



Monitoring, Evaluation, and Reporting (MER) Guidance (v.2.7): Commodities and Supply Chain

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Video Outline

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Section 1: Overview of the Technical Area and Related Indicators





Overview of Technical Area and Indicators

- The goal of any supply chain is to ensure product availability for clients.
 - Metrics look at quantity dispensed to patients during the reporting period & on-the-shelf availability at the end of the reporting period.
 - These metrics may be used together and ought to be used:
 - In conjunction with TX_CURR, TX_CURR_MMD;
 - To ensure NVP is out of the system, and
 - To determine if stock available at the time of reporting is sufficient for the site/SNU for the coming quarter, considering current consumption.
- Both metrics should be reported by facility-based IPs. However, OUs can work with their IPs to determine which IP is best placed to submit these data, based on known data accuracy, reliability, validity, and integrity.
- The entity which procured the products reported on does not matter. PEPFAR support and reporting to TX_CURR is what determines which sites must report on the SC metrics.



Overview of Technical Area and Indicators

Program Area Group	Indicator	Indicator Description	Reporting Frequency	Reporting Level
Health Systems	SC_ARVDISP	# of adult and pediatric ARV bottles (units) dispensed by ARV drug category at the end of the reporting period	Semi-Annually	Facility
Health Systems	SC_CURR	Current # of ARV drug units (bottles) at the end of the reporting period by ARV drug category	Semi-Annually	Facility, intermediate distribution point, and Central Medical Stores
Treatment	TX_CURR: ARV Dispensing Quantity Disaggregate (MMD calculated metric)	# of adults and children currently receiving antiretroviral therapy (ART), dispensing quantity disaggregate (multi-month dispensing)	Quarterly	Facility





Overview of Technical Area and Indicators

- TX_CURR is disaggregated by ARV quantity dispensed to reflect multi-month dispensing:
 - <3 months (F/M/unknown sex <15, 15+) [Not considered MMD]</p>
 - 3-5 months (F/M/unknown sex <15, 15+)
 - 6 or more months (F/M/unknown sex <15, 15+)
 - The total of TX_CURR MMD calculated metric should be equal to the sum of 3-5 months and 6+ months disaggregates.
 - TX_CURR MMD total = 3-5 months + 6 or more months
- The percent of patients on MMD can be calculated by summing the "3-5 month" disaggregate with the "6 or more months" disaggregates and dividing the sum by TX_CURR.



Supply Chain Indicators

- Relationship between indicators:
- Quantity of stock on the shelf (SC_CURR) can be compared to quantity of ARVs dispensed
 (SC_ARVDISP) to determine if current stocks are sufficient for future demand, considering past
 performance, targets and anticipated future performance.
- Goal is to avoid stockout, overstocks, and (hopefully) rationing.



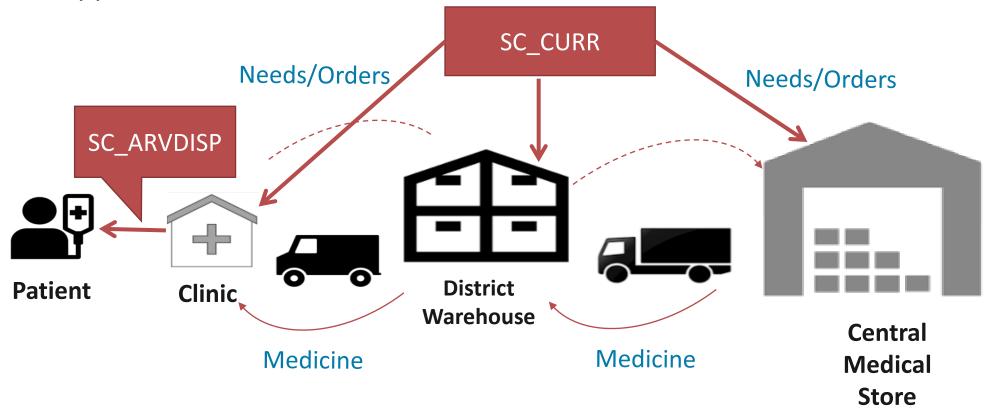






Supply Chain Indicators

Data for these metrics sits in the facility level but flows up in the form of orders and can be used, in conjunction, to determine if supplies are sufficient for reported patients, future needs and patient support validations.

