Είναι επικίνδυνα τα εμβόλια; Το αντιεμβολιαστικό κίνημα

Σωτήρης Τσιόδρας

Το αντι-εμβολιαστικό κίνημα

- Τα εμβόλια αίτιο παρενεργειών & νόσων π.χ.
  - αυτοάνοσα, νευροψυχιατρικά, επιληψίας, λιποθυμία, SIDS
- Βλάβη από πρόσθετες ουσίες
  - ανοσοενισχυτικά, συντηρητικά κ.α
- Υπερφορτώνουν το ανοσιακό σύστημα

Το αντι-εμβολιαστικό κίνημα

- Εξαφάνιση νοσημάτων -> γιατί εμβόλια;
- Υποχρεωτικός εμβολιασμός & παραβίαση ατομικών ελευθεριών
- Κέρδη εταιρειών, οικονομικά οφέλη γιατρών
- Εναλλακτικές μορφές ιατρικής, διατροφή μπορεί να ενισχύσουν ανοσία χωρίς εμβόλια

Contents lists available at ScienceDirect

EBioMedicine

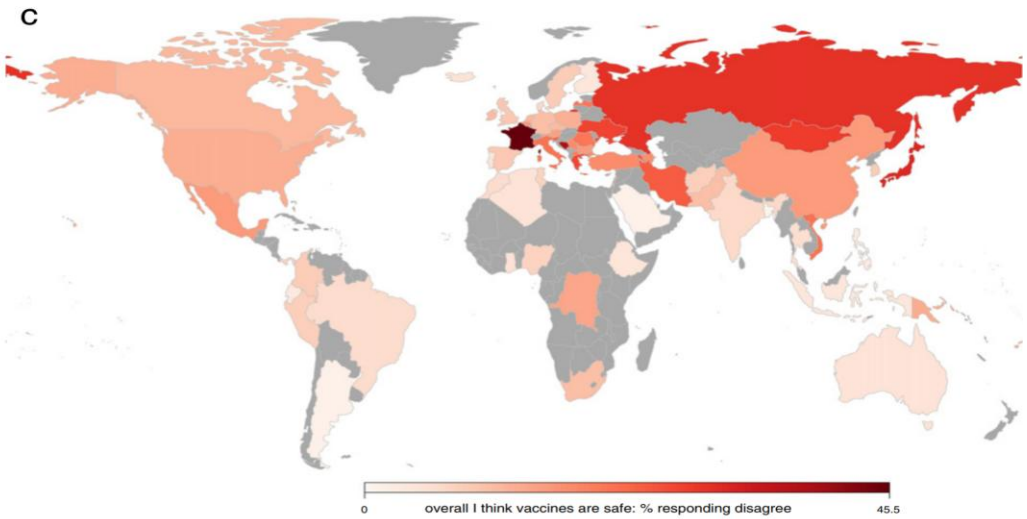
journal homepage: www.ebiomedicine.com

Research Paper

The State of Vaccine Confidence 2016: Global Insights Through a 67-Country Survey

Heidi J. Larson, PhD [a,b,*,1], Alexandre de Figueiredo, MSc [c,1], Zhao Xiahong, BSc [d], William S. Schulz, MSc [a], Pierre Verger, PhD [e,f,g,h], Iain G. Johnston, PhD [i], Alex R. Cook, PhD [d,j], Nick S. Jones, PhD [c]

[a] Department of Epidemiology and Population Health, London School of Hygiene & Tropical Medicine, UK



- **7 of the 10 least confident countries in Europe (Ελλάδα 5η από το τέλος!!!)**
- **France -> 41% disagree that vaccines are safe**
- **Roman catholics, > 65 yrs (+) sentiment**
- **High level of schooloing & access to healthcare service -> lower rates of (+) sentiment**

Αντίληψη κινδύνου

Anecdotal Thinking

The Power of Box "a"

		Outcome	
		Yes	No
Exposure	Yes	a	b
	No	c	d

Offit. Expert Rev Vac 2003;2:89

Εμβόλιο γρίπης & εγκυμοσύνη!! Προστασία & για το μωρό!!!

Folk Numeracy

10,000,000 pregnant women get a shot

→ 6 weeks later

16,684 have a spontaneous abortion

If the shot is a placebo!

Shermer. Sci Amer 2008;Sep;40; Black. Lancet 2009;374:2115

MMR & αυτισμός

- 1998 - Wakefield - case series: 12 παιδιά με IBD & regressive developmental delay
- Υπόθεση: αίτιο το MMR μέσω εντερικής δυσλειτουργίας
- 2004 – 10/13 authors published a formal retraction
- **2010 - Lancet retracts study**
- 2011 – έρευνα του BMJ-> η μελέτη = “an elaborate fraud”
  - Wakefield’s medical license is revoked

MMR & αυτισμός

Early report

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

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

Summary

Background We investigated a consecutive series of children with chronic enterocolitis and regressive developmental disorder.

Methods 12 children (mean age 6 years [range 3–10], 11 boys) were referred to a paediatric gastroenterology unit with a history of normal development followed by loss of acquired skills, including language, together with diarrhoea and abdominal pain. Children underwent gastroenterological, neurological, and developmental assessment and review of developmental records. Ileocolonoscopy and biopsy sampling, magnetic-resonance imaging (MRI), electroencephalography (EEG), and lumbar puncture were done under sedation. Barium follow-through radiography was done where possible. Biochemical, haematological, and immunological profiles were examined.

Findings Onset of behavioural symptoms was associated by the parents, with measles, mumps, and rubella vaccination in eight of the 12 children, with measles infection in one child, and otitis media in another. All 12 children had intestinal abnormalities ranging from lymphoid nodular hyperplasia to aphthoid ulceration. Histology showed patchy chronic inflammation in 11 children and reactive ileal lymphoid hyperplasia in seven, but no granulomas. Behavioural disorders included autism (nine), disintegrative psychosis (one), and possible postviral or vaccinal encephalitis (two). There were no focal neurological abnormalities and MRI and EEG tests were normal. Abnormal laboratory results were significantly raised urinary methylmalonic acid compared with age-matched controls ($p=0.003$), low haemoglobin in four children, and low serum IgA in four children.

