Enhancing occupational health and safety in young workers: the role of social marketing

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Abstract

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• A review of the relevant literature reveals that significant gaps exist in terms of effectively using social marketing to reduce young worker injury rates.
• A comprehensive, multi-faceted social marketing approach is required to address young worker safety.
• Directing more attention toward the practice of social marketing can enhance the effectiveness of campaigns to reduce workplace injury.

Keywords
Enhancing, occupational, health, safety, young, workers, role, social, marketing

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Enhancing occupational health and safety in young workers: the role of social marketing

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Introduction

Social marketing is just beginning to be embraced in the area of occupational health and safety (OHS). While the literature on OHS includes extensive coverage of general work injury rates and trends, workplace safety cultures and climates, and new and emerging OHS strategies, there is relatively little in the literature about the role of social marketing in reducing workplace injury and the effectiveness of social marketing initiatives to address and reduce occupational injuries. The literature on the use and effectiveness of social marketing to enhance OHS for young workers (age 15–24), who suffer work-related injury at a much higher rate than older workers, is similarly limited in scope. Therefore, the goal of this paper is to examine the role of social marketing in improving workplace safety for young workers, and provide guidance for implementing such social marketing campaigns.
Prevalence of work-related injuries

In the United States, there are 13 million nonfatal work-related injuries each year. The total number of annual occupational deaths, injuries, and illnesses in the U.S. translates into 2.8 million lost workdays (Lyon and Hollcroft, 2005). Total annual direct and indirect costs of workplace injuries are estimated to be between $110 and $120 billion (Kaminski, 2001; Ayers and Kleiner, 2002; Wallace and Vodanovich, 2003). Direct costs include the cost of paying for treatment of injuries and providing compensation to injured workers. Indirect costs include lost years of productivity due to injury or fatality, usually measured by lost future wages.

In Canada, a country with one-tenth of the population of the United States, the statistics are similarly bleak. An average of over 500,000 occupational illnesses and injuries were reported yearly throughout the 1990s, translating into a work-related illness or injury in 1 out of every 18 workers (Breslin and Smith, 2005). The direct cost of each workplace injury in Canada is estimated at $60,000, while the direct cost of each workplace fatality is in the range of $492,000 (Barling et al., 2003).

Young workers suffer work-related injury at a much higher rate than older workers (IWH, 2006a; Schulte et al., 2005). In particular, those between 15 and 24 years of age have an elevated risk of sustaining a work injury (Loughlin and Barling, 2001; Breslin and Smith, 2005; IWH, 2006b). Fifty per cent of the accidents involving this age group occur during the first 6 months on the job (Beharie, 2003).

The U.S. National Institute of Occupational Safety and Health (NIOSH) estimates that 200,000 workplace injuries occur each year among youth (under age 19) in the United States (Loughlin and Frone, 2004), while approximately 60,000 young workers (age 15–24) have lost-time injuries each year in Canada. The total annual cost of occupational injuries among teens (age 15–19) in the U.S., including both direct and indirect costs, is estimated to be $5 billion dollars (Miller and Waehrer, 1998; Schulte et al., 2005).

Understanding the young worker target group

Surveys reveal that young workers do not rank safety as high in priority, nor do they place workplace injury top of mind (Beharie, 2003). A 2003 national survey of 15 to 24-year-old Canadian workers revealed that few recalled seeing OHS information during the past year, and only 12% were concerned about workplace dangers and injuries (Freeman, 2003). Yet concerns about workplace safety do exist among young workers, and become more evident when youth are questioned within focus groups or in-depth interviews. For example, research conducted with teens in the retail sector in North Carolina revealed workplace concerns about ‘unsafe environments, fear of assault, being rushed, feeling powerless, and receiving inadequate training from managers insensitive to safety issues’ (Zakocs et al., 1998: 345).

