

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 mSupply 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.

So, for the app to reliably generate data, all three services need to be operating:

- mSupply server
- mSupply dashboard
- UNFPA LMA reports app
- mSupply Web server - refer [Server tab](#) page for details.

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:

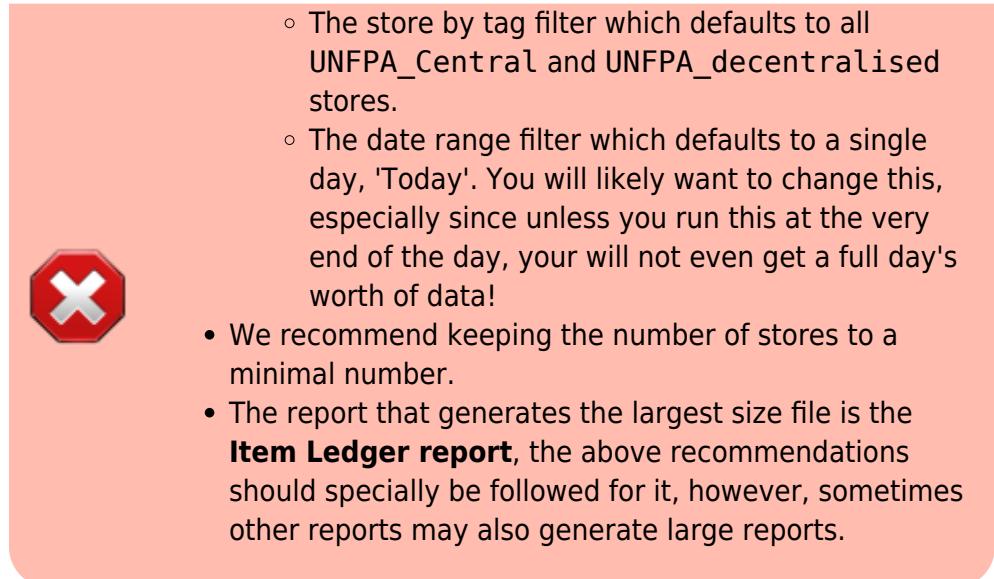
- 'Central store' must be given the `UNFPA_Central` store tag
- 'Decentralised stores' must be given the `UNFPA_decentralised` store tag

