Patient Centered Care - A Conceptual Model and Review of the State of the Art

Ravishankar Jayadevappa*1 and Sumedha Chhatre2

1Department of Medicine, Leonard Davis Institute of Health Economic, University of Pennsylvania, 224, Ralston-Penn Center, 3615 Chestnut Street, Philadelphia PA 19104-2676, USA
2Department of Psychiatry, 4051, 3535 Market Street, Philadelphia, PA 19104, USA

Abstract: Background: Patient-centered care that encompasses informed decision making can improve treatment choice, quality of care and outcomes. Patient-centered care recognizes the need for major changes in the process of care that arranges health care system around the patient.

Objective: Study objective was to evaluate and discuss the interplay of components of patient-centered care by developing a conceptual model of patient-centered care.

Methods: Comprehensive literature review was conducted using Medline, CINAHL, and Cochrane databases. Included were English language studies addressing issues related to patient-centered-care and patient reported outcomes.

Results: Though the concept of patient-centered care emerged in the early 50s, it exploded in the health care research policy arena exponentially in the late nineties. The conceptual model described here can aid objective and subjective evaluation of patient-centered care. As we strive to improve the quality of care, patient-centered care can play a pivotal role in this process. This however requires changes in our healthcare system so as to improve overall quality of care by minimizing wasteful health resource consumption.

Conclusions: With healthcare costs projected to continue their rapid increase, the current paradigm of healthcare is unsustainable. More research is needed to explore the various attributes of patient-centered care, its acceptability, and comparative effectiveness in the healthcare arena.

Keywords: Patient centered care, patient reported outcome, conceptual model, racial and ethnic disparity, policy measures.

INTRODUCTION

There is growing recognition that patient-centered care is associated with quality of care. Important works that paved the way for the recent emergence of patient-centered care are ‘Through the Patient’s eyes’ edited by Margaret Gerteis et al., and articles by Mead and Bower and by Hobbs [1-3]. The book edited by Gerteis et al. presented the material gathered for the Picker/Commonwealth Program for Patient-centered care that was established in 1987 [1]. Three important themes were addressed: association between patients’ interactions with healthcare providers, institutions and systems and their subjective experience of illness and wellbeing; extent to which the systems work to meet patient needs; and incorporation of patients’ perspectives on healthcare quality by health care providers, managers, and planners. In their article, Mead and Bower reviewed the conceptual and empirical literature, analyzed five dimensions of patient and doctor relationship in the context of patient centered care and developed a model of the various aspects of the patient-doctor relationship [3]. More recently, Hobbs identified various dimensions of patient-centered care from the nursing perspective as found in the recent literature [2]. She concluded that the interaction between nurse and patient was central for effective application of patient-centered care. In continuation of these endeavors, in this article we first explore the progression of patient-centered care concept via a comprehensive literature review. We then present our conceptual model of patient-centered care, followed by discussion of the interplay of different constructs for achieving patient-centered care.

Patient-centered care is a concept that has taken off in the past decade or two as the era of health care consumerism has dawned [4]. Since the late 1970s, several health care organizations, policy makers, and regulatory and research agencies have endorsed and embraced the idea of patient-centered care [4, 5]. The Institute of Medicine listed patient-centered care as one the six aims for improvement in its 2001 report ‘Crossing the Quality Chasm’ and defines patient-centered care as care that respects and responds to the patient’s preferences, needs and values and ensures that clinical decision incorporates patients’ values [6]. Patient-centered care may have important benefits for patients through improved communication, appropriate intervention, enhanced satisfaction and patient reported outcomes, and finally biomedical outcomes [2-3,7]. The term patient-centered care is used in many contexts and relations to characteristics of patients and providers. It has been suggested that one of the barriers to the effective
implementation of patient-centered care is the ambiguity of its definition and key components [2-3]. Patient-centered care implies individualized patient care based on patient-specific information [2, 8] rather than focusing exclusively on the disease [3, 9-12]. This creates a comprehensive healthcare approach, where the physician tries to see the illness through the patient’s perspective, and is responsive to the patient’s needs and preferences [13].

