What is the Relationship of Marriage to Physical Health?

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Decades of research suggest that a stable marriage protects adult partners against premature death and illness, and provides children with the best physical health outcomes. The relationship of marriage to better health outcomes continues to be found in the most recent national health surveys and longitudinal studies. These studies indicate married adults live longer and enjoy better physical health than adults who are never married, divorced, separated or widowed.

In fact, these benefits seem to persist even when factors that affect health outcomes, such as health status prior to marriage, income levels and race/ethnicity are taken into account (Johnson et al, 2000; Kaplan & Kronick, 2006; Lillard & Waite, 1995; Wilson & Oswald, 2005; Wood, Goesling & Avellar, 2007). Also research suggests that married couples living in poverty have better physical health compared to their low-income peers who are unmarried, divorced, or widowed (Schoenborn, 2004).

Research also indicates a man or woman’s marital status at age 48 – that is, whether married, divorced, widowed, or never married -- strongly predicts their chances of either surviving to age 65 or dying prematurely. For example, as depicted in the charts below (Waite, 2005), divorced men have only a 65% chance of living to age 65, compared to a 90% chance for married men, and a never-married woman has an 80% chance of living to age 65, compared to a 95% chance for married women (Lillard & Waite, 1995, Waite, 1995).

In terms of incidence of intimate partner violence, a healthy marriage is also a relatively safe place for women compared with other types of partner relationships. Department of Justice statistics show that couples that are married and living together are much less likely to report domestic violence than couples that are living together and not married, or whose marriages are in process of ending or have already broken up and are divorced (Dept. of Justice, 2007).

Studies reviewed by Wood et al in a recent synthesis article show that marriage also benefits the health of children. Children raised to adulthood by married parents live longer, and have better physical health as children and later in life as adults, compared to children raised in other living arrangements (Wood et al, 2007).
Background
It is becoming clearer that it is the quality of the marital relationship, rather than simply being married, that affects health. Having a marriage with relatively low levels of negative interactions is what leads to lifelong cumulative health benefits. A marriage in which there is violence is unhealthy by definition; physical and/or emotional abuses within a marriage are health risks. A truly healthy marriage is physically and emotionally safe for both partners and for their children. (Moore et al, 2004; Stanley et al, 2002). Even without physical conflict, marriages that are high in negative distress and discord carry health hazards by creating a high-stress environment that may increase the likelihood of divorce, which is strongly associated with poorer health outcomes for both men and women (Kiecolt-Glaser & Newton, 2001; Umberson et al, 2006).

It is important to understand the causal relationship that may be involved in marriage’s impact on physical health. Some believe that marriage itself has a protective effect and those who marry will physically benefit and be protected from illness. Others believe that healthier people (i.e., those that engage in fewer risky behaviors, are not depressed, and experience no incidence of intimate partner violence) are more likely to be selected as marriage partners. The research consensus is that the health benefits of marriage are a combination of selection and protection effects. Most of the research studies on which this fact sheet relies control for prior health status so that results are not influenced by confounding factors. In fact, studies on the health status of young adults prior to their first marriage demonstrate that selection effects explains only some of their lifelong health benefits and highlight the consideration of protective effects in understanding their better physical health status (Goldman, 2001; Wood et al, 2007).

This fact sheet focuses on the increasing body of evidence on the protective effects of healthy, higher-quality marriages as well as on the health hazards of lower-quality marriages, especially as adults grow older. To this end, this fact sheet will present research findings on the relationship between marriage and physical health for various populations across the life span.

Children of Married Parents; Longer & Healthier Lives
Children living with two biological parents continue to be healthier compared to children growing up in other family arrangements (e.g., step-parent, single mother, grandparents), regardless of income levels (Bramlett, & Bloomberg, 2003). When these children reach adulthood, surveys show that they will have better physical health and a longer lifespan (Wood et al, 2007).

