Non-smoking worksites in the residential construction sector: using an online forum to study perspectives and practices

Susan J Bondy,1 Kim L Bercovitz2

ABSTRACT

Objectives Blue-collar workers are a recognised priority for tobacco control. Construction workers have very high smoking rates and are difficult to study and reach with interventions promoting smoke-free workplaces and cessation. The objectives of this study were to explore the smoking-related social climate in the North American residential construction sector and to identify potential barriers and facilitators to creating smoke-free worksites.

Methods The data source used was a popular internet forum on home building. Participants included a broad and unselected population of employers, employees and freelance tradespersons working in residential construction. The forum archive contained 10 years of discourse on the subjects of smoking, workplace secondhand smoke and smoking restrictions on construction sites. Qualitative data analysis methods were used to describe major and minor discussion themes relevant to workplace smoking culture and policies in this sector.

Results Participants described considerable tension between smoking and non-smoking tradespersons, but there was also much interpersonal support for cessation and support for non-smokers’ rights. Employers and employees described efforts to make construction sites smoke free, and a movement towards preferential hiring of non-smoking tradespersons was discussed. Board participants wanted detailed scientific evidence on secondhand smoke exposure levels and risk thresholds, particularly in open-air workplaces.

Conclusions Experience with success of smoking bans in other challenging workplaces can be applied to the construction sector. Potential movement of smokers out of the workforce represents a challenge for public health systems to ensure equitable access to cessation supports and services.

INTRODUCTION

Blue-collar workers have high rates of smoking and are a priority for tobacco control.1–6 In 1997–2004, American construction workers had the highest smoking rates by occupational group at 59% (versus an average of 25% among all employees in the sample); all 13 occupations with prevalence over 50% were blue collar.4 Data for 2006–20085 reported 43% prevalence in construction and extraction compared to a low of 12% for the construction sector. Canadian data show similar disparities.7 8

Blue-collar workers are not uniformly low income or unskilled, and smoking differences by occupation persist after considering age, race, income and education,3 9 10 making the workplace a focus for intervention.9 11–15 Construction workers in the residential sector (roughly 50% of American construction activity16) are poorly studied. These workers are often temporary employees, and work in small owner-operated companies with limited capacity to offer health promotion programs.17 18 Therefore, these workers are difficult to reach for research and intervention.18–20

The objectives of this research were to understand the social context and smoking restrictions that exist in this work sector, and to identify opportunities and barriers to achieving smoke-free workplaces in residential construction. Qualitative data analysis was used to describe the views and experiences of an online population of individuals working in residential home construction.

METHODS

Data source

The data source used was the online discussion forum Breaktime,21 associated with the magazine Fine Homebuilding. The board is open to the public and registrants are told it is ‘not private’. Messages appear automatically, but are often moved to Woodshed Tavern, a heading provided for off-topic, off-colour or personal content. This analysis reviewed messages (archived online) from December 1998 to May 2010, inclusive. Ethical approval was received from University of Toronto.

Participants’ characteristics

According to unpublished marketing data22 (from 2009; personal communication, M Robinson, Taunton Press, 8 September 2010), Finehomebuilding.com received 330 000 unique visitors per month; 89% were men; the average age was 50; and the average income was US$126 000. Data specific to the Breaktime forum are not available. In a pilot stage (August–September, 2009), we found over 250 unique (anonymous) usernames in relevant discussions and looked for demographics and employment data in optional user profiles and messages. The vast majority were men who worked as contractors, framers, roofers, plumbers, electricians and specialists, in USA and Canada. Participants included owners, regular and freelance workers. Job sites described were mostly single-family homes and small multiunit residences with wide variation in value, and suburban through to remote in location.
Data retrieval
Both authors subscribed to the site, but posted no messages. We searched subject headings, thread titles and message content for keywords related to smoking and cessation (eg, smoke/smoking, tobacco, cigarette, nicotine, secondhand smoke, SHS, quit smoking, ‘cold turkey’) alone and with work-related keywords (eg, job, work, employee, hire). When a relevant message was found, the entire thread was examined. Over a 1000 smoking-related messages appeared under several headings (eg, General Discussions, Business and Woodshed Tavern) in smoking-specific threads (eg, smokers on the job site; secondhand smoke; smoking issue; fired for smoking; freedom of choice; I quit smoking; help to quit smoking) and other threads. Relevant messages were copied for manual analysis. Iterative searching stopped when new keywords found no new threads or themes. We excluded all comments on smoking in general, SHS elsewhere (eg, bars), smokeless tobacco and marijuana.