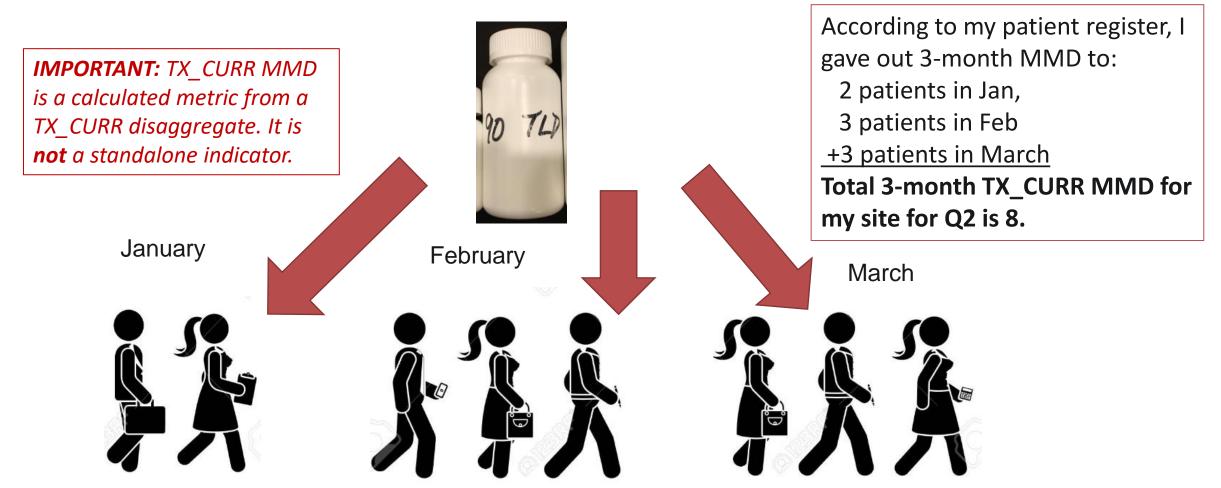






TX_CURR_MMD Calculated Metric

As TX_CURR considers patients as a cohort, so too do TX_CURR MMD disaggregates.







Section 2: Indicator Changes in MER 2.7





Indicator Changes in MER 2.7

There are no changes to these indicators from MER v2.6.1 to v2.7.

Section 3: Review of numerator, denominator, and disaggregates





SC_ARVDISP

Indicator Definition: The number of adult and pediatric ARV bottles (units) dispensed by ARV drug category at the end of the reporting period.

Numerator:

Number of ARV bottles (units) dispensed within the reporting period by ARV drug category

Denominator:

N/A

Required Disaggregations:

- TLD 30-count bottles
- TLD 90-count bottles
- TLD 180-count bottles
- TLE/400 30-count bottles
- TLE/400 90-count bottles
- TLE 600/TEE bottles
- Global Health Security and Diplomacy
 U.S. DEPARTMENT of STATE

 Global Health Security PEPFAR
 20 YEARS OF IMPACT

- LPV/r 40/10 (pediatric) bottles
- LPV/r 100/25 bottles
- DTG-10 90-count bottles
- NVP (adult) bottles
- NVP (pediatric), (not including NVP 10) bottles
- Other (adult) bottles
- Other (pediatric) bottles

SC_CURR

Indicator Definition: The current number of bottles of ARV on-the-shelf at the end of the reporting period by ARV drug category.

Numerator: The number of bottles of ARVs on-the-shelf at the end of the reporting period by

ARV drug category

Denominator:

N/A

Required Disaggregations:

- TLD 30-count bottles
- TLD 90-count bottles
- TLD 180-count bottles
- TLE/400 30-count bottles
- TLE/400 90-count bottles
- TLE 600/TEE bottles
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- Other (adult) bottles
- Other (pediatric) bottles

TX_CURR Calculated Metric: TX_CURR MMD

Disaggregate Definition: The number of patients who are participating in MMD

Disaggregate Numerator:

The number of bottles of ARVs on-the-shelf at the end of the reporting period by ARV drug category

Disaggregate

N/A

Denominator:

TX_CURR MMD Metric Calculation from TX_CURR: ARV Dispensing Quantity Disaggregate:

TX CURR MMD is a calculated metric of TX CURR that is calculated by summing the following TX_CURR - ARV Dispensing Quantity disaggregations:

- 3-5 months of ARVs dispensed to patient by: <15 F/M, 15+ F/M, Unknown Age F/M
- 6 or more months of ARVs dispensed to patient by: <15 F/M, 15+ F/M, Unknown Age F/M
- NOTE: <3 months is not considered MMD, but is included to ensure that those who are <u>not</u> on MMD are still reported.





Definitions of Disaggregates

- SC_CURR and SC_ARVDISP have the same disaggregates.
- All units reported for each disaggregate should be counted in bottles.
- For the purposes of data analysis, all ARV bottles listed in the disaggregations, other than TLD 90, TLD 180, and TLE400 90, are one month of treatment.
 - $_{\odot}~$ TLD 90 and TLE400 90 are three months of treatment.
 - TLD 180 is six months of treatment.



