SW. A scenario-based cognitive behavioral therapy mobile app to reduce dysfunctional beliefs in individuals with depression: a randomized controlled trial. *Telemed. e-Health* [epub ahead of print], January 2018 [PubMed](#)
- Interian A, King AR, St Hill LM, Robinson CH, Damschroder LJ. Evaluating the implementation of home-based videoconferencing for providing mental health services. *Psychiatric Serv.* 69(1):69-75, 2018 [PubMed](#)
- Johnson K, Isham A, Shah DV, Gustafson DH. Potential roles for new communication technologies in treatment of addiction. *Curr Psychiatry Rep.* 13(5):390-397, 2011 [htm](#)
- Keoleian V, Polcin D, Galloway GP. Text messaging for addiction: a review. *J. Psychoactive Drugs* 47(2):158-176, 2015 [htm](#)

- Kim S, Shaw C, Williams KN, Hein M. Typology of technology-supported dementia care interventions from an in-home telehealth trial. *West J. Nurs. Res.* [epub ahead of print], January 2019 [PubMed](#)
- Kim E, Gellis ZD, Bradway C, Kenaley B. Key determinants to using telehealth technology to serve medically ill and depressed homebound older adults. *J. Gerontol. Soc. Work* [epub ahead of print], July 2018 [PubMed](#)
- Kim EH, Gellis ZD, Bradway CK, Kenaley B. Depression care services and telehealth technology use for homebound elderly in the United States. *Aging Ment. Health.* [epub ahead of print] November, 2018 [PubMed](#)
- Lindgren S, Wacker D, Suess A, et al. Telehealth and autism: treating challenging behavior at lower cost. *Pediatrics* 137 (Suppl 2):S167-175, 2016 [htm](#)
- Lindsay JA, Hudson S, Martin L, et al. Implementing video to home to increase access to evidence-based psychotherapy for rural veterans. *J. Tech. Behav. Sci.* 2(3): 140-148, 2017 [Abstract](#)
- Luxton DD, O'Brien K, McCann RA, Mishkind MC. Home-based telemental healthcare safety planning: what you need to know. *Telemed. e-Health* 18(8):629-633, 2012 [pdf](#)
- Luxton DD, Pruitt LD, O'Brien K, Kramer G. An evaluation of the feasibility and safety of a home-based telemental health treatment for posttraumatic stress in the U.S. military. *Telemed. e-Health* 21(11):880-886, 2015 [PubMed](#)
- Luxton DD, Pruitt LD, Wagner A, Smolenski DJ, Jenkins-Guarnieri MA, Gahm G. Home-based telebehavioral health for U.S. military personnel and veterans with depression: a randomized controlled trial. *J Consult Clin Psychol.* 84(11):923-934, 2016 [PubMed](#)
- Marsch LA, Dallery J. Advances in the psychosocial treatment of addiction: the role of technology in the delivery of evidence-based psychosocial treatment. *Psychiatr. Clin. North Amer.* 35(2):481-493, 2012 [htm](#)
- Morland LA, Poizner JM, Williams KE, Masino TT, Thorp SR. Home-based clinical video teleconferencing care: clinical considerations and future directions. *Int. Rev. Psychiatry* 27(6):504–512, 2015 [PubMed](#)
- Nair U, Armfield NR, Chatfield MD, Edirippulige S. The effectiveness of telemedicine interventions to address maternal depression: A systematic review and meta-analysis. *J. Telemed. Telecare* 24(10):639-650, 2018 [PubMed](#)
- Nevedal DC, Wang C, Oberleitner L, Schwartz S, Williams AM. Effects of an individually tailored Web-based chronic pain management program on pain severity, psychological health, and functioning. *J. Med. Internet Res.* 15(9):e201, 2013 [htm](#)
- Pratt SI, Naslund JA, Wolfe RS, Santos M, Bartels SJ. Automated telehealth for managing psychiatric instability in people with serious mental illness. *J. Ment. Health* 24(5):261-265, 2015 [htm](#)
- Pruitt LD, Luxton DD, Shore P. Additional clinical benefits of home-based telemental health treatments. *Prof. Psychol Res. Pract.* 45(5): 340-346, 2014 [Abstract](#)
- Pruitt LD, Vuletic S, Smolenski DJ, Wagner A, Luxton DD, Gahm GA. Predicting post treatment client satisfaction between behavioural activation for depression delivered either in-person or via home-based telehealth. *J. Telemed. Telecare* [epub ahead of print], January 2018 [PubMed](#)
- Rose GL, Skelly JM, Badger GJ, Naylor MR, Helzer JE. Interactive voice response for relapse prevention following cognitive-behavioral therapy for alcohol use disorders: a pilot study. *Psychol. Serv.* 9(2):174-184, 2012 [htm](#)
- Ruble LA, McGrew JH, Toland MD, Dalrymple NJ, Jung LA. A randomized controlled trial of COMPASS web-based and face-to-face teacher coaching in autism. *J. Consult. Clin. Psychol.* 81(3):566-572, 2013 [htm](#)
- Santa Ana EJ, Stallings DL, Rounsaville BJ, Martino S. Development of an in-home telehealth program for outpatient veterans with substance use disorders. *Psychol. Serv.* 10(3):304-314, 2013 [PubMed](#)
- Schulze N, Reuter SC, Kuchler I, et al. Differences in attitudes toward online interventions in psychiatry and psychotherapy between health care professionals and nonprofessionals: a survey. *Telemed. e-Health* [epub ahead of print] November, 2018 [PubMed](#)
- Seyffert M, Lagisetty P, Landgraf J, et al. Internet-delivered cognitive behavioral therapy to treat insomnia: a systematic review and meta-analysis. *PLoS One* 11(2):e0149139, 2016 [htm](#)
- Sheeran T, Rabinowitz T, Lotterman J, et al. Feasibility and impact of telemonitor-based depression care management for geriatric homecare patients. *Telemed. e-Health* 17(8): 620–626, 2011. [htm](#)
- Shore P, Goranson A, Ward MF, Lu MW. Meeting veterans where they're @: a VA Home-Based Telemental Health (HBTMH) pilot program. *Int. J. Psychiatry Med.* 48(1):5-17, 2014 [PubMed](#)
- Shore P, Goranson A, Ward MF, Lu MW. Meeting veterans where they're @: a VA Home-Based Telemental Health (HBTMH) pilot program. *Int. J. Psychiatry Med.* 48(1):5-17, 2014 [PubMed](#)
- Shulman M, John M, Kane JM. Home-based outpatient telepsychiatry to improve adherence with treatment appointments: a pilot study. *Psychiatric Serv.* 68(7):743-746, 2017 [htm](#)
- Siemer CP, Fogel J, Van Voorhees BW. Telemental health and web-based applications in children and adolescents. *Child. Adolesc. Psychiatr. Clin. North Amer.* 20(1):135-153, 2011 [htm](#)
- Smith GC, Egbert N, Dellman-Jenkins M, Nanna K, Palmieri PA. Reducing depression in stroke survivors and their informal caregivers: a randomized clinical trial of a Web-based intervention. *Rehabil. Psychol.* 57(3):196-206, 2012 [htm](#)
- Strachan M, Gros DF, Yuen E, Ruggiero KJ, Foa EB, Acierno R. Home-based telehealth to deliver evidence-based psychotherapy in veterans with PTSD. *Contemp. Clin. Trials* 33(2):402-409, 2012 [htm](#)

- Steinkamp JM, Goldblatt N, Borodovsky JT, et al. Technological interventions for medication adherence in adult mental health and substance use disorders: a systematic review. *JMIR Ment. Health* 6(3):e12493, 2019 [htm](#)
- Substance Abuse and Mental Health Services Administration. Using technology-based therapeutic tools in behavioral health services. Treatment Improvement Protocol Series #60. SAMHSA, 2015 [htm](#)
- Vismara LA, Young GS, Rogers SJ. Telehealth for expanding the reach of early autism training to parents. *Autism Res. Treat.* 2012:121878, 2012 [htm](#)
- Whealin JM, King L, Shore P, Spira JL. Diverse veterans' pre- and post-intervention perceptions of home telemental health for posttraumatic stress disorder delivered via tablet. *Int. J. Psychiatry Med.* 52(1):3-20, 2017 [PubMed](#)
- Yuen EK, Gros DF, Price M, Zeigler S, Tuerk PW, Foa EB, Acierno R. Randomized controlled trial of home-based telehealth versus in-person prolonged exposure for combat-related PTSD in veterans: preliminary results. *J. Clin. Psychol.* 71(6):500-512, 2015 [htm](#)

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Other home-based applications for ambulatory patients

--chronic disease self-management and health coaching

- Adamse C, Dekker-Van Weering MG, van Etten-Jamaludin FS, Stuiver MM. The effectiveness of exercise-based telemedicine on pain, physical activity and quality of life in the treatment of chronic pain: A systematic review. *J. Telemed. Telecare* 24(8):511-526, 2018 [PubMed](#)
- Ahmed S, Ernst P, Bartlett SJ, et al. The effectiveness of web-based asthma self-management system, My Asthma Portal (MAP): a pilot randomized controlled trial. *J. Med. Internet Res.* 18(12):e313, 2016 [htm](#)
- Albahri AS, Zaidan AA, Albahri OS, Zaidan BB, Alsalem MA. Real-time fault-tolerant mHealth system: comprehensive review of healthcare services, opens issues, challenges and methodological aspects. *Med Syst.* 42(8):137, 2018 [PubMed](#)
- Allen JK, Dennison-Himmelfarb CR, Szanton SL, et al. Community Outreach and Cardiovascular Health (COACH) Trial: a randomized, controlled trial of nurse practitioner/community health worker cardiovascular disease risk reduction in urban community health centers. *Circ. Cardiovasc. Qual. Outcomes* 4(6):595-602, 2011. [htm](#)
- Arambepola C, Ricci-Cabello I, Manikavasagam P, et al. The impact of automated brief messages promoting lifestyle changes delivered via mobile devices to people with type 2 diabetes: A systematic literature review and meta-analysis of controlled trials. *J. Med. Internet Res.* 18(4):e86, 2016 [htm](#)
- Armoiry X, Sturt J, Phelps EE, et al. Digital clinical communication for families and caregivers of children or young people with short- or long-term conditions: rapid review. *J. Med. Internet Res.* 20(1):e5, 2018 [htm](#)
- Ayre J, Bonner C, Bramwell S, et al. Factors for supporting primary care physician engagement with patient apps for type 2 diabetes self-management that link to primary care: interview study. *JMIR mHealth uHealth* 7(1):e11885, 2019 [htm](#)
- Backonja U, Kneale L, Demiris G, Thompson HJ. Senior tech: the next generation: health informatics solutions for older adults living in the community. *J. Gerontol. Nurs.* 42(1):2-3, 2016 [pdf](#)
- Badawy SM, Cronin RM, Hankins J, et al. Patient-centered eHealth interventions for children, adolescents, and adults with sickle cell disease: systematic review. *J. Med. Internet Res.* 20(7):e10940, 2018 [htm](#)
- Bakas T, Sampsel D, Israel J, et al. Using telehealth to optimize healthy independent living for older adults: A feasibility study. *Geriatr. Nurs.* [epub ahead of print], May 2018 [PubMed](#)
- Bendixen RM, Fairman AD, Karavolis M, Sullivan C, Parmanto B. A user-centered approach: understanding client and caregiver needs and preferences in the development of mHealth apps for self-management. *JMIR mHealth uHealth* 5(9):e141, 2017 [htm](#)
- Benson GA, Sidebottom A, Sillah A, et al. Reach and effectiveness of the HeartBeat Connections telemedicine pilot program. *J. Telemed. Telecare* 24(3):216-223, 2018 [PubMed](#)
- Bergström AL, Hanson E. An integrative review of information and communication technology based support interventions for carers of home dwelling older people. *Technol. Disabil.* 29(1-2): 1–14, 2017 [htm](#)
- Berrouiguet S, Baca-García E, Brandt S, Walter M, Courtet P. Fundamentals for future mobile-health (mhealth): a systematic review of mobile phone and web-based text messaging in mental health. *J. Med. Internet Res* 18(6):e135, 2016 [htm](#)
- Bhattarai P, Phillips JL. The role of digital health technologies in management of pain in older people: An integrative review. *Arch. Gerontol. Geriatr.* 68:14-24, 2016 [htm](#)
- Blackman KC, Zoellner J, Berrey LM, et al. Assessing the internal and external validity of mobile health physical activity promotion interventions: a systematic literature review using the RE-AIM framework. *J. Med. Internet Res.* 15(10):e224, 2013 [htm](#)
- Boer LM, van der Heijden M, van Kuijk NM, et al. Validation of ACCESS: an automated tool to support self-management of COPD exacerbations. *Int. J. Chron. Obstruct. Pulmon. Dis.* 13:3255-3267, 2018 [htm](#)

