Viewpoint

Patient and Family Involvement: A Discussion of Co-Led Redesign of Healthcare Services

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Abstract

The involvement of patients and their families in the redesign of healthcare services is an important option in providing a service that addresses the patients' needs and improves health outcomes. However, it is a resource-intensive approach, and it is currently not clear when it should be used, and what should be the reasoning behind this decision. Some health systems of international standing have created a patient engagement program as a selling point. This paper discusses how co-led redesign can be beneficial in improving health service and more effectively engaging patients. Potential barriers for patient involvement are discussed. Patient involvement can be integrated into the health system at three main levels of engagement: direct care, organizational design and governance, and policy-making. The aim of this paper is to describe how co-led redesign is compatible with different levels of patient involvement and to address the challenges in delivering a co-led redesign in healthcare. Co-led redesign not only involves the collection of quantitative data for assessing the current systems but also the collection of qualitative data through patient, family, and staff interviews to determine the barriers to patient satisfaction. Co-led redesign is a resource-rich process that requires expertise in data collection and a clinical group that is devoted to implementing recommended changes. Currently, a number of countries have utilized co-led redesign for many different types of healthcare services. Resource availability and cost, process time, and lack of outcome measures are three major limiting factors.

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KEYWORDS

co-led redesign; health care; patient and family engagement; patient involvement; rural health

Introduction

The involvement of patients and their families in the planning and development of health care services has been shown to improve the health and quality of life of patients [1]. Patient and family engagement has been defined as "a relationship between health care providers working together to promote and support active patient and public involvement in health care and to strengthen their influence on health care decisions at an individual and collective level" [2]. Patient and family involvement includes the feedback and experiences from patients and their family members and caregivers. They have experience,

expertise, insights and valuable perspectives that are useful in bringing about changes in health care regardless of whether their own experience was positive or negative. Patient engagement, including partnerships, transparency, and information sharing between providers and patients, can be applied to decision making at an organizational level. System modification is required to ensure that patients and families have a voice in planning organisational strategy and in designing changes and improvements in patient care [3].

A number of studies have demonstrated the importance of involving patients and their families in health care redesign initiatives through patient satisfaction surveys or interviews and



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mapping of patient journeys. Patients in a study of stroke services in the United Kingdom reported high levels of satisfaction with inpatient care [4]. A substantial proportion of patients and their families also reported dissatisfaction with the lack of involvement in decisions [5]. A different patient journey study in the UK [6] showed that four main themes emerged from questioning patients and their families about their in-hospital experiences; (1) information provision, (2) staff attitudes, (3) availability of care, and (4) considering the whole person in context. This paper defines patient involvement in health care and demonstrates the current state of patient and family engagement in the redesign of clinical management for health care services. This paper also highlights the barriers to achieving adequate patient and family engagement in a health care service redesign process.

Patient Involvement

In 1988, the term patient-centered care was used to call attention to the need for clinical staff and health care systems to shift their focus away from diseases and back to the patient and family [7]. This movement was designed to stress the importance of understanding the patient experience and delivering more effectively on patient needs, including decisions about their care and treatment, diagnostic tests, screening, and medications. This term still refers to a focus on patients, however, it does not necessarily reflect that patients should also be involved in their care or at what level. Patient and family engagement or involvement is now a main driver for improving quality in health care. This engagement can range from consultation to partnership and from a limited decision-making role up to a shared decision-making role. Patient and family engagement has many forms and can occur for a number of reasons. Three levels of engagement for patient involvement, identified by Carman and colleagues [8], are direct care, organizational design and governance, and policy making. This framework is the basis for defining patient and family involvement and co-led redesign in this paper.

Direct Care

Dieppe and colleagues [9] state that the clinical encounter, the point at which health care professional and patient interact, is "at the heart of health care." Patient involvement, from a direct care viewpoint, involves including the patient and their family in the decisions that are made about their diagnosis and treatment. It is defined as integrating the patients' values, experiences, and perspectives in relation to prevention, diagnosis, and treatment [9]. The involvement of patients and their family members in improving the quality of health care has been considered to be a democratic or ethical requirement as patients indirectly pay for services through taxation (in some countries, including Australia) and therefore should have a right to influence how they are managed [10,11]. In the United States, however, employers are often responsible for paying health insurance premiums for their employees' hospital treatment, often with a copayment from the employee, as per the market-based health insurance system. In this instance, patient involvement might seem more of a priority as there is direct payment for the services utilized. Other ethical considerations, as described by Elwyn and colleagues [12], include individual self-determination and the idea that clinicians need to support this. Self-determination, in the context of shared decision-making and patient and family involvement in health care, pertains to an intrinsic human tendency to preserve one's own well-being [13], which is something that not all patients or families exhibit. At the direct level, patient and family involvement could mean simply providing patients and their family members with information or involving them actively in setting goals or making decisions about their care.

