

WHY VACCINATE?

Prof

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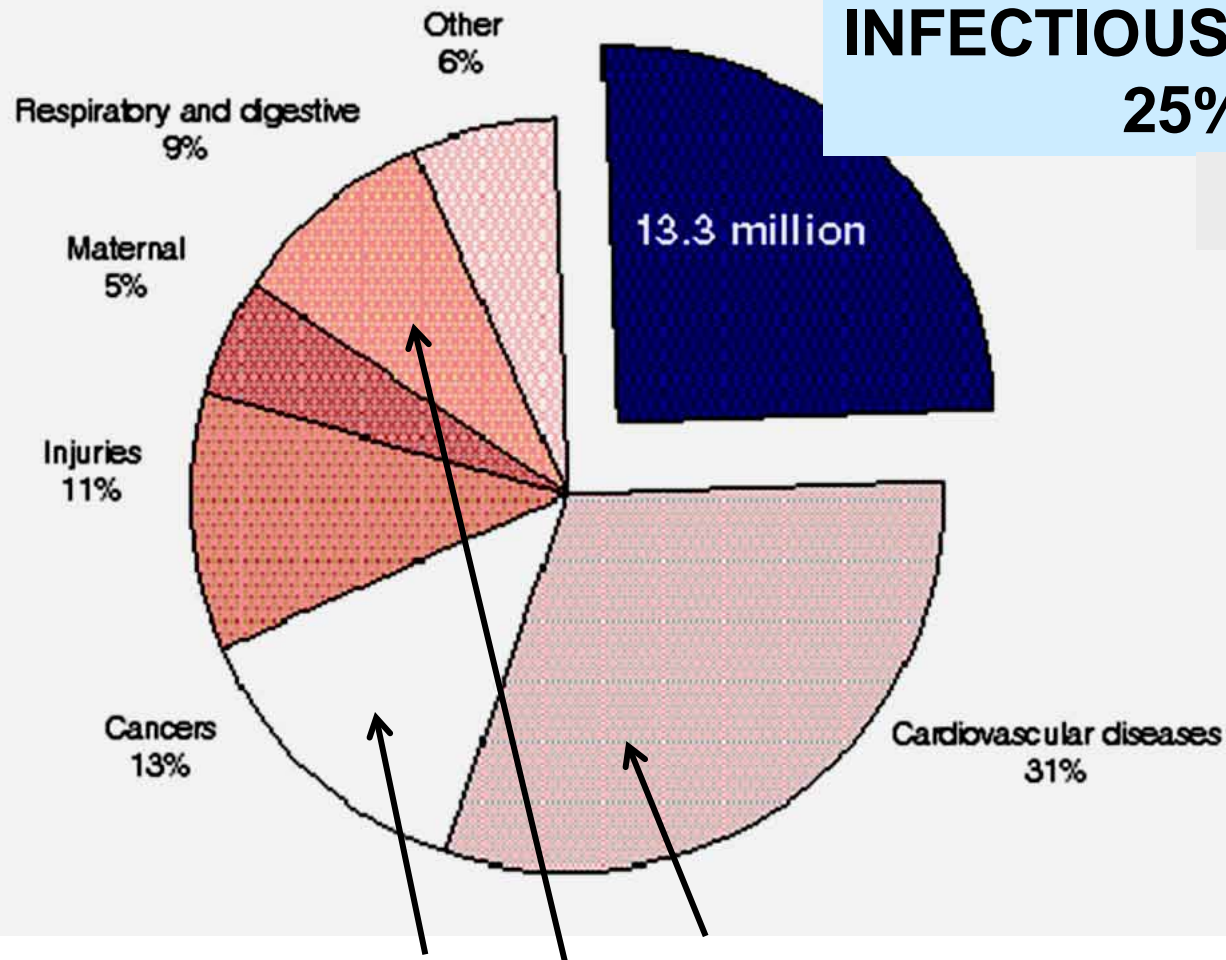
Vaccines give
your immune
system the
intell about the
bad guys.
Immune system
wins (you live)

