

# 19.12. UNFPA LMA reports app

## What is it?

Some [UNFPA](#) users are periodically required to produce [Last Mile Assurance \(LMA\)](#) reports. These can be time consuming and difficult to produce manually so we've created an app for that!

This app runs on the central server of your mSupply installation and will create a selection of UNFPA formatted LMA reports as spreadsheet files for you; all you have to do is make some selections to define what transactions and stock should be included in the reports.

The reports take data from the mSupply dashboard and generates excel reports in pre-defined templates. The mSupply server exports data to the mSupply dashboard periodically. The frequency with which data is exported from the mSupply server to the mSupply dashboard will impact on how closely the data in the LMA app matches the data in the mSupply desktop application.

## Setup

### Store tags

For the purposes of the LMA reports, mSupply needs to know which of the stores in your datafile are the 'Central store' and which are 'Decentralised stores'. You do this by adding appropriate [store tags](#) to the stores:

- 'Central store' must be given the UNFPA\_Central store tag
- 'Decentralised stores' must be given the UNFPA\_decentralised store tag

For details of how to add tags to stores, please see the [Store tags](#) page.

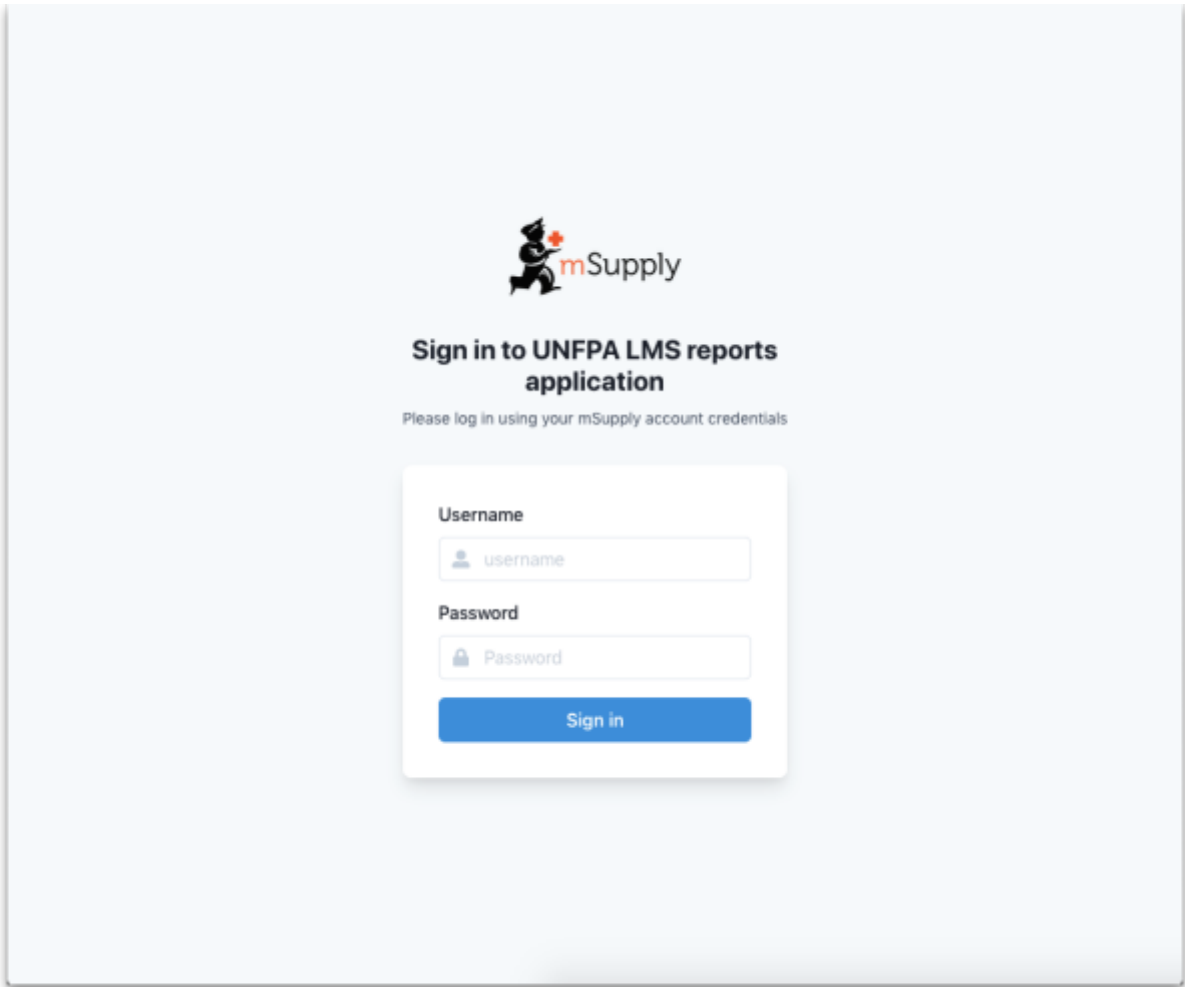
## Using the app

To get to the app, the webserver must be running in mSupply (see the [Server tab](#) page for details on that).

In your browser, enter the URL of your server followed by the port the app is running on (if you don't know what this is, ask the mSupply Foundation [support@msupply.foundation](mailto:support@msupply.foundation). It should be something like this:

```
https://example.com:4000
```

The login window will load which looks like this:



To login enter your mSupply username and password in the **Username** and **Password** fields and click on the **Sign in** button.

After successfully logging in, the report options window will be displayed:

The screenshot shows the 'UNFPA reports' interface. At the top left is the 'mSupply' logo and at the top right is a user profile icon. The main content area is titled 'UNFPA reports'. Below the title are four sections for configuring a report:

- Report to create:** A dropdown menu with the placeholder text 'Select a report type'.
- Include transactions in this date range in the report:** Two date pickers labeled 'From' and 'To', both showing 'February 17, 2022'.
- Items to include in report:** A dropdown menu with the placeholder text 'Select master-list'.
