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# Human urine procurement and processing

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**Protocol status:** Working
**We use this protocol and it's working**

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## Abstract

Purpose: This protocol is intended for use in the collection and storage of human urine in a research setting. The protocol details the collection, processing, and long-term storage for downstream analysis alongside other tissues or samples of interest (i.e. follicular fluid, ovary).

## Guidelines

Researchers will adhere to all safety and training protocols required by the institution (Northwestern Medicine/Northwestern
University) including but not limited to:

1. Biosafety Certification
2. Bloodborne Pathogens Certification
3. Collaborative Institutional TrainingInitiative (CITI program) Certification

## Materials

1. Parter Medical Products™ Sterile Specimen Cups (Fisher Scientific, 22-150-265 or equivalent)
2. Corning 5 mL Internal Threaded Polypropylene Cryogenic Vial, Self-Standing with Round Bottom (Fisher Scientific, 09-761-69 or equivalent)

## Safety warnings

Researchers will wear personal protective equipment when working with human specimens, including gloves, masks, and lab coats.

## Ethics statement

Human urine procurement and processing will adhere to the approved IRB protocol approved through NU (NU12G09) for collection of biofluids associated with study participants through Northwestern Medicine.

1 A urine sample is collected in a standard specimen cup during pre-op from a nurse. Once the urine sample has been collected it is placed immediately on ice following collection. A research coordinator will bring the urine sample to the lab on ice (2-4 °C). Urine samples should be transported in a blue, biohazard labeled cooler bag (Fig. 1A, B).

2

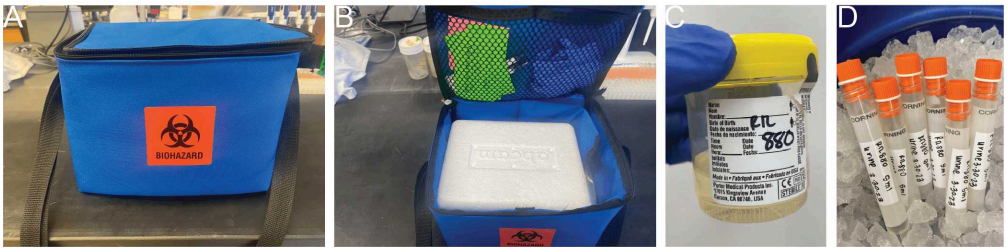


**Fig. 1.** Urine collection and processing overview. Urine samples are collected and transported to the research coordinator on ice in a blue biohazard labeled cooler bag (A, B). Upon arrival a photo is taken of the urine biospecimen cup (C) the urine sample is then immediately aliquoted into 5ml cryovials (D) and then stored at -80°C until analyzed.

3 On arrival the urine sample biospecimen cup is photographed and then aliquoted from the specimen cup (Fig. 1C) into 5 mL cryovials (Fig. 1D) and then stored at -80°C until analysis.