Personal factors play a key role in worker safety. Workers more at risk of workplace injury are those who are younger, male, in poor mental or physical health, or who use illicit substances (Loughlin and Frone, 2004). Factors related to physical and psychological development also contribute to young worker injuries (Castillo, 1999). Young workers may lack the emotional and physical maturity necessary for certain tasks (Linker et al., 2005; IWH, 2006a). Cognitive development is typically not complete until young people are well into their twenties (Brown, 2003). While younger males may appear to be physically well developed, they often lack the full adult decision-making and cognitive functioning necessary to make wise work-safety judgments (Beharie, 2003). Young people’s organs and musculoskeletal systems are also undergoing rapid growth, creating greater likelihood that they will be harmed through exposure to hazardous substances or develop cumulative trauma disorders (Linker et al., 2005).
Young people have higher risk thresholds than adults, are unrealistic about their own mortality, and view themselves as invulnerable and immortal (Loughlin and Frone, 2004; Smith, 2004). This can cause them to abandon standard company procedures in favor of taking short-cuts, accepting risks, and ignoring hazards (Dehaas, 1996; Beharie, 2003). Young workers may not be aware of workplace hazards or they may assess them differently, leading to unpreparedness and risky approaches that increase injury rates (Loughlin and Frone, 2004; Smith, 2004; Budworth, 2006).

Unsafe work behaviors among youth can stem from many motivations, including a desire to earn workplace rewards for productivity or gain the approval of supervisors and peers (Loughlin and Frone, 2004). Young workers are easily influenced to follow the lead of others, especially other youth showing at-risk behavior. Peer pressure and a desire to ‘fit in’ can sometimes result in unsafe work practices, particularly when the social and workplace climate is one where risk-taking is admired (Beharie, 2003). According to Brown (2003: 6), ‘Youthful exuberance and naivety combines with a desire to impress and a fear of questioning authority, often with tragic consequences’.

Young workers are also more at risk because of their lack of work experience (Castillo, 1999; Loughlin and Barling, 2001; Schulte et al., 2005). They are usually less skilled, and yet may overestimate their own skills and abilities while underestimating their risk of injury relative to their peers (Loughlin and Frone, 2004). Young people new to a workplace may avoid asking questions in order to avoid looking foolish, incompetent, or unknowledgeable (Beharie, 2003; Brown, 2003; Jamieson, 2005). They often lack a sense of empowerment or self-confidence, as well as communication and social skills, making it difficult to question the safety of a job, convey their concerns to their supervisors, challenge those who might expect them to perform unsafe acts, report accidents, or put into practice what they learn in training programs (Stelmakowich, 2002; Smith, 2004; Linker et al., 2005; Schulte et al., 2005).

Young workers are frequently involved in low-paid temporary, seasonal, or part-time jobs with variable work schedules. As a result, they must respond to changing employer demands, making them less able to gain site-specific knowledge and skills (Castillo, 1999; Loughlin and Frone, 2004; Breslin and Smith, 2005). This part-time or temporary approach to work can lead to a weaker safety culture and the phenomenon of being ‘new on the job’ for a greater length of time, in turn increasing the risk of injury (Breslin and Smith, 2005: IWH, 2006a). Younger workers often do not know their legal rights, do not know which work tasks are prohibited by labor laws, and are not familiar with safe-operating procedures and work requirements for certain tasks (Linker et al., 2005).

This review of the young worker target group has demonstrated that young workers have a unique profile compared to older workers. Given the rates of worker injury among young workers, it is worth investing a significant amount of time, effort, and money to improve workplace safety for this target group. Current approaches focusing on education and training have had some success in improving workplace safety. However, social marketing is a more comprehensive approach that has not been tried to any significant extent within the OHS context, yet the existence of a clearly defined market of young workers merits a targeted social marketing approach. Following is an explanation of the main tenets of social marketing and how these concepts could be used to improve workplace safety.

**Employing social marketing to promote workplace safety**

Social marketing is defined as 'the use of marketing principles and techniques to influence a target audience to voluntarily accept, reject, modify, or abandon a behavior for the benefit of individuals, groups, or society as a
whole' (Kotler et al., 2002: 5). Social marketing attempts to change behavior by facilitating exchange, conducting research (formative, process, and evaluation), segmenting and targeting, analyzing the target audience (attitudes, norms, values, lifestyle, etc.), examining the benefits and barriers the target audience seeks from the current behavior and new behavior, and developing strategy (4 Ps) for both upstream and downstream audiences.