- Include stock from these donors in the report:** A dropdown menu with the selected option 'None (all stock)' and a clear button 'X'.

At the bottom of the form is a large 'Create Report' button.

On this window, make your selections to define what will go in your report:

- **Report to create drop down list:** Select one of the following options:
  - Quarterly review report
  - LMA IP SC Fact Sheet report
  - Stock on date
  - Ledger
- **Include transactions in this date range in the report fields:** click on the **From** and **To** dates to select the dates from calendars. Only transactions with a confirmed date that falls between the **From** and **To** dates will be included in the report.
- **Items to include in report drop down list:** Contains a list of all the master lists in your datafile. Select one to include only items from that master list in the report.
- **Include stock from these donors in the report drop down list:** You can choose one or more donors - if you do then only stock that came from them will be included in the report. You can also choose *None* (the default option), in which case a donor filter will not be applied.

If you select any report in the **Report to create** drop down list *EXCEPT* the **Quarterly review report**, an additional store filter is added to the bottom of the options:

Include data from these stores in the report:  
**Filter stores by tag**

Select or search tags ▼

All on/off

| CODE              | NAME                 | TAGS      | SELECTED                 |
|-------------------|----------------------|-----------|--------------------------|
| 03030100          | AGEVAIRU SC          |           | <input type="checkbox"/> |
| 03030200          | AKUFA SC             |           | <input type="checkbox"/> |
| 13020100          | ALEXISHAFEN HC       |           | <input type="checkbox"/> |
| 09070300          | ALKENA SC            |           | <input type="checkbox"/> |
| 050102_Dispensary | Alotau GH Dispensary |           | <input type="checkbox"/> |
| 050102_Main_Store | Alotau GH Main Store | dashboard | <input type="checkbox"/> |
| Malaria_Alotau    | Alotau Malaria Store |           | <input type="checkbox"/> |
| 120502-Dental     | AMGH Dental Clinic   |           | <input type="checkbox"/> |
| 120502-Dispensary | AMGH Dispensary      |           | <input type="checkbox"/> |
| 120502-Main store | AMGH Main store      | dashboard | <input type="checkbox"/> |

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The table shows a list of all the stores in your datafile.

