# US health officials perplexed by vaccination skeptics

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In this Wednesday, June 4, 2008 file photo, a woman holds up a syringe with symbolic green fluid during a rally on Capitol Hill in Washington calling for the elimination of what demonstrators say are toxins in children's vaccines. Parents have been nervous about vaccines for as long as vaccines have been around. Opposition seemed to plummet for several decades, as vaccines got better and succeeded in beating back diseases, but parental concern has seemed to be on an upswing in the last 20 years. (AP Photo/Jose Luis Magana)

Public health officials in the U.S. are exasperated by their inability to persuade more parents to vaccinate their children, saying they're dealing with a small minority who are misinformed—or merely obstinate—about the risks of inoculations.

Those parents contend they have done their own research and they believe the risks are greater than health authorities acknowledge. They say they are merely making their own medical choices.

That leaves public health officials struggling to find ways to get their message across. "As scientists, we're probably the least equipped to know how to do this," said Stephen Morse, a Columbia University infectious disease expert.

Their frustration comes amid unsettling outbreaks of some vaccine-preventable diseases that had nearly disappeared from the United States.

Measles is a leading worry. Cases have jumped back into the hundreds over the last five years or so as infected travelers sparked outbreaks in poorly vaccinated communities. The fear is that if the number of unvaccinated families keeps growing, sustained spread of measles will be re-established in the United States.

"That's what we don't want to happen again," said Dr. Walter Orenstein of Emory University, considered one of the leading U.S. experts on vaccines.

Most parents do bring their children for shots, and national vaccination rates for kindergarteners remain comfortably above 90 percent. Experts aren't even sure the ranks of families who don't vaccinate are growing to any significant degree.

In this Wednesday Feb. 4, 2015 file photo, Jennifer Wonnacott holds her son, Gavin, 8 months, as she joins other mothers and children at a news conference to show their support for proposed legislation that would require parents to vaccinate all school children in Sacramento, Calif. National vaccination rates for kindergartners remain above 90 percent. (AP Photo/Rich Pedroncelli)

But in some states, the number of parents seeking exemptions from school attendance vaccination requirements has been inching up. In some communities, large proportions of households skip or delay shots.

"Part of the reason everyone is so concerned about this is because they don't know whether things will get worse," Orenstein said.

Scientists have long assumed the problem is that some parents are simply misinformed, and providing them "corrective information" will clear things up.

But some studies have shown that doesn't seem to work. For example, in the last 15 years, a leading concern of many vaccine opponents is that shots trigger autism in children. One recent study found that some vaccine-opposed parents could be presented with medical evidence disproving that, and seemed persuaded. But they also said they still did not intend to vaccinate their kids.

"People are really good at coming up with reasons to believe what they already believe," said Jason Reifler, a political scientist at the University of Exeter who co-authored the study.

In fact, vaccines can have side effects—very severe ones, in extremely rare cases that doctors can't always anticipate. "It may be one in a million or one in 2 million, but I can't tell you that it won't happen to your child," Morse said.

In this April 8, 1955 file photo, Dr. Jonas Salk, developer of the polio vaccine, describes how the vaccine is made and tested in his laboratory at the University of Pittsburgh. Around the beginning of the 20th century, vaccines were unregulated and could be as likely to harm a child as protect them. Opposition seemed to plummet for several decades, as vaccines got better and succeeded in beating back diseases that had long terrified families, including polio, measles and whooping cough. (AP Photo)

Some parents say, "I'm not willing to take that chance with my child," he added.

Parents have been nervous about vaccines for as long as vaccines have been around—at times with good reason. More than 100 years ago, vaccines were unregulated and could be as likely to harm a child as protect them. Opposition seemed to plummet for several decades, as vaccines got better and succeeded in beating back diseases that had long terrified families, including polio, measles and whooping cough.

But parental concern has seemed to be on an upswing in the last 20 years.

Family decisions about vaccinations have always involved a cost-benefit analysis, in which parents weigh the danger of the disease against side effects or other potential risks from the vaccine itself. As overall vaccination rates hit high levels and diseases became rare, some families have decided the risks of vaccination outweigh the benefits, observed Massachusetts General Hospital's Dr. Stephen Calderwood, president of the Infectious Diseases Society of America.

Another strategy is to simply make more parents vaccinate, through a concerted effort to eliminate philosophical exemptions to vaccinations or

to make the exemption application process more demanding. Several experts interviewed believed reducing exemptions is the most practical approach, in a country where individual freedoms are sometimes celebrated at the expense of the communal good.

"No other country relies on mandatory vaccinations as significantly as the U.S. does to insure high rates of vaccination," said Jason Schwartz, a medical historian who studies vaccine policy at Princeton University. "One argument is we need those mandates."