Interpretation We identified associated gastrointestinal disease and developmental regression in a group of previously normal children, which was generally associated in time with possible environmental triggers.

Lancet 1998; **351:** 637–41
See Commentary page

Inflammatory Bowel Disease Study Group, University Departments of Medicine and Histopathology (A J Wakefield FRCS, A Anthony MB,

Introduction

We saw several children who, after a period of apparent normality, lost acquired skills, including communication. They all had gastrointestinal symptoms, including abdominal pain, diarrhoea, and bloating and, in some cases, food intolerance. We describe the clinical findings, and gastrointestinal features of these children.

Patients and methods

12 children, consecutively referred to the department of paediatric gastroenterology with a history of a pervasive developmental disorder with loss of acquired skills and intestinal symptoms (diarrhoea, abdominal pain, bloating and food intolerance), were investigated. All children were admitted to the ward for a week, accompanied by their parents.

Clinical investigations

We took histories including details of immunisations and exposure to infectious diseases, and assessed the children. In 11 cases the history was obtained by the senior clinician (JW-S). Neurological and psychiatric assessments were done by consultant staff (PH, MB) with HMS-4 criteria.[1] Developmental histories included a review of prospective developmental records from parents, health visitors, and general practitioners. Four children did not undergo psychiatric assessment in hospital; all had been assessed professionally elsewhere, so these assessments were used as the basis for their behavioural diagnosis.

After bowel preparation, ileocolonoscopy was performed by SHM or MAT under sedation with midazolam and pethidine. Paired frozen and formalin-fixed mucosal biopsy samples were taken from the terminal ileum; ascending, transverse, descending, and sigmoid colons, and from the rectum. The procedure was recorded by video or still images, and were compared with images of the previous seven consecutive paediatric colonoscopies (four normal colonoscopies and three on children with ulcerative colitis), in which the physician reported normal appearances in the terminal ileum. Barium follow-through radiography was possible in some cases.

Also under sedation, cerebral magnetic-resonance imaging (MRI), electroencephalography (EEG) including visual, brain stem auditory, and sensory evoked potentials (where compliance made these possible), and lumbar puncture were done.

Laboratory investigations

Thyroid function, serum long-chain fatty acids, and cerebrospinal-fluid lactate were measured to exclude known causes of childhood neurodegenerative disease. Urinary methylmalonic acid was measured in random urine samples from eight of the 12 children and 14 age-matched and sex-matched normal controls, by a modification of a technique described

RETRACTED

MMR & timing

IOM -> MMR & αυτισμός, 1998-2015
> 22 studies, NEJM, Lancet, JAMA, Vaccine

Institute of Medicine reviewed the body of literature and found that the evidence favors the rejection of a casual relationship between the MMR vaccine and autism.

Institute of Medicine. *Immunization Safety Review: Vaccines and Autism*. Washington, DC: National Academy Press, 2004. http://www.nap.edu/catalog.php?record_id=10997

IOM -> thimerosal & αυτισμός, 1998-2015 > 12 studies, NEJM, JAMA, PNAS, Pediatrics

Institute of Medicine reviewed the body of literature and found that the evidence favors the rejection of causal relationship between thimerosal-containing vaccines and autism.

Institute of Medicine. *Immunization Safety Review: Vaccines and Autism*. Washington, DC: National Academy Press, 2004. http://www.nap.edu/catalog.php?record_id=10997

Δανία -> μελέτη > 500,000 παιδιά

The New England
Journal of Medicine

Copyright © 2002 by the Massachusetts Medical Society

VOLUME 347 NOVEMBER 7, 2002 NUMBER 19

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 MADS MELBYE, M.D.

Δανία -> μελέτη > 500,000 παιδιά

TABLE 2. ADJUSTED RELATIVE RISK OF AUTISTIC DISORDER AND OF OTHER AUTISTIC-SPECTRUM DISORDERS IN VACCINATED AND UNVACCINATED CHILDREN.*

VACCINATION	PERSON-YEARS†	AUTISTIC DISORDER		OTHER AUTISTIC-SPECTRUM DISORDERS	
		NO. OF CASES	ADJUSTED RELATIVE RISK (95% CI)	NO. OF CASES	ADJUSTED RELATIVE RISK (95% CI)
Total	2,129,864	316		422	
Vaccination					
No	482,360	53	1.00	77	1.00
Yes	1,647,504	263	0.92 (0.68–1.24)	345	0.83 (0.65–1.07)
Age at vaccination					
Not vaccinated	482,360	53	1.00	77	1.00
≤14 mo	200,003	38	1.18 (0.78–1.80)	43	0.88 (0.60–1.28)
15–19 mo	1,320,753	195	0.86 (0.63–1.17)	270	0.83 (0.64–1.08)
20–24 mo	69,242	17	1.19 (0.69–2.07)	12	0.62 (0.33–1.13)
25–35 mo	40,935	11	1.20 (0.63–2.31)	15	1.09 (0.63–1.91)
≥36 mo	16,572	2	0.56 (0.14–2.30)	5	0.64 (0.26–1.59)

