

Immune Deficiency & Histiocytosis

Computed Tomography (CT) Induced Double-Stranded DNA Breaks Formation and Subsequent Repair as a Marker of Radiation Sensitivity

What is the purpose of this study?

People with certain genetic or inherited conditions are more sensitive to radiation than unaffected people. We want to see if we can use a special blood test, drawn after a CT scan, which is a specialized type of X-ray that uses a very small dose of radiation, to figure out which people are specially sensitive to radiation and which are not.

Who will be included?

Patients that have been diagnosed with a genetic condition that might make you more sensitive to radiation may be in the study as well as healthy individuals.

What samples/information do we need?

A total of about 3 tablespoons of blood will be taken. Your medical information will also be collected.

What is involved?

A blood sample will be taken from the IV (IV stands for intravenous catheter, which is a special tube inserted in the vein for medication or fluid) which is inserted for CT contrast or dye. If you have a central line (which is a special permanent catheter inserted into the larger vessels in chest or arm), the blood will be drawn from this line. The samples will be obtained just prior to the CT scan and at 30 minutes and one hour following the test. The next day in clinic, one more blood sample will be taken at the time of the other labs your doctor has ordered. A total of about 3 tablespoons of blood will be taken.

What will be done with the samples?

Your blood samples will be tested in the research laboratory to see if you are more sensitive to radiation.

Collection and Storage of Personal and Medical Information:

Researchers in this study will gather information about your medical history from your chart. The researchers will also review the chart to obtain information about the bone marrow transplant such as laboratory data, exams and physician progress notes.

The information from the research study may be published; however, you will not be identified in such publication.

What are the benefits?

If you agree to take part in this research study, there will not be a direct medical benefit for you. The information learned from this research study may benefit other patients with an immune disorder in the future.

Will I get all the facts about the study?

If you are interested in participating in this study, you will meet with a study coordinator who will explain all of the details of the study. The study coordinator will review the consent form and will be sure that all questions are answered. The



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consent form describes all the procedures, risks, benefits and who to contact with questions or concerns. Study procedures will not begin until the consent has been signed by the patient (if over 18 years) or the parent/guardian of the patient.

What are the risks?

A detailed list of possible risks will be provided to those patients interested in knowing more about the study.

Who should I contact for more information?

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