Social capital and risk and protective behaviors: a global health perspective

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Abstract: Social capital and health research has emerged as a focus of contemporary behavioral epidemiology, while intervention research is seeking more effective measures to increase health protective behaviors and decrease health-risk behaviors. In this review we explored current literature on social capital and health outcomes at the micro-, mesa-, and macro-levels with a particular emphasis on research that incorporates a social capital framework, and adolescent and young adult engagement in risk behaviors. These data indicate that across a broad range of socio-cultural and economic contexts, social capital can affect individuals’ risk for negative health outcomes and their engagement in risk behaviors. Further research is needed which should focus on differentiating and measuring positive and negative social capital within both mainstream and alternative social networks, assessing how social constructions of gender, ethnicity, and race – within specific cultural contexts – mediate the relationship between social capital and risk and/or protective behaviors. This new research should integrate the existing research within historical socioeconomic and political conditions. In addition, social capital scales need to be developed to be both culturally and developmentally appropriate for use with adolescents living in a diversity of settings. Despite the proliferation of social capital research, the concept remains underutilized in both assessment and intervention development for adolescents’ and young adults’ engagement in risk behaviors and their associated short- and long-term poor health outcomes.

Keywords: social capital, global health, risk behaviors

Social capital: an overview

Since the mid-1990s, social capital research has increasingly become a part of the academic landscape, crossing a broad range of disciplines including sociology, anthropology, economics, political science, criminology, and public health.1 Early theoretical and empirical work regarding the relationships between society and individuals and the roles of social networks at individual, community and national levels, eg, Durkheim,2 are considered precursors to the concept of social capital. In the 1980s, the writings of Bourdieu1 and Coleman3 systematically defined the term and fueled academic interest in the application of the concept. Social capital as defined by Bourdieu and Wacquant4 (p119) is “the sum of the resources, actual or virtual, that accrue to an individual or a group by virtue of possessing a desirable network of more or less institutionalized relationships of mutual acquaintance and recognition” [cited in Halpern 2005]. Social capital is conceptualized and measured in terms of social networks, shared norms, objectives and sanctions, and mutual trust. Social capital facilitates individual and community actions but an individual’s social capital is tied to his/her membership within a group.6
Social capital can be further divided into three primary forms of relationships. Two of these forms of relationships (bonding and bridging) are more or less ‘horizontal’ – connecting people from similar economic backgrounds. As described by Putnam (p22), “Some forms of capital are, by choice or necessity, inward looking and tend to reinforce exclusive identities and homogeneous groups (bonding) … other networks are outward looking and encompass people across diverse social cleavages (bridging) …” The third type of relationship is ‘linking social capital’ which is defined by Szreter and Woolcock (p655) as “… norms of respect and networks of trusting relationships between people who are interacting across explicit formal or institutionalized power or authority in society.” What distinguishes social capital from individual social networks is the integrated yet ‘functional equivalence’ of multiple levels of analysis – micro-level (individual), meso-level (community/group), and macro-level (national).1 These integrated multi-level components are one of the major challenges in social capital research in terms of disintegrating the effects of individual social networks from the effects within the wider community.

Social capital can be used for ‘pro-social’ and ‘anti-social’ activities.6 Social capital in terms of trust and reciprocity can be either inclusive or exclusive.6 This has been evident most often in the field of criminology, where negative social capital (networks with shared norms in contradiction to mainstream society) can contribute to an individual’s engagement in illegal activities, as well as an individual’s isolation from broader familial, peer, and other social connections. For adolescents, such negative social capital can include engagement in peer groups where alcohol and/or drug use is routinely a part of socialization activities. At a more extreme level, homeless youth or those youth who are part of gangs may derive significant social and economic support through alternative bonding networks.9

In this paper, we want to explore current literature on the relationship between social capital and health outcomes with an emphasis toward explicating the potential role of social capital in adolescents’ and young adults’ engagement in risky behaviors, and their increased likelihood of negative health outcomes.

