

'HOW TO' GUIDE.....

..... To BLOOD CULTURE SAMPLING

Blood Cultures....

- Determine clinical need for investigation.....
 - Are blood cultures clinically indicated?
 - Will it change treatment?
 - Are you competent to do it?
-

Blood culture practice....

- ❑ **BC SAMPLE MUST BE STERILE** – The need to avoid contamination is PARAMOUNT!
- ❑ Need to have correct sample size
- ❑ Minimum sample = 3 ml per bottle
- ❑ Best 8 – 10 ml per bottle

Choose....

Peripheral blood culture instruction

“Long line” (CVC) blood culture instruction

Wash Hands correctly.....



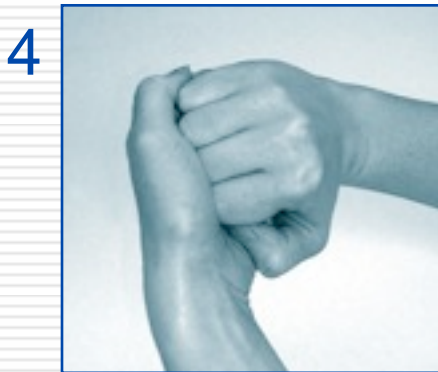
Palm to palm.



Right palm over left dorsum
and left palm over right dorsum.



Palm to palm
fingers interlaced.



Backs of fingers to opposing palms
with fingers interlocked.



Rotational rubbing of right thumb
clasped in left palm and vice versa.



Rotational rubbing, backwards and forwards
with clasped fingers of right hand in left palm
and vice versa.

**7 DON'T FORGET
WRISTS**

You will require the following items for peripheral blood culture...

- Apron
- Gloves
- ?Eye protection
- Trolley/ clean surface
- Cleaned Red ANTT tray
- Chloraprep FREPP (2% chlorhexidine)
- S-Monovette Syringes (1 for each bottle)
- Monovette needles (1 for venepuncture & 1 for each bottle)
- Sanicloth CHG 2%
- Blood culture bottles
- Sharps bin
- Paperwork
- Forms

Equipment needed for peripheral blood culture



- ❑ Gather equipment & take to bedside
- ❑ Use S-Monovette system (for sterile sampling)
- ❑ You must use Chloraprep FREPP (2% Chlorhexidine)

Before you touch the patient....



- ❑ Decontaminate hands **AGAIN**
- ❑ Use alcohol hand rub OR soap & water (7 step technique)
- ❑ Don apron & gloves
- ❑ Risk assess need for eye protection

Select a vein....

- ❑ Decontaminate skin with Chloraprep FREPP (2% chlorhexidine)
- ❑ Allow to dry (30 secs)
- ❑ DO **NOT** re-palpate vein (avoiding contamination)







