Sample Analytic Questions for MSD

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# Summary

This document provides a set of sample analytic questions to help you become familiar with the PEPFAR MER Structured Dataset (MSD) data structure and querying it using R. The questions are designed to be challenging but accessible, and they provide a good starting point for exploring the MSD dataset and developing your own analytic projects.

# Material

* [Dummy dataset (via themask)](https://github.com/USAID-OHA-SI/themask/releases/tag/latest)
* [Latest MER Guidance](https://help.datim.org/hc/en-us/articles/360000084446-MER-Indicator-Reference-Guides)

# Questions

1. Which partner should we focus on with lower target achievement in test positivity for the year?
2. What share of total and positive tests are from index testing in the latest quarter?
3. Which sub-national units (SNUs) have seen a decline in testing over the last few quarters but an increase in positivity?
4. What share of newly initiated patients onto treatment have a CD4 count of less than 200?
5. Which age bands have had two or more quarters with declining net new on treatment?
6. Which sub-national units (SNUs) had net new on treatment volumes below those newly on treatment for the year?
7. Are any sub-national units (SNUs) lagging behind with getting a majority of patients onto 6 months or more of multi-month dispensing ( MMD) of treatment?
8. Do we see any differences in viral load coverage (VLC) by age and sex for the current year?