**Social capital and health**

There is extensive literature that focuses on social capital and its relationship to the individual’s and the population’s health.10–12 In a study of 45 countries, good self-reported health ratings were positively associated with greater social capital and negatively associated with income inequality across a diversity of countries.13 At the individual or micro-level, effects of social capital on adolescents’ and young adults’ health outcomes are both short- and long-term. In relation to the former, adolescents are at a stage of development whereby they are becoming increasingly dependent on family and increasingly involved in the establishment of peer networks. These peer networks can have significant sway over behaviors and can result in both positive and negative health outcomes. In the long-term, adolescents’ familial and peer networks can potentially influence future establishment of social networks and resulting social capital, which can affect health outcomes later in life.14 Previous positive supportive relationships, eg, parent–child, are also considered a contributor to better lifelong health.1,15 A key aspect of this micro-level social capital is the ‘positive’ nature of the relationships – as close relationships with abusive, emotionally impaired individuals can result in negative health outcomes.16 In Cattell’s17 ethnographic study in East London, residents in ‘socially excluded’ networks (small number of groups with few members), such as women with abusive or controlling partners and young single mothers, were more likely to express feelings associated with negative health outcomes.

At the meso-level, the broader question is whether or not communities, spaces, neighborhoods, and organizations affect health independent of an individual’s support network. More specifically, is there an additive effect by which meso-level social capital can mediate micro-level social networks to decrease likelihood of negative health outcomes and/or increase likelihood of positive outcomes? One area of research has looked at “group density effect”, which suggests that ethnic groups living together within an enclave have better health outcomes than those individuals from the same ethnic group living within a mixed ethnic neighborhood.14,18 In addition, migration out of ethnic neighborhoods and/or gentrification can create disintegration of important social networks and associated capital in urban communities.19 In a study of Hispanic and non-Hispanic adolescents, self-reported perceived health outcomes among Hispanic respondents were more closely associated with variations in reported social capital. This greater tie between social capital and perceived health among the Hispanic youth may be related to general higher level of local institutional self-containment with extended family, community businesses, etc. Within this neighborhood context, non-engagement or exclusion from networks may have a more significant effect on residents.14

While not all research on group density effect has pointed to positive health outcomes, these ethnic neighborhoods
potentially provide a level of protection against stress, including stigmatization and racism. In Carol Stack’s work in a low-income black community in the 1970s, she describes a network of actual and fictional kin relationships which provided social, emotional, and economic support. These concepts of ‘group density effect’ and community-level networks are in contrast and, in some instances, in response to the significant body of work grounded in a ‘culture of poverty’ or ‘underclass’ perspective that emphasizes links between poverty and feelings of marginality and dependence.21,22

At the macro-level of social capital, the primary question is whether individuals residing in certain regions or nations experience better health outcomes and greater well-being beyond what would be anticipated from individuals’ positive social networks. While it is generally assumed that a link exists between economic prosperity and well-being, Helliwell23 describes ‘negative externality’, in which higher income at the aggregate level results in lower life-satisfaction. In a study of 30 districts in Saskatchewan, Canada, levels of mortality at the population level were negatively associated with social capital and positively associated with income inequality – a potential indicator of broader social inequalities which could affect social capital development.24 In a preliminary study in the US, lower levels of social capital were a predictor for gonorrhea and syphilis, and social capital and income inequality predictors for AIDS case rates.25

Lower life-satisfaction, within a context of social inequalities, could be relevant to the health outcomes of young adult rural Chinese migrant workers. In a transitional economy such as China’s, those outside of the urban spheres of wealth and consumption experience real and perceived inequalities, internalized and externalized stigma, and high stress trying to meet basic needs for self and family.27 As in Wilkinson’s work on social capital and inequality in transitional economies, those living in the lower socioeconomic groups in an increasingly hierarchical society will experience levels of anxiety that ultimately affect health outcomes.28 Increasing non-egalitarian distribution of resources may also precipitate greater negativity and mistrust between groups, decreasing likelihood of the development of the bridging and linking types of social capital.

