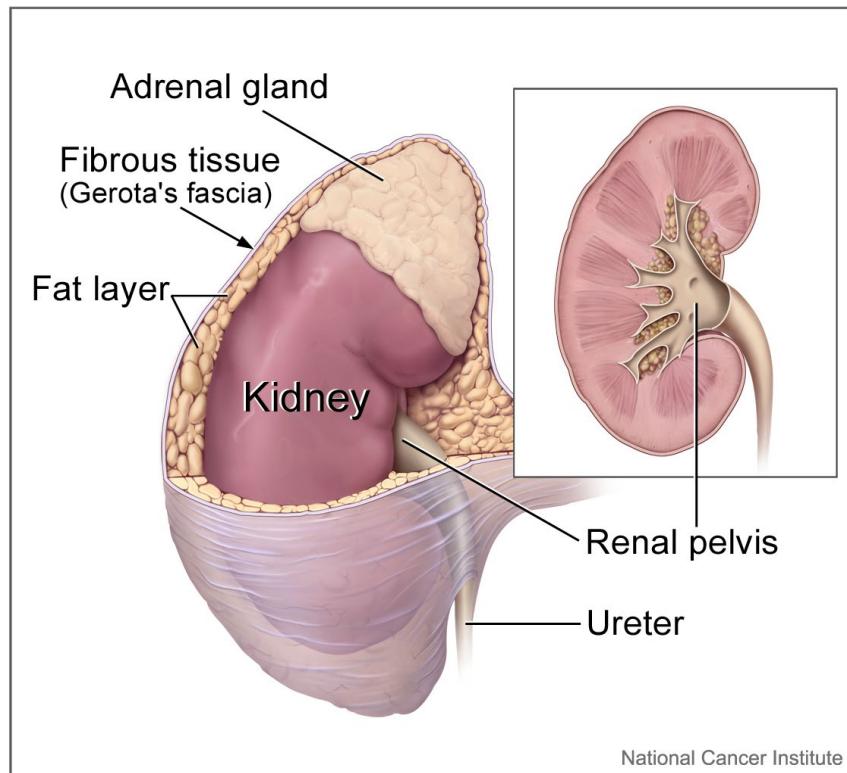
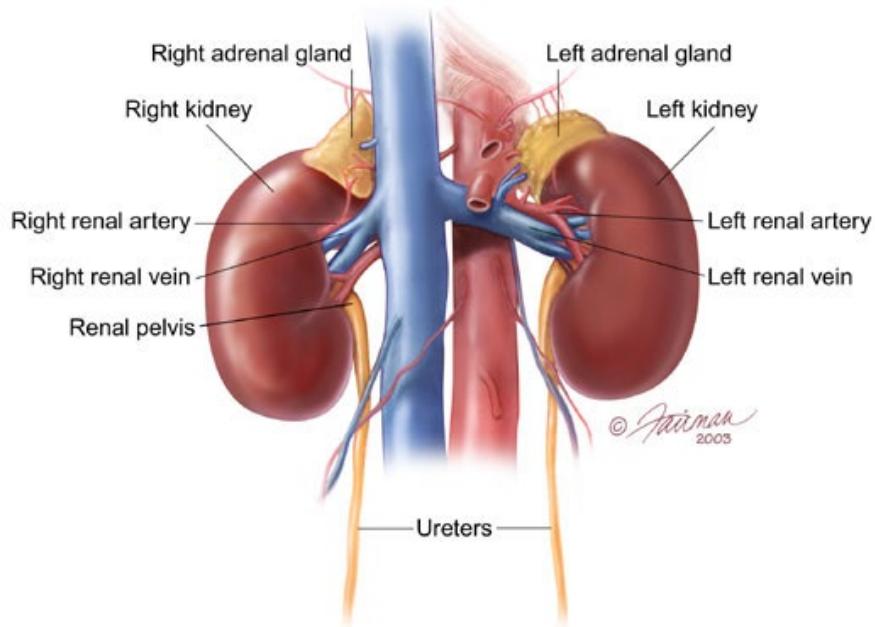