Your immune system remembers the intell



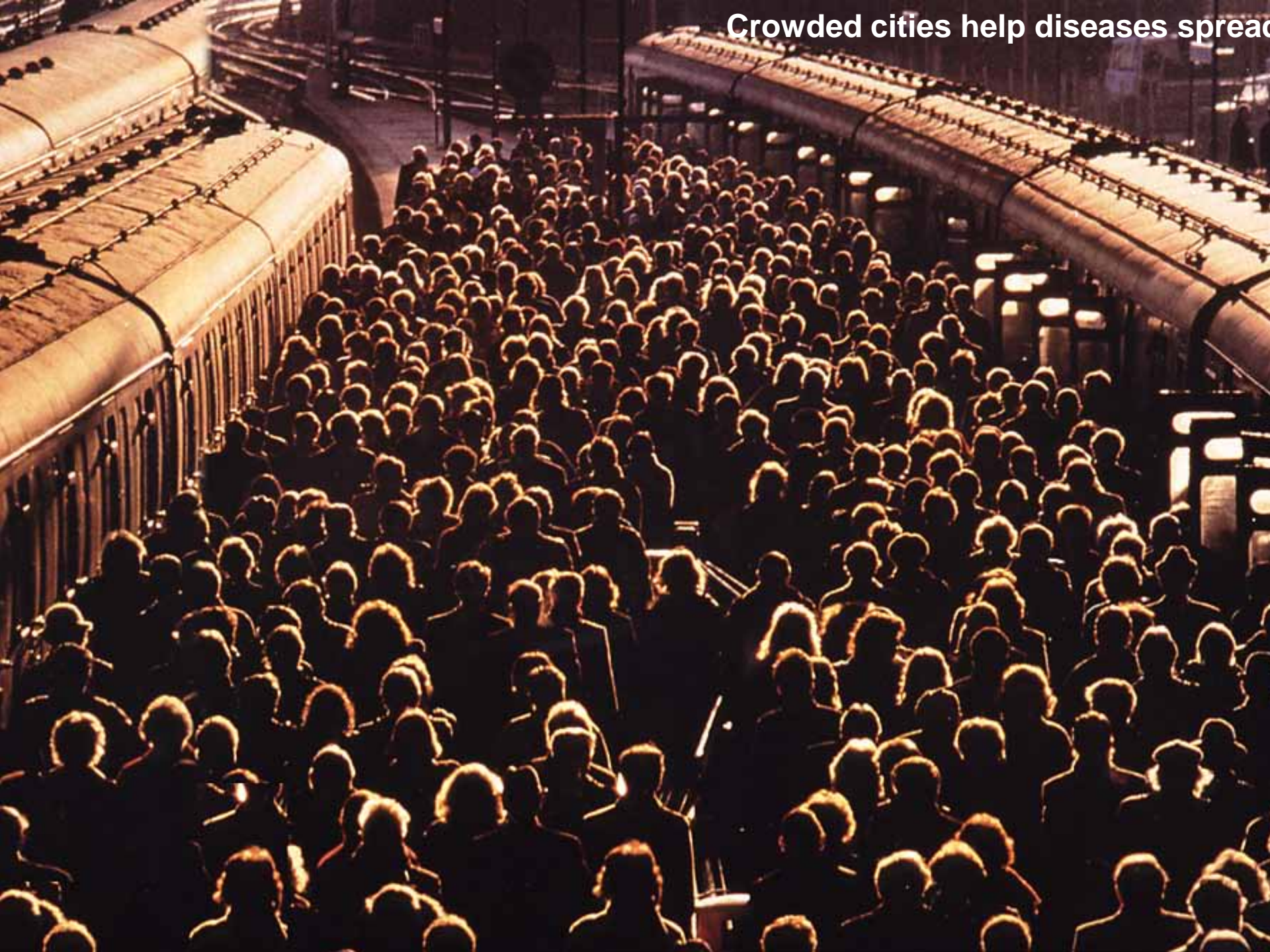
Leading causes of death

53.9 million from all causes, worldwide, 1998



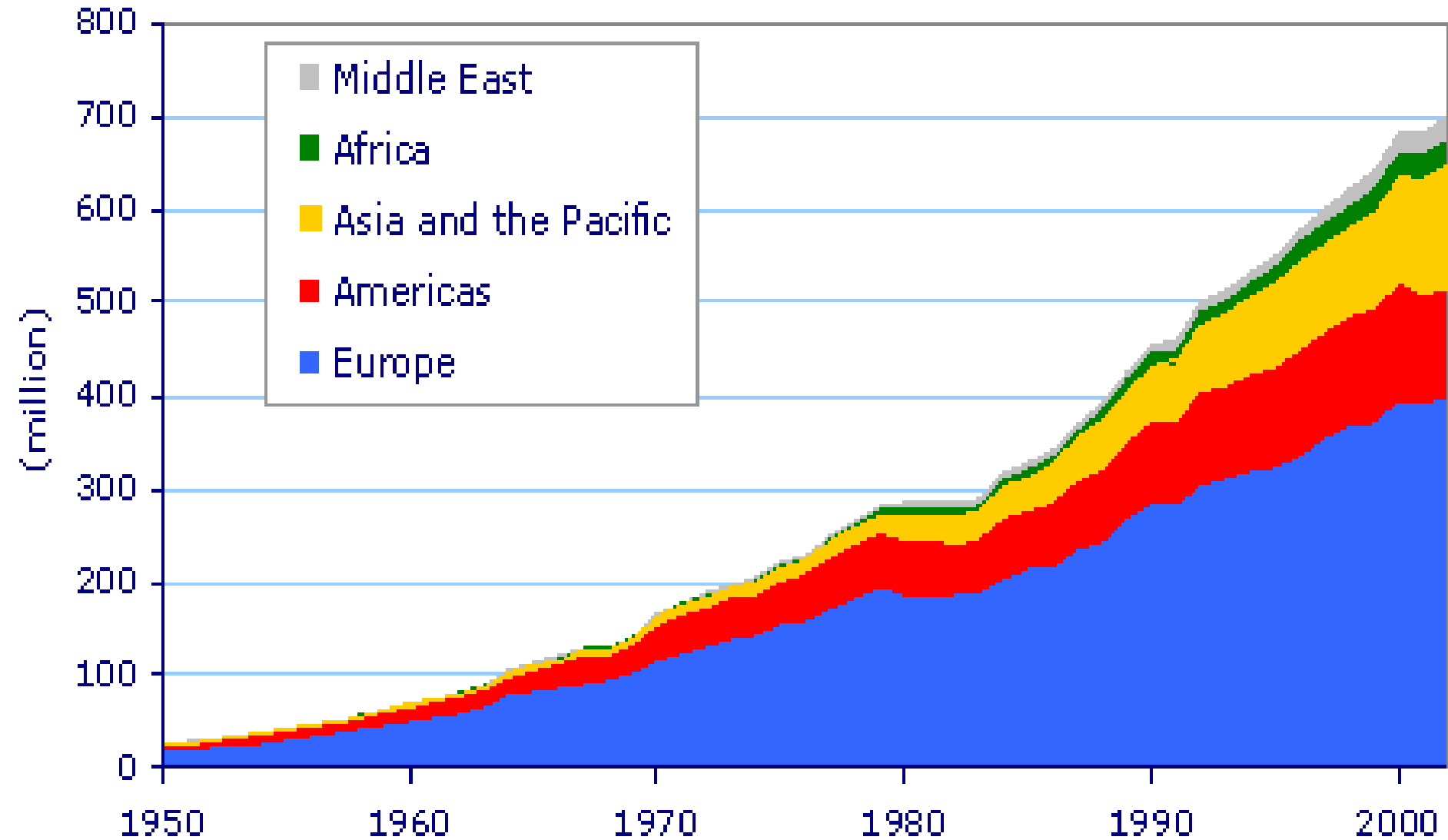
Many of these also caused by infectious disease
eg. Cervical cancer

Crowded cities help diseases spread





International Tourist Arrivals, 1950-2005*



**Air travel now allows disease to be spread globally and quickly.
SARS spread to 30 countries in a few months: 8,000 cases, 774 deaths**

SMALL POX OUTBREAK !

.....NOT CONTAINED !

