Collect blood and urine samples for each person involved in the chemical-exposure event.

**Note:** For children, collect only urine samples unless otherwise directed by CDC.

### Blood-Sample Collection

For each person, collect blood in glass or plastic tubes in the following order:

1. collect specimens in three (3) EDTA (purple-top) 4 mL or larger plastic or glass tubes;
2. collect another specimen in one (1) gray- or green-top tube.

Collect the specimens by following the steps below:

1. Collect a minimum of 12 mL of blood in three (3) 4 mL or larger glass or plastic tubes. If using 3 mL tubes, use four tubes.

   ![Image of blood collection tubes](image)

   Do not use gel separators.

2. Mix contents of tubes by inverting them 5 or 6 times.

   ![Image of mixing tubes](image)

   Label tubes in order of collection: #1, #2, #3

3. Place bar-coded labels on each tube, so that when the tubes are upright, the barcode looks like a ladder.

   ![Image of bar-coded labels](image)

   Store samples at 1°C to 10°C. Do not freeze.

4. After collecting samples in the purple-top tubes, collect one (1) sample in a gray- or green-top tube (gray-top tube shown). Allow the tube to fill to its stated capacity.

   ![Image of gray-top tube](image)

   Do not use gel separators.

5. Mix contents of the tube by inverting it 5 or 6 times.

   ![Image of mixing tube](image)

6. Place bar-coded labels on the tube, so that when the tube is upright, the barcode looks like a ladder.

   ![Image of bar-coded labels](image)

   Store samples at 1°C to 10°C. Do not freeze.

### Urine-Sample Collection

For each person, collect 25 mL-50 mL of urine in a screw-cap urine cup.

Label the urine cup with the appropriate bar-coded label as shown. Indicate on the cup how the sample was collected if the method was other than "clean catch" (i.e., catheterization).

Freeze samples (optimally at -70°C).

Place bar-coded labels on all cups so that when the cup is upright, the barcode looks like a ladder.