Association between exposure to environmental tobacco smoke and the development of acute coronary syndromes: the CARDIO2000 case–control study

C Pitsavos, D B Panagiotakos, C Chrysohoou, J Skoumas, K Tzioumis, C Stefanadis, P Toutouzas

Objective: To investigate the association between environmental tobacco smoke (ETS) exposure (at least 30 minutes a day) and the risk of developing acute coronary syndromes (ACS).

Design and setting: The CARDIO2000 is a case–control study which was conducted in Greece from 2000 to 2001. Cases included 847 individuals with a first event of ACS and 1078 cardiovascular disease-free controls. Cases and controls were frequency matched on age (within three years of age), sex, and region.

Main outcome measures: ACS was defined as a diagnosis of first acute myocardial infarction or unstable angina.

Main independent variable: Exposure to ETS was measured by self report as follows: after the second day of hospitalisation for the cases, and at the entry for the controls, participants were asked whether they were currently exposed to tobacco smoke from other people (home and/or work) for more than 30 minutes a day. The responses were categorised into three levels: no exposure, occasional exposure (< 3 times per week), and regular exposure. In addition participants were asked how many years they had been exposed. Because these were self reported assessments and prone to bias, the results were compared to reports obtained from subjects’ relatives or friends, using the Kendall’s τ coefficient that showed high agreement.

Results: 731 (86%) of the patients and 605 (56%) of the controls reported current exposure of 30 minutes per day or more to ETS. Among current non-smokers, cases were 47% more likely to report regular exposure to ETS (odds ratio (OR) 1.47, 95% confidence interval (CI) 1.26 to 1.80) compared to controls. Exposure to ETS at work was associated with a greater risk of ACS compared to home exposure (+97% v +33%). The risk of ACS was also raised in active smokers (OR 2.83, 95% CI 2.07 to 3.81) regularly exposed to ETS.

Conclusions: This study supports the hypothesis that exposure to ETS increases the risk of developing ACS. The consistency of these findings with the existing totality of evidence presented in the literature supports the role of ETS in the aetiology of ACS.
first symptoms of coronary heart disease (stable angina was excluded from the analysis), 848 (89%) agreed to be enrolled into the study (cases). The inclusion criteria for cardiac cases included:

1. Diagnosis of first acute myocardial infarction (MI) — MI was defined by two features: electrocardiographic changes, compatible clinical symptoms, and specific diagnostic enzyme elevations (49% of the patients had MI); or
2. Diagnosis of unstable angina (that is, one or more angina episodes at rest within the preceding 48 hours) corresponding to class III of the Braunwald classification (51% of the patients had unstable angina).

After the selection of the cardiac patients, 1078 of 1300 (83% response) randomly selected cardiovascular disease-free subjects (controls) agreed to be enrolled into the study. The controls were matched to the patients according their age distribution (within groups of ±3 years), their sex, and the same region in Greece.

Stratification
According to the population distribution provided by the Hellenic Statistical Services (Census 2000), we stratified our sampling into all the Greek regions, in order to include various socioeconomic levels and cultural characteristics of the studied population. The enrolled subjects were from approximately half the clinics (seven public and two private) of the two biggest cities (Athens and Thessalonica), and from almost all (three-quarters) the major prefectorial hospitals of the other Greek regions (three from Sterea Ellada, three from Thessalia, two from Hpeiro, five from Macedonia, two from Thrace, five from Peloponese, two from Crete, five from Aegean, and three from Ionian islands).

Controls were mainly individuals (91% of the total number of controls) who visited the outpatient departments of the same hospital and at the same period with the coronary patients, for routine examinations or minor surgical operations. However, in country hospitals, where the available number of hospitalised controls was not sufficient for the matching procedure, we enrolled a small number of visitors to the same hospitals (3% of the total number of controls) or individuals (6% of the total number of controls) randomly selected from municipal rolls. The controls were subjects without any clinical symptoms, signs or suspicion of cardiovascular disease in their medical history, as evaluated by a cardiologist in the study. We used this type of control in order to have more accurate medical information, to eliminate the potential adverse effect of several unknown confounders, and to increase the likelihood that cases and controls shared the same study base.

The number of subjects was determined through power analysis, in order to evaluate a minimum difference of 7% in exposure history between cases and control with statistical power of 0.80 and p < 0.05.