1972 outbreak in Yugoslavia

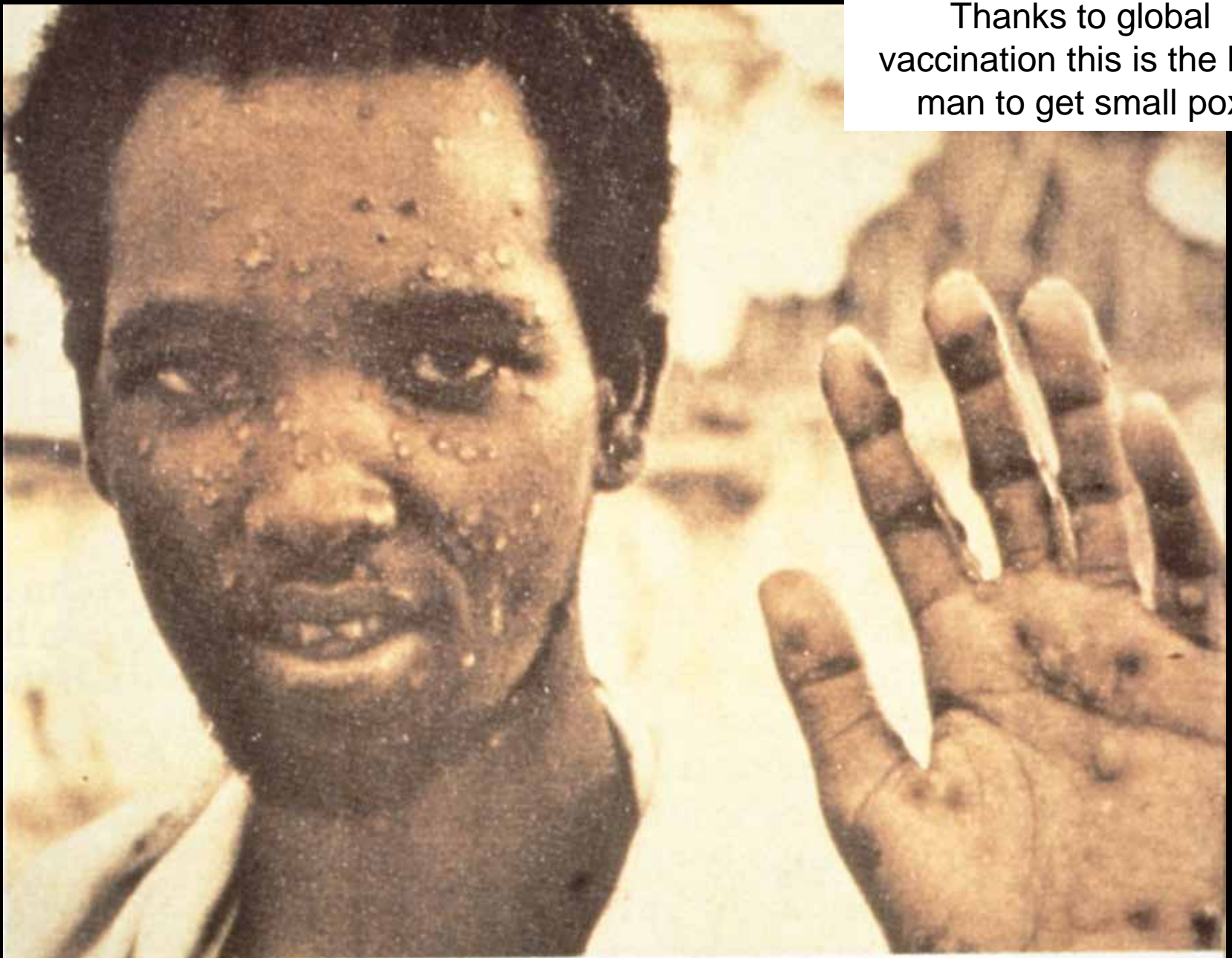
175 cases, 35 dead.

Infected people travelling all over the country.

THE APPROPRIATE RESPONSE !

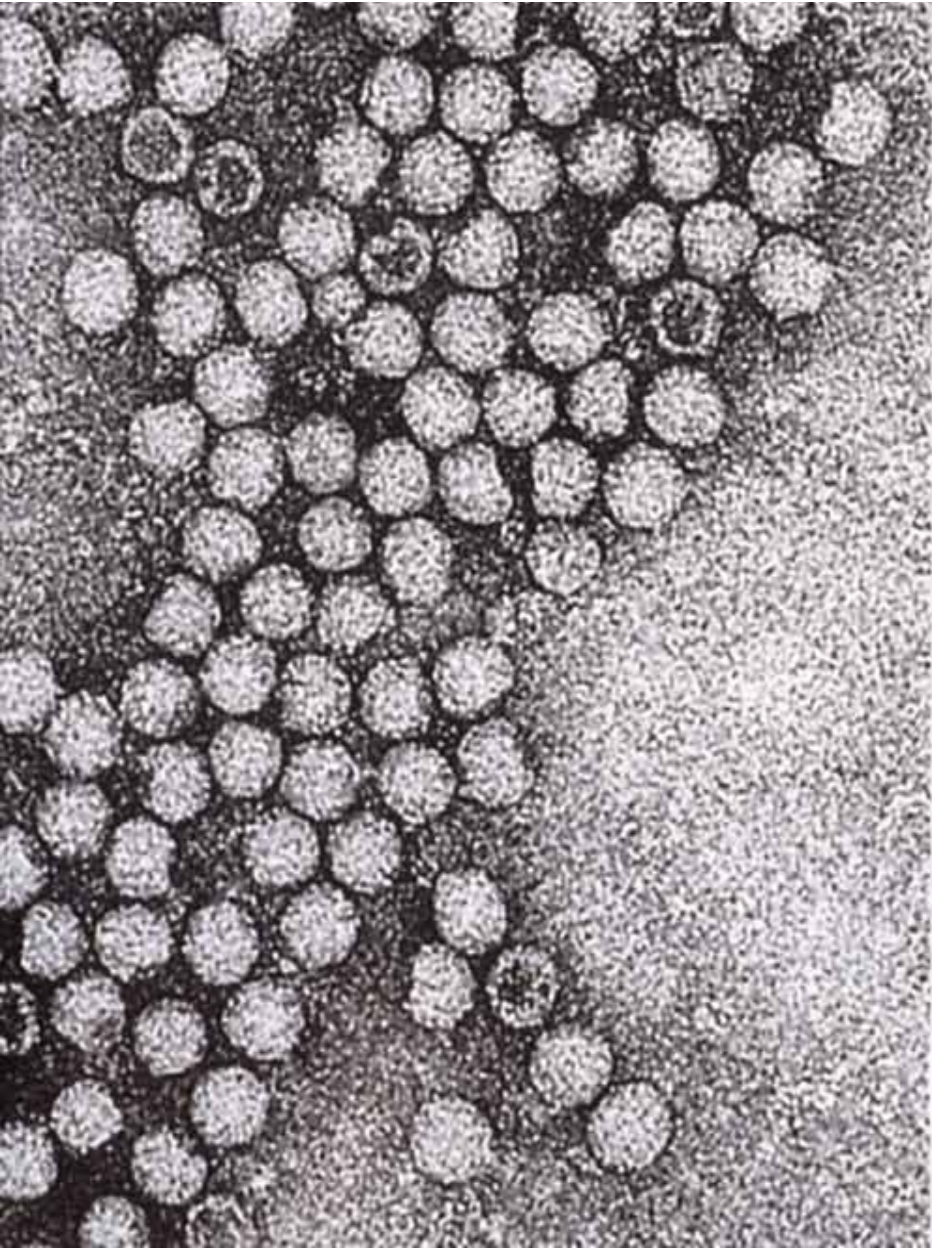
- Yugoslavia closed its borders.
- Forced vaccination of 19 million people.
- Forced quarantine of 10,000 people for 2 weeks or more.

