



Dublin Academic Medical Centre

Standard Operating Procedure Dublin Academic Medical Centre UCD Clinical Research Centre

SOP Number 3.1

**Version
Number** 1

SOP Title Blood Collection

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Purpose

This SOP describes the procedure for blood collection from research subjects.

Specific procedure

Safety

1. The research personnel will have been deemed competent in the procedure of venipuncture prior to any blood collection.
2. The research personnel will have been deemed competent to respond in the event of fainting or any other adverse event during or after the blood collection procedure.
3. The research personnel will greet the research subject, identify themselves, and then indicate the blood collection procedure to the research subject.
4. The research subject will be approached in a friendly calm manner and their cooperation will be gained prior to blood collection



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5. The research subject will be correctly identified prior to blood collection, by asking them to give their name and date of birth.

6. The research subject will be positioned safely and comfortably in the chair provided for venipuncture, ensuring that the protective arm is in the correct position to support the research subject in the event of fainting or any other adverse event.

7. The research subject's mouth will be free from food or gum prior to venepuncture.

8. All sample containers and equipment needed to competently and efficiently carry out the venipuncture will be assembled prior to the procedure.

9. The research personnel will wear gloves at all times during venepuncture.

10. 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

11. The research personnel will ensure that needles should never be broken, bent or recapped.



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12. The research personnel will take care to prevent needle stick injuries when using and disposing of needles.
13. Blood bottles will not be labelled in advance of venepuncture.
14. Bar-coded labels will be applied to all blood samples immediately after venepuncture.
15. A sharps container will be placed close to the use-area as practical.
16. Using gloves, blood spillages will be treated with actichlor plus or following hospital policy as required.

Procedure

1. The research subject's arm will be hyperextended and positioned comfortably on the arm-rest of the venipuncture chair.
2. The tourniquet will be applied 3-4 inches above the selected puncture site and will not be left in position for longer than two minutes.



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3. The research subject will be asked to make a fist without pumping the hand.
4. The puncture site will be cleansed with Sterets pre-injection swab using a circular motion from the centre to the periphery.
5. The cleansed site will be allowed to air dry prior to venepuncture.
6. The research subjects vein will be anchored and the needle will then be inserted through the skin, bevel edge uppermost, into the lumen of the vein.
7. The tourniquet will be released when the last specimen tube to be drawn is filling.
8. Clean dry gauze or cotton wool will be placed on the venipuncture site and the needle will be removed in a swift backward motion using a needle protector.
9. The research personnel will press down on the gauze/cotton wool once the needle has been drawn out of the vein applying adequate pressure to avoid formation of a haematoma.
10. The research subjects arm will not be placed in a bent position at any time following venepuncture.



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11. The research subjects arm will be inspected to ensure bleeding has stopped and a band-aid strip will be applied.

12. The research personnel will ensure that the research subject has not experienced any adverse events from the venipuncture and will then assist them from the chair.

13. All contaminated materials/supplies will be disposed of in the designated containers.

14. All blood specimen tubes will be labelled immediately at the research subjects bedside with the appropriate research study labels.



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Change History

SOP no.	Effective Date	Significant Changes	Previous SOP no.