**Risk and protective behaviors and social capital**

Health risk can be defined as a disease precursor associated with a higher-than-average morbidity or mortality rate. These risks can be a product of an individual’s biology/genetics, behaviors, or environment. In terms of behavioral risks, individuals or groups might be perceived as at risk of engaging in a particular behavior or, as a result of already engaging in a behavior, at risk for a negative health outcome.30 ‘Problem behaviors’ are those actions which are undesirable by social and/or legal norms of conventional society and legal authorities and elicit some form of social control. Explanatory variables for engagement in these behaviors include the environmental system – social controls (sanctions), role models, and social support, and personality systems – values, expectations, beliefs, attitudes (social norms).30 While certain sanctioned behaviors are more or less universal, eg, stealing, many are culturally and socially bound. Thus, adolescents’ or young adults’ engagement in a pre-marital sexual relationship might be considered immoral and stigmatizing,31 or even illegal in some socio-cultural contexts.32 However, in other socio-cultural contexts only certain forms of pre-marital sexual relationships may be considered problematic, eg, transactional sexual relationships. Behaviors that are socially and legally sanctioned in one social group may result in stigmatization and discrimination in relation to an individual’s or a group’s behaviors (and therefore their health outcomes) – most notably HIV (Human Immunodeficiency Virus), but also certain cancers, obesity-related diseases, and historically and in low-resource regions, diseases associated with poverty and poor sanitation.33–36

Social capital research and risk behaviors are particularly salient in relation to adolescent health. Adolescence is a period of socialization through experimentation and risk-taking. Tobacco use among adolescents is tied to similar behaviors within peer networks with a high degree of homogeneity of cigarette smoking.37 Alcohol use and abuse during mid- and late-adolescence is associated with negative neurological and cognitive development, but also with positive social changes and life transitions, eg, entering university.38,39 which is accompanied by the establishment of new peer networks. Globally, sexual initiation occurs for most individuals during adolescent years.40 Sexually transmitted infections including HIV/AIDS (acquired immunodeficiency syndrome) disproportionately affect adolescents and emerging adults.41 In a study of 14- to 19-year-old females in the US, 37.7% of sexually active participants had a sexually transmitted infection (human papillomavirus, gonorrhea, chlamydia, C trachomatis infection and/or herpes simplex virus type 2).42 Adolescent vulnerability to sexually transmitted infections has been linked to sexual networks,43 which may also provide other forms of social and economic support. Adolescent women in poverty and with limited access to resources can become involved in transactional sex through familial and peer social networks.44
In terms of social capital research, there are several issues of importance related to conceptualization of health risk. The distinction of being at risk for a behavior or at risk for a particular disease affects the framework for research and analysis – the former requires social capital to be viewed as a mediator for primary prevention and is associated with notions of social norms and sanctions. In many instances this approach of social capital and primary prevention may be more closely aligned to existing social capital research in the field of criminology and deviant behaviors, especially in relation to engagement (or risk of engagement) in activities such as illegal drug use.

The latter is better conceptualized as secondary prevention or, practically, access to treatment and other health resources. Social capital can also be associated with disease severity and in some instances research may be more concerned with biological responses, eg, stress, anxiety, the consequences of these responses on disease vulnerability or severity, and the potential mediating effects of social capital.

To further consider the role of both negative, (or alternative) and positive social capital in relation to health risk behavior, we want to frame potential mechanisms at the micro-, mesa-, and macro-level. These mechanisms should be considered as integrative, and perhaps in some instances, contradictory, and in all instances need to be contextualized within extant and historical socio-cultural and political-economic conditions. (Halpern1 [p119] notes: “The use of the term ‘negative social capital’ … is problematic in a wider context as it rests on a post hoc judgment from a particular point of view as to what is negative.” We will therefore employ the term ‘alternative’ social network to describe those networks which might exist outside the larger mainstream social structures and networks. Such alternative networks can apply to groups engaged in illegal activities, eg, gangs, but could also apply to social or political activist groups, or those engaged in non-biomedical health systems.)