Information provision was a major theme identified by Morris and colleagues [6] during a patient journey study. Providing patients, and their families and caregivers, with accurate and suitable information is an important component of direct care. Actively involving patients and their families by ensuring they receive and understand information about their condition including treatment has been shown to improve quality of life significantly when compared with patients who did not actively receive this information [14-17]. The Royal Children's Hospital (Melbourne, Australia) developed a policy that defines patient and family-centered care, including sharing of information, involving the patient and family in decision making, and sharing the provision of care. This direct style of patient involvement is certainly family- and patient-centered but the development of clinical procedures, pathways, and mode of service delivery are still decided by clinicians, with little patient or family input. Currently, many hospitals have policies and procedures that encourage patient and family involvement at the direct level of engagement, but not necessarily in the redesign of the health care services they utilize.

It has been suggested [18] that the most important attribute of patient-centred care is the active engagement of patients when health care decisions must be made. Graffigna and colleagues [19] developed the Patient Health Engagement model which provides an overview of patient engagement. It consists of four stages. Each level addresses a significant stage in the patient journey where the patient becomes a "co-constructer of their health and capable of self-management." Engaging patients in this way, to allow a sense of control and understanding of their condition, has been shown to have a positive effect on patient satisfaction. It also reduces depression [20]. However, a study by Sommers and colleagues [21] found that some patients would prefer that their health care providers just tell them what to do rather than engage in shared decision making. This suggests that some patients may be less likely to benefit from more collaborative levels of participation. This external aspect of control [22] is a conundrum for proponents of patient involvement, as lower socioeconomic status (SES) patients tend to have less internal control over health. Therefore, while higher SES patients are more likely to take advantage of patient involvement systems, the need is for the lower SES patients to be more involved, and take more control of their health.

Organizational Design and Governance

Patient involvement in organisational design and governance provides an opportunity for patients to partner with health care



providers in planning, delivering and evaluating health care. This encompasses involvement in the design of the health care facility, through to assisting with hiring and training staff. A review of patient and public involvement in health care in the UK was conducted by Mockford and colleagues. They divided the impact of this involvement into service planning and development, information development and dissemination, and changing attitudes of service providers and users [23].

Other forms of patient and family engagement for delivery of improved organizational goals include participation on consumer committees, patient satisfaction surveys, participating in focus groups, and patient and caregiver representation on planning and development boards/panels. Patient involvement at an organizational level also includes participation in quality improvement opportunities. Feedback, including complaints and compliments, can be utilized by management teams to improve the future design of health care services and make changes in governance and policy. Reid Ponte and Peterson [3] suggest that the principles of partnership, transparency, and information sharing must guide the interactions between providers and patients and their families at the bedside, and then be applied to the organizational level.

Policy Making

Patients, or members of the public, can collaborate with representatives from health care facilities to make decisions about how to shape health care policies and set priorities for the use of resources. Described in the UK as a "remarkable experiment in democratic practice" [24] is a form of patient engagement known as citizen juries. A citizen jury consists of a defined number of carefully selected ordinary citizens who address questions about policy and planning in health care in a primarily advisory role. They are provided information from "witnesses" in their quest to reach consensus around specific health care issues. Although the benefits of a citizen jury include information, time, and independence [25], this process does not provide a real-life account of the experience of the current health care system.

Co-Led Redesign

Co-led redesign can be defined as "the development and implementation of health care services based on both a clinical and patient perspective and experience or experience-based design." It involves clinical engagement, patient and family engagement, shared decision making and a thorough analysis of the current systems and expected benefits of new, improved systems. Co-led redesign occurs at all three levels of engagement in differing capacities. In the patient journey clinical redesign process [26], a co-led redesign process, the direct engagement occurs via a systems analysis, performed from the perspective and experience of the patient, and their families. It also includes the front line health care staff who are critical to improving the clinical practice. Organizational design and governance is assessed through a quantitative analysis of data, linked to direct engagement information to form new policy and practice. This evidence-based approach utilizes quantitative and qualitative data to inform the decision makers, at all levels, how to allocate