Exposures to ETS
Exposure to ETS was measured through a confidential questionnaire administered during a specific interview by the CARDIO2000 investigators (cardiologists, physicians); for the cases this took place after the second day of hospitalisation, and at entry for the controls. In particular, the questionnaire asked: “Are you currently exposed to tobacco smoke from other people for more than 30 minutes per day?” We also asked separately about two locations, home and workplace, and responses were categorised into three levels: no exposure, occasional exposure (< 3 times per week), and regular exposure. In addition to the question on current exposure to ETS, we also asked: “As an adult, how many years have you lived with someone who has smoked regularly?” Following previous studies, response categories were: none or < 1 year, 1–4, 5–9, 10–19, 20–29, 30–39 and ≥ 40 years. Because these were self reported assessments and prone to bias, we compared these results to reports obtained from subjects’ relatives or friends. The Kendal’s τ coefficient showed high concordance between the answers of the investigated patients and controls and their relatives or friends (τ = 0.82, p < 0.01 and τ = 0.90, p < 0.01, respectively). Three per cent of the cases and 2% of the controls were discordant and therefore were excluded from the analysis.

Other exposure parameters
We defined as current smokers those who smoked at least one cigarette per day. Former smokers were defined as the subjects who had stopped smoking for over one year. Individuals who reported that they had never smoked a cigarette in their life were considered as never smokers. Occasional smoking was recorded, and occasional smokers excluded from the analysis because of the small number in cases (12, 1%) and controls (21, 2%). Educational level was measured by years of schooling. Mean annual income during the past five years was also recorded. Clinical symptoms of depression during the previous month were sought using the Center of Epidemiological Studies-Depression scale (CES-D). Based on a pilot analysis in clinically confirmed depressive subjects from the same study base, a cut-off point of 15 on the scale (0–60) was used in order to discriminate significant depressive symptoms. Thus, we classified the subjects into two categories, those with and without short term depressive symptoms (CES-D > 15 or < 15). Physical activity was defined as any type of non-occupational physical exercise, at least once per week during the past year. The rest of the subjects were defined as physically inactive. Also, the duration of physical exercise was taken into account.

The evaluation of the nutritional habits was based on a questionnaire from the department of nutrition of the National School of Public Health. The traditional Mediterranean type of diet is characterised by a pattern that is high in fruits, vegetables, bread, other cereals, potatoes, poultry, beans, nuts and fish, little red meat and dairy products, and moderate alcohol consumption, with olive oil as an important source of fat. Thus, we measured the consumption of these food items as an average per week during the past year. The frequency of consumption was then quantified approximately in terms of the number of times per month the food was consumed. We defined subjects who are “closer” to the Mediterranean type of diet using as cut off points the median values of the monthly food consumption score (like several previous studies). Finally, alcohol consumption was measured by daily ethanol intake greater than 100 ml (adjusted for 12% ethanol concentration).

According to the collected medical information, the majority of the controls (86%) and the patients (83%) had at least one laboratory measurement during the past 12 months. In addition, arterial blood pressure levels were measured in patients and controls. An average of three measurements were taken, with the subject seated and calm, using a standard sphygmomanometer. The systolic blood pressure level was determined by the first perception of sound (of tapping quality), while the diastolic blood pressure I (or phase IV) level was determined when the sounds cease to be tapping in quality and become fully muffled. The diastolic blood pressure II (or phase V) level was determined by the perception of complete disappearance of sounds. Fasting total cholesterol as well as fasting blood glucose concentrations were measured in serum. For the cardiac patients the measurements were collected during the first 12 hours of hospitalisation, and for the controls at the end of the interview. The previous information, as well as the patients’ and controls’ reports, were used to characterise the subjects as hypertensive, hypercholesteremic, and diabetic. Thus, in keeping with the long standing
classification criteria used in several population based studies, patients whose mean blood pressure levels were > 140/90 mm Hg or were under antihypertensive medication were classified as hypertensive. Hypercholesterolaemia was defined as cholesterol concentrations > 5.68 mmol/l (> 220 mg/dl) or > 5.17 mmol/l (> 200 mg/dl) when two other risk factors for coronary heart disease or use of special hypolipidaemic treatment was present. Diabetics were those with fasting blood glucose > 3.23 mmol/l (> 125 mg/dl) or who were under special diet or treatment. Finally, obesity was defined as body mass index (weight (kg)/height (m^2)) greater than 29.9 kg/m^2. Details regarding the design and methodology of the study have been published previously.† *

