Explaining Disparities in Treatment Seeking: The Case of Infertility

Lynn K. White  
*University of Nebraska-Lincoln, lwhite3@unl.edu*

Julia McQuillan  
*University of Nebraska-Lincoln, jmcquillan2@unl.edu*

Arthur L. Greil  
*Alfred University, fgreil@alfred.edu*

Follow this and additional works at: [http://digitalcommons.unl.edu/sociologyfacpub](http://digitalcommons.unl.edu/sociologyfacpub)

Part of the Sociology Commons

---

*Sociology Department, Faculty Publications*. 121.  
[http://digitalcommons.unl.edu/sociologyfacpub/121](http://digitalcommons.unl.edu/sociologyfacpub/121)
Medical science in the early twenty-first century has an impressive capacity to help people live longer and healthier lives, but some of this capacity is unused because people do not seek medical help, do not seek help promptly, or do not complete recommended treatments. This help-seeking gap exists for life-threatening conditions, such as heart disease and cancer, and also for quality-of-life conditions, such as incontinence and infertility. The help-seeking gap contributes to unnecessary morbidity and mortality and is widely regarded as one cause of observed racial and social class disparities in health and mortality (1). As a result, a substantial body of work has developed to explain the process of help-seeking across medical conditions.

Help-seeking theories focus on the individual patient’s decision to seek help, but they do not blame lack of treatment solely on the individual. Rather, such theories place help-seeking efforts in a broad framework that includes structural inequalities in income and health insurance, stereotyping and bias among medical professionals, cultural and communication barriers, as well as the individual’s own social networks, attitudes, and circumstances, all of which might influence the likelihood that an individual can and will pursue treatment. Thus, understanding help-seeking pathways should be an important part of the national effort to confront racial and ethnic disparities in health care (1,2), including disparities in infertility treatment. Our goal in this article is to integrate help-seeking theories, assess the evidence in support of them, and apply them to the case of infertility. Where possible, we illustrate these ideas from a pilot study of infertility help-seeking.

An Integrated Model for Understanding Pathways to Treatment

Our goal is to understand the pathways that lead toward or away from treatment for infertility. In doing so, we draw from general models of help-seeking developed by Andersen (1968) (2), Becker (1974) (3), Pesco-solido and Boyer (1998) (4), and Shaw (1999) (5). These theories were designed to explain well-documented patterns of disparities in treatment seeking across conditions as varied as heart disease, cancer, urinary incontinence, and mental illness. We first outline a general integrated theory and then discuss how it should explain observed disparities in treatment seeking for infertility.

The Help-Seeking Process

The central assumption for theories of help-seeking is that moving from symptoms to medical treatment is a complex process. Although any breakdown is somewhat arbitrary, a simple four-step process includes symptoms, perception of a problem, consideration of alternative responses, and behavioral responses.
In the case of an acute heart attack, we might expect this whole process to take 1.5 minutes, whereby the symptom occurs, a knowledgeable person recognizes it, decides that the need for medical treatment is urgent, and calls 911. Even in this case, however, research shows that people waste considerable time wondering whether it is heartburn and waiting to see whether symptoms will go away (6). In less acute cases, someone might spend weeks or months of uncertainty before concluding that their symptoms really constitute a problem, then another period of months dossing themselves with over-the-counter remedies and talking to their friends before they decide to seek formal medical treatment (7).

Few symptoms for any condition, especially in the early stages, demand urgent medical attention, and individuals and societies engage in processes of social definition that seek to identify the urgency, severity, and source of symptoms (8). Across conditions from HIV to ovarian cancer, misattribution of symptoms is a significant cause of delays in help-seeking (9, 10).

In the case of infertility, the symptom is failure to conceive after a number of months of unprotected intercourse. Because infertility is heralded not by the development of new and undesired symptoms but by the absence of change, perception of a problem is particularly problematic. Conception failure might be attributed to stress, mistiming of intercourse, aging, or normal variation. Our pilot study confirms that recognizing that one has fertility problems is the single most important predictor of help-seeking (11).

