

THE STATE OF VACCINE CONFIDENCE

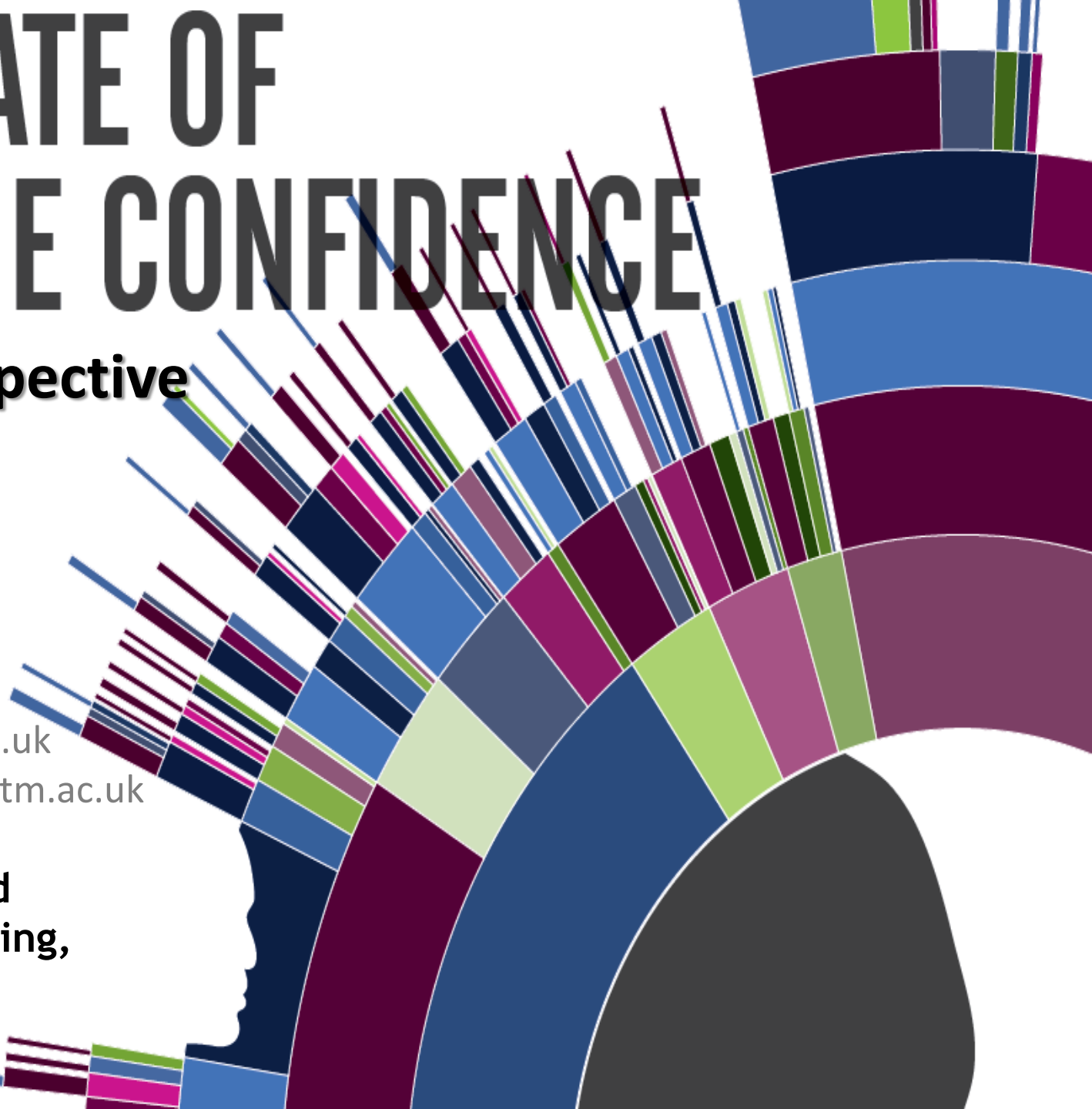
A Global Perspective

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HPV prevention and
control board meeting,
Antwerp