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

Using the app



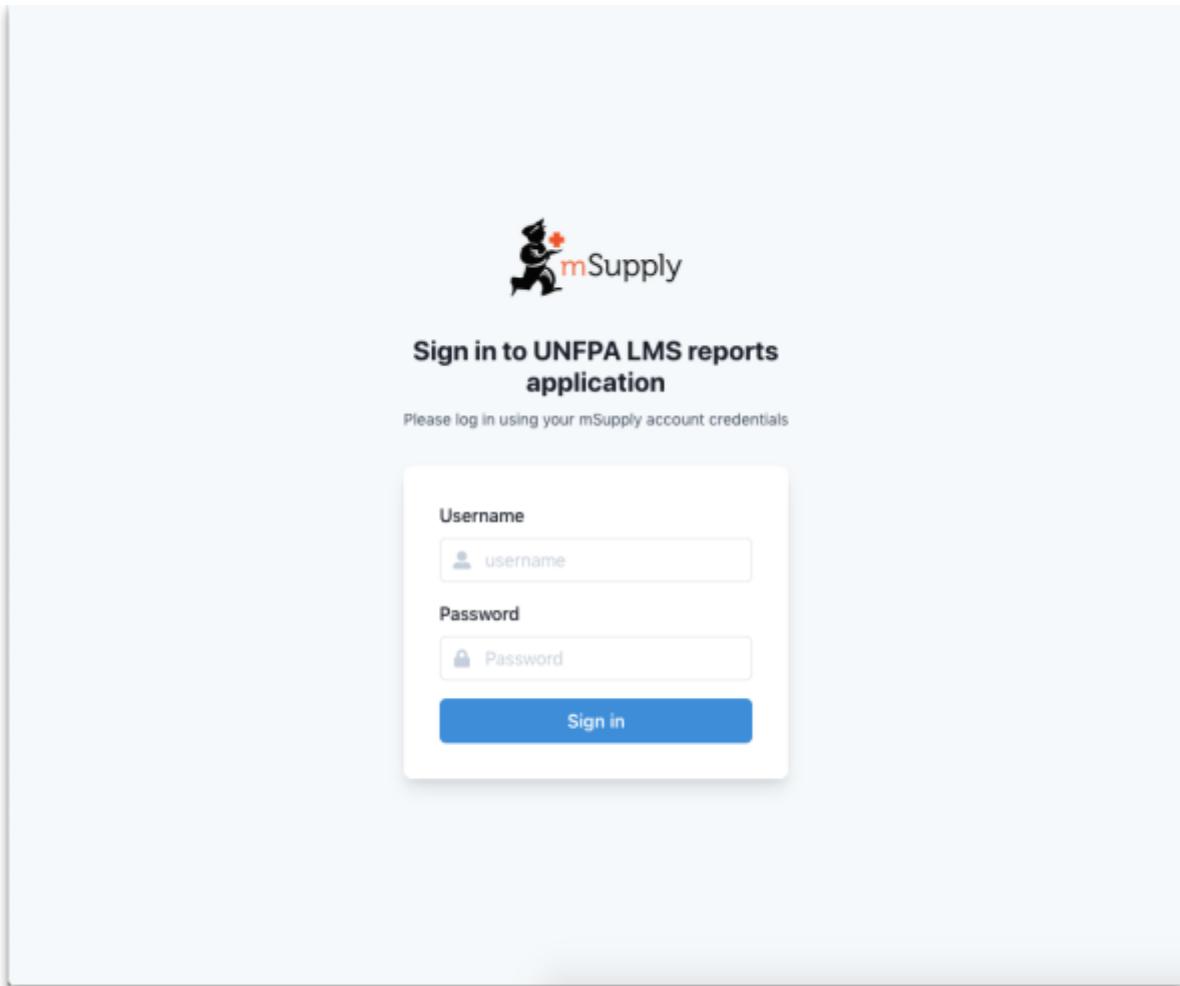
- Since this is a web application, it cannot generate reports larger than 6 MB in size. If the report exceeds 6 MB in size, the generation process could fail.
- We recommend using the filters (date, master-list and donors) to reduce the size of reports. Leaving these filters blank would include *all* data, except for:



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). 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:

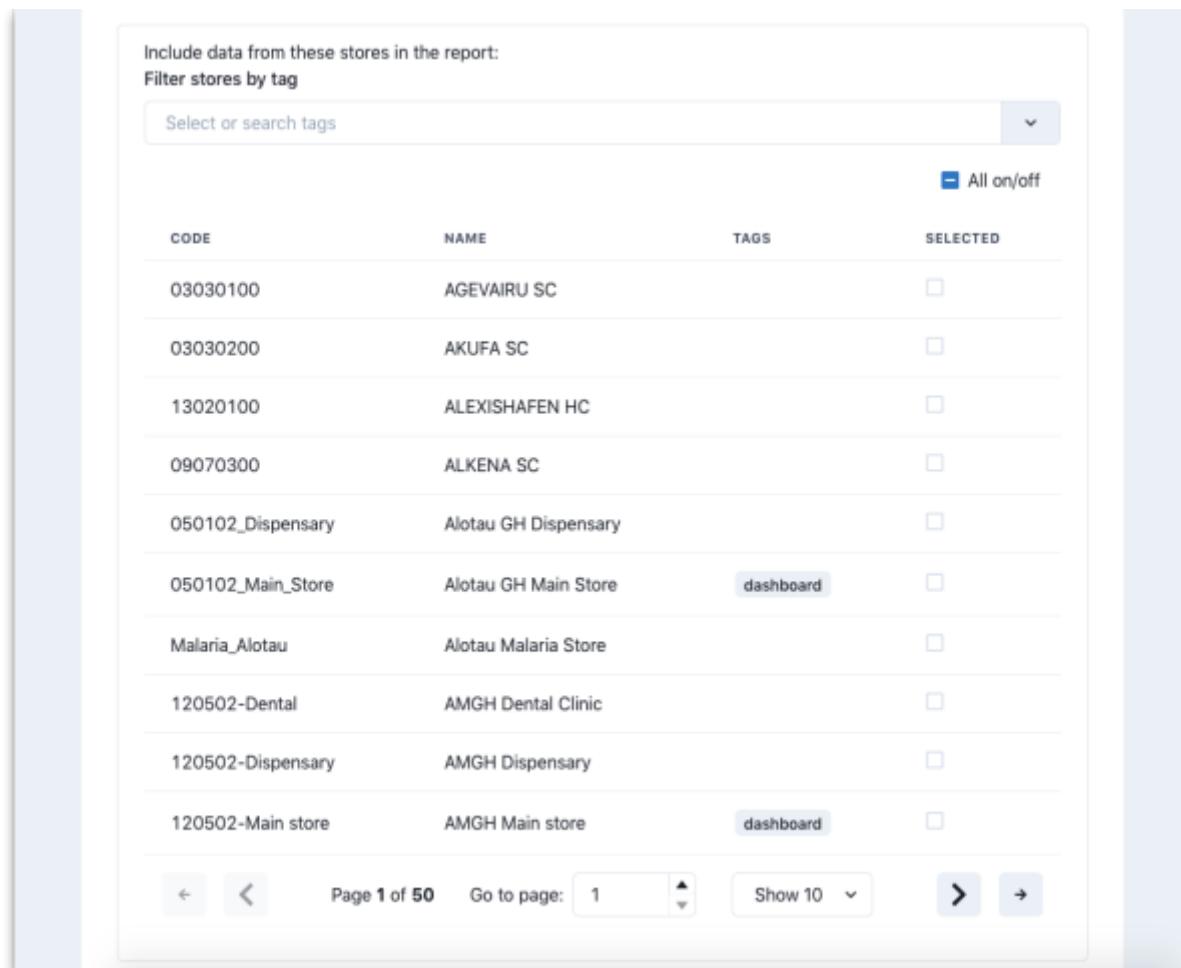
The screenshot shows the 'UNFPA reports' window. At the top left is the mSupply logo. At the top right is a user profile icon. The main title is 'UNFPA reports'. Below it is a section for 'Report to create' with a dropdown menu 'Select a report type'. Under 'Include transactions in this date range in the report', there are 'From' and 'To' date fields both set to 'February 17, 2022'. Under 'Items to include in report', there is a dropdown menu 'Select master-list'. Under 'Include stock from these donors in the report', there is a dropdown menu with 'None (all stock)' selected. At the bottom 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, and *all* transactions will be included.
- Store selection
 - If you selected the **Quarterly review report**, then it is only run on the Centralized stores and you are not given a list of stores to include. If no stores are tagged as

Centralized, then this report is likely to fail.

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



The screenshot shows a table of stores with columns for Code, Name, Tags, and Selected. An 'All on/off' checkbox is at the top. A 'Selected' column contains checkboxes for each store. Some stores have a 'Tags' column to the right of 'Selected'. Paging controls at the bottom show 'Page 1 of 50' and 'Show 10'.

Include data from these stores in the report: Filter stores by tag			
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"/>