Definitions of "Other" Category

Products included in the "Other" category consist of, first, commodities not listed in the product-specific disaggregates and, second, those which are used for **second- and third-line treatment only**. These are expected to be a much smaller proportion of the total than Dolutegravir-based regimens.

Indicative products belonging in the "Other (adult)" and "Other (pediatric)" lists are below but are not exhaustive.

Non-Exhaustive List of "Other" Products

Other (Adult) Bottles	Other (Pediatric) Bottles	
 Atazanavir/Ritonavir 300/100 Lopinavir/Ritonavir 200/50 mg 	 Darunavir 75 mg Raltegravir 100 mg (Granules for suspension) 	





How to Collect: SC_ARVDISP

- **Data Sources**: Facility dispensing registers, reported at the facility level, based on data available to the facility-based implementing partner, Warehouse Management Information Systems (WMIS), and could include: host government-supported Logistics Management Information System (LMIS). Please ensure the data source used is complete, consistent, reliable, and of high quality.
- Calculation Method: Sum of bottles dispensed during the reporting period.
- Key considerations for reporting:
 - If data on ARV dispensation are not available, 'issues data' may be used for reporting.
 - 'Issues data' is defined as bottles of ARVs provided to facilities from a distribution center. If 'issues data' are used for reporting, include the following in the narrative section:
 - 1. An explanation for doing so
 - 2. What steps will be taken to provide ARV dispensation data in the future

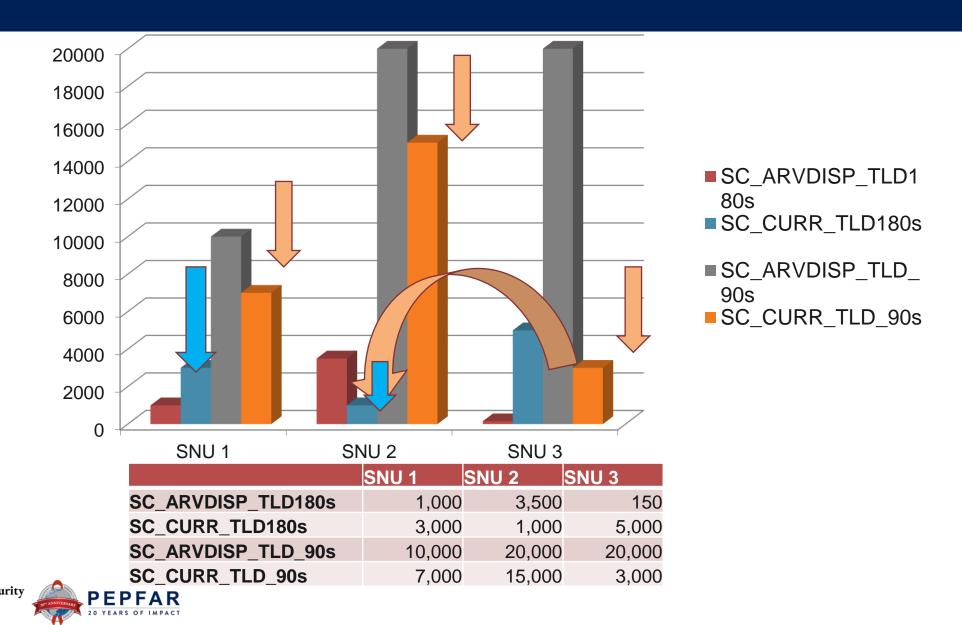


How to Collect: SC_CURR

- Data Sources: Facility dispensing registers related stock cards, reported at the facility level, based on data available to the facility-based implementing partner, Warehouse Management Information Systems (WMIS), and could include: host government-supported Logistics Management Information System (LMIS). Please ensure the data source used is complete, consistent, reliable, and of high quality.
- Calculation Method: Count of bottles on-the-shelf at the end of the reporting period.