resources and structure health care service provision. Patient involvement in health services redesign is based on the premise that involving patients leads to more accessible and acceptable services and improves the health and quality of life of patients [1]. Mixed method research (combining quantitative and qualitative analysis) can capitalise on the strengths of each approach. This includes corroborating findings, generating more complete data, and using the results from one method to enhance the insights from the other. In the UK, government policy states that "involving patients and the public isn't always easy and can take time but, done well, has been shown to be highly effective in developing services that better meet patient needs and lead to better health outcomes" [27]. There is evidence to suggest that patient engagement in the redesign of health care services is linked to fewer adverse events, better patient self-management, fewer diagnostic tests, decreased use of health care services, and shorter lengths of stay in hospitals [28]. Experience-based design is a user-focused design process with the goal of making user experience accessible to allow design of a better patient and staff experience [29]. Co-led redesign places the experience goals of patients and their families and staff at the centre of the design process. It creates a partnership with the patients, families and staff, and promotes shared leadership and decision making.

Use of Patient Engagement within Redesign and Co-Led Redesign Models

Instances of direct engagement, organisational design and governance changes and policy making can be shown through varying types of patient involvement initiatives locally and globally. A national survey of hospitals in the United States [28] reports that of the 1457 hospitals that responded, 7% include patients and family members in the education and content development when training clinical staff, 21% had a patient and family advisory council that had met within the previous 12 months and 23% had patient and family advisory councils [28]. This type of patient and/or family involvement is not necessarily for health care redesign purposes, although it does provide an opportunity for patients and families to give input regarding various hospital activities. This suggests that while patient and family engagement is occurring, the level of participation is inadequate for a patient journey co-led redesign process, which requires more in depth, personal patient and family involvement. Although this information is valuable and the economic impact of utilizing patients and their families in the redesign of health care services has been shown to be a limiting factor, particularly when interviewing individual patients and families is chosen research method [23].

Co-led redesign incorporates the patient and family feedback and suggestions on how to improve current services based on previous experience in a particular health service in conjunction with other research methods. The qualitative method of interviewing patients and their families allows them to identify gaps and strengths of the system and influence the redesign of health care services. Patient and family feedback is utilized to directly influence changes to be made to existing services or to the development of new services. A systematic review of



involving patients in planning and development of health care services [30] reported that patients who participated in these initiatives welcomed the opportunity and that their self-esteem improved as a result of their contribution. This review suggests the most frequently reported effects of involving patients in developing or improving health services include making services more accessible through simplifying appointment procedures, extending opening hours, improving transport to treatment units, and improving access for people with disabilities. Patient involvement may take place via face-to-face meetings, patient representation in planning meetings, group interviews, written surveys and consumer boards [30].

Collection of qualitative data in co-led redesign, through direct engagement methods, patient interviews, or other interactive forums, is time consuming and resource rich and its subsequent analysis is much the same. Qualitative methods generate a substantial amount of data, it is suggested that just 20 one-hour interviews can generate up to 400 single spaced pages of transcripts [31]. Thematic analysis has been shown to be effective in identifying gaps in service, areas for overall improvement and barriers to effective service delivery despite the timely analysis process [32]. Identifying themes and patterns from the experiences of patients and their families ensures a comprehensive view of the overall service but involves a number of time consuming components. Themes are defined as units derived from patterns such as conversation topics, vocabulary, recurring activities, meanings, feelings, or folk sayings and proverbs [33] and are often determined from recorded interview transcripts. These can then be divided further into sub-themes for identifying further patterns in data. Following theme definition, a literature review should be performed to validate the argument for the choice of themes (and sub-themes) in order to build a report, or story that highlights the patient perspective on the health service. Broad outcome measures for quantitative analysis, such as length of stay and readmission rates, are useful across many conditions. However, developing condition-specific measures, (effective interventions to improve the quality of care for qualitative analysis in co-led redesign becomes a time consuming and difficult process. Both methods of research have benefits in co-led redesign. Quantitative research counts occurrences (eg, prevalence, frequency), whereas qualitative research, following a thorough analysis, can describe the complexity, range of or breadth of occurrences and generate hypotheses about a particular phenomenon [31].

