

Compiled by Michael Edwards, PhD, Consultant for Northeast Telehealth Resource Center, Aug. 2017

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Briefs for policy makers

- American Hospital Association. Telehealth: Helping hospitals deliver cost-effective care. *AHA Issue Brief*, April 2016 ([htm](#))
- Bashshur RL, Shannon G, Krupinski EA, Grigsby J. Sustaining and realizing the promise of telemedicine. *Telemed. eHealth* 19(5):339-345, 2013 ([htm](#))
- Center for Connected Health Policy. Community health centers and telehealth: A cost analysis report & recommendations. CCHP, July, 2015 ([htm](#))
- Center for Connected Health Policy. Recommendations from the CCHP Telehealth and the Triple Aim Project: Advancing telehealth knowledge and practice. CCHP, September 2014 ([htm](#))
- Gilman M, Stensland J. Telehealth and Medicare: Payment policy, current use, and prospects for growth. *Medicare & Medicaid Res. Rev.* 3(4): E1-14, 2013 ([htm](#))
- Health Care Cost Institute. An examination of private payer reimbursements to primary care providers for healthcare services using telehealth, United States 2009–2013. National Academy for State Health Policy, 2016 ([pdf](#))
- Medicare Payment Advisory Commission. Report to the Congress: Medicare and the Health Care Delivery System. MedPAC, June 2016 ([pdf](#))
- Office of Health Policy, Office of the Assistant Secretary for Planning and Evaluation. Report to Congress: E-health and telemedicine. U.S. Department of Health and Human Services, August 12, 2016 ([pdf](#))
- Ontario Telemedicine Network. Evidence review: Telehomecare executive summary. OTN, 2011 ([htm](#))
- UConn Health. The use of eConsults for specialty referrals: A policy report for the University of Connecticut-Medicaid Partnership. University of Connecticut Center for Public Health and Health Policy, 2014 ([pdf](#))

Genral reviews

- Bashshur RL, Howell JD, Krupinski EA, Harms KM, Bashshur N, Doarn CR. The empirical foundations of telemedicine interventions in primary care. *Telemed. eHealth* 22(5):342-375, 2016 ([htm](#))
- Bashshur RL, Shannon GW, Smith BR. The empirical foundations of telemedicine interventions for chronic disease management. *Telemed. eHealth* 20(9):769-800, 2014 ([pdf](#))
- Bashshur RL, Shannon GW, Smith BR, Woodward MA. The empirical evidence for the telemedicine intervention in diabetes management. *Telemed. eHealth* 21(5):321-354, 2015 ([pdf](#))
- Bergmo TS. Can economic evaluation in telemedicine be trusted? A systematic review of the literature. *Cost Eff. Resource Alloc.* 7:18, 2009 ([htm](#))
- Bergmo TS. Using QALYs in telehealth evaluations: a systematic review of methodology and transparency. *BMC Health Serv. Res.* 14:332, 2014 ([htm](#))
- Bergmo TS. How to measure costs and benefits of ehealth interventions: an overview of methods and frameworks. *J. Med. Internet Res.* 17(11):e254, 2015 ([htm](#))
- 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](#))
- 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](#))

- Catlin, M, Cusack CM, Pan E, Hook JM, Vincent A, Kaelber DC, Bates DW, Middleton B. The value of provider-to-provider telehealth technologies. Center for Information Technology Leadership, Partners HealthCare System, Charlestown, MA, 2007 ([pdf](#))
- Center for Connected Health Policy. Cost effectiveness research catalogue. CCHP, July 2016 ([htm](#))
- Chelius L, Hook JM, Rodriguez MP. Financial analysis of Southside Coalition of Community Health Centers' telehealth experience. California Healthcare Foundation, April 2011. ([pdf](#))
- Chen S, Cheng A, Mehta K. A review of telemedicine business models. *Telemed eHealth* 19(4):287-297, 2013. [htm](#)
- Cusack CM, Pan E, Hook JM, Vincent A, Kaelber DC, Middleton B. The value proposition in the widespread use of telehealth. *J. Telemed. Telecare* 14(4):167-168, 2008 ([htm](#))
- Dávalos ME, French MT, Burdick AE, Simmons SC. Economic evaluation of telemedicine: review of the literature and research guidelines for benefit-cost analysis. *Telemed. eHealth* 15(10):933-948, 2009 ([pdf](#))
- de la Torre-Díez I, López-Coronado M, Vaca C, Aguado JS, de Castro C. Cost-utility and cost-effectiveness studies of telemedicine, electronic, and mobile health systems in the literature: a systematic review. *Telemed. eHealth* 21(2): 81–85, 2015 ([htm](#))
- Ekeland AG, Bowes A, Flottorp S. Effectiveness of telemedicine: a systematic review of reviews. *Int. J. Med. Inform.* 79(11):736-771, 2010 ([pdf](#))
- Ekeland AG, Bowes A, Flottorp S. Methodologies for assessing telemedicine: a systematic review of reviews. *Int. J. Med. Inform.* 81(1):1-11, 2012 ([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](#))
- Flodgren G, Rachas A, Farmer AJ, Inzitari M, Shepperd S. Interactive telemedicine: effects on professional practice and health care outcomes. *Cochrane Database Syst Rev.* 9:CD002098, 2015 ([htm](#))
- Gamble JE, Savage GT, Icenogle ML. Value-chain analysis of a rural health program: toward understanding the cost benefit of telemedicine applications. *Hospital Topics* 82(1):10-17, 2004. ([pdf](#))
- Golder S, Urdahl H, Davies L, Eastwood A. Generalisability in economic evaluation studies in healthcare: a review and case studies. *Health Technology Assessment, NHS R&D HTA Prog.* 8:124-133, 2004. ([htm](#))
- Hailey D, Yu P. Cost-effectiveness of telehealth in the management of chronic conditions. *J. Comp. Effectiveness Res.* 2(4):379-381, 2013 ([PubMed](#))
- Hersh WR, Helfand M, Wallace JA, Kraemer DF, Patterson PK, Shapiro SE, Greenlick MR. A systematic review of the efficacy of telemedicine for making diagnostic and management decisions. *J. Telemed. Telecare* 8: 197-209, 2002 ([pdf](#))
- Hersh WR, Hickam DH, Severance S, Dana T, Krages S, Helfand M. Telemedicine for the Medicare Population (Update). Summary, Evidence Report/Technology Assessment. Agency for Healthcare Research and Quality, Rockville, MD, 2006. ([htm](#))
- Jacklin PB, Roberts JA, Wallace P, Haines A, Harrison R, Barber JA, Thompson SG, Lewis L, Currell R, Parker S, Wainwright P; Virtual Outreach Project Group. Virtual outreach: economic evaluation of joint teleconsultations for patients referred by their general practitioner for a specialist opinion. *Brit. Med. J.* 327:84, 2003 ([htm](#))
- Jennett P, Scott R, Hailey D, Ohinmaa A, Thomas R, Anderson C, Young B, Lorenzetti D, Hall LA, Milkovich L, Perverseff T, Claussen C. Socio-economic impact of telehealth: evidence now for health care in the future. Vol. 1-State of the Science Report. Vol. 2-Policy Report. Health Telematics Unit, University of Calgary, 2003 ([htm](#))
- Kalankesh LR, Pourasghar F, Nicholson L, Ahmadi S, Hosseini M. Effect of telehealth interventions on hospitalization indicators: a systematic review. *Perspect. Health Inf. Manag.* 13(Fall):1, 2016 ([htm](#))
- Marchell R, Locatis C, Burges G, Maisiak R, Liu WL, Ackerman M. Comparing high definition live interactive and store-and-forward consultations to in-person examinations. *Telemed. eHealth* 23(3):213-218, 2017 ([PubMed](#))
- McConnochie KM. Pursuit of value in connected healthcare. *Telemed.eHealth* 21(11):863-869, 2015 ([htm](#))
- 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](#))