- To make it more manageable you can choose to display only stores with particular tags by selecting them in the **Filter stores by tag** drop down list.
- If there are many stores, you can use the paging controls at the bottom of the window to move through the different pages and choose how many stores to display on each page.

Click on the *SELECTED* column checkbox to select a store to include in the report. You can click on the **All on/off** checkbox to toggle the *SELECTED* checkbox on and off for all stores on all pages at once. Only transactions and stock from the stores that have a check in the *SELECTED* checkbox will be included in the report.

When you are happy with your selections, click on the **Create Report** button to create the report. mSupply will tell you the report is being generated and will ask you where to save it or which application to open it with when it is finished. The files generated are .xlsx format spreadsheets.



Some of the reports do a huge amount of work and calculation so can take a long time to run, especially if you have chosen a lot of stores, a lot of items or a long period to be included in the report. So make yourself a good cup of coffee and go do something else

for a while. Better that the computer does all the hard work instead of you, right?



# Example report outputs

## Quarterly review report

| Country                                                    | Papua New Guinea                                          |                                                     |            |                 |                                         |                  |                                   |                          |                                  |                                   |                                                              |                        |
|------------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------|------------|-----------------|-----------------------------------------|------------------|-----------------------------------|--------------------------|----------------------------------|-----------------------------------|--------------------------------------------------------------|------------------------|
| Store                                                      | RH Central Store                                          |                                                     |            |                 |                                         |                  |                                   |                          |                                  |                                   |                                                              |                        |
| Date From                                                  | Fri Jan 01 2021 00:00:00 GMT+1000 (Papua New Guinea Time) |                                                     |            |                 |                                         |                  |                                   |                          |                                  |                                   |                                                              |                        |
| Date To                                                    | Fri Dec 31 2021 23:59:59 GMT+1000 (Papua New Guinea Time) |                                                     |            |                 |                                         |                  |                                   |                          |                                  |                                   |                                                              |                        |
| Commodity Planning Quarterly Review 2021                   |                                                           |                                                     |            |                 |                                         |                  |                                   |                          |                                  |                                   |                                                              |                        |
| Commodity                                                  | Commodity Type                                            | Commodity sub-type                                  | Product ID | Unit of Measure | Stock on Hand (SOH) - Inventory Balance | Stock Count Date | Average Monthly Consumption (AMC) | Source of Inventory Data | Supply Chain Level for Inventory | Months Of Stock (MOS) Calculation | Pipeline Orders/Orders in-transit (UNFPA Supplies programme) | Pipeline Orders (unok) |
| XIV Hormones, Other Endocrine Medicines and Contraceptives | Contraceptives                                            | Ethinylestradiol 30mcg + Levonorgestrel 150mcg Tab. | 11410020   | Pkt             | 0                                       | Fri Dec 31 2021  | 19,672.61                         | mSupply                  | Central level only               | 0                                 | 0                                                            | 0                      |