Statistical analysis
Continuous variables are presented as mean (±1 SD). Qualitative variables are presented as absolute and relative frequencies. Pearson's correlation coefficient was used in order to measure associations between the continuous variables, while contingency tables with calculation of χ^2 test, as well as application of Student's t test, evaluated associations between the categorical and normally distributed continuous variables. The estimates of the relative risks of developing ACS was performed by calculating odds ratios (OR) and their corresponding 95% confidence intervals (CI) through conditional logistic regression analysis. The final model was developed through backward stepwise procedures, for the selection of variables. In particular, we evaluated all the interactions between the exposure variables and the main factor of interest (exposure to ETS). Afterwards, we explored the potential confounding effect of the other exposure variables (by adding and removing each one from the model). Both elimination procedures were based on the Wald's statistic. Significant confounders as well as interactions were retained in the model. Deviance residuals were calculated in order to evaluate the model's goodness-of-fit. The dose–response equation between the risk of developing ACS and the years of exposure was derived through exponential interpolation (OR = a * e^(b * level of exposure)). In particular, we estimated the odds of developing ACS in participants who were exposed during a specific time period (1–4, or 5–9 years, etc) compared to a reference category of no exposure, after taking into account the effect of several potential confounders. Then we applied the aforementioned methodology into the N x R space (years of exposure, OR) and estimated the function that interprets the data better (using the higher R^2 value). Thus, an exponential association was derived. The exposed attributable fraction (EAF) was calculated by the formula: EAF = (OR – 1)/OR. All reported probability values (p values) were based on two sided tests and compared to a significant level of 5%. STATA 6 software was used for all the calculations (STATA Corp, College Station, Texas, USA).

RESULTS
The analysis of the data showed that 731 (86%) of the patients and 605 (56%) of the controls were exposed to ETS, independently from their smoking status (current, former, or never smokers). Of these, 197 (27%) of the patients and 103 (17%) of the controls were regularly exposed to ETS, and the rest occasionally. Table 1 shows the distribution of the other exposure factors in each group of subjects, stratified by exposure to ETS.

Multivariate analysis evaluated the association between exposure to ETS (in active/former or never smokers) and the presence of ACS, separately in males and females. The significant interactions observed in the exploratory analysis (table 1) were taken into account in fitting the multivariate risk model. Table 2 presents the results from the multivariate analysis in the subgroup of never smokers. Never smokers reporting occasional or regular exposure to cigarette smoke had a 47% higher risk of developing ACS compared with never smokers who were not exposed to ETS, after taking into account the effect of several potential confounders. The overall odds ratio was slightly but not significantly higher in females compared to males (p = NS). No differences (at 5% probability level) were observed in the effect of ETS on coronary risk, when we split the analysis according to the clinical syndrome (that is, MI and unstable angina). Finally, no significant interactions were observed between educational level and exposure to ETS when the other covariates were taken into account. According to these findings, and from a public health perspective, we could say that 32% (95% CI 21% to 44%) of subjects who were regularly exposed to ETS would develop ACS because of exposure during their life (exposed attributable risk). Moreover, the quantitative dose–response equation showed that the odds ratios of developing ACS are clearly described by an exponential function of years of exposure to ETS (fig 1).

We attempted to refine the exposure categories further by examining the separate effects of exposure at home or at workplace. Sixty nine (35%) of the non-smoker patients and 33 (20%) of the non-smoker controls reported that they were exposed to smoke only at home. Additionally, the years of exposure to smoke were higher at workplace (29 (6) v 20 (7) years, t = 6.85, df = 1032, p < 0.001). However, the latter finding may be confounded by the years of marriage, which was not recorded in the questionnaires. With respect to the previous limitation,
the adjusted odds ratio was 1.97 (95% CI 1.16 to 3.34) in never smokers subjects who were regularly exposed only at workplace, and 1.33 (95% CI 1.20 to 1.46) in never smokers subject who were exposed only at home, after taking into account the effect of the conventional cardiovascular risk factors. The risk increased significantly further in subjects who were exposed both at home and at the workplace (OR 2.56, 95% CI 2.28 to 2.86).

Moreover our study confirmed the higher odds ratios of coronary heart disease in individuals who smoke cigarettes compared with non-smokers (OR 2.14, 95% CI 1.75 to 2.62). This odds ratio increases further when those who have been exposed to ETS are excluded from the non-smoking reference group (OR 2.83, 95% CI 2.07 to 3.31). Figure 2 illustrates the effect of passive compared with active smoking on the coronary risk, under the presence of several cardiovascular risk factors. In particular, the odds ratios were calculated for active smokers compared with never smokers (right line), and for passively exposed compared with not passively exposed never smokers (left line). A never smoker who is regularly exposed to tobacco smoke and has four other cardiovascular risk factors experiences the same risk of developing coronary heart disease as an individual who is a current smoker and has two other risk factors. Moreover, comparing the results with those of active versus non-smoking, we found that the odds ratio decreases slightly when we excluded second hand smoking both in active and non-smoking groups (OR 2.54, 95% CI 1.82 to 3.54).

