Benzodiazepines and pneumonia or aspiration pneumonitis

Dr Obiora et al1 have presented some interesting data. One could quibble about the validity of the nested case-control model, but this issue is important mainly in identifying the fact that the patients were not individually assessed, nor were their particular variables, apart from the ones of interest, benzodiazepines and pneumonia, taken into consideration. Part of the randomness was accounted for by the use of conditional logistic regression but, as frequently happens, the authors appear not to have differentiated between pneumonitis and pneumonia, not surprisingly as they were dependent on diagnoses given by other physicians. These two terms are so frequently used as synonyms that it appears that few remember that they are very different entities.2 The authors mention the greater use of benzodiazepines in the elderly, and this is one group of greatest interest.3

Individuals at an advanced age, with diseases such as diabetes, Chronic Obstructive Pulmonary Disease, Parkinson disease and others, have a high incidence of gastroesophageal reflux (GER). Benzodiazepines are known to increase the risk of reflux being known, anecdotally, as ‘muscle relaxants’.4 5 The lower oesophageal sphincter is not a true sphincter but an area of muscle with, normally, increased tone. When this tone is diminished, reflux results, most often during the deepest part of sleep, and is likely to be unobserved. Unless there has been massive aspiration of stomach contents, the patient may simply feel unwell for a day or so, may have a fever and malaise, and 4–5 days later, develop a bacterial pneumonia due to the normal inhalation of saliva which uses the original area of chemical damage as a base for infection.6 7 It is suggested that the use of benzodiazepines be very carefully considered in individuals known to suffer GER, to suffer a disease in which GER is common, or one in which immunodeficiency may be inferred. This is not to imply that the benzodiazepines themselves affect immune status, but that infection is likely to be more hazardous in such patients as a result of the above.

Irene Campbell-Taylor
Correspondence to Dr Irene Campbell-Taylor, 4303 New Waterford Highway, New Waterford NS B1H 2E1, Canada; drirenect@aol.com

Competing interests None.
Provenance and peer review Not commissioned; internally peer reviewed.

To cite Campbell-Taylor I. Thorax Published Online First: [please include Day Month Year] doi:10.1136/thoraxjnl-2012-203193
Received 28 December 2012
Accepted 11 January 2013
Thorax 2013;0:1. doi:10.1136/thoraxjnl-2012-203193

REFERENCES
Benzodiazepines and pneumonia or aspiration pneumonitis

Irene Campbell-Taylor

Thorax  published online January 31, 2013

Updated information and services can be found at:
http://thorax.bmj.com/content/early/2013/01/30/thoraxjnl-2012-20319

These include:

References

This article cites 7 articles, 0 of which you can access for free at:
http://thorax.bmj.com/content/early/2013/01/30/thoraxjnl-2012-20319

Email alerting service

Receive free email alerts when new articles cite this article. Sign up in the box at the top right corner of the online article.

Notes

To request permissions go to:
http://group.bmj.com/group/rights-licensing/permissions

To order reprints go to:
http://journals.bmj.com/cgi/reprintform

To subscribe to BMJ go to:
http://group.bmj.com/subscribe/