Patient-centered care is also known as patient-centered approach or patient-focused care [2, 10]. The concept of patient-centered care includes many subcategories such as patient-centered communication, patient-centered access, patient-centered interview, patient-centered outcome and patient-centered diagnosis [10]. The implementation of patient-centered care has also led to a decrease in the average length of stay, improved patient satisfaction, and efficient and effective treatments, leading to lower costs of care [4, 14, 15]. From the perspective of a provider, via high quality patient-centered care, institutions are able to create a brand name that keeps its old consumers and draws in new ones [4]. Thus, patient-centered care model is being increasingly recognized as important for the delivery of high quality care.

Although many believe that hospitals are oriented to meet the patient’s needs, there remain considerable opportunities to enhance their patient-centeredness by treating the patient as a person. To effectively operationalize the patient-centered care, hospitals must aim to facilitate the attributes of patient-centered care through education, shared knowledge, integrated and team management and free flow and accessibility of valued information. This highlights the need for major changes in our healthcare system by addressing or integrating key dogmatic issues such as rising healthcare costs, medical liability, disparity in care and access to care.

**METHODS**

**Identification of Studies**

A comprehensive search was conducted by the authors to identify studies matching the term 'patient-centered care'. The following electronic databases were searched for English-language articles published in the period 1910 to October 2010: Medline, Pubmed, CINAHL, and Cochrane. Additional studies were obtained via period search updates and from the reference lists of included studies.

**Selection Criteria**

Information from abstracts and titles of the studies found via the search was used to include or exclude studies. To be considered for inclusions, studies had to address the issues related to patient-centered care and at least one of key component of patient-centered care such as chronic care, cost, patient reported outcomes, racial and ethnic disparity, provider, preference and utility assessment or policy. Eligible studies also discussed patient reported outcomes in the context of patient-centered care or evaluated the conceptual model of patient-centered care and its components. Studies related to acute care, patient reported outcomes alone and cost were excluded. A flow-chart of study selection process is presented in Fig. (1).

**RESULTS**

Our comprehensive review evolved into four main attributes of patient-centered care concept. In this section, we first present the overview of state of the art, followed by a discussion of the four main attributes of patient-centered care and finally present our conceptual model of patient-centered care.

**Patient-Centered Care- State of the Art**

The concept of patient-centered care emerged in the early 50s, and exploded in the health care research policy arena exponentially in the late nineties. In 1990, the Picker/Commonwealth program sponsored a book, edited by Gerteis et al., to conceptualize different dimensions of patient-centered care [1]. This important work in the arena of patient-centered care emphasizes quality of care as perceived through patient’s perspective. Important dimensions of patient-centered care that were discussed were -respecting patient’s individuality, coordination of care that is unique to the environment of hospitals and health care facilities, communications between patients and providers (physician and nurses), intervention strategies for improving quality of patient-centered care within an institution, minimizing physical trauma during acute care, supporting patient’s social and emotional needs, role of families, and continuity of care. Another important work in the arena of patient-centered care was a conceptual framework to identify various aspects of doctor-patient relationship encompassed by the concept of patient-centeredness and to assess the advantages and disadvantages of alternative methods of measuring patient-centered care [3]. Patient-centered care was specified through five dimensions-biopsychosocial perspective, the ‘patient-as-person’, sharing power and responsibility, therapeutic alliance, and the ‘doctor-as-person’. The studies that measured (using self-report instruments and external observation methods) these dimensions were reviewed. It was concluded that while some of the measures were able to relate to these dimensions, more research is needed to develop measures for more complex and contextual dimensions of patient-centeredness.

Given the cultural diversity and the noticeable disparities in care between racial/ethnic/minority/poor in our healthcare system, cultural competence needs to be factored into patient-centered care. Some argue that since patient-centered care individualizes care, disparities in care are lessened due to equalization of power between patient and physician, and since patient-centered care fosters positive interactions it should theoretically lower the differential interpersonal behavior [10, 12, 16, 17]. However, if physicians choose to take advantage of the digital age and communicate with their patients primarily via the web, they could magnify disparities for low income and minority patients [10]. Although cultural competence and patient-centered care are two distinct concepts with different goals, (cultural competence sets out to make healthcare equitable for all, whereas patient-centered care sets out to elevate healthcare quality) many of their characteristics overlap. Both concepts: 1) understand and are interested in the patient as a unique person; 2) use a bio-psychosocial model; 3) explore and
respect patient beliefs, values, meaning of illness, preferences and needs; 3) build rapport and trust; 4) find common ground; 5) are aware of their own biases/assumptions; 6) maintain and are able to convey unconditional positive regard; 7) allow the involvement of friends/family when desired; and, 8) provide information and education tailored to patient’s level of understanding.

