# Training Instructions for Reading Vaginal Wet Mounts for Clue Cells



## Evaluating Wet Mounts for the Presence of Clue Cells

- To clinically diagnose bacterial vaginosis (BV), Amsel's criteria is used.
- One of the four criteria, the presence of <u>></u> 20% clue cells per field can be difficult to determine.
- The following tips should be utilized to determine if an epithelial cell is a clue cell or not a clue cell and if there is > 20% in the field:
  - 1. Count the number of distinguishable epithelial cells in your field of view. Distinguishable epithelial cells are whole cells that are visible with a nucleus present.

## **Evaluating Wet Mounts**

2. To determine if any of the epithelial cells are clue cells, it is important to study ONLY THE BORDERS OF THE CELL. A cell is a clue cell if the borders of the cell are completely obscured with bacteria and have edges that look "grainy" or "fuzzy". If any of the border is clear, it is not a clue cell.

**Note**: It is important to realize that the surfaces of epithelial cells can look "grainy" normally due to the cell membrane's pores and this can be confused as bacteria when it is not.

### **Evaluating Wet Mounts**

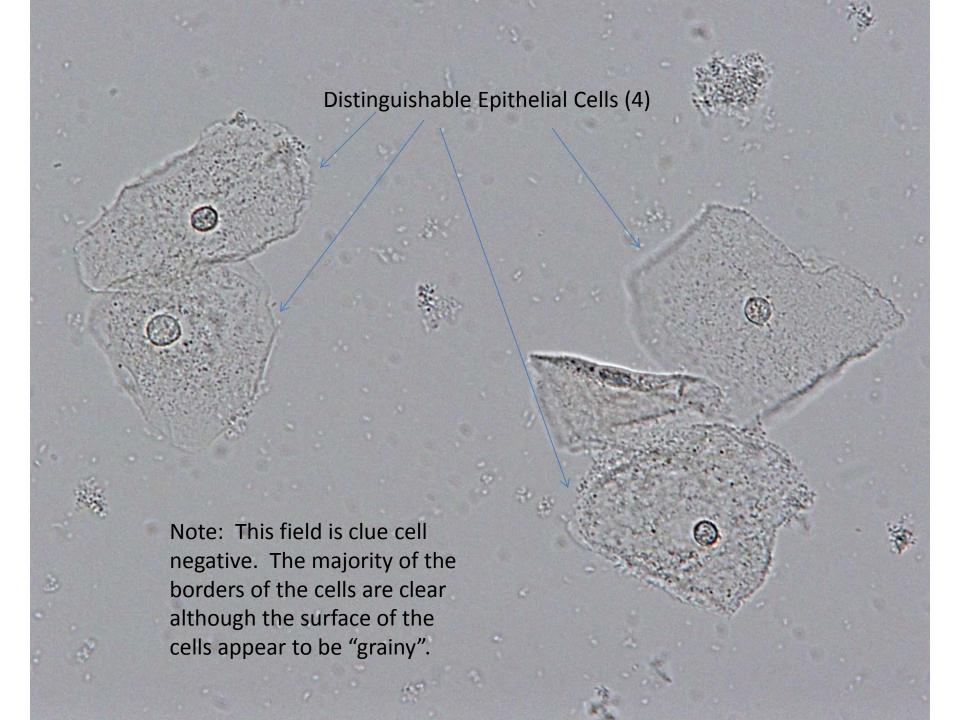
- 3. To determine the percentage of clue cells in your field:
- a. Count the number of clue cells and divide that number by the total number of distinguishable epithelial cells.