- Pan E, Cusack C, Hook J, Vincent A, Kaelber DC, Bates DW, Middleton B. The value of provider-to-provider telehealth. *Telemed. eHealth* 14(5):446-453, 2008 ([pdf](#))
- Rada G. Telemedicine: are we advancing the science? *Cochrane Database Syst. Rev.* (9):ED000105, 2015([htm](#))
- Russo JE, McCool RR, Davies L. VA telemedicine: An analysis of cost and time savings. *Telemed. eHealth* 22(3):209-215, 2016 ([htm](#))
- Sculpher M, Pang F, Manca A, et al. Generalisability in economic evaluation studies in healthcare: a review and case studies. *Health Technology Assessment, NHS R&D HTA Prog.* 8:124-133, 2004 ([htm](#))
- 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](#))
- Vasudevan MM, Hurr SD, Green MC, et al. The clinical impact of electronic consultation in diabetes care. *Fed. Pract.* 31(3):32-36, 2014 ([htm](#))
- Vimalananda VG, Gupte G, Seraj SM, et al. Electronic consultations (e-consults) to improve access to specialty care: A systematic review and narrative synthesis. *J. Telemed. Telecare* 21(6): 323-330 , 2015 ([htm](#))
- Wade VA, Karnon J, Elshaug AG, Hiller JE. A systematic review of economic analyses of telehealth services using real time video communication. *BMC Health Serv. Res.* 10: 233, 2010 ([htm](#))
- Wallace P, Barber J, Clayton W, Currell R, Fleming K, Garner P, Haines A, Harrison R, Jacklin P, Jarrett C, Jayasuriya R, Lewis L, Parker S, Roberts J, Thompson S, Wainwright P. Virtual outreach: a randomised controlled trial and economic evaluation of joint teleconferenced medical consultations. *Health Technol. Assess.* 8(50):1-106, 2004 ([htm](#))
- Wang F. The role of cost in telemedicine evaluation. *Telemed. e-Health* 15(10): 949-955, 2009 ([htm](#))
- Whitacre BE, Hartman PS, Boggs SW. The economic impact of telemedicine capability in a rural hospital. National Center for Rural Health Works, Oklahoma State University, 2007 ([pdf](#))
- Whitten PS, Mair FS, Haycox A, May CR, Williams TL, Hellmich S. Systematic review of cost effectiveness studies of telemedicine interventions. *Brit. Med. J.* 324:1434–1437, 2002. ([htm](#))
- Wootton R, Bahaadinbeigy K, Hailey D. Estimating travel reduction associated with the use of telemedicine by patients and healthcare professionals: proposal for quantitative synthesis in a systematic review. *BMC Health Serv. Res.* 11:185, 2011. ([htm](#))
- Wootton R. Twenty years of telemedicine in chronic disease management – an evidence synthesis. *J Telemed Telecare.* 18(4): 211–220, 2012. ([htm](#))
- Zhai YK, Zhu WJ, Cai YL, Sun DX, Zhao J. Clinical- and cost-effectiveness of telemedicine in type 2 diabetes mellitus: a systematic review and meta-analysis. *Medicine (Baltimore)* 93(28):e312, 2014 ([htm](#))

Home telehealth and remote monitoring

--Recommended overviews:

- Bashshur RL, Shannon GW, Smith BR, Woodward MA. The empirical evidence for the telemedicine intervention in diabetes management. *Telemed. eHealth* 21(5):321-354, 2015 ([pdf](#))
- Canadian Agency for Drugs and Technologies in Health. Telemedicine for patients with diabetes: clinical and cost-effectiveness. CADTH Rapid Response Reports, August 2014 ([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 patients with heart failure: a review of the clinical effectiveness, cost-effectiveness and guidelines. CADTH Rapid Response Reports, Dec. 2015 ([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 ([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](#))
- de la Torre-Díez I, López-Coronado M, Vaca C, Aguado JS, de Castro C. Cost-utility and cost-effectiveness studies of telemedicine, electronic, and mobile health systems in the literature: a systematic review. *Telemed. eHealth* 21(2): 81–85, 2015 ([htm](#))

- Department of Veterans Affairs Office of Inspector General. Audit of the home telehealth program. Veterans Health Administration, March, 2015 [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](#))
- 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 Failure* 13(9):1028-1040, 2011 ([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](#))
- 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 ([htm](#))
- 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](#))
- McBain H, Shipley M, Newman S. The impact of self-monitoring in chronic illness on healthcare utilisation: a systematic review of reviews. *BMC Health Serv. Res.* 15:565, 2015 ([htm](#))
- Nakamura N, Koga T, Iseki H. A meta-analysis of remote patient monitoring for chronic heart failure patients. *J. Telemed. Telecare* 20(1):11-17, 2014 ([htm](#))
- Ontario Telemedicine Network. Evidence review: Telehomecare for heart failure patients – executive summary. OTN, 2011 ([htm](#))
- Rojas SV, Gagnon M-P. A systematic review of the key indicators for assessing telehomecare cost-effectiveness. *Telemed. eHealth* 14(9): 896–904, 2008 ([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](#))
- Zhai YK, Zhu WJ, Cai YL, Sun DX, Zhao J. Clinical- and cost-effectiveness of telemedicine in type 2 diabetes mellitus: a systematic review and meta-analysis. *Medicine (Baltimore)* 93(28):e312, 2014 ([htm](#))

--selected studies:

- 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](#))
- 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: 344-350, 2009 ([htm](#))
- Bowles KH, Hanlon AL, Glick HA, 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](#))
- Chaudhry SI, Mattern JA, Curtis JP, et al. Telemonitoring in patients with heart failure. *New Engl. J. Med.* 363(24):2301-2309, 2010 ([htm](#))
- Chen HF, Kalish MC, Pagan JA. Telehealth and hospitalizations for Medicare home healthcare patients. *Amer. J. Manag. Care* 17(6 Spec No.):e224-330, 2011 ([htm](#)) (requires free registration).
- Chen Y-H, Lin Y-H, Hung C-S, et al. Clinical outcome and cost-effectiveness of a synchronous telehealth service for seniors and nonseniors with cardiovascular diseases: quasi-experimental study. *J. Med. Internet Res* 15(4):e87, 2013 ([htm](#))
- Dansky KH, Palmer L, Shea D, Bowles KH. Cost analysis of telehomecare. *Telemed. eHealth* 7(3):225-232, 2001 ([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](#))
- 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](#))
- Health Quality Ontario. Home telemonitoring for Type 2 diabetes: an evidence-based analysis. *Ontario Health Technology Assessment Series* 9(24):1-38, 2009 ([htm](#))