Thanks to global
vaccination this is the last
man to get small pox



**Figure 4. The last recorded case of endemic smallpox (Ali Maow
Maalin, Somalia, October 1977).**

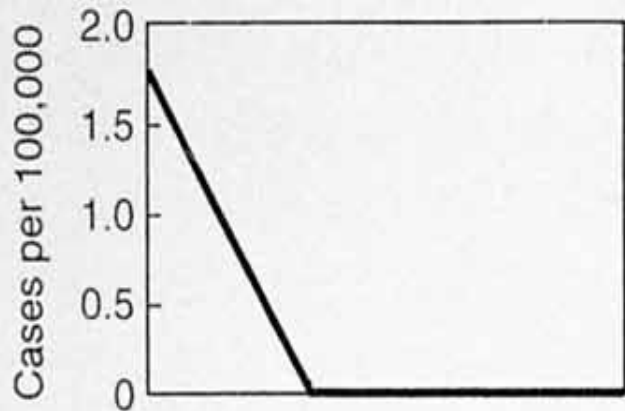
Polio virus used to cripple millions thanks to vaccination this disease is nearly gone from the world



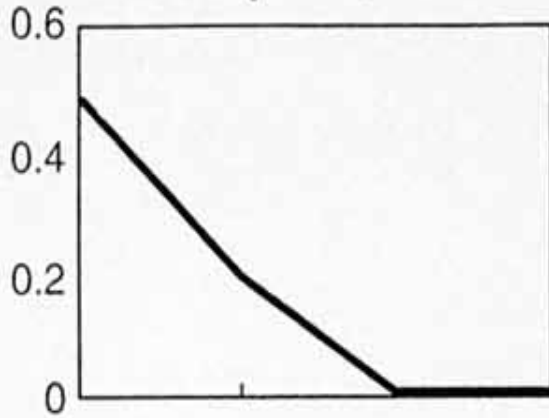
VACCINE	VACCINE SIDE EFFECTS	MAJOR EFFECTS OF DISEASE
DIPHTHERIA	<ul style="list-style-type: none"> • 1 in 10 inflammation or fever. 	1 in 15 die
TETANUS	<ul style="list-style-type: none"> • Occasionally booster gives swelling for a few days 	3 in 100 die
PERTUSSIS		1 in 200 <6m die
MEASLES	<ul style="list-style-type: none"> • 1 in 10 discomfort, local inflammation or fever. 	1/15 pneumonia, 1/1000 encephalitis, 4/10,000 brain damage, 1/10,000 die
MUMPS	<ul style="list-style-type: none"> • 1 in 20 swollen glands stiff neck or joint pains. 	1/200 encephalitis, some sterility deafness
RUBELLA	<ul style="list-style-type: none"> • 1 in 20 rash or fever. 	90% of infections during pregnancy result in major birth defects (eg deaf blind heart)