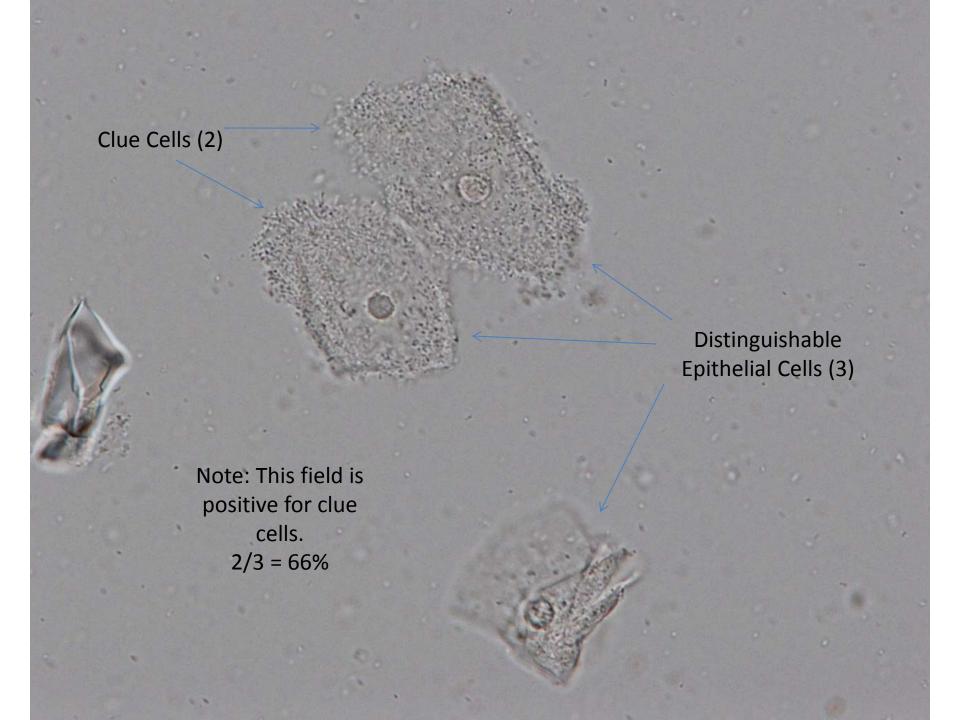
#### For example:

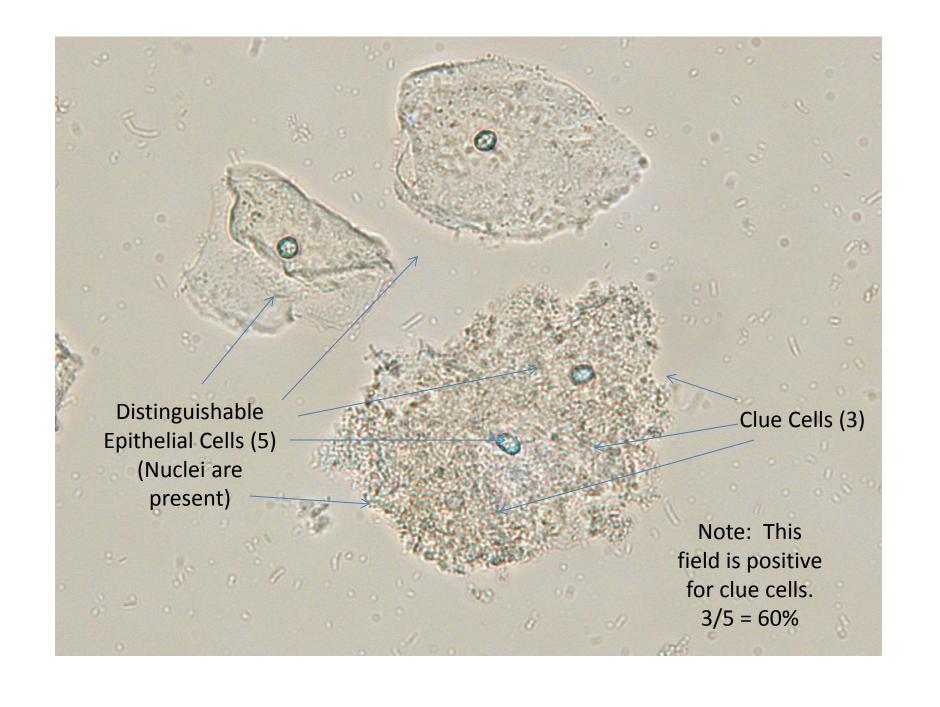
A field has 6 epithelial cells and 2 are clue cells. 2/6 = 33%. The field is positive for clue cells.