In social marketing theory, an exchange takes place (Andreasen and Kotler, 2002) between the target (i.e., the worker) and the marketer (i.e., the employer or a workplace safety organization). This exchange requires that the worker be persuaded to give up something in order to gain something. What is given up are the benefits of the unsafe behaviors or habits that the worker has previously engaged in; what is gained by the worker is an enhanced level of safety and a greater likelihood that he/she will not be injured. A social marketing campaign is also characterized by the use of marketing research to guide campaign development (Kotler et al., 2002).

Segmenting and targeting the market helps to identify the most receptive audiences along with their key concerns and issues, and then allocates campaign resources to these segments (Deshpanache and Basil, 2006). In general, narrowly defined target audiences (e.g., young workers age 15–24) are preferred since they tend to be more homogeneous in their demographic and psychographic characteristics. This approach facilitates the creation of social marketing campaigns that are targeted toward a specific group, and specially designed campaigns tend to be received more favorably than generic campaigns (e.g., Marshall and Brown, 2003). It is equally important to assure that the correct target group receives the message, as targeting the wrong group can be detrimental (Jones and Owen, 2006). Social marketing involves analysis of the target market, including attitudes, norms, values, and lifestyle, and the benefits and barriers that the target audience seeks from the current behavior and new behavior.

4 Ps of social marketing

Comprehensive social marketing campaigns generally develop a strategy by manipulating several of marketing’s 4 Ps (product, place, price, promotion; see Figure 1). When planning an OHS social marketing campaign, promotion is often the first of the 4 Ps to be manipulated because a variety of communication materials can be readily developed to persuade or remind workers to adopt safer work practices. Workers are more likely to become aware of the need for safety when safety messages are delivered at both conventional (work) and unconventional (nonwork) locations. Having a variety of safety messages throughout work locations reinforces the idea that the workplace embraces a safety culture which encourages safe work practices and behaviors. Nevertheless, it is important to consider ways that all 4 Ps of price, product, place, and promotion are managed in the context of an OHS campaign.

The 'price' the target audience pays for following a particular safety practice might be a reduction in the speed with which a job can be done. Part of the price may be looking 'unnaturally' by using a particular safety precaution. The price could be financial, if the worker must buy expensive work boots, for example, rather than wearing runners. The social marketer's task is to demonstrate the value of safety, so that the 'price' paid seems worth the safety that is being gained.

The basic 'product' of safety can be positioned as being inextricably linked with enjoyment of life, given that unsafe workplace behavior can have drastic consequences on future health and wellness, and hence on enjoyment of life. The 'product' element of the social marketing mix can be divided into the actual, core, and augmented product. Actual product is the desired behavior being promoted (e.g., wear gloves while operating a machine). Core product is the end benefit of carrying out the desired behavior (e.g., higher quality of life, or a better guarantee of future wages). Augmented product includes tangible products (e.g., gloves, helmets, back braces,
Figure 1. Social marketing strategy. This figure is available in colour online at www.interscience.wiley.com/journal/mms
goggles, etc.) or intangible services (e.g., training workshops on safety).

'Place' is the location where the product is made available and where safety behavior can be carried out. If use of a particular work-safety product is being advocated, such as rubber gloves or goggles, then locating that product conveniently for worker use is a crucial element of 'place'.

**Evaluating social marketing applied to OHS**

Only a handful of studies have evaluated social marketing efforts in OHS, and the research suggests that these social marketing efforts have generally been successful. In one European study, worker injuries were reduced 25% as a result of a multi-faceted information campaign targeted at improving safety attitudes of workers involved in a major construction project. The campaign information reached many contractors and employees jointly working on a complex but short-term project, thus having the potential longer-term effect of promoting a higher level of safety in the construction and building industry (Spanenberg et al., 2002).

A study of the Fort McMurray Demonstration Project in Social Marketing emphasized community empowerment (Guidotti et al., 2000). Interventions included within the safety program included a cable TV media campaign, school activities, a community safety audit, and media appearances by a dinosaur mascot (SafetySaurus) which provided the program with a visual identity. This project illustrated how community and worksite promotion of safety and health can be mutually reinforcing, and that the worksite social support structure can strongly influence behavioral change.

The comprehensive use of social marketing tools was illustrated in a case study of an Australian company's long-term safety program. This program successfully employed a variety of social marketing tools to 'promote management commitment and employment involvement in OHS by fostering participation and co-operation at all levels in the decision-making process' (Vecchio-Sadus and Griffiths, 2004: 617). Results of the study show that the organization's safety culture can be enhanced by promoting and publicizing both management commitment to OHS and employee participation in OHS.