It is well-known that divorce can affect children’s academic, social and psychological well-being, and can lead to greater incidence of risky behaviors that will affect their health.
lead to greater incidence of risky behaviors that will affect their health (Amato, 2001, Doherty & Needle, 1991; Hoffman & Johnson, 1998). If we look specifically at the health outcomes, children whose parents divorced before they were 17 grow up to have shorter a lifespan (for males) and more acute and chronic health conditions (for both males and females), compared to children whose parents remain married (Dawson, D.A., 1991; Maier & Lachman, 2000). For example, a child’s chance of being diagnosed with asthma is more likely if parents are unmarried and not living together, after controlling for income levels. The incidence of emergency hospital visits for asthma attacks increases in direct proportion with more tenuous and distant parent relationships, i.e., from married to cohabiting to not living together (Harknett, 2005). Additionally, research supports that marital discord and conflict between parents is a better predictor of illness later in life for children than the marital status of the parents (Troxel & Matthews, 2003). Interestingly, research has found that children of distressed, highly negative couples have higher levels of stress-related hormones in their system, which is a marker for the presence of chronic physiological stress (Gottman & Katz, 1989).

When women marry, they also reduce their risk of alcohol abuse (Horwitz et al, 1996, Wilson & Oswald, 2005). Finally, studies show that when young adults marry, they consistently report immediate reductions in depressive symptoms, which are known risk factors for physical health problems later in life (Wood et al, 2007).

Longevity and Health Benefits of Getting Married
The couple who marries and stays married will increase their longevity and reduce their risk of chronic illness later in life. However, the effects of marriage on health tend to differ for men and women.

Men, in general, physically benefit from the status of being married. Their health status improves, negative physical symptoms decrease, and positive behaviors increase, for the most part, when they get married, compared to their still-unmarried peers. Specifically, one recent study of low-income unmarried parents found that fathers who married their partners in the year following the birth of their child were healthier (based on the global self-assessment of health) than fathers choosing to remain single (Meadows, 2007). The only exception seems to include recent, increasing trends among married men of being overweight and obese (Schoenborn, 2004). Research indicates that any ‘disruption’ in marital history shortens the lifespan significantly more for men than for women as the breaking the attachment to their spouse takes more of a physical toll (Lillard & Waite, 1995; Waite, 1995; Umberson et al, 2006). Studies show that men who are divorced experience health risks equal to smoking a pack of cigarettes a day (Moskowitz, 1975).
While men’s health shows immediate benefits from just being married, the health advantages for women increase with the duration of the marriage. For each year of marriage, a woman’s risk of dying prematurely decreases (Lillard & Waite, 1995). Women’s health, generally, appears to be more susceptible to marital discord than men’s health. For women, poor relationship quality seems to be associated with increased risk of premature mortality and an increased risk of heart disease (Umberson & Williams, 2004; Coyne et al, 2001; Gallo, Troxel & Matthews, 2003; Kiecolt & Glaser, 2001).

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**Ethnicity.** Once income levels have been adjusted, the protective benefits of marriage are as significant for African-Americans couples as for White couples (Lillard & Waite, 1995; Schoenborn, 2004;). Research that examines the effects of marital status on health across race finds no differences in health outcomes for African Americans who choose to marry (Johnson et al, 2000). The effects of marriage, divorce, widowhood are the same across major ethnic groups, including African-Americans. Some noteworthy findings include:

- The existing higher mortality risk for African-Americans identified by major health surveys (Kaplan & Kronick, 2005) may be in part due to lower rates of marriage for African-Americans, as approximately only 38% of African Americans are married compared to 60% of Whites (ACF Healthy Marriage Initiative, 2008).
- The higher percentage of African-American men raised in families without two biological parents may account for at least part of the stark gap in longevity between African American and White men as 35% of African-American children live with both parents compared to 75% White children (75%) (Warner & Haywood, 2006).

**Financial.** The financial stability that comes with marriage also seems to have a positive impact on health (Waite & Gallagher, 2000). Marriage is well-known to provide financial benefits, and these financial advantages seem to directly influence physical health by providing greater access to health care and other social services. Research suggests that the greater access to health and other services appears to be especially important in explaining marriage’s impact on increasing women’s health benefits (Waite & Gallagher, 2000). For both men and women, studies show that marriage is associated with increased access to private health insurance, which leads to higher quality of care, reduced average hospital stays, and access to beneficial nursing home care near the end of life (Wood et al, 2007).

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**Low-Income Couples.** Research indicates that marriage protects health of low-income couples just as it does for those with higher incomes. In a recent national survey, low-income married couples reported to be healthier on all measures such as: health status, reporting of health conditions like back pain, headaches, serious psychological distresss, and
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reported lower levels of limitations in daily living activities and risk behaviors such as smoking and exercise -- than their never-married or divorced low-income peers (Schoenborn, 2004).

