



## The science facts about **AUTISM AND VACCINES**

### WHAT STARTED THE RUMORS?



**1998**



Lancet published a paper by Dr. Andrew Wakefield, a dramatic study that found a connection between autism and vaccines

#### The Study Had Some Problems



Not based on statistics



No control group



It relied on people's memories



Made vague conclusions that weren't statistically valid

### NO LINK WAS FOUND

So people started investigating his claims

Following Dr. Wakefield's study, here's what other more rigorous studies found

**1999**

a study of **500 CHILDREN**  
no connection was found

**2001**

a study of **10,000 CHILDREN**  
still found no connection

**2002**

a study from Denmark of **537,000 CHILDREN**  
found no connection

a study from Finland of **535,000 CHILDREN**  
once again found no connection

**2012**

A review of 27 cohort studies, 17 case control studies, 6 self-controlled case series studies, 5 time series trials, 2 ecological studies, 1 case cross-over trial covering over **14,700,000 CHILDREN**

**2005**

A review of 31 studies covering more than **10,000,000 CHILDREN**  
Also found no connection

**2004**

Lancet released a statement **REFUTING** the original findings

**NO LINK TO AUTISM WAS FOUND IN ANY CASE, IN ALL OF THE STUDIES.**

“ They had conducted invasive investigations on the children without obtaining the necessary ethical clearances... picked and chose data that suited their case; **THEY FALSIFIED FACTS.** ”

## VACCINE VILIFICATION SURVIVES



**1/4** U.S. parents believe some vaccines **cause autism** in healthy children



There have been 0 credible studies linking vaccines to autism

**1.8%** of parents opt out of vaccines for **religious or philosophical reasons**

Recently an anti-vaccine religious community has seen measles outbreaks

Although declared eradicated in 2000...



France reported a massive measles outbreak with nearly 15,000 cases in 2011

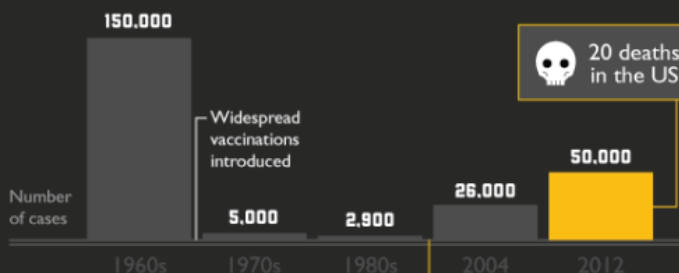


The U.K. reported more than 2,000 measles cases in 2012

Before widespread vaccinations of babies



In the United States, whooping cough shot up in 2012 **TO NEARLY 50,000 CASES**



a new study concluded that



**VACCINE REFUSALS** were largely to blame for a 2010 outbreak of whooping cough in California

## COMMON VACCINE MYTHS

Vaccines are ridden with **toxic chemicals** that can harm children



Thimerosal, the chemical being referenced, does contain mercury. However, thimerosal has been removed from scheduled vaccines and only resides in the seasonal flu vaccine.



The decision to not vaccinate my child **only affects my child**

Un-vaccinated children who contract a disease can infect infants yet to be inoculated, the small percentage of people whose vaccines did not take, and people with compromised immune systems.

Receiving too many vaccines at once can **override a baby's immune system**



Baby's immune systems are strong enough to defend from the day to day viruses and bacteria with which they come in contact; they can also handle the vaccines. Remember, vaccines use deactivated viruses in their ingredients.

Drug companies **just do it to make profits**

According to the WHO, estimated 2013 global revenues for all vaccines is around \$24 billion, which only accounts for approximately 2 - 3% of the total pharmaceuticals market.



## VACCINES WORK!

Positive effects of vaccines



Helped eradicate Smallpox



Save about 8 million lives every year



Significantly reduce disease in the world



New and underutilized vaccines could avert nearly 4 million deaths of children under the age 5 by 2015