Involving workers in developing work-safety communication materials represents an area that has shown promising results. One study examined Hispanic construction workers who were actively involved in designing, developing, and validating the various stages of a safety education and training project targeted at their group. Cultural and language differences within ethnic groups created challenges in using education and training to promote OHS to these workers, so involving workers in the development of social marketing programs significantly improves the efficacy of the program (Brumet, 2005).

Building on the idea of worker involvement in developing campaign materials, one study examined the Washington State program entitled Health and Safety Awareness for Working Teens, and demonstrated that an educational intervention program using interactive exercises developed and tested with teens was able to successfully help young workers develop the critical thinking skills necessary for protecting themselves in the workplace. Evaluations showed that student knowledge increased after exposure to the safety curriculum. Using teens to help develop programs aimed at their own target group helped to ensure the materials were relevant and well targeted (Linker et al., 2005). This research shows that teens can experience lifelong benefits from early exposure to school-based OHS education programs that are informed and supported by community partners.

While these examples have primarily focused on promotion rather than all of the 4Ps, they provide encouragement that social marketing has the potential to offer positive benefits in OHS situations. However, because social marketing has not been widely used in OHS, its full potential has not yet been realized.
Campaigns to promote safety among young workers

While most worker safety campaigns do not employ all of the 4 Ps of social marketing, many do focus on either 'promotion' or 'place'. This section uses examples from existing campaigns to examine how some facets of social marketing are being incorporated into workplace safety campaigns targeted at youth.

Getting the safety message across to young workers through social marketing campaigns can be challenging because of their lower levels of fear (Weadock, 2003). Young workers must be addressed in age and awareness-appropriate ways, taking into account their lack of perceived danger and sense of vulnerability (Linker et al., 2005). In order to reinforce a message or program, a combination of different communication techniques is needed in order to accommodate different learning styles.

Safety campaigns

In an attempt to reduce young worker injury rates, many organizations offer education programs, web sites and social marketing campaigns focusing on educating and protecting young workers (IWH, 2003). The Internet is an increasingly useful tool to reach young people with safety messages, allowing them more control over gathering and absorbing the information (Linker et al., 2005). For example, the U.S. federal government has launched the FedNet website with the goal of getting information to youth on work activities, and to change their behaviors so that they will have safe and healthy work experiences (Professional Safety, 2005). The Canadian federal government employs a national website to link OHS resources to young and new workers (CANOSH, 2006). Passport to Safety, supported by the Ontario Workplace Safety Insurance Board (WSIB), offers young workers a free online health and safety course (Janieson, 2005).

Several provinces, provincial organizations, and workers' compensation programs have launched programs to ensure young people are aware of workplace hazards. This includes efforts to reduce the personal perceptions of immortality or invincibility held by many young workers (Young, 1998: 26). For example, shocking graphic images were used by the Workers Compensation Board of Nova Scotia (WCB of NS) in its 2005 young worker social marketing campaign. The campaign incorporated images such as a severed hand or a bloody eyeball on a silver plate, with an accompanying price tag to emphasize that body parts are more important than hourly wages (WCB of NS, 2005). Similarly, the Workers Compensation Board of British Columbia (WCB of BC) adopted a similar campaign during 2006 that uses graphic website images of severed body parts to get young workers' attention, along with a free television contest that creates an incentive for youth to explore the website (WCB of BC, 2006). However, some have criticized this graphic approach as being attention-grabbing and devoid of personal connection to young people (Beharie, 2005).

Personal real-life stories from victims and/or their families are considered an effective method for causing a young person to connect to the real and long-term consequences of workplace tragedies (Van Den Brock, 2004; Beharie, 2005). The main purpose of the 2002 WSIB young worker campaign was to change attitudes away from the concept of invincibility. This campaign, which included radio advertisements and posters in subways with tear-off pads listing workers' rights, focused on real stories of how people have been impacted by workplace illness and accidents. Market research indicated that the campaign raised awareness levels among both youth and employers (Tomlinson, 2002).