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 (under programme)
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					Comments
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	
Amoxycillin Capsules, 500mg	0	0	19.51	14.49	
Aspirin Tablets, 500mg	0	0	24.39	28.33	
Bag, Urine Collecting, with Tap and Valve, 2L	0	20	0	21.1	
Benzyl Penicillin, Inj., 1 million IU, 600mg	0	0	21.64		
Chloramphenicol Capsules, 250mg	0	20	0	24.73	
Chloramphenicol Sodium Succinate Inj., 1g	0	0	23.73		
Ciprofloxacin Tab., 500mg	0	20	0	26.9	
Doxycycline Tab., 100mg	0	40	0	37.26	
Dressing, Combined, 9cm x 10m	0	20	0	18.08	
Fluclotaxillin Capsule, 500mg	0	0	19.52		
Fluclotaxillin Inj., 250mg	0	60	0	58.19	
Fluclotaxillin Inj., 500mg	0	1.67	0	36.6	
Gauze, Absorbent, 100cm x 6m	0	0	35.23		
Gentamicin Injection, 80mg in 2ml	0	0	58.63		
Gentamicin Paediatric Inj., 20mg in 2ml	0	0	14.79		
Glove, Examination, Latex, Non-Sterile, Large, Pkt	0	70	0	33.04	
Glove, Examination, Latex, Non-Sterile, Medium	0	40	0	60.82	
Glove, Post Mortem, Size 7	0	0	22.47		
Glucose 2.5% in Half Strength Darrow Soln., 50	0	0	49.52		
Hydrocortisone 1% Cream, 500g in 100g + 0	0	20	0	30.68	
Metformin 1% Inj., 500mg/100ml	0	0	21.15		
Paracetamol Suppository, 125mg, Pack/20	0	20	0	41.32	
Paracetamol Suppository, 250mg, Pack/20	0	0	23.12		
Paracetamol Tab., 500mg	0	0	18.52		
Plaster, Adhesive, Lat., 7.5cm x 3m	0	40	0	29.7	
Sodium Chloride Inj., 0.9%, 1L	0	0	21.75		
Trimethoprim 40mg + Sulfamethoxazole 200mg	18.75	0	23.62		
Trimethoprim 80mg + Sulfamethoxazole 400mg	21.67	0	34.41		
Average	0	0	0	...	