27-28 June 2016



The Vaccine Confidence Project

Studying confidence in the product, provider and policy-maker

Vaccine



System



Sexual & Reproductive health interventions



Team lead - Heidi Larson
Co-lead - Pauline Paterson
Communication - Jay Dowle

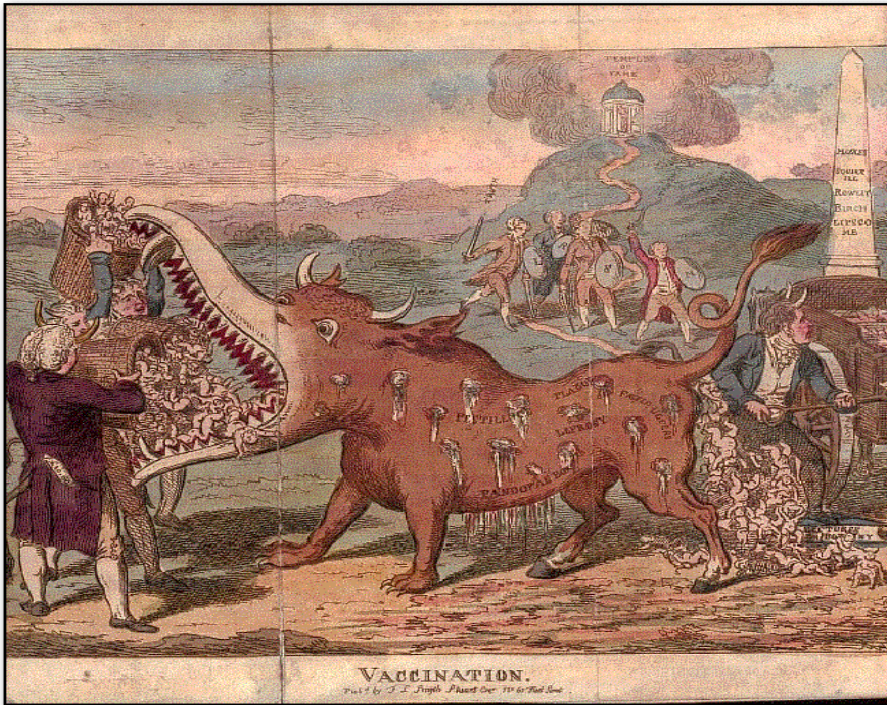


*The history of public questioning
of vaccines is as old as vaccination,
but the global spread of public
concerns is quickly changing*

The Vaccination Monster
(London, 1808)



The NEW ENGLAND JOURNAL of MEDICINE



Perspect
JANUARY 13

The Age-Old Struggle against the Antivaccinationists

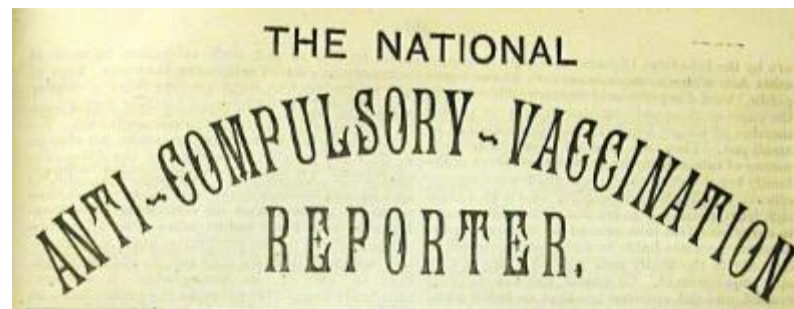
Gregory A. Poland, M.D., and Robert M. Jacobson, M.D.

Since the introduction of the first vaccine, there has been opposition to vaccination. In the 19th century, despite clear evidence of benefit, routine

breaks of infectious disease were being developed and vaccine schedule, and

Reasons for opposing vaccination in the 19th century

- » Vaccination is not safe
- » Religious and philosophical concerns
- » Vaccination is ineffective
- » Competition with variolation
- » Principles not well understood
- » Resistance to compulsory vaccination



200 years later:

NBC NEWS

U.S. WORLD LOCAL POLITICS **HEALTH** TECH SCIENCE POP CULTURE BUSINESS INVESTIGATIONS SPORTS MORE

HEALTH

MEASLES OUTBREAK
FEB 7 2015, 3:09 PM ET

Think the U.S Has a Measles Problem? Just Look at Europe

by MAGGIE FOX and TRACY CONNOR

The case count for the measles outbreak linked to Disneyland is steadily ticking upwards. Health officials in more than a dozen states are tracking down thousands of people to

It sounds bad, but European States with envy.

To them, America's current comparatively good.

Last year, Europe had 3 measles cases. Italy alone cases. And that's an im

Measles Outbreak Traced to Disneyland is Declared Over

by NBC NEWS

California health authorities on Friday declared an end to a large measles outbreak that started at Disneyland and triggered a national debate about vaccinations.

HEALTH

MEASLES OUTBREAK
APR 17 2015, 3:18 PM ET

Bomb attack at polio vaccination centre kills 15 in Pakistani city of Quetta

Twelve of the dead were police officers, officials said, with a further 24 wounded in latest attack on disease vaccinators



DAY, JUNE 26, 2016 11:59 PM GMT+8

MALAYSIA WORLD MONEY LIFE SHOWBIZ OPINION SPORTS EAT/DRINK TRAVEL

Measles on the rise in Pahang as public shy away from vaccination



Health INDIA

Is religious animosity coupled with ignorance of vaccines bringing diphtheria back to Malappuram?

23,912 out of 342,657 children in Malappuram below the age of five have reportedly not been immunized even once in their lifespan.

Chintha Mary Anil | Haritha John | Thursday, June 23, 2016 - 18:58



Malaysia

Changed Global Environment

- Broader environment of **distrust**
- The public is increasingly **challenging “quality” and “safety”** of commodities
- Stronger **“right to know” environment** - growing civil society demands on access to information
- Issues **travel** and persist: increased and **more rapid communication channels**: Internet, TV, social media

Mainstream media



Denmark



Understanding vaccine hesitancy

Pediatrics

July 2008, VOLUME 122 / ISSUE 1

Protecting Public Trust in Immunization

Louis Z. Cooper, Heidi J. Larson, Samuel L. Katz

Article

Info & Metrics

Comments

Abstract

Public trust in the safety and efficacy of vaccines is one key to immunization programs within the United States and globally.