Assemble Monovette components



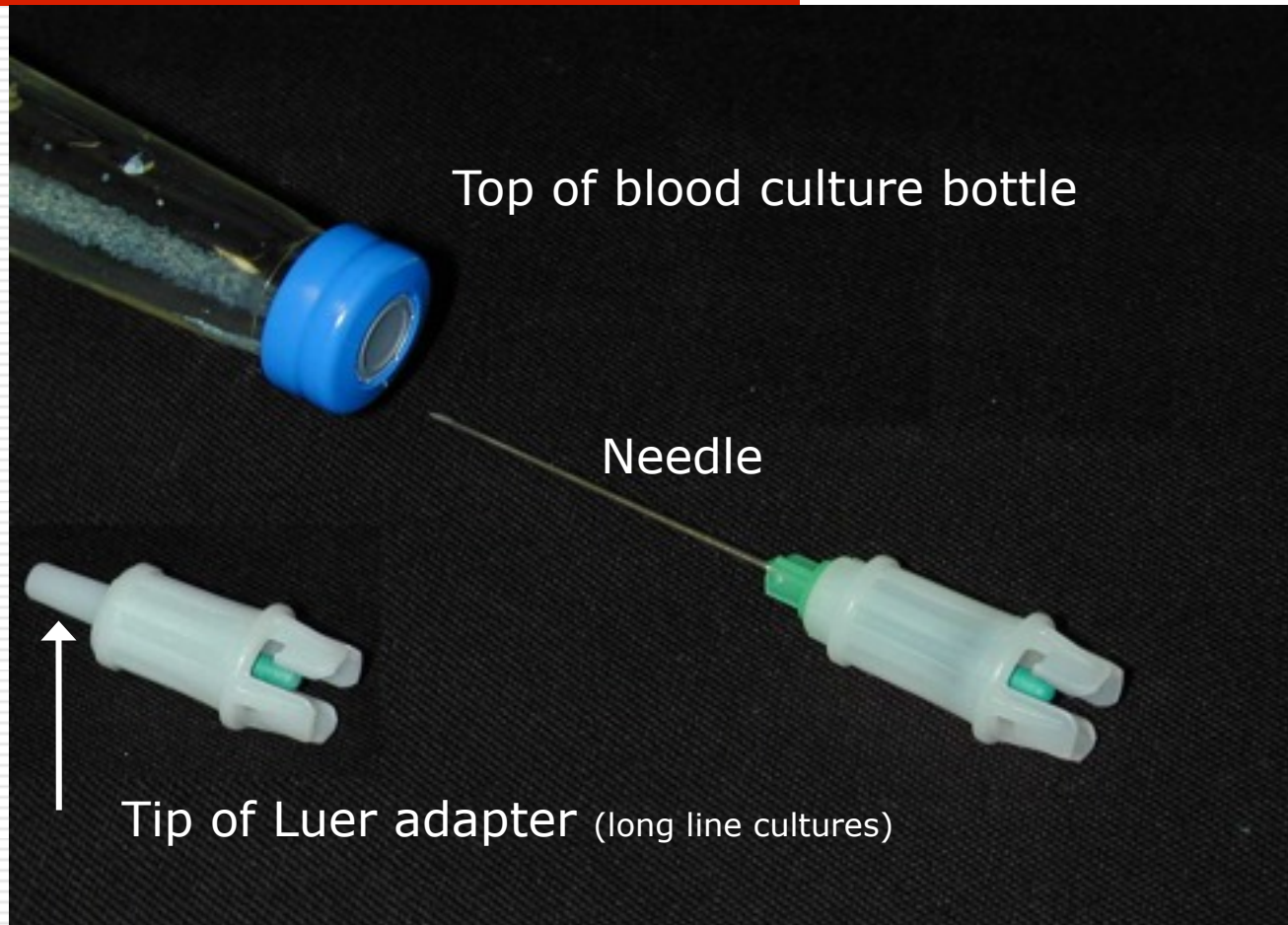
Draw blood sample

- Take blood sample according to ANTT principles
(Aseptic No Touch Technique)



To continue click on the key parts in this slide...

Key parts in blood culture technique



Prepare culture bottles...

1. Remove plastic tops & decontaminate bung with Sani-Cloth CHG 2% chlorhexidine
2. Allow to dry (30 secs)
3. Pierce each bottle with a new S-Monovette needle



Transfer of samples...

- ❑ Attach S-Monovette syringe to pre-prepared Monovette needle

- ❑ Do not “inject”
the sample will transfer by vacuum



Disposal.....

- ❑ Remove Monovette syringe **FIRST**
(to prevent 'splashback')
- ❑ Remove used syringe & needle
- ❑ Place in sharps bin **IMMEDIATELY**



Post procedure . . .

- Remove PPE
 - Decontaminate hands
 - Complete documentation
 - Label bottles by hand
 - Complete Microbiology request form
 - Attach bar code from bottle to REQUEST form (not in the notes)
 - Bag & send to lab
-

Don't forget...

- Document in medical notes:
 - WHY...sample required
 - WHERE...site sample obtained from
 - WHO...took sample
 - WHEN...date & time

Go back to the start of the session

Return to start of
Peripheral blood culture instruction

Proceed to “long line” (CVC) blood culture
instruction

Wash Hands correctly.....



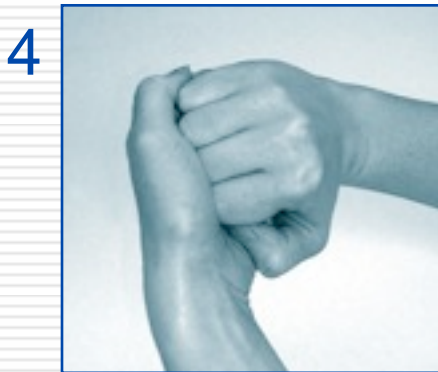
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WRISTS**

You will require the following items for invasive line culture...