## LMA IP SC Fact Sheet report

| Supply Chain Fact Sheet - Stock Outs Level Summary                                   |                                 |           |                                  |           |          |
|--------------------------------------------------------------------------------------|---------------------------------|-----------|----------------------------------|-----------|----------|
| Stockout levels                                                                      |                                 |           |                                  |           |          |
| Please provide information and details on key products stockouts at CW and SDP level |                                 |           |                                  |           |          |
| Key products                                                                         | Current Year Stockout Ratio (%) |           | Previous Year Stockout Ratio (%) |           | Comments |
|                                                                                      | Central Level                   | SDP Level | Central Level                    | SDP Level |          |
| Amoxicillin Capsules, 500mg                                                          | 0                               | 0         | 19.51                            | 0         |          |
| Azithromycin Tab., 500mg                                                             | 0                               | 20        | 24.49                            | 0         |          |
| Bag, Urine Collecting, with Tap and Valve, 2L                                        | 0                               | 0         | 28.33                            | 0         |          |
| Benzyl Penicillin, Inj., 1 million IU, 600mg                                         | 0                               | 0         | 21.1                             | 0         |          |
| Chloramphenicol Capsules, 250mg                                                      | 0                               | 20        | 21.64                            | 0         |          |
| Chloramphenicol Sodium Succinate Inj., 1g                                            | 0                               | 0         | 34.03                            | 0         |          |
| Ciprofloxacin Tab., 250mg                                                            | 0                               | 20        | 23.73                            | 0         |          |
| Doxycycline Tab., 100mg                                                              | 0                               | 40        | 26.9                             | 0         |          |
| Dressing, Combined, 8cm x 10cm                                                       | 0                               | 20        | 37.26                            | 0         |          |
| Fluclazacilin Capsule, 500mg                                                         | 0                               | 0         | 18.08                            | 0         |          |
| Fluclazacilin Capsules, 250mg                                                        | 0                               | 0         | 19.62                            | 0         |          |
| Fluclazacilin Inj., 500mg                                                            | 0                               | 60        | 58.19                            | 0         |          |
| Gauze, Absorbent, 100cm x 6cm                                                        | 0                               | 1.67      | 36.6                             | 0         |          |
| Gentamicin Injection, 80mg in 2ml                                                    | 0                               | 0         | 35.23                            | 0         |          |
| Gentamicin Paediatric Inj., 20mg in 2ml                                              | 0                               | 0         | 58.63                            | 0         |          |
| Glove, Examination, Latex, Non-Sterile, Large, Pa                                    | 0                               | 20        | 34.08                            | 0         |          |
| Glove, Examination, Latex, Non-Sterile, Medium                                       | 0                               | 0         | 33.04                            | 0         |          |
| Glove, Post Mortem, Size 7                                                           | 0                               | 40        | 60.82                            | 0         |          |
| Glucose 2.5% in Half Strength Barrows Soln.                                          | 0                               | 0         | 22.47                            | 0         |          |
| Hydrocortisone Sodium Succinate Inj., 100mg + 0                                      | 0                               | 0         | 48.92                            | 0         |          |
| Metronidazole IV, Inj., 500mg/100ml                                                  | 0                               | 20        | 30.68                            | 0         |          |
| Paracetamol Suppository, 125mg, Pack/20                                              | 0                               | 11.25     | 21.15                            | 0         |          |
| Paracetamol Suppository, 250mg, Pack/20                                              | 0                               | 0         | 41.32                            | 0         |          |
| Paracetamol Tab., 500mg                                                              | 0                               | 0         | 23.12                            | 0         |          |
| Plaster, Adhesive, 2.5cm x 5cm                                                       | 0                               | 0         | 18.52                            | 0         |          |
| Plaster, Adhesive, Latx, 2.5cm x 3cm                                                 | 0                               | 40        | 25.7                             | 0         |          |
| Sodium Chloride Inj., 0.9%, 1L                                                       | 0                               | 0         | 21.75                            | 0         |          |
| Trimethoprim 40mg + Sulfamethoxazole 200mg                                           | 0                               | 25.75     | 23.62                            | 0         |          |
| Trimethoprim 80mg + Sulfamethoxazole 400mg                                           | 0                               | 26.67     | 36.41                            | 0         |          |
| Average                                                                              | 0                               | 0         | 0                                | 0         |          |