Saha et al. argue that although cultural competence and patient-centered care are two distinct ideas [10], healthcare providers should seek to incorporate cultural competence into patient-centered care in order to provide healthcare that is both equitable and of high quality. By doing so, providers would seek to include the following attributes of cultural competence: 1) understanding the meaning of culture; 2) knowledge about different cultures; 3) appreciation of diversity; 4) awareness of health disparities and discrimination affecting minority groups; and, 5) effective use of interpreter services when needed. Failure to do so would continue to increase the disparities that are already visible in the healthcare system [1, 9, 10, 12, 13, 16-27]. Silow-Carroll et al. went through an exhaustive literature review and devised a list of eight core components of patient-centered care that are especially pertaining to underserved populations: 1) welcoming environment; 2) respect for patients’ values and expressed needs; 3) patient empowerment or “activation”; 4) socio-cultural competence; 5) coordination and integration of care; 6) comfort and support; 7) access and navigation skills; and, 8) community outreach (28). They also identified following key institutional structure and process necessary to build patient centered care policies: 1) feedback and measurement; 2) patient/family measurement; 3) workforce development; 4) leadership; and, 5) involvement in collaborative pilots [28].

Physicians and nurses must acquire certain skills for patient-centered care to be successful. In order for the physician to be able to make an appropriate diagnosis, s/he must be able to identify antecedents, triggers, and mediators of the disease [23]. Thus, physicians must be able to elicit the entirety of the patient’s story. This includes not only learning about the sicknesses and symptoms, but also their environment, beliefs, dietary habits, risk factors, and social and psychological function. Through effective patient-centered communication, physicians are able to understand the patient’s perspective. This forms a collaborative partnership that actively promotes patient involvement in decision making, ultimately leading to better outcome and satisfaction [3, 5, 12, 18, 21, 22, 24-26, 29]. In one study, physicians were asked how they would treat a patient with abdominal pain who had already been diagnosed with gastritis by another specialist. Over half choose to put these
patients on acid lowering therapy, a conventional diagnosis, without inquiring into other triggers such as patient’s use of aspirin, alcohol, and tobacco. Ignoring these aspects can potentially decrease the efficacy of treatment [19]. However, eliciting a patient’s story requires the physician to have the necessary communication and people skills to build rapport with the patient [2, 5]. Thus, physicians must spend the necessary time to listen to and understand the patient needs and preferences [2, 5, 20].

In addition to the physician, another important component in patient-centered care is the nurse. Hobbs outlined the dimensions of patient-centered care from a patient and nurse perspective in the context of acute care [2]. In order for patient-centered care to be effective, it must be able to alleviate the patient’s vulnerabilities. Patients willingly seek care because their needs exceed their capacity for self care and patients will experience a heterogeneous response to illness. The nurse must be able to show a caring presence via communication and other manifestations, approach the patient as an individual, have the necessary skills and competencies and be able to deviate from established norms, if necessary. Through this process, the nurse is able to provide effective care, minimize the erosion of individual (patient) identity, address complexity and broaden the explanatory perspectives of illness [2, 30-33]. Hobbs’ study reviewed literature between 2000 and 2006 and was primarily focused on patient centered care via a nursing perspective. It rightly pointed out that there is a lack of interdisciplinary discussion and application of patient-centered care [2]. Thus, it is crucial for all components of healthcare systems to incorporate and integrate attributes of patient-centered care. Patient-centered care is highly subjective; its effectiveness is usually measured through patient reported surveys [5, 34]. Patients were more likely to view a visit as patient centered if it included a discussion of the problem as well as discussion and agreement about treatment options [2-6, 8-10, 13, 35]. A study by Wolff et al. indicated no significant differences in the level of satisfaction between patients receiving patient-centered care and those not. However, they did find that nurses who used patient-centered care were able to positively influence pre-surgery preparations and help patients fill discharge prescriptions [27]. Overall, physicians and nurses must also determine when, how and which type of attributes of patient-centered care is most appropriate to use. However, there exists a dearth of research in identifying diseased specific decision aids and establishing their comparative effectiveness in understanding patients’ need and preferences and tailoring appropriate interventions.