New South Wales Health (Australia) and Flinders Medical Centre (South Australia) underwent a major clinical services redesign program between 2002 and 2005 [34] utilizing the patient journey method. Mapping of the current patient journey was performed by involving all staff members as well as interviewing patients and their families about their experiences within particular health services. This provided an avenue for patients and their families to reflect on the service, provide feedback about potential improvements, and gave them an opportunity to speak openly about strengths and weaknesses of the overall health care service. The clinical services redesign in New South Wales is ongoing and is delivered as part of the NSW Agency for Clinical Innovation Program [35]. The benefits of the Flinders Medical Centre redesign include the stabilizing

of staffing, reductions in the numbers of adverse events throughout the hospital and reduced length of stay for medical patients admitted as emergency cases [34]. In the United Kingdom, the involvement of patients and the public in shaping health care is well established in National Health Service (NHS) policy and reinforced by a government that is committed to empowering individuals to play a greater role in their own health care [36]. The type of redesign developed within the NHS has been utilized for a number of health care services including prostate cancer, acute coronary syndrome, cholecystectomy and head and neck cancer. The prostate cancer redesign resulted in changes that could not have occurred without using a co-design process with [patient] interviewees, such as through the support group that was developed. Data from the prostate cancer redesign indicated that appointments were not coordinated for the patients and their family. A solution that was proposed was a one-stop-shop for all diagnostic tests, but the men and their wives [from the support group/ from the interviews] considered that all of the tests being done on the one day would be too much. [26].

Co-led redesign has also been successfully implemented in services in Sweden, where patients with diabetes were consulted formally about the existing diabetes management in primary care plans. This led to changes to the organization of care and in the type of information provided to patients utilizing this service [37]. Between 2004 and 2008, a patient-centered method to redesign patient care delivery was developed and refined at the University of Pittsburgh Medical Center (US) as a means of improving patient care experiences and exceeding the needs and desires of patients and their families [38]. This was a co-led redesign process involving the selection of a particular patient experience (health service), establishment of a patient and family-centered care experience group, the mapping of the complete patient journey (surveys, storytelling, patient shadowing, and family experience), and the involvement of all staff in the care experience. This initiative resulted in a dramatically improved service and outcomes without increasing cost. It also eradicated silos that are often seen in hospital systems. Results include a 14% significant increase in patient satisfaction in the emergency department and a 13% significant increase in patient satisfaction in the general trauma ward [38]. The savings in this study can be attributed to the development of patient and family experience initiatives based on the timeline of implementation and evaluation. This study also resulted in a decrease in staff turnover of 66% over three years, as well as an annual saving of \$5,000 in one inpatient unit by changing the late food-tray menu and process.

Barriers to the Use of Co-Led Redesign

General Barriers

While co-led redesign has many benefits, it also has some limitations. The staff resources required to complete the quantitative and qualitative analysis adequately on behalf of the health service can create delays and can be quite costly, resource-wise and financially. Completion of this work by health care staff may also create staff stress and anxiety if they feel inexperienced and lack time and resources. Co-led redesign

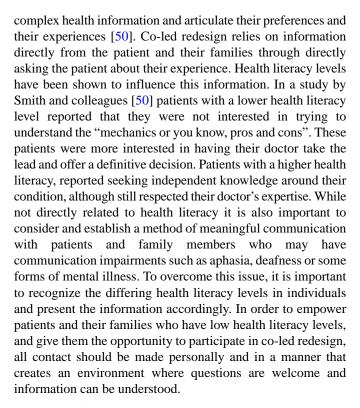


involves the establishment of a patient journey group to oversee the process and take on the responsibility of ensuring that the redesign project is understood and working well. The patient journey group comprises a number of roles including a chair, lead, and a clinical champion, all coming from within the organization and a patient journey facilitator who is not a part of the clinical team [26]. Knowledge management is a key part of the co-led redesign process. Regular meetings and communication of research findings, progress reviews, maintaining focus, and delivering on the expectations of the redesign are important in ensuring overall success. Again, time and resources often don't allow key players to be fully invested in co-led redesign, despite their intentions for change. While a number of patient and family engagement initiatives have been developed in many health care organizations outside of co-led redesign, they often lack clear guidelines and fail to reveal an evidence-base to explain or support the approach [39].

