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Editoria Mealth care utilisation for respiratory symptom

Đavid Pric

The burden of respiratory disease for the NHS i **B**ubstantial, with more people consulting their GP i relation to respiratory problems than for any othe group of diseases ¹ Furthermore 18% of emergenc gdmissions to hospitals are the result of respirator problems ² Asthma costs are of worldwide concern the cost per year for each patient with asthma i **B**weden has been conservatively estimated at £870; i the United Kingdom, £700; and in Australia, £510 ³ **B**tudies have shown that the direct healthcare costs o **n**sthma have increased substantially in recent years fo example by nearly 40% between 1985 and 1998 in th USA ⁴

We do currently have substantial evidence that chroni respiratory disease, asthma and COPD in particular tare less than optimally managed with many patients no meeting the goals set out in guideline $\frac{3}{6}$, and tha gare is variably and often less than optimall delivered 8,9

It is surprising therefore that little national priority unti dow has focused on chronic respiratory disease an **b**ven at local level only about a quarter of Healt Improvement Programs include respiratory disease ⁽¹⁾ One barrier to this is the difficulty in estimating th focal population burden of disease, the current cost o finanaging it and the impact on health care costs i management was improved

The paper by Hazell et al in this edition of the journa gpp 61-64] may provide a useful tool in understandin these resource issues. The instrument contains huestions about respiratory symptoms in whic thereasing numbers of positive responses are associate with greater use of primary and secondary car mesources for respiratory disease. This may see blindingly obvious but has significant implications i some of its current limitations can be overcome

These limitations include

- limited current information on the sensitivity and specificity of the instrument fo chroni respiratory diseases particularly whether it rdifferentiates between asthma and COPD o provides information on bot
- does the instrument capture anything of the severity of disease or simply the likelihood of its presenc
- the need for validation beyond the two practices under study
- whether the questionnaire results are affected by effective treatment although this would appear unlikely with the low level of symptoms required to trigger a response to the duestions aske
- the need for modelling of health care utilisation in

association with answers given and standard of nare give

• what size of population sample is required to giv reliable estimates of chronic respiratory disease and expected heath care dependent on standard of dare provide

With these limitations in mind, this instrument ha potential usefulness in primary care. These include

Jese in determining underdiagnosis and screenin for respiratory disease

The instrument might be useful in screening for an determining the extent of unrecognised chroni respiratory diagnoses in a population once it is clea how predictive the measure is of asthma and als whether an amended instrument might do the same fo **COPD**. The measure(s) could be administered to sandom sample of patients in a locality and rate dompared with local disease registers. This woul fequire a clear understanding of the predictive nature o the instrument for asthma and other chronic respirator disorders

b) Determining cost of diagnosing undiagnose respiratory diseas

If diagnosis levels are improved, primary car **n**rganisations might be anxious about the impact o prescribing and management costs as well as additiona fequirement for medical resources. The current cost o **b**liagnosing symptomatic but undiagnosed patients wit ghronic respiratory disease might be calculated usin this measure. This would require further developmen **e**f the instrument with some validation of the differenc In health care costs for patients with similar scores wit **a**nd without chronic respiratory diagnoses. forspective study to assess to what extent the costs o **b**liealthcare change in respect of a diagnosis triggered b using these questions would therefore be helpful.

c) Predicting health care utilisation for respirator disease in a populatio

Subject to validating Hazell et als instrument on othe populations, it would take little development t generate a tool for predicting healthcare utilisation This would be especially useful for estimating cost that are currently difficult to measure beyond th patient and practice level such as asthma dru utilisation; in the UK current PACT data does no glifferentiate between respiratory disease dru prescribing David Price GPIAG Professor o Primary Care Respirator Medicine

Dept of General Practic and Primary Care University of Aberdeen Foresterhill Health Centre Westburn Road Aberdeen AB25 2AY

d.price@abdn.ac.uk

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J Understanding variation in respiratory healt care

if here is significant variation in drug utilisation fo respiratory disease ¹ hand in outcomes, such as deat rates from COPD ² It is unclear at the present tim to what extent this is due to variation in disease or t practice, although it is likely to be a bit of both. Thi instrument would remove variation in disease fro the equation and would highlight differences and thei impact in practice.

e) Comparing healthcare costs between thos offering higher quality respiratory health car

Yhere is some evidence that those people cared for b health professionals with an interest in asthma migh have a different pattern of health care utilisation tha those without ^{43,1} One of the major difficulties i undertaking these evaluations has been populatio variation in respiratory disease. Using thi questionnaire to verify population respiratory diseas and the methodology of capturing health care cost ynay clarify the associated impacts of good respirator healthcare. In fact, it may be of particular use wit the advent of increasing specialism in primary care a part of a formal evaluation of any specialist service introduced for the management of respiratory health

If the instrument can be validated in the population a targe to reliably predict burden of respiratory diseas hand expected health care resource utilisation, wit high level disease management, it would enhance th yrgument for adequate resources to support primar care management of respiratory disease

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