@ New Decade of Vaccines 5

Addressing the vaccine confidence gap

Heidi J. Larson, Louis Z. Cooper, Juhani Eskola, Samuel L. Katz, Scott Ratzan

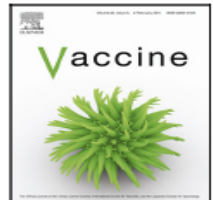
Lancet 2011; 378: 526-35 Vaccines—often lauded as one of the greatest public health interventions—are losing public confidence.



Contents lists available at [ScienceDirect](#)

Vaccine

journal homepage: www.elsevier.com/locate/vaccine



Review

Understanding vaccine hesitancy around vaccines and vaccination from a global perspective: A systematic review of published literature, 2007–2012

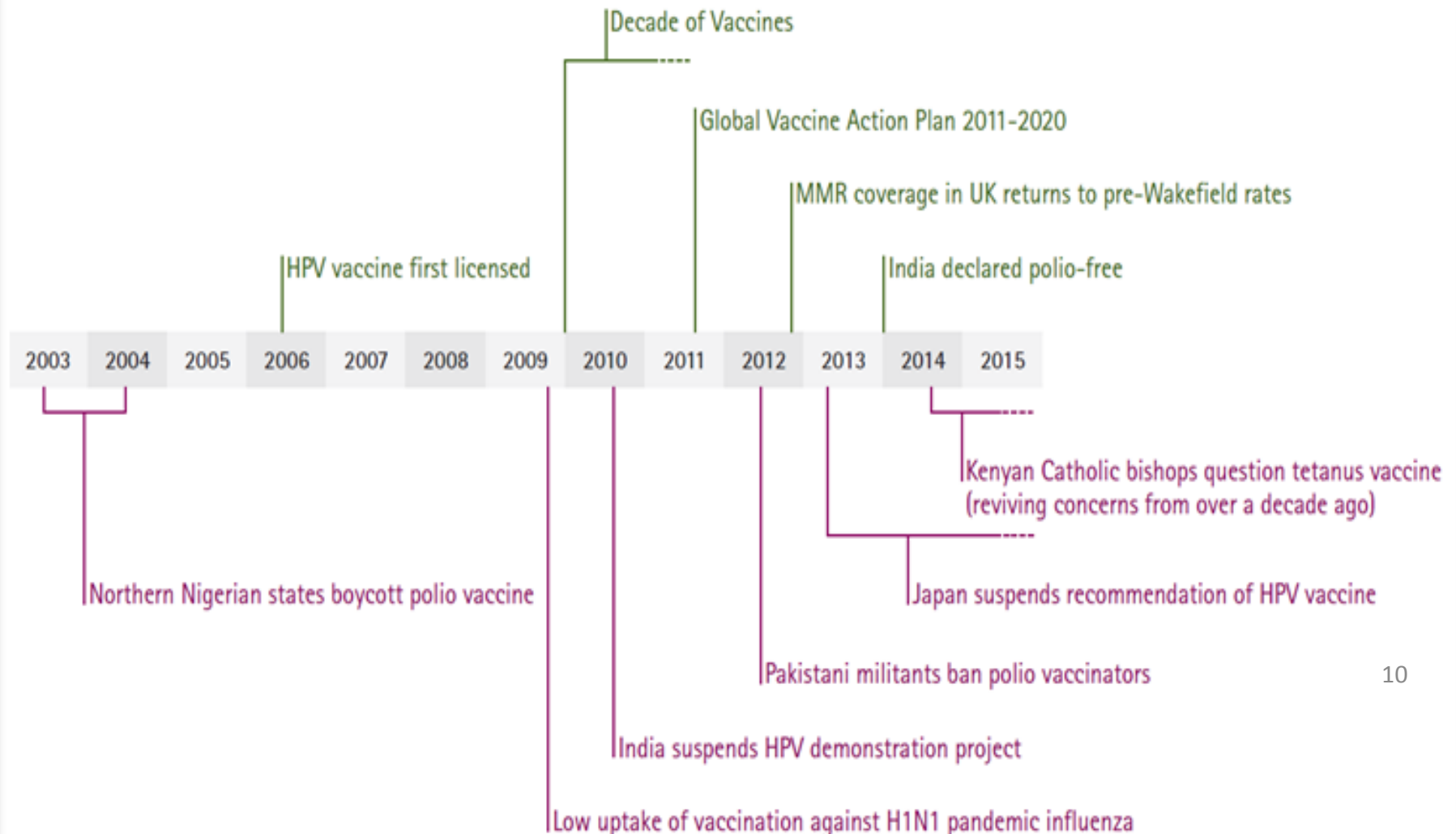
Heidi J. Larson*, Caitlin Jarrett, Elisabeth Eckersberger, David M.D. Smith, Pauline Paterson