As We Grow Older

As married partners reach middle age, it appears that the effects of marriage on adult health become more powerful. Growing older increases the psychological importance of having and engaging in intimate relationships, and this in turn amplifies the potential stress the elderly may experience from any negative interactions (Umberson et al, 2006).

Studies show that very elderly persons who are still married are likely to be healthier. That is, 76% report being in good or excellent health, compared to peers who are widowed, divorced and living with a partner, or never married (Schoenborn, 2004). Widowed adults are somewhat more likely to be in fair or poor health (28%) (Schoenborn, 2004). Also, marriage appears to protect the elderly from the onset of physical limitations in carrying out their daily living activities. For example, 3 times as many widowed adults over 65 reported having limitations in daily activities, compared to their married peers (Schoenborn, 2004). Research found that physical limitations for divorced or never-married elderly were somewhere in between the married and widowed rates (Schoenborn, 2004; Prigerson et al, 1999, 2000.)

Two large representative studies of middle-aged and older married adults (50+) found that those who reported higher levels of negative spousal behaviors, such as experiencing criticism, arguments, demands, had poorer health over time, indicated by their general health status, list of physical symptoms, presence of specific chronic health problems, or report of limitations in activities of daily living (ADLs) (Bookwala, 2005; Umberson et al, 2006). One study using data from the National Survey of Midlife Development in the U.S. (MIDUS) found that the association of negative marital functioning with poorer health outcomes was as strong for older men as it was for older women (Bookwala 2005). Interestingly, the study also found that negative spousal behaviors were only associated with changes in general health status and no association could be found with the frequency of positive, caring, or helpful behaviors (i.e., “Does your spouse understand the way you feel, can he/she be relied on for help, etc.”) (Bookwala 2005). Studies show that over an 8-year period, the relationship between negative marital quality and health declines was strongest for the oldest subjects aged i.e., 70+ years (Umberson et al., 2006). Younger adults did not report declines in health even when reporting negative marital quality, thus underscoring the importance of marital quality and its impact on physical health in growing older (Umberson et al, 2006).

The effects of negative marital quality on health have been captured in studies of heart disease. The following presents some noteworthy findings from these research studies:

- Overall, married men and women have a lower risk for death from heart attacks (Johnson et al. 2000), compared to other marital status categories, and married couples enjoy a better chance
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The Risks of Ending a Marriage

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- Women over the age of 50 may have a higher risk of developing cardiovascular disease than men if they are divorced, remarried, or widowed. Between the ages 50 and 60, the risk of cardiovascular disease for women was about 60 percent higher for divorced women and 30 percent higher for widows, compared to married women (Zhang & Hayward, 2006).

- A Swedish study showed that marital stress for women increased the risk of having a recurrence of a cardiovascular event such as angina, a heart attack, surgery for blocked arteries, or death. Work stress was not associated with an increased reoccurrence for women, unlike the known outcome of work stress on men. The increased risk of reoccurrence persisted after adjusting for other health factors and severity of initial diagnosis (Orth-Gormer et al, 2000).

- Higher marital relationship quality predicted long-term survival (i.e., defined as over 4 years) in a study of 189 heart disease patients, independent of other known risk factors including initial severity of the diagnosis. The most seriously ill patients in satisfied, low-conflict marriages lived significantly longer than much healthier patients in less-satisfying marriages (Coyne et al, 2001). For these seriously ill patients, the quality of their marital relationships continued to predict prolonged survival for up to 8 years for the women in this study, but not for the men (Rorhbaugh et al, 2006).

The Risks of Ending a Marriage

One important factor explaining the association of marriage with longevity and better physical health is the high health costs that come with divorce. In this manner, divorce is not simply the loss of marital status and its positive health benefits. In most cases, it also involves both acute and chronic emotional and physical stress that comes with a traumatic disruption and the breaking of the primary adult attachment bond (Waite, 1995; Kiecolt-Glaser & Newton, 2001). Research continues to show that divorce carries significant risks of illness and premature death for both partners, but especially for men (Lillard & Waite, 1995; Williams & Umberson, 2004). Men and women who have divorced have a greater likelihood of developing cardiovascular disease than adults who never marry or who remain continuously married with-
ried peers over a ten-year period, found that women who divorced reported more symptoms of depression and did not report any significant changes in physical health in the first 3 years after separating. However, within 10 years after their divorce, the same divorced women reported significantly more physical health symptoms than their married peers (Lorenz & Wickrama, 2006).