Data analysis
The goal of the analysis was to describe the attitudes and experiences of participants related to workplace smoking. Qualitative methods were used to organise and analyse textual data by systematically coding them into meaningful categories and themes. Strauss and Corbin’s procedures for coding qualitative data (open, axial and selective coding) were applied using an inductive process. Semiquantitative methods (eg, counts by theme) and a priori hypotheses were not used. We sought to identify patterns of consensus and disagreement. Open coding involved reviewing the discussion posts, asking questions of the data (eg, ‘what is this?’, ‘what does it mean?’, ‘who is the discussant?’) and breaking data into discrete categories compared for similarities and differences. Next, axial coding entailed subcoding each category, to establish linkages between categories and their subcategories. A coding scheme was developed with 33 subcodes or subcategories. In selective coding, inter-related categories were grouped under thematic headings. Identified themes are presented with illustrative quotes changed only for typographical errors. Both authors identified keywords and verified search completeness. Categories, themes and illustrative quotes were negotiated between authors until agreement was reached.

RESULTS
Major and minor content themes
Content is presented here under four major themes, with variable numbers of subthemes, and further categories or examples within subthemes.

Major theme
Conflict over smoking
Smoking on building sites was a contentious issue. A polemic was observed characterised by negative attitudes, stereotypes, and conflict between smoking and non-smoking builders. Table 1 presents selected subthemes.

Harsh comments about smoking smokers were made by non-smokers and recounted by smokers. Similarly, pejorative comments about non-smokers were found, including accusations of intolerance, discrimination and of being hypocritical.

It’s a poor unhealthy habit that I have attempted to quit before. Until I do, I don’t feel I have to apologize to every non-smoker who comes along or considers myself a second class citizen.

Statements varied from reasoned to aggressive. Many, arguably, were humorous.

All smokers should be shot on sight.

When one asks if I mind if they smoke, I just say... mind if I fart?

Several smokers said they had no wish to affront non-smokers and respected non-smokers’ rights. A related subtheme related to

Table 1 Subthemes related to arguments and interactions between smokers and non-smokers at work

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<td>No[,] smoking is not a protected right. In fact, smokers usually find themselves the constant source of violating someone else’s rights by subjecting them to smoke.</td>
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| Explicit debate about whether smoking is a right | A person has a right to choose to smoke, but, other individuals have the right not to be exposed to second hand smoking.
When you said that you didn’t want anyone smoking ‘anywhere near’ you, you seemed to be stepping over the line where you have every right to be in control (in your home, car, etc) to areas where your desires may be in conflict with someone else’s desires. At that point, it becomes a situation requiring some negotiation and compromise. |
| Mixed opinions on the entitlement of non-smokers to a completely smoke-free workplace | Intolerant? I just like clean air. I like my clean air space... I choose not to smoke and will not be put in a position where I have to put up with it because I might hurt somebody’s precious feelings. I don’t smoke either, but this intolerant attitude makes me want to puke. I know it’s addictive. But there’s help out there. […] You still stink. […] Maybe you don’t understand why someone can let cigarettes rule their lives, but that statement says more about you and your understanding of addiction than it does about smokers. Maybe because your olfactory senses are shot, you don’t realise how bad it smells. I don’t care to talk with someone after they have a smoke because it’s still on their breath. It’s on your clothes. In your hair, your vehicle, your very presence. It gets on your grandchildren when they come for a visit. It reeks. As a former smoker, my opinion is (was) that if it doesn’t affect anyone else, it should be my right to poison my own damn self anytime I saw fit. When it begins to affect someone else’s health or even their comfort or smell, that infringes on THEIR right not to smell my smoke. […] |
| Tolerance and intolerance | |
| |
| Addiction: | |
| Acknowledgement of addiction | |
| Variable attitudes regarding tolerance of addictive behaviour | |
| You and I smell differently: | |
| Disagreement over the smell per se and its aversiveness | |
| Inadequate justification: | |
| Smells as insufficient justification for restrictions | |
| Protests that health arguments are used to justify preferences, and descriptions of an anti-smoking stance as political correctness, a movement, or belief system | |
| Advice to speak up and how: | |
| Encouragement to raise issues with supervisors | |
| Expressions of thanks for advice on how to broach the subject. | |
how non-smokers could speak up without creating conflict (see table 1).

Critical discussion about secondhand smoke
Most speakers accepted that smoking was harmful. A small number of participants were dismissive of the health risk due to active smoking; these posts tended to be rebutted quickly.