Genitourinary Grossing Guidelines

Specimen Type: NEPHRECTOMY FOR TUMOR



Genitourinary Grossing Guidelines

Procedure:

1. Weigh and measure overall dimensions of specimen. Ink the surface of Gerota's fascia or perinephric fat, either the entire surface or the surface overlying a palpable tumor.
 2. Orientation: from anterior to posterior -> vein, artery, ureter
 3. Inspect perinephric fat for adrenal, tumor extension; palpate for hilar lymph nodes.
 4. Locate ureter (often with a staple or clip at the distal end). Measure the length and diameter of ureter. Locate renal arteries and vein, look for tumor thrombus in the renal vein.
 5. Remove vascular and ureteral margins and place in cassette, en face.
 6. Place a probe into ureter, and extend it into renal pelvis. Open ureter along its length. Examine ureteral mucosa.
 7. At renal hilum, push one probe through renal pelvicalyceal system and push through parenchyma of superior pole of kidney.
 8. Place second probe in renal pelvicalyceal system and push through parenchyma of inferior pole of kidney.
 9. Using 2 probes as guides, divide kidney in two complete halves, cutting through the renal pelvis. Completely open pelvis, calyces, and renal veins.
 10. Measure kidney.
 11. Look for renal sinus invasion, renal vein invasion, and capsular invasion by tumor. Measure and describe adrenal (? tumor involvement) if present.
 12. Photograph half of the specimen or both halves.
 13. Describe tumor: single/multiple lesions, dimensions, demarcation, color, texture, hemorrhage/necrosis/cystic degeneration, extension into renal sinus/into renal vein/through capsular surface, areas of sarcomatoid differentiation.
 14. After taking sections of tumor, bread loaf the uninvolved kidney in 1 cm interval, look for additional lesions, describe uninvolved kidney: external surface, cortex, medulla, and pelvis.
 15. Look for hilar lymph nodes.
- For any solid or solid-cystic tumor > 2 cm → collect tissue for cytogenetics
 - Place order for cytogenetics (Karyotype only) – Directions for ordering below
 - Place Karyotype label on RPMI container
 - Send sample to cytogenetics lab on next available courier
 - DO NOT PLACE SPECIMENS IN BACK FRIDGE OF LAB
 - For tumors < 2 cm, cystic tumor without solid component, or urothelial cancers → do not need to collect tissue for cytogenetics

Genitourinary Grossing Guidelines

Gross Template:

MMODAL Command: "INSERT KIDNEY TUMOR"

It consists of a [right, left***], [weight***] gram, [measure in three dimensions***] cm total nephrectomy. The kidney alone measures [measure in three dimensions***] cm. The ureter measures [***] cm in length x [***] cm in diameter. The renal artery measures [***] cm in length x [***] cm in diameter. The renal vein measures [***] cm in length x [***] cm in diameter.

Sectioning reveals a [measure in three dimensions***] cm [describe lesion- circumscription, encapsulation, color, consistency***] located in the [upper, mid, lower pole***]. The lesion extends [into the renal sinus, perinephric fat, to Gerota's fascia, into the pelvicalyceal system, into the renal vein, adrenal gland, other***]. The lesion measures [***] cm from the Gerota's fascia/perinephric fat margin and [***] cm from the renal vein margin.

The remaining parenchyma is [unremarkable, or describe additional pathology***]. The corticomedullary junction is [distinct/ poorly defined***]. The pelvicalyceal system [is/ is not***] dilated. [Describe calculi if present, and if the pelvicalyceal system is dilated***] The mucosa of the collecting system is [smooth, roughened, granular, thickened, other***]. The ureter [is unremarkable, describe stenosis, dilation, lesions present***]. No additional lesions or masses are identified. A portion of tumor tissue is submitted in RPMI for cytogenetics studies [delete if not collected/Directions for ordering on nephrectomy gross manual page***]. [Describe presence of absence of adrenal gland, if present remove, weigh and measure, and comment relationship to mass***] Representative sections are submitted. Gross photographs are taken.