- Bosworth HB, Olsen MK, McCant F, et al. Telemedicine cardiovascular risk reduction in veterans: The CITIES trial. *Amer. Heart J.* 199:122-129, 2018 [PubMed](#)
- Bosworth HB, Olsen MK, McCant F, et al. Telemedicine cardiovascular risk reduction in veterans: The CITIES trial. *Amer. Heart J.* 199:122-129, 2018 [PubMed](#)
- Brandt CJ, Sogaard GI, Clemensen J, Søndergaard J, Nielsen JB. Determinants of successful eHealth coaching for consumer lifestyle changes: qualitative interview study among health care professionals. *J. Med. Internet Res.* 20(7):e237, 2018 [htm](#)
- Carey EP, Frank JW, Kerns RD, Ho PM, Kirsh SR. Implementation of telementoring for pain management in Veterans Health Administration: Spatial analysis. *J. Rehabil. Res. Dev.* 53(1):147–156, 2016 [htm](#)
- Chi NC, Demiris G. The roles of telehealth tools in supporting family caregivers: current evidence, opportunities, and limitations. *J. Gerontol. Nurs.* 43(2):3-5, 2017 [htm](#)
- Connolly KS, Vanderploeg PS, Kerns RD, Grant C, Sellinger J, Godleski L. Nationwide implementation and outcomes of cognitive behavioral therapy for chronic pain over clinical video teleconferencing. *J. Tech. Behav. Sci.* 3(1): 26-31, 2018 [Abstract](#)
- Coughlin SS, Carbone LD, Heboyan V, Williams LB, Hatzigeorgiou C, Rangachari P, De Leo G. Use of My HealthVet patient web portal among veterans seen for diabetes mellitus at a medical center in the southeastern United States. *mHealth* 3:50, 2017 [htm](#)
- Crico C, Renzi C, Graf N, et al. mHealth and telemedicine apps: in search of a common regulation. *eCancer Med. Sci.* 12:853, 2018 [htm](#)
- Davis AM, Gallagher K, Taylor M, Canter K, Gillette MD, Wambach K, Nelson EL. An in-home intervention to improve nutrition, physical activity, and knowledge among low-income teen mothers and their children: results from a pilot study. *J. Dev. Behav. Pediatr.* 34(8):609-615, 2013 [htm](#)
- Davis MM, Freeman M, Kaye J, Vuckovic N, Buckley DI. A systematic review of clinician and staff views on the acceptability of incorporating remote monitoring technology into primary care. *Telemed. e-Health* 20(5):428-438, 2014 [htm](#)
- Dias KN, Welfer D, Cordeiro d'Ornellas M, Pereira Haygert CJ, Dotto GN. Use of flowchart for automation of clinical protocols in mHealth. *Stud. Health Technol. Inform.* 245:59-63, 2017 [PubMed](#)
- Dixon P, Hollinghurst S, Edwards L, et al. Cost-effectiveness of telehealth for patients with raised cardiovascular disease risk: evidence from the Healthlines randomised controlled trial. *BMJ Open.* 6(8):e012352, 2016 [htm](#)
- Farzandipour M, Nabovati E, Sharif R, Arani MH, Anvari S. Patient self-management of asthma using mobile health applications: a systematic review of the functionalities and effects. *Appl. Clin. Inform.* 8(4):1068-1081, 2017 [htm](#)
- Fisher E, Law E, Palermo TM, Eccleston C. Psychological therapies (remotely delivered) for the management of chronic and recurrent pain in children and adolescents. *Cochrane Database Syst Rev.* 3: CD011118, 2015 [htm](#)
- Gardner MR, Jenkins SM, O'Neil DA, Wood DL, Spurrier BR, Pruthi S. Perceptions of video-based appointments from the patient's home: A patient survey. *Telemed. e-Health* 21(4): 281-285, 2015 [htm](#)
- George L, Cross R. Telemedicine platform myIBDcoach reduces hospitalisations and outpatient gastroenterology visits in patients with IBD. *BMJ Evid. Based Med.* [epub ahead of print], July 2018 [PubMed](#)
- Geuens J, Geurts L, Swinnen TW, et al. Mobile health features supporting self-management behavior in patients with chronic arthritis: mixed-methods approach on patient preferences. *JMIR mHealth uHealth* 7(3):e12535, 2019 [htm](#)
- Gibbs J, Gkatzidou V, Tickle L, et al. 'Can you recommend any good STI apps?' A review of content, accuracy and comprehensiveness of current mobile medical applications for STIs and related genital infections. *Sex. Transm. Infect.* 93(4):234-235, 2017 [htm](#)
- Grant L, Rockwood T, Stennes L. Client satisfaction with telehealth in assisted living and homecare. *Telemed. eHealth* 21(12): 987-991, 2015 [PubMed](#)
- Greenwood DA, Gee PM, Fatkin KJ, Peeples M. A systematic review of reviews evaluating technology-enabled diabetes self-management education and support. *J. Diabetes Sci. Technol.* 175:1932296817713506, 2017 [htm](#)
- Guo Y, Albright D. The effectiveness of telehealth on self-management for older adults with a chronic condition: A comprehensive narrative review of the literature. *J. Telemed. Telecare* [epub ahead of print], Jan. 2017 [htm](#)
- Hamine S, Gerth-Guyette E, Faulx D, Green BB, Ginsburg AS. Impact of mHealth chronic disease management on treatment adherence and patient outcomes: a systematic review. *J. Med. Internet Res.* 17(2):e52, 2015 [htm](#)
- Hanlon H, Daines L, Campbell C, et al. Telehealth interventions to support self-management of long-term conditions: a systematic metareview of diabetes, heart failure, asthma, chronic obstructive pulmonary disease, and cancer. *J. Med. Internet Res* 19(5):e172, 2017 [htm](#)
- Hommel KA, Hente E, Herzer M, Ingerski LM, Denson LA. Telehealth behavioral treatment for medication nonadherence: a pilot and feasibility study. *Eur. J. Gastroenterol. Hepatol.* 25(4):469-473, 2013 [htm](#)
- Huang Z, Soljak M, Boehm BO, Car J. Clinical relevance of smartphone apps for diabetes management: A global overview. *Diabetes Metab. Res. Rev.* 34(4):e2990, 2018 [PubMed](#)
- Huh J, Le T, Reeder B, Thompson HJ, Demiris G. Perspectives on wellness self-monitoring tools for older adults. *Int. J. Med. Inform.* 82(11):1092-1103, 2013 [htm](#)

Jamison RN, Jurcik DC, Edwards RR, Huang CC, Ross EL. A pilot comparison of a smartphone app with or without 2-way messaging among chronic pain patients: who benefits from a pain app? *Clin. J. Pain* 33(8):676-686, 2017 [pdf](#)

Johnson KE, Alencar MK, Coakley KE, et al. Telemedicine-based health coaching is effective for inducing weight loss and improving metabolic markers. *Telemed. e-Health* [epub ahead of print], May 2018 [PubMed](#)

Jonkman NH, van Schooten KS, Maier AB, Pijnappels M. eHealth interventions to promote objectively measured physical activity in community-dwelling older people. *Maturitas* 113:32-39, 2018 [PubMed](#)

Kebede MM, Liedtke TP, Möllers T, Pischke CR. Characterizing active ingredients of eHealth interventions targeting persons with poorly controlled type 2 diabetes mellitus using the behavior change techniques taxonomy: scoping review. *J. Med. Internet Res.* 19(10):e348, 2017 [htm](#)

Kitsiou S, Paré G, Jaana M, Gerber B. Effectiveness of mHealth interventions for patients with diabetes: an overview of systematic reviews. *PLOS One* 12(3):e0173160, 2017 [pdf](#)

Krukowski RA, DiLillo V, Ingle K, Harvey JR, West DS. Design and methods of a synchronous online motivational interviewing intervention for weight management. *JMIR Res. Protoc.* 5(2):e69, 2016 [htm](#) Kurti AN, Davis DR, Redner R, et al. A review of the literature on remote monitoring technology in incentive-based interventions for health-related behavior change. *Transl. Issues Psychol. Sci.* 2(2):128-152, 2016 [htm](#)

Leth S, Hansen J, Nielsen OW, Dinesen B. Evaluation of commercial self-monitoring devices for clinical purposes: results from the future patient trial, phase I. *Sensors* 17(1): E211, 2017 [PubMed](#)

Levine DM, Dixon RF, Linder JA. Association of structured virtual visits for hypertension follow-up in primary care with blood pressure control and use of clinical services. *J. Gen. Intern. Med.* [epub ahead of print], April 2018 [PubMed](#)

Lieberman G, Naylor MR. Interactive voice response technology for symptom monitoring and as an adjunct to the treatment of chronic pain. *Transl. Behav. Med.* 2(1):93-101, 2012 [htm](#)

Lustig TA, Olson S. Fostering independence, participation, and healthy aging through technology: Workshop summary. Institute of Medicine (IOM) and the National Research Council, 2013 [htm](#)

Maheu MM, Nicolucci V, Pulier ML, Wall KM, Frye TJ, Hudlicka E. The Interactive Mobile App Review Toolkit (IMART): a clinical practice-oriented system. *J. Tech. Behav. Sci.* 1(1): 3-15, 2017 [Abstract](#)

Mandl KD. Connected apps in healthcare 2017: A look at trends and provider attitudes in a growing market. KLAS Enterprises, LLC, December 2016 [pdf](#)

Mathersul DC, Mahoney LA, Bayley PJ. Tele-yoga for chronic pain: current status and future directions. *Global Adv. Health Med.* 7:2164956118766011, 2018 [htm](#)

Matthew-Maich N, Harris L, Ploeg J, et al. Designing, implementing, and evaluating mobile health technologies for managing chronic conditions in older adults: a scoping review. *JMIR Mhealth Uhealth* 4(2):e29, 2016 [htm](#)

McKoy J, Fitzner K, Margetts M, et al. Are telehealth technologies for hypertension care and self-management effective or simply risky and costly? *Popul. Health Manag.* 18(3):192-202, 2015 [htm](#)

Mehra S, Visser B, Cila N, et al. Supporting older adults in exercising with a tablet: a usability study. *JMIR Hum. Factors* 6(1):e11598, 2019 [htm](#)

Mobile Integrated Healthcare Practice Collaborative. Principles for establishing a mobile integrated healthcare practice. Medtronic Philanthropy, 2014 [pdf](#)

MobileHelp, Inc. The future of home health is here: How home health agencies can bridge the care gap for ACOs and hospital networks. MobileHelp White Paper, January 2016 [htm](#)

Morita PP, Yeung MS, Ferrone M, et al. A patient-centered mobile health system that supports asthma self-management (BREATHE): design, development, and utilization. *JMIR mHealth uHealth* 7(1):e10956, 2019 [htm](#)

Morrison D, Mair FS, Yardley L, Kirby S, Thomas M. Living with asthma and chronic obstructive airways disease: Using technology to support self-management - An overview. *Chron. Respir. Dis.* 14(4):407-419, 2017 [htm](#)