## Stock on date report

| Store    | Item Code | UNFPA Item Code | Item Name                                     | Supplier | Batch    | Expiry date | Donor | Pack size | Number of packs | Price per pack (Local) | Price per pack (USD) | Total pieces | Total value (USD) |
|----------|-----------|-----------------|-----------------------------------------------|----------|----------|-------------|-------|-----------|-----------------|------------------------|----------------------|--------------|-------------------|
| 1031100  | 1031100   |                 | Amoxicillin Capsules, 500mg                   | UNFPA    | 141010   | 10/30/2017  |       | 100       | 4,972           | 7.65                   | \$2.18               | 497,200      | \$10,838.96       |
| 1031100  | 1031100   |                 | Amoxicillin Capsules, 500mg                   | UNFPA    | 170354   | 03/30/2020  |       | 100       | 230             | 8.46                   | \$2.41               | 23,000       | \$554.30          |
| 1031100  | 1031100   |                 | Amoxicillin Capsules, 500mg                   | UNFPA    | 1707006  | 07/31/2020  |       | 100       | 360             | 8.46                   | \$2.41               | 36,000       | \$867.60          |
| 1031100  | 1031100   |                 | Amoxicillin Capsules, 500mg                   | UNFPA    | 1707013  | 07/30/2020  |       | 100       | 2,019           | 15.00                  | \$4.28               | 201,900      | \$8,641.32        |
| 1031100  | 1031100   |                 | Amoxicillin Capsules, 500mg                   | UNFPA    | 2007519  | 07/30/2023  |       | 100       | 150             | 3.00                   | \$0.86               | 0            | \$0.00            |
| 1031100  | 1031100   |                 | Amoxicillin Capsules, 500mg                   | UNFPA    | 2008516  | 08/30/2023  |       | 100       | 250             | 6.00                   | \$1.71               | 20,000       | \$342.00          |
| 1031100  | 1031100   |                 | Amoxicillin Capsules, 500mg                   | UNFPA    | 2008527  | 08/30/2023  |       | 100       | 800             | 1.00                   | \$0.29               | 0            | \$0.00            |
| 1031100  | 1031100   |                 | Amoxicillin Capsules, 500mg                   | UNFPA    | 2008534  | 08/30/2023  |       | 100       | 650             | 2.00                   | \$0.57               | 0            | \$0.00            |
| 1031100  | 1031100   |                 | Amoxicillin Capsules, 500mg                   | UNFPA    | 5797197  | 10/30/2020  |       | 100       | 2,300           | 17.84                  | \$5.09               | 230,000      | \$11,707.00       |
| 1031100  | 1031100   |                 | Amoxicillin Capsules, 500mg                   | UNFPA    | 5797199  | 10/30/2020  |       | 100       | 5,500           | 17.84                  | \$5.09               | 550,000      | \$27,995.00       |
| 1031100  | 1031100   |                 | Amoxicillin Capsules, 500mg                   | UNFPA    | 5797201  | 10/30/2020  |       | 100       | 900             | 17.84                  | \$5.09               | 90,000       | \$4,581.00        |
| 1031100  | 1031100   |                 | Amoxicillin Capsules, 500mg                   | UNFPA    | SE016C01 | 02/28/2023  |       | 100       | 1,490           | 0.00                   | \$0.00               | 0            | \$0.00            |
| 10530110 | 10530110  |                 | Azithromycin Tab., 500mg                      | UNFPA    | 590916   | 09/30/2022  |       | 100       | 730             | 1.00                   | \$0.29               | 0            | \$0.00            |
| 10530110 | 10530110  |                 | Azithromycin Tab., 500mg                      | UNFPA    | ADFH0144 | 07/30/2019  |       | 3         | 2,160           | 1.14                   | \$0.33               | 6,480        | \$712.80          |
| 10530110 | 10530110  |                 | Azithromycin Tab., 500mg                      | UNFPA    | ADFH0148 | 08/30/2020  |       | 3         | 9,477           | 0.03                   | \$0.01               | 28,431       | \$94.77           |