- Henderson C, Knapp M, Fernandez J-L, 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: 1035, 2013 ([htm](#))
- Hill RD, et al. Review of Veterans Health Administration telemedicine interventions. *Am. J. Manag. Care* 16(12 suppl. HIT):e302-310, 2010 ([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](#))
- Jensen MH, Cichosz SL, Hejlesen OK, et al. Clinical impact of home telemonitoring on patients with chronic obstructive pulmonary disease. *Telemed. eHealth* 18(9):674-678, 2012 ([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](#))
- Klonoff DC. The current status of mHealth for diabetes: will it be the next big thing? *J. Diabetes Sci. Technol.* 7(3):749-758, 2013 ([htm](#))
- Koehler F, Winkler S, et al. Impact of remote telemedical management on mortality and hospitalizations in ambulatory patients with chronic heart failure. *Circulation* 123:1873-1880, 2011 ([htm](#))
- Knutson D, Ripley J. An economic analysis of technology enabled care in assisted and independent living communities from an owner or operator perspective. Hallelund Habicht Consulting LLC, 2013 ([pdf](#))
- Landolina M, Perego GB, Lunati M, et al. Remote monitoring reduces healthcare use and improves quality of care in heart failure patients with implantable defibrillators: the evolution of management strategies of heart failure patients with implantable defibrillators (EVOLVO) study. *Circulation* 125(24):2985-2992, 2012 ([htm](#))
- Maeng DD, Starr AE, Tomcavage JF, et al. Can telemonitoring reduce hospitalization and cost of care? A health plan's experience in managing patients with heart failure. *Pop. Health Man.* May [epub before print], 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](#))
- 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](#))
- McLean S, Chandler D, Nurmatov U, Liu J, Pagliari C, Car J, Sheikh A. Telehealthcare for asthma: a Cochrane review. *Can. Med. Assoc. J.* 183(11):E733-742, 2011. ([htm](#))
- 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](#))
- Moreno L, Shapiro R, Dale SB, Foster L, Chen A. Final report to Congress on the Informatics for Diabetes Education and Telemedicine (IDEATel) Demonstration, Phases I and II. Mathematica Policy Research, Sept, 2008 ([htm](#))
- Newman SP, Bardsley M, Barlow J, et al. The Whole Systems Demonstrator Evaluation of Telehealth and Telecare. U.K. Department of Health Policy Research Programme, 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](#))
- 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](#))
- 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](#))
- 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](#))
- 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. eHealth* (ahead of print, July 2014), 2014 ([htm](#))

- Shea S; IDEATel Consortium. The Informatics for Diabetes and Education Telemedicine (IDEATel) project. *Trans. Amer. Clin. Climatol. Assoc.* 118:289-304, 2007 ([htm](#))
- Sivakumaran D, Earle KA. Telemonitoring: use in the management of hypertension. *Vasc. Health Risk Manag.* 10:217-224, 2014 ([htm](#))
- 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](#))
- Steventon A, Bardsley M, et al. Effect of telehealth on use of secondary care and mortality: findings from the Whole System Demonstrator cluster randomised trial. *Brit. Med. J.* 344:e3874, 2012. ([htm](#))
- Steventon A, Ariti C, Fisher E, Bardsley M. Effect of telehealth on hospital utilisation and mortality in routine clinical practice: a matched control cohort study in an early adopter site. *BMJ Open* 6(2):e009221, 2016 ([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](#))
- Takahashi PY, Pecina JL, Upatising B, et al. A randomized controlled trial of telemonitoring in older adults with multiple health issues to prevent hospitalizations and emergency department visits. *Arch. Intern. Med.* 172(10):773-779, 2012 ([htm](#))
- Thokala P, Baalbaki H, Brennan A, et al. Telemonitoring after discharge from hospital with heart failure: cost-effectiveness modelling of alternative service designs. *Brit. Med. J Open* 3(9):e003250, 2013. ([htm](#))
- Udsen FW, Lilholt PH, Hejlesen O, Ehlers LH. Effectiveness and cost-effectiveness of telehealthcare for chronic obstructive pulmonary disease: study protocol for a cluster randomized controlled trial. *Trials* 15:178, 2014 ([htm](#))
- Wakefield BJ, Ward MM, Holman JE. Evaluation of home telehealth following hospitalization for heart failure: a randomized trial. *Telemed. eHealth* 14(8):753-761, 2008 ([htm](#))

Telestroke

- Bladin CF, Cadilhac DA. Effect of telestroke on emergent stroke care and stroke outcomes. *Stroke* 45(6):1876-1880, 2014 ([htm](#))
- Demaerschalk BM, Fanale CV, Meyer BC, Switzer JA. Practical guide to telestroke: Business model strategies; Telestroke network fundamentals; Overcoming challenges. National Stroke Association Webinars, 2011 ([htm](#))
- Demaerschalk BM, Hwang HM, Leung G. Cost analysis review of stroke centers, telestroke, and rt-PA. *Amer. J. Manag. Care* 16(7):537-544, 2010 ([htm](#))
- Demaerschalk BM, Switzer JA, Xie J. Cost utility of hub-and-spoke telestroke networks from societal perspective. *Amer. J. Manag. Care* 19(12):976-985, 2013 ([htm](#))
- Fanale CV, Demaerschalk BM. Telestroke network business model strategies. *J. Stroke Cerebrovasc. Dis.* 21(7):530-534, 2012 ([PubMed](#))
- Finnane A, Dallest K, Janda M, Soyer HP. Teledermatology for the diagnosis and management of skin cancer: a systematic review. *JAMA Dermatol.* [epub ahead of print] December 2016 ([PubMed](#))
- Handschu R, Scibor M, Nüchel M, Asshoff D, Willaczek B, Erbguth F, Schwab S, Daumann F. Teleneurology in stroke management: costs of service in different organizational models. *J. Neurol.* 261(10):2003-2008, 2014 ([htm](#))
- Marchell R, Locatis C, Burgess G, Maisiak R, Liu WL, Ackerman M. Patient and provider satisfaction with teledermatology. *Telemed. eHealth* [epub ahead of print], April 2017 ([PubMed](#))
- Nelson RE, Okon N, Lesko AC, et al. The cost-effectiveness of telestroke in the Pacific Northwest region of the USA. *J. Telemed. Telecare* 22(7):413-421, 2016 ([htm](#))
- Nelson RE, Saltzman GM, Skalabrin EJ, Demaerschalk BM, Majersik JJ. The cost-effectiveness of telestroke in the treatment of acute ischemic stroke. *Neurology*;77(17):1590-1598, 2011. ([htm](#))
- Rubin MN, Wellik KE, Channer DD, Demaerschalk BM. A systematic review of telestroke. *Postgrad. Med.* 125(1):45-50, 2013 ([htm](#))
- Switzer JA, Demaerschalk BM, Xie J, Fan L, Villa KF, Wu EQ. Cost-effectiveness of hub-and-spoke telestroke networks for the management of acute ischemic stroke from the hospitals' perspectives. *Circ. Cardiovasc. Qual. Outcomes* 6(1):18-26, 2013 ([htm](#))

- Warshaw EM, Hillman YJ, Greer NL, Hagel EM, MacDonald R, Rutks IR, Wilt TJ. Tele dermatology for diagnosis and management of skin conditions: a systematic review. *J. Amer. Acad. Dermatol.* 64(4):759-772, 2011 ([pdf](#))
- Wechsler LR, Demaerschalk BM, Schwamm LH, et al; American Heart Association Stroke Council; Council on Epidemiology and Prevention; and Council on Quality of Care and Outcomes Research. Telemedicine quality and outcomes in stroke: a scientific statement for healthcare professionals from the American Heart Association/American Stroke Association. *Stroke* 47: e1-23, 2016 ([htm](#))
- Whited JD. Summary of the status of tele dermatology research. Tele dermatology Special Interest Group, American Telemedicine Association, 2016 ([pdf](#))
- Whited Y, Kwong MW, Calouro C. Telestroke research catalog. Center for Connected Health Policy, 2015 ([pdf](#))
- Yang JP, Wu TC, Tegeler C, et al. Targeting telestroke: benchmarking time performance in telestroke consultations. *J. Stroke Cerebrovasc. Dis.* 22(4):470-475, 2013 ([PubMed](#))