Once fertility is perceived as a problem, alternative solutions need to be assessed. These considerations include the need for treatment (i.e., how likely is it that the situation will resolve itself), perception of options (childlessness, medical help, self-care, and adoption), and perception of the benefits of and barriers attached to various options. This “cognitive processing” (5) is critical in all theories of help-seeking. Unless symptoms are so severe (e.g., a public collapse) that others deliver you to treatment providers, treatment seeking requires an active decision to pursue treatment and, in many cases, a substantial degree of determination to identify an appropriate provider and persist until treatment is provided.

In thinking about help-seeking for infertility, as for any medical condition, it is important to recognize that professional medical treatment seeking is only one of the possible behavioral responses. Indeed, for almost all conditions, some sort of self-care precedes professional treatment seeking (12). Others might pursue religious or alternative medical solutions instead of or in addition to medical help-seeking.

Determinants of Help-Seeking
To understand disparities in help-seeking, we need to examine the circumstances that predispose people to perceive a problem, decide that medical help is an appropriate response, and actually seek help. Integrating ideas from a variety of help-seeking theories, we group major explanatory concepts in the categories of social, individual, and temporal cues, enabling conditions, and predisposing conditions. Background variables, including race and ethnicity and socioeconomic status, are expected to work through these explanatory variables.

We preface this review by noting that theorizing about help-seeking has outpaced research. We cite a patchwork of empirical studies that assess the effect of one or two factors on a specific medical condition. Because treatment-seeking processes might very well differ depending on whether the outcome is cancer, HIV, or incontinence, the support that these studies offer for theory must be regarded as tentative. There is even less research on help-seeking processes for infertility itself. Most research on infertility has been confined to clinic populations, by definition help-seekers, with the result that it sheds little light on who is most apt to seek help.

Social Cues. Help-seeking theorists hypothesize that perceiving the absence of conception as a signal of infertility, reaching a positive judgment about the need for, availability of, and efficacy of medical treatment, and actually seeking treatment depend in part on social cues. These include perceived approval for infertility treatment, perceived pressure for children from partners, parents, and community, perceived stigma of infertility, and the experiences and support of friends and family.

A study of women’s help-seeking decisions regarding hysterectomy demonstrates that most women rely on the advice of friends and family and have already decided on appropriate treatment before consulting a doctor (13). Support from others has been found to be a strong predictor of treatment seeking for urinary tract infections (14), mental health problems (15), brain tumors (16), and infertility (17). On the other hand, perceived stigma has been shown to delay treatment seeking for incontinence (18) and HIV (19) and has also been implicated in infertility (20).

Individual Cues. Individual attitudes and circumstances affect the help-seeking process. Generally, the more severe the impact of the condition on daily life, the more likely people are to seek care (21). In the case of infertility, we suggest that the severity of impact might be measured by strength and immediacy of fertility plans, whether one already has children, and the salience of a parent identity. A survey in Malawi confirms that a high ideal number of children is associated with infertility treatment-seeking (22). Thus, we would expect that those who intend children, who feel a sense of urgency about having them, who have had no prior children, and who cannot imagine their lives without children (or without children of a particular gender) are most apt to move quickly to medical help-seeking.

Research on breast cancer and HIV suggests that those who are most distressed about the possibility of cancer are slowest to seek help (19, 23). Applied to infertility, this suggests that those for whom a diagnosis of infertility would be most threatening might delay a visit that might confirm
their worst fears. On the other hand, some research suggests that those who are especially anxious might over-use medical services (24), for example, seeing their physician after only 2 or 3 months of unprotected intercourse.

**Life Course Cues.** Pescosolido (25) has emphasized the need to consider the social contexts in which health decisions are made and the dynamic nature of treatment-seeking trajectories. An unmarried 18-year-old who does not get pregnant after 1 year of unprotected intercourse is more likely to say “thank God” than seek medical attention. Help-seeking is more likely when life course cues—especially age, marriage, and education completion—make childbearing normative and desirable. Thus, we anticipate, faced with the same objective symptoms, that older and married women who have completed their education are more likely to seek medical help for fertility impairment.