Some potential barriers for overall consumer and patient involvement in health care and general redesign initiatives were identified by Nilsen and colleagues [40]. Health professionals often view themselves as authorities. People may believe that involving patients in policy, research, and practice increases costs and causes delays. They may also fear that patients may have biased views that interfere with the "academic impartiality" of knowledge development [41]. Another factor found to impede meaningful patient involvement is organizational professional resistance to change or learning something from health service providers [42]. Evidence suggests that a blame culture within health care organizations prevents staff from being open and sharing their views [43-46]. Managerial interest is often focused on budgets and targets and achieving status rather than on patients and their families. There is also evidence to suggest that staff shortages, lack of time and resources, poor communication, and fragmented ways of working continue to affect both patient and staff experiences adversely [43,46-48]. Issues based on the patient and staff experience with care, and the delivery of care in general, are important for understanding potential issues within co-led redesign. It is imperative to ensure that the patient and family experience and story is not demeaned by a lack of managerial support for co-led redesign, or that a focus on administrative targets prevents the full involvement of patients and their families.

Health Literacy

Another major limiting factor in direct engagement of patients and their families is low health literacy, particularly in areas known to have a low SES. Initial and ongoing patient participation in the qualitative component of co-led redesign is dependent on a number of patient-specific issues, as identified by Jordan and colleagues [49]: the ability to identify and understand health messages, having access to information and services, and possessing the skills to decide which information is useful. A key limiting factor for active patient participation in developing and building relationships with health care providers is health literacy of the patient and their family. Education and health literacy potentially limit a person's ability to be involved in decisions about their health [50] and the health care of their families. Greater involvement places an increased demand on each patient's literacy skills in order to understand



Poor health literacy and low SES tend to go hand in hand, as does chronic disease and low SES [51][52]. Gaining informed consent from this group in co-design is a challenge, but they are the very people who need to take part. Informal approaches to such potential participants, such as phone calls, can open up fruitful participation, as opposed to a formal letter. Focus groups may be a good way to gain views from higher SES patients with good health literacy, but can be very threatening for other groups. The venue for an interview may provide a solution by changing the power relationship. For example, offering to do the interview in the patient's home, with supportive family members or friends present, may convince him to consent. The style of the interview is important in terms of using the appropriate level of English and being clear about the concepts concerned. An interviewer who creates an environment in which the participant knows that there is no right or wrong answer, and that his or her views are valued, is crucial.

Complaints Versus Feedback

Another barrier to successful patient led initiatives around improving health care services, identified by Mead and Bower [53] is the tension between the aims and priorities of health practitioners and those of the patients and families. This conflict has been identified as a limitation in the organisational design and governance engagement level as well as from a policy making perspective. If there is a specific issue or complaint from a patient or family member, this may be the only focus of their involvement and they may become distracted from the overall feedback process. The involvement of patients and families with their own agendas for taking part in the research project may be counterproductive as their attention is on one aspect of service and they may fail to become engaged in the overall feedback journey. An interviewer can ensure that the direction of the conversation remains focused on experience feedback and relevant information by using a semi-structured



questioning technique, allowing the interviewer to bring the conversation back when required.

Conclusion: Future of Co-Led Redesign

Co-led redesign has been shown to have a number of benefits over traditional health care redesign initiatives, most notably, adding the patients' (and their family's) perspective to particular health care services. This information not only provides another source of evidence to build a case for redesign, but it also ensures that patients and their families are able to share their unique experiences, are represented, and feel involved in the improvement of the delivery of their health care services. There

are many successful redesigned services around the world that are a result of a co-led approach. This suggests that this method may be a major option for the future of clinical redesign.

But, without serious investment in an infrastructure for co-led redesign, as well as a commitment from its leadership and management, it is not possible for most health systems to adopt co-led redesign as their standard approach. Indeed, even a local single service co-led redesign is resource intensive, requiring a clinical team that is open to being informed in this way. It can be a challenge to find staff or university partners with the skills to bring in the patient voice. Clearly, there is much more work that needs to be done to fully develop a co-led redesign model for health care.

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Authors' Contributions

SJP contributed 80% to the manuscript including the full first draft and changes based on feedback. SC contributed 20% to the writing of the manuscript through providing direction and new ideas, editing and feedback.

Conflicts of Interest

None declared.