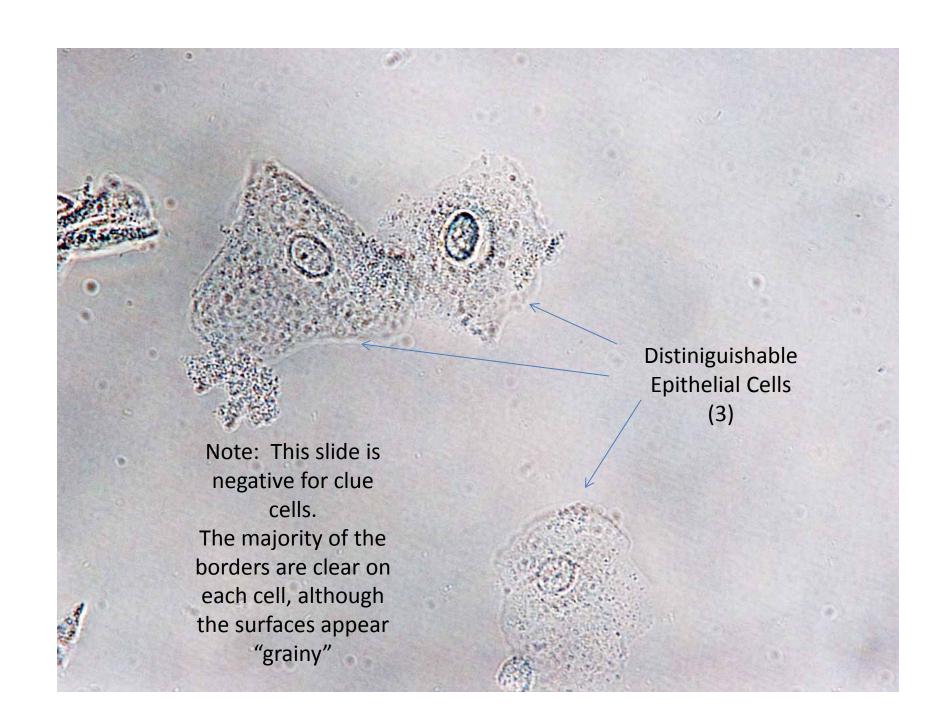
## **Evaluating Wet Mounts**

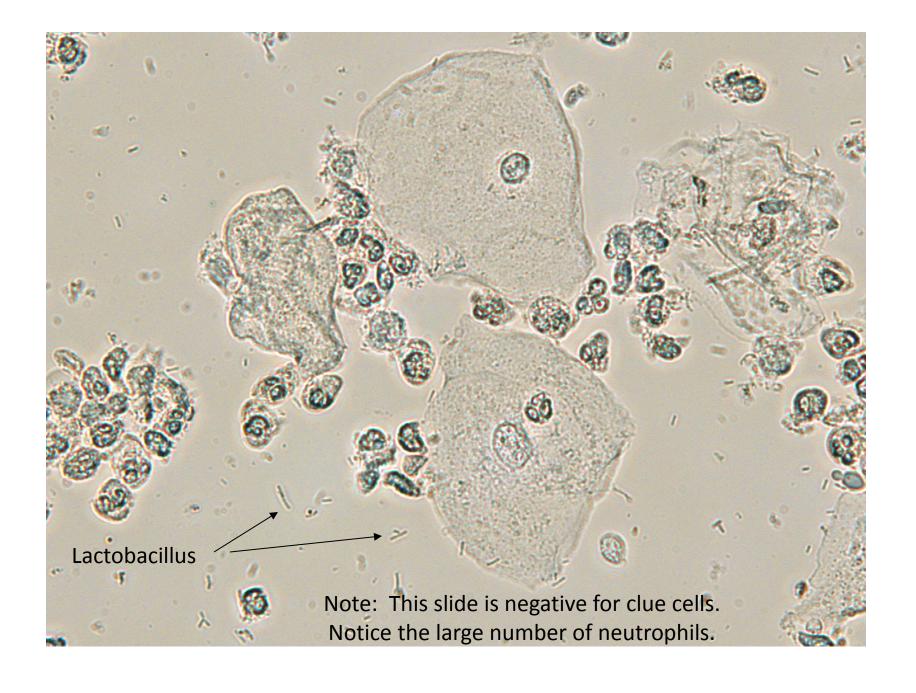
 View the following slides to see these tips utilized.