**Enabling Conditions.** A major chasm might exist between wanting help and getting help. Theories of help-seeking group the resources that make it possible to get desired help under the rubric of “enabling conditions.” Financial resources, including income and health insurance, are most important (26–28), but resources such as education and social support have also been shown to increase the propensity to seek treatment (29).

**Predisposing Conditions.** Across a wide variety of medical conditions, empirical research has identified a set of conditions that predispose individuals to seek medical help independent of symptom severity. These include comorbidity, having a usual doctor, and health attitudes and beliefs (including knowledge of specific symptoms and their treatment, medical anxiety, and medical locus of control). The importance of each of these elements is supported by scattered empirical research across an array of symptoms.

Those who have a usual doctor and who trust their doctor are more likely to seek medical help than those who use emergency rooms for routine care, who wait at public health clinics, who have to identify a doctor before seeking treatment, or who distrust their doctor (30). In the case of infertility, a regular doctor is more likely to be aware of signs of fertility impairment and raise the issue with a patient who might be reluctant to identify herself as being infertile. Individuals who believe that biomedical solutions are effective are more likely to seek care than those who hold alternative views (29, 31, 32), whereas those who are fearful of medical treatment are less likely to seek care generally (18). Specifically in the case of infertility, medical anxiety (33), pessimism about the results of treatment (34, 33) and high internal medical locus of control (11) have been found to deter treatment seeking.

Finally, those who have had positive prior experiences with medical institutions and their doctor are more likely to seek help than those who have experienced rude, uncaring, or ineffective care (36). We know that minorities have less trust of their doctors (37) and expect racism from their doctors (38). These beliefs have been supported by research establishing that doctors are significantly and substantially more likely to have a variety of negative stereotypes about African American than other patients (39).

**Summary**

Our goal is to provide an integrated conceptual model of help-seeking and to identify the chief variables hypothesized to explain movement from objective biomedical symptoms to actual help-seeking. The explanatory variables are hypothesized to affect help-seeking directly but also to moderate the intervening processes. For example, individuals with health insurance, a usual doctor, and a positive attitude toward medical treatment are likely to be quicker to identify symptoms as being a biomedical problem, more likely to reach a positive assessment of the cost/benefit ratio of treatment seeking, and quicker to move to professional medical care. On the other hand, unmarried women without health insurance or a regular doctor and whose partner does not want children might be slower to wonder whether this is a medical problem, more likely to decide that the costs of medical treatment outweigh the benefits, and more likely to consider non-medical options.

**Explaining Disparities**

Data from the National Survey of Family Growth suggest that approximately half of women with infertility impairments do not seek treatment to resolve impaired fecundity (40) and that treatment seeking is linked to race and ethnicity and social class indicators. Because infertility treatment is expensive, it is tempting to conclude that financial availability of treatment is the key explanatory factor. This rationale is supported by the fact that nations with national health care systems report higher rates of infertility help-seeking than in the United States (e.g., 67% in Finland, 86% in The Netherlands, and 72%-95% in the United Kingdom) (41). Studies in the United States show that income and health insurance are strong predictors of treatment seeking for fertility impairment (40). Because a growing number of states mandate that health insurance cover infertility treatment, overall rates of treatment seeking are likely to rise (42). Major racial disparities in health insurance coverage (11% of non-Hispanic whites, 20% of African Americans, and 33% of Hispanics are without health insurance coverage [43]) are just one reason that such laws are unlikely to reduce racial disparities in treatment seeking (42, 44).

Financial factors are undoubtedly important, yet research on a variety of other medical conditions makes it clear that disparities in health care and health outcome persist after adjustments for income and insurance. For example, African American Medicare beneficiaries are only half as likely as white beneficiaries to get free influenza vaccinations (45). Thus, although income and health insurance are important reasons for health disparities, much of the answer has to be found elsewhere.
The framework we have just outlined suggests that it is also important to consider differentials in the likelihood of perceiving a problem, cognitive appraisals of the alternatives, or in predisposing conditions (e.g., medical anxiety and trust in medical professionals) and social and individual cues. For example, in addition to obvious structural barriers, such as income and health insurance, African American women’s lower use of infertility treatment is probably attributable to factors such as cultural aversion to technological solutions to a holistic health problem, greater aversion to infertility labels and treatments, greater distrust of a medical establishment that has victimized minorities in the past (37, 38), bad experiences with their own doctors (46), or a belief that they will be rejected for treatment.