| 10530110 | 10530110  |                 | Azithromycin Tab., 500mg                      | UNFPA    | E01038   | 04/30/2022  |       | 3         | 25              | 0.00                   | \$0.00               | 0            | \$0.00            |
| 10530110 | 10530110  |                 | Azithromycin Tab., 500mg                      | UNFPA    | G704743  | 07/30/2019  |       | 3         | 20,198          | 1.14                   | \$0.33               | 60,594       | \$6,665.34        |
| 10530110 | 10530110  |                 | Azithromycin Tablets, 500mg                   | UNFPA    | E01038   | 09/30/2022  |       | 3         | 20              | 2.00                   | \$0.57               | 30           | \$5.70            |
| 20400080 | 20400080  |                 | Bag, Urine Collecting, with Tap and Valve, 2L | UNFPA    | 52100601 | 01/30/2026  |       | 1         | 175             | 0.00                   | \$0.00               | 0            | \$0.00            |
| 20400080 | 20400080  |                 | Bag, Urine Collecting, with Tap and Valve, 2L | UNFPA    | N177010  | 05/30/2021  |       | 1         | 2,800           | 3.95                   | \$1.13               | 2,800        | \$3,164.00        |
| 20400080 | 20400080  |                 | Bag, Urine Collecting, with tap and valve, 2L | UNFPA    | 52014212 | 01/30/2026  |       | 1         | 5               | 0.00                   | \$0.00               | 5            | \$0.00            |
| 10530130 | 10530130  |                 | Benzyl Penicillin, Inj., 1 million IU, 600mg  | UNFPA    | 500808   | 08/30/2023  |       | 1         | 6,250           | 0.00                   | \$0.00               | 0            | \$0.00            |
| 110400   | 110400    |                 | Chloramphenicol Capsules, 250mg               | UNFPA    | 191238   | 12/30/2022  |       | 100       | 100             | 6.00                   | \$1.71               | 0            | \$0.00            |
| 110400   | 110400    |                 | Chloramphenicol Capsules, 250mg               | UNFPA    | 5020211  | 02/28/2023  |       | 100       | 6,876           | 2.00                   | \$0.57               | 551,600      | \$3,144.12        |
| 110400   | 110400    |                 | Chloramphenicol Capsules, 250mg               | UNFPA    | C-79001  | 01/30/2021  |       | 100       | 1,181           | 24.55                  | \$7.00               | 118,100      | \$8,267.00        |
| 110400   | 110400    |                 | Chloramphenicol Capsules, 250mg               | UNFPA    | XC90008  | 10/30/2022  |       | 100       | 20              | 5.00                   | \$1.43               | 0            | \$0.00            |
| 10530210 | 10530210  |                 | Chloramphenicol Sodium Succinate Inj., 1g     | UNFPA    | 170372   | 03/30/2020  |       | 1         | 29,600          | 0.78                   | \$0.22               | 29,600       | \$6,512.00        |
| 10530210 | 10530210  |                 | Chloramphenicol Sodium Succinate Inj., 1g     | UNFPA    | 170372   | 03/30/2020  |       | 1         | 14              | 0.78                   | \$0.22               | 14           | \$3.08            |
| 10530210 | 10530210  |                 | Chloramphenicol Sodium Succinate Inj., 1g     | UNFPA    | 170372   | 03/30/2020  |       | 1         | 20,000          | 0.78                   | \$0.22               | 20,000       | \$4,400.00        |
| 10530210 | 10530210  |                 | Chloramphenicol Sodium Succinate Inj., 1g     | UNFPA    | 170372   | 06/30/2020  |       | 1         | 6,900           | 0.78                   | \$0.22               | 6,900        | \$1,518.00        |
| 10530210 | 10530210  |                 | Chloramphenicol Sodium Succinate Inj., 1g     | UNFPA    | 171223   | 12/30/2020  |       | 1         | 10,000          | 3.00                   | \$0.86               | 10,000       | \$8,600.00        |
| 10530210 | 10530210  |                 | Chloramphenicol Sodium Succinate Inj., 1g     | UNFPA    | 20CG08   | 04/30/2023  |       | 1         | 100             | 1.00                   | \$0.29               | 0            | \$0.00            |
| 10530210 | 10530210  |                 | Chloramphenicol Sodium Succinate Inj., 1g     | UNFPA    | K85118   | 12/30/2020  |       | 1         | 17,000          | 6.95                   | \$1.98               | 17,000       | \$33,660.00       |