- Apron
 - Gloves
 - ?Eye protection
 - Trolley / clean surface
 - Cleaned Red ANTT tray
 - Sanicloth CHG 2%
 - S-Monovette Syringes (1 for each culture bottle)
 - Monovette multi-adapter (X1)
 - Monovette needles (1 for each culture bottle)
 - Blood culture bottles
 - Saline flush and syringe(s)
 - Sharps bin
 - Paperwork
 - Forms
-

Sampling from 'long' lines....

- ❑ Gather equipment and take to patients bedside
- ❑ Decontaminate hands following 7 step technique



What's missing from this tray?

Sampling from 'long' lines....

- ❑ Gather equipment and take to patients bedside
- ❑ Decontaminate hands following 7 step technique



The saline flush and syringe(s)

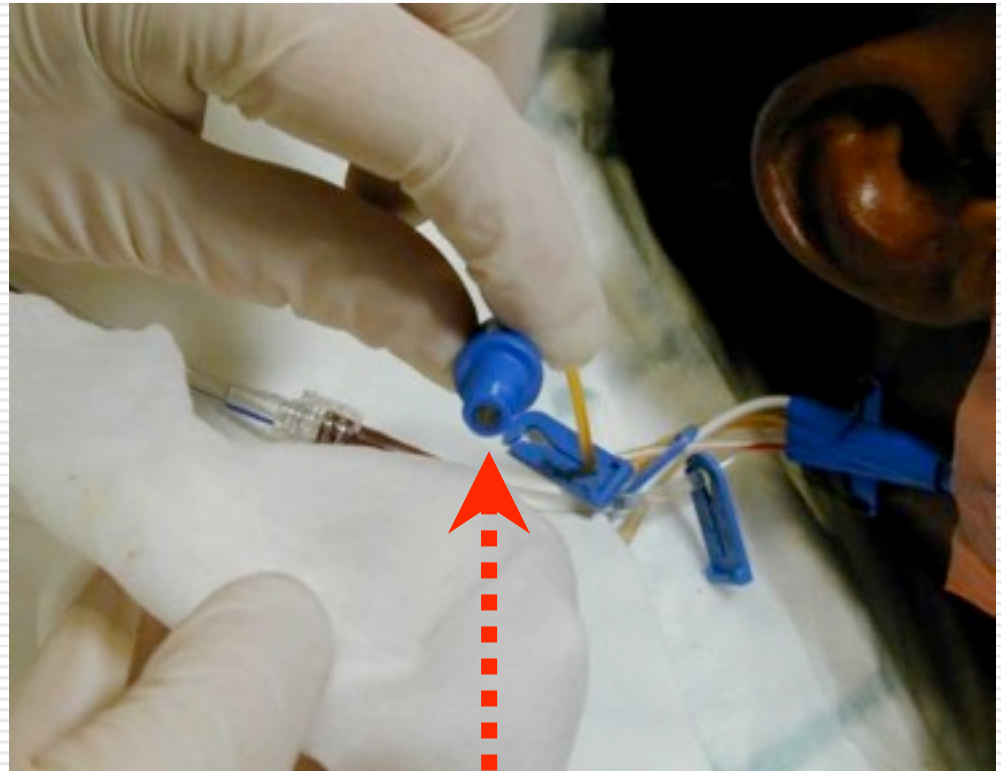
Choose Lumen...

- ❑ Don PPE, decontaminate hands (again)
- ❑ Identify lumen to be sampled
- ❑ Ensure any IV fluids in progress are 'paused' for procedure