**Patient Centered Care – Clinical Convenience**

Studies have shown that by practicing patient-centered care, facilities experience improvement in patients’ health status, quality of care and increased efficiency of care [32, 36-67]. One study found that if patients considered their visit to be patient-centered then their recovery improved, diagnostic tests and referrals were 50 percent less frequent and number of subsequent visits decreased [32]. Another study found that patients wanted to be treated with a patient-centered approach [50]. Doing so meant that the patients were more likely to be satisfied, more enabled and showed signs or symptoms of improvement [32, 47, 50, 65, 68, 69]. It was also found that a perceived patient-centered care visit led to fewer subsequent visits [32]. Finally, an excellent patient-physician rapport as well as continuity of care was correlated with improved preventive care delivery [60]. Two aspects of patient-centered care, effective communication and continuity of care, are especially important [45].

A review by Stewart showed that effective physician-patient communication positively affects the patients’ emotional health and leads to symptom resolution, functional and physiologic status and pain control [70]. Other studies also found that a physician finding a common ground with their patient was more likely to affect outcomes than simply talking about the illness [32, 36, 37, 39-44, 46, 49, 54-60, 62-64, 69]. In fact, agreeing with the patient about treatment options and follow up were strongly related to the patient’s recovery [44]. However, another review, which looked at interventions in patient center communication, came to the conclusion that changes in behavior, perceptions, and health behavior outcomes commonly occur but changes in health status and utilization are rare [40, 71]. While these studies discuss the complexities of medical interaction, the importance attached to the issue of sensitivity depends, in part, on the intended function and outcome measure. Thus, a combined biological, psychological, social and economic perspective is crucial to account for the full range of problems presented in care process.

Continuity of care has led to improved outcomes of diabetes care, delivery of preventive care and clinical satisfaction while also decreasing the number of hospitalizations, emergency department visits, readmissions, and reducing length of stay [5, 62, 63, 69]. However, disparities in care can decrease the continuity in care and the effectiveness of patient physician communication, putting certain racial and ethnic groups at a greater disadvantage. One study noted that time spent with the patient may not be the cause of disparities [16]. Instead, they suggest that patient engagement and participation are main factors [16]. It was also found that the decision to press malpractice suits was associated with a perceived lack of patient centeredness and its components [20, 63]. Another study, however, disagrees with the cost savings assessment. Instead, it reports that patient centered care improves patients’ health outcomes at a higher cost [38]. Integrating cost aspects of care and establishing comparative effectiveness of patient centered care activities may aid effective integration of patient centered care into conventional health care systems.

Patient centered access is one way to decrease cost and increase clinical utility. Access can be increased through group visits, office appointments with non-physician providers, telephone appointments, and online communication [48, 72]. Group visits improve efficiency and encourage and elicit greater adherence and satisfaction, improved health outcomes and fewer hospitalizations [39, 42, 51, 60, 61, 64, 72, 73]. If implemented when physical examination is needless, telephone appointments can decrease the frequency of office visits and costs while maintaining patient satisfaction and outcomes [48]. Telephone appointments have already been implemented effectively for medical conditions such as depression, asthma, and urinary tract infections [36, 46, 55, 58, 62]. The widespread availability of the internet has changed the
modes and methods of communication. It has been reported that majority of patients with email access wanted to communicate with their physicians via the internet, and more than a third were willing to pay for this service [36, 37, 40, 41, 43, 44, 46, 49, 54-58, 62, 63, 74]. However, the implementation of these services has been slow due to physician concerns about reimbursement and other financial and privacy concerns [37]. The Veteran’s Affairs has implemented a patient centered care methodology for their patients suffering from chronic diseases and old age and found it to be more cost effective than institutional care. They also found that it “preserve[s] functional independence and postpone or even obviate[s] the need for institutional care for many who are frail from chronic illness or advanced age” [54]. Another problem with our system is the lack of timely appointments which inflict additional cost and inefficiency [52]. By following an advanced care system, where approximately 50 percent of the workday’s appointment slots are kept open, patients can schedule appointments according to their own needs [52]. This model was implemented in a Chicago primary care network and showed a significant improvement in timeliness of visits, patient satisfaction, and continuity of care [53].