Tele dermatology

- Armstrong AW, Dorer DJ, Lugin NE, Kvedar JC. Economic evaluation of interactive tele dermatology compared with conventional care. *Telemed. eHealth* 13(2):91-99, 2007 ([pdf](#))
- Bashshur RL, Shannon GW, Tejasvi T, Kvedar JC, Gates M. The empirical foundations of tele dermatology: A review of the research evidence. *Telemed. eHealth* 21(12):953-979, 2015 ([htm](#))
- Eminović N, Dijkgraaf MG, Berghout RM, Prins AH, Bindels PJ, de Keizer NF. A cost minimisation analysis in tele dermatology: model-based approach. *BMC Health Serv. Res.* 10:251, 2010 ([htm](#))
- Liddy C, Drosinis P, Deri Armstrong C, McKellips F, Afkham A, Keely E. What are the cost savings associated with providing access to specialist care through the Champlain BASE eConsult service? A costing evaluation. *BMJ Open* 6(6):e010920, 2016 ([htm](#))
- Livingstone J, Solomon J. An assessment of the cost-effectiveness, safety of referral and patient satisfaction of a general practice tele dermatology service. *London J. Prim. Care* 7(2):31-35, 2015 ([htm](#))
- Ludzik J, Witkowski AM, Roterman-Konieczna I, et al. Improving diagnostic accuracy of dermoscopically equivocal pink cutaneous lesions with reflectance confocal microscopy in telemedicine settings: double reader concordance evaluation of 316 cases. *PLoS* 11(9): e0162495, 2016 ([htm](#))
- Moreno-Ramirez D, Ferrandiz L, Ruiz-de-Casas A, Nieto-Garcia A, Moreno-Alvarez P, Galdeano R, Camacho FM. Economic evaluation of a store-and-forward tele dermatology system for skin cancer patients. *J. Telemed. Telecare* 15(1):40-45, 2009 ([pdf](#))
- Ndegwa S, Prichett-Pejic W, McGill S. et al. Tele dermatology services: Rapid review of diagnostic, clinical management, and economic outcomes. Technology report; no. 135, Canadian Agency for Drugs and Technologies in Health; 2010 ([pdf](#))
- Nelson CA, Takeshita J, Wanat KA, et al. Impact of store-and-forward (SAF) tele dermatology on outpatient dermatologic care: A prospective study in an underserved urban primary care setting. *J. Amer. Acad. Dermatol.* 2016; 74(3):484-490. ([htm](#))
- Pak HS, Datta SK, Triplett CA, Lindquist JH, Grambow SC, Whited JD. Cost minimization analysis of a store-and-forward tele dermatology consult system. *Telemed. e-Health* 15(2):160-165, 2009 ([htm](#))
- Pathipati A, Armstrong A. Tele dermatology: Outcomes and economic considerations. Chapt. 17 in: *Telemedicine Techniques and Applications*, G. Grasczew, S. Rakowsky, (eds.), Intech, 2011 ([htm](#))
- Pathipati AS, Ko JM. Implementation and evaluation of Stanford Health Care direct-care tele dermatology program. *SAGE Open Med.* 4:2050312116659089, 2016 ([htm](#))
- Rees RS, Bashshur N. The effects of TeleWound management on use of service and financial outcomes. *Telemed. eHealth* 13(6):663-674, 2007 ([pdf](#))
- Snoswell C, Finnane A, Janda M, Soyer HP, Whitty JA. Cost-effectiveness of store-and-forward tele dermatology: a systematic review. *JAMA Dermatol.* 152(6):702-708, 2016 ([PubMed](#))
- Uscher-Pines L, Malsberger R, Burgette L, Mulcahy A, Mehrotra A. Effect of tele dermatology on access to dermatology care among Medicaid enrollees. *JAMA Dermatol.* [epub before print] , May 4, 2016 ([htm](#))
- Wootton R, Bloomer SE, Corbett R, Eedy DJ, Hicks N, Lotery HE, Mathews C, Paisley J, Steele K, Loane MA. Multicentre randomised control trial comparing real time tele dermatology with conventional outpatient dermatological care: societal cost-benefit analysis. *Brit. Med. J.* 320:1252-1256, 2000 ([htm](#))

Emergency and critical care telemedicine

- Alqusairi D. On-the-scene video consultations with emergency physicians reduce unnecessary ambulance transports and emergency department visits, connect people to medical homes. *AHRQ Health Care Innovations Exchange, Service Delivery Innovation Profile*, November, 2015 ([htm](#))
- Amadi-Obi A, Gilligan P, Owens N, O'Donnell C. Telemedicine in pre-hospital care: a review of telemedicine applications in prehospital environment. *Int. J. Emerg. Med.* 7:29, 2014 ([pdf](#))
- 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](#))
- Canadian Agency for Drugs and Technologies in Health. Emergency telehealth for urgent conditions in long-term care facilities: clinical effectiveness, cost-effectiveness, and guidelines. *CADTH Rapid Response Reports*, May 2015 ([htm](#))
- Dayal P, Hojman NM, Kisse J, et al. Impact of telemedicine on severity of illness and outcomes among children transferred from referring emergency departments to a children's hospital PICU. *Pediatr. Crit. Care Med.* 17(6):516-521, 2016 ([htm](#))
- Dharmar M, Sadorra CK, Leigh P, et al. The financial impact of a pediatric telemedicine program: A children's hospital's perspective. *Telemed. eHealth* 19(7): 502-508, 2013 ([htm](#))
- Dharmar M, Kuppermann N, Romano PS, et al. Telemedicine consultations and medication errors in rural emergency departments. *Pediatrics* 132(6):1090-1097, 2013 ([htm](#))
- Dharmar M, Romano PS, Kuppermann N, et al. Impact of critical care telemedicine consultations on children in rural emergency departments. *Crit. Care Med.* 41(10):2388-2395, 2013 ([htm](#))
- Kahn JM, Le TQ, Barnato AE, Hravnak M, Kuza CC, Pike F, Angus DC. ICU telemedicine and critical care mortality: A national effectiveness study. *Med. Care* 54(3): 319-329, 2016 ([htm](#))
- Kumar G, Falk DM, Bonello RS, Kahn JM, Perencevich E, Cram P. The costs of critical care telemedicine programs: A systematic review and analysis. *Chest*, Jul 10, 2012. ([htm](#))
- Khunlertkit A, Carayon P. Contributions of tele-intensive care unit (tele-ICU) technology to quality of care and patient safety. *J. Crit. Care* 28(3):315, 2013 ([htm](#))
- Langabeer JR 2nd, Gonzalez M, Alqusairi D, et al. Telehealth-enabled emergency medical services program reduces ambulance transport to urban emergency departments. *West. J. Emerg. Med.* 17(6):713-720, 2016 ([htm](#))
- Leong JR, Sirio CA, Rotondi AJ. eICU program favorably affects clinical and economic outcomes. *Crit. Care.* 9(5):E22, 2005 ([htm](#))
- Lilly CM, McLaughlin JM, Zhao H, Baker SP, Cody S, Irwin RS; UMass Memorial Critical Care Operations Group. A multicenter study of ICU telemedicine reengineering of adult critical care. *Chest* 145(3):500-507, 2014 ([PubMed](#))
- Lilly CM, Motzkus C, Rincon T, et al. ICU telemedicine program financial outcomes. *Chest* 151(2):286-297, 2017 ([PubMed](#))
- Myers N, Wehrwein P. Cost, outcomes mixed for tele-ICU. *Manag. Care* 24(7):19-20, 2015 ([htm](#))
- Narasimhan M, Druss BG, Hockenberry JM, et al. Quality, utilization, and economic impact of a statewide emergency department telepsychiatry program. *Psychiatr. Serv.* 66(11): 1167–1172, 2015 ([htm](#))
- Nassar BS, Vaughan-Sarrazin MS, Jiang L, Reisinger HS, Bonello R, Cram P. Impact of an intensive care unit telemedicine program on patient outcomes in an integrated health care system. *JAMA Intern. Med.* 174(7):1160-1167, 2014 ([htm](#))
- Prabhakaran K, Lombardo G, Latifi R. Telemedicine for trauma and emergency management: an overview. *Curr. Trauma Rep.* 2(3):115-123, 2016 ([htm](#))
- Raikhelkar J, Raikhelkar JK. The impact of telemedicine in cardiac critical care. *Crit. Care Clin.* 31(2):305-317, 2015 ([pdf](#))
- Sadaka F, Palagiri A, Trottier S, et al. Telemedicine intervention improves ICU outcomes. *Crit. Care Res. Pract.* 2013:456389, 2013. ([htm](#))
- Varrell JR, Boyce G, Baker S, Robinson B, Boyce OC. Telepsychiatry for hospital systems—White Paper. In *Sight Telepsychiatry*, Inc, 2015 ([htm](#))
- Ward MM, Jaana M, Natafagi N. Systematic review of telemedicine applications in emergency rooms. *Int. J. Med. Inform.* 84(9):601-616, 2015 ([htm](#))
- Webb CL, Waugh CL, Grigsby J, et al. Impact of telemedicine on hospital transport, length of stay, and medical outcomes in infants with suspected heart disease: a multicenter study. *J. Amer. Soc. Echocardiogr.* 26(9):1090-1098, 2013 ([htm](#))