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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)
	103100		Amoxycillin Capsules, 500mg	Business Pacific - Pharmacy	141010	10/30/2017		100	4,972	7.65	\$2.18	497,200	\$10,838.96
	103100		Amoxycillin Capsules, 500mg	Business Pacific - Pharmacy	170354	03/30/2020		100	230	8.46	\$2.41	23,000	\$554.30
	103100		Amoxycillin Capsules, 500mg	Business Pacific - Pharmacy	1707006	07/31/2020		100	360	8.46	\$2.41	36,000	\$867.60
	103100		Amoxycillin Capsules, 500mg	Business Pacific - Pharmacy	1707013	07/30/2020		100	2,019	15.00	\$4.28	201,900	\$8,641.32
	103100		Amoxycillin Capsules, 500mg	Business Pacific - Pharmacy	2007519	07/30/2023		100	150	3.00	\$0.86	0	\$0.00
	103100		Amoxycillin Capsules, 500mg	Business Pacific - Pharmacy	2008516	08/30/2023		100	250	6.00	\$1.71	20,000	\$342.00
	103100		Amoxycillin Capsules, 500mg	Business Pacific - Pharmacy	2008527	08/30/2023		100	800	1.00	\$0.29	0	\$0.00
	103100		Amoxycillin Capsules, 500mg	Business Pacific - Pharmacy	2008534	08/30/2023		100	650	2.00	\$0.57	0	\$0.00
	103100		Amoxycillin Capsules, 500mg	Business Pacific - Pharmacy	5797197	10/30/2020		100	2,300	17.84	\$5.09	230,000	\$11,707.00
	103100		Amoxycillin Capsules, 500mg	Business Pacific - Pharmacy	5797199	10/30/2020		100	5,500	17.84	\$5.09	550,000	\$27,995.00
	103100		Amoxycillin Capsules, 500mg	Business Pacific - Pharmacy	5797201	10/30/2020		100	900	17.84	\$5.09	90,000	\$4,581.00
	103100		Amoxycillin Capsules, 500mg	Business Pacific - Pharmacy	SE016C01	02/28/2023		100	1,490	0.00	\$0.00	0	\$0.00
	10530110		Azithromycin Tab., 500mg	Business Pacific - Pharmacy	190916	09/30/2022		100	730	1.00	\$0.29	0	\$0.00
	10530110		Azithromycin Tab., 500mg	Business Pacific - Pharmacy	ADFH0144	07/30/2019		3	2,160	1.14	\$0.33	6,480	\$712.80
	10530110		Azithromycin Tab., 500mg	Business Pacific - Pharmacy	ADFH0148	08/30/2020		3	9,477	0.03	\$0.01	28,431	\$94.77
	10530110		Azithromycin Tab., 500mg	Business Pacific - Pharmacy	E01038	04/30/2022		3	25	0.00	\$0.00	0	\$0.00
	10530110		Azithromycin Tab., 500mg	Business Pacific - Pharmacy	G704743	07/30/2019		3	20,198	1.14	\$0.33	60,594	\$16,665.34
	10530110		Azithromycin Tablets, 500mg	Business Pacific - Pharmacy	E01038	09/30/2022		3	20	2.00	\$0.57	30	\$5.70
	20400080		Bag, Urine Collecting, with Tap and Valve, 2L	Business Pacific - Pharmacy	22100601	01/30/2026		1	175	0.00	\$0.00	0	\$0.00
	20400080		Bag, Urine Collecting, with Tap and Valve, 2L	Business Pacific - Pharmacy	N17F010	05/30/2021		1	2,800	3.95	\$1.13	2,800	\$3,164.00
	20400080		Bag, Urine Collecting, with tap and valve, 2L	Business Pacific - Pharmacy	22014212	01/30/2026		1	5	0.00	\$0.00	5	\$0.00
	10530130		Benzyl Penicillin, Inj., 1 million IU, 600mg	Business Pacific - Pharmacy	200808	08/30/2023		1	6,250	0.00	\$0.00	0	\$0.00
	110400		Chloramphenicol Capsules, 250mg	Business Pacific - Pharmacy	191238	12/30/2022		100	100	6.00	\$1.71	0	\$0.00
	110400		Chloramphenicol Capsules, 250mg	Business Pacific - Pharmacy	2002011	02/28/2023		100	6,876	2.00	\$0.57	551,600	\$3,144.12
	110400		Chloramphenicol Capsules, 250mg	Business Pacific - Pharmacy	C-79001	01/30/2021		100	1,181	24.55	\$7.00	118,100	\$8267.00
	110400		Chloramphenicol Capsules, 250mg	Business Pacific - Pharmacy	XC9K008	10/30/2022		100	20	5.00	\$1.43	0	\$0.00
	10530210		Chloramphenicol Sodium Succinate Inj.,1g	Business Pacific - Pharmacy	170372	03/30/2020		1	29,600	0.78	\$0.22	29,600	\$6,512.00
	10530210		Chloramphenicol Sodium Succinate Inj.,1g	Business Pacific - Pharmacy	170372	03/30/2020		1	14	0.78	\$0.22	14	\$3.08
	10530210		Chloramphenicol Sodium Succinate Inj.,1g	Business Pacific - Pharmacy	170372	03/30/2020		1	20,000	0.78	\$0.22	20,000	\$4,400.00
	10530210		Chloramphenicol Sodium Succinate Inj.,1g	Business Pacific - Pharmacy	171223	12/30/2020		1	6,900	0.78	\$0.22	6,900	\$1,518.00
	10530210		Chloramphenicol Sodium Succinate Inj.,1g	Business Pacific - Pharmacy	20CG08	04/30/2023		1	10,000	3.00	\$0.86	10,000	\$8,600.00
	10530210		Chloramphenicol Sodium Succinate Inj.,1g	Business Pacific - Pharmacy	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: [REDACTED]														
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)	Geographic region covered by the recipient
2021-01-01		Opening Balance			141010	10/30/2017		100	-50	8	\$2.18	-5000	\$109.08	
2021-03-01		Closing balance			141010	10/30/2017		100	50	7.65	\$2.18	5000	\$109.08	
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)	Geographic region covered by the recipient
2021-01-01		Opening Balance						100	-50	0	\$0.00	-5000	\$0.00	
2021-03-01		Closing balance						100	50	0.00	\$0.00	5000	\$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)	Geographic region covered by the recipient
2021-01-01		Opening Balance				7D02006	03/30/2019	1	-1	2	\$0.69	-1	\$0.69	
2021-03-01		Closing balance				7D02006	03/30/2019	1	1	2.43	\$0.69	1	\$0.69	0
Benzyl Penicillin, Inj., 1 million IU, 600mg (10530130)														

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