Patient Centered Care - Patient Reported Outcomes

Patient reported outcomes, such as health related quality of life, satisfaction with care, trust, psychological well-being and utility of preferences have the potential to play a key role in bringing the patient’s voice to the patient-centered care [59, 75]. A study by Stewart et al. showed that if the patient perceived the visit to be patient-centered, it was associated with positive outcomes [32]. Studies have reported that patient-centered care can enhance patient satisfaction and outcomes [3, 76-86]. Flocke et al. discovered that patient-centered care style was associated with higher patient-reported quality of primary care and satisfaction with care [46]. The Veteran Affairs ran a pilot patient-centered care program in Florida and found improved patient satisfaction, as well as physical and mental health functional status [41]. A study of headache found that if patients felt that a full discussion of their problem took place, their headache issues were likely to be resolved after one year [74]. Few studies have directly looked into the relationship between patient-centered care and patient reported outcomes, but it is reasonable to say that patient-centered care leads to improved outcomes.

In harmony with patient reported outcomes, informed decision making is at the core of patient-centered care model, which is a process that implies that the physician’s knowledge is transferred to the patient, who then has the knowledge and preferences necessary to make a decision. This movement toward informed decision making has created a need for an explicit assessment of patient preferences for treatment. Preference (or utility) is defined as levels of satisfaction, distress or desirability that people associate with particular health state. Along with clinical guidelines, patient preferences provide direction for treatment selection. Patient preferences also help inform clinical decisions where science has yet to provide dominant solutions to healthcare problems. A patient’s belief, attitude and importantly values that may influence his preferences for outcomes and risk of treatments, are vital for effective patient-physician communication [5, 87-94]. Broadly, the methods to assess the preferences fall into either revealed preference or stated preference. Revealed preference methods are based on observed data relating to individuals’ actual behavior. This method involves inferring values through related conditions (or markets), and thus relying on revealed preferences (example: hedonic pricing and travel cost models). In the revealed preference, individuals choose to discern the best possible option on the basis of their behavior. The stated preference relies on structured or hypothetical conditions (example: contingent valuation methods and choice experiments). Stated-preference methods use surveys/questions to elicit patients’ preferences for hypothetical options in an experimental framework. Thus, one of the key dimensions of patient centered care that stresses in identifying patient-as-person depends on understanding the illness from a patient’s perspective via patient reported outcomes and by incorporating shared responsibility, patient’s need and preferences in clinical decision making. However, we know very little about how these issues integrate into the dimensions of patients centered care. Thus, future research may ameliorate some of these issues that are stalemating patient-centered care.

Patient Centered Care – Disparity in Care

The factors contributing to health care disparities are race and ethnicity and socioeconomic status. It has long been thought that patient-centered care can aid in reducing race and ethnic disparities in quality of health care [17]. Race concordant visits tend to have more patient-centered care components. Race discordant visits led to lower patient reported mutual understanding, satisfaction with communication, compliance, and greater patient reported problems with the physician and less positive physician affect [95-98]. Minorities considering therapies may be less informed about and less involved in treatment choice. Several patient centered care factors are involved in the physician-patient relationship and may aid in enhancing patient participation in clinical decision making process. Trust has been found to be a key determinant in patient continuity and so has been adherence to treatment [32, 95-105]. One study observed that racial and ethnic minorities have less positive perceptions of their physicians than whites [96]. This is not surprising given that the quality of patient-physician interactions is poorer among non-white patients [10]. One way to bridge this gap is to facilitate race-concordant visits. Lower levels of trust, satisfaction in care, and participation in medical decisions have characterized race-discordant visits [95-98]. The 2001 Health Care Quality Survey of the Commonwealth Fund found that African Americans, Hispanics, and other minorities reported higher rates of difficulties in communicating with their physician than their white counterparts [106]. In addition, African Americans were twice as likely to be treated disrespectfully [106]. This is especially disturbing since respectful treatment is a strongest predictor of overall satisfaction with care [10, 68, 107, 108]. In another study, African American patients’ visits showed a less positive effect [109] which is linked with patient satisfaction, adherence, and return visits [21]. However, the study by Saha et al. reported that not all racial disparities in healthcare were attributable to the difference in patient-physician relationship [10].
Patient centered communication has been shown to influence the recall of information, treatment adherence, and satisfaction with care and health outcomes [21, 70, 109-113]. In a study by Johnson et al., physicians were found to be more verbally dominant, and therefore less ‘patient centered’ when dealing with African American patients [109]. Cooper’s study found that race-concordant visits were longer [97], which also helps increase patient’s trust of their physician [107]. Race concordant visits are more participatory. This is important, since participatory decision making is strongly correlated with patient satisfaction [98]. Research has shown that discordant relationships are characterized by lower patient reported mutual understanding, satisfaction with communication, compliance, and greater patient reported problems with the physician and less positive physician effect [73, 95-98, 106].