Wherever you look vaccination has a major impact on disease incidence

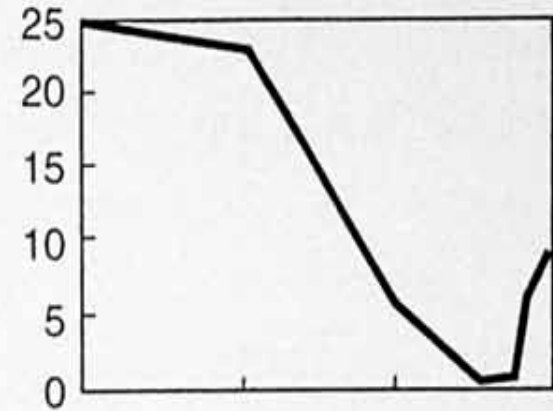
Poliomyelitis



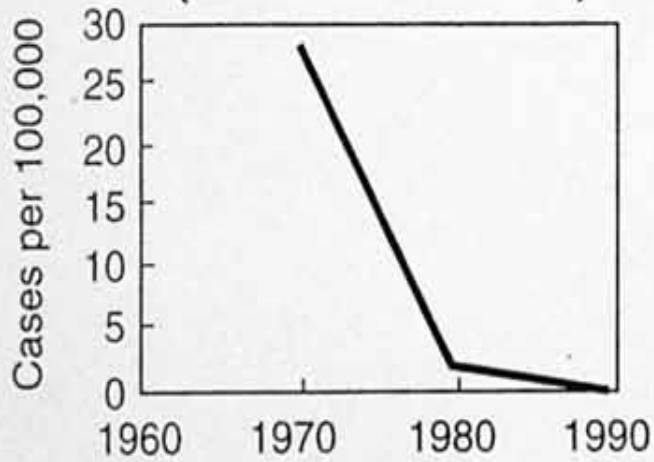
Diphtheria



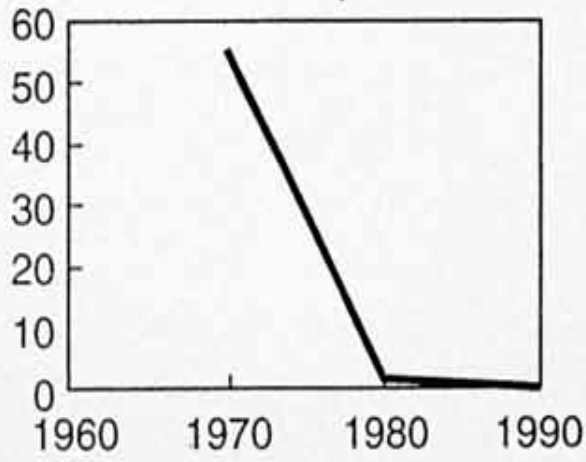
Measles



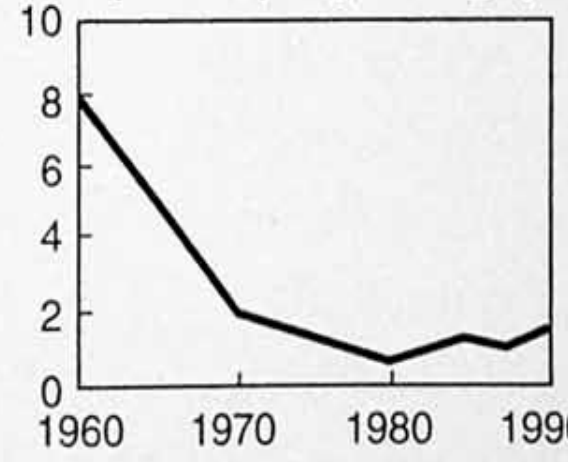
**Rubella
(German Measles)**



Mumps

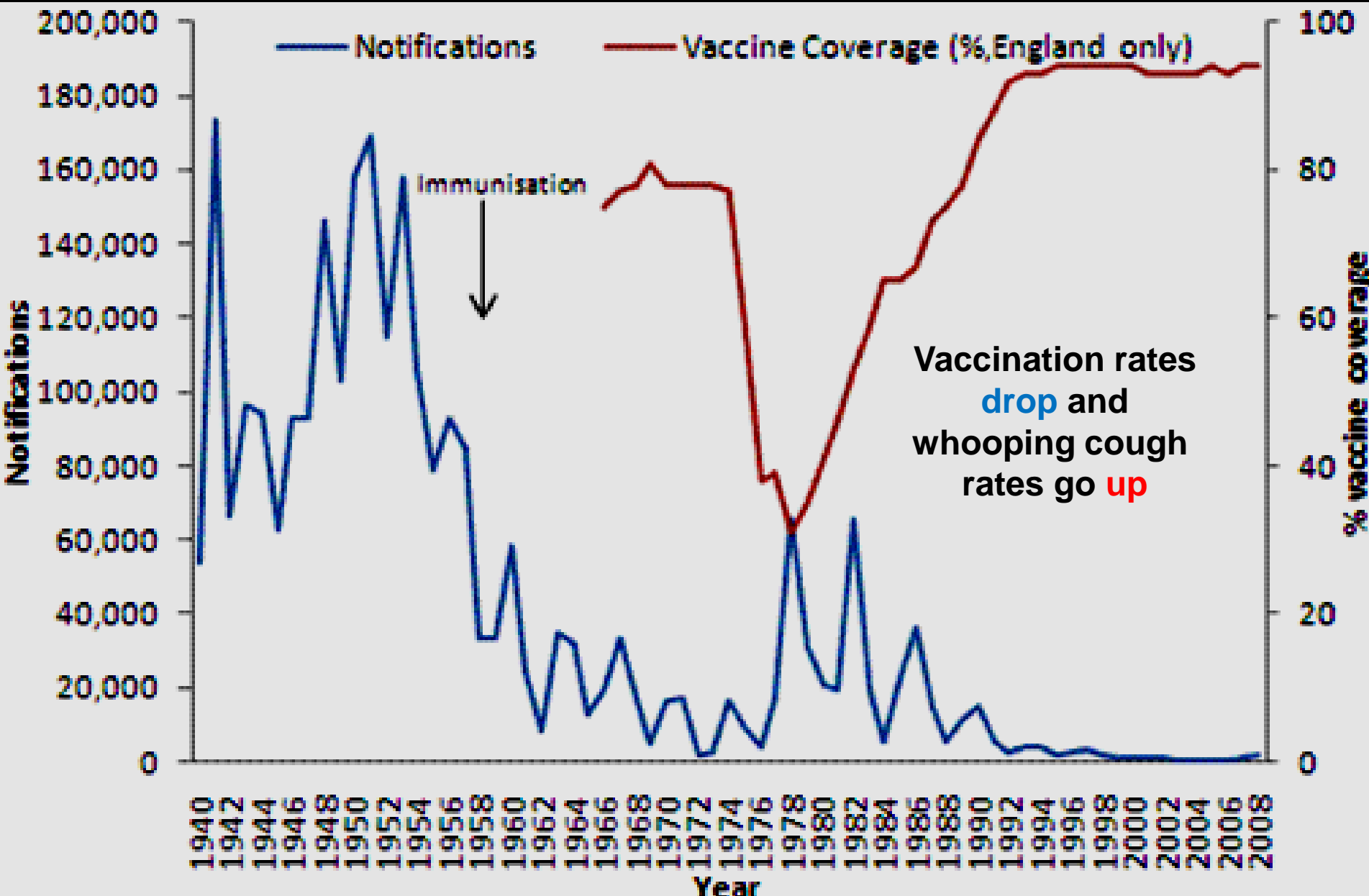


**Pertussis
(Whooping Cough)**

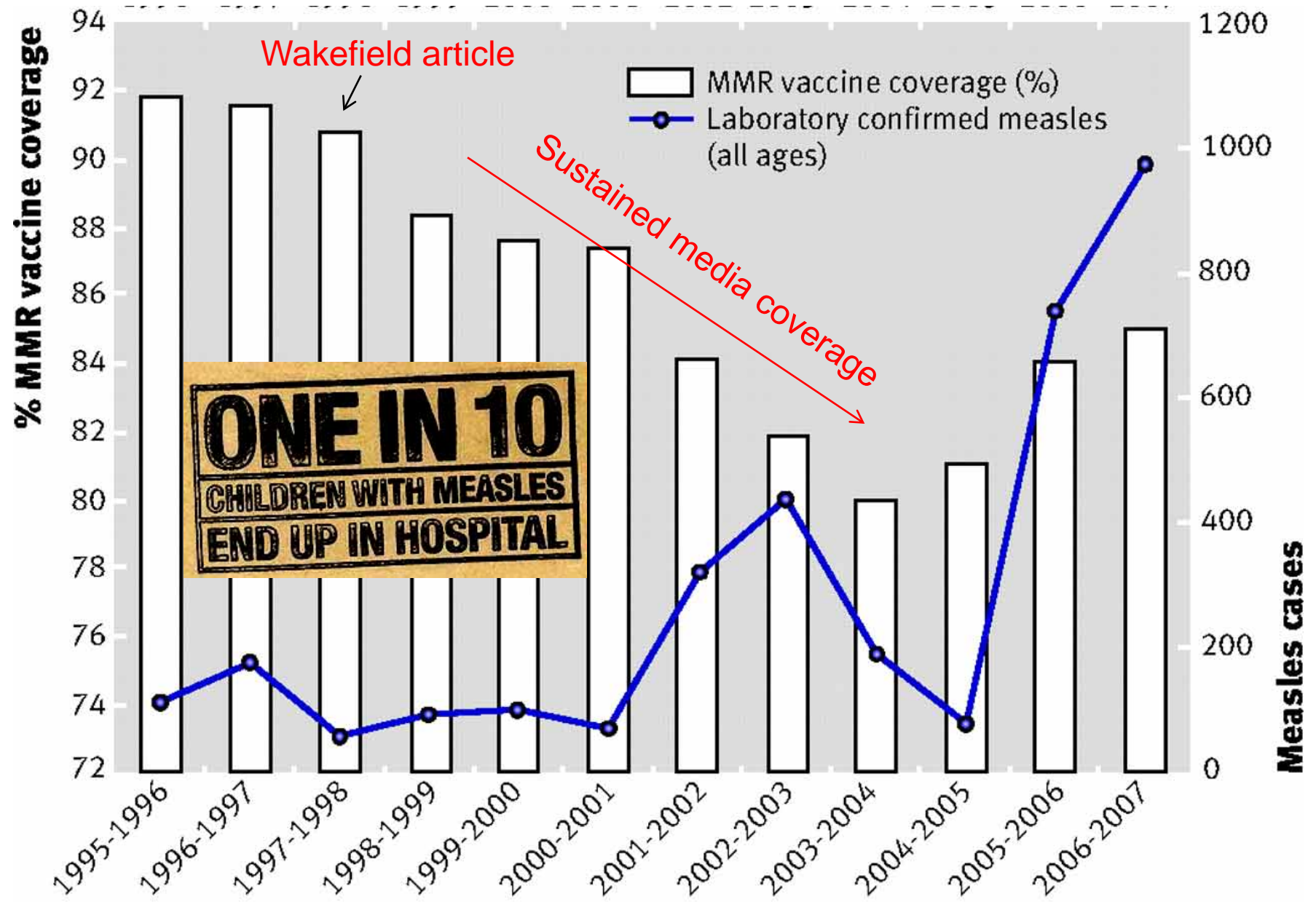


Incidence of vaccine preventable infectious diseases in the US. From NY Academy of Sciences page 13, *Excellence in the future of Health Care, Public Health and Biomedical Science* (1994).

