



## URINE SAMPLE COLLECTION

### 1. Introduction

Urine is one type of specimen that can be easily collected from a patient. Urinalysis testing can give the doctor valuable information about many body systems especially kidney function. The physician uses the information from urine culture and urinalysis to diagnose and treat many diseases.

### 2. Material Required

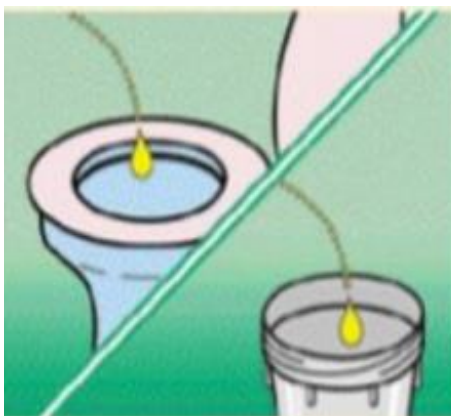
- Clean, screw-capped, wide mouth, leak proof container for microscopic routine examination.
- Sterile, screw-capped, wide mouth, leak proof container for culture & sensitivity.



Figure 1 Urine containers

### 3. Procedure (for First voided specimen)

1. First morning voided urine specimen is preferred.
2. Clean external genitalia with soap and water if possible. Then wipe with tissue. Antiseptic should not be used.
  - For female, spread labia with two fingers and clean the area from front to back.
  - For male, gently pull the foreskin before washing glans penis.
3. Advise the patient to pass out the first portion of urine and to collect midstream urine specimen for culture and sensitivity into a wide mouth sterile container directly for about half of the container.
4. Tighten the container lid.
5. Do not collect the sample from bedpan and urine bag.
6. Transport immediately to the laboratory along with the requisition form.
7. If delay of more than one hour, refrigerate specimen at 4 °C until delivery to the laboratory with cold chain.

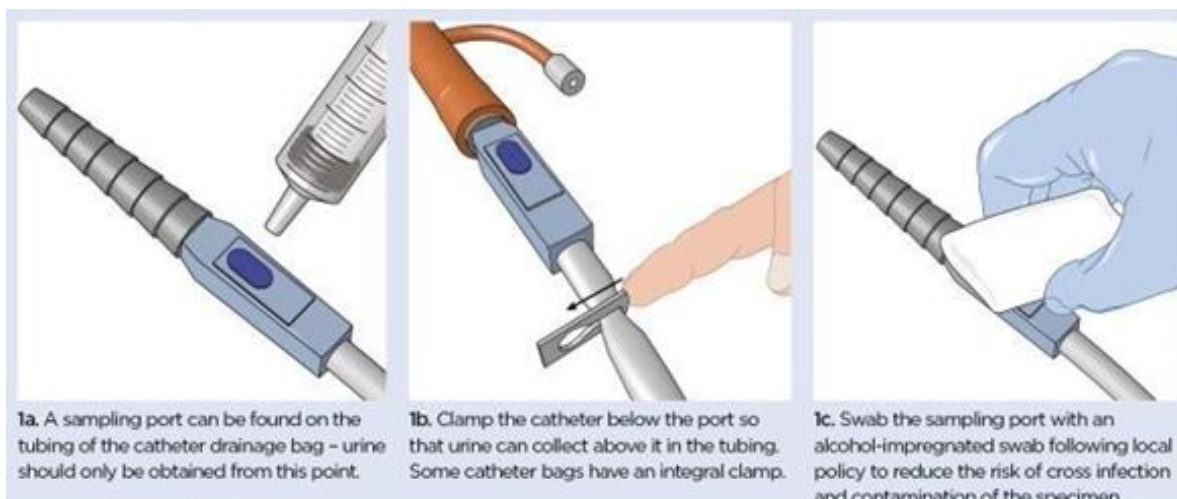




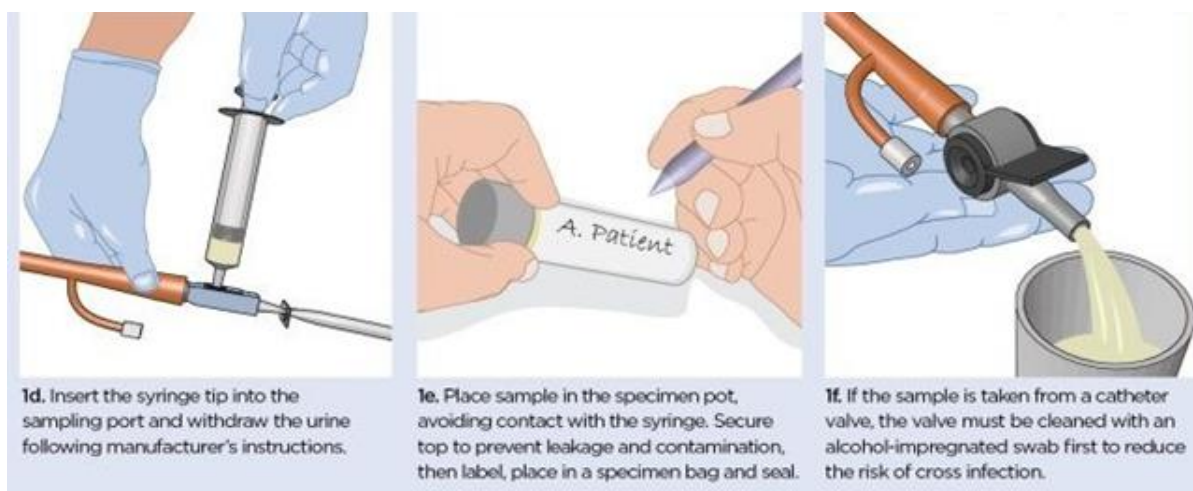
## 4. Procedure (for the patient with Urinary Catheter)

These specimens are collected by specially trained personnel (**special nurses**) only.

1. The nurse should wash hands & wear a new pair of clean, gloves.
2. Most catheters have a sampling port located on the catheter's tubing near the end of the catheter that is attached to the collection bag.
3. To obtain a sample, clamp the tubing a few centimeters below the sampling port. Wait until sufficient urine collects before proceeding.
4. Cleanse the sampling port with an alcohol-impregnated swab and allow to air dry.



5. Insert the sterile syringe into the port. Aspirate urine and remove the syringe from the port.
6. Transfer the urine into the sterile container immediately to avoid contamination. Swab the port again to reduce the risk of contamination and remove any clamp used.
7. Transport immediately to the laboratory along with the requisition form.
8. If delay of more than one hour, refrigerate specimen at 4°C until delivery to the laboratory with cold chain.



## References

- Basic Laboratory Procedures in Clinical Bacteriology, (2003), J. Vandepitte *et al.*, WHO Geneva, 2<sup>nd</sup> Edition.
- <https://www.nursingtimes.net/clinical-archive/assessment-skills/specimen-collection-2-obtaining-a-catheter-specimen-of-urine-10-07-2017/>