Language concordance is also an important part of patient centered communication. In the US, there are approximately nineteen -million people who have a limited proficiency in English [28]. Studies have shown that language discordance harms healthcare process and lowers the patients’ ratings of care [113-125]. In a study involving Hispanic patients, it was discovered that those proficient in English were more likely to have medication side effects explained to them and have a higher patient satisfaction rating [117]. It is also interesting to note that those patients who spoke limited English were more likely to have a mammogram within the following two years suggesting that test ordering may substitute communication [121]. This disparity is significant since it adds an avoidable cost to our already strained healthcare system. In Latino asthma patients, language concordance positively affected appointment-keeping and medication adherence [123]. One way to potentially solve the language discordance problem and potentially reduce some of the disparities in care is to provide interpreters. Studies have found that the use of professional interpreters decreases disparities in services received and increases the delivery of health care [122]. Interestingly enough, a study found that patient satisfaction increased and errors decreased with the use of remote-simultaneous interpretation rather than proximate-consecutive interpretation (interpreter physically present) [120].

Minority groups, especially Asians, report lower levels of cultural sensitivity among physicians which affects the quality of patient-physician interaction [102]. Other factors that may influence patient-centered care are unconscious racial and ethnic biases which inadvertently lead to changes in the physician’s interpretation of symptoms, interpersonal behavior [103], and patient health literacy [10]. However, a study found that if medical students are taught with a patient-centered approach which has been successful. The physicians are paid via per patient panel fee and fee-for-service, which allows physicians provide open access care. Denmark’s system implements an electronic prescribing system as well as “off hours” telephone service operated by physicians [43]. In addition to Denmark, the Veteran Affairs has also begun implementing patient-centered care components into their system using a telephone service to inquire into the patient’s status and compliance [54, 131]. As policy makers move toward patient-centered care approach to enhance quality of care, healthcare institutions should be prepared to integrate their care activities in and around patient focused approaches by adopting appropriate information technology, enhancing communications and providing decision aid tools [72, 84, 128, 132-137].

**Patient-Centered Care – Conceptual Model**

The existing research reviewed in the above sections presents multiple dimensions and various contexts for patient-centered care. The concept and basic tenets of patient-centered care have been embraced by the policy makers and leaders in the healthcare arena. However, operationalization of this philosophy is hampered due to the lack of conceptual clarity for researcher, clinical practice and...
policy makers in understanding how these different dimensions will have an impact on improved outcomes and resource utilization. Additionally, the patient-centered care requires an unanticipated level of commitment and significant adjustments in organization structures, physician role and patients belief. Thus, a concise model needs to be developed in order to facilitate implementation of patient-centered care. As observed from Fig. (2), the conceptual model of patient-centered care consists of multiple domains (e.g., patient demographics and clinical characteristics, hospital, nurse and physician attributes) that influence treatment choice, process of care and outcomes. Patient-centered care encompasses informed decision making and is a particular process of decision making by patient and physician where the patient: 1) understands the risk or seriousness of the disease or condition to be prevented; 2) understands the preventive service, including the risks, benefits, alternatives and uncertainties; 3) has weighted his or her values regarding the potential benefits and harms associated with treatment; and 4) has engaged in decision making at a level that he or she desires and feels comfortable [2-6, 8-10]. Patients differ, across age and ethnicity, in the extent to which they wish to be involved in decision making for their medical care and treatment [10]. Although some patients prefer to actively participate in decision making, others opt for a more passive role and defer decisions to their physicians. Physicians and nurses are thus encouraged to tailor the medical care per the preferences of patients [2-6, 8-10, 12, 13]. Since patients’ decision about healthcare utilization may be influenced by their tastes and preferences, it is important to have a better understanding of these preferences. Respecting the patient’s needs and preferences and improving the trust between patient and their caregiver is one of the key attributes of patient-centered care.