Whooping cough notifications and vaccine coverage, England and Wales, 1940-2008 (Health Projection Agency UK)



As MMR vaccine coverage drops measles cases rise



THE LANCET 1998

Ileal-lymphoid-nodular hyperplasia, non-specific colitis, and pervasive developmental disorder in children

A J Wakefield, S H Murch, A Anthony, J Linnell, J M Casson, M Malik, M Berelowitz, A P Dhillon, M A Thomson, P Harvey, A Valentine, S Davies, J A Walker-Smith

A study of 12 children

9 children claimed to have developed autism within 2 weeks of MMR vaccination

RETRACTED



Wakefield has been struck off the medical register

- 4 counts of dishonesty - money, research & statements.
- 9 counts of mistreating developmentally challenged children: causing invasive "high-risk" research to be carried out without ethical approval and against their best clinical interests;
- 3 rulings said that he caused children to undergo lumbar punctures without clinical reason;
- 3 rulings said he had breached his employment contract at the hospital's medical school, which forbade him from involvement in patient care.

**General Medical Council; Determination on Serious Professional Misconduct (SPM) and sanction: 2010.
Re: Dr Andrew Jeremy WAKEFIELD.**

THE DATA WAS MADE UP

- 3 of 9 children reported with regressive autism did not have autism diagnosis at all. Only 1 child clearly had regressive autism.
- All 12 children were NOT "previously normal" as claimed, 5 had pre-existing developmental concerns.
- The period between vaccination and autism published in the paper did not match Hospital records.
- In 9 cases histopathology results were retrospectively changed.
- 3 children were excluded from the study as the clinical history failed support the hypothesis.

THE MONEY TRIAL ; Brian Deer (Sunday Times)

JABS; solicitor Richard Barr pays Wakefield £150 /h plus £50,000 to find a link between vaccination and autism to help in law suits.

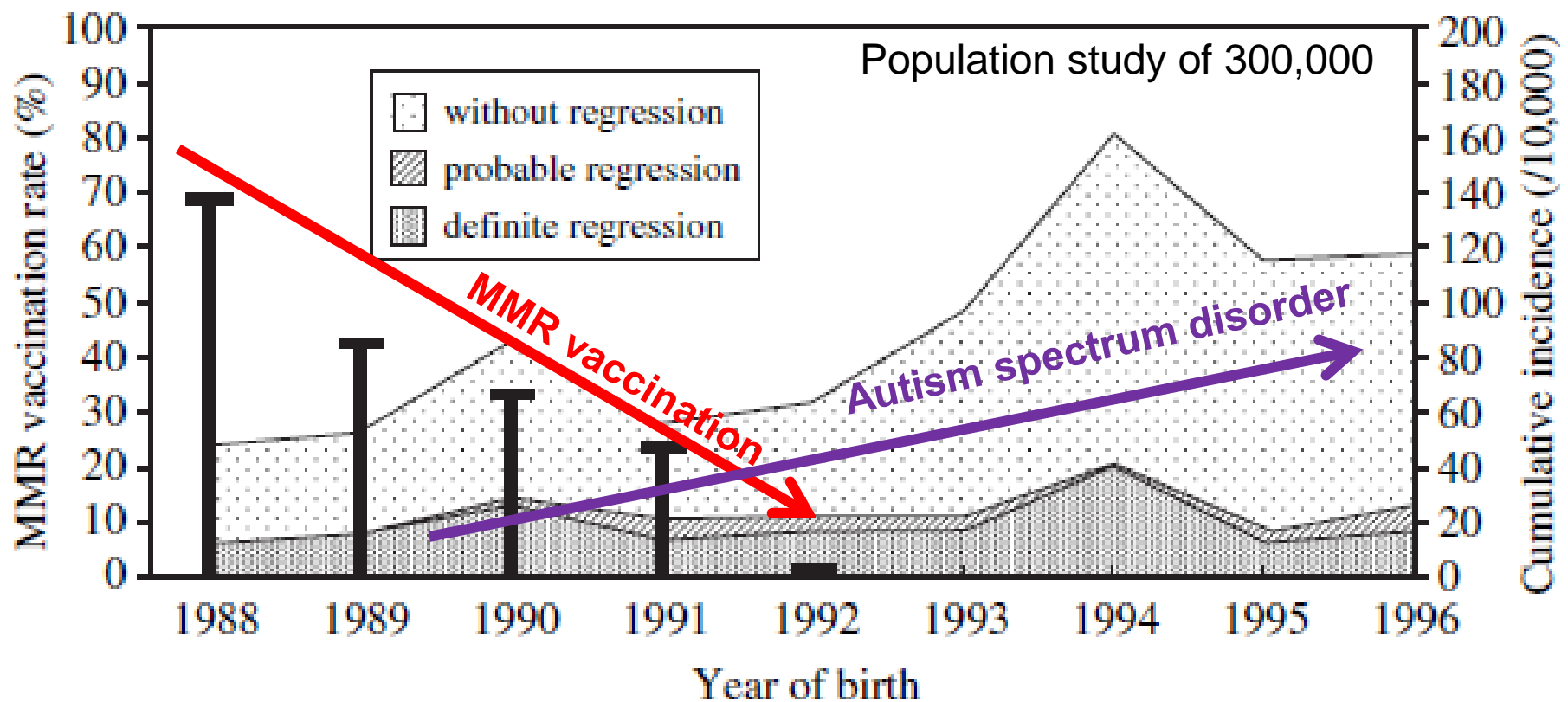
Wakefield receives £435,643 to support law suit.

Wakefield patents single shot measles vaccine claiming it to be safer than MMR.

Unigenetics (Wakefield is director) awarded £800,000 by Legal Aid to perform tests