Recent research conducted by the WCB of BC shows that peer-to-peer communication elicits the best response from young people (Beharie, 2003). Drama plays have been developed in British Columbia high schools, allowing students to come up with their own ways to spread OHS messages to their peers (Van Den Brock, 2004). The Ontario-based
Industrial Accident Prevention Association (IAPA), through its Young Workers Awareness Program (YWAP), engages injured young workers to share their stories in the classroom in order to make occupational hazards real, while emphasizing positive reinforcement, choices, rights, and doing things differently (Young, 1998).

One U.S. safety marketing campaign targeted at under-30 male construction workers and titled ‘Sexy Safety Stuffers’ combined eye-catching flyers with brief safety messages in workers’ pay cheques. This ongoing campaign used messages that were fresh and continually changing in order to hold the target group’s attention (Cable, 2005).

Community-based approaches

Social marketing can also employ community-based approaches to promote desirable behaviors (Deshpande and Basil, 2006). Young worker injury prevention can benefit from community-based approaches that combine regulations, improved work-design, and safe and healthy work environments (Castillo, 1999). A more holistic approach to training for young workers involves a variety of community sectors beyond the employer (Van Den Broek, 2004: 42).

There are several examples of community-based approaches to young worker safety in North America. Three NIOSH-funded projects in the U.S. aimed at preventing youth workplace injuries involved the development and delivery of high school curricula, materials for young employees and their parents, and strategies to provide effective training for young workers (Schulte et al., 2005). NIOSH also recently published recommendations for employers, parents, educators, and adolescents about the workplace, with the message that ‘entrenched community involvement is the only way to change behaviors and attitudes about safety...this standard has to be maintained by everyone, even parents’ (Young, 1998: 30).

Groups that can and should be involved in community-based approaches to young worker safety include industry and labor groups, OHS practitioners, policy makers, standards-setting groups, equipment manufacturers, parents, educators, researchers, health care providers, and community groups (Castillo, 1999; Linker et al., 2005). Young people’s work attitudes, beliefs, and values are affected by their families (Loughlin and Barling, 2001), and parents of young workers can positively influence their own children and act as role models for young coworkers (IWH, 2003). Health care providers need to become more educated about OHS, more involved in documenting injuries, and promote the importance of safety equipment and practices to the community (Dunn et al., 1998).

Upstream campaigns as an element of social marketing

The literature on recommended youth-specific workplace safety interventions is limited. However, there is an encouraging new emphasis on developing a safety culture and the adoption of behavior-based safety approaches, with a focus on ‘upstream’ (proactive) versus ‘downstream’ (reactive) approaches to safety management (Donovan and Henley, 2003; Andreasen, 2006). Proactive upstream approaches take a longer-term view of worker safety by creating structural changes in the workplace that ensure work is made safer through better equipment, procedures, and policies.

Upstream approaches target employers rather than workers to take responsibility. Employers must be encouraged to make structural changes to provide and promote a safe and healthy work environment, ensure that machinery, work processes, and environments are appropriately modified and controls are in place, and provide training in hazards and safe workplace practices (Castillo, 1999; Breslin and Smith, 2005; Schulte et al., 2005).

Employers need to recognize that young workers are entering the workforce at a time in their lives when they are experiencing significant developmental changes from a
psychological, social, and career point of view (Loughlin and Frone, 2004). Social perceptions about supervisors, coworkers, and parents serve as important factors underlying youths' risk-taking orientation at work (Westaby and Lowe, 2005). In addition to making structural upstream changes to enhance safety, employers need to reinforce safety and health practices and provide rewards for safe behaviors and activities.

In order to keep young workers safe, employers need to introduce them to the workplace in a careful, organized way, focusing on designing jobs and tasks for new employees, training, and day-to-day supervision (Dehaas, 1996). Young workers are more prone to a workplace injury in the first month of employment; therefore employers should invest in youth programs and place special focus on the early employment stages (IWH, 2003). Special workplace interventions are especially needed for young male workers because of their increased levels of risk-taking (Loughlin and Frone, 2004).

Young workers' jobs should have developmentally appropriate task variety and responsibility in order to reduce risk of injury caused by job boredom and inattention. Compared to older workers, young workers are more likely to take short-cuts or experiment with different work methods that may present safety concerns. For this reason, employers need to spend more time communicating to young workers, as well as double-checking and supervising their work (Dehaas, 1996). Tailoring workloads to their cognitive and physical capacities will help reduce workplace injuries among young workers (Loughlin and Frone, 2004).