It’s been known for a long time that smoking causes cancer and a lot of other diseases like weakening blood vessels, stroke, heart disease, etc. Cigarettes killed both of my parents and it’s not something I take lightly.

In contrast, many smokers and non-smokers, alike, questioned the significance of risk from SHS at work, especially from SHS exposure outdoors.

Don’t give me that tired old bit about second hand smoke. Sure, second hand smoke is dangerous. Under current rules, the only place smokers can smoke is outside, so a smoker really has to work to subject someone else to it (other than subjecting your kids which I agree is unacceptable).

If some rabid anti-smoker was working with me and complained about secondhand smoke in an open air building, I would have to laugh. With all the noxious fumes, dust and odors of a typical jobsite, sometimes cigarette smoke is pleasant by comparison.

Similarly, posters debated whether smoking smoke was relevant to health.

You aren’t going to get lung cancer from smelling their smoke, despite the hype, just as we should probably prohibit fireplaces, because I can smell that sweet oak smoke when I go outside now. […] All I can say is, chill out. Tell them to go outside and worry about other stuff.

Very few posts discussed SHS with explicit reference to regulated occupational exposures.

Why protect against one substance and on a regular basis willingly expose yourself to another? It makes no common sense.

However, many participants said that SHS was no worse than commonplace exposures (eg, dust or exhaust).

It’s a chemical that they find pleasurable and relaxing, it causes me no more harm than the exhaust from my truck in small doses. Let them be.

Some participants expressed interest in scientific data on risk thresholds for SHS exposure.

The issue of second hand smoke is more problematic. How much exposure is required to create a health hazard? I’ve never seen any studies that define a level of exposure that is safe or unsafe. It’s similar to exposure to ionizing radiation. What’s the threshold?

Participants offered website links to reports on SHS effects and risk thresholds from sources such as Science Daily and the National Cancer Institute.

Experiences with smoking at work
This theme and the following were closely linked. This theme pertained to experiences with smoking on the job, and whether this was problematic. Problem areas identified included safety, litter and conflict (see table 2). Former smokers and those trying to quit reported that the presence of smokers at work was difficult for them. In the same conversations, several participants commented that problems weren’t inevitable and could be prevented through courtesy or voluntary action. Most posters agreed with at least some measures to separate smokers and non-smokers at work.

Discussion of formal smoking restrictions
Messages related to this theme described rules that employers had adopted, why they did this and what was effective. Subthemes are presented below.

Subtheme: motivations for smoking policies
Rules were often made to avoid the problems discussed above. In addition, several people made reference to disapproval of smoking by customers. One employer mentioned that his crew does not smoke while talking to the customer unless they smoke.

I don’t allow smoking on my projects, no exceptions, it’s right there in the request for a bid, if you can’t handle it then don’t bother working on my job. Smoking outside is permitted, nothing personal, just common courtesy, who wants to move into a brand new home and have it smell like a bar.

I smoke. And if someone was doing finish in my house smoking they would not be back. Even if the HO [home owner] didn’t admit to mindy they did. I can’t smoke at work and I work outside, smoking stay in car, at the shop. I think most any company worth working for has gone this way.

We did not find many employers who said explicitly that they had restricted smoking to reduce their own health insurance costs. However, smoking and SHS were discussed often in general discussions about health insurance (not explicitly reviewed).

The company I work for recently banned all use of tobacco while on the job. The reason was purely economic. Tobacco use was responsible for about 20% of the cost of our medical insurance.

Finally, a few participants stated that workplace legislation should apply to construction sites to create equality with other workplaces:

Ohio recently passed a law outlawing smoking in the workplace… I don’t think a home as a work site should be an exception.

In this day and age where cigarettes are banned in most workplaces, why are the trades still subjected to this offensive drug?

Speakers were not unanimous in support for legislation, however. Many speakers described how voluntary measures could prevent meaningful SHS exposure (see previous theme). One speaker explicitly stated a preference for voluntary measures over government intervention.

Subtheme: the need for commitment from bosses
Several speakers showed that they felt it was important for the boss to demonstrate commitment to smoking restrictions, and that non-smokers wanted employers to take a stand to defend non-smokers.

In my line of work I tend to take over a section of the house during construction. I make it known that this area is my area, not to be smoked in. On the few occasions that I’ve had people light up, I remind them. Once. You don’t have to like it. I don’t care if you don’t like it. You won’t smoke in my work area.

One worker directly asked board participants for advice to address smoking at work (versus change jobs) and was encouraged to speak with his boss.

