

PMGH BACTEC blood culture collection procedure





Key messages: Safety Asepsis (reduce contam'n) Sensitivity (correct volume)

| | Procedure | Rationale |
|-------------------------------|--|--|
| Beforehand | Prepare materials – take them on a clean stainless steel tray with a sharps container. <u>Adults</u> : minimum single BACTEC bottle (aerobic OR anaerobic); second bottle recommended from separate venepuncture. <u>Paediatric</u> : single aerobic bottle. | <i>Don't label the blood culture bottle away from the patient- mislabelling can result.</i> <i>Don't collect from an old IV line!</i> |
| | Perform hand hygiene with alcohol hand rub as you arrive at the patient's bed | <i>Hand hygiene before patient contact!</i> |
| Preparation at bedside | <ul style="list-style-type: none"> i) Identify the patient – “What is your name?” ii) Explain procedure and gain verbal consent from patient iii) Label the bottle (right). Request form ID must match. Request form must include requesting doctor with contact # iv) Steady the culture bottle(s) in a rack or small box; remove the cap and disinfect with alcohol swab; discard. v) Assemble needle & syringe (10mL or 2mL) | <i>Closed or leading questions may lead to patient mis-identification!</i> <i>Document at least 2 patient identifiers (name, MRN, DOB, sex; date and time of collection).</i> <i>Contact # for lab. to call result</i> <i>Caps are not sterile -reduce contamination by disinfection</i> |
| Collection | <ul style="list-style-type: none"> i) Tourniquet on; identify venepuncture site; ii) Repeat hand hygiene and put gloves on iii) Clean skin site with several alcohol swabs until no discoloration seen on swab; then use fresh swab to disinfect– use a circular motion moving outward from site. iv) <i>WAIT 30 seconds!</i> Venepuncture with no-touch technique; release tourniquet once in vein; <u>Adults</u>- 10mLs; <u>Children</u> – 1-10mLs (volume=age in years) SCN 0.5-1mL. v) Withdraw needle; apply cotton wool to site (don't touch needle with c/w); ask patient to apply pressure to c/wool. | <i>Pre-procedure Hand Hygiene!</i> <i>At least 30 seconds required for last alcohol swab to disinfect.</i> <i>Don't re-palpate site– risk of culture contamination.</i> <i>Correct volume maximises detection sensitivity.</i> <i>Contamination may occur if c/w touches the needle!</i> |
| Afterwards | <ul style="list-style-type: none"> i) With the blood culture bottle(s) held in the rack, inoculate with needle and syringe – <i>keep fingers away from cap!</i> ii) Discard needle & syringe into sharps container. iii) Place adhesive tape over the c/wool at puncture site. iv) Remove gloves, discard waste and perform hand hygiene v) Transport bottle(s) and request form to lab. without delay (tie together with glove material). Don't refrigerate. | <i>Use the same needle – changing the needle is a safety risk!</i> <i>Don't overfill–10mL per bottle (vacuum is strong- watch!)</i> <i>Post-procedure hand hygiene</i> <i>Check labelling and request form for accuracy and completeness</i> |

Equipment list

- Stainless tray (clean before use)
- Sharps container (or kidney dish)
- Alcohol hand rub & gloves
- Blood culture bottle(s) (check expiry date) & rack
- Syringes (10mL, 2mL) & needles (21G, 23G)
- Alcohol swabs
- Tourniquet
- Cotton wool & adhesive tape
- Lab request form



THE PORT MORESBY GENERAL HOSPITAL

Better Health

Laboratory Request Form

 Phone 3248286/183

MR# 1234567

Patient full name:

Date of birth / Age: 16/02/75 Place of residence:

Sex: Male Female

Collection Date/Time: 21/8/19 2pm Request date/time (if different).....

Doctor's Name:..... Contact:.....

PNGMB Reg. #:

Practice location: 2A

Private facility PNGMB Reg. #

Hospital Account #

Sample type and test(s) required: (separate form for each pathology section)

Blood culture.

Clinical Notes:

Pneumonia, not on antibiotics.

To be completed by specimen reception:

Date and Time received:

REF 442023

This Product Contains Dry Natural Rubber

8-10 mL (optimal / optimal)

3-10 mL (orange / orange)

gases / gases

IND

8-10 mL

1234567 Name

21/8 2pm