- Wilcox ME, Adhikari NK. The effect of telemedicine in critically ill patients: systematic review and meta-analysis. *Crit. Care* 16(4):R127, 2012 ([htm](#))
- Willmitch B, Golembeski S, Kim SS, Nelson LD, Gidel L. Clinical outcomes after telemedicine intensive care unit implementation. *Crit. Care Med.* 40(2):450-454, 2012 ([htm](#))
- Yang NH, Dharmar M, Yoo BK, Leigh JP. Economic evaluation of pediatric telemedicine consultations to rural emergency departments. *Med. Decision Making* 35: 773-783, 2015 ([htm](#))
- Young LB, Chan PS, Lu X, Nallamothu BK, Sasson C, Cram PM. Impact of telemedicine intensive care unit coverage on patient outcomes: a systematic review and meta-analysis. *Arch. Intern. Med.* 171(6):498-506, 2011. ([htm](#))

Telepsychiatry/tele-mental health

- Backhaus A, Agha Z, Maglione ML et al. Videoconferencing psychotherapy: A systematic review. *Psychol. Serv.* 9(2): 111-131, 2012 ([htm](#))
- Barretto A, Wacker DP, Harding J, Lee J, Berg WK. Using telemedicine to conduct behavioral assessments. *J. Appl. Behav. Anal.* 39(3):333-340, 2006 ([htm](#))
- Bashshur RL, Shannon GW, Bashshur N, Yellowlees PM. The empirical evidence for telemedicine interventions in mental disorders. *Telemed. eHealth* 21(5): 321-354, 2015 ([htm](#))
- Batastini AB, King CM, Morgan RD, McDaniel B. Telepsychological services with criminal justice and substance abuse clients: a systematic review and meta-analysis. *Psychol. Serv.* 13(1):20-30, 2016 ([htm](#))
- Bee PE, Bower P, Lovell K, Gilbody S, Richards D, Gask L, Roach P. Psychotherapy mediated by remote communication technologies: a meta-analytic review. *BMC Psychiatry* 8:60, 2008. ([htm](#))
- 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](#))
- Canadian Agency for Drugs and Technologies in Health. Telehealth services for the treatment of psychiatric issues: Clinical effectiveness, safety, and guidelines. CADTH Rapid Response Report, Jan. 2015 ([htm](#))
- Canadian Agency for Drugs and Technologies in Health. Telehealth assessment of patients being retained for emergent mental health reasons: clinical-effectiveness and guidelines. CADTH Rapid Response Reports, March 2016 ([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](#))
- Chakrabarti S. Usefulness of telepsychiatry: A critical evaluation of videoconferencing-based approaches. *World J. Psychiatry* 5(3):286-304, 2015 ([htm](#))
- Chebli JL, Blaszczynski A, Gainsbury SM. Internet-based interventions for addictive behaviours: a systematic review. *J. Gambling Studies* 32(4):1279-1304, 2016 ([htm](#))
- Choi Yoo SJ, Nyman JA, Cheville AL, Kroenke K. Cost effectiveness of telecare management for pain and depression in patients with cancer: results from a randomized trial. *Gen. Hosp. Psychiatry* 36(6):599-606, 2014 ([htm](#))
- Comer JS, Myers K. Future directions in the use of telemental health to improve the accessibility and quality of children's mental health services. *J. Child Adolesc. Psychopharmacol.* 26(3):296-300, 2016 ([htm](#))
- Crum KI, Comer JS. Using synchronous videoconferencing to deliver family-based mental healthcare. *J. Child Adolesc. Psychopharmacol.* 26(3):229-234, 2016 ([htm](#))
- Davies SF. A hospital driven telepsychiatry initiative to improve patient care and reduce costs. *North Carolina Med. J.* 73(3):228-230, 2012 ([htm](#))
- Deslich S, Stec B, Tomblin S, Coustasse A. Telepsychiatry in the 21st century: Transforming healthcare with technology. *Perspect. Health Inf. Manag.* 10(Summer): 1-17, 2013 ([htm](#))
- Deslich SA, Thistlethwaite T, Coustasse A. Telepsychiatry in correctional facilities: using technology to improve access and decrease costs of mental health care in underserved populations. *Permanente J.* 17(3):80-86, 2013 ([htm](#))
- Diamond JM, Bloch RM. Telepsychiatry assessments of child or adolescent behavior disorders: a review of evidence and issues. *Telemed. eHealth* 16(6):712-716, 2010 ([pdf](#))
- Drago A, Winding TN, Antypa N. Videoconferencing in psychiatry, a meta-analysis of assessment and treatment. *European Psychiatry.* 36: 29-37, 2016 ([PubMed](#))

