LETTERS TO THE EDITOR

- Banerjee I, Ghia N, Bandopadhyay S, Sayed HN, Mukherjee D. Body mass index in Bengali adolescents. Indian Pediatr 2005; 42: 262-267.
- Irrational Combination of Montelukast and Bambuterol for Management of Childhood Asthma

Recently, many of the leading pharmaceutical companies have started marketing a combination of montelukast and bambuterol for management of childhood asthma. Montelukast is a Cys-leukotriene receptor antagonist. It has been proven to have a role in management of mild persistent asthma(1). However, recent trials have found it be either inferior to inhaled low dose fluticasone or notinferior (equivalent) to fluticasone(2). Based on the available data, the current consensus guidelines from various professional bodies(3), montelukast is listed as an alternative to low dose inhaled steroids. It is also recommended as an add-on to inhaled steroids in moderate persistent asthma even though there is data to suggest inferiority to combination of inhaled corticosteroids and inhaled long acting beta-agonists(4). The recently updated guidelines from the British Thoracic Society(5) clearly mention inhaled corticosteroids as the first choice preventer drug.

Bambuterol is a bis-dimethylcarbamate prodrug of terbutaline that releases terbutaline into blood over a sustained period. In this respect, it is different from long acting beta agonists like salmeterol or formoterol. The drug has been demonstrated to have benefit in noc4. Yagnik CS. Early life origins of insulin resistance and type 2 diabetes in India and other Asian countries. J Nutr 2004;134: 205-210.

turnal symptoms(6). However, the drug does not find mention in any of the standard treatment guidelines.

Since montelukast has been recommended as an alternative therapy in mild persistent asthma, we can presume the combination of montelukast and bambuterol is targeted for therapy of moderate persistent asthma.

Montelukast with long acting beta agonists are not recommended for use in asthma (BTS). There are no published studies evaluating the combination. With the above discussion it is clear that this combination will be inferior to inhaled corticosteroids and long acting beta agonists.

Even though the combination has an advantage of oral administration, should we accept this as therapy for moderate persistent asthma? It is desirable that the regulatory authorities carefully review the available evidence before permission is granted for marketing such irrational combination.

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## REFERENCES

 Knorr B, Franchi LM, Bisgaard H, Vermeulen JH, LeSouef P, Santanello N, *et al.* Montelukast, a leukotriene receptor antagonist, for the treatment of persistent asthma in children aged 2 to 5 years. Pediatrics 2001; 108: E48.

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## LETTERS TO THE EDITOR

- Garcia MLG, Wahn U, Gilles L, Swern A, Tozzi CA, Poloset P. Montelukast compared with fluticasone, for control of asthma among 6- to 14-year-old patients with mild asthma: The MOSAIC study. Pediatrics 2005; 116: 360-369.
- Global Strategy for Asthma Management and Prevention. NIH Publication No 02-3659 Issued January, 1995 (updated 2002). Management Segment (Chapter 7): Updated 2004 from the 2003 document. Accessible from www.ginasthma.org
- Ringdal N, Eliraz A, Pruzinec R, Weber HH, Mulder PG, Akveld M, *et al.* The salmeterol/ fluticasone combination is more effective than

fluticasone plus oral montelukast in asthma. Respir Med 2003; 97: 234-241.

- British Thoracic Society, Scottish Intercollegiate Guidelines network. British guideline on management of asthma. Accessible from http://www.enterpriseportal2.co.uk/file store/bts/asthmaupdatenov05.pdf. Accessed 30th November 2005.
- Wallaert B, Brun P, Ostinelli J, Murciano D, Champel F, Blaive B, *et al.* A comparison of two long-acting beta-agonists, oral bambuterol and inhaled salmeterol, in the treatment of moderate to severe asthmatic patients with nocturnal symptoms. The French Bambuterol Study Group. Respir Med 1999; 93: 33-38.

## Ring Chromosome 14 with Epilepsy and Development Delay

We present a 2-year-old girl, the first child born to young, healthy and nonconsanguineous parents. At the age of 15 months she had seizures confirmed by EEG as epilepsy. CT scan of brain was normal. At 17 months baby's weight was 7.9 Kg, length 67 cm, skull circumference 42 cm that are below 5th percentile. She also had elongated face with high forehead, downturned corner of the mouth, long philtrum, staring look with squint eyes, absence of retinal pigmentation and hypotonia. Cytogenetic investigation of the proband revealed 46,XX,r(14) (p11.2q32.3). (*Fig.1*).



Fig. 1. Metaphase of the proband showing 46,XX,r(14)(p11.2q32.33).

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