Effects of an alcohol prevention program at sport arenas: A 2-year follow-up study using pseudopatrons and breath alcohol concentration levels

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Aim
To measure the effects of an alcohol prevention program (Fig. 1) implemented at arenas hosting games in the Swedish Premier Football League (SPFL).

Background
Alcohol intoxication and related problems among spectators are common at SPFL games. Alcohol beverages can be purchased at the sport arenas. However, obviously intoxicated individuals are not allowed to enter the arenas or purchase alcohol. In 2015, we initiated a novel research project with the aim to increase the level of compliance with the Alcohol Act, thereby reducing alcohol intoxication levels among spectators.

Methods
A quasi-experimental study using a repeated cross-sectional design where Stockholm is the intervention area and Gothenburg the control. Data consists of security/serving staff’s rates of denial toward obviously intoxicated spectators and breath alcohol concentration (BrAC) levels among spectators.

Professional actors (pseudopatrons) were trained to act a standardized scene of obvious intoxication at licensed premises outside and inside the arenas as well as at the entrances to the arenas. Measurements outside the arena were used as an internal control. BrAC-levels were collected among randomly selected spectators inside the arenas using breath analyzers.

Results
Both the pseudopatron (Fig. 2) and BrAC study (Fig. 3) revealed significant changes in both study areas. However, the internal control only improved in the control area (Fig. 2).

Conclusion
Interpretation of results is complex due to the positive changes observed in the control area. However, while the internal control remained constant in the intervention area, it changed significantly in the control area. It then appears as if the control area has not remained constant and indeed, during the study period a number of alcohol licenses were revoked from licensed premises outside the arenas in the control area. It is likely that this have had a spill-over effect on licensed premises inside the arenas. Results then indicate that the multi-component alcohol prevention program is effective.

This research was funded by the Public Health Agency of Sweden and the Alcohol Research Council of the Swedish Alcohol Retailing Monopoly.

The authors declare no conflict of interest.