I think I will talk to the boss and tell him what I can and cannot work with, and then the answer will be revealed.

Subtheme: the need for enforcement
Several discussants recommended signage, although one stated that signs aren’t helpful if ‘only there for insurance purposes’ and not enforced. Many workers and employers recommended
enforcement measures including fines for smoking and billing individual smokers for costs of litter or damage. Several participants recommended that one accept that smoking will occur and take measures such as fire-safe garbage containers and separate smoking areas for lunch and breaks.

"Smoking is more than a bad habit. It is a way of life sometimes and very addictive. These smokers ain’t gonna just ‘abide by the rule’. They will sneak a smoke whenever and wherever they can. If nothing else, you will see them taking a bathroom break every few minutes."

Subtheme: the need to define outdoor space

Speakers asked and answered questions about when any building under construction went from being outdoor to indoor space. Suggested points of demarcation varied and included: ‘no smoking at any stage of construction’, ‘once windows are installed’, ‘once insulation is installed’, ‘after the drywall goes up’ and ‘after paint and floor finishes are in place’.

Subtheme: Discussion on selective hiring of non-smokers

Several participants said that if contractors are really concerned about smoking they should hire non-smokers. Several gave advice on this.

Tables and data

Table 2 Themes related to problems arising from smoking on construction worksites, and voluntary measures that reduced or ameliorated problems

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Selected research papers


**Research paper**

**Table 2 Themes related to problems arising from smoking on construction worksites, and voluntary measures that reduced or ameliorated problems**

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Subtheme: the need to define outdoor space

Speakers asked and answered questions about when any building under construction went from being outdoor to indoor space. Suggested points of demarcation varied and included: ‘no smoking at any stage of construction’, ‘once windows are installed’, ‘once insulation is installed’, ‘after the drywall goes up’ and ‘after paint and floor finishes are in place’.

Subtheme: Discussion on selective hiring of non-smokers

Several participants said that if contractors are really concerned about smoking they should hire non-smokers. Several gave advice on this.

[Former smoker] Your best bet is to hire non-smokers. Ever add up how many idle minutes a smoker gets in a day? You can’t work when your hands are busy with your ‘drugs’.

Stand behind it!! No matter who are the best hands, subs, salesmen. Show us what you’re made of and say no to smokers entirely!!! Then we will know how strong you are in a pinch.

Related to this were discussions of discrimination. Suggestions were made to state ‘non-smoking job site’ in job advertisements.

I think that if you look into the Equal Opportunity Employment guidelines, not hiring a smoker isn’t discrimination. It’s not a race, creed, sexual orientation or a disability. It’s an addiction and I don’t remember seeing that it’s mandatory that someone with an addiction be hired when someone without one is available.

The feasibility of hiring non-smokers was also discussed, including references to high prevalence of smoking among trades in some areas versus a good supply of qualified non-smokers in others.

If you truly wish to avoid all smokers in this industry, you are going to be hard pressed to find help/subs.

Downloaded from http://tobaccocontrol.bmj.com/ on April 20, 2017 - Published by group.bmj.com
Distribution of the relevant content over time
Messages appeared throughout the study time period, but the volume was unevenly distributed. Sparing between smokers and non-smokers was found over the whole 10-year period. The most active discussions regarding the importance of secondhand smoke on job sites were in 2000 and in 2005. Discussion about formal restrictions peaked in 2005 as did the discussion of hiring non-smokers. In a 2005 thread on the subject of advertising for non-smokers, one person indicated feeling that the social climate had changed in favour of hiring non-smokers.

An interesting thread............no doubt. Interesting because about 2 yrs ago I started a similar thread and was damn near crucified by the smokers on line. Seems like a reversal in the thought process going on here. Verrrrry interesting!

In 2009, several messages listed smoking policies among standard content for bids, contracts and job ads, and these received no reaction or comments with respect to smoking. In the most recent 2 years of data, smoking was more commonly mentioned within political debate about proposed changes in US health insurance, which was not the focus of this research.

DISCUSSION
No uniform acceptance of smoking was observed, but rather a polemic between smoking and non-smoking residential construction workers. We also found evidence that many employers had adopted smoking restrictions, and several had taken steps to hire non-smokers.

