



ARISE

African Research And Innovative
Initiative For Sickle Cell Education

Train-the-Trainer Workshop

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Collection and transportation of Dry Blood Spot cards

- To describe the end to end process of collection, transportation and storage of blood samples on DBS cards



Points to note

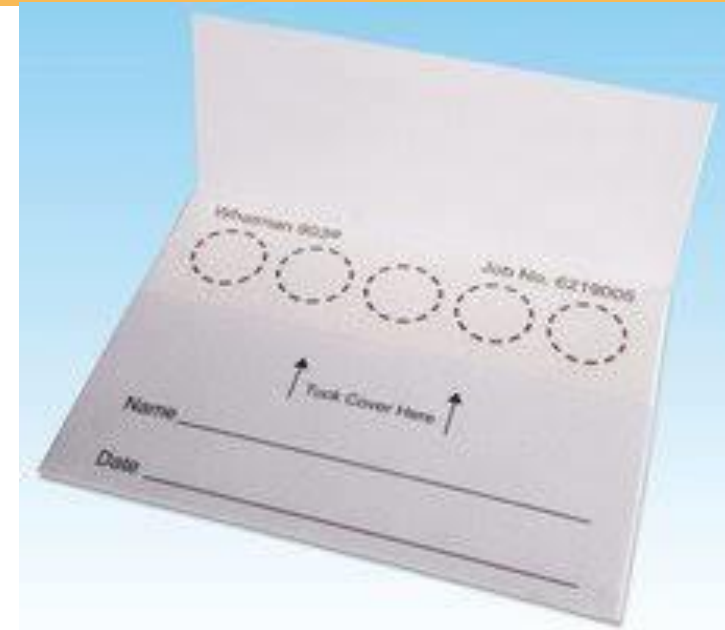
Each sample should be handled with necessary safety precautions

Each sample should be treated with care and attention to avoid errors or loss of samples.



Pre-collection Process

- Ensure card is available and in good order
- Ensure other materials are available: Alcohol wipes, lancets, gloves, drying rack, low gas permeable ziplock bags, dessicant, humidity indicator card, data forms, transmittal forms, e.t.c
- Obtain patient consent and details
- Label card with patient unique bar code and date



Collection process

- Swab the patient heel with alcohol wipes
- Gently make a prick
- Drop blood into the encircled sections of the DBS card (3 to 5 spots)
- Leave for few minutes to air dry
- Insert into small ziplock bag
- Fill transmittal form



DBS card
in small
ziplock
bag



Temporary Storage

- Package all cards collected for the day into a large Ziplock bag
- Deliver to designated storage facility
- Receiver to confirm details in transmittal form
- Store at 4 °C pending shipment to the laboratory for analysis



Transportation and storage

- Within a week or more, samples can be shipped to lab for analysis
- Shipment should be cold chain
- Samples should be received at the laboratory
- Laboratory personnel confirms details and signs transmittal form
- Discrepant cases are rejected until issues are resolved (Samples without forms, forms without samples, samples without adequate spot)



DBS in
cold
shipment
bags




Transmittal forms

IFAIN DRIED BLOOD SPOT (DBS) FORM

Field Worker Number		CLUSTER NUMBER				
<input type="text"/>		<input type="text"/>				
PERSON SPENDING/RECEIVING SAMPLE	TIME TO FILL IN FORM	TOTAL COUNT OF DBS SAMPLES	SIGNATURE CONFIRMING THAT EACH DBS SAMPLE IS PRESENT - SEE BACK OF FORM	SIGNATURE CONFIRMATION THAT THE NUMBER OF DBS SAMPLES MATCHES COL 3	DATE	NOTE (NOTE ANY DISCREPANCY IN NUMBER OF SAMPLES)
1)	2)	3)	4)	5)	6)	7)
FIELD WORKER	WHEN CLUSTER IS COMPLETED	<input type="text"/>				
FIELD TEAM SUPERVISOR	AFTER INTERVIEWER HAS DONE HIS/HER COUNT	<input type="text"/>				
RECEIVER AT STAINING LABORATORY	UPON ARRIVAL AT THE PROJECT OFFICE	<input type="text"/>				
RECEIVER AT ABUJA LABORATORY	UPON ARRIVAL AT ABUJA	<input type="text"/>				

DBS transmittal form (front page)

IFAIN DRIED BLOOD SPOT (DBS) TRANSMITTAL FORM (BACK)

NO	SAMPLE BARCODE	FIELD WORKER	LAB	NO	SAMPLE BARCODE	FIELD WORKER	LAB
1				16			
2				17			
3				18			
4				19			
5				20			
6				21			

DBS transmittal form (back page)





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