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Information about the contributions of each person named as having participated in the study

1) Guarantor(s), i.e., person(s) who is (are) responsible for the integrity of the work as a whole: Sharon Cox, MRC International Nutrition Group, LSHTM, Sharon.Cox@LSHTM.AC.UK

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2) Authors who participated in the **conception of the study**: Sharon E Cox, Andrew M Prentice

3) **Design & Methods**. The following authors were responsible for specific investigations (please detail):

- Sharon E Cox & Anthony J Fulford & Julie Makani were responsible for data review and analysis
- Julie Makani, Kevin Marsh and Thomas N Williams were responsible for the study design of the original cohort in which this analysis is nested. Julie Makani, Deogratius Soka, Albert N Komba and Sharon Cox were responsible for quality control of data collection: clinical, anthropometric and laboratory data.

4) **Results**. The following authors were responsible for specific portions of the results, including figures and tables (please indicate the person responsible for each figure and each table):

- Sharon E Cox was responsible for Tables 1-3
- Sharon E Cox & Anthony J Fulford were responsible for Figure 1
- Sharon E Cox & Anthony J Fulford were responsible for the data analysis
 - Charles Newton, Thomas N Williams and Kevin Marsh contributed to interpretation of the data

5) **Writing the manuscript**. The following authors were responsible for writing the manuscript:

- Sharon E Cox drafted the paper
- All authors contributed to critical evaluation and final drafting of the manuscript

6) **Contributors Listed in Acknowledgments**: (Examples of those who might be acknowledged include a person who provided purely technical help, writing assistance, or a department chair who provided only general support. Corresponding authors must declare whether they had assistance with the study design, data collection, data analysis, or manuscript preparation. If such assistance was available, the authors must disclose the identity of the individuals who provided this assistance and the entity that supported it. Financial and material support should also be acknowledged.)

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