To the Editors:

Re: Anaemia and iron deficiency in pregnant women attending an antenatal clinic in a Teaching Hospital in Southern Sri Lanka

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Ceylon Medical Journal 2017; 62: 255
DOI:http://doi.org/10.4038/cmj.v62i4.8582

We read with interest the article by Senadheera et al, which describe the rate of anaemia and iron deficiency in women presenting for antenatal care in a Teaching Hospital in the Galle District of Sri Lanka [1]. We agree with the content on the rate of anaemia defined as haemoglobin concentration <11g/dl however, the subsequent analysis to determine a cut-off level of serum ferritin for detection of anaemia is inaccurate. Firstly, the use of serum ferritin as a screening tool for anaemia as proposed here is controversial. Although serum ferritin is a relatively accurate test to determine iron deficiency, it cannot be used to screen for anaemia. Secondly, it seems that authors have performed this study with an assumption that the aetiology for anaemia in the study population is exclusively iron deficiency but, given the high prevalence of haemoglobinopathies, in particular thalassaemia, in Sri Lanka, this assumption is not valid.

Thalassaemia is a long standing health problem which affects every ethnic group in all districts of Sri Lanka. The National prevalence of β-thalassaemia trait is reported as 2.8% and the prevalence in the Galle District where this study was conducted 1.0%. Contrarily to previous believes, a recent island wide survey by Premawardhana et al. reported that the prevalence of α-thalassaemia trait is as high as 8.0% in Sri Lanka and that it is found in every district including Galle [2]. As reviewed by us previously, α-thalassaemia is commoner than β-thalassaemia and may in fact be as common as iron deficiency anaemia [3]. Therefore, it is highly likely that a major proportion of patients with anaemia in the study by Senadheera et al. have α-thalassaemia trait or β-thalassaemia trait. Including the cohort of patients with α-thalassaemia and β-thalassaemia trait would confound and possibly invalidate the analysis performed to determine the cut-off value of serum ferritin for detection of anaemia. More appropriate approach would be to exclude patients with haemoglobinopathies before analysing for cut-off level of serum ferritin.

Conflicts of interest
Authors declare that they have no conflicts of interest.

References