INK KEY:

Black Capsule/Gerota's fascia, perinephric fat

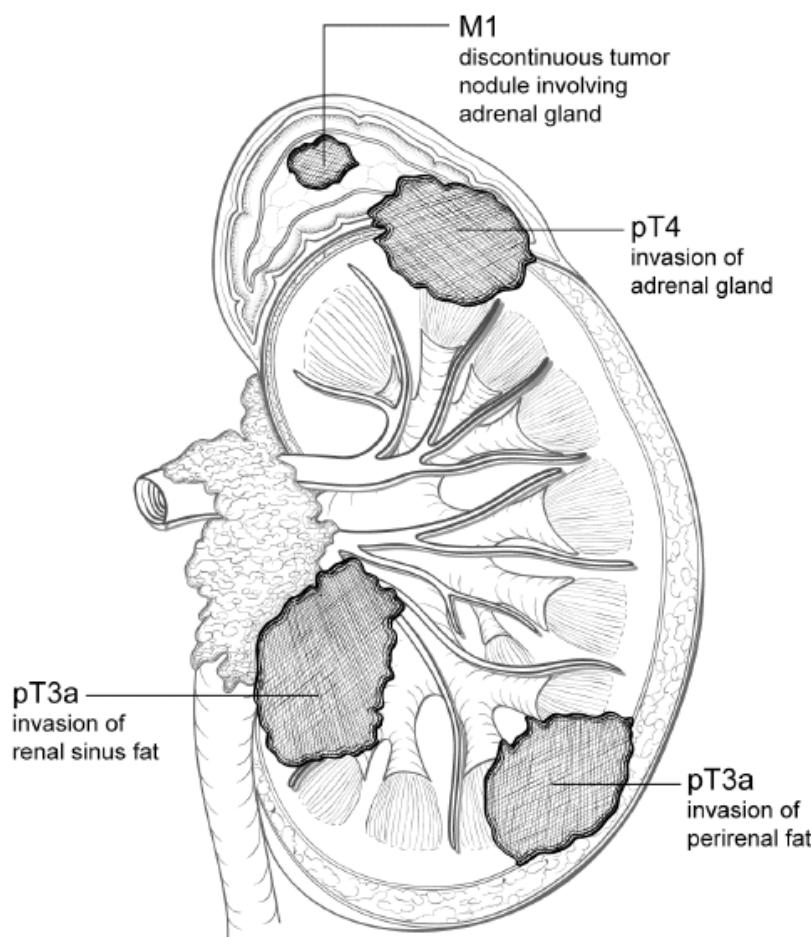
[insert cassette summary***]

Cassette Submission: 8-10 cassettes

- One cassette of non-neoplastic parenchyma (at least 2 cm away from tumor), try to include cortex, medulla, and calyceal mucosa
 - o **This should be placed in cassette A1 (It will be a pink block, which includes 1 PAS stain).**
- 1-2 cassette of vascular and ureteral margins, shave
- **If there is an adherent tumor thrombus involving the renal vein margin, ink the proximal margin and take perpendicular sections of tumor thrombus with the nearest renal vein margin**
- Tumor sections:
 - o If tumor is <3 cm → submit tumor entirely
 - o If tumor is >3 cm → submit 3 sections +1 section per cm, up to 12 sections
 - o Section to demonstrate renal sinus fat invasion
 - 1 section if tumor grossly invades sinus fat
 - 4-5 sections if no gross invasion
 - o Sections to demonstrate the perinephric fat invasion
 - o Sections to demonstrate vein invasion
 - o Sampling areas of different color and consistency
 - 1 section with necrosis

Genitourinary Grossing Guidelines

- 1 section with adjacent unremarkable kidney
 - Additional sections should be taken as needed
 - Sections of satellite nodules
 - One cassette of adrenal gland (if present)
 - Submit all hilar lymph nodes (if present)
- **WILM'S TUMOR**
- 1 section per 1 cm of tumor, up to 8 cassettes
 - Note: Any small foci beneath the capsule or adjacent to the pyramids may represent nodular renal blastema and representative sections should be obtained of these areas. As a guide, there should be one section per cm. of maximum dimension of the tumor up to 8 cm. A map of the tumor labelling the exact site of the sections taken must be included with the gross.

