Mabo Mbebeta – Computer Scientist

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Summary

Entry level Data Analyst with 7 years' experience within the pharmaceutical industry at various levels.

- Strong data collection skills, data cleaning and prepping using R, Python and Excel.
- Strong understanding in pharmaceutical commodity management.
- Endurance to working long hours, often standing up.
- Ability to prioritize and handle multiple tasks and heavy workloads.
- Skilled in planning, organizing and management of resources.
- Exceptional communication skills, with experience in leading small teams and building confidence and engagement.
- Able to work well on own initiative, as well as working successfully as part of a team.
- Focused on continuous development, both professionally and personally.
- Experienced in data visualization using PowerBi, Tableau, Google Sheets and ggplot2
- Looking for a new role that can offer a challenging and exciting environment.

Experience

Data Capturer

Right to Care – USAID – Action HIV project   8th Aug 2022 – 30th Sep 2022

- Responsible for the development of data collection schedule/itineraries.
- Responsible for capturing all relevant patient data relating to TB/HIV services from paper files onto the electronic/paper patient register/database daily, including data relating to audits, current visits as well as data relating to past visits (historical data).
- Compile statistics relating to daily work performance ('data entry stats'), to enable line manager to manage the employee's work performance.
- Manage the correction of errors and double-checking of queried data on the relevant electronic/paper patient register / database within stipulated periods of identifying and/or receiving queries.
- Ensure that data corrections and/or obtaining of missing data in individual patient files, both electronic and paper files are performed within stipulated time frames.
- Capturing and cleaning data in databases for evaluations done by line managers and produce needed datasets
- Helping Ministry of Health staff in compiling reports.
- Identifying and consolidating duplicate patient files, both electronic and paper files.
- Streamline data collection from supported satellite facilities in the region to support real-time data driven decisions.

- Retrieval of patient files and ensuring the quality of collected data, including data entry and management is of high standard.
- Performing Transfer of data to servers.
- Establish communication channels with research teams about relevant project issues and provide updates.
- Ensuring ethical research procedures are adhered to and complied with.
- Managing interpersonal relationship with facility staff at research sites and ensure minimal disruption to normal health facility activities
- Attending to ad hoc duties as directed by line manager

Research Assistant
JSH USAID Zam-Health Project   15th Jun 2022 – 25th July 2020

- Responsible for the development of data collection schedule/itineraries.
- Allocate team members tasks and responsibilities each data collection day.
- Identify, locate, and select sample members from the population.
- Conduct interviews with respondents and record responses using CAPI tools.
- Collect all consent forms from team members and ensure that they are accounted for.
- Monitor for potential problems and give an account of the effects on data collection.
- Compile a report on completed tasks against targets and daily developments and discuss with the team and research coordinator.
- Ensure that the team submits the data collected before the next day.

Supply Chain Data Analyst
MGIC – ZAMPHIA Project   2nd Jun 2021 – 31st March 2022

- Responsible for coordinating the data collection, cleaning, analysis, and reporting on behalf of the unit.
- Facilitate the implementation of the Logistics Management System (LMS), assist with the development of various data products, and support the execution of the supply chain operations.
- Support supply chain Data Science and Machine Learning products relating to; Information Management, Quality Management, Performance Management, Human Capital Development and Task Management.
- Master data creation, modification and maintenance including but not limited to the update planning parameters in the LMS including data on usages, shelf life, lead-times, re-order quantities, items on order, actual stock figures and inventory targets.
- Responsible for adjusting planned stock receipt dates when the projected closing stock is equal to or less than the minimum stock level and generating expedited stock transfer requests.
- Periodic reporting including but not limited to inbound receipts, stock status, batch and aging analysis, bin location and pallet utilization analysis reports.

- Analyze satellite lab level reports, checking the opening balances, the quantity received in the period and the quantity used in the period.
- Cross check that closing stock for previous web matches the opening balance for a subsequent satellite lab in a new web and escalate discrepancies as required.
- Match consumption (quantity utilized) to participant numbers on a weekly basis and escalate and investigate discrepancies that fall outside the allowed variance threshold.
- Assist with the creation of departmental operational dashboards.

Information Assistant
Ministry of Health – Mwense DHO   1st May 2020 – 30th May 2021

- Collect data on the implementation of malaria end user activities
- Aggregate data for HIA1 and HIA2 for the facility, clean it and analyze it for data review meetings.
- Mobile application development and maintenance for data collection for the Malaria Survey in Mambilima catchment area.
- Apply both supervised and unsupervised learning methods to develop an algorithm that can help which person next can suffer from Malaria. Perform a t test on the data collected to determine if the variables selected influence malaria disease.
- Capture Covid 19 vaccination status in the national database
- Orient facility stuff how to register new clients in the Covid 19 database and append vaccine to their record
- Provide district analysis on the vaccination status based on sex and age groups