Domestic violence experts agree that the process of separating or divorcing when there has been a history of physical or emotional violence is one of the most dangerous situations for a woman to be in. (This does not imply that women should stay in an unhealthy marriage to avoid harm, but rather that women who have decided to leave a violent relationship need to take extra precautions to assure their and their children’s safety when doing so.) The Department of Justice 2007 data show that non-fatal physical assaults are much higher for separated or divorced women than for those who are either married or unmarried. Clinical and laboratory studies are now beginning to identify some of the biological pathways by which marital interactions impact the physiological systems associated with physical health.

Pathways to Health in Marriage
How does a healthy, safe marriage – one which partners rate as high in quality and low in negativity – specifically protect the health of couples? Some answers are obvious. Married persons tend to monitor each other’s health and risk behaviors. While men appear to benefit particularly from the health monitoring behaviors and support of their wives, women do not seem to receive the same benefits (Waite & Gallagher, 2000). Research on compliance has long supported the value of involving family members, particularly spouses, in ensuring compliance with medical regimens. Interestingly, coaching spouses to reduce negative interactions – specifically criticism and nagging—was found to be effective in increasing compliance, while coaching spouses to increase positive, supportive behaviors was not (Campbell, 2003). Many longitudinal studies are documenting the relationship of marital quality and health over time. In a 3-year community study of roughly 400 married couples, reported declines in marital quality (e.g., reported satisfaction, happiness & commitment) were associated with increased symptoms of physical illness later in life for both men and women. In contrast, increases in marital quality was associated with improvements in physical health later in life, even when other factors influencing health like education, income, income changes, and job difficulties were taken into account (Wickrama et al, 1997).

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- Healthy women who reported being in highly satisfying relationships developed significantly fewer symptoms of cardiovascular disease over
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Maintaining physical contact with a spouse while under stressful experimental conditions lowered blood pressure and heart rate, and increased the hormone oxytocin, which prevents the body’s stress responses from negatively influencing the cardiovascular and endocrine systems. (Grewen et al, 2003, 2005a, 2005b; Light et al, 2005).

• Women holding their husband’s hands while undergoing painful electric shocks experienced less pain, and showed decreased activity in areas of their brain responsible for directing the body’s stress response versus other women undergoing the same test while holding a stranger’s hand or no one’s hand (Coan et al, 2006).

• In clinical experiments, when a couple in a healthy, high quality marriage were told to argue about a real-life problem, their supportive and constructive behaviors during the argument seemed to lower both partners’ stress hormone levels, especially the wife’s. The couples that showed the least negativity when having a marital argument had the best immune system responses (Kiecolt-Glaser et al, 1997; Robles & Kiecolt-Glaser, 2003).

Conclusion

Research findings on marriage are consistent with the extensive literature on the direct health consequences of social support and social isolation (Uchino et al, 1992, 1996). For many, a healthy marriage is the most intimate and enduring social network, providing the strongest and most frequent opportunity for social and emotional support. Also, a healthy
marriage has been found to be the best protection for children’s health and well-being. The research shows that marriage can have both negative and positive effects, depending on the quality of marital relationship. A recent national representative survey of adults has demonstrated that an unhappy marriage eliminates the health benefit of marriage (Brim et al, 2003). The research supports that a good-enough, healthy marriage, one that is low in negativity will provide cumulative, lifelong protection against chronic illness and premature death for both men and women as well as greatly increasing the chances that children will grow up healthy. And these benefits seem to only increase as couples grow old together.

Thank you to Jana J. Staton, Ph.D., LCPC for contributing to this tip sheet. Dr. Staton has over 20 years experience as a Certified Marriage and Family Therapist, researcher and educator and currently directs a marriage education program.

For More Information
Many correlations of marriage and health fail to account for other, powerful factors which also influence health outcomes, especially partner selection, income levels and education. This fact sheet has was informed by several comprehensive summaries based on the most reliable and current research:


Dawson, D.A. 1991. Family structure and children’s
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Kiecolt-Glaser, J.K., Glaser, R., Caccioppo, J.T., MacCallum, R.C., Snydersmith, M., Kim, C.,
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