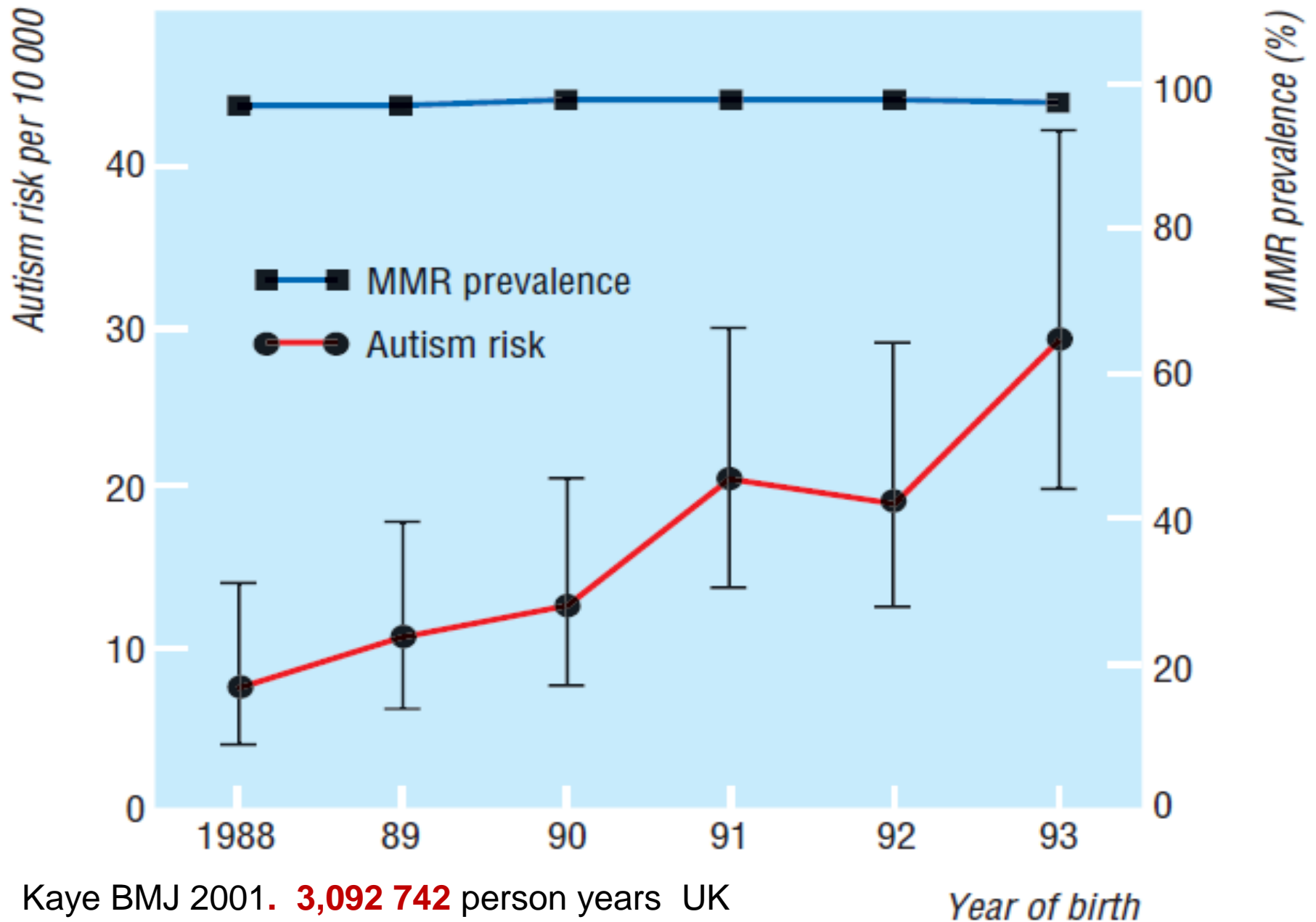
Carmel Healthcare “autistic enterocolitis” diagnostic – predicted revenue £ 28m

Due to litigation Japan stopped MMR use, but autism rates still increased at the same rate as elsewhere



No effect of MMR withdrawal on the incidence of autism: a total population study. Honda et al., J Child Psychology & Psychiatry 46:6 (2005), pp 572–579

MMR vaccination rates remained the same but autism still rose



The New England Journal of Medicine

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A POPULATION-BASED STUDY OF MEASLES, MUMPS, AND RUBELLA VACCINATION AND AUTISM

KREESTEN MELDGAARD MADSEN, M.D., ANDERS HVIID, M.Sc., MOGENS VESTERGAARD, M.D., DIANA SCHENDEL, Ph.D.,
JAN WOHLFAHRT, M.Sc., POUL THORSEN, M.D., JØRN OLSEN, M.D., AND MAD S MELBYE, M.D.

A study of 537,303 children

Conclusions This study provides strong evidence against the hypothesis that MMR vaccination causes autism. (N Engl J Med 2002;347:1477-82.)

See also NCIRS Fact Sheet, MMR vaccine 2009.

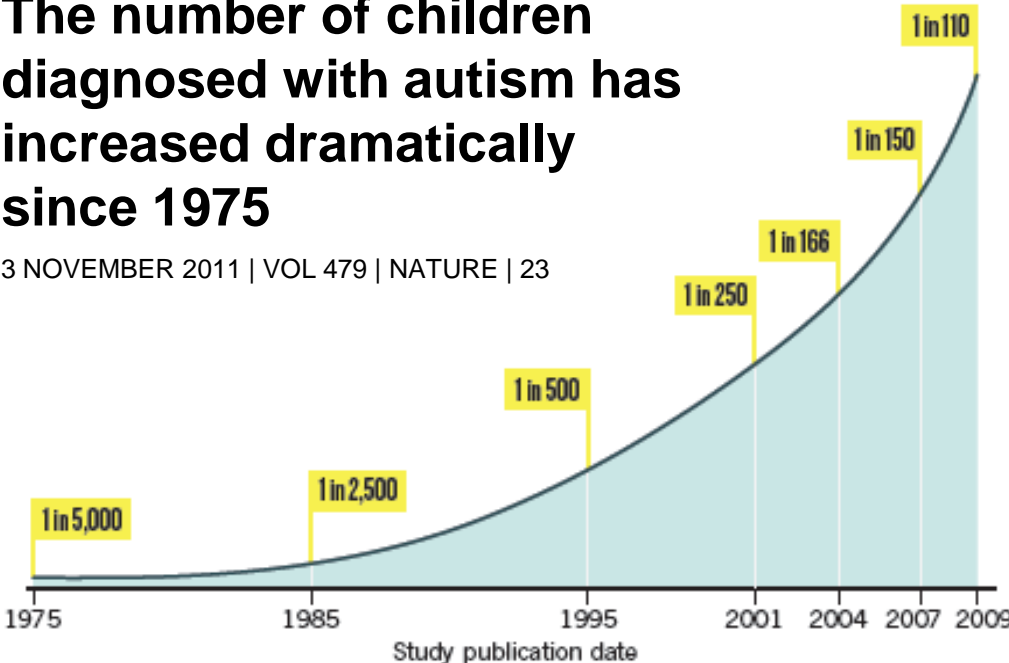
http://www.mumsnet.com/Talk/in_the_news/970786-Andrew-Wakefield-Struck-off/AllOnOnePage

[cyberseraphim](#) Mon 24-May-10 10:48:12

As the parent of an autistic child, I really resent the time and money wasted disproving what was obvious nonsense in the first place ! Why can money not be spent **helping** autistic children learn and develop? We should stick to importing crazy soap opera plot lines from the US not crazy theories about vaccinations.