DISCUSSION

This systematic review identified 143 studies of patient-centered care. The findings from this literature review indicate that, patient-centered care model has many promising attributes for improving quality of care, reducing cost and improved satisfaction with care. However, it’s wide spread acceptability has been hampered due to lack of leadership and effective integration into policy measures. The challenge lies in strengthening the attributes of patient centered care through macro level policy measures and micro level incentives at organization and system level to adopt the activities related to patient-centered care. Patient-centered care revolves around the issues of patient’s role in his or her own healthcare. Patients have ethical values and legal mandate that allows them to make informed decisions regarding their healthcare. Thus, physicians must facilitate the process of informed decision making and tailor the treatment(s) to match patient preferences (or needs) [32, 138-143].

Fig. (2). Conceptual model of patient centered care.
The patient-centered care model in healthcare should integrate patient preferences, needs and wants, engage patients in clinical decision making and tailor the treatment to maximize outcomes in a cost effective way. This relatively old concept provides unique challenges and opportunities for its application to the ever changing arena of healthcare [32, 59, 138-142]. Such decision making demands integrating the best medical knowledge into patient care, supporting more active patient participation in care and promoting systems of care that are responsive to the patient’s needs or preference. Thus, patient-centered care model integrates (1) understanding the patient and the illness, (2) arriving at mutual understanding regarding illness management and therapeutic alliance, (3) providing valued information, (4) enhancing hospital, doctor and patient relationship; and (5) sensitivity about resource allocation and cost.

Many have advocated in favor of adopting patient-centered care to alleviate racial and ethnic disparity in quality of care. Review of interaction between cultural competence and patient centeredness revealed that although the two concepts have had different histories and foci, many of their core features are the same [3, 10, 68, 95-98, 100, 106, 108]. Each approach holds a promise for improving the quality of healthcare for individual patients, communities and populations [10]. Though there is a widespread interest to adopt patient-centered care to improve quality of care, there is no consensus yet on how best to measure and report patient-centered care. It is crucial that such measures reflect the main components of patient-centered decision quality. This ensures that the patients have adequate knowledge and understanding of the decision to be made and the choices presented, establish trust in shared information and decision, and the treatment decision reflect the patient’s desire for involvement in decision making and his/her values and preference. Measurement of patient reported outcomes, such as generic and disease specific health related quality of life instruments are being used increasingly to measure outcomes that are important to patients with reasonable accuracy [32]. In addition, development of valid and practical measures of decision quality would allow for documentation of poor decision making process and lead to further development and dissemination of effective interventions designed to promote superior quality decision making [32, 138-142]. Measuring decision quality and process of care outcome allows patients, physicians, and other interested stakeholders to evaluate the patient centeredness of the overall care [2-6, 8-10, 13].

LIMITATIONS

The search strategy, its review of English-language only articles, and publication bias may have limited this systematic review. To limit the effect of these potential biases, the search strategy was developed and independently reviewed using Medline and Pubmed by the authors, and articles that were known to the authors previously were included in the review.

CONCLUSIONS

The patient-centered care model that integrates mutually beneficial partnerships among healthcare providers, patients and families has profound implications for the planning, delivery, and evaluation of care. Patient-centered care and evidence based care are not mutually exclusive. Instead, both hold tremendous potential for complementarities in healthcare and should be used to enhance clinical relationships in which caring is humble, mindful, nuanced and comparatively effective. More importantly, at the core of the patient-centered care is the quality of interactions between patients and care providers. Thus, the value of information plays a crucial role in patient centered and evidence based practices. Developing decision quality measures and educating both health professionals and patients regarding process of decision making is crucial for effective integration of patient-centered care.

As we strive to improve quality of patient care, patient-centered care can play a central role in this effort. However, this requires changes in our healthcare system from reimbursement process to discharge planning and social environment [7]. Enhancing decision quality may require systematic changes in the healthcare system that can lead to incorporation of shared decision making interventions into routine care and realignment of financial incentive to reward providers who foster and support high-quality patient centered decision making. Our current reimbursement system should be rewarded through incentive, rather than penalizing for choosing less aggressive care. It should also value the kind of physician-patient interactions that can lead to more patient-centered care. This may lead to improved overall quality of care by minimizing wasteful health resource consumption that have little or no benefit to the patient. With healthcare costs projected to continue their rapid increase, the current paradigm of healthcare is unsustainable, and can benefit from patient-centered care. Patient-centered care can play a vital role in healthcare policy, allocation of resources and delivering appropriate care by effectively integrating patient and provider perspective. The appeal of this unique concept is global. However, extensive research is necessary to demonstrate assessment, analytical methods and evaluation of patient-centered care for its effective integration into our healthcare setting.

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