Mosa AS, Yoo I, Sheets L. A systematic review of healthcare applications for smartphones. *BMC Med. Inform. Decis. Making* 12:67, 2012 [htm](#)

Mosnaim G, Li H, Martin M, et al. A tailored mobile health intervention to improve adherence and asthma control in minority adolescents. *J. Allergy Clin. Immunol. Pract.* 3(2):288-290, 2015 [htm](#)

Noah B, Keller MS, Mosadeghi S, et al. Impact of remote patient monitoring on clinical outcomes: an updated meta-analysis of randomized controlled trials. *NPJ Digital Medicine* 1:2, 2017 [pdf](#)

Ostrovsky A. Community-based health coaches and care coordinators reduce readmissions using information technology to identify and support at-risk Medicare patients after discharge. *AHRQ Health Care Innovations Exchange Service Delivery Innovation Profile*, 2014 [htm](#)

Patel S, Arya M. The BUS framework: A comprehensive tool in creating an mHealth app utilizing behavior change theories, user-centered design, and social marketing. *J. Mob. Tech. Med.* 6(1):39-45, 2017 [htm](#)

Pekmezaris R, Nouryan CN, Schwartz R, et al. A randomized controlled trial comparing telehealth self-management to standard outpatient management in underserved black and Hispanic patients living with heart failure. *Telemed. e-Health* [epub ahead of print] November, 2018 [PubMed](#)

Piette JD, Rosland AM, Marinec NS, et al. Engagement with automated patient monitoring and self-management support calls: experience with a thousand chronically ill patients. *Med Care* 51(3):216-223, 2013 [htm](#)

- Pludwinski S, Ahmad F, Wayne N, Ritvo P. Participant experiences in a smartphone-based health coaching intervention for type 2 diabetes: A qualitative inquiry. *J. Telemed. Telecare* 22(3):172-178, 2016 [htm](#)
- Powell RE, Henstenburg JM, Cooper G, Hollander JE, Rising KL. Patient perceptions of telehealth primary care video visits. *Annals Fam. Med.* 15(3):225-229, 2017 [htm](#)
- Przybyla SM, Eliseo-Arras RK, Krawiec G, Gower E, Dermen K. Feasibility and acceptability of a smartphone app for daily reports of substance use and antiretroviral therapy adherence among HIV-infected adults. *AIDS Res. Treat.* 2016:9510172, 2016 [htm](#)
- Reynoldson C, Stones C, Allsop M, Gardner P, Bennett MI, Closs SJ, Jones R, Knapp P. Assessing the quality and usability of smartphone apps for pain self-management. *Pain Med.* 15(6):898-909, 2014 [htm](#)
- Ricci-Cabello I, Bobrow K, Islam SMS, et al. Examining development processes for text messaging interventions to prevent cardiovascular disease: systematic literature review. *JMIR mHealth uHealth* 7(3):e12191, 2019 [htm](#)
- Richardson JE, Reid MC. The promises and pitfalls of leveraging mobile health technology for pain care. *Pain Med.* 14(11):1621-1626, 2013 [htm](#)
- Rosner MH, Lew SQ, Conway P, et al. Perspectives from the Kidney Health Initiative on advancing technologies to facilitate remote monitoring of patient self-care in RRT. *Clin. J. Amer. Soc. Nephrol.* 12(11):1900-1909, 2017 [htm](#)
- Sakakibara BM, Ross E, Arthur G, et al. Using mobile-health to connect women with cardiovascular disease and improve self-management. *Telemed. e-Health* 23(3): 233-239, 2017 [PubMed](#)
- Salesforce Research. Connected Patient Report. mHealth Intelligence White Paper, March 2017 [pdf](#)
- Salisbury C, O' Cathain A, Thomas C, et al. Telehealth for patients at high risk of cardiovascular disease: pragmatic randomised controlled trial. *Brit. Med. J* 353:i2647, 2016 [htm](#)
- Sapci AH, Sapci HA. Digital continuous healthcare and disruptive medical technologies: m-Health and telemedicine skills training for data-driven healthcare. *J. Telemed. Telecare* [epub ahead of print] August 2018 [PubMed](#)
- Schnall R, Bakken S, Rojas M, Travers J, Carballo-Dieguez A. mHealth Technology as a persuasive tool for treatment, care and management of persons living with HIV. *AIDS Behav.* 19 (Suppl 2):81-89, 2015 [htm](#)
- Schnall R, Cho H, Mangone A, Pichon A, Jia H. Mobile health technology for improving symptom management in low income persons living with HIV. *AIDS Behav.* 22(10):3373-3383, 2018 [htm](#)
- Setiawan IMA, Zhou L, Alfikri Z, et al. An adaptive mobile health system to support self-management for persons with chronic conditions and disabilities: usability and feasibility studies. *JMIR Form. Res.* 3(2):e12982, 2019 [htm](#) PA
- Shah MN, McDermott R, Gillespie SM, Philbrick EB, Nelson D. Potential of telemedicine to provide acute medical care for adults in senior living communities. *Acad. Emerg. Med.* 20(2):162-168, 2013 [htm](#)
- Sharma U, Clarke M. Nurses' and community support workers' experience of telehealth: a longitudinal case study. *BMC Health Serv. Res.* 14: 164, 2014 [htm](#)
- Shaw RJ, Kaufman MA, Bosworth HB, et al. Organizational factors associated with readiness to implement and translate a primary care based telemedicine behavioral program to improve blood pressure control: the HTN-IMPROVE study. *Implement. Sci.* 8:106, 2013 [htm](#)
- Smith CE, Spaulding R, Piamjariyakul U, et al. mHealth clinic appointment PC tablet: Implementation, challenges and solutions. *J. Mob. Tech. Med.* 5(1):44–50, 2015 [htm](#)
- Steinhubl SR, Muse ED, Topol EJ. The emerging field of mobile health. *Sci. Transl. Med.* 7(283):283rv3, 2015 [htm](#)
- Stinson JN, Laloo C, Harris L, et al. iCanCope with Pain™: User-centred design of a web- and mobile-based self-management program for youth with chronic pain based on identified health care needs. *Pain Res. Manag.* 19(5):257-265, 2014 [htm](#)
- Stonbraker S, Cho H, Hermosi G, Pichon A, Schnall R. Usability testing of a mHealth app to support self-management of HIV-associated non-AIDS related symptoms. *Stud. Health Technol. Inform.* 250:106-110, 2018 [htm](#)
- Swartwout E, Deyo P, El-Zein A. Effectiveness of technology use for engaging community dwelling adults with chronic disease in self-care behavior management in health care: a systematic review protocol. *JBI Database System Rev. Implement. Rep.* 14(5):87-95, 2016 [htm](#)
- Taylor A, Morris G, Pech J, Rechter S, Carati C, Kidd MR. Home telehealth video conferencing: perceptions and performance. *JMIR Mhealth Uhealth.* 3(3):e90, 2015 [htm](#)
- Telehealth Directory. Federally Qualified Health Center's Remote Patient Monitoring Tool Kit, 2017 [pdf](#)
- Threatt TB, Ward ED. Telehealth for diabetes self-management education and support in an underserved, free clinic population: A pilot study. *J. Amer. Pharm. Assoc* 57(3):402-406, 2017 [PubMed](#)
- Thurnheer SE, Gravestock I, Pichierri G, Steurer J, Burgstaller JM. Benefits of mobile apps in pain management: systematic review. *JMIR mHealth uHealth* 6(10):e11231, 2018 [htm](#)
- Torbjørnsen A, Småstuen MC, Jennum AK, Årsand E, Ribu L. Acceptability of an mHealth app intervention for persons with type 2 diabetes and its associations with initial self-management: randomized controlled trial. *JMIR Mhealth Uhealth* 6(5):e125, 2018 [htm](#)
- Torkamani M, McDonald L, Aguayo IS, et al. A randomized controlled pilot study to evaluate a technology platform for the assisted living of people with dementia and their carers. *J. Alzheimers Dis.* 41(2):515-523, 2014 [htm](#)
- Vassilev I, Rowsell A, Pope C, et al. Assessing the implementability of telehealth interventions for self-management support: a realist review. *Implement. Sci.* 10(1):59, 2015 [htm](#)

- Veazie S, Winchell K, Gilbert J, et al. Rapid evidence review of mobile applications for self-management of diabetes. *J. Gen. Intern. Med.* [epub ahead of print], May 2018 [PubMed](#)
- Wayne N, Ritvo P. Smartphone-enabled health coach intervention for people with diabetes from a modest socioeconomic strata community: single-arm longitudinal feasibility study. *J. Med. Internet Res.* 16(6):e149, 2014 [htm](#)
- West DS, Harvey JR, Krukowski RA, et al. Do individual, online motivational interviewing chat sessions enhance weight loss in a group-based, online weight control program? *Obesity* 24(11):2334-2340, 2016 [htm](#)
- Whitehead L, Seaton P. The effectiveness of self-management mobile phone and tablet apps in long-term condition management: a systematic review. *J. Med. Internet Res.* 18(5):e97, 2016 [htm](#)
- Yamaguchi S, Waki K, Nannya Y, et al. Usage patterns of GlucoNote, a self-management smartphone app, based on ResearchKit for patients with type 2 diabetes and prediabetes. *JMIR mHealth uHealth* 7(4):e13204, 2019 [htm](#)
- Zhang K, Liu WL, Locatis C, Ackerman M. Mobile videoconferencing apps for telemedicine. *Telemed. e-Health* 22(1): 56-62, 2016 [htm](#)
- Zullig LL, McCant F, Silberberg M, et al. Changing CHANGE: adaptations of an evidence-based telehealth cardiovascular disease risk reduction intervention. *Transl. Behav Med.* 8(2):225-232, 2018 [PubMed](#)

[RETURN TO TOPICS](#)