Such beliefs are often grounded in empirically confirmed reality. Recent research reports that one in five treatment providers refuses treatment to unmarried women (47). Because African American women are much less likely to be married than non-Hispanic white women (e.g., 69% of white women aged 30-34 years were married in 2003, compared with only 37% of black women), some of the racial disparity must rest directly on gate-keeping by providers. For all of these reasons, Molock (1999) (48) suggests that childless African Americans are more apt than other groups to resolve infertility through formal or informal adoption and more likely to seek spiritual solutions.

With a multidisciplinary team, we are currently in the process of gathering data on a national sample of 5,500 women and approximately 2,000 partners, all of whom will be interviewed once in 2005 and again in 2008. This national panel should enable us to identify factors that lead women and couples to recognize and deal with their infertility.

In the meantime, we have explored some of the implications of this model, using pilot data from an institutional review board (IRB)-approved study of 196 midwestern women who had ever experienced fertility barriers (12). This analysis supports the importance of cognitive processes and of such variables as comorbidity and internal health locus of control. Both income and race and ethnicity are significantly related to help-seeking at the bivariate level. The effects of income are partly indirect, and the effects of race and ethnicity are largely indirect. Higher income and majority race and ethnic status are part of a set of individual and life course cues—being married, childless, and trying to conceive after 30 years of age—that are independently important to help-seeking. Together, these variables mean that couples are ready to have children and are monitoring conception. As a result, they are more likely to recognize signs of subfecundity and to seek help.

Materials and Methods

The conceptual framework for explaining health disparities in infertility is part of a larger National Institute of Child Health and Development grant to study infertility pathways and outcomes. We obtained IRB approval for this larger project. None of the authors have a conflict of interest between the statements in this article and other work that they are doing.

Discussion

Seeking medical help for infertility is not a simple mechanical process. Unlike public health issues, such as tuberculosis, there is no social imperative that everyone seeks help. Unlike cancer or high blood pressure, there is no individual imperative to seek treatment to avoid pain or death. Infertility treatment is but one of many behavioral responses to infertility, and we must expect that a sizable minority who experience fertility impairment will not seek treatment at all or will seek only a diagnosis and no treatment. Of these, some will be so ambivalent or even negative about childbearing that they will accept infertility with equanimity. Others will swallow their disappointment without struggling for a medical solution, often—judging from our preliminary findings—accepting this as “God’s will.”

Our concern is with those women and men who want to have children but who do not know of, do not have access to, or do not trust the medical establishment enough to pursue appropriate and effective treatment. In this regard, we are likely to find that infertility disparities closely model disparities that exist in other health outcomes.

These disparities have recently been addressed in a National Academy report (2). The interventions recommended in that report (defragmentation of health care financing and delivery, strengthening doctor-patient relationships, incorporating patient protections, multidisciplinary teams, patient education and empowerment, accountability) will undoubtedly reduce disparities in infertility treatment as well.

We add a further consideration specific to fertility care. We suggest that race-based and class-based ideas (conscious and unconscious) about who deserves to be a mother shape potential patients’ and care providers’ assumptions about who should get treatment. Most obviously, these appear in clinic policies about whether, for example, unmarried women should receive treatment. We recommend that care providers explore their assumptions about who should be mothers and how those assumptions translate into practices. In sum, greater equality of outcomes requires not only reducing the economic barriers to treatment but also addressing broader disparities that shape experiences, expectations, knowledge, and trust.

Acknowledgments

The authors thank David R. Johnson, Ph.D., Laurie Scheuble, Ph.D., Mary Casey Jacob, Ph.D., and Naomi Lacy, Ph.D., members of the team that designed the larger study of which this is a part.
References