## Ledger report

| Item ledger report 2021-01-01 to 2021-03-01. Store: <span style="background-color: #cccccc;"> </span> |            |                  |                      |           |       |         |             |           |                 |                        |                      |              |                   |                      |                           |                |                                            |
|-------------------------------------------------------------------------------------------------------|------------|------------------|----------------------|-----------|-------|---------|-------------|-----------|-----------------|------------------------|----------------------|--------------|-------------------|----------------------|---------------------------|----------------|--------------------------------------------|
| Amoxicillin Capsules, 500mg (103100)                                                                  |            |                  |                      |           |       |         |             |           |                 |                        |                      |              |                   |                      |                           |                |                                            |
| Date                                                                                                  | Trans. No. | Transaction Type | Transaction Sub-type | To / From | Donor | Batch   | Expiry date | Pack size | Number of packs | Price per pack (Local) | Price per pack (USD) | Total pieces | Total value (USD) | Running total pieces | Running total value (USD) | From / To Code | Geographic region covered by the recipient |
| 2021-01-01                                                                                            |            | Opening Balance  |                      |           |       | 141010  | 10/30/2017  | 100       | -50             | 8                      | \$2.18               | -5000        | -\$109.08         | -5000                | -\$109.08                 |                |                                            |
| 2021-03-01                                                                                            |            | Closing balance  |                      |           |       | 141010  | 10/30/2017  | 100       | 50              | 7.65                   | \$2.18               | 5000         | \$109.08          | 0                    | \$0.00                    |                |                                            |
| Chloramphenicol Capsules, 250mg (110400)                                                              |            |                  |                      |           |       |         |             |           |                 |                        |                      |              |                   |                      |                           |                |                                            |
| Date                                                                                                  | Trans. No. | Transaction Type | Transaction Sub-type | To / From | Donor | Batch   | Expiry date | Pack size | Number of packs | Price per pack (Local) | Price per pack (USD) | Total pieces | Total value (USD) | Running total pieces | Running total value (USD) | From / To Code | Geographic region covered by the recipient |
| 2021-01-01                                                                                            |            | Opening Balance  |                      |           |       |         |             | 100       | -50             | 0                      | \$0.00               | -5000        | \$0.00            | -5000                | \$0.00                    |                |                                            |
| 2021-03-01                                                                                            |            | Closing balance  |                      |           |       |         |             | 100       | 50              | 0.00                   | \$0.00               | 5000         | \$0.00            | 0                    | \$0.00                    |                |                                            |
| Paracetamol Suppository, 250mg, Pack/20 (145400)                                                      |            |                  |                      |           |       |         |             |           |                 |                        |                      |              |                   |                      |                           |                |                                            |
| Date                                                                                                  | Trans. No. | Transaction Type | Transaction Sub-type | To / From | Donor | Batch   | Expiry date | Pack size | Number of packs | Price per pack (Local) | Price per pack (USD) | Total pieces | Total value (USD) | Running total pieces | Running total value (USD) | From / To Code | Geographic region covered by the recipient |
| 2021-01-01                                                                                            |            | Opening Balance  |                      |           |       | 7002006 | 03/30/2019  | 1         | -1              | 2                      | \$0.69               | -1           | -\$0.69           | -1                   | -\$0.69                   |                |                                            |
| 2021-03-01                                                                                            |            | Closing balance  |                      |           |       | 7002006 | 03/30/2019  | 1         | 1               | 2.43                   | \$0.69               | 1            | \$0.69            | 0                    | \$0.00                    |                |                                            |
| Benzyl Penicillin, Inj., 1 million IU, 600mg (10530130)                                               |            |                  |                      |           |       |         |             |           |                 |                        |                      |              |                   |                      |                           |                |                                            |

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