Background
Organized and effective management of clinical trial materials is essential for collecting required pharmacokinetic samples within the scope of a clinical trial protocol. At the University of Arizona Cancer Center Clinical Trials Office (CTO), a Slope inventory management system was implemented in 2022 to improve the tracking of clinical trial kit inventory. Prior to implementation, pen and paper was used to track and reorder supplies. This method was ineffective due to the inability to evaluate a large volume of kits, place orders and centralize inventory tracking.

Goals
- Our primary goal was to decrease missed patient assessments and associated deviations due to insufficient inventory or expired kits.
- Our secondary goal was to improve clinical trial data for safety and efficacy by collecting all assessments required in the protocol.

Outcomes
Data on scheduled test related deviations reported during the year prior to implementation of Slope were compared to those during the year of implementation and the year following implementation. This showed a 44% reduction in scheduled test deviations from year 2021 to year 2023. Although we cannot quantify all scheduled test deviation reductions being associated with kit availability, the trend is favorable as other interventions were not implemented.

Lessons Learned and Future Directions
We learned our clinical trial materials increase in volume and complexity every year. Closely tracking their availability decreases our missed test deviations and contributes valuable data to the clinical trial. Monthly reports generated from Slope allow us to replenish our supply and project supply demand and storage needs. Slope has introduced a sample management system that we will be evaluating and beta testing at our site.