As Table 1 shows, at the micro-level alternative bonding networks can exist among a group of peers engaged in risk behaviors. This mechanism draws from research in criminology in which offenders associate with one another in an alternative social network with its own norms and sanctions.9 In terms of risk behavior however, “alternative” networks may vary based on internal and external factors. Research among IDUs suggests that social network density and size, perceptions of risk, as well as external stigmatization, economic deprivation, and isolation from mainstream networks and institutions may reinforce engagement in HIV risk behaviors.19,45,46 From a multi-method study in Brooklyn, Friedman et al17 present data which indicates that despite low levels of trust, low-income residents, including drug users and dealers, utilize social and communication networks to reduce risk of HIV infection. These mechanisms include kin-networks whereby individuals learn about the negative consequences of risk behaviors from the experiences of family members, negotiating space between neighborhood residents and those engaged in the drug trade (users and dealers), and using the encouragement of others within social networks to protect themselves.

Social capital and engagement in risk behaviors can also be part of mainstream networks of peers such as alcohol use and sexual risk behavior among men. While extensive literature exists regarding social norms and alcohol consumption,

| Table 1 Overview of micro-level, meso-level, and macro-level components of social capital in relation to engagement in risk and protective behaviors |
|---|---|
| **Risk** | **Protective** |
| **Micro-level** | Bonding social capital in alternative (deviant) groups | Bonding social capital in mainstream groups with strong social norms against risk behavior, or for engagement in protective behaviors |
| | Bonding social capital in mainstream groups with strong social norms for risk behavior (eg, alcohol consumption) | Bridging and linking social capital between groups with resources (eg, access to health care, social services, education) |
| | Insular communities – strong bonding social capital, but little bridging/linking social capital | Communities with greater bridging/linking social capital to resources |
| | Non-egalitarian societies including transitional countries with increasingly disparity between income groups | Stable residency patterns and historical connections (work, socialization) |
| | Nations/societies with historically-based ethnic/tribal conflicts and marginalization and discrimination | Egalitarian societies with accessibility across socioeconomic groups to health, social, and economic opportunities |
| | Nations/societies with high levels of corruption and low levels of political-economic transparency | |
In Vietnam, as in other areas in Asia, men drink in social group settings with peers and colleagues, where there are implicit expectations about amounts of alcohol to be consumed and, in some cases, post-drinking engagement with sex workers. Alcohol consumption is a part of the Vietnamese social construction of masculinity, so “a man without alcohol is like a sail without wind”. These drinking groups of peers and/or colleagues are important networks for men in terms of work and access to resources. Establishment of these patterns of male peer and collegial drinking are established during late adolescence and early adulthood.

Bonding networks within social mainstream groups and organizations can potentially decrease engagement in risk behaviors – however, the positive or negative effects of participation in mainstream network organizations are complex and can lead to seemingly contradictory outcomes. Bartkowski and Xu studied US adolescents’ use of alcohol, marijuana, and other illicit drugs and its association with their participation in religious and civic/secular organizations. The findings indicate that engagement in religious and civic groups (e.g., attendance at services) decreased likelihood of drug use. However, in terms of religious affiliation, internalization of norms did not affect drug use, and association with certain denominations, e.g., Catholic, liberal and moderate Protestant increased alcohol consumption.

In a qualitative study of young immigrant Filipino gay men living with HIV/AIDS, Takahashi and Magalong describe ‘disruptive social capital’ whereby engagement with mainstream and alternative social groups can both lead to outcomes which increase or decrease health and well-being. He states that ‘disruptive social capital’ focuses on the instabilities and disruptions in the lives of marginalized populations. The Filipino men prior to their HIV diagnosis had two social networks – their mainstream support group of friends and family who were primarily unaware of their sexual identity and their “underground” venue-based network of other gay men. After diagnosis with HIV, the men’s experiences varied with some finding support among members of their mainstream network of family and friends, while others experienced stigmatization and isolation. Simultaneously, support from members of their “underground” network both led some men to engage in higher risk behaviors (drug use) while for others the support enabled the men to decrease engagement in risk behaviors.

