



POCT Link Trainer Guide – HIV test training

This document summarises the key points which should be covered by link trainers during training of **HIV testing** using the **Abbott Determine HIV Early Detect POCT test**.

<p><u>Purpose</u></p> 	<ul style="list-style-type: none"> • The Abbott Determine HIV Early Detect test designed to detect the presence of Antibodies (Ab) to HIV-1 or HIV-2, as well as non-immunocomplexed (free) HIV-1 p24 Antigen (Ag). • A reactive result on either the antibody or antigen component, or on both simultaneously, indicates a suggestive indication of HIV infection.
<p><u>Sample requirements</u></p>	<ul style="list-style-type: none"> • 50ul is required to fill the test strip. • Finger prick whole blood capillary samples should be analysed immediately. • Venous/capillary whole blood taken into EDTA labelled with patient details can be stored at 2-8°C for 7 days before use. • Serum/plasma labelled with patient details can be stored at 2-8°C for 7 days or at -20°C or below after 7 days but AVOID freeze/thaw cycles. • Samples must be at room temperature before use.
<p><u>EQA</u></p>	<ul style="list-style-type: none"> • EQA samples should be tested on receipt, and the results returned to POCT on the form provided ASAP.
<p><u>Patient / sample preparation</u></p> 	<ul style="list-style-type: none"> • Gain positive patient identification and (when possible) consent. • Wear the appropriate PPE. • Clean patients' hand/finger with alcohol and allow to dry.
<p><u>Analysis</u></p>	<ul style="list-style-type: none"> • Ensure samples have come to room temperature prior to analysis and are thoroughly mixed.

- Remove the protective foil seal from the strip (strip must be used within 30 minutes of removal).
- Use a single use lancet to puncture the finger. **Wipe away the first drop of blood** with sterile gauze and massage the finger to obtain a second drop of blood.

For whole blood capillary using EDTA capillaries:

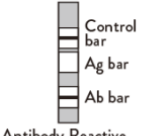
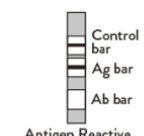
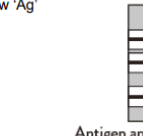
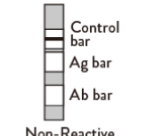
- 1) Touch the tip of the EDTA capillary tube to the drop of blood – avoiding air bubbles.
- 2) Fill the tube with blood between the 2 marked lines.
- 3) Place the capillary tube containing the blood sample into the HIV strip sample pad, allowing all blood to transfer before lifting the capillary away to prevent bubble formation.
- 4) Immediately apply 1 drop of Chase Buffer to the sample pad then wait a minimum of 20 minutes from addition of sample (up to 40 minutes) and read the result.

For serum/plasma samples:


- 1) Apply 50uL of sample to the sample pad marked by the arrow.
- 2) Wait a minimum of 20 minutes from addition of sample (up to 40 minutes) and read the result.

Results

- To interpret the results please ensure that you are in good light.
- There **MUST** be a control line visible, or the results are invalid and cannot be reported.

<p>1) ANTIBODY REACTIVE – red line in control window 'C' and in antibody window 'Ab'</p>  <p>Antibody Reactive</p>	<p>2) ANTIGEN (p24) REACTIVE – red line in control window 'C' and in antigen window 'Ag'</p>  <p>Antigen Reactive</p> <p>The presence of only an antigen response suggests that the infection is at an early stage.</p>
<p>3) ANTIBODY AND ANTIGEN (p24) REACTIVE – red line in control window 'C', in antibody window 'Ab' and in antigen window 'Ag'</p>  <p>Antigen and Antibody Reactive</p>	<p>NON-REACTIVE – red line in control window 'C' ONLY. If no red lines appear, the test is invalid.</p>  <p>Non-Reactive</p>

- Record result in the patients' sexual health hospital notes, signed by both members of staff who read the

	<p>test. All reactive results must be relayed to a member of the HIV team.</p> <ul style="list-style-type: none"> Confirmatory tests should be sent to the microbiology laboratory with a request form with: <ol style="list-style-type: none"> Result, kit lot number and expiry of POC HIV test written on the form. Mark samples as urgent if POC HIV = reactive, mark samples as routine if POC HIV = non-reactive. Needle phobic patients may deny laboratory confirmation if POC HIV results were non-reactive, but all reactive results MUST be confirmed with the microbiology lab.
<p><u>After testing</u></p>	<ul style="list-style-type: none"> Inform patient of the POC HIV test result and that confirmation a venous sample has been sent to the lab which can take 7-10 days, if the result was reactive inform patient that there is rate of approximately 1% of false reactive results on a POC HIV test. Dispose of the sample, capillary and test strips following waste management guidance.
<p><u>Stock</u></p>	<ul style="list-style-type: none"> Tests and chase buffer are provided by the POCT team.
<p><u>Analyser issues</u></p> 	<ul style="list-style-type: none"> Contact POCT: <ul style="list-style-type: none"> York (772)5890 Scarborough (771)2659 Bridlington (771) 3321

*** DO NOT SHARE YOUR OPERATOR ID WITH ANYONE ***

*** IT IS A DISCIPLINARY OFFENCE ***