Employers should recognize that young workers need to be trained, instructed, and supervised differently than adult workers (Dehaas, 1996; Castillo, 1999; Beharic, 2003). Intervention strategies for hazards should be age-specific, and skill-based training should emphasize individual limitations (Loughlin and Frone, 2004). The more training and experience young people have, the less likely they are to get injured at work (Ross, 2003; Breslin and Smith, 2005). Young workers have identified enhanced supervision, reduced physical hazards, and increased young worker responsibility as important factors to improve workplace safety (Zakocs et al., 1998).

Young workers also have to be motivated differently from older workers. Employers should create workplace environments where young people feel valued and are comfortable and encouraged to be more assertive and ask questions (Zakocs et al., 1998; Tomlinson, 2002; Brown, 2003). Communication skills and assertiveness education should be incorporated into existing safety training. Managers also need to be willing to communicate and interact in ways that will not threaten or intimidate young workers who voice their concerns or question authority (Zakocs et al., 1998).

The level of company commitment to safety is a contributing factor to young worker safety (Castillo, 1999). Strong and positive safety climates have a beneficial effect on injury-related outcomes (Loughlin and Frone, 2004). Safety climate emphasizes the perceptions and attitudes held by employees regarding the importance of safety in their organization and the types of safety and health behaviors that are supported, expected, and rewarded at work (Westaby and Lee, 2003; DeJoy et al., 2004). Safety climate has been shown to be an antecedent of safety performance, and the relationship between the two may be mediated by such things as safety motivation, safety knowledge, and skill of the individual, which in turn affect safety outcomes in an organization (Griffin and Neal, 2000).

Some North American companies have started to make adjustments to address young worker injury statistics. Honeywell Systems, a Canadian company based in Ontario, uses a multifaceted approach to reach their young workers, including personal stories about life-altering young worker accidents as well as greater parental involvement (Van Den Brack, 2004). Leding Industries, a construction contracting company, has adopted an approach with young employees under 25 years of age at its North American
worksites that emphasizes mentoring and constant supervision during the adjustment stage of early employment (Beharie, 2003). Upstream approaches play a key role in successful social marketing campaigns, and are essential in extending the effectiveness of downstream approaches.

**Conclusion**

The research on workplace safety suggests a number of best practices. It seems clear that comprehensive social marketing programs sustained over time are more effective at facilitating behavioral change. Programs that incorporate personal real-life stories may better help young workers to comprehend the need for workplace safety. Peer-to-peer communication and peer involvement in developing communication materials are two methods that ensure the relevance of workplace safety campaigns. Community-based approaches provide a multi-faceted approach to workplace safety wherein the community broadly supports employer safety efforts. Upstream efforts create proactive approaches to worker safety by making work safer through structural change that introduces safer equipment, better procedures, and stronger policies. Finally, recognizing the unique characteristics of young workers should result in training, supervision, and motivation that is uniquely designed to meet their needs.

Overall, OH&S campaigns have displayed success in understanding young worker attitudes, values, and lifestyles and in using that knowledge to target and segment this market. However, up to this point, there has been less focus on facilitating behavioral change and employing product strategies. There appears to be some focus on formative research, but less on outcome evaluation. The emphasis has been more on a downstream rather than upstream approach.

There is limited research examining social marketing campaigns on the topic of workplace safety, even when the definition of social marketing is extended to include more limited campaigns that focus primarily on workplace safety communication or education where emphasis is placed on promotion of behavior without employing product and price strategies. Only a handful of studies specifically evaluate educational materials or communication campaigns to improve workplace safety, but fewer than half mention ‘social marketing’ or refer to the full range of elements that would normally comprise a social marketing campaign, or measure the effectiveness of workplace safety campaigns.

This handful of studies that evaluate the use of social marketing techniques to enhance workplace safety highlight the fact that innovative approaches and methods are needed to get the OH&S message across in ways that will positively influence workplace behavior and practices. There is little doubt that social marketing can be an important ingredient in the worker safety recipe, and more research is required to determine the most effective role that social marketing can play. Future research should focus on evaluating workplace safety social marketing campaigns, in order to provide insight into which elements of social marketing are most likely to facilitate behavioral change.

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