References

- 1. Beresford P, Croft S. Citizen involvement: a practical guide for change. London: Macmillan; 1993.
- 2. Coulter A. Engaging Patients in Healthcare. Maidenhead, UK: Open University Press; 2011.
- 3. Reid Ponte P, Peterson KA. A patient- and family-centered care model paves the way for a culture of quality and safety. Crit Care Nurs Clin North Am 2008 Dec;20(4):451-464. [doi: 10.1016/j.ccell.2008.08.001] [Medline: 19007711]
- 4. Howell E, Reeves R. NHS Surveys. Key findings report: Stroke Patient Survey Results 2004 URL: http://www.nhssurveys.org/survey/364 [accessed 2017-10-31] [WebCite Cache ID 6ucEJcjcL]
- 5. Pound P, Bury M, Gompertz P, Ebrahim S. Stroke patients' views on their admission to hospital. BMJ 1995 Jul 01;311(6996):18-22 [FREE Full text] [Medline: 7613315]
- 6. Morris R, Payne O, Lambert A. Patient, carer and staff experience of a hospital-based stroke service. Int J Qual Health Care 2007 Apr;19(2):105-112. [doi: 10.1093/intqhc/mzl073] [Medline: 17277009]
- 7. Gerteis M, Edgman-Levitan S, Daley J, editors. Through the patient's eyes: understanding and promoting patient-centered care. San Francisco: Jossey-Bass; 1993.
- 8. Carman KL, Dardess P, Maurer M, Sofaer S, Adams K, Bechtel C, et al. Patient and family engagement: a framework for understanding the elements and developing interventions and policies. Health Aff (Millwood) 2013 Feb;32(2):223-231 [FREE Full text] [doi: 10.1377/hlthaff.2012.1133] [Medline: 23381514]
- 9. Dieppe P, Rafferty AM, Kitson A. The clinical encounter--the focal point of patient-centred care. Health Expect 2002 Dec;5(4):279-281 [FREE Full text] [Medline: 12460216]
- 10. Pritchard P. Partnership with Patients. 3rd ed. Exeter, Devon, England: Royal College of General Practitioners; 1993.
- 11. Barnes M. Public Expectations: From Paternalism to Partnership: Changing Relationships in Health and Health Services. London: Nuffield Trust and University of Cambridge; 1999.
- 12. Elwyn G, Gray J, Clarke A. Shared decision making and non-directiveness in genetic counselling. J Med Genet 2000 Feb;37(2):135-138 [FREE Full text] [Medline: 10662816]
- 13. Ryan RM, Deci EL. Self-determination theory and the facilitation of intrinsic motivation, social development, and well-being. Am Psychol 2000 Jan;55(1):68-78. [Medline: 11392867]
- 14. Rodgers H, Atkinson C, Bond S, Suddes M, Dobson R, Curless R. Randomized Controlled Trial of a Comprehensive Stroke Education Program for Patients and Caregivers. Stroke 1999 Dec 01;30(12):2585-2591. [doi: 10.1161/01.STR.30.12.2585]
- 15. Frank G, Johnston M, Morrison V, Pollard B, MacWalter R. Perceived control and recovery from functional limitations: preliminary evaluation of a workbook-based intervention for discharged stroke patients. Br J Health Psychol 2000;5(4):413-420. [doi: 10.1348/135910700169017]
- 16. Kalra L, Evans A, Perez I, Melbourn A, Patel A, Knapp M, et al. Training carers of stroke patients: randomised controlled trial. BMJ 2004 May 08;328(7448):1099 [FREE Full text] [doi: 10.1136/bmj.328.7448.1099] [Medline: 15130977]