--cancer care

- Armstrong KA, Semple JL, Coyte PC. Replacing ambulatory surgical follow-up visits with mobile app home monitoring: Modeling cost-effective scenarios. *J. Med. Internet Res.* 16(9):e213, 2014 [htm](#)
- Bensink M, Armfield N, Irving H, et al. A pilot study of videotelephone-based support for newly diagnosed paediatric oncology patients and their families. *J. Telemed. Telecare* 14(6):315-321, 2008 [PubMed](#)
- Bragg DD, Edis H, Clark S, et al. Development of a telehealth monitoring service after colorectal surgery: A feasibility study. *World J Gastrointest Surg.* 9(9):193-199, 2017 [htm](#)
- Chen YJ, Narsavage GL, Frick KD, Petite TM. Home-telemonitoring lung cancer intervention in Appalachia: A pilot study. *Int. J. Chronic Dis. Ther.* 2(2):21-30, 2016 [htm](#)
- Chumbler NR, Kobb R, Harris L, et al. Healthcare utilization among veterans undergoing chemotherapy: the impact of a cancer care coordination/home-telehealth program. *J. Ambul. Care Manage* 30(4):308-317, 2007 [pdf](#)
- Cleeland CS, Wang XS, Shi Q, et al. Automated symptom alerts reduce postoperative symptom severity after cancer surgery: a randomized controlled clinical trial. *J. Clin. Oncol.* 29(8):994-1000, 2011 [htm](#)
- Collins A, Burns CL, Ward EC, et al. Home-based telehealth service for swallowing and nutrition management following head and neck cancer treatment. *J. Telemed. Telecare* 23 (10): 866-872, 2017 [Abstract](#)
- Devine KA, Viola AS, Coups EJ, Wu YP. Digital health interventions for adolescent and young adult cancer survivors. *JCO Clin. Cancer Inform.* 2:1-15, 2018 [PubMed](#)
- Garg S, Williams NL, Ip A, Dicker AP. Clinical integration of digital solutions in health care: an overview of the current landscape of digital technologies in cancer care. *JCO Clin. Cancer Inform.* 2:1-9, 2018 [htm](#)
- Jiang Y, West BT, Barton DL, Harris MR. Acceptance and use of eHealth/mHealth applications for self-management among cancer survivors. *Stud. Health Technol. Inform.* 245:131-135, 2017 [PubMed](#)
- Jibb LA, Stevens BJ, Nathan PC, Seto E, Cafazzo JA, Stinson JN. A smartphone-based pain management app for adolescents with cancer: establishing system requirements and a pain care algorithm based on literature review, interviews, and consensus. *J. Med. Internet Res Protoc.* 3(1):e15, 2014 [htm](#)
- Johansen MA, Henriksen E, Horsch A, Schuster T, Berntsen GK. Electronic symptom reporting between patient and provider for improved health care service quality: a systematic review of randomized controlled trials. Part 1: State of the art. *J. Med. Internet Res.* 14(5):e118, 2012 [htm](#)
- Johansen MA, Berntsen GK, Schuster T, Henriksen E, Horsch A. Electronic symptom reporting between patient and provider for improved health care service quality: a systematic review of randomized controlled trials. Part 2: Methodological quality and effects. *J. Med. Internet Res.* 14(5):e126, 2012 [htm](#)
- Kearney N, McCann L, Norrie J, et al. Evaluation of a mobile phone-based, advanced symptom management system (ASyMS) in the management of chemotherapy-related toxicity. *Support. Care Cancer* 17(4):437-444, 2009 [PubMed](#)
- Laila M, Rialle V, Nicolas L, Duguay C, Franco A. Videophones for the delivery of home healthcare in oncology. *Stud. Health Technol. Inform.* 136:39-44, 2008. [PubMed](#)
- Maguire R, Miller M, Sage M, et al. Results of a UK based pilot study of a mobile phone based advanced symptom management system (ASyMS) in the remote monitoring of chemotherapy related toxicity. *Clinical Effectiveness Nursing* 9(3-4):202-210, 2005 [Abstract](#)
- Maguire R, Ream E, Richardson A, et al. Development of a novel remote patient monitoring system: the advanced symptom management system for radiotherapy to improve the symptom experience of patients with lung cancer receiving radiotherapy. *Cancer Nurs.* 38(2):E37-E47, 2005 [PubMed](#)
- Marzorati C, Renzi C, Russell-Edu SW, Pravettoni G. Telemedicine use among caregivers of cancer patients: systematic review. *J. Med. Internet Res.* 18;20(6):e223, 2018 [htm](#)

Mobasheri MH, Johnston M, Syed UM, King D, Darzi A. The uses of smartphones and tablet devices in surgery: A systematic review of the literature. *Surgery* 158(5):1352-1371, 2015 [PubMed](#)

Mooney KH, Beck SL, Wong B, et al. Automated home monitoring and management of patient-reported symptoms during chemotherapy: results of the symptom care at home RCT. *Cancer Med.* 6(3): 537–546, 2017 [htm](#)

Petitte TM, Narsavage GL, Chen YJ, Coole C, Forth T, Frick KD. Feasibility study: home telemonitoring for patients with lung cancer in a mountainous rural area. *Oncol. Nurs. Forum* 41(2):153-161, 2014 [htm](#)

Piette JD, Rosland AM, Marinec NS, et al. Engagement with automated patient monitoring and self-management support calls: experience with a thousand chronically ill patients. *Med Care* 51(3):216-223, 2013 [htm](#)

Rising KL, Ward MM, Goldwater JC, Bhagianadh D, Hollander JE. Framework to advance oncology-related telehealth. *JCO Clin. Cancer Inform.* 2:1-11, 2018 [PubMed](#)

Scherr CL, Feuston JL, Nixon DM, Cohen SA. A two-phase approach to developing SNAP: an iPhone application to support appointment scheduling and management for women with a BRCA mutation. *J. Genet. Couns.* 27(2):439-445, 2018 [PubMed](#)

Shin JY, Kang TI, Noll RB, Choi SW. Supporting caregivers of patients with cancer: a summary of technology-mediated interventions and future directions. *Amer. Soc. Clin. Oncol. Educ. Book* 38:838-849, 2018 [pdf](#).

Tarver WL, Haggstrm DA. The use of cancer-specific patient-centered technologies among underserved populations in the United States: systematic review. *J. Med. Internet Res.* 21(4):e10256, 2019 [htm](#)

Tran C, Dicker AP, Jim HSL. The emerging role of mobile health in oncology. *Targeted Oncology*, July 3, 2017 [htm](#)

van den Brink JL, et al. Impact on quality of life of a telemedicine system supporting head and neck cancer patients: a controlled trial during the postoperative period at home. *J. Amer. Med. Inform. Assoc.* 14(2):198–205, 2007 [htm](#)

Villaron C, Cury F, Eisinger F, Cappiello MA, Marqueste T. Telehealth applied to physical activity during cancer treatment: a feasibility, acceptability, and randomized pilot study. *Support Care Cancer* 26(10):3413-3421, 2018 [PubMed](#)

Weaver A, Young AM, Rowntree J, et al. Application of mobile phone technology for managing chemotherapy-associated side-effects. *Annals Oncol.* 18(11):1887-1892, 2007 [htm](#)

Wesley KM, Fizur PJ. A review of mobile applications to help adolescent and young adult cancer patients. *Adolesc. Health Med. Ther.* 6:141-148, 2015 [htm](#)

Yount SE, Rothrock N, Bass M, et al. A randomized trial of weekly symptom telemonitoring in advanced lung cancer. *J. Pain Symp. Man.* 47 (6): 973–989, 2013 [htm](#)

[RETURN TO TOPICS](#)

--direct-to-consumer services

Aicken CR, Fuller SS, Sutcliffe LJ, et al. Young people's perceptions of smartphone-enabled self-testing and online care for sexually transmitted infections: qualitative interview study. *BMC Public Health.* 16:974, 2016 [htm](#)

Aicken CRH, Sutcliffe LJ, Gibbs J, et al. Using the eSexual Health Clinic to access chlamydia treatment and care via the internet: a qualitative interview study. *Sex. Transm. Infect.* 94(4):241-247, 2018 [htm](#)

Akhtar M, Van Heukelom PG, Ahmed A, et al. Telemedicine physical examination utilizing a consumer device demonstrates poor concordance with in-person physical examination in emergency department patients with sore throat: a prospective blinded study. *Telemed. e-Health* [epub ahead of print] Feb. 2018 [PubMed](#)

American Telemedicine Association. Practice guidelines for live, on demand primary and urgent care. ATA, Dec. 18, 2014 [htm](#)

Arevian AC, Jeffrey J, Young AS, Ong MK. Opportunities for flexible, on-demand care delivery through telemedicine. *Psychiatr. Serv.* 69(1):5-8, 2018 [PubMed](#)

Armstrong AW, Chambers CJ, Maverakis E, et al. Effectiveness of online vs in-person care for adults with psoriasis: a randomized clinical trial. *JAMA Netw. Open* 1(6):e183062, 2018 [htm](#)

Armstrong AW, Johnson MA, Lin S, Maverakis E, Fazel N, Liu FT. Patient-centered, direct-access online care for management of atopic dermatitis: a randomized clinical trial. *JAMA Dermatol.* 151(2):154-160, 2015 [htm](#)

Ashwood JS, Mehrotra A, Cowling D, Uscher-Pines L. Direct-to-consumer telehealth may increase access to care but does not decrease spending. *Health Affairs* 36(3):485-491, 2017 [PubMed](#)

Barnett ML, Ray KN, Souza J, Mehrotra A. Trends in telemedicine use in a large commercially insured population, 2005-2017. *JAMA* 320(20):2147-2149, 2018 [PubMed](#)

Bauermeister JA, Pingel ES, Jadwin-Cakmak L, et al. Acceptability and preliminary efficacy of a tailored online HIV/STI testing intervention for young men who have sex with men: the Get Connected! program. *AIDS Behav.* 19(10):1860-1874, 2015 [htm](#)

Brunett PH, DiPiero A, Flores C, Choi D, Kum H, Girard DE. Use of a voice and video internet technology as an alternative to in-person urgent care clinic visits. *J. Telemed. Telecare* 21(4):219-226, 2015 [PubMed](#)

Canadian Agency for Drugs and Technologies in Health. Telemedicine for the treatment of urgent conditions: a review of clinical effectiveness, cost-effectiveness, and guidelines. CADTH Rapid Response Reports, Oct. 2015 [htm](#)

- Chabot C, Gilbert M, Haag D, et al. Anticipating the potential for positive uptake and adaptation in the implementation of a publicly funded online STBBI testing service: a qualitative analysis. *BMC Health Serv. Res.* 18(1):57, 2018 [htm](#)
- Elliott T, Shih J. Direct to consumer telemedicine. *Curr. Allergy Asthma Rep.* 19(1):1, 2019 [PubMed](#)
- Erkkola-Anttinen N, Irijala H, Laine MK, et al. Smartphone otoscopy performed by parents. *Telemed. e-Health* [epub ahead of print], July 2018 [PubMed](#)
- Estcourt CS, Gibbs J, Sutcliffe LJ, et al. The eSexual Health Clinic system for management, prevention, and control of sexually transmitted infections: exploratory studies in people testing for Chlamydia trachomatis. *Lancet Public Health* 2(4):e182-e190, 2017 [htm](#)
- Finta MK, Borkenhagen A, Werner NE, et al. Patient perspectives on accessing acute illness care. *West. J. Emerg. Med.* 18(4):569-576, 2017 [htm](#)
- Fogel AL, Sarin KY. A survey of direct-to-consumer teledermatology services available to US patients: Explosive growth, opportunities and controversy. *J. Telemed. Telecare* [epub ahead of print], Jan. 2016 [htm](#)
- Gardner MR, Jenkins SM, O'Neil DA, et al. Perceptions of video-based appointments from the patient's home: a patient survey. *Telemed. e-Health* 21(4):281-285, 2014 [htm](#)
- Gibbs J, Sutcliffe LJ, Gkatzidou V, et al. The eClinical Care Pathway Framework: a novel structure for creation of online complex clinical care pathways and its application in the management of sexually transmitted infections. *BMC Med. Inform. Decis. Making* 16:98, 2016 [htm](#)
- Gilbert M, Haag D, Hottes TS, et al. Get checked... where? The development of a comprehensive, integrated internet-based testing program for sexually transmitted and blood-borne infections in British Columbia, Canada. *JMIR Res. Protoc.* 5(3):e186, 2016 [htm](#)
- Gilbert M, Salway T, Haag D, et al. Assessing the impact of a social marketing campaign on program outcomes for users of an internet-based testing service for sexually transmitted and blood-borne infections: observational study. *J. Med. Internet Res.* 21(1):e11291, 2019 [htm](#)
- Gilbert M, Salway T, Haag D, et al. Use of GetCheckedOnline, a comprehensive web-based testing service for sexually transmitted and blood-borne infections. *J. Med. Internet Res.* 19(3):e81, 2017 [htm](#)
- Gordon AS, Adamson WC, DeVries AR. Virtual visits for acute, nonurgent care: a claims analysis of episode-level utilization. *J. Med. Internet Res.* 19(2):e35, 2017 [htm](#)
- Greenhalgh T, Vijayaraghavan S, Wherton J, et al. Virtual online consultations: advantages and limitations (VOCAL) study. *BMJ Open* 6(1):e009388, 2016 [htm](#)
- Hickson R, Talbert J, Thornbury WC, Perin NR, Goodin AJ. Online medical care: the current state of "eVisits" in acute primary care delivery. *Telemed. e-Health* 21(2):90-96, 2015 [htm](#)
- Kahn E, Sossong S, Goh A, Carpenter D, Goldstein S. Evaluation of skin cancer in Northern California Kaiser Permanente's store-and-forward teledermatology referral program. *Telemed. e-Health* 19(10):780-785, 2013 [PubMed](#)
- Kirkner RM. Some thumbs up, some down, on telehealth quality of care. *Managed Care* 26(4):23-25, 2017 [htm](#)
- Kochmann M, Locatis C. Direct to consumer mobile teledermatology apps: an exploratory study. *Telemed. e-Health* 22(8):689-693, 2016 [htm](#)
- Kornmehl H, Singh S, Johnson MA, Armstrong AW. Direct-access online care for the management of atopic dermatitis: a randomized clinical trial examining patient quality of life. *Telemed. e-Health.* 23(9):726-732, 2017 [PubMed](#)
- Maeng DD, Starr AE, Tomcavage JF, Sciandra J, Salek D, Griffith D. Can telemonitoring reduce hospitalization and cost of care? A health plan's experience in managing patients with heart failure. *Popul. Health Manag.* 17(6):340-344, 2014 [htm](#)
- Martinez KA, Rood M, Jhangiani N, et al. Patterns of use and correlates of patient satisfaction with a large nationwide direct to consumer telemedicine service. *J. Gen. Intern. Med.* [epub ahead of print] August 2018 [PubMed](#)
- Martinez-Martin N, Kreitmair K. Ethical issues for direct-to-consumer digital psychotherapy apps: addressing accountability, data protection, and consent. *JMIR Ment. Health* 5(2):e32, 2018 [pdf](#)
- Mehrotra A, Jena AB, Busch AB, Souza J, Uscher-Pines L, Landon BE. Utilization of telemedicine among rural Medicare beneficiaries. *JAMA* 315(18):2015-2016, 2016 [htm](#)
- Mehrotra A, Paone S, Martich GD, Albert SM, Shevchik GJ. Characteristics of patients who seek care via eVisits instead of office visits. *Telemed. e-Health* 19(7):515-519, 2013 [htm](#)
- Monlux KD, Pollard JS, Bujanda Rodriguez AY, Hall SS. Reported cases of medical malpractice in direct-to-consumer telemedicine. *J. Autism Dev. Disord.* [epub ahead of print], April 2019 [PubMed](#) Ngoo A, Finnane A, McMeniman E, et al. Efficacy of smartphone applications in high-risk pigmented lesions. *Australasian J. Dermatol.* [epub ahead of print], February 2017 [PubMed](#)
- Nadarzynski T, Scholfield C, Symonds Y, Graham C, Kidsley S. Preferences for the format of text messages containing results of online screening for sexually transmitted infections: a service evaluation. *Int. J. STD AIDS* 29(10):1014, 2018 [PubMed](#)
- Nord G, Rising KL, Band RA, Carr BG, Hollander JE. On-demand synchronous audio video telemedicine visits are cost effective. *Amer. J. Emerg. Med.* [epub ahead of print], August 2018 [PubMed](#)