### DISCUSSION

Based on a large sample of coronary patients and controls, we found that almost nine out of 10 of the patients and six out of 10 of the controls were passively exposed to tobacco smoke. In the subgroup of never smokers the proportions were 70% and 30%, respectively (table 1). Subjects who were passively exposed to tobacco smoke experienced a greater risk of adverse cardiac events, compared with subjects who were not exposed to ETS.

During the few past years special attention has been given to the effect of exposure to ETS on human health, especially to the incidence of lung cancer and cardiovascular disease. Reports from previous studies suggest that ETS produces more arteriosclerosis. This is mainly caused by changes in cholesterol concentrations, aggregation of platelets, and damage of endothelial cells in the arteries. It is estimated that exposure to ETS increases the risk by 25% for a non-smoker compared with that of the unexposed. Also, previous studies reported

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### Table 2

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<thead>
<tr>
<th></th>
<th>Males</th>
<th>Females</th>
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<tbody>
<tr>
<td>Passive smoking (non-smoker)</td>
<td></td>
<td></td>
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<tr>
<td>Occasional v no exposure</td>
<td>1.25 (1.05 to 1.49)</td>
<td>1.29 (1.04 to 1.61)</td>
</tr>
<tr>
<td>Regular v no exposure</td>
<td>1.47 (1.26 to 1.80)</td>
<td>1.56 (1.18 to 2.05)</td>
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<tr>
<td>Hypertension (yes/no)</td>
<td>1.66 (1.16 to 2.38)</td>
<td>4.96 (2.56 to 9.53)</td>
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<td>Hypercholesterolaemia</td>
<td>3.77 (2.68 to 5.27)</td>
<td>2.19 (1.80 to 2.66)</td>
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<tr>
<td>Diabetes mellitus (yes/no)</td>
<td>2.04 (1.25 to 3.35)</td>
<td>2.18 (1.02 to 4.69)</td>
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<tr>
<td>Family history of coronary heart disease (yes/no)</td>
<td>5.11 (3.77 to 7.01)</td>
<td>3.14 (2.68 to 3.67)</td>
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<td>Physical inactivity (yes/no)</td>
<td>1.10 (1.02 to 1.25)</td>
<td>1.19 (0.87 to 1.63)</td>
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<tr>
<td>Mediterranean diet (yes/no)</td>
<td>0.96 (0.85 to 1.07)</td>
<td>0.80 (0.75 to 0.84)</td>
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<tr>
<td>Alcohol consumption (&gt;1/0–1 wineglass per day)</td>
<td>1.23 (1.10 to 1.37)</td>
<td>1.03 (0.78 to 1.46)</td>
</tr>
<tr>
<td>Education (per 6 year of schooling)</td>
<td>0.87 (0.79 to 0.97)</td>
<td>0.53 (0.46 to 0.60)</td>
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<tr>
<td>Depression (yes/no)</td>
<td>1.58 (1.25 to 1.99)</td>
<td>1.93 (1.85 to 2.01)</td>
</tr>
</tbody>
</table>

The variables included in the initial model were: age and sex, by design, environmental tobacco smoke, hypertension, hypercholesterolaemia, diabetes mellitus, family history of premature coronary heart disease, physical inactivity, adoption of Mediterranean diet, alcohol consumption, education, annual income, body mass index, depression. CI, confidence interval; OR, odds ratio.
that the risk of coronary heart disease from passive smoking increases both following exposure at home as well as in the workplace. Our findings support the hypothesis stated by other investigators that occasional and regular exposure to tobacco smoke can significantly increase the risk of developing ACS among non-smokers or never smokers. Additionally, we found that coronary risk is exponentially associated with the years of exposure. Also, it seems that the increased risk among never smokers is roughly half the increase caused by active smoking, under the presence of several cardiovascular risk factors (Fig 1). However, this finding may hide a methodological limitation since the specific effects of the different risk factors are not identical. Many estimates of risks derived from past studies of active and passive smoking and are directly comparable because they are calculated using different reference categories. In particular, in studies of active smoking, the reference category has often included all non-smokers, including those with high levels of passive exposure, whereas the reference category in studies of passive smoking usually consists of those not exposed to smoke. Finally, in the present work we confirmed the higher risk of coronary heart disease in individuals who smoke cigarettes compared with non-smokers, while the previous risk increases further when those who have been exposed to ETS are excluded from the non-smoking reference group.