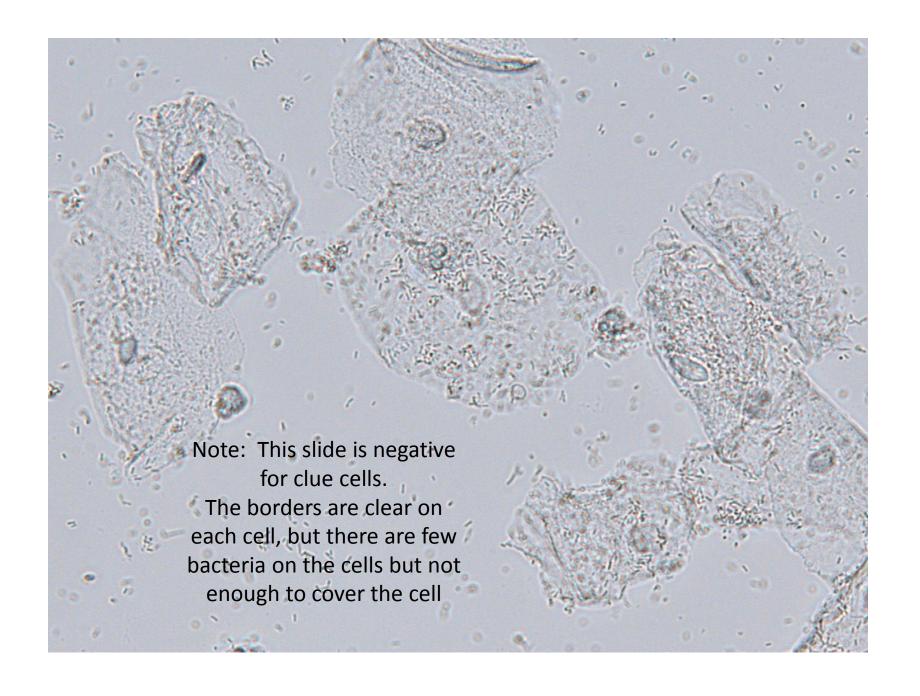


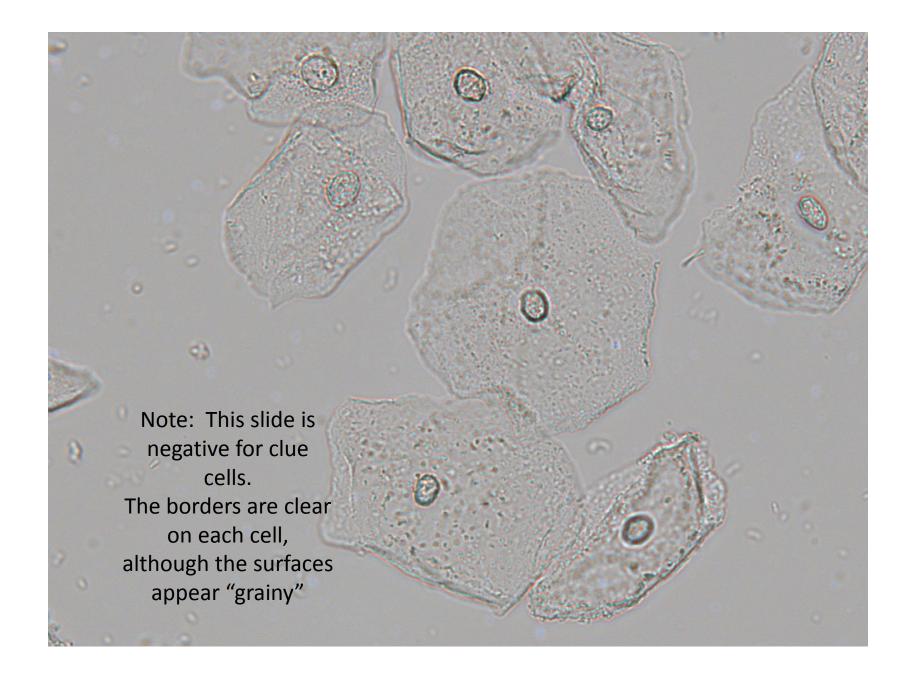


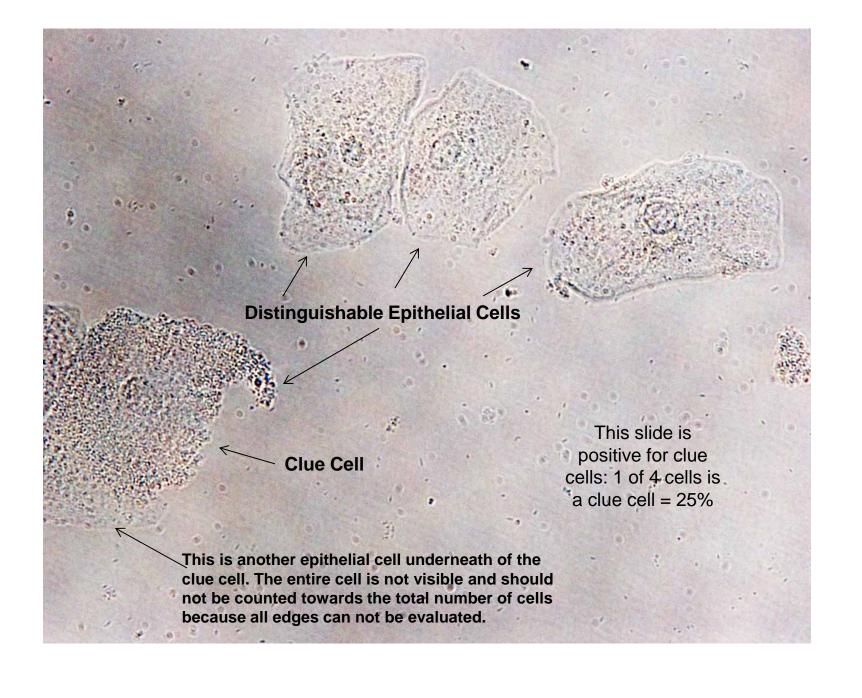