Madsen et al. NEJM 2002

USA -> μελέτη case-control

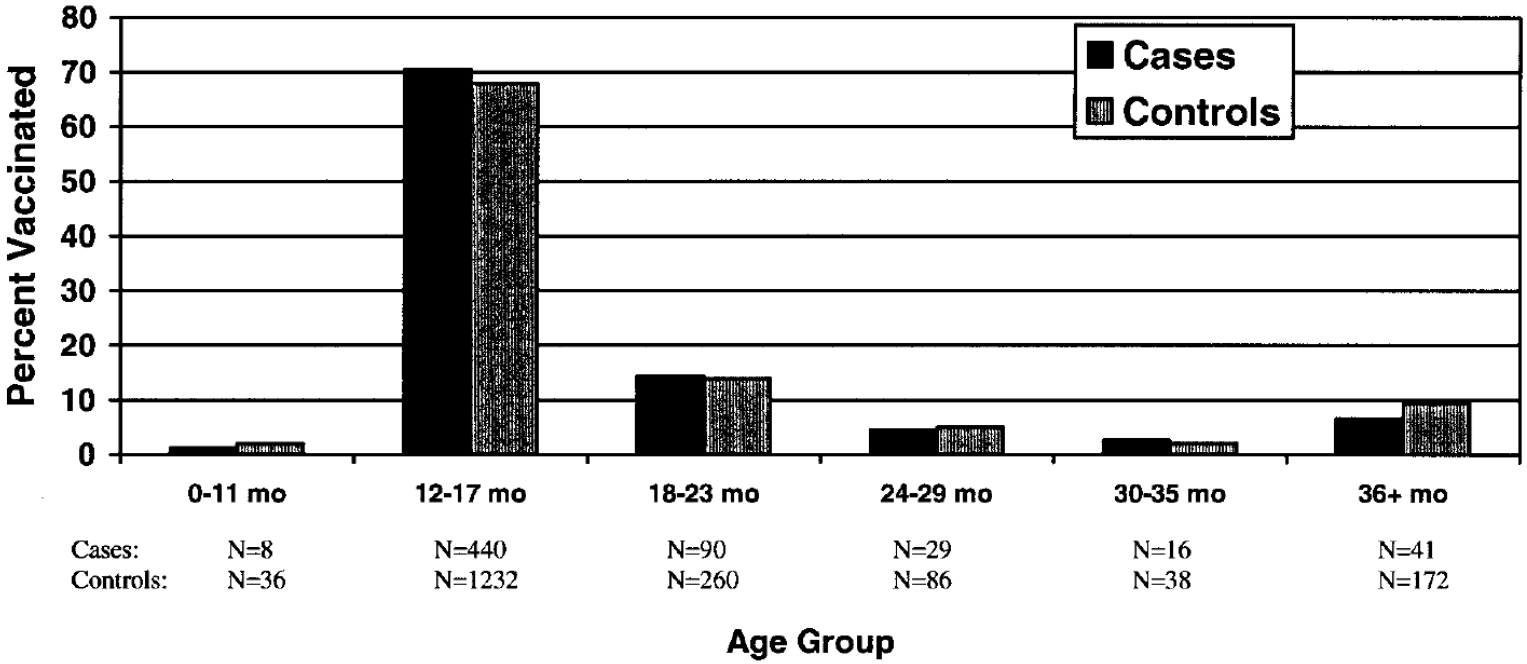
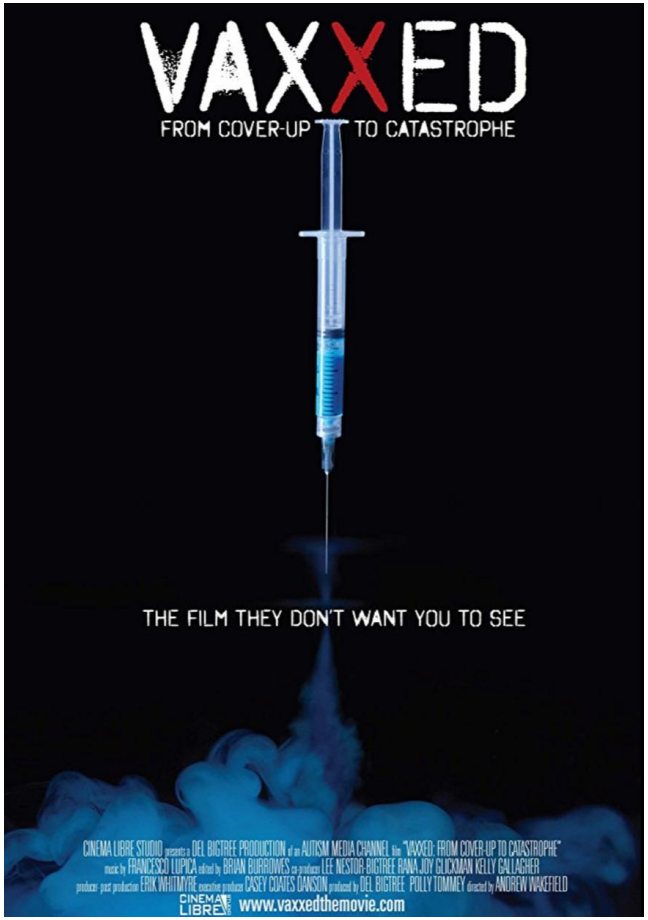


Fig 1. Age at first MMR vaccination by case status for total sample.

DeStefano et al. Pediatrics 2004

VAXXED & TRIBECA FILM FESTIVAL



Thimerosal & αυτισμός καμία συσχέτιση

The NEW ENGLAND JOURNAL of MEDICINE

ESTABLISHED IN 1812 SEPTEMBER 27, 2007 VOL. 357 NO. 13

Early Thimerosal Exposure and Neuropsychological Outcomes at 7 to 10 Years

William W. Thompson, Ph.D., Cristofer Price, Sc.M., Barbara Goodson, Ph.D., David K. Shay, M.D., M.P.H., Patti Benson, M.P.H., Virginia L. Hinrichsen, M.S., M.P.H., Edwin Lewis, M.P.H., Eileen Eriksen, M.P.H., Paula Ray, M.P.H., S. Michael Marcy, M.D., John Dunn, M.D., M.P.H., Lisa A. Jackson, M.D., M.P.H., Tracy A. Lieu, M.D., M.P.H., Steve Black, M.D., Gerrie Stewart, M.A., Eric S. Weintraub, M.P.H., Robert L. Davis, M.D., M.P.H., and Frank DeStefano, M.D., M.P.H., for the Vaccine Safety Datalink Team

Thimerosal -> δεν υπάρχει πλέον στα περισσότερα εμβόλια

Centers for Disease Control and Prevention
CDC 24/7: Saving Lives, Protecting People™

Thimerosal was taken out of childhood vaccines in the United States in 2001.