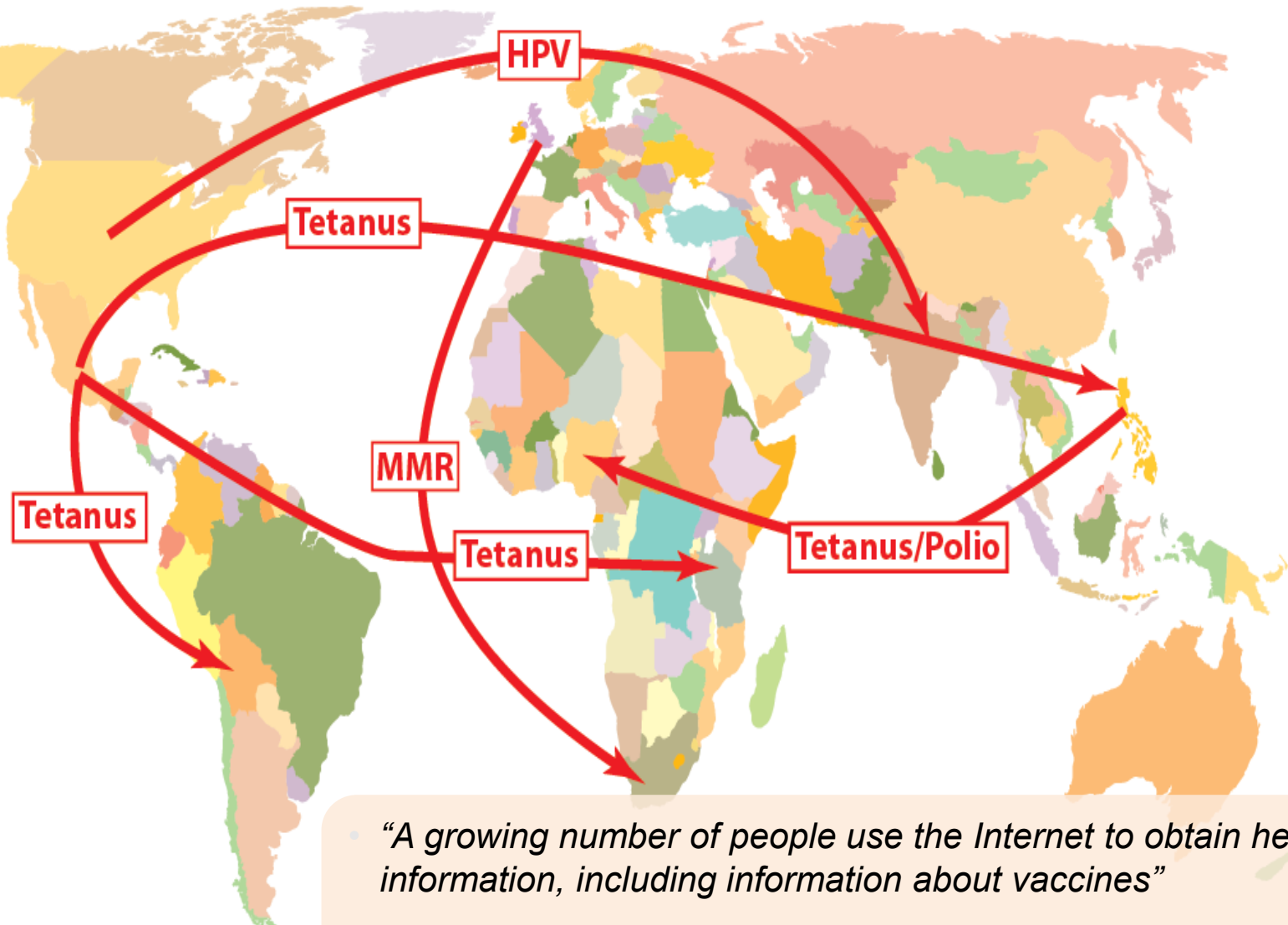
Department of Infectious Disease Epidemiology, London School of Hygiene & Tropical Medicine, Keppel Street, London WC1E 7HT, United Kingdom

Good news, bad news: Importance of vigilance

The State of Vaccine Confidence



Perceptions of vaccine risk travel globally



• “A growing number of people use the Internet to obtain health information, including information about vaccines”

• Betsch C. *Vaccine* 2012; 30: 3723–6

Vaccine confidence: a global overview

- Perceptions of vaccine risks are complex and **context specific**, varying across time, place and vaccines
- Portion of the population that **refuses or delays all or some vaccines**
- No group is entirely hesitant but **pockets of hesitancy can be found in all population groups**
- Not new problem- **increasingly being recognised**

Current issues around vaccine acceptance

- **Safety concerns** due to
 - Fear of adverse events following immunization
 - **Uncertainty** about real vaccine risks
- Less risk tolerance for vaccines **given when healthy**
- Tensions between **individual rights vs societal rights** to health
- Outright non-acceptance of scientific evidence due to **philosophical or religious beliefs**

HPV vaccination concerns are global and varied

TAIPEI TIMES

Home Front Page Taiwan News Business Editorials Sports World

Wed, May 13, 2015

Consumers' Foundation urges HPV vaccines probe

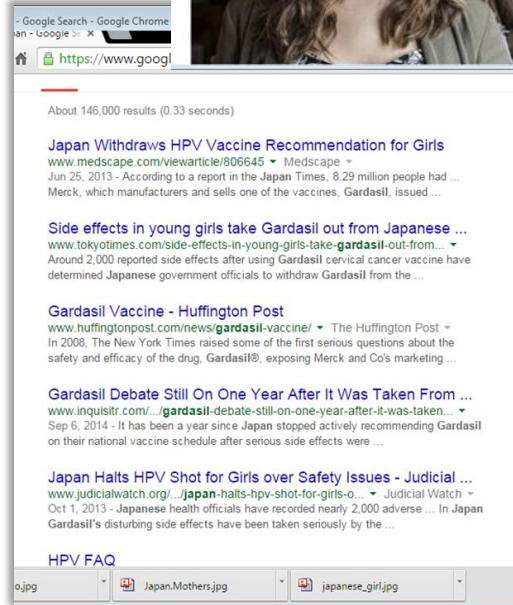
SIDE EFFECTS: HPA official Wu Chien-yuan said clinics have to let people know about possible side effects, but only 100 issues have been reported in Taiwan