- Egede LE, Gebregziabher M, Zhao Y, et al. Impact of mental health visits on healthcare cost in patients with diabetes and comorbid mental health disorders. *PLoS One* 9(8): e103804, 2014 ([htm](#))
- Ellington E, Repique RJ. Telemental health adoption can change psychiatric-mental health nursing practice. *J. Amer. Psychiatr. Nurses Assoc.* 19(4):222-224, 2013 ([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](#))
- Fortney JC, Maciejewski ML, Tripathi SP, Deen TL, Pyne JM. A budget impact analysis of telemedicine-based collaborative care for depression. *Med. Care* 49(9):872-880, 2011 ([PubMed](#))
- Fortney JC, Pyne JM, Kimbrell TA, et al. Telemedicine-based collaborative care for posttraumatic stress disorder: a randomized clinical trial. *JAMA Psychiatry* 72(1):58-67, 2015 ([htm](#))
- Fortney JC, Pyne JM, Mouden SB. Practice based versus telemedicine based collaborative care for depression in rural Federally Qualified Health Centers: a pragmatic randomized comparative effectiveness trial. *Amer. J. Psychiatr.* 170(4):1-22, 2013 ([htm](#))
- Frueh BC, Monnier J, Elhai JD, Grubaugh AL, Knapp RG. Telepsychiatry treatment outcome research methodology: efficacy versus effectiveness. *Telemed. eHealth* 10(4):455-458, 2004 ([htm](#))
- Grubbs KM, Fortney JC, Dean T, Williams JS, Godleski L. A comparison of mental health diagnoses treated via interactive video and face to face in the Veterans Healthcare Administration. *Telemed. eHealth* 21(7):564-566, 2015 ([PubMed](#))
- Hailey D, Roine R, Ohinmaa A. The effectiveness of telemental health applications: a review. *Can. J. Psychiatry* 53(11):769-778, 2008 ([pdf](#))
- Hilt RJ, Barclay RP, Bush J, Stout B, Anderson N, Wignall JR. A statewide child telepsychiatry consult system yields desired health system changes and savings. *Telemed. eHealth* 21(7):533-537, 2015 ([pdf](#))
- Hilty DM, Ferrer DC, Parish MB, Johnston B, Callahan EJ, Yellowlees PM. The effectiveness of telemental health: a 2013 review. *Telemed. eHealth* 19(6):444-454, 2013. ([htm](#))
- Hubley S, Lynch SB, Schneck C, Thomas M, Shore J. Review of key telepsychiatry outcomes. *World J. Psychiatry* 6(2):269-282, 2016 ([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](#))
- Hyler SE, Gangure DP, Batchelder ST. Can telepsychiatry replace in-person psychiatric assessments? A review and meta-analysis of comparison studies. *CNS Spectr.* 10(5):403-413, 2005 ([htm](#))
- Ingersoll B, Berger NI. Parent engagement with a telehealth-based parent-mediated intervention program for children with autism spectrum disorders: Predictors of program use and parent outcomes. *J. Med. Internet Res.* 17(10):e227, 2015 ([htm](#))
- Kasckow J, Felmet K, Appelt C, Thompson R, Rotondi A, Haas G. Telepsychiatry in the assessment and treatment of schizophrenia. *Clin. Schizophr. Related Psychoses* 8(1):21-27A, 2014 ([htm](#))
- Linde K, Sigterman K, Kriston L, Rücker G, Jamil S, Meissner K, Schneider A. Effectiveness of psychological treatments for depressive disorders in primary care: systematic review and meta-analysis. *Annals Fam. Med.* 13(1):56-68, 2015 ([htm](#))
- 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](#))
- Lindhiem O, Bennett CB, Rosen D, Silk J. Mobile technology boosts the effectiveness of psychotherapy and behavioral interventions: a meta-analysis. *Behav. Modif.* 39(6):785-804, 2015 ([htm](#))
- Manguno-Mire GM, Thompson JW JR, Shore JH, et al. The use of telemedicine to evaluate competency to stand trial: a preliminary randomized controlled study. *J. Amer. Acad. Psychiatry Law* 35:481-489, 2007 ([htm](#))
- Morland LA, Raab M, Mackintosh MA, Rosen CS, Dismuke CE, Greene CJ, Frueh BC. Telemedicine: a cost-reducing means of delivering psychotherapy to rural combat veterans with PTSD. *Telemed. eHealth* 19(10):754-759, 2013 ([htm](#))
- Munro Cullum C, Hynan LS, Grosch M, Parikh M, Weiner MF. Teleneuropsychology: evidence for video teleconference-based neuropsychological assessment. *J. Int. Neuropsychol. Soc.* 20(10):1028-1033, 2014 ([htm](#))

- Myers K, Vander Stoep A, Zhou C, McCarty CA, Katon W. Effectiveness of a telehealth service delivery model for treating attention-deficit/hyperactivity disorder: a community-based randomized controlled trial. *J. Amer. Acad. Child Adolesc. Psychiatry* 54(4):263-274, 2015 ([htm](#))
- Myers KM, Valentine JM, Melzer SM. Feasibility, acceptability, and sustainability of telepsychiatry for children and adolescents. *Psychiatr. Serv.* 58(11):1493-1496, 2007 ([htm](#))
- Neufeld J, Case R. Walk-in telemental health clinics improve access and efficiency: a 2-year follow-up analysis. *Telemed. eHealth* 19(12):938-941, 2013 ([htm](#))
- Osenbach JE, O'Brien KM, Mishkind M, Smolenski DJ. Synchronous telehealth technologies in psychotherapy for depression: a meta-analysis. *Depress. Anxiety* 30(11):1058-1067, 2013([htm](#))
- Pande RL, Morris M, Peters A, Spettell CM, Feifer R, Gillis W. Leveraging remote behavioral health interventions to improve medical outcomes and reduce costs. *Amer. J. Managed Care* 21(1):e141-e151 2015 ([htm](#))
- Perle JG, Nierenberg B. How psychological telehealth can alleviate society's mental health burden: a literature review. *J. Technol. Human Serv.* 31(1): 22-41, 2013 [pdf](#)
- Pyne JM, Fortney JC, Tripathi SP, et al. Cost-effectiveness analysis of a rural telemedicine collaborative care intervention for depression. *Arch. Gen. Psychiatry* 67(8):812-821, 2010. ([htm](#))
- Saeed SA, Diamond J, Bloch RM. Use of telepsychiatry to improve care for people with mental illness in rural North Carolina. *North Carolina Med. J.* 72(3):219-222, 2011 ([htm](#))
- Salisbury C, O'Cathain A, Edwards L, et al. Effectiveness of an integrated telehealth service for patients with depression: a pragmatic randomised controlled trial of a complex intervention. *Lancet Psychiatry* 6: 515-525, 2016 ([htm](#))
- Salmoiraghi A, Hussain S. A systematic review of the use of telepsychiatry in acute settings. *J. Psychiatr. Pract.* 21(5):389-393, 2015 ([PubMed](#))
- Sharp IR, Kobak KA, Osman DA. The use of videoconferencing with patients with psychosis: a review of the literature. *Ann. Gen. Psychiatry* 10(1):14, 2011 ([htm](#))
- Shore J. The evolution and history of telepsychiatry and its impact on psychiatric care: Current implications for psychiatrists and psychiatric organizations. *Int. Rev. Psychiatry* 27(6):469-475, 2015 ([pdf](#))
- Shore JH, Brooks E, Savin DM, Manson SM, Libby AM. An economic evaluation of telehealth data collection with rural populations. *Psychiatr. Serv.* 58 (6):830-835, 2007. ([htm](#))
- Shore JH, Mishkind MC, Bernard J, et al. A lexicon of assessment and outcome measures for telemental health. *Telemed. eHealth* 20:282–292, 2014 ([htm](#))
- Shore JH. Telepsychiatry: videoconferencing in the delivery of psychiatric care. *Amer. J. Psychiatry* 170(3):256-262, 2013 ([htm](#))
- Sigmon SC. Access to treatment for opioid dependence in rural America: challenges and future directions. *JAMA Psychiatry* 71(4):359-360, 2014 ([htm](#))
- Simpson SG, Reid CL. Therapeutic alliance in videoconferencing psychotherapy: a review. *Aust. J. Rural Health* 22(6):280-299, 2014 ([htm](#))
- Sloan DM, Gallagher MW, Feinstein BA, Lee DJ, Pruneau GM. Efficacy of telehealth treatments for posttraumatic stress-related symptoms: a meta-analysis. *Cogn. Behav. Ther.* 40(2):111-125, 2011 ([htm](#))
- Slone NC, Reese RJ, McClellan MJ. Telepsychology outcome research with children and adolescents: a review of the literature. *Psychol. Serv.* 9(3):272-292, 2012 ([htm](#))
- Stephan S, Lever N, Bernstein L, Edwards S, Pruitt D. Telemental health in schools. *J. Child Adolesc. Psychopharmacol.* 26(3):266-272, 2016 ([htm](#))
- Stubbings DR, Rees CS, Roberts LD, Kane RT. Comparing in-person to videoconference-based cognitive behavioral therapy for mood and anxiety disorders: randomized controlled trial. *J. Med. Internet Res.* 15(11): e258, 2013 ([htm](#))
- Sucala M, Schnur JB, Constantino MJ, Miller SJ, Brackman EH, Montgomery GH. The therapeutic relationship in e-therapy for mental health: a systematic review. *J. Med. Internet Res.* 14(4):e110, 2012 ([htm](#))
- Van Allen J, Davis AM, Lassen S. The use of telemedicine in pediatric psychology: research review and current applications. *Child Adolesc. Psychiatr. Clin. North Amer.* 20(1): 55–66, 2011 ([htm](#))
- Wade VA, Karnon J, Elshaug AG, Hiller JE. A systematic review of economic analyses of telehealth services using real time video communication. *BMC Health Serv. Res.* 10: 233, 2010 ([htm](#))