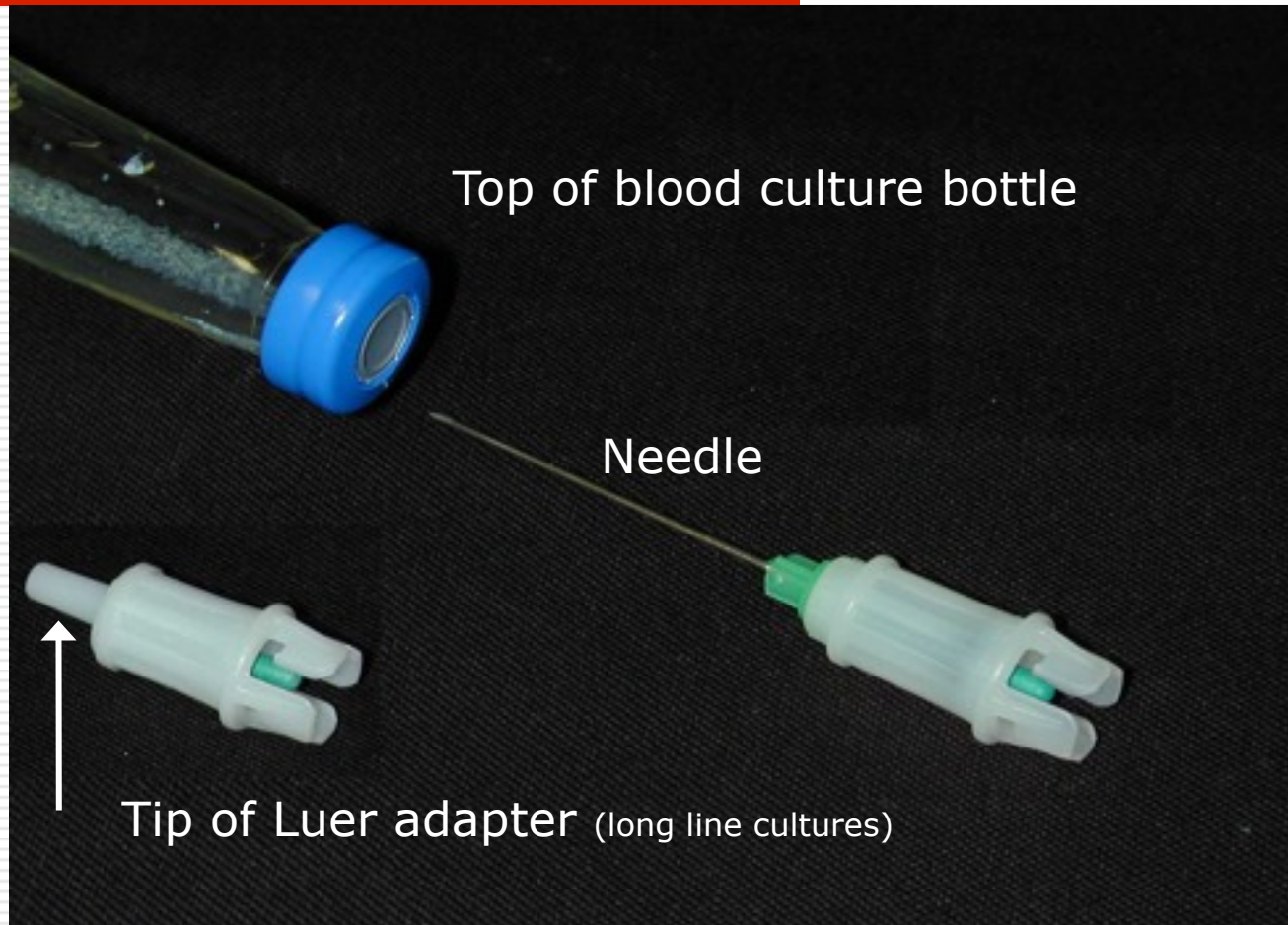
Lumen care....

- ❑ Create 'aseptic' field
- ❑ Decontaminate access port with Sani-cloth 2% Chlorhexidine and allow to dry (30 secs)



Access port is a "Key Part"

More "Key Parts" in blood culture technique



Assemble equipment...

- ❑ Attach Monovette 'adaptor' to chosen lumen
- ❑ Unclamp lumen to be sampled
- ❑ Attach S-Monovette syringe to adaptor
- ❑ Obtain sample
- ❑ DO NOT 'LOCK' PISTON INTO BASE



Post procedure...

- Remove syringe & adaptor
- Flush line with 10mls of previously prepared 0.9% sterile saline solution
- Recommence any 'paused' IV fluids

Prepare culture bottles...

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Last resort.....femoral stabs

- ❑ **ONLY** to be considered if **NO OTHER** access possible
 - ❑ **ENSURE** skin is **CLEAN** (wash with soap & water/patient wipe)
 - ❑ **THEN** decontaminate with Chloraprep FREPP (2% Chlorhexidine)
 - ❑ **NB:** 2 healthcare workers are needed to do this in a safe manner
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Any questions?.....

- Contact your local Infection Prevention Team

OR

- Training & Education Dept
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