Bringing it all Together Visually



Bringing it all Together Visually

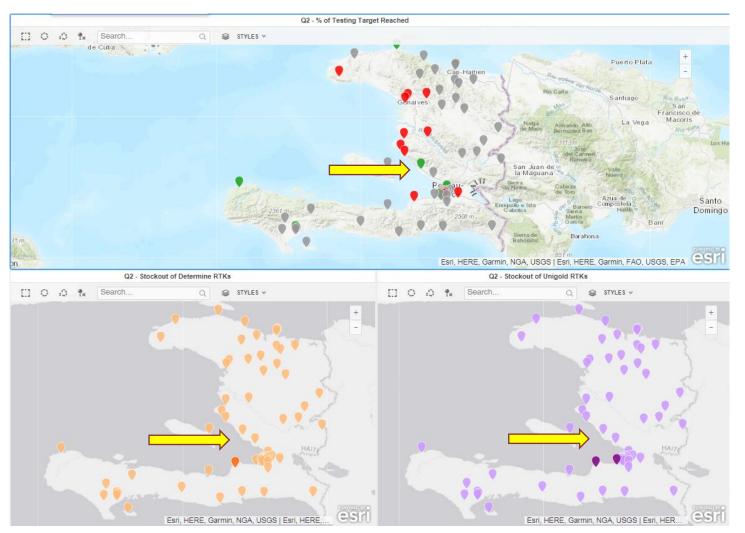


- SC_ARVDISP for FY20 Q4, looking towards ARV Optimization to determine which countries need assistance to adopt TLD.
 - This can be done by or within an SNU to identify SNUs/sites having difficulty optimizing and would benefit from assistance
- Future applications –Pediatric ARV Optimization





Bringing it all Together Visually



- SC_CURR can be used to show stock availability.
 - Shown above is the RTK
 availability in Haiti, showing
 that one site during the
 period in question had
 stocked out of all RTKs.





Section 4: Overview of Guiding Narrative Questions





Guiding Narrative Questions: SC_ARVDISP

- 1. What data source(s) are used for this indicator? Specify whether the quantities reported are those which are dispensed to the patients (preferred) or issued to the facilities from a distribution center.
- 2. Describe data on ARV dispensation data are reported through the system and how orders are calculated?
 - a. Is the system managed through an 'informed push'? Is it a pull system? Is ARV dispensation data reported actual or is it an average/calculated/estimated?
 - b. If an LMIS is available, how often do facilities report into the LMIS (e.g., monthly, quarterly)?
- 3. How does SC_ARVDISP compare to TX_CURR? What is the ratio between the two?
- 4. How do the quantities associated with 90 and 180 count bottles align with multi-month dispensation data?
- 5. If more frequent dispensation data are available (monthly or quarterly LMIS data, for example), especially data from the SC-FACT reporting system (as was recommended in the COP guidance), utilize that to further explain the data reported.





Guiding Narrative Questions: SC_CURR

- 1. What data source(s) are used to report on this indicator? Specify whether the data source is: the LMIS, Forecasting software or database, the central medical stores warehouse information system, the PPMR-HIV (Procurement Planning and Monitoring Report for HIV), and/or another source.
- 2. Report when the quantification was done and if the forecast or supply plan have been updated recently, if so, provide a date and whether or not the data from SC_CURR informed that action.
- 3. Describe the drug distribution period (e.g., monthly, bi-monthly, etc.)?
- 4. If the SC_CURR data plus an outside forecast or quantification demonstrates that a stock out will occur for any medication at the central or intermediate levels, please describe why and what is being done to mitigate that stock out or if it was planned, i.e., a product no longer recommended in the standard treatment guidelines.



Guiding Narrative Questions: SC_CURR

- 5. If the data shows waste, please describe why and what is being done to mitigate this event as well as any plans for environmentally safe destruction. Likewise, if funding is unavailable for destruction, please describe that.
- 6. Are stock-outs a problem at the time of report? Use the data to determine why the stock-out occurred. If data outside SC_CURR and SC_ARVDISP are used to determine why the stock-out occurred, please describe that analysis and actions taken to mitigate.
- 7. During the reporting period, have stock-outs been a problem?
- 8. Use the data to show any anticipated gaps, needed shipments, under- or overstocks, or stock appropriate situations based on current and expected consumption/dispensed to patients.



Section 5: Data Quality Considerations for Reporting and Analysis





Data Quality Considerations for Reporting and Analysis: SC_ARVDISP & SC_CURR

- Check to ensure that the quantity dispensed and quantity on hand do not differ by a sizeable factor (if one is 10X greater than the other, that should be investigated.)
- As the metrics are utilized it is expected that some partners will need additional guidance to report on both to ensure uniformity of definitions and data sources.
- Data should come from facility partners when possible and if complete.
- If some required PEPFAR sites are missing it would be wise to determine why and facilitate data submission.



Data Quality Considerations for Reporting and Analysis: TX_CURR MMD Calculated Metric

- Please ensure that TX_CURR is greater than or equal to the TX_CURR disaggregates for ARV Dispensing Quantity.
- Please ensure that the sum of patients reported into the TX_CURR MMD calculation does not exceed TX_CURR.
- Please ensure that any IP reporting TX_CURR is also reporting on TX_CURR MMD as a calculated sum of the 3-5 months and 6+ months counts of the ARV Dispensing Quantity TX_CURR disaggregate.

Reminder: TX_CURR MMD is a calculated metric from a TX_CURR disaggregate. It is **not** a standalone indicator.



Section 6: Additional Resources and Acknowledgments





Additional Resources and Acknowledgements

• Thank you to the Supply Chain subject matter experts for their input and recording.

Thank you!