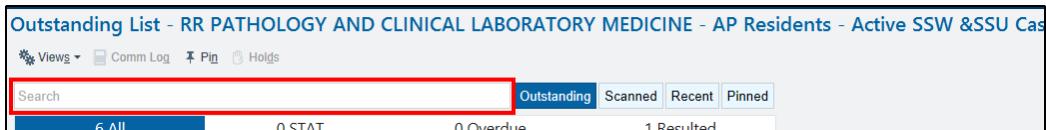


Genitourinary Grossing Guidelines

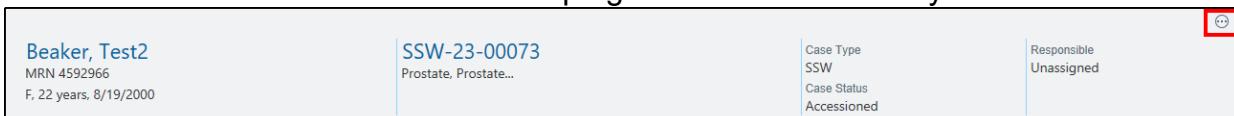
ORDERING CYTOGENETICS

A. Placing an order for Karyotype on an existing case

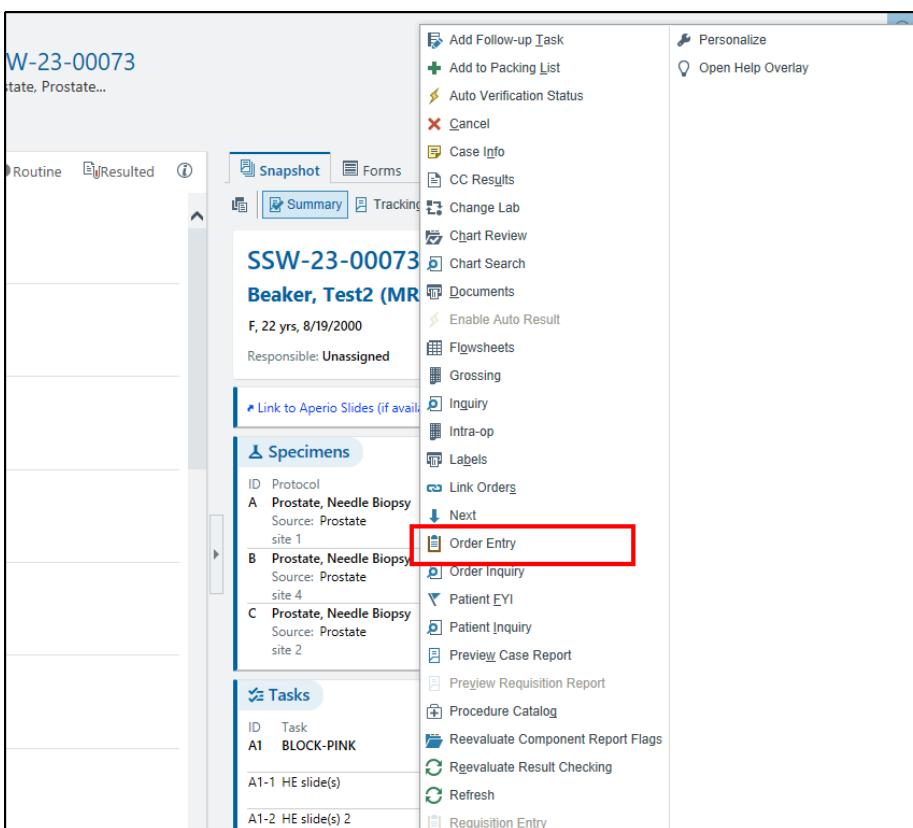
1. Open the **Case** in the Outstanding List Editor
 - a. Within the Outstanding List Editor, **scan case label** to bring up case, or enter the **Case ID** in search field in the Outstanding List Editor.



