

Clinical Laboratory Education Brief – Aerobic, Anaerobic, and Pediatric (Aerobic) Blood Culture Bottle Conversion

September 2024

<p>WHEN:</p>	<p>9/23/2024 @ 10:00am</p>
<p>WHERE:</p>	<p>Orlando Health's (OH) Cancer Center Institute (OHCI), Jewitt Orthopedic Institute (OHJOI), Orlando Regional Medical Center (OHORMC), South Seminole Hospital (OHSSH), Winnie Palmer Hospital (OHWPH), and LabWorks (OHLW).</p> <p>COMMENTS:</p> <ul style="list-style-type: none"> • Arnold Palmer Hospital (OHAPH) will go-live Tuesday, 10/1/2024. • Dr. P. Phillips Hospital (OHDPH) went live in August 2024.
<p>BACKGROUND:</p>	<p>There was a national backorder of BD blood culture bottles. Some OH sites had to make an immediate switch (OHDPH) to bioMerieux. Some sites were already live (OHHCH, OHS LH) with bioMerieux. Some sites remained with the same vendor they have been using (OHSCH, OHBH). Other sites had to switch to bioMerieux with a go live of 9/23/24 (OHAPH, OHCI, OHJOI, OHORMC, OHSSH, OHWPH, OHLW, Outreach). Orlando Health (OH) currently has three different blood culture testing systems in use.</p>
<p>WHAT YOU NEED TO KNOW:</p>	<p>Converting to bioMerieux aerobic, anaerobic, and pediatric (aerobic) blood culture bottles, adapters, and test system.</p> <ol style="list-style-type: none"> 1. Current BD brand (aerobic, anaerobic, pediatric aerobic) blood culture bottles will be replaced with the bioMérieux brand blood culture bottles. 2. Two new adapters for bottle inoculation must be used with the new bioMérieux blood culture bottles. 3. The new adaptors can also be used with BD brand Mycolytic blood culture bottles.

LABORATORY GUIDANCE:

1. BLOOD CULTURE BOTTLE CONVERSION

- **Aerobic, Anaerobic, and Pediatric (aerobic)** Blood Culture bottles will **change** to the bioMérieux brand.
- **BD Mycolytic** (AFB, Fungus) blood culture bottle will remain the same.

Optimal Blood Volume to Collect:

- Aerobic and Anaerobic **8-10mL**
- Pediatric (aerobic) **1-4mL**
- Mycolytic bottle **1-5mL**



2. NEW ADAPTERS

- Two new adapters (male/female) are used with either the **IV catheter, butterfly, or syringe**.
- Look at the end of the adapter connection to know the difference between the female and male types.

<p>Saf-T Holder® Blood Culture Device with Male Luer Adapter*</p>	<p>Male</p>	<ul style="list-style-type: none"> • Male threaded luer adapter • Adapter is compatible with female threaded luers • Back-end needle and luer are permanently attached to the adapter • Comes with an insert (shown) for use with evacuated blood collection tubes • Adapter & insert come in sterile, individual packaging 	
<p>Saf-T Holder® Blood Culture Device with Female Luer Adapter†</p>	<p>Female</p>	<ul style="list-style-type: none"> • Female slip luer adapter • Adapter is compatible with male slip tip or threaded luers • Back-end needle and luer are permanently attached to the adapter • Comes with an insert (shown) for use with evacuated blood collection tubes • Adapter & insert come in sterile, individual packaging 	

1. New blood culture adapter(s).



2. Remove the adapter that comes in the butterfly kit and attach the new adapter to the butterfly needle (as pictured below) when inoculating the new bioMérieux and BD Mycolytic blood culture bottles.

Current butterfly kit with adapter



New adapter + former adapter with butterfly



3. Collect specimens per Orlando Health policy and procedure, and using the new blood culture bottles and proper adapter.

The **insert** within the new adapters are for blood tube collections, which ensures a tight fit for the tubes during blood collection.



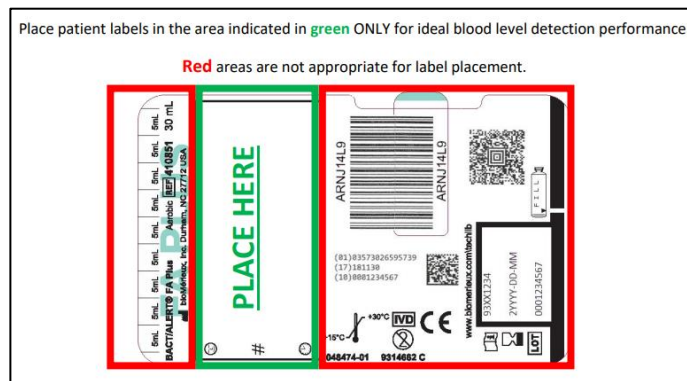
3. ALCOHOL PAD UPDATE

- Scrub the top septum of each blood culture bottle using one **separate (new) alcohol pad** for each bottle. Allow to air dry.

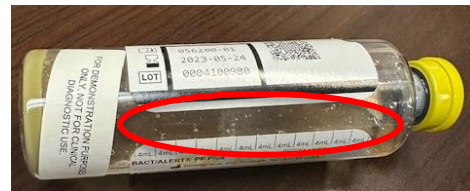


4. PATIENT LABEL

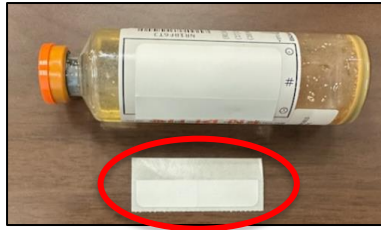
1. Place and align patient label in the designated label area as indicated on the bottle (**green** area in label below). If not placed properly, laboratory instruments cannot scan and read the barcode, causing a delay in patient testing and test result turn-around-time.



2. Do not cover the **barcode** on the blood culture bottle.
3. Do not cover the **area where the fill volume is visible and marked**.



4. Remove the small "tag" labels at the bottom of the patient label and discard appropriately. Bottles cannot be tested with extra and loose labels.



QUESTIONS?

For additional questions, please contact your local Orlando Health Laboratory:

- Orlando Health Cancer Institute (OHCI) Laboratory – 321-841-1863
- Orlando Regional Medical Center (OHORMC) Laboratory - 321-841-5214
- South Seminole Hospital (OHSSH) Laboratory – 407-767-5803
- Winnie Palmer Hospital (OHWPH) – Contact OHORMC Laboratory @ 321-841-5214
- LabWorks (OHLW) – Contact OHORMC Laboratory @ 321-841-5214

ADDITIONAL INFORMATION:

Lawson Order Information for bioMerieux Blood Culture Bottles and Adapters:

1. FA Plus Aerobic - 81631
 2. FN Plus Anerobic - 81632
 3. PF Plus Pediatric – 81633
 4. Male Adapter – 82126
 5. Female Adapter – 82127
- Product will be available in Central Supply and stocked in par carts.
 - Please visit Talent Connection for additional resources on these products. Team members can self-assign education by searching "Biomerieux" in TC.