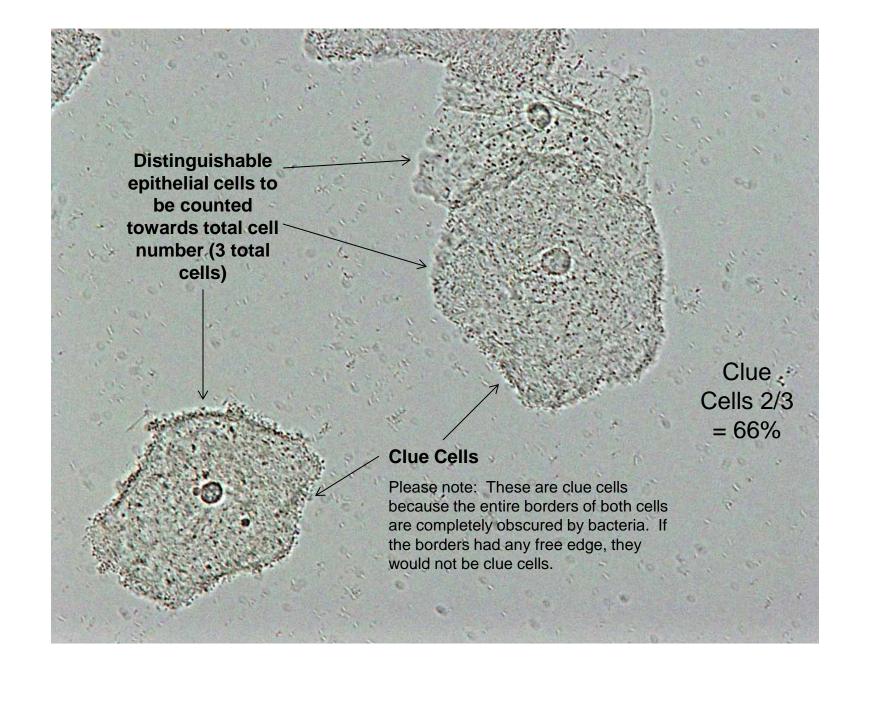




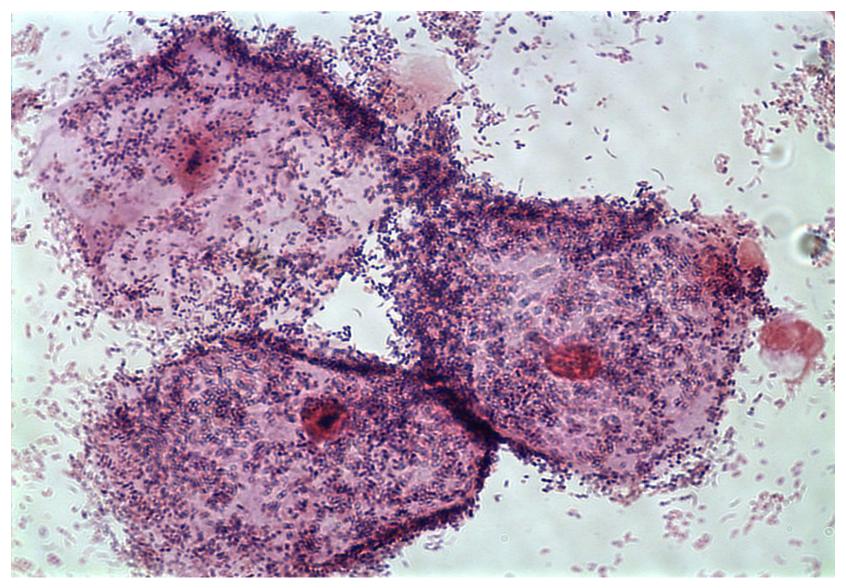








#### Gram stain of clue cells



#### Gram stain of normal epithelial cells