- 17. Ellis G, Rodger J, McAlpine C, Langhorne P. The impact of stroke nurse specialist input on risk factor modification: a randomised controlled trial. Age Ageing 2005 Jul;34(4):389-392. [doi: 10.1093/ageing/afi075] [Medline: 15955759]
- 18. Barry MJ, Edgman-Levitan S. Shared decision making--pinnacle of patient-centered care. N Engl J Med 2012 Mar 01;366(9):780-781. [doi: 10.1056/NEJMp1109283] [Medline: 22375967]
- 19. Graffigna G, Barello S, Riva G, Bosio AC. Patient Engagement: The Key to Redesign the Exchange Between the Demand and Supply for Healthcare in the Era of Active Ageing. Stud Health Technol Inform 2014;203:85-95. [Medline: 26630515]
- 20. Forster A, Brown L, Smith J, House A, Knapp P, Wright JJ, et al. Information provision for stroke patients and their caregivers. Cochrane Database Syst Rev 2012 Nov 14;11:CD001919. [doi: 10.1002/14651858.CD001919.pub3] [Medline: 23152210]
- 21. Sommers R, Goold SD, McGlynn EA, Pearson SD, Danis M. Focus Groups Highlight That Many Patients Object To Clinicians' Focusing On Costs. Health Affairs 2013 Feb 04;32(2):338-346. [doi: 10.1377/hlthaff.2012.0686]
- 22. Ajzen I. Perceived behavioral control, self-efficacy, locus of control, and the theory of planned behavior. J Appl Soc Psychol 2002 Apr 01;32(4):665-683.
- 23. Mockford C, Staniszewska S, Griffiths F, Herron-Marx S. The impact of patient and public involvement on UK NHS health care: a systematic review. Int J Qual Health Care 2012 Feb;24(1):28-38 [FREE Full text] [doi: 10.1093/intqhc/mzr066] [Medline: 22109631]
- 24. Coote A, Lenaghan J. Citizens' Juries: Theory into Practice. London: IPPR; 1997.
- 25. Pickard S. Citizenship and consumerism in health care: a critique of citizens' juries. Social Policy & Admin 1998 Sep;32(3):226-244. [doi: 10.1111/1467-9515.00100]
- 26. Campbell S, Watson B, Gibson A, Husband G, Bremner K. Comprehensive service and practice development: city hospitals Sunderland's experience of patient journeys. Pract. Dev. Health Care 2006 Mar;3(1):15-26. [doi: 10.1002/pdh.118]
- 27. Public Participation Team. Patient and Public Participation Policy. Leeds, UK: NHS England; Nov 2015.
- 28. Herrin J, Harris KG, Kenward K, Hines S, Joshi MS, Frosch DL. Patient and family engagement: a survey of US hospital practices. BMJ Qual Saf 2016 Mar;25(3):182-189 [FREE Full text] [doi: 10.1136/bmjqs-2015-004006] [Medline: 26082560]
- 29. Bate P, Robert G. Experience-based design: from redesigning the system around the patient to co-designing services with the patient. Qual Saf Health Care 2006 Oct;15(5):307-310 [FREE Full text] [doi: 10.1136/qshc.2005.016527] [Medline: 17074863]
- 30. Crawford MJ, Rutter D, Manley C, Weaver T, Bhui K, Fulop N, et al. Systematic review of involving patients in the planning and development of health care. BMJ 2002 Nov 30;325(7375):1263 [FREE Full text] [Medline: 12458240]
- 31. Curry LA, Nembhard IM, Bradley EH. Qualitative and mixed methods provide unique contributions to outcomes research. Circulation 2009 Mar 17;119(10):1442-1452 [FREE Full text] [doi: 10.1161/CIRCULATIONAHA.107.742775] [Medline: 19289649]
- 32. Attride-Stirling J. Thematic networks: an analytic tool for qualitative research. Qualitative Research 2001 Dec 01;1(3):385-405. [doi: 10.1177/146879410100100307]
- 33. Taylor SJ, Bogdan R. Introduction to qualitative research methods: the search for meanings. New York: Wiley; 1984.
- 34. Ben-Tovim DI, Dougherty ML, O'Connell TJ, McGrath KM. Patient journeys: the process of clinical redesign. Med J Aust 2008 Mar 17;188(6 Suppl):S14-S17. [Medline: <u>18341470</u>]
- 35. NSW Agency for Clinical Innovation. Chatsworth, NSW, Australia: NSW Health Collaboration. Innovation. Better Healthcare URL: https://www.aci.health.nsw.gov.au/about-aci/collaboration-innovation-better-healthcare [accessed 2017-10-31] [WebCite Cache ID 6ucomVq6X]
- 36. Department of Health. London, UK: Department of Health; 2009 Jan 21. The NHS Constitution for England URL: http://webarchive.nationalarchives.gov.uk/+/www.dh.gov.uk/en/publicationsandstatistics/publications/
 publicationspolicyandguidance/dh 093419 [accessed 2017-10-31] [WebCite Cache ID 6ucozCdAD]
- 37. Carlson A, Rosenqvist U. Locally developed plans for quality diabetes care: worker and consumer participation in the public health-care system. Health Educ Res 1990;5(1):41-52. [doi: 10.1093/her/5.1.41]
- 38. DiGioia III A, Lorenz H, Greenhouse PK, Bertoty DA, Rocks SD. A patient-centered model to improve metrics without cost increase: viewing all care through the eyes of patients and families. J Nurs Adm 2010 Dec;40(12):540-546. [doi: 10.1097/NNA.0b013e3181fc1] [Medline: 21084890]
- 39. Baron S. Exploring the patient journey: a collaborative approach to patient-centred improvement in healthcaredissertation. Bournemouth, UK: Bournemouth University; 2014. URL: <a href="https://research.bournemouth.ac.uk/pgr/sue-baron-exploring-the-patient-journey-a-collaborative-and-multi-disciplinary-approach-to-patient-centred-healthcare-improvement/sue-baron-exploring-the-patient-journey-a-collaborative-and-multi-disciplinary-approach-to-patient-centred-healthcare-improvement/sue-baron-exploring-the-patient-journey-a-collaborative-and-multi-disciplinary-approach-to-patient-centred-healthcare-improvement/sue-baron-exploring-the-patient-journey-a-collaborative-and-multi-disciplinary-approach-to-patient-centred-healthcare-improvement/sue-baron-exploring-the-patient-journey-a-collaborative-and-multi-disciplinary-approach-to-patient-centred-healthcare-improvement/sue-baron-exploring-the-patient-journey-a-collaborative-and-multi-disciplinary-approach-to-patient-centred-healthcare-improvement/sue-baron-exploring-the-patient-journey-a-collaborative-and-multi-disciplinary-approach-to-patient-centred-healthcare-improvement/sue-baron-exploring-the-patient-journey-a-collaborative-and-multi-disciplinary-approach-to-patient-centred-healthcare-improvement/sue-baron-exploring-the-patient-journey-a-collaborative-and-multi-disciplinary-approach-to-patient-centred-healthcare-improvement/sue-baron-sue-baron
- 40. Nilsen ES, Myrhaug HT, Johansen M, Oliver S, Oxman AD. Methods of consumer involvement in developing healthcare policy and research, clinical practice guidelines and patient information material. Cochrane Database Syst Rev 2006 Jul 19(3):CD004563. [doi: 10.1002/14651858.CD004563.pub2] [Medline: 16856050]
- 41. Boote J, Telford R, Cooper C. Consumer involvement in health research: a review and research agenda. Health Policy 2002 Aug;61(2):213-236. [Medline: 12088893]
- 42. NHS Service Delivery and Organisation R&D Programme. Briefing paper: How managers can help users to bring about change in the NHS. Change Management 2004.



