Abstract G489(P) Figure 2  Meta-analysis of studies comparing two-month steroid course with prolonged courses

Abstract G489(P) Figure 3  Meta-analysis of studies comparing three months with six months of steroid treatment

to steroids. Only sarei-to was showed to improve frequent relapses and number of relapses per patient.

Conclusion This meta-analysis showed no sufficient evidence that prolonged steroid courses for the first episode of INS can prevent future relapses. The cumulative steroid dose was significantly higher with prolonged courses suggesting a potential for increased toxicity, even though the incidence of side effects was similar. In conclusion, the current evidence cannot support that prolongation of steroid treatment for the first episode of INS for more than two to three months is beneficial.

Abbreviations RR relative risk, CI confidence intervals, WMD weighted mean difference, SMD standardised mean difference

Introduction Post streptococcal glomerulonephritis (PSGN) is the most common type of glomerulonephritis in children. Anaemia is one of its complications and is commonly secondary to fluid retention.

We describe a very rare occurrence of Autoimmune Haemolytic Anaemia (AIHA) in a 10 year old girl who presented with post streptococcal glomerulonephritis.

This case serves to alert the clinician about this rarely reported association.

Case report A 10 year girl was admitted with a 12 day history of diarrhoea and vomiting. She had been treated for pustular tonsillitis 6 weeks prior. Cola coloured urine was noted at presentation. She has no significant past medical history.

She was oliguric, pale, oedematous, hypertensive with haematuria. Initial investigations showed a mixed nephritic/nephrotic picture with direct coomb’s test (DAT) positive haemolytic anaemia with spherocytes on the blood film.

Her DAT was negative for anti-gG, but positive anti-C3b-C3d, indicating that the auto–antibodies were IgM in nature.

She was transfused in view of symptomatic anaemia (Hb: 60 grams/L) and commenced on antihypertensive medication prior to her transfer to a tertiary renal unit.

1Sesham, 1E Lewin, 2B Enchill, 3J Evans. 1Paediatrics, James Paget University Hospital, Great Yarmouth, UK; 2Paediatric Nephrology, Nottingham University Hospitals, Nottingham, UK

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Trends in Health at the Beginning of Adolescence in England: Evidence From Two Birth Cohorts 30 Years Apart

NL Shackleton, D Hale, RM Viner. Institute of Child Health, University College London, London, UK

Aims To compare the health of contemporary young adolescents with their historical peers. We sought to understand changes in patterns of injuries, non-communicable conditions, infectious diseases and health service use; and to examine the effects of increasing income disparities in Britain over the past 30 years on changes in the social patterning of health between the two cohorts.

Methods Secondary analysis of the 10–11 year surveys of the British Cohort Study (1980–81) and the Millennium Cohort Study (2000). The prevalence of, and socioeconomic gradients in, the following were compared; general health problems, body mass index, height and weight z scores, allergic conditions, infectious diseases, health service use, smoking and parental smoking behaviour, and maternal adiposity.

Results As shown in Table 1, there were decreases in hospital admissions, smoking, parental smoking, infectious diseases, hearing problems and bed wetting. There were no changes in limiting long standing illness, or the proportion of children having 2 or more accidents requiring medical attention. There were increases in overweight and obesity, height for age, weight for age, chicken pox, allergic conditions and wearing glasses.

There were notable socioeconomic gradients in many health outcomes in the BCS cohort (1980) and the MCS cohort (2012), as shown in Table 2. There was a stronger socioeconomic gradient for most health outcomes in 2012 compared to 1980, with significant increases in social gradients observed for many outcomes.

Discussion The combination of AIHA and PSGN is very rare, to our knowledge this might be the first reported case in UK. A cross reaction between antibodies induced by streptococcal infection against the red blood cells has been described as a possible mechanism. Both streptolysin O antigen and NAD–glycohydrolase (NADase) may play a role in causing haemolysis.

Intravascular haemolysis resulting in haemoglobinuria could aggravate the acute kidney injury, hence the importance of recognising this association.

Our patient’s haemolytic anaemia improved along with her renal recovery.

Conclusion In children presenting with severe anaemia in the context of PSGN, the possibility of AIHA must be considered.