Research in a South African mining community revealed that young men and women in sports clubs experienced lower prevalence of HIV infection. However, men participating in “voluntary savings clubs” which included social festivals had higher prevalence of HIV infection than those men not participating, and women within these same clubs reported more casual partners. Another study of young women in Zimbabwe indicated that engagement in social groups decreased risk of HIV and increased safer behavior. However, this data also suggests participants’ perceptions of group performance and purpose, and participants’ education level affected level of protection. The research found that young women participating in “voluntary savings clubs” and those involved in political party organizations were engaged in less protective behavior, similar to the results found in South Africa.

Research with 14–35-year-old residents in 750 households in eight villages in South Africa utilized two measurements of social capital and association with HIV risk. Cognitive social capital included perceptions of levels of reciprocity and community support, perceived community solidarity during crisis, and level of participation in collective actions; structural social capital included respondents’ group membership and level and intensity of engagement. Male respondents from households with higher cognitive social capital had lower prevalence of HIV, were more likely to report condom use, and were better able to communicate about sexual issues with household members. Higher levels of both cognitive and structural social capital among female respondents improved psychosocial functioning, including communication. While female respondents with higher levels of structural social capital were more likely to report condom use, they had a higher prevalence of HIV.

At the meso-level, characteristics of the community and the individuals’ engagement with family and friends are associated with health risks through complex mechanisms that are strongly associated with the historical and the extant contexts of life and work within the communities. Poverty and low-resource neighborhoods have long been linked to increasing engagement in risk behaviors as well as in ‘environmental’ risks, which affect residents’ morbidity and mortality. Cattell’s ethnographic research in two communities in East London showed a typology of networks based on forms and strengths of bonding, bridging, and linking relationships: (1) social exclusive or truncated; (2) homogenous; (3) traditional; (4) heterogeneous; and (5) solidarity. While the latter two types (heterogeneous...
and solidarity) include varying degrees of strength of bonding relationships, they are also inclusive of bridging and/or linking networks that provide connections for those individuals/groups outside of the immediate neighborhood. Both the homogeneous and traditional are strong bonding networks, which provide social support within the socio-cultural and economic confines of the East London communities. These insular networks develop within contexts of history, work opportunities, and local resources – but they can be exclusionary, resulting in limited access to linking networks to external social, health, and economic resources. Cattell’s findings echo Stack’s\textsuperscript{59} (p124–125) findings in an urban black low-resource community in the US.

“Within domestic networks, women and men maintain strong loyalties to their kin, and kin exert internal sanctions upon one another to further strengthen the bond. Attempted social mobility away from the kin network of exchanges and obligations, by means of marriage or employment, involves a precarious risk in contrast to the asylum gained through generosity and exchange. Thus survival demands the sacrifice of upward mobility and geographic movement …”

Caughy et al\textsuperscript{58} suggest that neighborhood-level wealth is a significant factor in the health benefits of bonding networks. In a study of black communities in Baltimore City, parents with young children in wealthier neighborhoods who had less contact with neighbors experienced higher levels of anxiety and depression; those in poorer neighborhoods with less contact experienced lower levels of anxiety and depression. Research in the Netherlands indicates a strong relationship between residential instability, social cohesion and trust among adults and children, and general health outcomes. The data indicates residential instability is not related to informal social control of, for example, children’s behaviors.\textsuperscript{59} The interrelated factors in low-resource communities of neighborhood longevity, residential stability, and population homogeneity are salient to development of more inward-focused bonding networks versus outward-focused bridging and linking networks.