Nundy S, Dick JJ, Chou CH, Nocon RS, Chin MH, Peek ME. Mobile phone diabetes project led to improved glycemic control and net savings for Chicago plan participants. *Health Affairs* 33(2):265-272, 2014 [htm](#)

Paslakis G, Fischer-Jacobs J, Pape L, et al. Assessment of use and preferences regarding internet-based health care delivery: cross-sectional questionnaire study. *J. Med. Internet Res.* 21(5):e12416, 2019 [htm](#)

Patel YM, et al. Variation in quality of care among virtual urgent care providers. *Find Brief* 42(8):1-3, 2016 [htm](#)

Pathipati AS, Ko JM. Implementation and evaluation of Stanford Health Care direct-care teledermatology program. *SAGE Open Med.* 4:2050312116659089, 2016 [htm](#)

Pearl R. Kaiser Permanente Northern California: current experiences with internet, mobile, and video technologies. *Health Affairs* 33(2):251-257, 2014 [PubMed](#)

Polinski JM, Barker T, Gagliano N, Sussman A, Brennan TA, Shrank WH. Patients' satisfaction with and preference for telehealth visits. *J. Gen. Intern. Med.* 31(3):269-275, 2016 [htm](#)

Powell RE, Stone D, Hollander JE. Patient and health system experience with implementation of an enterprise-wide telehealth scheduled video visit program: mixed-methods study. *JMIR Med. Inform.* 6(1):e10, 2018 [htm](#)

Rajda J, Seraly MP, Fernandes J, et al. Impact of direct to consumer store-and-forward teledermatology on access to care, satisfaction, utilization, and costs in a commercial health plan population. *Telemed. e-Health* 24(2):166-169, 2018 [PubMed](#)

Ray KN, Shi Z, Poon SJ, Uscher-Pines L, Mehrotra A. Use of commercial direct-to-consumer telemedicine by children. *Acad. Pediatr.* [epub ahead of print], January 2019 [PubMed](#)

Resneck JS Jr, Abrouk M, Steuer M, et al. Choice, transparency, coordination, and quality among direct-to-consumer telemedicine websites and apps treating skin disease. *JAMA Dermatol.* 152(7):768-775, 2016 [htm](#)

Roth D, Zekovic-Roth S, Yasutake M, Richardson M. Telehealth @ Home: A guidebook for people who will receive home-based telehealth services. Mind & Body Works, Inc., 2016 [pdf](#)

Schoenfeld AJ, Davies JM, Marafino BJ, et al. Variation in quality of urgent health care provided during commercial virtual visits. *JAMA Intern. Med.* 176(5):635-642, 2016 [htm](#)

Shah MU, Sohal M, Valdez TA, Grindle CR. iPhone otoscopes: Currently available, but reliable for tele-otoscopy in the hands of parents? *Int. J. Pediatr. Otorhinolaryngol.* 106:59-63, 2018 [PubMed](#)

Siwicki B. Comparing 11 top telehealth platforms: Company execs tout quality, safety, EHR integrations. *Healthcare IT News*, August 02, 2017 [htm](#)

Smith K. Telemedicine's impact on urgent care: what you need to know. *J. Urgent Care Med.* 6(7): 15-20, 2012 [htm](#)

Stenberg PL. Rural individuals' telehealth practices: an overview. *Econ. Inform. Bull.* # 199, November 2018 [pdf](#)

Tan LF, Mason N, Gonzaga WJ. Virtual visits for upper respiratory tract infections in adults associated with positive outcome in a Cox model. *Telemed. e-Health* [epub ahead of print] June 2016 [PubMed](#)

Turner KME, Looker KJ, Syred J, Zienkiewicz A, Baraitser P. Online testing for sexually transmitted infections: A whole systems approach to predicting value. *PLoS One* 14(2):e0212420, 2019 [htm](#)

Turvey C, Coleman M, Dennison O, Drude K, Goldenson M, Hirsch P, et al. ATA practice guidelines for video-based online mental health services. *Telemed. e-Health* 19(9):722-730, 2013 [htm](#)

Uscher-Pines L, Malsberger R, Burgette L, Mulcahy A, Mehrotra A. Effect of teledermatology on access to dermatology care among Medicaid enrollees. *JAMA Dermatol.* 152(8):905-912, 2016 [htm](#)

Uscher-Pines L, Mehrotra A. Analysis of Teladoc use seems to indicate expanded access to care for patients without prior connection to a provider. *Health Affairs* 33(2):258-264, 2014 [PubMed](#)

Uscher-Pines L, Mehrotra A. Telehealth alone won't increase health care access for the underserved. *Health Affairs Blog*, Dec. 15, 2016 [htm](#)

Uscher-Pines L, Mulcahy A, Cowling D, Hunter G, Burns R, Mehrotra A. Antibiotic prescribing for acute respiratory infections in direct-to-consumer telemedicine visits. *JAMA Intern. Med.* 175(7):1234-1235, 2015 [htm](#)

Uscher-Pines L, Mulcahy A, Cowling D, Hunter G, Burns R. Access and quality of care in direct-to-consumer telemedicine. *Telemed. e-Health* 22(4):282-287, 2016 [PubMed](#)

Varkey P, Schumacher K, Swanton C, Timm B, Hagen P. Telemedicine in the work site: a study of feasibility, and patient and provider satisfaction. *J. Telemed. Telecare* 14(6): 322-325, 2008 [Abstract](#)

Yao P, Clark S, Gogia K, Hafeez B, Hsu H, Greenwald P. Antibiotic prescribing practices: is there a difference between patients seen by telemedicine versus those seen in-person? *Telemed. eHealth* [epub ahead of print], February 2019 [PubMed](#)

Zipnosis, Inc. 2018 On-demand virtual care benchmark survey report. Zipnosis, March 2019 [htm](#) (requires a free registration)

--home dialysis

Bieber SD, Weiner DE. Telehealth and home dialysis: a new option for patients in the United States. *Clin. J. Amer. Soc. Nephrol.* 13(8):1288-1290, 2018 [pdf](#)

Brophy PD. Overview on the challenges and benefits of using telehealth tools in a pediatric population. *Adv. Chronic Kidney Dis.* 24(1):17-21, 2017 [htm](#)

Dey V, Jones A, Spalding EM. Telehealth: Acceptability, clinical interventions and quality of life in peritoneal dialysis. *SAGE Open Med.* 4:2050312116670188, 2016 [htm](#) UK

Ditchburn JL, Marshall A. Renal telemedicine through video-as-a-service delivered to patients on home dialysis: A qualitative study on the renal care team members' experience. *J. Ren. Care.* 43(3):175-182., 2017 [PubMed](#)

Hayashi A, Yamaguchi S, Waki K, et al. Testing the feasibility and usability of a novel smartphone-based self-management support system for dialysis patients: a pilot study. *JMIR Res. Protoc.* 6(4):e63, 2017 [htm](#)

Kelly JT, Warner MM, Conley M, et al. Feasibility and acceptability of telehealth coaching to promote healthy eating in chronic kidney disease: a mixed-methods process evaluation. *BMJ Open* 9(1):e024551, 2019 [htm](#)

Aussie Krishna VN, Managadi K, Smith M, Wallace E. Telehealth in the delivery of home dialysis care: catching up with technology. *Adv. Chronic Kidney Dis.* 24(1):12-16, 2017 [htm](#)

Lew SQ, Sikka N. Are patients prepared to use telemedicine in home peritoneal dialysis programs? *Perit. Dial. Int.* 33(6):714-715, 2013 [htm](#)

Lew SQ, Sikka N. Operationalizing telehealth for home dialysis patients in the United States. *Amer. J. Kidney Dis.* [epub ahead of print], March 2019 [PubMed](#)

Liu N, Kim J, Jung Y, Arisy A, et al. Remote monitoring systems for chronic patients on home hemodialysis: field test of a copresence-enhanced design. *JMIR Hum. Factors* 4(3):e21, 2017 [htm](#)

Magnus M, Sikka N, Cherian T, Lew SQ. Satisfaction and improvements in peritoneal dialysis outcomes associated with telehealth. *Appl. Clin. Inform.* 8(1):214-225, 2017 [htm](#)

MI? Milan Manani S, Rosner MH, Virzi GM, et al. Longitudinal experience with remote monitoring for automated peritoneal dialysis patients. *Nephron* [epub ahead of print], January 2019 [PubMed](#)

Minatodani DE, Berman SJ. Home telehealth in high-risk dialysis patients: a 3-year study. *Telemed. e-Health* 19(7):520-522, 2013. [PubMed](#)

Patterson P. Telehealth for home dialysis therapies. *Nephrol Nurs J.* 44(6):545-548, 2017 [PubMed](#)

Rygh E, Arild E, Johnsen E, Rumpsfeld M. Choosing to live with home dialysis-patients' experiences and potential for telemedicine support: a qualitative study. *BMC Nephrol.* 13:13, 2012. [htm](#)

Wallace EL, Rosner MH, Alscher MD, et al. Remote patient management for home dialysis patients. *Kidney Int. Rep.* 2(6):1009-1017, 2017 [htm](#)

Weinhandl ED, Collins AJ. Relative risk of home hemodialysis attrition in patients using a telehealth platform. *Hemodial. Int.* [epub ahead of print] December 2017 [PubMed](#)

--maternal and neonatal care

Garne Holm K, Brødsgaard A, Zachariassen G, Smith AC, Clemensen J. Parent perspectives of neonatal tele-homecare: A qualitative study. *J. Telemed. Telecare* [epub ahead of print], January 2018 [PubMed](#)

