



Dublin Academic Medical Centre

Standard Operating Procedure Dublin Academic Medical Centre UCD Clinical Research Centre

SOP Number 3.3

**Version
Number** 1

SOP Title Urine Collection

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Purpose

This SOP describes the procedure for urine sample collection from research subjects

Specific procedure

Safety

1. The research personnel will have been deemed competent in the procedure of urine collection.
2. The research personnel will wear gloves at all times during urine collection.
3. Research personnel will use appropriate barrier precautions, such as gloves, gowns, masks, and protective eyewear to prevent exposure to skin and mucus membranes when working with known infectious research subjects
4. Urine specimen containers will not be labelled in advance of urine collection.
5. Bar-coded labels will be applied to all urine specimens immediately after urine collection.



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6. The research personnel will ensure that the lids of the urine specimen containers are securely replaced so that leakage does not occur during transport.
7. Using gloves, urine spillages will be covered with Milton or “Presept” granules, mopped up with paper towels and discarded into puncture-resistant incineration containers.

Procedure

Mid Stream Urine Specimens

1. The research personnel will greet the research subject, identify themselves, and then indicate the urine collection procedure to the research subject.
2. The research subject will be approached in a friendly calm manner and their co-operation will be gained prior to urine collection
3. The research subject will be correctly identified prior to urine collection, by asking them to give their name and date of birth.



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4. All sample containers and equipment needed to competently and efficiently carry out the urine collection will be assembled prior to the procedure.
5. The research subject will be asked to provide a urine sample by instructing them to discard the first part of the voided urine and without disrupting the flow to collect approximately 10mls of urine in the sterile container.
6. Bar-coded labels will be applied to all urine specimens immediately after urine collection.
7. The research personnel will arrange for the urine specimens to be transported to the research laboratory as applicable.

24 Hour Urine Collection

1. The research personnel will greet the research subject, identify themselves, and then indicate the urine collection procedure to the research subject.
2. The research subject will be approached in a friendly calm manner and their co-operation will be gained prior to urine collection



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3. The research subject will be correctly identified prior to urine collection, by asking them to give their name and date of birth.
4. All sample containers and equipment needed to competently and efficiently carry out the urine collection will be assembled prior to the procedure.
5. The research subject will be asked to empty his/her bladder and discard the first morning urine void.
6. The 24 hour urine collection will commence with the empty bladder and the research subject will note the time of emptying.
7. All urine over the next 24 hours including the last specimen at the same time the next day will be saved and collected in the container provided.
8. The research personnel will ensure that an accurate 24 hour urine collection has been made by the research subject prior to labelling and transport of the specimen to the research laboratory.

Catheter Specimen of Urine



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1. The research personnel will greet the research subject, identify themselves, and then indicate the urine collection procedure to the research subject.
2. The research subject will be approached in a friendly calm manner and their co-operation will be gained prior to urine collection
3. The research subject will be correctly identified prior to urine collection, by asking them to give their name and date of birth.
4. All sample containers and equipment needed to competently and efficiently carry out the urine collection will be assembled prior to the procedure.
5. If the catheter specimen of urine is to be collected from an indwelling catheter the specimen will be obtained aseptically from a sample port in the catheter tubing. The sample will not be obtained from the collection bag.
6. If the catheter specimen of urine is to be collected from a transient catheter the specimen will be obtained via a catheter passed aseptically into the bladder.
7. Bar-coded labels will be applied to the urine specimen immediately after urine collection.



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8. The research personnel will arrange for the urine specimen to be transported to the research laboratory as applicable.

Change History

SOP no.	Effective Date	Significant Changes	Previous SOP no.