Questions on questionnaire development

With interest I read the paper by Powell et al' on the development of a questionnaire to describe respiratory symptoms in infants and preschool children. Because of the age of the children this is a difficult topic, and the authors are to be congratulated for their attempt. However, a number of questions arose when reading their paper. First of all, the method for assessing test-retest reliability is questionable. The method, originally developed in the field of psychology, was used to see whether, when measuring some personality trait, assessing it repeatedly would give the same results. The kappa values for agreement in this area are usually in the range 0.70–0.90. Respiratory symptoms are not personality characteristics and cannot be assumed to be stable. So when assessing symptoms over the previous three months, with two weeks interval, a change may be due to what statisticians call “measurement error”, but also to a change in symptoms. A related issue is the interpretation of the results in the paper. In the abstract, the authors mention one kappa score below 0.40, but they fail to mention that the majority of other items were below 0.60 (reliability results from tables 1 and 2, accessible from ADC Online). In the abstract the authors conclude that the short term reliability is good, but this certainly overstates the results. It is not clear why the authors have chosen to compare the 20 referred children in whom a diagnosis of asthma was made to the 42 children from the newborn cohort. Why not compare them to the referred children who were not labelled as having asthma? Finally, it is unclear why in table 1 (paper version) the reader cannot reproduce the figures in the last column from the previous columns.

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Reference

Time for a randomised controlled trial of empyema treatment?

We were interested to read Pierronpoint et al’s short report in October’s edition of Archives, which concluded that first line treatment of empyema thoracis should be with a pigtail catheter drain and urokinase. However, there is still ongoing debate as whether empyema thoracis is best treated like this or by open thoracotomy and decortication. It is interesting that the inpatient days for both therapeutic methods have been found to be similar.1 However, both reports are case series. Is it not time that a randomised control trial was performed comparing the two methods to aid paediatricians in the management of empyema thoracis?

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References

How best to review it? Why not try “road testing” it on a few problems this general paediatrician has to see on the wards recently. Firstly, a 12 year old with painless microscopic haematuria. We find the expected exhortation to take a full history and do a thorough examination, followed by a friendly table listing the more straightforward tests, and a discussion of the more arcane ones to be considered. The point about this sort of book, of course, is to supply reminders and hints about what to consider, rather than lists to follow slavishly.

Secondly, a pair of brothers whose bones keep breaking. Are there any tests worth doing to look for osteogenesis imperfecta? Nothing at all on this, but maybe that’s a bit too specialised for this small book.

Next patient, one of those worrying “funny bruising” problems: is it NAI, or is there a rare clotting/platelet disorder? There’s no schema for investigating easy bruising as such, but platelet function and coagulation disorders are discussed. There are useful tables of all the tests haematologists can do, and looking at these enables the paediatrician to sound less clueless when discussing them. There are also tips on how to take the specimens properly.

What about a child who has suddenly put on weight? What tests will rule out an organic cause? A brief paragraph helpfully distinguishes between tests to find the cause and tests to look for complications, and a table lists what investigations might be worth doing, including the rarities.

A 10 year old comes in with weak, painful limbs and unable to stand. Is it a viral myositis or something more sinister? Difficult to find all the answers in one place, but the tables on “acute generalised weakness” list some of the causes, including some one might not think of, and what tests might exclude them.

My conclusion? This handbook doesn’t pretend to be a mini textbook, and within its limits achieves what it sets out to do very well. It’s written in an accessible style with lots of quick reference boxes, and a few flow charts and illustrations. The index is somewhat limited and it may take a while to find what one is looking for. Some sort of index allowing cross reference by clinical presentation rather than by system would be a nice addition—for example, “gone off feet”: what lists to look at? There are, inevitably, gaps, and bigger texts will be needed at times. That said, it is well suited for constant use by all in wards and clinics, is reasonably priced, and is already very popular.

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Handbook of paediatric investigations


In the letter by Murugan et al (Arch Dis Child 2003;88:91) the abbreviation ECG was used in error. Throughout the letter, “echocardiogram” should be used. The journal apoligises for the error.