



The Vaccine Race: Science, Politics, and the Human Costs of Defeating Disease

Meredith Wadman

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“This is a story about the war against disease—a war without end—and the development of enormously important vaccines, but in telling that story, in showing how science works, Meredith Wadman reveals much more. I loved this book.”

—John M. Barry, *New York Times* bestselling author of *The Great Influenza*

The epic and controversial story of a major breakthrough in cell biology that led to the conquest of rubella and other devastating diseases.

Until the late 1960s, tens of thousands of American children suffered crippling birth defects if their mothers had been exposed to rubella, popularly known as German measles, while pregnant; there was no vaccine and little understanding of how the disease devastated fetuses. In June 1962, a young biologist in Philadelphia, using tissue extracted from an aborted fetus from Sweden, produced safe, clean cells that allowed the creation of vaccines against rubella and other common childhood diseases. Two years later, in the midst of a devastating German measles epidemic, his colleague developed the vaccine that would one day wipe out homegrown rubella. The rubella vaccine and others made with those fetal cells have protected more than 150 million people in the United States, the vast majority of them preschoolers. The new cells and the method of making them also led to vaccines that have protected billions of people around the world from polio, rabies, chicken pox, measles, hepatitis A, shingles and adenovirus.

Meredith Wadman’s masterful account recovers not only the science of this urgent race, but also the political roadblocks that nearly stopped the scientists. She describes the terrible dilemmas of pregnant women exposed to German measles and recounts testing on infants, prisoners, orphans, and the intellectually disabled, which was common in the era. These events take place at the dawn of the battle over using human fetal tissue in research, during the arrival of big commerce in campus labs, and as huge changes take place in the laws and practices governing who “owns” research cells and the profits made from biological inventions. It is also the story of yet one more unrecognized woman whose cells have been used to save countless lives.

With another frightening virus imperiling pregnant women on the rise today, no medical story could have more human drama, impact, or urgency today than *The Vaccine Race*.

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David Lacey:

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Christopher Arredondo:

Playing with family inside a park, coming to see the sea world or hanging out with good friends is thing that usually you will have done when you have spare time, and then why you don't try thing that really opposite from that. One activity that make you not sensation tired but still relaxing, trilling like on roller coaster you are ride on and with addition of knowledge. Even you love The Vaccine Race: Science, Politics, and the Human Costs of Defeating Disease, it is possible to enjoy both. It is very good combination right, you still would like to miss it? What kind of hang-out type is it? Oh come on its mind hangout people. What? Still don't understand it, oh come on its referred to as reading friends.

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