Review notes of the Sudan Micronutrient Survey Data

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1 Context

This report documents our review of the national micronutrient survey data collected by the Federal Ministry of Health of Sudan supported by UNICEF in 2018-2019. This review is meant to assess the data in preparation for analysis and reporting.

2 Data structure

Data was provided as a Microsoft Excel spreadsheet in XLSX file format with a single worksheet containing all the data. The dataset has 19450 rows and 19 columns.

Given that no data dictionary or codebook has been provided with the dataset, we explored the various variables (columns) of the dataset and attempted to define and describe these variables. The variables are:

```
##  [1] "state"     "bc"        "locality"  "psu"       "m.age"     "ch.age"
##  [7] "sex"       "muac"      "ch.weight" "ch.height" "ch.oedema" "hb"
## [13] "group"     "calcium"   "crp"       "ferritin"  "iodine"    "X18"
## [19] "X19"
```

Table 1 summarises and describes the variables and raises potential issues needing to be addressed prior to data analysis.

2.1 `state` variable

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Table 1: Summary of Sudan micronutrient data variables

Variable	Data class/type
state	character
bc	numeric
locality	numeric
psu	numeric
m.age	character
ch.age	numeric
sex	character
muac	character
ch.weight	character
ch.height	character
ch.oedema	numeric
hb	character
group	character
calcium	numeric
crp	numeric
ferritin	numeric
iodine	numeric
X18	character
X19	character