Measles, mumps, and rubella (MMR) vaccines do not and never did contain thimerosal. Varicella (chickenpox), inactivated polio (IPV), and pneumococcal conjugate vaccines have also never contained thimerosal.

- Denmark, abandoned thimerosal as a preservative in 1991
  - ↑ in the disease beginning several years later

Ανοσοενισχυντικά (adjuvants)

- Aluminum salts -> Τεκμηριωμένη ασφάλεια, 70 έτη
- Monophosphoryl lipid A -> 1 εμβόλιο ασφάλεια σε μεγάλες προοπτικές μελέτες

Efficacy, safety, and immunogenicity of the human papillomavirus 16/18 AS04-adjuvanted vaccine in women older than 25 years: 7-year follow-up of the phase 3, double-blind, randomised controlled VIVIANE study

*Cosette M Wheeler, S Rachel Skinner, M Rowena Del Rosario-Raymundo, Suzanne M Garland, Archana Chatterjee, Eduardo Lazcano-Ponce, Jorge Salmerón, Shelly McNeil, Jack T Stapleton, Céline Bouchard, Mark G Martens, Deborah M Money, Swee Chong Quek, Barbara Romanowski, Carlos S Vallejos, Bram ter Harmsel, Vera Prilepskaya, Kah Leng Fong, Henry Kitchener, Galina Minkina, Yong Kuei Timothy Lim, Tanya Stoney, Nahida Chakhtoura, Margaret E Cruickshank, Alevtina Savicheva, Daniel Pereira da Silva, Murdo Ferguson, Anco C Molijn, Wim G V Quint, Karin Hardt, Dominique Descamps, Pemmaraju V Suryakiran, Naveen Karkada, Brecht Geeraerts, Gary Dubin, Frank Struyf, for the VIVIANE Study Group**

Summary

Background Although the risk of human papillomavirus (HPV) infection is greatest in young women, women older than 25 years remain at risk. We present data from the VIVIANE study of the HPV 16/18 AS04-adjuvanted vaccine in adult women after 7 years of follow-up.

Lancet Infect Dis 2016
Published Online
June 28, 2016

Υπερφόρτωση του ανοσιακού?
Κάθε ημέρα εκτιθέμεθα σε αντιγόνα!!!

<u>Ανώτερο αναπνευστικό</u>

" …Ιογενής λοίμωξη εκθέτει ένα παιδί σε 4-10 αντιγόνα

& μια στρεπτοκοκκική λοίμωξη φάρυγγα σε 25-50."

Institute of Medicine. *Immunization Safety Review: Vaccines and Autism*. Washington, DC: National Academy Press, 2004. http://www.nap.edu/catalog.php?record_id=10997

Υπερφόρτωση του ανοσιακού? Κάθε ημέρα εκτιθέμεθα σε αντιγόνα!!!

- **Το μέσο παιδί θα μπορούσε να ανταποκριθεί επαρκώς σε 10,000 αντιγόνα σε μία έκθεση**

- **10 εμβολιασμοί χρησιμοποιούν 0.1% της ανοσιακής ικανότητας ενός παιδιού**

Institute of Medicine. *Immunization Safety Review: Vaccines and Autism*. Washington, DC: National Academy Press, 2004. http://www.nap.edu/catalog.php?record_id=10997

Πολύ λιγότερα αντιγόνα πλέον στα εμβόλια!!!

TABLE 2. Number of Immunogenic Proteins and Polysaccharides Contained in Vaccines Over the Past 100 Years

1900		1960		1980		2000	
Vaccine	Proteins	Vaccine	Proteins	Vaccine	Proteins	Vaccine	Proteins/ Polysaccharides
Smallpox*	~200	Smallpox	~200	Diphtheria	1	Diphtheria	1
Total	~200	Diphtheria†	1	Tetanus	1	Tetanus	1
		Tetanus‡	1	WC-Pertussis	~3000	AC-Pertussis¶¶	2–5
		WC-Pertussis§	~3000	Polio	15	Polio	15
		Polio‖	15	Measles¶	10	Measles	10
		Total	~3217	Mumps#	9	Mumps	9
				Rubella**	5	Rubella	5
				Total	~3041	Hib††	2
						Varicella‡‡	69
						Pneumococcus§§	8
						Hepatitis B‖‖	1
						Total	123–126

Offit P, et al. Pediatrics 109, 124-129 (2002)

