

 <p>Dayton Children's Hospital One Children's Plaza Dayton, Ohio 45404</p>	Department	Laboratory
	Section	Microbiology
	Section Owner (Responsible Supervisor)	Mike Brandon
	Formulated Date	3/96
	Approved By	Dr. Mirkin
	Past Review Date(s)	5/7/12,4/5/13,5/2/14,11/15,2/9/17
	Revision Date(s)	3/00,6/01,8/06,5/07,7/10,4/11,10/11,12/11,1/12
Policy: Blood Culture Collection		

I. PURPOSE:

The inoculation of blood for blood cultures in to the appropriate media for the microorganism(s) suspected.

II. MATERIALS NEEDED:

- Chloraprep® one-step 1.5 ml Frepp® Applicator
- Alcohol Prep containing 70% Isopropyl Alcohol equivalent. Available from Central Distribution.
- Iodine Tincture, 2% USP in 47% alcohol. Available as Antiseptic Applicators. Obtain from the Clinical Laboratory.
- Angel Wing transfer device
- Blood Media/Tube for the type of microorganism suspected. See III below. Obtain from the Clinical Laboratory.

III. TYPES OF BLOOD CULTURES MEDIA/TUBES AND AMOUNT OF SPECIMEN

Guidelines for amounts of blood to be inoculated into each bottle:

Age	Volume of blood
0-1 month	0.5-1 mL
2months -3 years	1-4 mL
4 years-adult	2mL-8 mL

TYPE	BOTTLE	AMOUNT OF SPECIMEN
Aerobic (Routine)	GREEN	1-8 mL
Anaerobic	ORANGE	1-8 mL
Fungal	Isolator	1-1.5 mL
Mycobacteria tuberculosis (TB, MIA)	Isolator	1-1.5 mL
Viral (Includes CMV)	Green top (Heparin)	1-4 mL

PROCEDURE FOR SKIN PREPARATION AND BOTTLE DIAGRAM DECONTAMINATION

Patients more than 2 weeks old and larger than 1000 grams

Cleanse skin with ChloroPrep® one-step 1.5 ml Frepp®Applicator: (see below if patient is allergic to chlorhexidine)

1. Hold the applicator sponge downward, pinch the applicator to break ampule and release the antiseptic.
2. Use a side-to side motion to scrub the site with friction pad for a full 30 seconds; allow site to dry completely (at least 30 sec.) before venipuncture. (DO NOT TOUCH SITE AFTER PREP)
3. Cleanse each septum of bottle of tube with a separate 70% alcohol pad or ChloroPrep®. Allow to dry.
4. Draw blood and inoculate each bottle using angel wing transfer device.
5. Label with at least two patient identifiers.

NOTE: Do not vent or overfill (more than 8 mL) in blood culture bottles

If patient is less than 1000 grams OR less than 2 weeks gestation (or has a sensitivity to alcohol or chlorhexidine), use povidone-iodine pads, let dry for two minutes. Wipe with Sali-Wipes when procedure is completed (for patient less than 1000 gram or less than 2 weeks of age).Scrub top of blood culture bottle with chlorhexidine pad for 30 seconds

If patient is allergic to chlorhexidine or if ChloroPrep® cannot be used, prep site with 70% alcohol followed by iodine tincture applied in concentric circles

(starting in the center). Allow to dry at least 1-2 minutes before venipuncture. Cleanse site after venipuncture with 70% alcohol to remove any iodine.

Note: Once disinfected, the venipuncture's site should not be palpated with a finger unless it has been similarly decontaminated. Always inoculate blood cultures first before filling other tubes