2. Verify that the correct case is open.
3. Click the **Actions** button in the top right corner of the activity.



4. Click **Order Entry**.

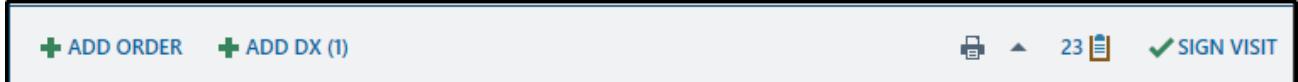


5. Based on the patients encounter (Inpatient or Outpatient) you will

Genitourinary Grossing Guidelines

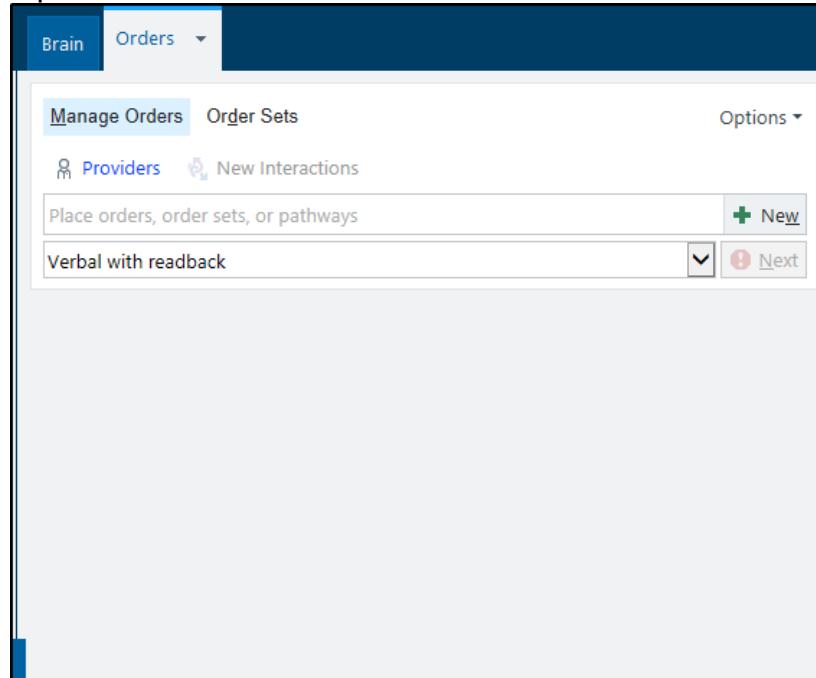
be presented with the following:

a. Outpatient encounter

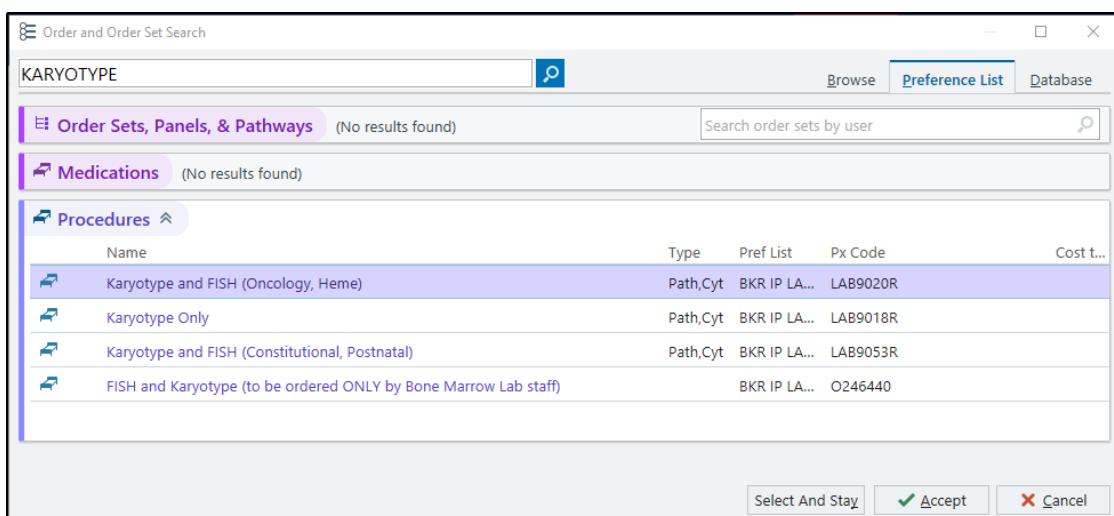


i. Select **Add Order**

b. Inpatient encounter



6. Add the **"Karyotype Only (LAB9018R)"** order.



7. Indicate the **Specimen Type** for the order.

Genitourinary Grossing Guidelines

8. Select the appropriate answers to all questions and add the relevant clinical

Karyotype Only

Reference Links:

- UCLA Test Directory Information - Amniotic Fluid
- UCLA Test Directory Information - Chorionic Villus Sampling
- UCLA Test Directory Information - Solid Tumor
- UCLA Test Directory Information - Blood, High Resolution
- UCLA Test Directory Information - Percutaneous Umbilical Cord Blood Sampling
- UCLA Test Directory Information - Tissue, Skin Biopsy
- UCLA Test Directory Information - Bone Marrow, Neoplastic Blood, Lymph Nodes
- [UCLA Test Directory Information - Products of Conception](#)
- Integrated Genetics - Sendout Requisition Form

Priority: Routine

Frequency: Once

At: 8/11/2023 1850

Process Instructions:

Please indicate Anatomic Location and any additional specimen specific information in the comment field next to each specimen. If you would like to add-on a test to a specimen that is already in the lab, please call Outreach Client Services 310-267-2680. Transport to the Laboratory immediately. Maintain at room temperature.

Specimen Type: Blood Bone Marrow Body Fluid Tissue Urine

Provider #1 to CC on Lab Results:

Provider #2 to CC on Lab Results:

Provider #3 to CC on Lab Results:

Comments: Enter additional clinical information if needed.

Modifiers:

Additional Order Details

Next Required

information in the *Comments* field.

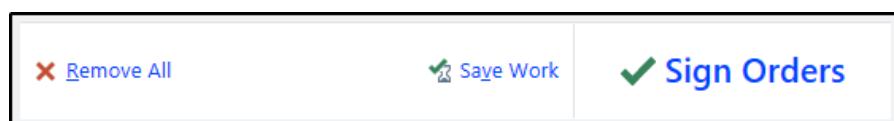
9. Click **Accept** when complete.

10. Once all the order details are filled out:

a. Outpatient: click **Sign Orders** at the bottom of the screen.

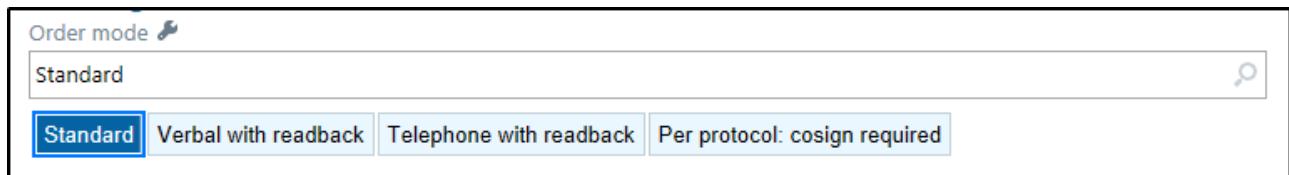


b. Inpatient: click **Sign Orders** at the bottom of the screen.