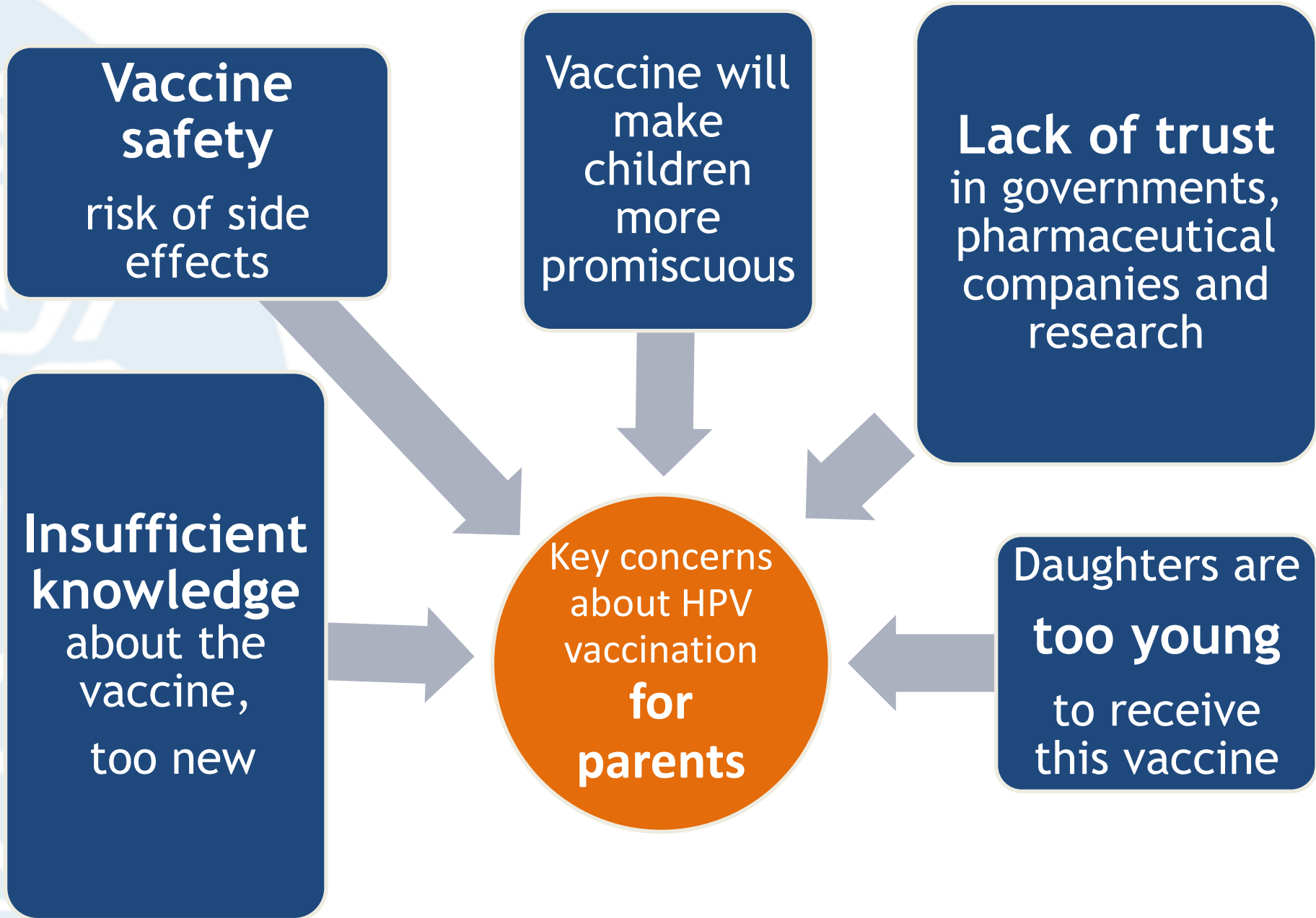
The Consumers' Foundation yesterday urged the government to launch an investigation into potential risks of the human papillomavirus (HPV) vaccine, which the foundation said have led to several cases of severe side effects and even death overseas

