Reviewer's report

Title: Discontinuation of Thyroid Hormone Treatment Among Children in the United States with Congenital Hypothyroidism: Findings from Health Insurance Claims Data

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Reviewer: Husref F Tahirovic

Reviewer’s report:

Comments to the Author

The Manuscript by Kemper et al. is aimed to describe the rate at which children with congenital hypothyroidism in the United States discontinue thyroid hormone treatment in early childhood. This finding is original and may be interesting. The title is appropriate.

I have next suggestions:

INTRODUCTION

Page 4

1. Text: “It is not known how many children treated for CH discontinue treatment, with or without physician supervision. Children who discontinued treatment may have had either transient CH or a mild form of permanent CH” delete and put before sentence The purpose of this study was to explore………

2. Text: “The study design was a retrospective analysis of health insurance claims databases in which infants treated for CH were followed over time to determine when treatment stopped based on the lack of thyroid hormone treatment prescription refills.” delete and put on the next page before “We used health insurance claims data to conduct a retrospective cohort study of infants with presumed CH to track use of thyroid hormone treatment by individuals with continued enrollment in the same health plan.

3. Tex: “The purpose of this study was to explore the rate at which children diagnosed with CH in the US discontinue thyroid hormone treatment in early childhood.” complete with Birth Prevalence of Presumed Congenital Hypothyroidism and Relationship of Presumed CH to Sex; recommend changing to something like The purpose of this study was to explore birth prevalence of presumed CH, relationship of presumed CH to sex and the rate at which children diagnosed with CH in the US discontinue thyroid hormone treatment in early childhood.”

4. Page 5: sentence “The primary purpose was to assess rates of discontinuation of thyroid hormone treatment in early childhood” delete.

5. Pages from 5 to 8 (Section METHODS) Separate Statistical analyses from Study design.

6. Page 13: Title “Conclusions”, delete and it put below after reference [25] and
before sentence “It appears that many US children with CH may have treatment
discontinued inappropriately, although this does not appear to be the case
among children with CH managed…….

7. Page 15: Put sentence “All authors read and approved the final manuscript.“ at
the end of paragraph of Authors’ Contributions.

Thank you very much for the opportunity to review this paper.

**Level of interest:** An article of importance in its field

**Quality of written English:** Needs some language corrections before being
published

**Statistical review:** Yes, but I do not feel adequately qualified to assess the
statistics.

**Declaration of competing interests:**

'I declare that I have no competing interests’