? Guillain-Barré & εμβόλιο γρίπης 1993-2011,Καναδάς

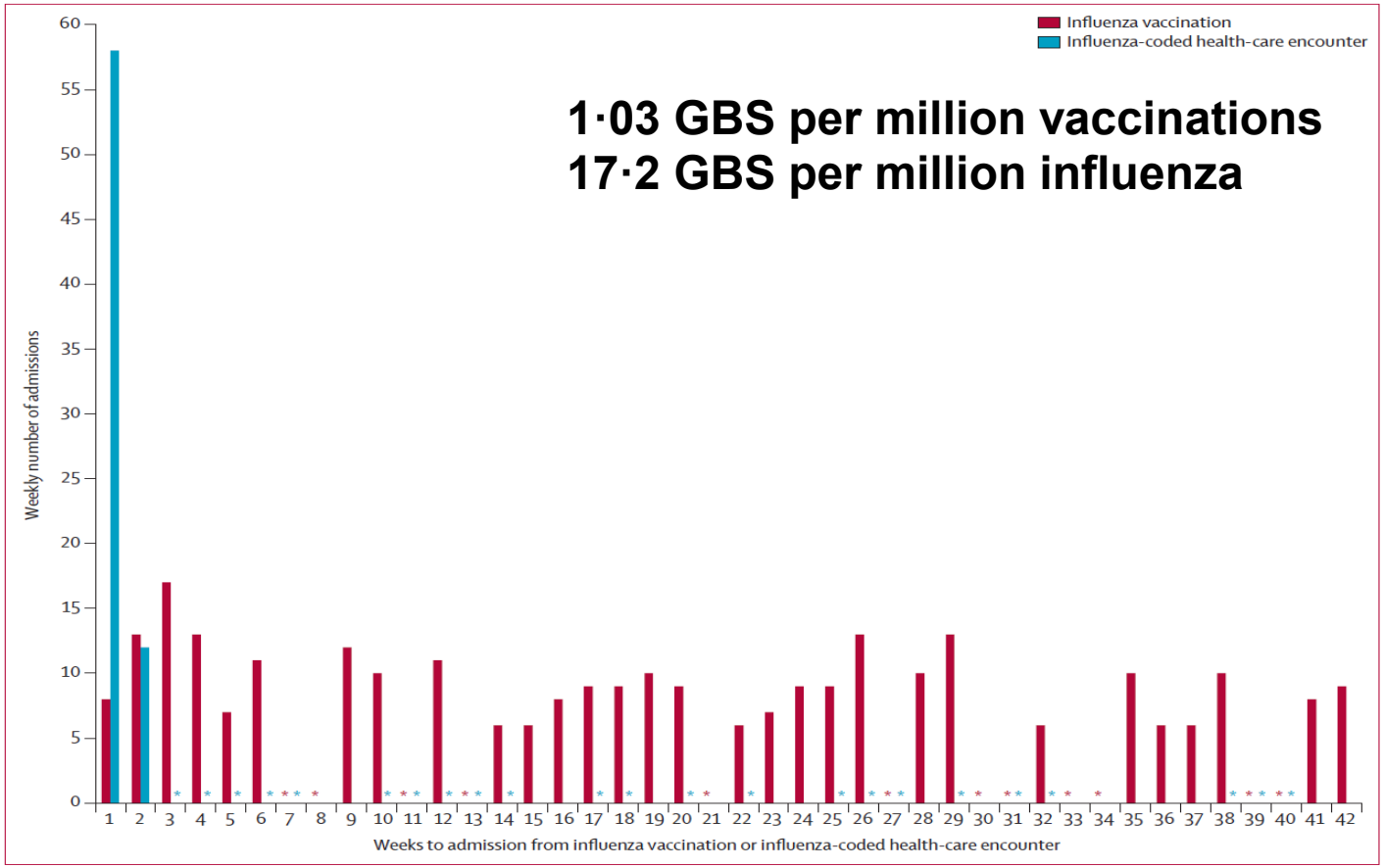


Figure: Number of cases of Guillain-Barré syndrome by week after receipt of influenza vaccine and after an influenza-coded health-care encounter
*Five or fewer admissions for Guillain-Barré syndrome; due to a contractual agreement with the data provider, numbers of five or fewer cannot be reported.

***Kwong, JC et al. Lancet Infect Dis* 2013; 13: 769–76**

? Guillain-Barré & εμβόλιο

- ΗΠΑ --> 3,000-6,000 άτομα κατ’έτος με GBS
  - 1-2 / 100,000 πληθυσμού
- μεγάλες μελέτες «συσχέτισης» με εμβόλιο
  - 1-2 / 1,000,000 εμβολιασθέντες

Προκαλούν τα εμβόλια χρόνια νόσο;

- Διαβήτη, Αλλεργίες/άσθμα, SIDS, MS
- Τουλάχιστον 10 μεγάλες μελέτες λένε **ΟΧΙ**
  - NEJM, VACCINE, Pediatrics

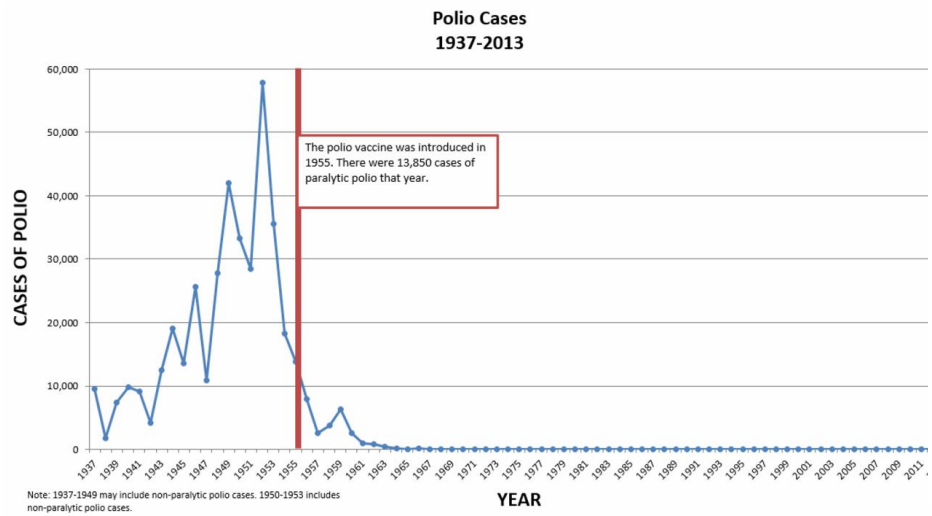
HEPATITIS B VACCINATION AND THE RISK OF MULTIPLE SCLEROSIS

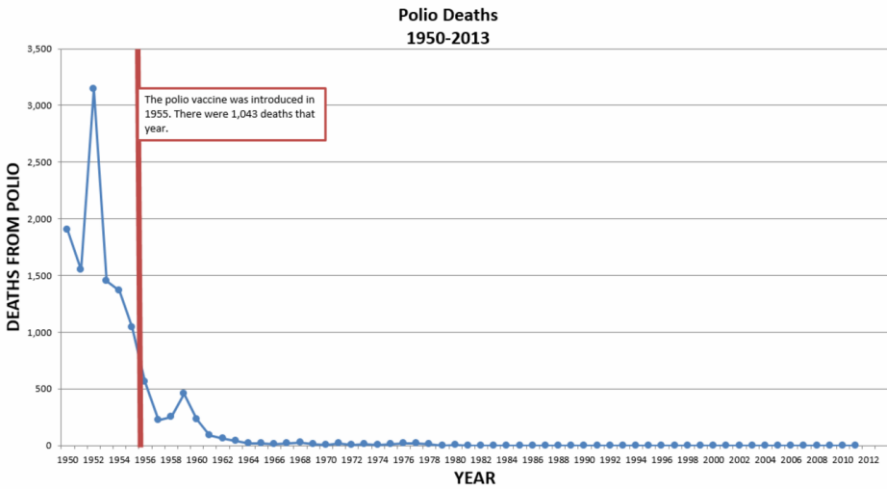
ALBERTO ASCHERIO, M.D., DR.P.H., SHUMIN M. ZHANG, M.D., SC.D., MIGUEL A. HERNÁN, M.D., DR.P.H., MICHAEL J. OLEK, M.D., PAUL M. COPLAN, SC.D., KIMBERLY BRODOVICZ, M.P.H., AND ALEXANDER M. WALKER, M.D., DR.P.H.

