

Dried Blood Spot (DBS) Preparation from Venipuncture Collected Blood

For Drug Resistance Testing in PrEP Seroconverters

PREPARE DBS MATERIALS

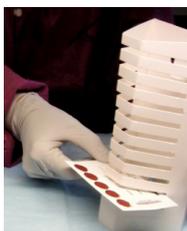
- 1 Review Procedures**
 Upon confirmation of HIV infection with PrEP client, review procedures for DBS collection. If client agrees, continue.
 
- 2 Complete Data Collection Form**
 Complete the data or lab requisition form to collect client demographic and adherence data.
 
- 3 Attach barcodes**
 Affix one barcode labeled sticker to each of the two DBS cards, data collection form, blood tube, and client's medical file.
 

Collect at least 1 mL venous blood in an EDTA tube as per standard operating procedures and universal blood collection precautions and then, proceed to steps below.

DBS PROCEDURES

- 4 Invert Blood**
 Gently invert the blood collection tube 2 to 4 times and then open the stopper carefully.
 
- 5 Aspirate with Pipette**
 Draw whole venous blood to the line closest to the bulb on a transfer pipette, avoiding air bubbles (approximately 50 µl).
 
- 6 Transfer to DBS Cards**
 Transfer 1-2 drops of blood to the center of each of the 5 circles (on both cards) without touching the filter paper directly. Fully saturate the circles.
 

DBS STORAGE AND SHIPMENT

- 7 Store on Drying Rack**
 Store DBS card in an individual slot on the drying rack with blood spots facing up and dry the DBS card at room temperature overnight, or for a minimum of 3 hours.
 
- 8 Protect Samples**
 Insert the dried card into the sealable plastic bag with the desiccant and humidity indicator.
 
- 9 Ship to Laboratory**
 Insert the sealed plastic DBS bag and the data collection form in the envelope provided and mail the envelope immediately, or within 3 days.
 

Visit the GEMS Website for more information about PrEP and Drug Resistance: <http://gems.pitt.edu>