Regarding the effect of exposure to ETS in the workplace, Steenland and colleagues, in a reanalysis of eight studies, found that passive smoking in the workplace increases the coronary risk by 21%. Moreover, other investigators found that restricting smoking in workplaces lowers exposure to ETS. In particular, the median concentrations of nicotine were 0.10–10.0 mg/m³ in offices where smoking was allowed, and < 0.05–5.85 mg/m³ in offices where smoking was restricted. Also, a study of a large number of nurses showed that occasional exposure to ETS at home and at work increased the risk by 58% and regular exposure by 91%. In our study we found a higher risk of ETS at the workplace compared with ETS at home (+97% vs +33%, respectively), while the combination seems to double the coronary risk (OR 2.56). The latter finding could be explained through the increased duration and the higher intensity of exposure, compared with the family environment, but this interpretation may be limited by failure to record years of marriage. Although people's right not to be exposed to other people's tobacco smoke in the workplace has become increasingly recognized over the past years, it seems that in Greece this right has been clearly infringed. Since the late 1980s several ministerial decisions (A2/1989, A2g/1980, 4508/1990, and Y3/4322/1993) have prohibited smoking in hospitals, private clinics, in places belonging to state agencies, in private or public companies and organisations, as well as during the flights of all domestic airlines. Nevertheless, the prevalence of passive exposure to tobacco smoke, especially in workplaces, remains high (25–35%).

Finally, a topic that needs special attention is the assessment of exposure. In order to measure the reliability of past smoking histories, Brownson and colleagues conducted a substudy as part of a larger study of lung cancer among non-smoking women in Missouri. The evaluation was based on re-interviews and found that the reliability of the questionnaires tended to be somewhat higher among controls than among cases. Moreover, in a sample of adult non-smokers recruited in New Mexico in 1986, Caulton and colleagues concluded that adults could reliably report whether household members smoked during the past, but information on quantitative aspects of smoking was reported less reliably. Finally, Pron and colleagues used a test–retest design to examine the reliability of passive smoking histories reported in personal interviews in a case-control study of lung cancer. Their analysis showed that the investigated individuals more reliably reported residential exposure to spouse's ETS than to the ETS of others at home. Also, quantitative measures of exposure to smoke—that is, number and duration of exposure—were even less reliably reported. In our study ETS exposure was assessed by self-reports. Moreover, it might be hypothesised that patients who have just been admitted with newly diagnosed coronary heart disease are more likely to report passive smoke exposure. Thus, it was essential to perform a reliability analysis (by controlling their answers with their relatives or friends), which showed that the information regarding the exposure to ETS seems reliable, both in cardiac patients and controls. In our work the current exposure measures could be better predictors of risk than the lifelong exposure measures, since the dose–response relation between years of exposure and coronary risk (Fig 1) may be overestimated. It is believed that patients, especially non-smokers, who currently suffered from an ACS, may tend to exaggerate their adverse exposure to several lifestyle or environmental conditions, like ETS. Thus, a prospectively designed study may confirm or refute our findings regarding the exponential dose–response association.

Limitations
In this case–control study two main sources of systematic error may exist—selection, and recall bias. In order to eliminate selection bias we tried to set objective criteria for both patients and controls. Additionally, we made an effort to eliminate control subjects with any symptoms or clinical signs of cardiovascular disease. However, misclassification may exist, since a small percentage of asymptomatic coronary patients may be wrongly assigned to controls, even though a cardiologist evaluated them. Moreover, the coronary patients who died at entry or the day after were not included in the study. This bias could influence our results, but, since the proportion of deaths during the first two days was estimated at between 2–4%, by the CARDIO2000 investigators, we believe that the inability to include the fatal events did not alter significantly our findings. We tried to avoid information bias through evaluation of data from patients' medical records. However, recall bias may still exist, especially in the measurement of the duration of ETS exposure, and the onset of the other cardiovascular risk factors. Also, the use of odds ratios may overestimate the relative risk. Furthermore, regarding the potential effect of uncontrolled/unknown confounders, we tried to reduce this using the same study base both for patients and controls.

Conclusion
It is suggested by several studies that ETS causes the death of thousands of people worldwide. Avoidance of ETS reduces the coronary risk. The consistency of these findings with the existing totality of evidence presented above increases the belief that the observed association, between exposure to ETS and coronary risk, may represent cause and effect. Most non-smokers wish not to be exposed to tobacco smoke against their will. The only safe way to protect non-smokers from exposure to cigarette smoke is to eliminate this health hazard from public places and workplaces, as well as from the home. A ban on smoking in workplaces might be an effective way to reduce exposure to ETS.
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