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

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

There have been 0 credible studies linking vaccines to autism

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 1980 **2.6 MILLION DEATHS** from measles

in 2000 **562,400 DEATHS** 72% of babies vaccinated

in 2012 **122,000 DEATHS** 84% of babies vaccinated

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

20 deaths in the US

150,000

Number of cases

Widespread vaccinations introduced

5,000

2,900

26,000

50,000

1960s 1970s 1980s 2004 2012

Dr. Wakefield's paper published

COMMON VACCINE MYTHS

MYTHS THAT STILL SCARE PARENTS

Vaccines are ridden with toxic chemicals that can harm children

Thimersol, the chemical being referenced, does contain mercury. However, thimersol 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

SOURCES
bit.ly/vaccine_fraud
bit.ly/vaccine_outbreak
bit.ly/vaccine_preventable
bit.ly/vaccine_facts
bit.ly/vaccine_lancet
bit.ly/vaccine_profit
bit.ly/vaccine_deniers
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