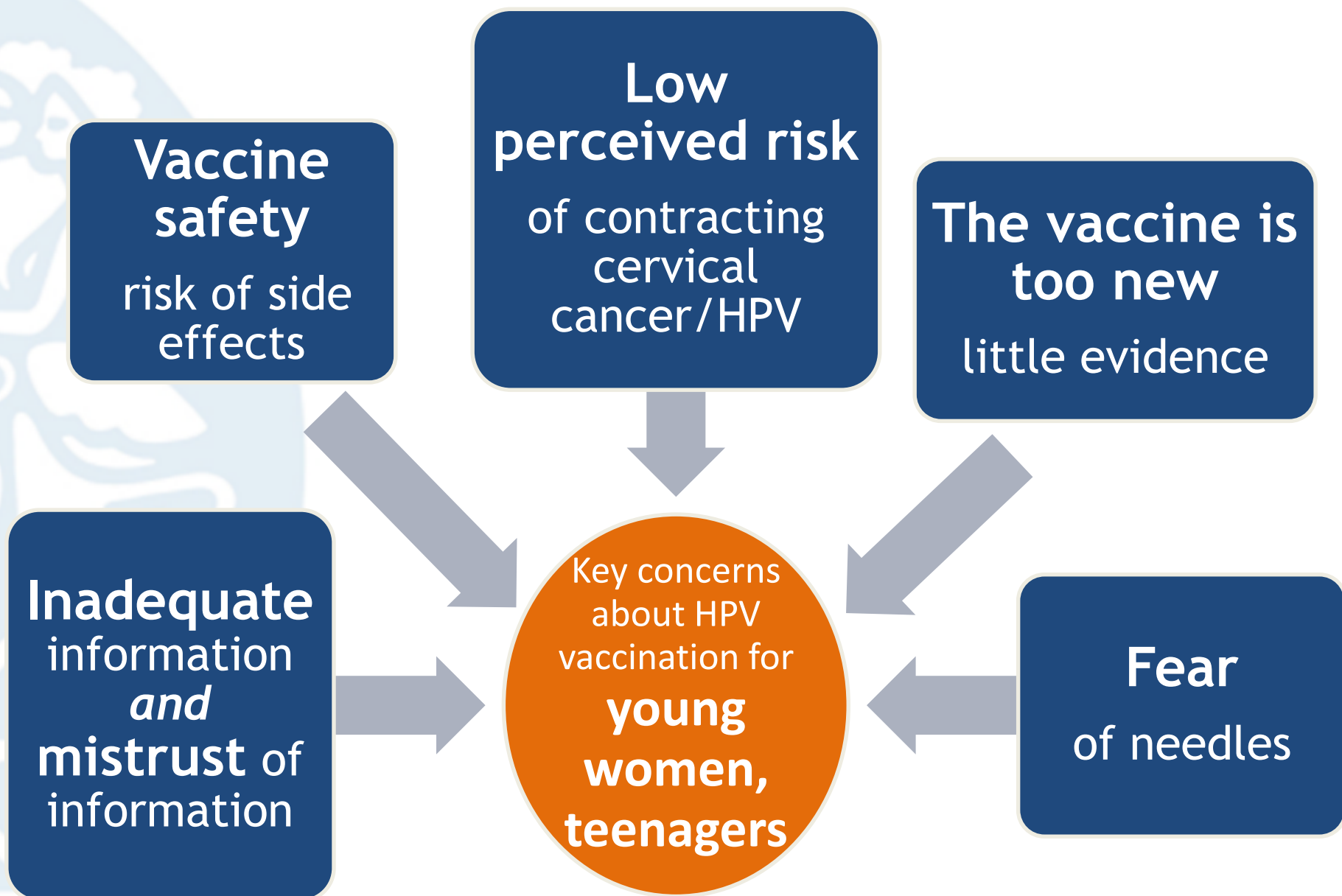


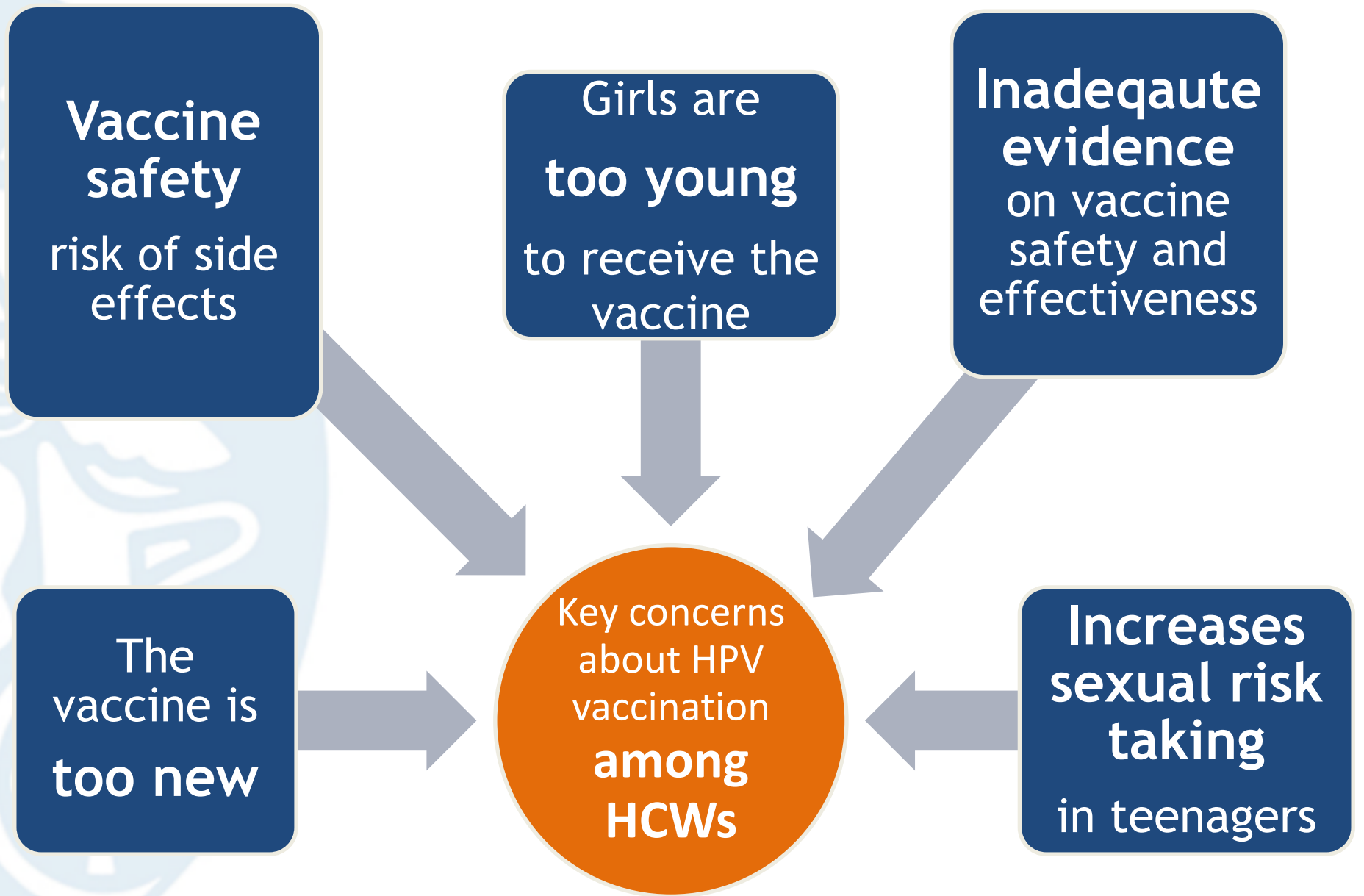
Piger bliver syge: I Japan anbefaler de ikke længere HPV-vaccinen


A Danish TV documentary featuring the key Japanese anti-HPV vaccine scientist











AUTHORS
Rose Wilson
Pauline Paterson
Heidi J. Larson

The HPV Vaccination in Japan