Genitourinary Grossing Guidelines

11. Select the appropriate **Order Mode**



Order mode 🔍

Standard 🔍

Standard Verbal with readback Telephone with readback Per protocol: cosign required

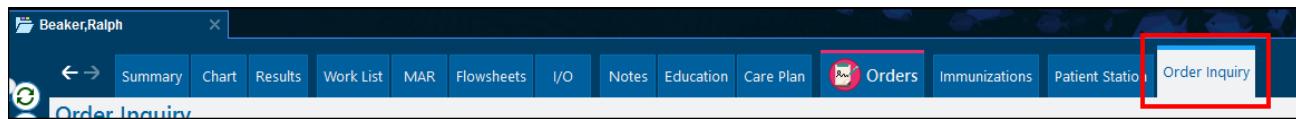
12. Verify the correct **Authorizing Provider**.

Do not select a UCLA pathologist as either the **Ordering** or **Authorizing Provider**.

13. Click **Accept**.

B. Specimen Collection and Label Printing

1. Within the patients encounter, select the **Order Inquiry** tab.



2. Select the **Karyotype** order that was placed on the patient and click **Collect Specimens**.



3. Select Print Labels within the **Specimen Collection** activity.

Genitourinary Grossing Guidelines

Specimen Collection

Collection Sequence

Sterile Container
Karyotype Only

Tissue Specimens

[Change Performing Lab](#)

Lab: RR PATHOLOGY AND CLINICAL LABORATORY MEDICINE

Sterile Container

Amniotic Fluid: 20-30ml collected in sterile tubes. **Peripheral Blood-High Resolution:** 2ml-10ml collected in Green Top (sodium heparin) tube. **Bone Marrow:** 1ml-3ml collected in Green top (sodium heparin) tube. **Chorionic Villus Sampling (CVS):** 40-50 mg budding villi collected in Sterile container with Cytogenetics transport media. **Percutaneous Umbilical Cord Blood Sampling:** 1ml-3ml whole blood collected in Green top (sodium heparin) tube. **Products of Conception, Solid Tumor:** 5-8 mm collected in tube containing cytogenetic transport media (provided by the Laboratory). **Tissue, Skin Biopsy:** 10-15 mm collected in sterile tube containing tissue culture medium (available from Cytogenetics Laboratory).

Transport to the Laboratory immediately. Maintain at room temperature.

[UCLA Test Directory Information - Amniotic Fluid](#)
[UCLA Test Directory Information - Blood, High Resolution](#)
[UCLA Test Directory Information - Bone Marrow, Neoplastic Blood, Lymph Nodes](#)
[UCLA Test Directory Information - Chorionic Villus Sampling](#)
[UCLA Test Directory Information - Percutaneous Umbilical Cord Blood Sampling](#)
[UCLA Test Directory Information - Products of Conception](#)
[UCLA Test Directory Information - Solid Tumor](#)
[UCLA Test Directory Information - Tissue, Skin Biopsy](#)

Karyotype Only Scheduled: 8/17/2023 0910
Comments: Enter additional clinical information if needed.

[Collect Later](#)

[Procedure Catalog](#) [Print Labels](#)

4. Using the barcode scanner, scan the printed label to document collection.

A. Other, Enter source information [Scan label or click to document collection](#)

Time Date Collector Department

Source Draw Type

Other, Enter source information Collection Collection

[Add Specimen Description](#)

Note: If barcode scanner is unavailable, click the *Scan label or click to document collection* hyperlink and document all the appropriate fields (if needed).

5. Once the collection required collection information has been filled in, select **Receive or Accept** and the window should automatically close.

 All collections documented!

[Procedure Catalog](#) [Reprint Labels](#) [Collect All](#) [Receive](#)