García-Sáez G, Rigla M, Martínez-Sarriegui I, et al. Patient-oriented computerized clinical guidelines for mobile decision support in gestational diabetes. *J. Diabetes Sci. Technol.* 8(2):238-246, 2014 [htm](#)

Gund A, Sjöqvist BA, Wigert H, et al. A randomized controlled study about the use of eHealth in the home health care of premature infants. *BMC Med. Inform. Decis. Making* 13:22, 2013 [htm](#)

Garne Holm K, Brødsgaard A, Zachariassen G, Smith AC, Clemensen J. Participatory design methods for the development of a clinical telehealth service for neonatal homecare. *SAGE Open Med.* 21;5:2050312117731252, 2017 [htm](#)

Gund A, Sjöqvist BA, Wigert H, et al. A randomized controlled study about the use of eHealth in the home health care of premature infants. *BMC Med. Inform. Decis. Making* 13:22, 2013 [htm](#)

Gyselaers W, Lanssens D, Perry H, Khalil A. Mobile health applications for prenatal assessment and monitoring. *Curr. Pharm. Des.* [epub ahead of print], March 2019 [PubMed](#)

Homko CJ, Santamore WP, Whiteman V, et al. Use of an internet-based telemedicine system to manage underserved women with gestational diabetes mellitus. *Diabetes Technol. Ther.* 9(3):297-306, 2007 [htm](#)

Hoppe KK, Williams M, Thomas N, et al. Telehealth with remote blood pressure monitoring for postpartum hypertension: A prospective single-cohort feasibility study. *Pregnancy Hypertens.* 15:171-176, 2019 [PubMed](#)

Isetta V, Lopez-Agustina C, Lopez-Bernal E, et al. Cost-effectiveness of a new internet-based monitoring tool for neonatal post-discharge home care. *J. Med. Internet Res.* 15(2): e38, 2013 [htm](#)

Kohn J. Telemedicine for reproductive health. Planned Parenthood Federation of America, PCOR & Reproductive Health Summit, 2015 [pdf](#)

Lanssens D, Vandenberk T, Smeets CJ, et al. Prenatal remote monitoring of women with gestational hypertensive diseases: cost analysis. *J. Med. Internet Res* 20(3):e102, 2018 [htm](#)

Lindberg B, Axelsson K, Ohrling K. Experience with videoconferencing between a neonatal unit and the families' home from the perspective of certified paediatric nurses. *J. Telemed. Telecare* 15(6):275-280, 2009 [htm](#)

Mackillop L, Loerup L, Bartlett K, et al. Development of a real-time smartphone solution for the management of women with or at high risk of gestational diabetes. *J. Diabetes Sci. Technol.* 8(6):1105-1114, 2014 [htm](#)

McCrossan B, Morgan G, Grant B, Sands A, Craig B, Casey F. Assisting the transition from hospital to home for children with major congenital heart disease by telemedicine: a feasibility study and initial results. *Med. Inform. Internet Med.* 32(4):297-304, 2007 [PubMed](#)

- McMillan B, Abdelgalil R, Madhuvrata P, Easton K, Mitchell C. Reducing the risk of type 2 diabetes mellitus in primary care after gestational diabetes: a role for mobile technology to improve current care. *Brit. J. Gen. Pract.* 66(653):631-632, 2016 [htm](#)
- Morgan GJ, Craig B, Grant B, Sands A, Doherty N, Casey F. Home videoconferencing for patients with severe congenital heart disease following discharge. *Congenit. Heart Dis.* 3(5):317-324, 2008 [PubMed](#)
- Moy FM, Ray A, Buckley BS. Techniques of monitoring blood glucose during pregnancy for women with pre-existing diabetes. *Cochrane Database Syst. Rev.* 4:CD009613, 2014 [pdf](#)
- Ness TE, Annese MF, Martinez-Paz N, Unruh KT, Scott JD, Wood BR. Using an innovative telehealth model to support community providers who deliver perinatal HIV care. *AIDS Educ Prev.* 29(6):516-526, 2017 [PubMed](#)
- Pérez-Ferre N, Galindo M, Fernández MD, et al. The outcomes of gestational diabetes mellitus after a telecare approach are not inferior to traditional outpatient clinic visits. *Int. J. Endocrinol.* 2010:386941, 2010 [htm](#)
- Rajan S, Leonard N, Fletcher R. Ambulatory autonomic activity monitoring among at-risk adolescent mothers. *J. Mobile Technol Med.* 1(3):25-31, 2012 [htm](#)
- Rasekaba TM, Lim K, Blackberry I, Gray K, Furler J. Telemedicine for gestational diabetes mellitus (TeleGDM): A mixed-method study protocol of effects of a web-based GDM support system on health service utilization, maternal and fetal outcomes, costs, and user experience. *JMIR Res. Protoc.* 5(3):e163, 2016 [pdf](#)
- Robinson C, Gund A, Sjöqvist BA, Bry K. Using telemedicine in the care of newborn infants after discharge from a neonatal intensive care unit reduced the need of hospital visits. *Acta Paediatr.* 105(8):902-909, 2016 [htm](#)
- Sasangohar F, Davis E, Kash BA, Shah SR. Remote patient monitoring and telemedicine in neonatal and pediatric settings: scoping literature review. *J. Med. Internet Res.* 20(12):e295, 2018 [htm](#)
- Young L, Siden H, Tredwell S. Post-surgical telehealth support for children and family care-givers. *J. Telemed. Telecare* 13(1):15-19, 2007 [PubMed](#)
- Zartner P, Handke R, Photiadis J, Brecher AM, Schneider MB. Performance of an autonomous telemonitoring system in children and young adults with congenital heart diseases. *Pacing Clin. Electrophysiol.* 31(10):1291-1299, 2008 [PubMed](#)

[RETURN TO TOPICS](#)

--neurological condition monitoring

- Abbate S, Avvenuti M, Light J. Usability study of a wireless monitoring system among Alzheimer's disease elderly population. *Int. J. Telemed. Appl.* 2014: 617495, 2014 [htm](#)
- Alexander GL, Wakefield BJ, Rantz M, et al. Passive sensor technology interface to assess elder activity in independent living. *Nurs Res.* 60(5):318-325, 2011 [htm](#)
- Ando H, Ashcroft-Kelso H, Halhead R, et al. Incorporating self-reported questions for telemonitoring to optimize care of patients with MND on noninvasive ventilation (MND OptNIVent). *Amyotroph. Lateral Scler. Frontotemporal Degener.* 26:1-12, 2019 [PubMed](#)
- Arora S, Venkataraman V, Zhan A, Donohue S, Biglan KM, Dorsey ER, Little MA. Detecting and monitoring the symptoms of Parkinson's disease using smartphones: A pilot study. *Parkinsonism Related Disorders* 21(6):650-653, 2015 [pdf](#)
- Beck CA, Beran DB, Biglan KM, et al. National randomized controlled trial of virtual house calls for Parkinson disease. *Neurology* 89(11):1152-1161, 2017 [htm](#)
- Bove R, Garcha P, Bevan CJ, et al. Clinic to in-home telemedicine reduces barriers to care for patients with MS or other neuroimmunologic conditions. *Neurol. Neuroimmunol. Neuroinflamm.* 5(6): e505, 2018 [htm](#)
- Cancela J, Pastorino M, Tzallas AT, et al. Wearability assessment of a wearable system for Parkinson's disease remote monitoring based on a body area network of sensors. *Sensors* 14(9): 17235–17255, 2014 [htm](#)
- Chirra M, Marsili L, Wattley L, et al. Telemedicine in neurological disorders: opportunities and challenges. *Telemed. e-Health* [epub ahead of print], August 2018 [htm](#)
- Dorsey ER, Achey MA, Beck CA, et al. National randomized controlled trial of virtual house calls for people with Parkinson's disease: interest and barriers. *Telemed. e-Health* 22(7):590-598, 2016 [htm](#)
- Dorsey ER, Venkataraman V, Grana MJ, et al. Randomized controlled clinical trial of "virtual house calls" for Parkinson disease. *JAMA Neurol.* 70(5):565-570, 2013 [htm](#)
- Dorsey ER, Vlaanderen FP, Engelen LJ, et al. Moving Parkinson care to the home. *Movement Disord.* 31(9):1258-1562, 2016 [pdf](#)
- Elliott TR, Brossart D, Berry JW, Fine PR. Problem-solving training via videoconferencing for family caregivers of persons with spinal cord injuries: a randomized controlled trial. *Behav. Res. Ther.* 46(11):1220-1229, 2008 [htm](#)
- Godinho C, Domingos J, Cunha G, et al. A systematic review of the characteristics and validity of monitoring technologies to assess Parkinson's disease. *J. Neuroeng. Rehabil.* 13(1):24, 2016 [htm](#)
- Jhaveri MM, Benjamin-Garner R, Rianon N, et al. Telemedicine-guided education on secondary stroke and fall prevention following inpatient rehabilitation for Texas patients with stroke and their caregivers: a feasibility pilot study. *BMJ Open* 7(9):e017340, 2017 [htm](#)

- Lai B, Bond K, Kim Y, Barstow B, Jovanov E, Bickel CS. Exploring the uptake and implementation of tele-monitored home-exercise programmes in adults with Parkinson's disease: A mixed-methods pilot study. *J. Telemed. Telecare* [epub ahead of print] August 2018 [PubMed](#)
- Langan J, Delave K, Phillips L, Pangilinan P, Brown SH. Home-based telerehabilitation shows improved upper limb function in adults with chronic stroke: a pilot study. *J. Rehabil. Med.* 45(2):217-220, 2013 [htm](#)
- Larizza MF, Zukerman I, Bohnert F, et al. In-home monitoring of older adults with vision impairment: exploring patients', caregivers' and professionals' views. *J. Amer. Med. Inform. Assoc.* 21(1):56-63, 2014 [htm](#)
- Lindauer A, Seelye A, Lyons B, et al. Dementia care comes home: patient and caregiver assessment via telemedicine. *Gerontologist* 57(5):e85–e93, 2017 [Abstract](#)
- Pan D, Dhall R, Lieberman A, Petitti DB. A mobile cloud-based Parkinson's disease assessment system for home-based monitoring. *JMIR Mhealth Uhealth* 3(1):e29, 2015 [htm](#)
- Powers JS, Buckner J. Reaching out to rural caregivers and veterans with dementia utilizing clinical video-telehealth. *Geriatrics* 3(2): pii: E29, 2018 [htm](#)
- Riggs A, Patel V, Paneri B, Portenoy RK, Bikson M, Knotkova H. At-home transcranial direct current stimulation (tDCS) with telehealth support for symptom control in chronically-ill patients with multiple symptoms. *Front. Behav. Neurosci.* 12:93, 2018 [htm](#)
- Rovini E, Maremmani C, Cavallo F. How wearable sensors can support Parkinson's disease diagnosis and treatment: a systematic review. *Front. Neurosci.* 11:555, 2017 [htm](#)
- Sekimoto S, Oyama G, Hatano T, et al. A randomized crossover pilot study of telemedicine delivered via iPads in Parkinson's Disease. *Parkinsons Dis.* 2019:9403295, 2019 [htm](#)
- Williams K, Arthur A, Niedens M, Moushey L, Hutfles L. In-home monitoring support for dementia caregivers: a feasibility study. *Clin. Nurs. Res.* 22(2):139-150, 2013 [htm](#)