Issues and Options

MAY 2014

CSIS | CENTER FOR STRATEGIC &
INTERNATIONAL STUDIES

*A Report of the CSIS Global
Health Policy Center*

HPV Vaccination in Japan

The Continuing Debate and Global Impacts



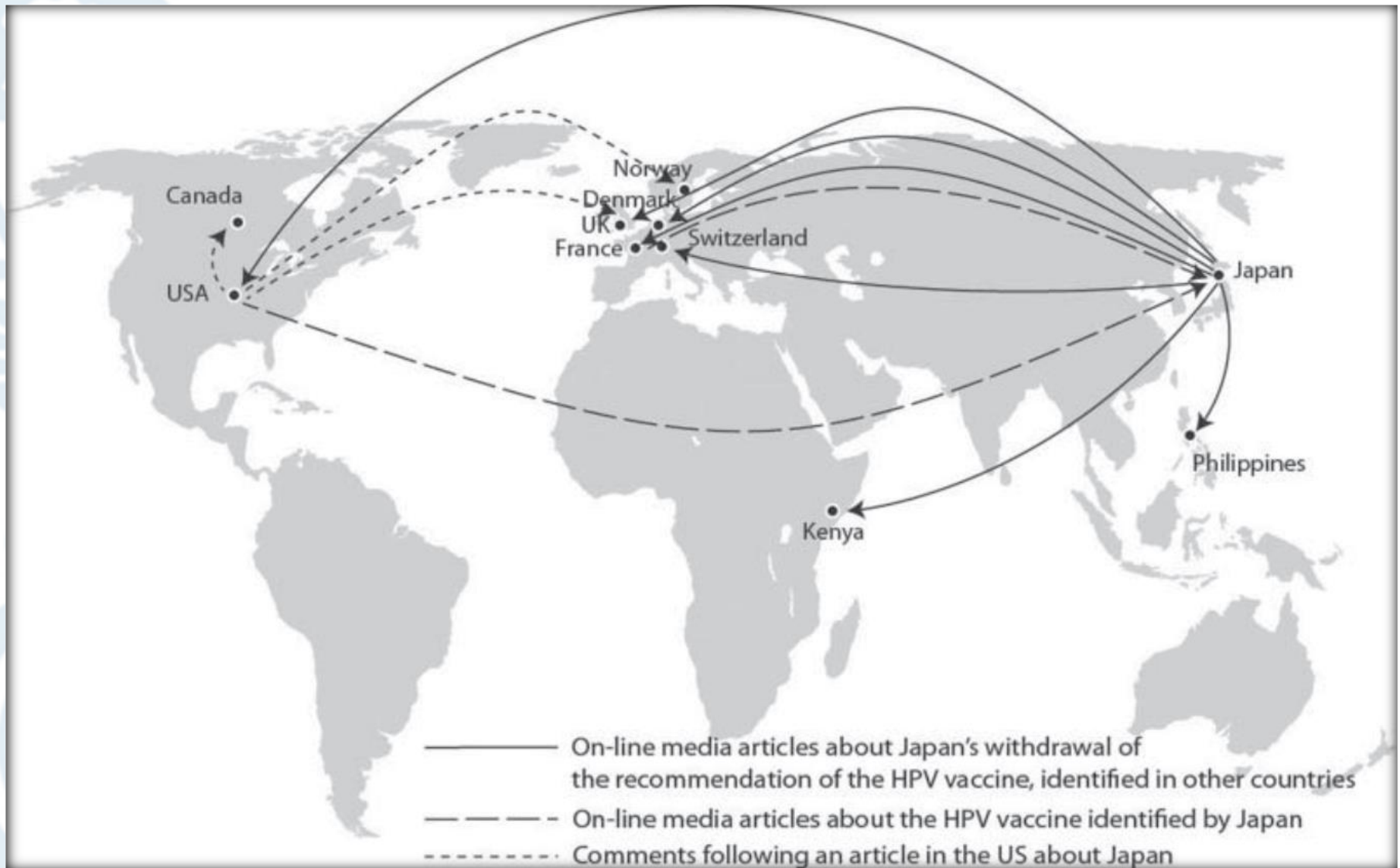
AUTHORS
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William Schulz
Heidi Larson