Υπάρχουν παρενέργειες από τα εμβόλια;

- **Παροδικές και υποχωρούν γρήγορα**
  - Ήπιος πόνος στην περιοχή της ένεσης
  - Ήπιος ερεθισμός, οίδημα
  - Ήπιο πυρέτιο, κεφαλαλγία, ανορεξία
  - Πολύ σπάνια αλλεργία ή σοβαρές επιπλοκές
  - **<u>ΠΡΟΣΟΧΗ</u> στα ζωντανά εξασθενημένα**

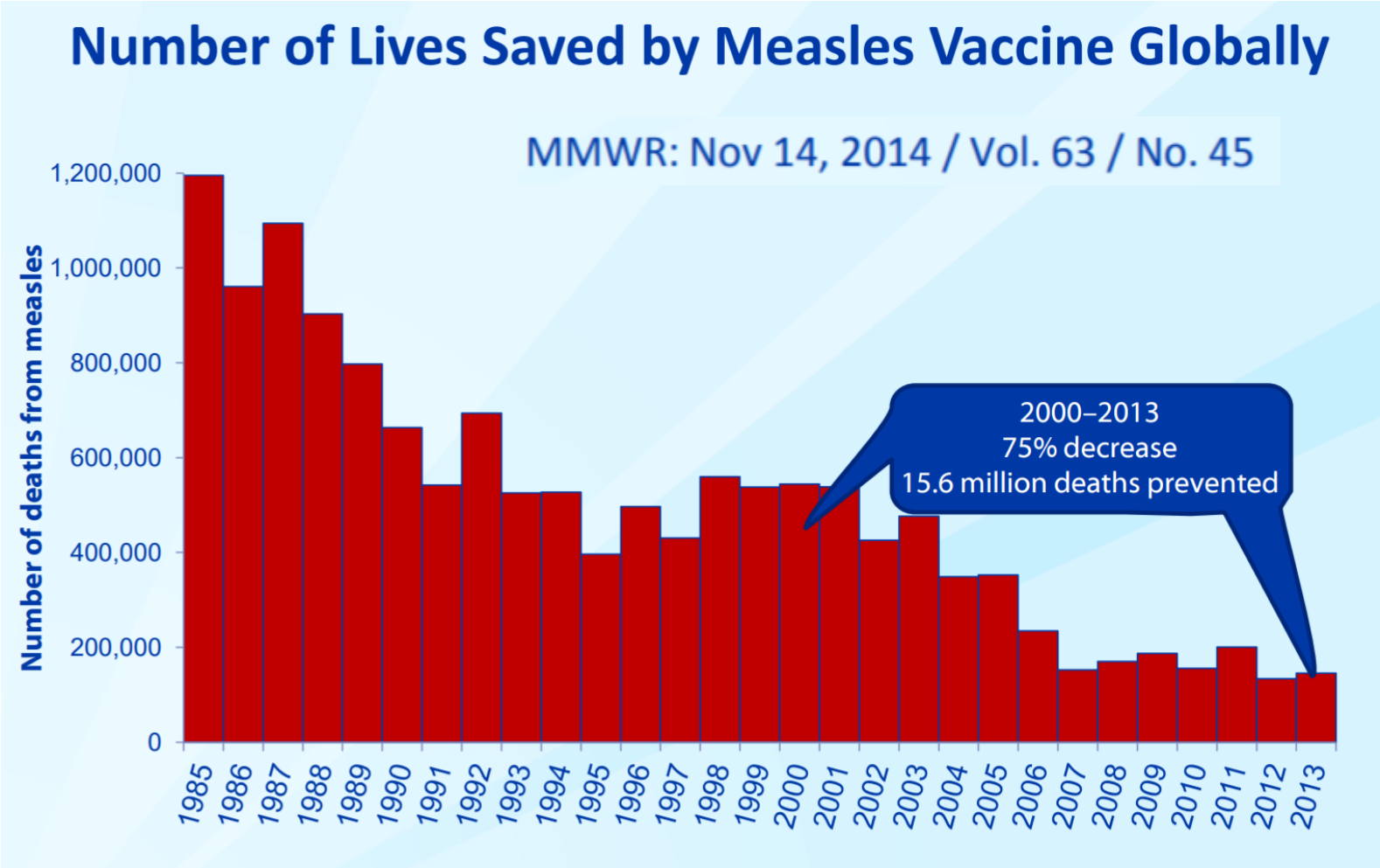
Εμβόλιο polio, δεδομένα ΗΠΑ





https://vaccines.procon.org/

Εμβόλιο ιλαράς 2000-13-> πρόληψη 15.6 εκατομμυρίων θανάτων παγκοσμίως



Το αντι-εμβολιαστικό κίνημα -> συνέπειες!

Forbes LOG IN

YOUR READING LIST

Anti-Vaccine Movement Causes The Worst Whooping Cough Epidemic In 70 Years

PODCAST: What Disney Is Telling Us About The Future Of Sports

+12629 views in the last 24 hours

Fantasy Football: Top Sleeper Running Backs To Play In Week 3

Active on Facebook

NFL Broadcasting Stocks Slump As Protests Rise And TV Ratings Fall

Pharma & Healthcare

JUL 23, 2012 @ 06:00 AM 120,972

Your Ultimate Guide to Buying Bitcoin

Anti-Vaccine Movement Causes The Worst Whooping Cough Epidemic In 70 Years

Steven Salzberg, CONTRIBUTOR

Fighting Pseudoscience FULL BIO

Opinions expressed by Forbes Contributors are their own.

