because these walls are stiff. Okay?

So I am going to show you then how the fibers get from the air space down into this connective tissue space and into the blood space. I am going to show you that.

First, let's go back out onto the surface here because I need to show you the second line of defense.

I already talked about the first line of defense, the cilia. If I said there is a first line, that means there has got to be a second line.

A second line is a group of fascinating cells that we call macrophages. "Macro" means big, and "phage" means eater; and the macrophages are the big eaters of the lung.

We right now sitting here have millions of macrophages patrolling the surface of the lung.

They are designed specifically to pick up particles that you inhale and bypass that -- some people call it the mucociliary escalator, mucus, cilia and escalator bringing up.