

# Leukocyte Adhesion Deficiency

Name:  
Homeroom:  
Mr. Z.'s Science Class  
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Let's look at the three words in this title.

- "Leukocyte" is a word you haven't seen before. Don't panic. It's just the technical name for "white blood cell."
- "Adhesion" is what tape and glue do. I use tape to make a poster **adhere** to the wall.
- A "deficiency" is a lack of something. I am sad when my granola is **deficient** in raisins.

So, "Leukocyte Adhesion Deficiency" is a disease in which white blood cells do not stick to the walls of the blood vessels. You saw in the Inner Life of the Cell video how they normally roll along by attaching at one place before they let go at another. The white blood cells of someone with LAD are swept along uncontrollably by the current. As a result, they can't slip out of the blood to move to the site of an injury.

1. Make a cause and effect brain frame showing the effects of LAD. Fill in as many effects as you can. You can come back to this brain frame and fill more things in as you think more about it in the following problems.

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2. A doctor wants to know if someone has LAD. He makes a scrape on that person's arm. He tapes a microscope slide over the scrape, and leaves it there for half an hour. Then he takes it off, stains it, and looks at it under a microscope.

What is he looking for? How will he know if the person has LAD?