Pharmacy Consultant
USAID – Safe Project, Kitwe   2nd Jul 2019 – 31st Mar 2020

- Responsible for all inventory control processes.
- Conducting a physical stock assessment of ART commodities at the facility to ensure that multi-month dispensation is always conducted.
- Communicating with internal stakeholders, such as MCH and laboratory teams, to provide updates on the status of deliveries and to ensure that inventory levels are adequate to meet demand.
- Identifying and implementing process improvements to increase efficiency and reduce costs in the supply chain.
- Analyzing data and creating reports on key performance indicators, such as delivery times, inventory levels, and supply chain costs.
- Assisting with budgeting and forecasting, to ensure that the facility has the resources it needs to operate effectively.
- Prepare reports and presentations on multi-month dispensation progress against target.
- Ensure that the transition to the TLD regimen is fast-tracked for all stable clients.

- Analyze the impart of DSD program by checking against missed appointments and late for pharmacy pickups.
- Monitor the effects on Muti Month Scripting on appointment keeping
- Enroll all eligible clients on IPT.
- Quantify the required TLD and TLE for 6 MMD.
- Offer technical support on eSCMIS and SmartCare usage.
- Monitor adverse reaction and report accordingly. Orient staff on the DSD models available at the facility.
- Monitor adverse drug reactions, medication error, product quality problems and report accordingly
- Supporting the facility in charge as required, including ensuring pharmaceutical standards are maintained.
- Aggregate TLD transition data and Multi Month Dispensation data and develop reports and visualizations monthly.
- Report on the status of the 95/95/95 target in relation to IPT enrollment

Data Entry Clerk

Mwense DHO - RMNCAH&N Project   1st Feb 2019 – 25th Jun 2019

- Supporting the District Health Information officer in ensuring that all reports from health facilities are delivered on time.
- Entering of monthly HIA 1 and HIA 2 reports for facilities in the DHIS2 database.
- Assist the district health information officer develop presentation from the captured data using indicator tracking and searching.
- Verifying the reported data with program officers before entering the database in an advert that an outlier is spotted to ensure that only accurate, correct, and consistent data is entered.
- Help Stage 2 RHC with data analysis and presentations for the monthly data review meetings. Ensure that the data presented is easy to understand by all departments to foster intervention development.
- Collecting, cleaning, and organizing large sets of data from various health sources for provincial meetings.
- Using statistical and analytical methods to identify patterns and trends in data to help environmental specialists streamline community activities.
- Developing and maintaining databases and data systems to ensure the accuracy and integrity of data being shared among various stakeholders in the district.

Pharmacy Technologist

Ministry of Health – Mwense   1st Nov 2015 – 31st Jan 2019

- On-site inspections, audits, and reviews of implementation of result based financing in health facilities on behalf of world bank to ensure partners(MoH) are operating in an ethical and compliant manner, and to identify and address any issues or risks that may arise.

- Monitor the utilization of essential drugs and pharmaceuticals using implementation research to identify gaps and develop interventions.
- Develop data collecting tools for key indicator products
- Conduct dispensing of both essential medicines and antiretroviral drugs to clients and offer medication counseling to clients to ensure correct taking of the medications and prevent adverse reactions.
- Train staff in inventory control systems.
- Dispensing ARV's to clients using eLMIS facility edition and SmartCare to produce accurate data and provide updates on the latest pharmaceutical practices.
- Conduct routine pharmacovigilance activities at the ART clinic by sampling patients initiated on ART drugs with co-infections and monitoring them for adverse reactions.
- Conduct distribution of drugs and medical supplies to health centers in the district, monitor their stock status to prevent overstocks which lead to commodities expiring.
- Do routine physical counts to check stock status and track expiry of commodities and implementing the use of FEFO and FIFO when it comes to storage.
- Conduct performance assessments to ascertain the quality of pharmaceutical services provided in the district.
- Assist in the monitoring of rational use of Antibacterial in the district through the antimicrobial subcommittee at Mwense District Hospital.
- Conduct forecasting and quantification of essential medicines, medical supplies, and antiretroviral drugs for the district.
- Provide technical support and on-site training of staff in the usage of eLMIS facility edition.
- Develop a viral load monitoring application to track the 90/90/90 target in relation to viral suppression.
- Troubleshoot eLMIS facility edition. Provide mentorship in the essential medicine's logistics improvement program.
- Participated as an enumerator in the 2018 demographic health survey
- Perform on job training together with JSI – AIDSfree to facilities with newly deployed eLMIS facility edition.
- Assist in the deployment and networking of facilities with facility edition. Conduct routine monitoring of facilities in the district with eLMIS facility edition on the utilization especially dispensing of ARV drugs to clients using the system.

