study area (5.6) is much greater than that in developed countries such as USA (2.6 in 2006, US Census Bureau) and Japan (2.6 in 2005, Ministry of Internal Affairs and Communications). Thus, many non-smoking household members may share indoor environments with smokers.

The WHO FCTC is the first global public health treaty that the 166 WHO member states have already ratified. Article 8 of the WHO FCTC addresses the issue of protection from exposure to tobacco smoke in public places, however, there’s no statement on protection from domestic SHS. Despite the lack of biological data, our results clearly indicate that SHS exposure occurs in public places and also in households. For women and children in particular, the household likely represents the primary location of exposure. Public educational campaigns for smoke-free homes are warranted in Southeast Asian countries, to protect women and children who remain exposed to SHS at home.

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► Supplementary material (supplementary table) is available online only. To view this file please visit the journal online (http://tobaccocontrol.bmj.com).

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Competing interests None.

Ethics approval This study was approved by the Institutional Review Board (IRB) of the National Institute of Hygiene and Epidemiology, Vietnam and the IRB of the Institute of Tropical Medicine, Nagasaki University, Japan.

Contributors KA initiated the study, KA, PEK, DDA and LY were responsible for study conception and design, VDT and DDA collected the baseline data, MS analysed and interpreted the data, MS, LY and KA drafted the manuscript and PEK revised it. All authors had full access to all of the data in the study.

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Figure 1 The number of articles focused on passive smoking, secondhand smoking or adolescent smoking in important Chinese newspapers from 2000 to 2008.

Figure 2 The number of articles about the Olympics among smoking-related articles in important Chinese newspapers from 2000 to 2008.

millions of citizens, including politicians and decision makers, are exposed. Media advocacy has thus become an important component of comprehensive tobacco control programs.

China has the world’s largest population, with 52.4% of adult men and 3.4% of adult women smoking.5 6 In China, news coverage of health issues has increased dramatically in recent years. In our previous study of cancer coverage in Chinese newspapers, there was a sharp increase in cancer-related reports from 578 articles in 2000 to 1403 articles in 2006.7 However, there has been little analysis or evaluation of news coverage on smoking in China.

In this study we aim to provide a systematic overview of all tobacco news coverage in a database of major Chinese newspapers over 9 years from 2000 to 2008.

METHODS

Reports about smoking-related matters were obtained from the Database of Important Chinese Newspapers (http://www.cnki.net) from 2000 to 2008. As of 18 June 2008, the database included 152 national and 362 local newspapers. The search keywords were fixed as “吸烟”, “吸烟” (吸烟, 抽烟 in English: smoking), “戒烟”, “控烟” or “禁烟” (戒烟, 控烟, 禁烟 in English: smoking cessation, or smoking restriction) in the title to calculate the number of smoking-related articles.

Every smoking-related article obtained from the database was carefully read to ensure that tobacco was central to each article, and articles without smoking-related content were excluded. Articles were allocated to a primary topic classification, which included government law/policy/regulation, health consequences, prevention/cessation programs, affiliated organisation/business news, negative social effects or other. Stories about secondhand smoking, adolescent smoking and smoking-related Olympic Games stories were also noted.

We tested whether the number of articles in each year was the same using the Poisson heterogeneity test.8
RESULTS

A total of 1366 articles about smoking or smoking control were located (table 1).

There was a significant difference in the number of articles appearing each year (p<0.001). Except for small decreases in 2001 and 2002, press attention to smoking increased every year, indicating increasing attention paid to smoking-related matters in recent years. The total number of articles was highest in May (254 articles, p<0.05) because of press reports of ‘World No Tobacco Day’ on 31 May.

The principal focus of 1366 smoking-related articles, as judged by headline, are shown in table 1. For each theme, there was a significant difference in the number of articles appearing each year (p<0.001). Almost 2 in 5 of all articles (535/1366) focused on the effects of smoking on health with tobacco prevention/cessation programs being the next most frequent category. Examples included ‘Smoking increases the incidence of lung cancer’, ‘Smoking addiction is a risk factor for coronary heart diseases’ and ‘Smoking is harmful to eye health’. However, in 2008 stories about government law/policy/regulation concerning tobacco appeared most frequently.

In the years prior to 2005 there were less than 10 reports on secondhand smoke, but in 2007 and 2008 this increased to 44 and 37 reports, respectively.

References to smoking and the Olympics numbered just 3 in 2006, and then rose sharply to 30 in 2007, and further to 67 in 2008, suggesting that the then-forthcoming Olympics stimulated this increase.

The total volume of articles (1366) reflects an ongoing presence of tobacco issues in the news, with an average of nearly one article per day in 2007 and 2008 in Chinese newspapers. The growing coverage may reflect increasing attention to smoking and the endeavours being made to promote tobacco control in China. In our previous research, we found 7643 newspaper reports about cancer in newspapers between 2000 and 2007. Smoking-related articles (1366) were far less frequent over the same period. More attention should be paid to promoting newspaper coverage about smoking in newspapers.

The coverage of issues in newspapers is typically highly correlated with the presentation of the same issues in other media such as radio and television.8 Indeed, newspaper and magazines articles are often cited by the public as common sources of health information.9

In the US and Australia, secondhand smoke was the most prevalent tobacco-related theme.10 Its low ranking in Chinese newspapers suggests there is plenty of scope to raise coverage of this issue in the news media in China.

There are limitations to our study. For example, we only examined newspapers, but did not analyse the slant of articles. The development of strategies aimed at improving health news reporting deserves more focused attention from the media and researchers.

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Competing interests None.

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Misure of the Official Information Act by the tobacco industry in New Zealand

The purpose of the Official Information Act (OIA) in New Zealand is to facilitate the democratic process by promoting the accountability of government.1 Tobacco companies exploit freedom of information acts which make official information publicly available. For example, they disrupted and discredited tobacco control work with information gained from public records requests to the California Department of Health Services in the 1990s.2

We examined all OIA requests to the Ministry of Health (MoH) New Zealand, about tobacco control and smoke-free services from 2005 to August 2009 to determine their origin, content and the charges made for information. Internet searches were
Newspaper coverage about smoking in leading Chinese newspapers in past nine years

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