--palliative and hospice care

- Bensink ME, Armfield NR, Pinkerton R, et al. Using videotelephony to support paediatric oncology-related palliative care in the home: from abandoned RCT to acceptability study. *Palliat. Med.* 23(3):228-237, 2009 [PubMed](#)
- Bradford N, Armfield NR, Young J, Smith AC. The case for home based telehealth in pediatric palliative care: a systematic review. *BMC Palliat Care* 12: 4, 2013 [htm](#)
- Bradford NK, Armfield NR, Young J, Herbert A, Mott C, Smith AC. Principles of a paediatric palliative care consultation can be achieved with home telemedicine. *J. Telemed. Telecare* 20(7):360-364, 2014 [pdf](#)
- Bradford NK, Armfield NR, Young J, Smith AC. Paediatric palliative care by video consultation at home: a cost minimisation analysis. *BMC Health Serv. Res.* 14:328, 2014 [htm](#)
- Bradford NK, Young J, Armfield NR, Herbert A, Smith AC. Home telehealth and paediatric palliative care: clinician perceptions of what is stopping us? *BMC Palliat. Care* 13: 29, 2014 [htm](#)
- Chi NC, Demiris G. A systematic review of telehealth tools and interventions to support family caregivers. *J. Telemed. Telecare* 21(1):37-44, 2015 [htm](#)
- Doolittle GC, Nelson EL, Spaulding AO, et al. TeleHospice: A community-engaged model for utilizing mobile tablets to enhance rural hospice care. *Amer. J. Hosp. Palliat. Care* [epub ahead of print], February 2019 [PubMed](#)
- Funderskov KF, Raunkjær M, Danbjørg DB, et al. Experiences with video consultations in specialized palliative home-care: qualitative study of patient and relative perspectives. *J. Med. Internet Res.* 21(3):e10208, 2019 [htm](#)
- Morgan DD, Swetenham K, To THM, Currow DC, Tieman JJ. Telemonitoring via self-report and video review in community palliative care: a case report. *Healthcare* 5(3): 51, 2017 [htm](#)
- Oliver DP, Demiris G, Wittenberg-Lyles E, Washington K, Day T, Novak H. A systematic review of the evidence base for telehospice. *Telemed. e-Health* 18(1):38-47, 2012 [htm](#)
- Phongtankuel V, Adelman RD, Reid MC. Mobile health technology and home hospice care: promise and pitfalls. *Prog. Palliat. Care* 26(3):137-141, 2018 [PubMed](#)
- Rogante M, Giacomozzi C, Grigioni M, Kairy D. Telemedicine in palliative care: a review of systematic reviews. *Ann. Ist. Super. Sanita* 52(3):434-442, 2016 [pdf](#)
- Stern A, Valaitis R, Weir R, Jadad AR. Use of home telehealth in palliative cancer care: a case study. *J. Telemed. Telecare* 18(5):297-300, 2012 [htm](#)
- Takahashi PY, Hanson GJ, Thorsteinsdottir B, et al. The impact of telemonitoring upon hospice referral in the community: a randomized controlled trial. *Clin. Interv. Aging* 7: 445–451, 2012 [htm](#)
- Tieman JJ, Morgan DD, Swetenham K, To TH, Currow DC. Designing clinically valuable telehealth resources: processes to develop a community-based palliative care prototype. *JMIR Res. Protoc.* 3(3):e41, 2014 [htm](#)
- Tieman JJ, Swetenham K, Morgan DD, To TH, Currow DC. Using telehealth to support end of life care in the community: a feasibility study. *BMC Palliat Care* 15(1):94, 2016 [htm](#)
- To THM, Currow DC, Swetenham K, Morgan DD, Tieman J. How can activity monitors be used in palliative care patients? *J. Palliat. Med.* [epub ahead of print], March 2019 [PubMed](#)

[RETURN TO TOPICS](#)

--rehabilitation

- Boccalandro EA, Dallari G, Mannucci PM. Telemedicine and telerehabilitation: current and forthcoming applications in haemophilia. *Blood Transfus.* [epub ahead of print], February 2019 [htm](#)
- Breeden LE. Occupational therapy home safety intervention via telehealth. *Int. J. Telerehabil.* 8(1):29-40, 2016 [htm](#)
- Canadian Agency for Drugs and Technologies in Health. School-based telerehabilitation: clinical effectiveness and guidelines. CADTH Rapid Response Report, Sept. 2015 [htm](#)
- Canadian Agency for Drugs and Technologies in Health. Telehealth for autism spectrum disorder diagnosis in pediatric patients: diagnostic accuracy, cost-effectiveness, and guidelines. CADTH Rapid Response Reports, July 2015 [htm](#)
- Deutsch JE, Maidan I, Dickstein R. Patient-centered integrated motor imagery delivered in the home with telerehabilitation to improve walking after stroke. *Phys. Ther.* 92(8):1065-1077, 2012 [htm](#)
- Dicianno BE, Parmanto B, Fairman AD, et al. Perspectives on the evolution of mobile (mHealth) technologies and application to rehabilitation. *Phys. Ther.* 95(3):397-405, 2015 [htm](#)
- Dinesen B, Nielsen G, Andreasen JJ, Spindler H. Integration of rehabilitation activities into everyday life through telerehabilitation: qualitative study of cardiac patients and their partners. *J. Med. Internet Res.* 21(4):e13281, 2019 [htm](#)
- Faett BL, Brienza DM, Geyer MJ, Hoffman LA. Teaching self-management skills in persons with chronic lower limb swelling and limited mobility: evidence for usability of telerehabilitation. *Int. J. Telerehab.* 5(1): 17-25, 2013 [htm](#)
- Faett BL, Geyer MJ, Hoffman LA, Brienza DM. Design and development of a telerehabilitation self-management program for persons with chronic lower limb swelling and mobility limitations: preliminary evidence. *Nurs. Res. Pract.* 2012:608059, 2012 [htm](#)
- Fordeucey PG, Glueckauf RL, Bergquist TF, Maheu MM, Yutsis M. Telehealth for persons with severe functional disabilities and their caregivers: facilitating self-care management in the home setting. *Psychol. Serv.* 9(2):144-162, 2012 [htm](#)
- Golomb MR, McDonald BC, Warden SJ, et al. In-home virtual reality videogame telerehabilitation in adolescents with hemiplegic cerebral palsy. *Arch. Phys. Med. Rehabil.* 91(1):1-8, 2010 [PubMed](#)
- Golomb MR, McDonald BC, Warden SJ, et al. In-home virtual reality videogame telerehabilitation in adolescents with hemiplegic cerebral palsy. *Arch. Phys. Med. Rehabil.* 91(1):1-8, 2010 [PubMed](#)
- Grogan-Johnson S, Gabel RM, Taylor J, Rowan LE, Alvares R, Schenker J. A pilot exploration of speech sound disorder intervention delivered by telehealth to school-age children. *Int. J. Telerehabil.* 3(1):31-42, 2011 [htm](#)
- Hoenig H, Sanford JA, Butterfield T, et al. Development of a teletechnology protocol for in-home rehabilitation. *J. Rehabil. Res. Dev.* 43(2):287-298, 2006 [htm](#)
- Hoffman SW, Shesko K, Harrison CR. Enhanced neurorehabilitation techniques in the DVBIC Assisted Living Pilot Project. *NeuroRehabilitation.* 26(3):257-269, 2010 [PubMed](#)
- Hwang R, Morris NR, Mandrusiak A, et al. Cost-utility analysis of home-based telerehabilitation compared with centre-based rehabilitation in patients with heart failure. *Heart Lung Circ.* [epub ahead of print] December, 2018 [PubMed](#)
- Kairy D, Tousignant M, Leclerc N, Côté AM, Levasseur M, Researchers TT. The patient's perspective of in-home telerehabilitation physiotherapy services following total knee arthroplasty. *Int. J. Environ. Res. Public Health* 10(9):3998-4011, 2013 [htm](#)
- Langan J, Delave K, Phillips L, Pangilinan P, Brown SH. Home-based telerehabilitation shows improved upper limb function in adults with chronic stroke: a pilot study. *J. Rehabil. Med.* 45(2):217-220, 2013 [htm](#)
- Levy CE, Silverman E, Jia H, Geiss M, Omura D. Effects of physical therapy delivery via home video telerehabilitation on functional and health-related quality of life outcomes. *J. Rehabil. Res. Dev.* 52(3):361-370, 2015 [htm](#)
- Macoir J, Martel Sauvageau V, Boissy P, Tousignant M, Tousignant M. In-home synchronous telespeech therapy to improve functional communication in chronic poststroke aphasia: results from a quasi-experimental study. *Telemed. e-Health* 23(8):630-639, 2017 [PubMed](#)
- Mashima PA, Doarn CR. Overview of telehealth activities in speech-language pathology. *Telemed. e-Health* 14(10):1101-1117, 2008 [htm](#)
- McCarthy M, Muñoz K, White KR. Teleintervention for infants and young children who are deaf or hard-of-hearing. *Pediatrics* 126 (Suppl 1):S52-58, 2010 [htm](#)
- Miller TW, Elliott B, Long K, Mazenac C, Moder M. Telehealth home health applications for adults with developmental disabilities. *Telemed. e-Health* 12(2):137-145, 2006. [PubMed](#)
- Moffet H, Tousignant M, Nadeau S, et al. Patient satisfaction with in-home telerehabilitation after total knee arthroplasty: results from a randomized controlled trial. *Telemed. e-Health* 2016 [PubMed](#)
- Nissen RM. Delivering occupational therapy services through telehealth to older adults: current considerations. *SIS Quart. Pract. Connections* 1(4): 20–22, 2016 [htm](#)
- Nix J, Comans T. Home quick – occupational therapy home visits using mHealth, to facilitate discharge from acute admission back to the community. *Int. J. Telerehabil.* 9(1): 47–54, 2017
- Parmanto B, Saptono A, Murthi R, Safos C, Lathan CE. Secure telemonitoring system for delivering telerehabilitation therapy to enhance children's communication function to home. *Telemed. e-Health* 14(9):905-911, 2008 [PubMed](#)

- Saeed N, Manzoor M, Khosravi P. An exploration of usability issues in telecare monitoring systems and possible solutions: a systematic literature review. *Disabil. Rehabil. Assist. Technol.* [epub ahead of print], February 2019 [PubMed](#)
- Theodoros DG. Telerehabilitation for service delivery in speech-language pathology. *J. Telemed. Telecare* 14(5):221-224, 2008 [PubMed](#)
- Tousignant M, Moffet H, Nadeau S, et al. Cost analysis of in-home telerehabilitation for post-knee arthroplasty. *J. Med. Internet Res.* 17(3):e83, 2015 [htm](#)
- Van Straaten MG, Cloud BA, Morrow MM, Ludewig PM, Zhao KD. Effectiveness of home exercise on pain, function, and strength of manual wheelchair users with spinal cord injury: a high-dose shoulder program with telerehabilitation. *Arch. Phys. Med. Rehab.* 95(10):1810–1817, 2014 [htm](#)
- Waite MC, Theodoros DG, Russell TG, Cahill LM. Assessing children's speech intelligibility and oral structures, and functions viBendixen RM, Levy CE, Olive ES, Kobb RF, Mann WC. Cost effectiveness of a telerehabilitation program to support chronically ill and disabled elders in their homes. *Telemed. eHealth* 15(1):31-38, 2009 [htm](#)
- Zhang MW, Yeo LL, Ho RC. Harnessing smartphone technologies for stroke care, rehabilitation and beyond. *BMJ Innovations* 1:145-150, 2015 [htm](#)

[RETURN TO TOPICS](#)

