Implications for policy makers and future research

Nurse led hospital at home or early discharge schemes for patients with COPD should be prioritised over the type of nurse led models of chronic disease management that have been studied to date. There is little evidence available at present to support the models that have been evaluated. Existing services providing this sort of care should be robustly evaluated against the aims of the particular service.

The evidence around long term or intensive case management and hospital readmission is currently equivocal and requires further study. The potential benefits of schemes for chronic disease management in patients with COPD receiving long term oxygen therapy should also be explored further. Several potentially important outcomes have not been evaluated, including patients’ satisfaction, self-management, patients’ coping and adherence, smoking cessation, and the effects on carers.

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The partial smoking ban in licensed establishments and health inequalities in England: modelling study

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The UK government’s white paper Choosing Health proposes prohibiting smoking in public places in England, but exempts public houses (pubs) not serving catered food and licensed establishments that require membership.1 However, passive inhalation of smoke at work may cause 600 deaths per year in the United Kingdom and increases morbidity and mortality among bar workers.2 Furthermore, people attempting to quit smoking find that socialising with other smokers makes quitting difficult, and lapses in quitting are more likely in premises where smoking is permitted.3

Concerns exist that exempt establishments are located primarily in deprived areas with the highest smoking prevalence and that a partial ban worsens health inequalities.4 We examined if exempt establishments were located predominantly in deprived areas in the borough of Telford and Wrekin.

Methods and results

We determined the catering status of pubs from regularly updated records of local authority licensing and environmental health. These allowed us to identify premises preparing catered food, those serving manufactured snacks, and those not serving food. Choosing Health proposes prohibiting smoking only in pubs serving catered food; all others can be exempt. All licensed members’ clubs may choose exemption, which we assumed for this study.

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Postcode mapping of establishments to each super-output area allowed extraction of scores on the index of multiple deprivation scores by using the software MapInfo, version 8.0 (MapInfo Limited, Windsor, UK). The super-output area is a contiguous aggregate of census output areas containing some 1500 people.

We used logistic regression to examine the relation between the proportion of exempt premises and deprivation score for pubs and licensed members’ establishments in Telford and Wrekin borough. With the regression coefficients generated, we used median deprivation scores for pubs and licensed members’ establishments in the model to estimate the probability of a typical English establishment being exempt.

Out of 174 pubs in the borough, 99 (57%) served catered food. Hence, 75 (43%) would be exempt from smoking prohibition. Including all licensed members’ establishments in the model showed that 127 (56%) would be exempt. The model predicted that two thirds of English pubs in deprived areas would be exempt, whereas only a quarter would be exempt in affluent areas. Including members’ clubs in the model showed that two fifths of establishments in affluent areas and four fifths of establishments in deprived areas would be exempt (table). A significant linear trend between deprivation and probability of exemption existed in all analyses.

Comment

Prohibiting smoking only in pubs that serve catered food and allowing exemptions for other licensed drinking establishments may worsen health inequalities. Choosing Health estimates that only 10-30% of pubs could be smoking (p100), but our data indicate that the proportion of exempt pubs is higher (43%). This is a small study in one borough, so care must be taken extrapolating the findings. However, Telford and Wrekin is similar to England in terms of demographic and socioeconomic profile. Higher exemption rates were also observed in a survey of 29 local authorities, but no data on deprivation were obtained. Our results show that in deprived areas are more likely to live near licensed establishments exempt from legislation to protect them against smoking. It is possible that people from deprived neighbourhoods may visit establishments in affluent areas, whereas those living in affluent neighbourhoods make the reverse journey. It is more likely that the poorest people with the worst health and highest smoking prevalence would be those most likely to be harmed by passive smoking either working in pubs or as customers, and would be those most likely to have their attempt to stop smoking undermined. We urge the UK government to ban smoking in all enclosed public places, similar to the ban proposed in Scotland and enacted in Ireland, to prevent worsening health inequalities.

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