Waugh M, Voyles D, Thomas MR. Telepsychiatry: Benefits and costs in a changing health-care environment. *Int. Rev. Psychiatry* 27(6):558-568, 2015 ([PubMed](#))

Tele-retinal screening

- Aoki N, Dunn K, Fukui T, Beck JR, Schull WJ, Li HK. Cost-effectiveness analysis of telemedicine to evaluate diabetic retinopathy in a prison population. *Diabetes Care* 27: 1095-1101, 2004 ([htm](#))
- Bahaadinbeigy K, Yogesan K. Advances in teleophthalmology: Summarising published papers on teleophthalmology projects. Chapter 12 in: G. Grasczew, T.A. Roelofs, (eds.), *Advances in Telemedicine: Applications in Various Medical Disciplines and Geographical Regions*, Intech, 2011 ([htm](#))
- Coronado AC, Zaric GS, Martin J, et al. Diabetic retinopathy screening with pharmacy-based teleophthalmology in a semiurban setting: a cost-effectiveness analysis. *CMAJ Open* 4(1):E95-E102, 2016 ([htm](#))
- Daskivich LP, Vasquez C, Martinez C Jr, Tseng CH, Mangione CM. Implementation and evaluation of a large-scale teleretinal diabetic retinopathy screening program in the Los Angeles County Department of Health Services. *JAMA Intern. Med.* [epub ahead of print], March 2017 ([htm](#))
- Garg S, Jani PD, Kshirsagar AV, et al. Telemedicine and retinal imaging for improving diabetic retinopathy evaluation. *Arch. Intern. Med.* 172(21):1677-1680, 2012 ([htm](#))
- Jackson KM, Scott KE, Graff Zivin J, Bateman DA, Flynn JT, Keenan JD, Chiang MF. Cost-utility analysis of telemedicine and ophthalmoscopy for retinopathy of prematurity management. *Arch. Ophthalmol.* 126(4):493-499, 2008 ([htm](#))
- Jani PD, Forbes L, Choudhury A, et al. Evaluation of diabetic retinal screening and factors for ophthalmology referral in a telemedicine network. *JAMA Ophthalmol.* 135(7):706-714, 2017 ([PubMed](#))
- Li Z, Wu C, Olayiwola JN, Hilaire DS, Huang JJ. Telemedicine-based digital retinal imaging vs standard ophthalmologic evaluation for the assessment of diabetic retinopathy. *Conn. Med.* 76(2):85-90, 2012. ([pdf](#))
- Mansberger SL, Gleitsmann K, Gardiner S, et al. Comparing the effectiveness of telemedicine and traditional surveillance in providing diabetic retinopathy screening examinations: a randomized controlled trial. *Telemed. eHealth* 19(12):942-948, 2013 ([PubMed](#))
- Mansberger SL, Sheppler C, Barker G, Gardiner SK, Demirel S, Wooten K, Becker TM. Long-term comparative effectiveness of telemedicine in providing diabetic retinopathy screening examinations: a randomized clinical trial. *JAMA Ophthalmol.* 133(5):518-525, 2015 ([htm](#))
- Newman M. Fiscal impact of AB 175: Analysis of the cost effectiveness of store and forward teleophthalmology. California Healthcare Foundation, 2009 ([htm](#))
- Ogunyemi O, Teklehaimanot S, Patty L, Moran E, George S. Evaluating predictive modeling's potential to improve teleretinal screening participation in urban safety net clinics. *Stud. Health Technol. Inform.* 192:162-165, 2013 ([htm](#))
- Olayiwola JN, Sobieraj DM, Kulowski K, St Hilaire D, Huang JJ. Improving diabetic retinopathy screening through a statewide telemedicine program at a large federally qualified health center. *J. Health Care Poor Underserved* 22(3):804-816, 2011 ([pdf](#))
- Pasquel FJ, Hendrick AM, Ryan M, et al. Cost-effectiveness of different diabetic retinopathy screening modalities. *J. Diabetes Sci. Technol.* 10(2):301-307, 2015 ([htm](#))
- Rein DB, Wittenborn JS, Zhang X, et al. The cost-effectiveness of three screening alternatives for people with diabetes with no or early diabetic retinopathy. *Health Serv. Res.* 46(5):1534-1561, 2011 ([htm](#))
- chardson DR, Fry RL, Krasnow M. Cost-savings analysis of telemedicine use for ophthalmic screening in a rural Appalachian health clinic. *West Virg. Med. J.* 109(4):52-55, 2013. ([pdf](#))
- Shi L, Wu H, Dong J, Jiang K, Lu X, Shi J. Telemedicine for detecting diabetic retinopathy: a systematic review and meta-analysis. *Brit. J. Ophthalmol.* 99(2): [epub before print], 2015 ([htm](#))
- Silva PS, Cavallerano JD, Tolls D, et al. Potential efficiency benefits of nonmydriatic ultrawide field retinal imaging in an ocular telehealth diabetic retinopathy program. *Diabetes Care* 37(1):50-55, 2014 ([htm](#))
- Sreelatha OK, Ramesh SV. Teleophthalmology: improving patient outcomes? *Clin. Ophthalmol.* 10:285-295, 2016 ([htm](#))
- Taylor CR, Merin LM, Salunga AM, et al. Improving diabetic retinopathy screening ratios using telemedicine-based digital retinal imaging technology: the Vine Hill study. *Diabetes Care* 30(3):574-578, 2007 ([htm](#))

Whited JD, Datta SK, Aiello LM, et al. A modeled economic analysis of a digital tele-ophthalmology system as used by three federal health care agencies for detecting proliferative diabetic retinopathy. *Telemed. eHealth* 11(6):641-651, 2005 ([PubMed](#))

Other specialty telemedicine

- 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](#))
- Baker LC, Johnson SJ, Macaulay D, Birnbaum H. Integrated telehealth and care management program for Medicare beneficiaries with chronic disease linked to savings. *Health Affairs* 30(9):1689-1697, 2011 ([htm](#))
- Bell DS, Straus SG, Wu S, et al. Use of an electronic referral system to improve the outpatient primary care—specialty interface: Final report. RAND Corp. for Agency for Healthcare Research and Quality, 2012 ([htm](#))
- Bendixen 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](#))
- 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](#))
- Bronstein JM, Ounpraseuth S, Jonkman J, et al. Use of specialty OB consults during high-risk pregnancies in a Medicaid-covered population: initial impact of the Arkansas ANGELS intervention. *Med. Care Res. Rev.* 69(6):699-720, 2012 ([htm](#))
- Buchanan AH, Datta SK, Skinner CS, et al. Randomized trial of telegenetics vs. in-person cancer genetic counseling: cost, patient satisfaction and attendance. *J. Genet. Couns.* 24(6):961-970, 2015 ([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](#))
- Canadian Agency for Drugs and Technologies in Health. Telehealth for speech and language pathology: a review of clinical effectiveness, cost-effectiveness, and guidelines. CADTH Rapid Response Reports, April, 2015 ([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. Telepathology: A review of the clinical effectiveness, cost-effectiveness, and guidelines. Health Technology Assessment, 2010 ([pdf](#))
- 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](#))
- Canadian Agency for Drugs and Technologies in Health. Telehealth delivery of nutritional counselling for the management of chronic diseases that require dietary changes: clinical effectiveness and evidence-based guidelines. CADTH Rapid Response Reports, June 2015 ([htm](#))
- Choi Yoo SJ, Nyman JA, Cheville AL, Kroenke K. Cost effectiveness of telecare management for pain and depression in patients with cancer: results from a randomized trial. *Gen. Hosp. Psychiatry* 36(6):599-606, 2014 ([htm](#))
- Cole BH. eConsult – measurement for impact. Blue Shield of California Foundation, 2014 ([pdf](#))
- Coma-Del-Corral MJ, Alonso-Álvarez ML, Allende M, et al. Reliability of telemedicine in the diagnosis and treatment of sleep apnea syndrome. *Telemed. eHealth* 19(1):7-12, 2013 ([htm](#))
- Daniel SJ, Wu L, Kumar S. Teledentistry: a systematic review of clinical outcomes, utilization and costs. *J. Dent. Hyg.* 87(6):345-352, 2013 ([htm](#))
- 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](#))
- Grabowski DC, O'Malley AJ. Use of telemedicine can reduce hospitalizations of nursing home residents and generate savings for Medicare. *Health Affairs* 33(2):244-250, 2014 ([pdf](#))
- Grossman DA, Grindlay K, Buchacker T, et al. Changes in service delivery patterns after introduction of telemedicine provision of medical abortion in Iowa. *Amer. J. Pub. Health* 103(1): 73-78, 2013. ([htm](#))