A Report of the CSIS Global Health Policy Center

APRIL 2015

CSIS | CENTER FOR STRATEGIC &
INTERNATIONAL STUDIES

Global transmission of HPV concerns



Carmen del Bolivar, Colombia

- Municipality north of Colombia - a low resource, rural region with 46% incidence of violence, 41,8% of displaced people, highly catholic
- In May 2014, **15 girls** of a same school presented **adverse reactions of unknown nature** after receiving second doses of HPV vaccination
- These **expanded to more than 600 girls** in the country
- Symptoms included numbness of members, dizziness, nausea, difficulty walking, full body spasms



Public Sentiments

- YouTube videos of girls contorting and fainting fuelled anxieties and expanded **‘contagion’ of adverse events**
- Peaks in cases coincided with **peaks in media coverage** of the adverse reactions
- Public made **direct claims to the president and central government**

Epidemiological investigation

- Central government decision - **epidemiological field investigation** in Carmen de Bolivar
- Findings do no support any direct chemical or pharmacological effect that could explain reactions the girls were experiencing
- Nonetheless, government **classified reactions as 'mass psychogenic reactions'** caused by administration of vaccines
 - *Caused public outrage: perceived as mocking girls*

Government response

- Importance of government **endorsing scientific evidence**
- **Hearings in congress** were held to discuss suspension of HPV vaccination programme
- ... The central government stood by scientific evidence and maintained **full support of the national HPV vaccination programme**

Considerations after the Colombian crisis

- Coverage rates **declined to ~15%**, with reported **spill over effects** to other vaccines
- **Disruptive impact** of psychogenic outbreaks **on vaccine trust**
- Issues of **'gendering' vaccination**, especially in some communities (i.e. religious)
- Issues of **vaccinating in schools**: fuel anxieties
- Similar cases in other countries **all over the world**

“The days when health officials could issue advice, based on the very best medical and scientific data, and expect populations to comply, may be fading.”

Margaret Chan, WHO Director-General
Report to the 126th Executive Board, 2010



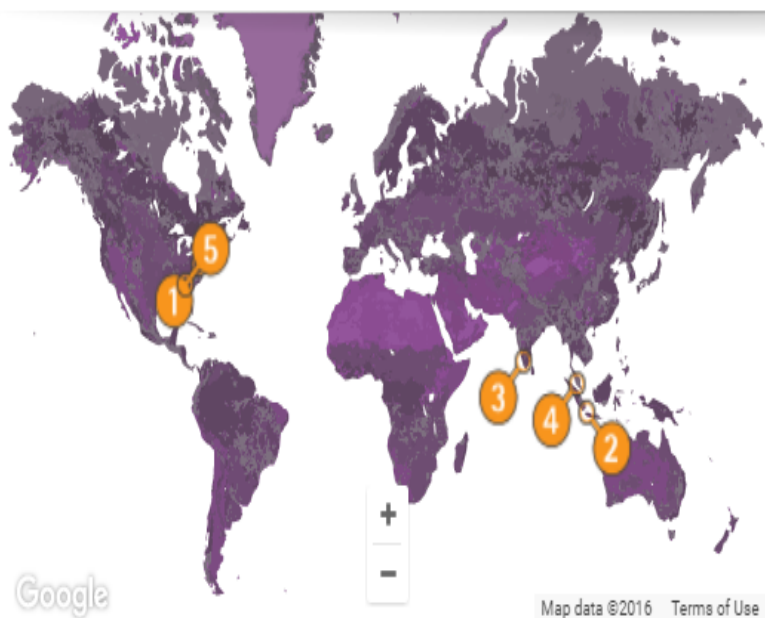
Home

About

Research

Archive

Contact



Latest News

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- 1 USA: The critical public-health benefits of the HPV vaccine
- 2 Indonesia: Govt scrambles to save children from fake vaccines
- 3 India: Is religious animosity coupled with ignorance of vaccines bringing diphtheria back to Malappuram?
- 4 Malaysia: Diphtheria and the anti-vaccine lobby
- 5 USA: Bad news for kids who don't like flu shots

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Vaccine crisis in China — act now to
rebuild confidence

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