This study has several limitations. First, this is a convenience sample; we could not collect demographic data from participants and Taunton Press could provide only limited data from unpublished marketing research, which we cannot study for methods and response rates. Study subjects have higher than average income levels, even though incomes in construction are higher than the average for all industries, particularly for skilled technicians. Our findings may be most relevant to skilled tradespersons, owners and those with white-collar clients. One strength of this study is the absence of criteria which have excluded some workers from previous studies, such as union or strength of this study is the absence of criteria which have excluded some workers from previous studies, such as union or

Smoking and non-smoking workers often represent conflicting self-interest groups. Work with trade unions has shown that not wanting to take sides can inhibit leaders from establishing smoke-free policies, but also shows acceptance of policies after consultation. Studies in several settings suggest conflict is reduced when complete bans replace partial ones, which is plausible through reduced need for interpersonal negotiation, and distancing smokers from smoking cues which trigger cravings. Regarding the significance of observed conflict, some name calling was likely of humorous intent, as described in various workplaces, particularly between men. Humour may diffuse tension and allow discussion of difficult subjects, or denigrate opposing voices. Argumentation is also common resistance behaviour in smokers unwilling to change their behaviour and may be overemphasised in observation/case studies, simply because it is so observable and triggers counterargument. Regardless, promotion of smoke-free workplaces should address conflict resolution, and model programmes do this.

This study highlights opportunities for gain-based messaging (eg, increased productivity) to promote smokefree workplaces, consistent with model interventions in other blue-collar settings. Another opportunity is the commercial advantage of appealing to non-smoking clients (which has been discussed more often in the hospitality sector and to non-smoking employees.

Suggestions for policy implementation include: clear definitions; management commitment and enforcement; and planning for covert smoking. These are consistent with recommendations from research with tradespersons and other workplaces late to adopt smoking bans such as mental health facilities and the military. Definitional challenges remain. Enclosed space rules defined for restaurants may not apply. Unlike doorways, perimeters around non-smoking coworkers would be a moving target and even more difficult to enforce. It was unclear to these workers what stage of completion marked when a building under construction became an indoor workplace. Complete grounds bans are appearing in many settings and this would eliminate the grey area.

Little evidence was found that builders need to be told that SHS is linked to health effects. Instead, they wanted detailed scientific data on dose and risk thresholds—particularly outdoors. Vague or poorly substantiated statements about SHS should be avoided in light of a critical audience, even among non-smokers. This presents challenges for knowledge exchange and basic research. High toxin concentrations are found from cigarette smoke in naturalistic outdoor settings. Regardless, it is difficult to estimate personal exposure outdoors, which depends on the number of cigarettes, distance and air movement, all of which are highly variable. A goal of smokefree workplaces may be to reduce smoking prevalence. Further research should explore how to maximise this outcome in blue-collar populations, where it is challenging to offer multicomponent interventions. Current and former smokers recognised that smoking at work made it hard to quit and stay quit. Again, complete site bans, as opposed to smoking areas, may be most effective.

The motivation to hire non-smokers deserves attention. Shutting smokers out of work will not improve an inequitable situation where lower occupational status and unemployment are associated with high tobacco-related health burden, and smokers remain economically disadvantaged. Working tradespersons already have poorer access to cessation supports and services. Creative means are needed to connect builders with effective cessation supports. One model used has been to...
Smoking and smoking at work were not universally accepted among this group of workers. Many people working in home building, renovation, and construction prefer a smoke-free workplace.

At least some employers in this sector are acting upon a preference to hire non-smokers. This has implications for the economic burden associated with smoking and underscores the importance of helping blue collar workers to quit without relying on work-related health programs and insurance.

Blue collar workers may not readily be convinced by arguments to restrict second hand smoke based on the precautionary principle. Further research is warranted to develop effective risk communication strategies.

**Acknowledgements**

We would like to acknowledge the contributions of Phil Bigelow, Lori Diemert, Pam Kaufman and Sabrina Voci for assistance with this research and comments on the draft manuscript.

**Funding**

This research was supported by the Ontario Tobacco Research Unit, which receives funding from the Ontario Ministry of Health Promotion.

**Competing interests**

None.

**Ethics approval**

This study was conducted with the approval of the University of Toronto Health Sciences Research Ethics Board (expressed waiver of requirement for full review on the grounds that the research involved only anonymised publicly available data).

**Contributors**

SB conceived of the study, identified the data source, and took primary responsibility for integration of findings with prior literature. Both authors contributed to development of the data analysis strategy. KB developed the initial codes and structures for major and minor discussion themes. Both authors participated in data analysis, interpretation, and manuscript preparation.

**Provenance and peer review**

Not commissioned; externally peer reviewed.

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Susan J Bondy and Kim L Bercovitz

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