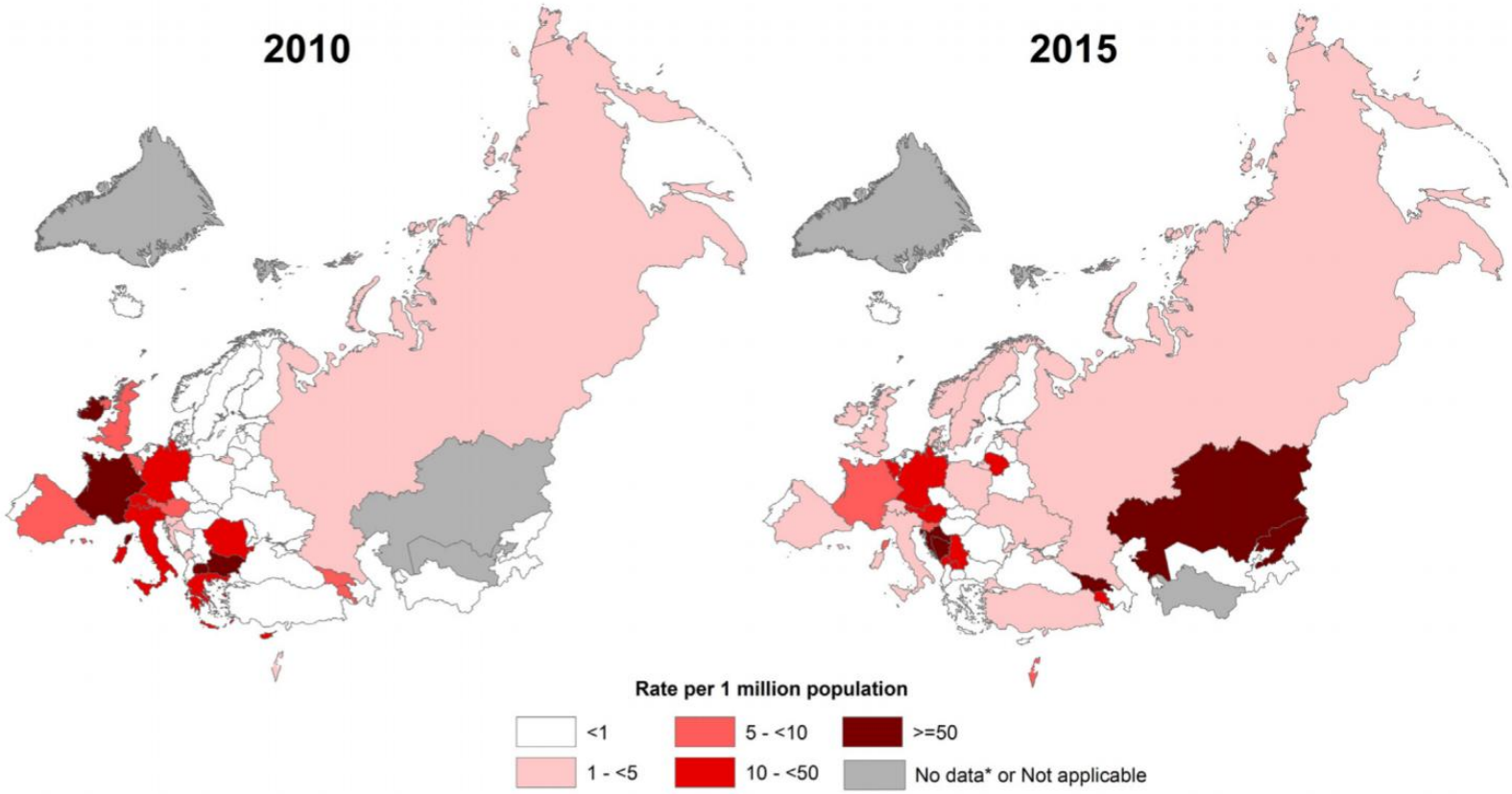
The great northwest of the U.S. is known for its natural beauty. It's also a high-tech region with a highly educated public - not exactly the kind of place one would expect to fall for the anti-science rhetoric of the anti-vaccine movement.

Anti-vaccination conspiracy theorist at a Tea Party Express rally (Photo credit: Fibonacci Blue)

But it has. The anti-vaxxers have convinced a frighteningly high number of parents in Washington State to withhold vaccines from their children. A story in *The*

Το αντι-εμβολιαστικό κίνημα -> συνέπειες!