Of particular interest to research on health risk and social capital are displaced communities of refugees and internal and external migrants. Research suggests rural-to-urban migrants in China engage in health risk behaviors (alcohol abuse, engagement in transactional sexual relations), and experience social stigma and psychological distress.\textsuperscript{60–62} A significant source of stress among migrant workers is reported to be their interactions with urban residents. During qualitative interviews, rural migrants describe verbal and non-verbal assaults from individual urban dwellers as well as urban institutions, eg, media. These rural migrants are not only unable to build supportive social networks and reconstruct social capital in the cities where they live and work, but they are also faced with day-to-day experiences of discrimination, mistrust, and stigma. These migrant workers live in large neighborhoods that are socially and physically isolated. Within these neighborhoods, they may have a reprieve from the negativity which confronts them in their interactions with urban residents and an opportunity to develop migrant-to-migrant networks. However, the migrant communities are populated by transient individuals who remain emotionally and socially tied to their original villages. These migrant networks and the protection afforded within these neighborhoods are limited in terms of rural migrants’ access to information, social and health resources, and economic opportunities.\textsuperscript{27} From a social capital perspective, migrant workers have bonding social capital within the urban migrant enclaves and with peers and kin in their home villages but lack bridging and linking social capital with members of urban-based groups and institutions.

At a macro-level, historical contexts of inequalities are often not acknowledged or accounted for in social capital research. Thus colonial legacies of “divide and rule”, which can be maintained by elite rulers in post-colonial countries, can have profound effects on access to resources which are tied to one’s ethnic, tribal, and/or residential area.\textsuperscript{63} Tribalization can lead to strong exclusionary bonding social networks, with some groups having bridging/linking social capital to economic, political, and social sources of wealth, while other groups are marginalized. Furthermore, transparency (or lack thereof) of governmental resource distribution further confounds issues of social cohesion and trust within and between groups. Within societies or nations with unequal distribution of resources, adolescents and young adults in marginalized populations experience less bridging and linking social capital, greater likelihood of engagement in risk behaviors, and associated poorer health outcomes.

**Measurement of social capital**

Despite the great potential to advance health and behavior research through social capital research, the lack of reliable and valid instruments for social capital measurement presents a significant barrier.\textsuperscript{57} As we have summarized in the first section of the paper, much work has been done to conceptually define social capital. Several measurement instruments have been reported for quantitative research, but the differences in the definition of social capital and the settings for testing these instruments limit their use. In order to advance research
on the mediating effects of social capital on adolescent and young adult engagement in risk behaviors, there is a need to continue to refine the translation and quantification of social capital concepts.

Large-scale survey studies on social capital and population health are often based on one or two questions, tapping into social participation and trust as a proxy for social capital in general. Given the complexities of both alternative and positive social capital, adolescent and young adult risk behavior and health outcomes, more comprehensive, culturally, and developmentally appropriate instruments are required. The “Adapted Social Capital Assessment Tool” (ASCAT) developed by a team of researchers from the World Bank and developmentally appropriate instruments are required. The assessment’s strengths include being relatively short (nine items) and therefore useful for large scale studies, and having been tested in low- and middle-income countries including Ethiopia, India, Peru, and Vietnam. This instrument however has not been adequately adapted for other areas, and respondents experience difficulties understanding such generic groups as “trade union”, “community association”, “credit/funeral group” that are not salient in all cultural contexts.

In our own work, to facilitate research on social capital, risk behaviors, and health outcomes, we have developed an instrument “Personal Social Capital Scale” (PSCS). We operationally defined social capital as “the sum of durable, trustworthy, reciprocal, and resource-rich (wealth, education, social status, and political power) network connections that are used as an asset to empower a society and its members” (p306). The 10-item scale covers bonding and bridging social capital. The bonding sub-scale items include six types of connections (family members, relatives, neighbors, friends, co-workers, and country fellows/old classmates); the bridging sub-scale includes items regarding governmental, political, social–economic, cultural, recreational, and leisure groups and organizations. The instrument has shown adequate reliability (Cronbach alpha > 0.8) and validity (significantly predicted informational, instrumental, and emotional support) within Chinese culture among both migrant and non-migrant populations, but it remains to be tested in other contexts.