ART Pharmacy Technologist
Chreso Ministries (ART and VCT Centre)   1st Nov 2013 – 30th Sep 2015

- Ensure that reporting and ordering of antiretroviral drugs are done at appropriate times to establish and operate a self, secure, reliable, and sustainable supply chain management system of antiretroviral medications and other products needed.
- Oversee and track the movement of goods and materials through the organizations supply chain
- Monitor inventory levels, tracking shipments, and ensuring that products are delivered on time and in the correct quantities

- Dispensing drugs and giving pharmacological information to patients about side effects, drug interactions, and drug modifications.
- Perform analysis on stock availability vs projected clients. Conducting dispensations using SmartCare and follow up on late pharmacy pick up to promote adherence to drug treatment.
- Produce regimen data annually using SmartCare to take note of the number of clients on each regimen and submit for quantification of antiretroviral drugs.
- Conduct weekly presentations on stock availability and late for pharmacy pickup.
- Develop drug bulletin for the prescribing unit to know what drugs are available, their expiry and promote prescription creation of available commodities.
- Identifying and addressing any issues that arise in the supply chain, such as delays or disruptions.

Community Pharmacy Technologist
Palse Pharmacy, Chilenje   1st Aug 2013 – 31st Oct 2013

- Sell healthcare products, essential medicines, and other products.
- Responsible for stock monitoring and replenishment.
- Recommend which medications to stock based on market analysis and sales.
- Recommend which pharmaceutical vendors to engage with based on trade name preference by the community.
- Offer recommendations on alternative treatment types.
- Recommend generic cheaper versions to clients based on client needs.
- Provide basic diagnostic tests including Malaria test (RDT) and blood sugar.

Professional Qualifications & Education

Bachelor of Science in Computer Science
University of the People   2018 – 2020

Diploma in Pharmacy Technology
Evelyn Hone College   2010 – 2012

Grade 12 School Certificate
Chizongwe Secondary school   2005 – 2007

Professional Registration

Registered Pharmacy Technologist
Health Professionals Council of Zambia

Registered ICT Professional
Information and Communications Technology Association of Zambia

Certifications

JUNE 2021
Applied Data Science II: Machine Learning & Statistical Analysis (with honors) / World Quant University

MARCH 2021
Applied Data Science I: Scientific Computing & Python (with honors) / World Quant University

MAY 2019
Health Information System / POLHN

JANUARY 2019
Knowledge Management / Global Health Programs

FEBRUARY 2018
Clinical Mentorship / USAID | MCSP

JUNE 2017
Essential Medicines Supply Chain (Zambia EMPLIP Logistics System) / USAID Global Health Supply Chain – Procurement & Supply Management (GHSC - PSM)

DECEMBER 2016
Management in Health / The Open Learning Campus

MARCH 2016
ART Commodity Management / FHI 360 | ZPCT IIB

JUNE 2015
PMTCT/OPTION B+ / Ministry of Health & Chreso Ministries

NOVEMBER 2012
National Anti-Retroviral Logistics System / USAID |DELIVER PROJECT

Projects

NOVEMBER 2022 – JANUARY 2023
Project 1: mLINKME URL Link Shortener
Duration: 2 Months
Technologies Used: Python, Flask, SQLite, Nginx, uWSGI, Active/Maintained

OCTOBER 2021 – JULY 2022
Project 2: Malaria Disease Burden Web Data Collection Tool
Duration: 9 Months

Technologies Used: Java, Springboot, PostgreSQL, JPA2 Hybernate, JWT, Angular
Status: Retired/Archived

FEBRUARY 2021 – JULY 2022
Project 3: Malaria Disease Burden Mobile Data Collection Tool
Duration: 5 Months
Technologies Used: Xamarin.Froms, Firebase Firestore, SQlite, Microcharts
Status: Retired/Archived

OCTOBER 2019 – DECEMBER 2019
Project 4: Mwense District Viralload Results Monitoring System -Web Edition
Duration: 2 Months
Technologies Used: PHP, Laravel Framework, SQlite
Status: Retired/Archived

FEBRUARY 2019 – JUNE 2019
Project 5: Mwense District Viralload Results Monitoring System
Duration: 4 Months
Technologies Used: Java, JavaFX, MySQL
Status: Retried/Archived

OCTOBER 2018 – JANUARY 2019
Project 6: Mwense District Hospital Patient Records System
Duration: 3 Months
Technologies Used: Microsoft Access Database, SQL
Status: Retired/Archived

Activities

- Integrating of information technology (Database Systems) in health care to improve patient care and improve evidence-based interventions.
- Desktop application development using Java and C#.
- Full Stack Web Development (Html, CSS, JavaScript, PHP, Python, React, Vue and C#)
- Cross Platform Application Development with Xamarin Forms (Android, IOS and Windows) & React Native.
- Machine Learning Application using python and R
- Reading, both scientific journals and logistics management newsletters in connection with my program for pleasure, is my passion.
- Follow up on the current medical breakthroughs including the use of nano techs in treating medical conditions and performing surgery in hard-to-reach areas

References

1. Mr. Mackford Chipili
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2. Mr. Malisheni Evans
   Senior Health Information Officer
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3. Mr. Chipampa Chilekwa
   Microbiology Lecture
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