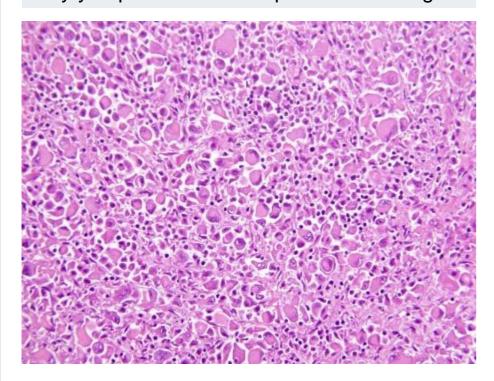
# Kidney

## **Prompt**

May you please write a report for this image?



#### GPT-4V

Microscopic Image Analysis Report

#### **Image Description:**

The image presents a high-magnification view of a tissue sample stained in a pinkish hue, typically indicative of a hematoxylin and eosin (H&E) stain, which is commonly used in histology.

## **Morphological Features:**

- 1. **Cellular Composition**: The tissue appears to be dense and contains numerous cells. Most cells exhibit a round to oval shape, each with a distinct central nucleus.
- 2. **Cellular Arrangement**: The cells are closely packed, with minimal intercellular space. This compact arrangement suggests the tissue could be of epithelial or possibly lymphoid origin.
- 3. **Nuclei**: The nuclei are round to oval, with some showing variations in size and staining intensity. This might indicate

varying levels of cellular activity or differentiation.

- 4. **Stroma**: There is minimal visible stroma or connective tissue between the cells, emphasizing the cellular density of the tissue.
- 5. **Other Features**: There are no immediately distinguishable features such as glands, vessels, or other specialized structures in the provided image.

## **Preliminary Interpretation:**

Based on the cellular composition and arrangement, the tissue could be a section of epithelial tissue or possibly lymphoid tissue, like a lymph node. However, a definitive identification would require more context, such as the source of the tissue, clinical history, and potentially additional staining methods.

## **Prompt**

This is an image of kidney tissue. What is most likely diagnostic result based on the image and report?

#### GPT-4V

Given that you've provided the context that this is kidney tissue, and based on the features observed in the image and the previous report, it appears that the tissue might be indicative of glomerulonephritis or another related condition.

In glomerulonephritis, the kidney's glomeruli – tiny blood vessels involved in the filtration of blood – become inflamed. The densely packed round to oval cells could represent inflammatory cells infiltrating the kidney tissue.

## Reference answer

Clear cell renal cell carcinoma: Clear cell RCC with rhabdoid differentiation (grade 4 by definition): large, high grade cells with abundant homogeneous eosinophilic cytoplasm and eccentric nuclei.