we would be concerned that subjects admitted with acute bronchitis, community-acquired pneumonia, or smoking-related chronic obstructive lung disease may be misclassified as patients with asthma or vice versa. In our own study, we attempted to address this deficiency by assessing overall admissions due to respiratory disease as a primary outcome, with individual respiratory diagnoses as prespecified secondary outcomes.2 We identified a significant reduction in respiratory admissions as a whole, with a corresponding rather dramatic diminution of admissions classified as being due to asthma.

Prior studies from the USA4 suggest that administrative data may be highly specific, but insensitive for a diagnosis of asthma, while a UK-based study5 found asthma admissions to be misclassified in 9–14% of cases. Thus, what evidence is available suggests that substantial misclassification bias is a genuine risk in studies such as this.

The authors are to be congratulated on a thorough and otherwise highly robust interrogation of the effects of antitobacco legislation on respiratory health, but we feel that this important limitation should at the very least be acknowledged, and ideally—if the authors have supporting data—refuted.

Brian D Kent,1,2 Stephen J Lane,2 Edward D Moloney2
1Pulmonary and Sleep Disorders Unit, St. Vincent’s University Hospital, Dublin, Ireland
2Department of Respiratory Medicine, Adelaide & Meath Hospital, Tallaght, Dublin, Ireland
Correspondence to Dr Brian Kent, Pulmonary and Sleep Disorders Unit, St. Vincent’s University Hospital, Dublin D4, Ireland; Brian.kent@ucd.ie

Contributors BDK, SJL and EDM conceived of, and drafted this manuscript.

Competing interests None.

Provenance and peer review Not commissioned; internally peer reviewed.

To cite Kent BD, Lane SJ, Moloney E D. Thorax 2013;68:1166.

Received 12 July 2013
Accepted 5 August 2013
Published Online First 26 August 2013

http://dx.doi.org/10.1136/thoraxjnl-2012-202841
http://dx.doi.org/10.1136/thoraxjnl-2013-204371

doi:10.1136/thoraxjnl-2013-204183

REFERENCES