

1. *Introductory information*

- a. **Title of the dataset:** Stock dataset underlying the supply chain project in Tehrathum, Nepal.
- b. **Short description of what data it contains:** The dataset contains the reporting of stock levels by health facilities of Tehrathum district using the SMS based reporting system. Overall, 938 stock-level SMSs were received from 32 health facilities from January 2018 to December 2018. ASL (Authorized stock level) is the maximum stock level a health facility should have and represents five months of supply. Health facilities received a reminder SMS before reporting, which was due at the end of each Nepali month. Staff were trained to check the expiration date of drugs and only report stock of non-expired drugs. If the reported stock level for any given drug was below EOP (Emergency Order Point), the database would send a reply SMS notifying the facility that they were below EOP level. If the reported stock level was above ASL, a reply SMS was sent notifying the health facility that they had sufficient stock. The District Health Office Store-Keeper and the Municipal Health Coordinator for each of the six municipalities in Tehrathum received messages on their mobile phones if a facility in their catchment area fell below EOP.
- c. **Contact information:** Surya Bhatta (surya@oneheartworldwide.org)

2. *Methodological information*

- a. **Method description for collecting or generating the data, as well as the methods for processing data:**

We used a mixed method case study approach to provide a detailed understanding of the implementation of mobile-based applications for supply chain management of three essential drugs. For the quantitative part of the study, we looked at the availability and stock status of 3 essential drugs in all 32 health facilities of Terhathum district. Of the 32 health facilities, 15 were birthing centers (including the District Hospital and two Primary Health Care Centers), and the remaining 17 were non-birthing centers. Thus, the stock of Oxytocin was recorded only in 15 birthing centers. The stock data sent monthly by the health facilities were received in the OHW database. We then downloaded the data received during the implementation period, i.e. from January 2018 to December 2018 for the quantitative analysis. Simple descriptive statistics (frequency and percentage) were performed to analyze the stock reports received in the database.
- b. **Any instrument-specific information needed to understand or interpret the data:**

Stock status was reported by a simple text message that included the drug abbreviation and the stock level in the appropriate units of tubes, pills, or International Unit (IU) dose with the letter 'R' at the beginning of each text to alert the application of a stock report. Each drug's stock level was reported via a separate SMS. Non-birthing-center-certified health facilities only reported stock levels of Misoprostol and Chlorhexidine because only birthing centers are allowed to administer oxytocin. Birthing centers

reported stock of all three drugs (Misoprostol, Chlorhexidine, and Oxytocin) each month.

- c. Software (including version number) used to produce, prepare, render, compress, analyze and/or needed to read the dataset, if applicable: NA
- d. Standards and calibration information, if appropriate: NA
- e. Describe any quality-assurance procedures performed on the data: NA
- f. Definitions of codes or symbols used to note or characterize low quality/questionable/outliers that people should be aware: NA

3. Data specific information

a. Full names and definitions (spell out abbreviated words) of column headings for tabular data:

ASL- Authorized Stock Level

EOP- Emergency Order Point

HF Name- Health Facility Name

STOCK- stock level

Status: Green stands for Above ASL, yellow stands for sufficient stock, and red stands for below EOP

- b. Units of measurement: Frequency
- c. Definitions for codes or symbols used to record missing data: NA
- d. Specialized formats or abbreviations used

4. Sharing and Access information

- a. Licenses or restrictions placed on the data: CCO