The number of children diagnosed with autism has increased dramatically since 1975

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Autism spectrum disorder

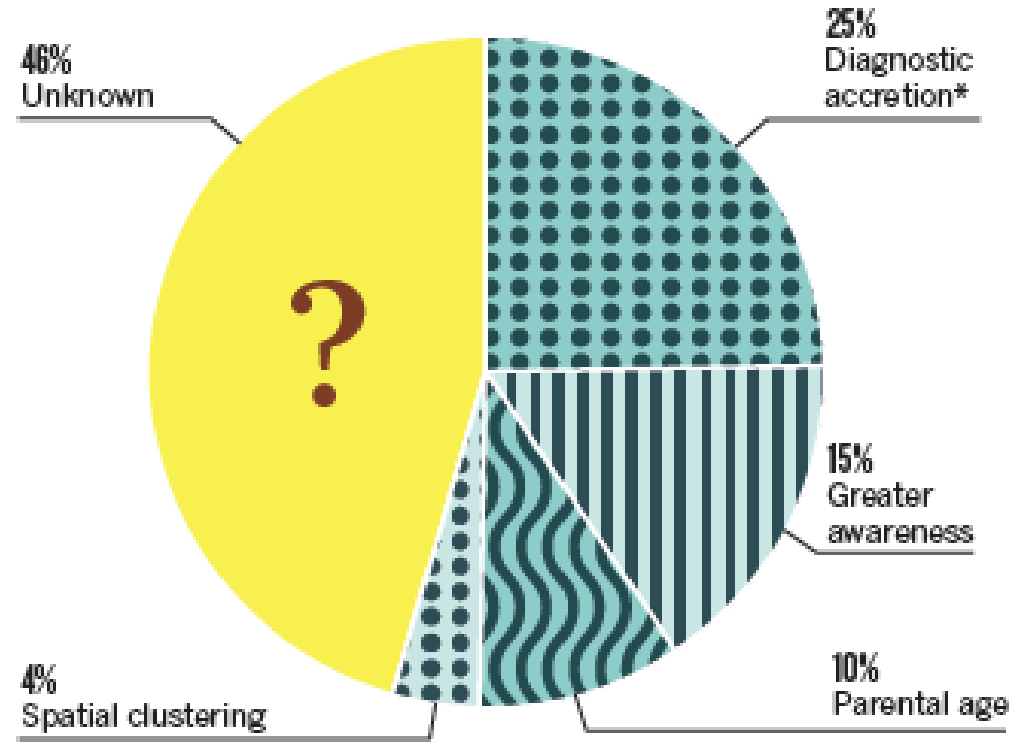
- Autistic disorder
- Asperger's syndrome
- Childhood disintegrative disorder
- Rett syndrome
- Pervasive Developmental Disorder not Otherwise Specified.

There is a strong genetic component in autism. 5-10 genes, possibly more involved

ncbi; 571 scientific peer reviewed publications for autism & vaccines (*vast majority do not show a link*)

ncbi; 18,872 papers on autism

1 paper does not represent the truth



Childhood immunisation

World Vision



unicef

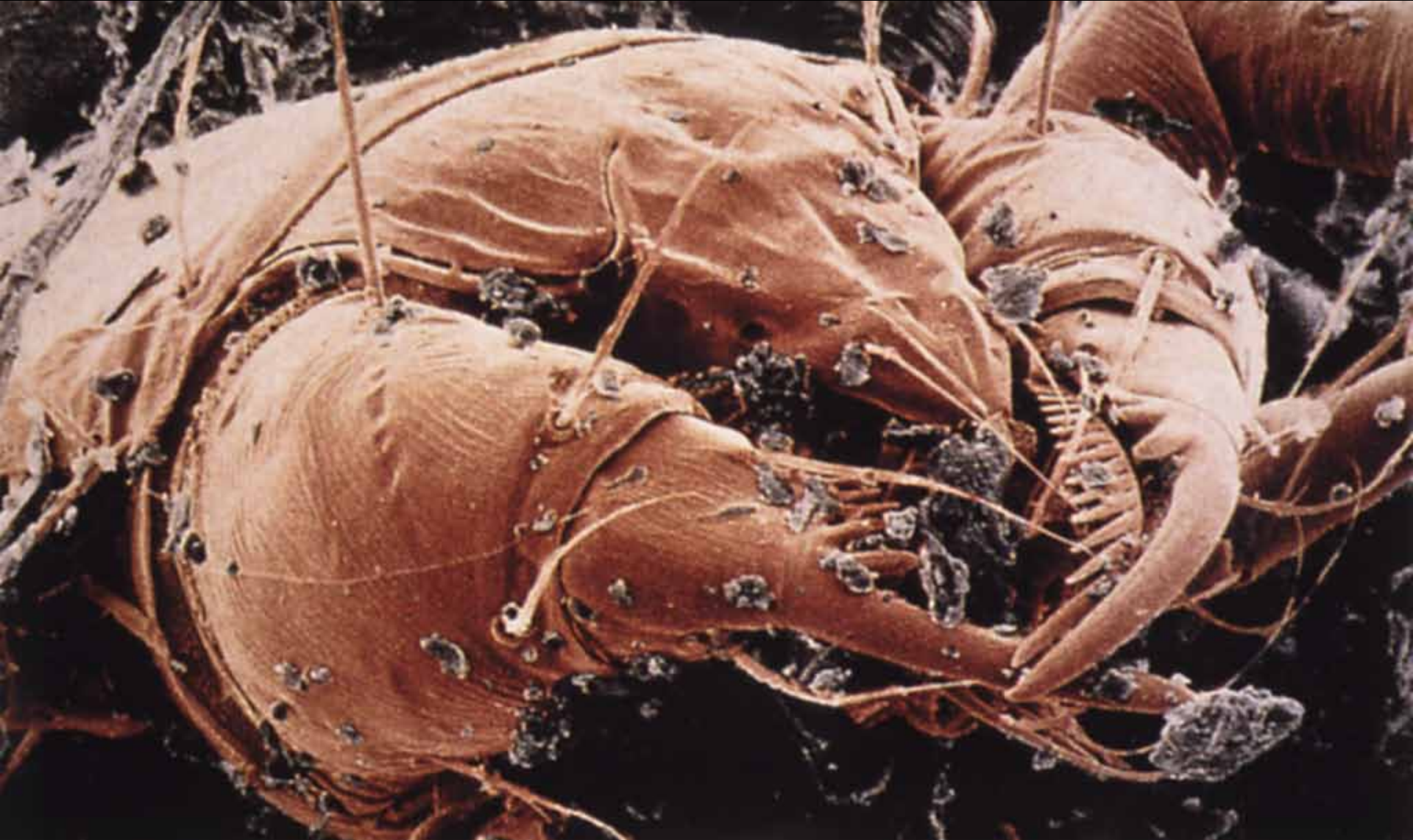
Charity Gifts
for disease protection

We have
vaccine products
for snake bites

Please leave
snakes alone.
You hassle them
they bite you.
Most people
who die tried to
kill the snake.



We have vaccines against house dust mite allergy



We desperately need a vaccine for HIV

Adults and children estimated to be living with HIV as of end 2005



Total: 40.3 (36.7 – 45.3) million

We desperately need a vaccine for malaria



CEREBRAL MALARIA

We hope to be able to make vaccines against cancer