- 43. Coulter A. After Bristol: putting patients at the centre. Qual Saf Health Care 2002 Jun;11(2):186-188 [FREE Full text] [Medline: 12469698]
- 44. Attree M. Factors influencing nurses? decisions to raise concerns about care quality. J Nurs Manag 2007 May;15(4):392-402. [doi: 10.1111/j.1365-2834.2007.00679.x]
- 45. Brandom BW, Callahan P, Micalizzi DA. What happens when things go wrong? Paediatr Anaesth 2011 Jul;21(7):730-736. [doi: 10.1111/j.1460-9592.2010.03513.x] [Medline: 21251144]
- 46. Coulter A, Ellins J. Patient-Focused Interventions: A Review of the Evidence. London: The Health Foundation; 2006. URL: http://www.health.org.uk/sites/health/files/PatientFocusedInterventions ReviewOfTheEvidence.pdf [accessed 2017-10-31] [WebCite Cache ID 6ucqGbUsa]
- 47. Calkin S. Mid Staffs inquiry considers minimum staffing levels. Nursing Times 2011;107(43):1.
- 48. Francis R. The Mid Staffordshire NHS Foundation Trust Public Inquiryxecutive Summary. London: The Stationery Office; 2013.
- 49. Jordan JE, Briggs AM, Brand CA, Osborne RH. Enhancing patient engagement in chronic disease self-management support initiatives in Australia: the need for an integrated approach. Med J Aust 2008 Nov 17;189(10 Suppl):S9-S13. [Medline: 19143585]
- 50. Smith SK, Dixon A, Trevena L, Nutbeam D, McCaffery KJ. Exploring patient involvement in healthcare decision making across different education and functional health literacy groups. Soc Sci Med 2009 Dec;69(12):1805-1812. [doi: 10.1016/j.socscimed.2009.09.056] [Medline: 19846245]
- 51. Schillinger D, Grumbach K, Piette J, Wang F, Osmond D, Daher C, et al. Association of health literacy with diabetes outcomes. JAMA 2002;288(4):475-482. [Medline: <u>12132978</u>]
- 52. Dewalt DA, Berkman ND, Sheridan S, Lohr KN, Pignone MP. Literacy and health outcomes: a systematic review of the literature. J Gen Intern Med 2004 Dec;19(12):1228-1239 [FREE Full text] [doi: 10.1111/j.1525-1497.2004.40153.x] [Medline: 15610334]
- 53. Mead N, Bower P. Patient-centredness: a conceptual framework and review of the empirical literature. Soc Sci Med 2000 Oct;51(7):1087-1110. [Medline: <u>11005395</u>]

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