Discussion

The concept and measurement of social capital and its association with engagement in health risk and protective behaviors and risks for negative health outcomes has been explored through individual, neighborhood, community, and national level data. This increasingly expansive literature is comprised of studies based on a diversity of theoretical frameworks and utilizing a range of methodological approaches. To some extent, some of the appeal of social capital might rest in its very broad definition and application at multiple levels. However challenges remain in regards to quantifying the concepts and interpreting the direction of causality in relation to health outcomes. In this paper, we have briefly explored existing literature in an attempt to consider what evidence exists that social capital may affect adolescents’ and young adults’ engagement in health risk and protective behaviors. We have concluded that there are intriguing suggestions of the highly integrative and dynamic nature of the various levels of social capital, including the complexities of social networks, social norms, and trust in relation to individual behaviors. This existing data suggests several directions for future research that would focus more specifically on the mediating role of social capital on both risk of engagement in behaviors and subsequent risk of poor health outcomes.

- Social capital research needs to differentiate between the two forms of risk (risk of engagement of behavior and risk of poor health outcomes) and how the various levels of social capital can positively and/or negatively mediate the processes associated with these risks. Longitudinal studies with adolescents which follow respondents through adulthood need to be conducted as they will more accurately assess the connection between adolescent social capital, engagement in risk behaviors, and short- and long-term health and well-being. This research needs to be transdisciplinary and utilize theories and methods from fields including criminology, sociology, psychology, and public health.

- As evident from recent studies, social capital can be conceived of as positive and negative in relation to engagement in health risk behavior. This is particularly important in health risk behaviors which may be encouraged within specific contexts in mainstream societies (eg, alcohol consumption). Gregson et al suggest a continuum approach from positive to negative – in order to more accurately reflect the complexities within different socio-cultural and political contexts. Global research must be done, focusing on adolescent and young adult engagement in risk behaviors that are socially accepted and the role of social capital in the perpetuation of such behaviors.

- Much of the existing research indicates differential effects of social capital for men and women – however, limited studies have considered social constructs of gender as a starting point. Rather than ad hoc analysis suggesting differences between men and women, more research on risk and social capital needs to originate with the question.
of how the social construction of gender within a specific context mediates the relationships between social capital and risk/protective behaviors. As noted by Takahashi and Magalong, social capital research is often “blind” to relations of gender, race/ethnicity, and sexual identity.

- While critics of social capital have argued that social networks and relationships cannot overcome the effects of social and economic inequalities, proponents of social capital research need to do more to integrate the pre-existing knowledge within existing local, national, and international conditions.

- To date, the vast majority of adolescent risk-reduction interventions are focused on modification of individual attitudes, knowledge, and behaviors. The potential for social capital and social networks as a point for intervention has been posited. However, it is important to differentiate levels of intervention. At the community level, the agencies of change are social groups and networks, with the objective of creating positive social capital to decrease risk of engagement in behaviors and/or contracting disease. At the structural level, however, change entails the removal of environmental barriers or reinforcement of environmental facilitators to provide positive social capital development.

- Additional research is needed on social capital measurement at various levels. The reported measurement instruments for assessing social capital at the individual level, such as PSCS and ASCAT are useful, although further revision is needed. Instruments must be refined to assess social capital at collective levels, such as social capital possessed by a family, an organization, and/or a community. Instruments used to assess social capital of a nation (eg, trust and social participation) need to be documented for reliability and validity. For global adolescent health research, measurements need to be both culturally and developmentally appropriate and to assess both positive and negative social capital.

Conclusion

Current literature indicates a strong potential for social capital research as a direction for assessment. It could provide effective means of monitoring adolescent risk and protective behaviors for sexual health and substance use and abuse. Future research needs to both refine and develop reliable and valid tools and methodologies for measuring adolescent social capital. Additional research also needs to understand the mechanisms by which social capital affects health and behavior, and it needs to use the mechanisms as guidance to document association between social capital at the micro-, meso-, and macro-levels, as well as documenting young men and women’s engagement in risk behaviors within and across cultural groups.

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