- Guédon-Moreau L, Lacroix D, Sadoul N, Clémenty J, Kouakam C, Hermida JS, Aliot E, Kacet S; ECOST trial Investigators. Costs of remote monitoring vs. ambulatory follow-ups of implanted cardioverter defibrillators in the randomized ECOST study. *Europace* 16(8):1181-1188, 2014 ([htm](#))
- 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](#))
- Jackson KM, Scott KE, Graff Zivin J, et al. Cost-utility analysis of telemedicine and ophthalmoscopy for retinopathy of prematurity management. *Arch. Ophthalmol.* 126(4):493-499, 2008 ([htm](#))
- Kairy D, Lehoux P, Vincent C, Visintin M. A systematic review of clinical outcomes, clinical process, healthcare utilization and costs associated with telerehabilitation. *Disabil. Rehabil.* 31(6): 427-447, 2009 ([htm](#))
- Kidholm K, Rasmussen MK, Andreasen JJ, Hansen J, Nielsen G, Spindler H, Dinesen B. Cost-utility analysis of a cardiac telerehabilitation program: the teledialog project. *Telemed. eHealth* 22(7): 1-11, 2015 ([htm](#))
- Khan F, Amatya B, Kesselring J, Galea MP. Telerehabilitation for persons with multiple sclerosis. A Cochrane review. *Eur. J. Phys. Rehabil. Med.* 51(3):311-325, 2015 ([htm](#))
- Kroenke K, Theobald D, Wu J, Norton K, Morrison G, Carpenter J, Tu W. Effect of telecare management on pain and depression in patients with cancer: a randomized trial. *JAMA* 304(2):163-171, 2010 ([htm](#))
- Kroenke K, Krebs EE, Wu J, Yu Z, Chumbler NR, Bair MJ. Telecare collaborative management of chronic pain in primary care: a randomized clinical trial. *JAMA* 312(3):240-248, 2014 ([htm](#))
- Levin K, Madsen JR, Petersen I, Wanscher CE, Hangaard J. Telemedicine diabetes consultations are cost-effective, and effects on essential diabetes treatment parameters are similar to conventional treatment: 7-year results from the Svendborg Telemedicine Diabetes Project. *J. Diabetes Sci. Technol.* 7(3):587-595, 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](#))
- Lloréns R, Noé E, Colomer C, Alcañiz M. Effectiveness, usability, and cost-benefit of a virtual reality-based telerehabilitation program for balance recovery after stroke: A randomized controlled trial. *Arch. Phys. Med. Rehab.* 96(3):418-425, 2015 ([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.* Oct 13 [epub ahead of print] 2015 ([htm](#))
- Lowery C, Ott RE. Statewide telehealth program enhances access to care, improves outcomes for high-risk pregnancies in rural areas. AHRQ Health Care Innovations Exchange, Health Care Delivery Innovation Profile, 2013 ([htm](#))
- 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](#))
- McConnochie KM. Remote visits by pediatricians for sick children at inner-city and other child care centers/schools reduce absences and emergency department use—University of Rochester Medical Center. AHRQ Innovations Exchange Service Delivery Innovation Profile, 2014 ([htm](#))
- Müller KI, Alstadhaug KB, Bekkelund SI. Acceptability, feasibility, and cost of telemedicine for nonacute headaches: a randomized study comparing video and traditional consultations. *J. Med. Internet Res.* 18(5):e140, 2016 ([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](#))
- Nguyen KH, Smith AC, Armfield NR, Bensink M, Scuffham PA. Cost-effectiveness analysis of a mobile ear screening and surveillance service versus an outreach screening, surveillance and surgical service for indigenous children in Australia. *PLoS One* 10(9):e0138369, 2015 ([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](#))

- Pastora-Bernal JM, Martín-Valero R, Barón-López FJ, Estebanez-Pérez MJ. Evidence of benefit of telerehabilitation after orthopedic surgery: a systematic review. *J. Med. Internet Res.* 19(4):e142, 2017 ([htm](#))
- Richter KP, Shireman TI, Ellerbeck EF, et al. Comparative and cost effectiveness of telemedicine versus telephone counseling for smoking cessation. *J. Med. Internet Res.* 17(5):e113, 2015 ([htm](#))
- Richardson DR, Fry RL, Krasnow M. Cost-savings analysis of telemedicine use for ophthalmic screening in a rural Appalachian health clinic. *West Virginia Med. J.* 109(4):52-55, 2013 ([pdf](#))
- Ryan D, Price D, Musgrave SD, et al. Clinical and cost effectiveness of mobile phone supported self monitoring of asthma: multicentre randomised controlled trial. *Brit. Med. J.* 344: e1756, 2012 ([htm](#))
- Theodore BR, Whittington J, Towle C, et al. Transaction cost analysis of in-clinic versus telehealth consultations for chronic pain: preliminary evidence for rapid and affordable access to interdisciplinary collaborative consultation. *Pain Med.* 16(6):1045-1056, 2015 ([htm](#))
- 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](#))
- Towey MP. Speech therapy telepractice for vocal cord dysfunction (VCD): MaineCare (Medicaid) cost savings. *Int. J. Telerehabil.* 4(1): Spring 2012 ([pdf](#))
- Xu CQ, Smith AC, Scuffham PA, Wootton R. A cost minimisation analysis of a telepaediatric otolaryngology service. *BMC Health Serv. Res.* 8(1):30, 2008 ([htm](#))
- Versleijen M, Martin-Khan MG, Whitty JA, Smith AC, Gray LC. A telegeriatric service in a small rural hospital: A case study and cost analysis. *J. Telemed. Telecare* 21(8):459-468, 2015 ([htm](#))
- Ward EC, Burns CL, Theodoros DG, Russell TG. Evaluation of a clinical service model for dysphagia assessment via telerehabilitation. *Int. J. Telemed. Appl.* 2013:918526, 2013 ([htm](#))
- Worthen-Chaudhari L. Effectiveness, usability, and cost-benefit of a virtual reality-based telerehabilitation program for balance recovery after stroke: A randomized controlled trial. *Arch. Phys. Med. Rehab.* 96(8), 1544, 2015 ([htm](#))

This webliography was made possible by grant number G22RH30352 from the Office for the Advancement of Telehealth, Health Resources and Services Administration, DHHS