--sleep disorders

- Bros JS, Poulet C, Arnol N, Deschaux C, Gandit M, Charavel M. Acceptance of telemonitoring among patients with obstructive sleep apnea syndrome: how is the perceived interest by and for patients? *Telemed. eHealth* 24(5):351-359, 2018 [PubMed](#)
- Fields BG, Behari PP, McCloskey S, et al. Remote ambulatory management of veterans with obstructive sleep apnea. *Sleep* 39(3):501-509, 2016 [htm](#)
- Fox N, Hirsch-Allen AJ, Goodfellow E, et al. The impact of a telemedicine monitoring system on positive airway pressure adherence in patients with obstructive sleep apnea: a randomized controlled trial. *Sleep* 35(4):477-481, 2012 [htm](#)
- Hwang D. Monitoring progress and adherence with positive airway pressure therapy for obstructive sleep apnea: the roles of telemedicine and mobile health applications. *Sleep Med. Clin.* 11(2):161-171, 2016 [PubMed](#)
- Lux L, Boehlecke B, Lohr KN. Effectiveness of portable monitoring devices for diagnosing obstructive sleep apnea: update of a systematic review. Agency for Healthcare Research and Quality Technology Assessments, 2015 [htm](#)
- Munafo D, Hevener W, Crocker M, Willes L, Sridasome S, Muhsin M. A telehealth program for CPAP adherence reduces labor and yields similar adherence and efficacy when compared to standard of care. *Sleep Breathing* 20(2):777-785, 2016 [htm](#)
- Penzel T, Schöbel C, Fietze I. New technology to assess sleep apnea: wearables, smartphones, and accessories. *F1000 Res.* 7:413, 2018 [htm](#)
- Rosen IM, Kirsch DB, Carden KA, et al. Clinical use of a home sleep apnea test: an updated American Academy of Sleep Medicine position statement. *J. Clin. Sleep Med.* 14(12):2075–2077, 2018 [htm](#)
- Singh J, Badr MS, Diebert W, et al. American Academy of Sleep Medicine (AASM) position paper for the use of telemedicine for the diagnosis and treatment of sleep disorders. *J. Clin. Sleep Med.* 11(10):1187-1198, 2015 [htm](#)
- Verbraecken J. Telemedicine applications in sleep disordered breathing: Thinking out of the box. *Sleep Med. Clin.* 11(4):445-459, 2016 [htm](#)
- Villanueva JA, Suarez MC, Garmendia O, et al. The role of telemedicine and mobile health in the monitoring of sleep-breathing disorders: improving patient outcomes. *Smart Homecare Tech. TeleHealth* 4: 1-11, 2017 [htm](#)
- Watson NF. Expanding patient access to quality sleep health care through telemedicine. *J. Clin. Sleep Med.* 12(2):155-156, 2016 [htm](#)
- Zia S, Fields BG. Sleep telemedicine: an emerging field's latest frontier. *Chest* 149(6):1556-1565, 2016 [PubMed](#)

[RETURN TO TOPICS](#)

Home telehealth technology

- Agnisarman S, Narasimha S, Chalil Madathil K, et al. Toward a more usable home-based video telemedicine system: a heuristic evaluation of the clinician user interfaces of home-based video telemedicine systems. *JMIR Hum. Factors* 4(2):e11, 2017 [htm](#)
- AHRQ. Remote cardiac monitoring--Technology assessment. Agency for Healthcare Research and Quality, 2008 [pdf](#)
- Baker J, Stanley A. Telemedicine technology: a review of services, equipment, and other aspects. *Curr. Allergy Asthma Rep.* 18(11):60, 2018 [PubMed](#)
- Borad A. 6 factors to consider for remote patient monitoring system tech feasibility. *eInfochips*, Sept. 11, 2015 [htm](#)
- Brant JA, Leahy K, Mirza N. Diagnostic utility of flexible fiberoptic nasopharyngolaryngoscopy recorded onto a smartphone: A pilot study. *World J. Otorhinolaryngol. Head Neck Surg.* 4(2):135-139, 2018 [htm](#)

Breteler MJ, Janssen JH, Spiering W, et al. Measuring free-living physical activity with three commercially available activity monitors for telemonitoring purposes: validation study. *JMIR Form. Res.* 3(2):e11489, 2019 [htm](#)

Center for Technology and Aging. Position paper: Technologies for remote patient monitoring in older adults. CTA 2010 [htm](#)

Chan C, Inskip JA, Kirkham AR, et al. A smartphone oximeter with a fingertip probe for use during exercise training: usability, validity and reliability in individuals with chronic lung disease and healthy controls. *Physiotherapy* [epub ahead of print], October 2018 [PubMed](#)

Chen W, Chen Z, Cui F. Collaborative and secure transmission of medical data applied to mobile healthcare. *Biomed. Eng. Online* 18(1):60, 2019 [htm](#)

Coughlin SS. Mobile technology for self-monitoring of blood glucose among patients with type 2 diabetes mellitus. *mHealth* 3: 47, 2017 [htm](#)

Daher J, Vijh R, Linthwaite B, et al. Do digital innovations for HIV and sexually transmitted infections work? Results from a systematic review (1996-2017). *BMJ Open* 7(11):e017604, 2017 [htm](#)

de Miguel-Bilbao S, García J, Marcos MD, Ramos V. Short range technologies for ambient assisted living systems in telemedicine: new healthcare environments. Chapt. 8 in R. Madhavan, S. Khalid (eds.), *Telemedicine*. InTech, 2013 [htm](#)

Elgazzar K, Aboelfotoh M, Martin P, Hassanein HS. Ubiquitous health monitoring using mobile web services. *Procedia Comp. Sci.* 10: 332-339, 2012 [pdf](#)

Ericsson ConsumerLab. From healthcare to homecare: The critical role of 5G in healthcare transformation. Ericsson Consumer and Industry Insight Report, June, 2017 [pdf](#)

Erkkola-Anttinen N, Irljala H, Laine MK, et al. Smartphone otoscopy performed by parents. *Telemed. e-Health* [epub ahead of print], July 2018 [PubMed](#)

Espay AJ, Bonato P, Nahab FB, et al. Technology in Parkinson's disease: Challenges and opportunities. *Movement Disorders* 31(9):1272-1282, 2016 [htm](#)

Fatehi F, Menon A, Bird D. Diabetes care in the digital era: a synoptic overview. *Curr. Diab. Rep.* 18(7):38, 2018 [PubMed](#)

Haak T, Hanaire H, Ajjan R, et al. Use of flash glucose-sensing technology for 12 months as a replacement for blood glucose monitoring in insulin-treated type 2 diabetes. *Diabetes Ther.* 8(3):573-586, 2017 [htm](#)

Hassanalieragh M, Page A, Soyata T, et al. Health monitoring and management using Internet-of-Things (IoT) sensing with cloud-based processing: opportunities and challenges. Conference paper, IEEE International Conference on Services Computing, 2015 [pdf](#)

Heintzman ND. A digital ecosystem of diabetes data and technology: services, systems, and tools enabled by wearables, sensors, and apps. *J. Diabetes Sci. Technol.* 10(1):35-41, 2015 [htm](#)

Khan JY, Yuce MR, Bulger G, Harding B. Wireless Body Area Network (WBAN) design techniques and performance evaluation. *J. Med. Syst.* 36(3):1441-1457, 2012 [pdf](#)

LeadingAge Center for Aging Services Technologies. CAST telehealth and RPM selection tool. Leading Age, 2017 [htm](#); Selection matrix: [xls](#)

LeadingAge Center for Aging Services Technologies. Telehealth and remote patient monitoring for long-term and post-acute care: A primer and provider selection guide. LeadingAge CAST Report, 2017 [htm](#)

Leth S, Hansen J, Nielsen OW, Dinesen B. Evaluation of commercial self-monitoring devices for clinical purposes: results from the future patient trial, phase I. *Sensors* 17(1): E211, 2017 [PubMed](#)

Majumder S, Mondal T, Deen MJ. Wearable sensors for remote health monitoring. *Sensors* 17(1): E130, 2017 [htm](#)

Majumder S, Deen MJ. Smartphone sensors for health monitoring and diagnosis. *Sensors* 19(9): pii: E2164, 2019 [htm](#)

Mangi MA, Rehman H, Rafique M, Illovsky M. Ambulatory heart failure monitoring: a systemic review. *Cureus* 9(4): e1174, 2017 [htm](#)

Masterson Creber RM, Hickey KT, Maurer MS. Gerontechnologies for older patients with heart failure: what is the role of smartphones, tablets, and remote monitoring devices in improving symptom monitoring and self-care management? *Curr. Cardiovasc. Risk Rep.* 10(10): 30, 2016 [htm](#)

Mora N, Matrella G, Ciampolini P. Cloud-based behavioral monitoring in smart homes. *Sensors* 18(6): E1951, 2018 [htmy](#)

Narasimha S, Agnisarman S, Chalil Madathil K, et al. Designing home-based telemedicine systems for the geriatric population: an empirical study. *Telemed. e-Health* ;24(2):94-110, 2018 [PubMed](#)

Narasimha S, Agnisarman S, Madathil KC, et al. An investigation of the usability issues of home-based video telemedicine systems with geriatric patients. *Proceedings of the Human Factors and Ergonomics Society* 60(1): 1804-1808, 2016 [pdf](#)

National Telehealth Technology Assessment Resource Center. Home telehealth toolkit. TTAC, 2011 [htm](#)

Niksch AL, Davidson SJ. Remote Patient Monitoring (RPM) - Security and other adoption barriers. HIMSS mHealth Community, December, 2014 [pdf](#)

Parmanto B, Saptono A, Pramana G, et al. VISYTER: versatile and integrated system for telerehabilitation. *Telemed. e-Health* 16(9):939-944, 2010 [pdf](#)

- Pawar P, Jones V, van Beijnum BJ, Hermens H. A framework for the comparison of mobile patient monitoring systems. *J. Biomed. Inform.* 45(3):544-556, 2012 [pdf](#)
- Pierleoni P, Pernini L, Belli A, Palma L. An Android-based heart monitoring system for the elderly and for patients with heart disease. *Int. J. Telemed. Appl.* 2014: 625156, 2014 [htm](#)
- Rezaeibagha F, Mu Y. Practical and secure telemedicine systems for user mobility. *J. Biomed. Inform.* 78:24-32, 2018 [PubMed](#)
- Schnall R, Cho H, Liu J. Health Information Technology Usability Evaluation Scale (Health-ITUES) for usability assessment of mobile health technology: validation study. *JMIR mHealth uHealth* 6(1):e4, 2018 [htm](#)
- Shah MU, Sohal M, Valdez TA, Grindle CR. iPhone otoscopes: Currently available, but reliable for tele-otoscopy in the hands of parents? *Int. J. Pediatr. Otorhinolaryngol.* 106:59-63, 2018 [PubMed](#)
- Suh M, Chen C, Woodbridge J, et al. A remote patient monitoring system for congestive heart failure. *J. Med. Syst.* 35(5): 1165–1179, 2011 [htm](#)
- Task Force on Research and Development for Technology to Support Aging Adults. Emerging technologies to support an aging population. Committee on Technology of the National Science & Technology Council, March 2019 [pdf](#)
- Triantafyllidis AK, Koutkias VG, Chouvarda I, et al. Framework of sensor-based monitoring for pervasive patient care. *Healthcare Technol. Lett.* 3(3):153-158, 2016 [htm](#)
- van Velsen L, Frazer S, N'dja A, Ammour N, Del Signore S, Zia G, Hermens H. The reliability of using tablet technology for screening the health of older adults. *Stud. Health Technol. Inform.* 247:651-655, 2018 [PubMed](#)
- Vegesna A, Tran M, Angelaccio M, Arcona S. Remote patient monitoring via non-invasive digital technologies: A systematic review. *Telemed. e-Health* 23(1): 3-17, 2017 [htm](#)
- Vermeulen J, Neyens JCL, Spreeuwenberg MD, et al. User-centered development and testing of a monitoring system that provides feedback regarding physical functioning to elderly people. *Patient Prefer Adherence* 7: 843-854, 2013 [htm](#)
- Yerukhimovich A, Balebako R, Boustead AE, et al. Can smartphones and privacy coexist? Assessing technologies and regulations protecting personal data on Android and iOS devices. RAND Research Report, October 2016 [htm](#)
- Zhao F, Li M, Tsien JZ. The emerging wearable solutions in mHealth. Chapt. 1 in: W. Bonney (ed.), *Mobile Health Technologies - Theories and Applications*. In Tech, 2016 [htm](#)
- Zimetbaum P, Goldman A. Ambulatory arrhythmia monitoring: Choosing the right device. *Circulation* 122:1629-1636, 2010 [htm](#)

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