“Everyone said don’t worry—natural immunity is better”: A True Story

Zoe was 13 months old when her mom, Amy, first noticed the blister on her cheek. “I never imagined that within a few short days, my baby would be in the hospital fighting for her life.”

At first, Amy did not think the blister was anything to worry about. But by the next day, there were blisters on her trunk, scalp, and face. Amy took Zoe to the pediatrician who said that Zoe had chickenpox. For her age—13 months—Zoe was up to date on all her vaccinations, but had not yet received the chickenpox vaccine. Her doctor, who followed the recommended schedule for giving the chickenpox vaccine during age 12 through 15 months, had set Zoe to get the vaccine at her 15-month check-up.

“We have no idea where Zoe was exposed to chickenpox,” Amy said. “It was summertime and we were everywhere, doing lots of activities where there were a lot of kids.”

At first, other than being a little itchy, Zoe seemed fine and was acting like her normal, happy self. “Everyone told me not to worry—she’d be fine. Some told me we were lucky that Zoe caught chickenpox, because they thought natural immunity is better than getting the vaccine,” Amy recalled. “So, I didn’t worry.”

Within a few days of noticing that first blister, Amy thought a few of the blisters looked infected. Worried, Amy called the pediatrician, who gave her instructions to continue treating Zoe at home with medicine to reduce her fever and relieve her itching. “Although she had a slight fever, Zoe was still pretty playful. I gave her some Tylenol and an oatmeal bath and put her to bed,” Amy said. “But the next morning, I had a hard time waking her up. More blisters were infected and huge chunks of her skin on her back and belly were literally falling off,” Amy recalled. She took Zoe to the pediatrician, who immediately rushed her to the hospital. “Within 4 hours of getting Zoe out of bed and to the doctor, the area of affected skin had doubled. It was the scariest thing I had ever seen.”

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While staph infections of the skin are common in infants and young children, they usually are mild. However, chickenpox blisters can provide a place for staph bacteria to enter the skin, and a serious infection can develop quickly. It’s common for chickenpox blisters to be close together and when the staph infection penetrates the skin, the skin around the infected area simply dies and falls off.

Chickenpox Symptoms

Chickenpox is a very contagious disease caused by the varicella-zoster virus. In an unvaccinated child, the first symptom of chickenpox is usually an itchy, uncomfortable rash. The rash usually first appears on the head, then spreads to the rest of the body. As many as 250 to 500 blisters and bumps may appear on the skin. Chickenpox can also cause tiredness, headache, and a fever that lasts several days. If the blister becomes infected, lifelong scarring can result.

You can still get chickenpox if you have been vaccinated against the disease. However, the symptoms are usually milder with fewer blisters and little or no fever.

Chickenpox is very contagious and spreads easily from infected people. It can spread from either a cough or a sneeze.
It can also spread by touching or breathing in the virus particles that come from the blisters on the skin.

**Chickenpox Can Be Serious**

Most children with chickenpox completely recover in one week. But, chickenpox can be serious. Serious complications include infected blisters, pneumonia, bleeding disorders, and swelling of the brain (encephalitis). Some of these complications can result in death. Chickenpox can be particularly serious for children younger than 1 year old, adolescents, adults, pregnant women, and people with weakened immune systems.

“You may recall having chickenpox when you were young, and not really being very sick,” said Dr. Jane Seward of the Centers for Disease Control and Prevention (CDC). “However, chickenpox can be very serious. I talked with the parent of a 5-year-old child who died after getting chickenpox. One day, this family had a healthy child attending kindergarten, and within a few days, the child had died of a serious complication of chickenpox.” According to Dr. Seward, “The chickenpox vaccine had just come out at the time and was not widely available.”

Before the chickenpox vaccine was widely used, nearly 11,000 people were hospitalized each year and about 50 children and 50 adults died every year from chickenpox. Most people who died from chickenpox were completely healthy before they got the disease, with no known conditions that put them at higher risk for a severe case of chickenpox.

Thanks to vaccination, serious cases and deaths from chickenpox have declined dramatically. Since the United States started using the vaccine in 1995, the number of hospitalizations and deaths from chickenpox has gone down more than 90 %.

**Benefits of Chickenpox Vaccine**

Getting the chickenpox vaccine as recommended—

- Prevents serious cases of chickenpox.
- Prevents hospitalizations and death from chickenpox.
- Protects very young children and adults, for whom this disease can be particularly serious.
- Prevents discomfort, missed days from school and work.
- Prevents chickenpox pneumonia.

**Risks of Chickenpox Vaccine**

- Mild side effects include soreness where the shot was given, fever and mild rash, which can occur in up to 1 out of every 25 vaccinated children.
- It is possible for the vaccinated person with a rash to infect other members of the household, but this is extremely rare.
- Febrile seizures (seizures caused by fever) are rare, but children who receive the MMRV vaccine are at higher risk than those who receive separate MMR and varicella vaccines. CDC recommends that MMR vaccine and varicella vaccine be administered as separate injections for the first dose.

**The Chickenpox Vaccine Prevents Serious Disease and Complications**

“The most important thing to remember is that we cannot predict which child will get a serious case or have complications from the chickenpox,” explained Dr. Stephanie Bialek at the CDC. “The chickenpox vaccine is very safe and nearly 100 % effective in preventing serious cases of chickenpox. Therefore, we recommend that children get vaccinated.”

Some children get chickenpox even after they are vaccinated, but it’s usually milder. Children who get chickenpox after vaccination typically have a mild rash with fewer than 50 spots or bumps. In fact, chickenpox after vaccination is so mild that sometimes it’s not recognized as chickenpox, because the rash looks more like insect bites than blisters. Children who get chickenpox after vaccination rarely have a high fever or complications and they recover quickly.

“When the chickenpox vaccine was developed, experts knew that some kids would develop chickenpox after receiving the vaccine. That’s OK, because the vaccine does what we need it to do—it prevents serious illness and death,” explained Dr. Meg Fisher of the American Academy of Pediatrics. “Getting the vaccine is far safer than catching chickenpox.”

**Chickenpox Vaccine: Two Doses Needed for Maximum Protection**

Two doses of the chickenpox vaccine are recommended: The first dose is recommended at age 12 through 15 months old and the second at age 4 through 6 years. “Although there is much less chickenpox disease in the United States today,” said Dr. Seward, “chickenpox is still out there and children can become infected very easily if exposed. It is important that children receive two doses of the vaccine for maximum protection against chickenpox.”

“We most often see outbreaks of chickenpox in school-aged kids, so getting the second dose at age 4 through 6 years will protect kids from chickenpox before they are most likely to catch it,” said Dr. Fisher.

The second dose helps protect children from chickenpox into adulthood as well. This is important because chickenpox can cause severe disease in adults.

**Selected References:**


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The Centers for Disease Control and Prevention, the American Academy of Family Physicians, and the American Academy of Pediatrics strongly recommend vaccines.

800-CDC-INFO (800-232-4636) [http://www.cdc.gov/vaccines](http://www.cdc.gov/vaccines)