Το αντι-εμβολιαστικό κίνημα -> συνέπειες! Ιλαρά 2010, 2015



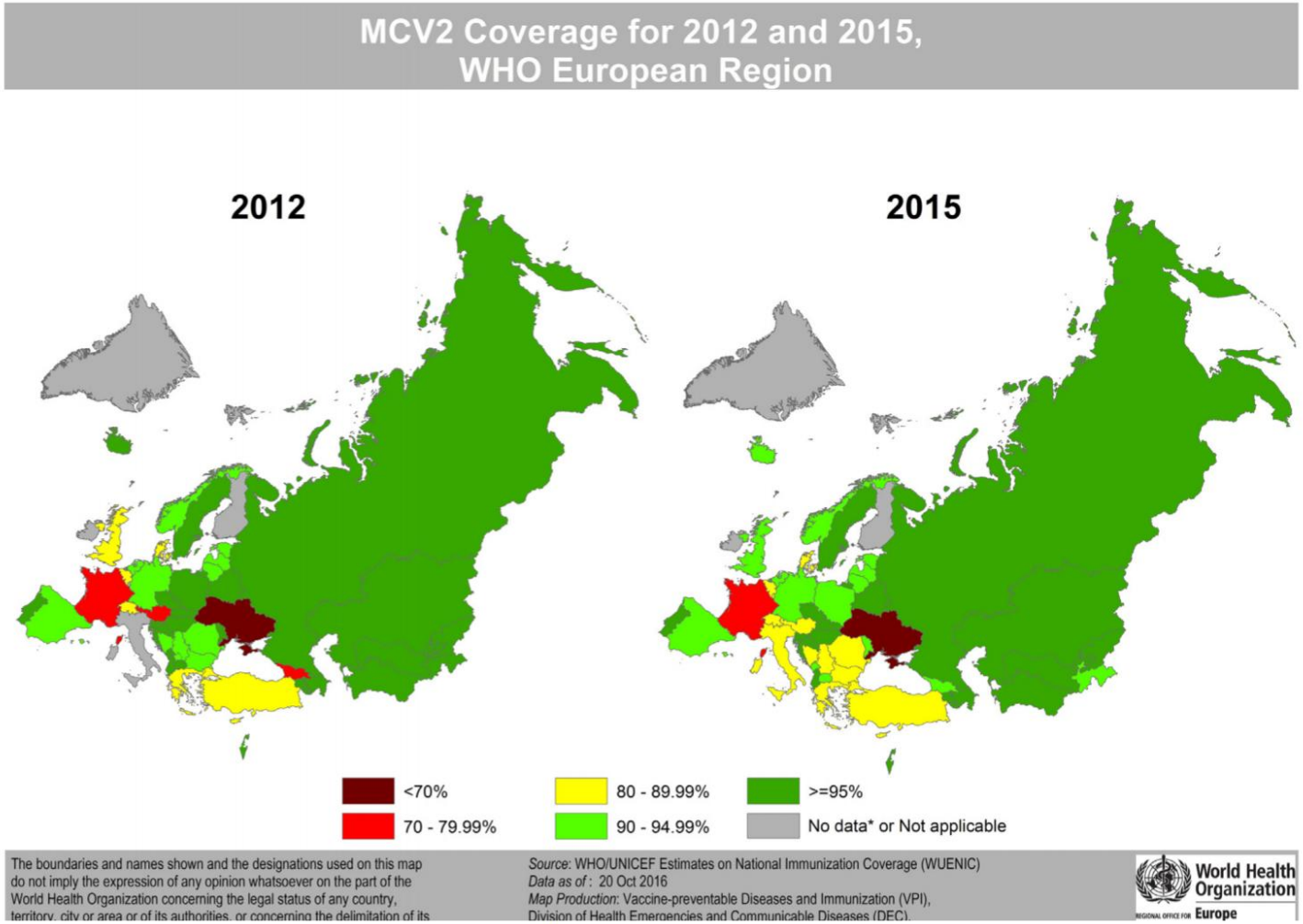
The boundaries and names shown and the designations used on this map do not imply the expression of any opinion whatsoever on the part of the World Health Organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted and dashed lines on maps represent approximate border lines for which there may not yet be full agreement.

© WHO 2017. All rights reserved.

Source: Centralized Information System for Infectious Diseases (CISID)
Data as of: 18 January 2017
Map Production: Vaccine-preventable Diseases and Immunization (VPI), Division of Health Emergencies and Communicable Diseases (DEC), World Health Organization Regional Office for Europe.
*Countries with No data: 2012 - Kazakhstan, Monaco, San Marino and Uzbekistan;

World Health Organization
REGIONAL OFFICE FOR Europe

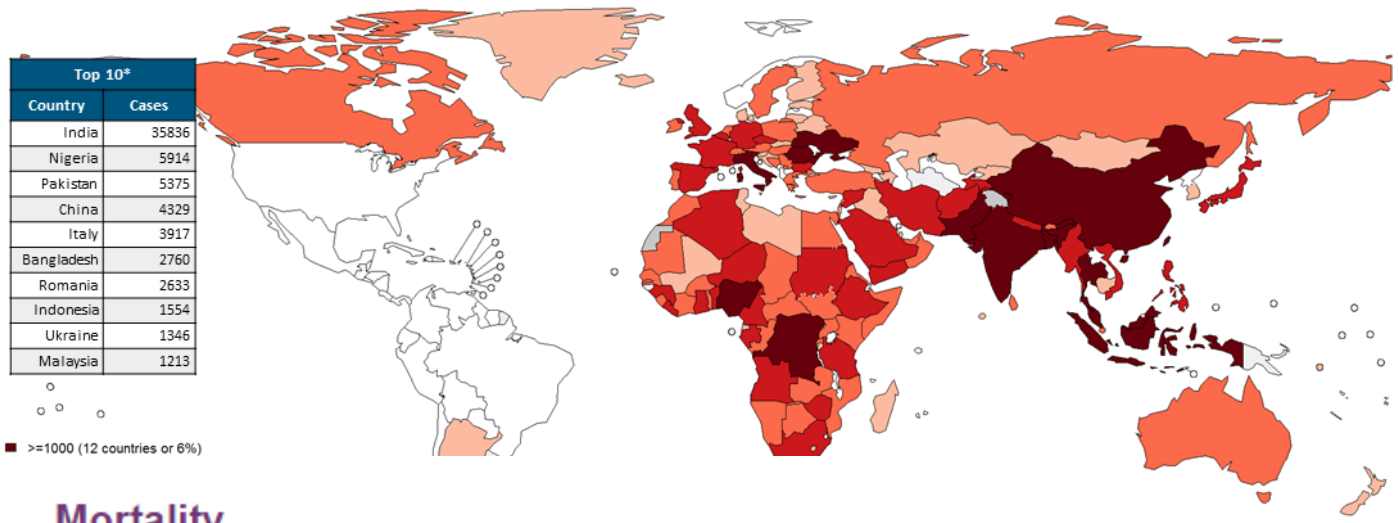
Το αντι-εμβολιαστικό κίνημα -> συνέπειες! Ιλαρά 2010, 2015



Το αντι-εμβολιαστικό κίνημα -> συνέπειες!
Ιλαρά 2017, Ευρώπη > 15,000, 43 θάνατοι

Number of Reported Measles Cases (6M period)

Top 10*	
Country	Cases
India	35836
Nigeria	5914
Pakistan	5375
China	4329
Italy	3917
Bangladesh	2760
Romania	2633
Indonesia	1554
Ukraine	1346
Malaysia	1213



Mortality

134 200

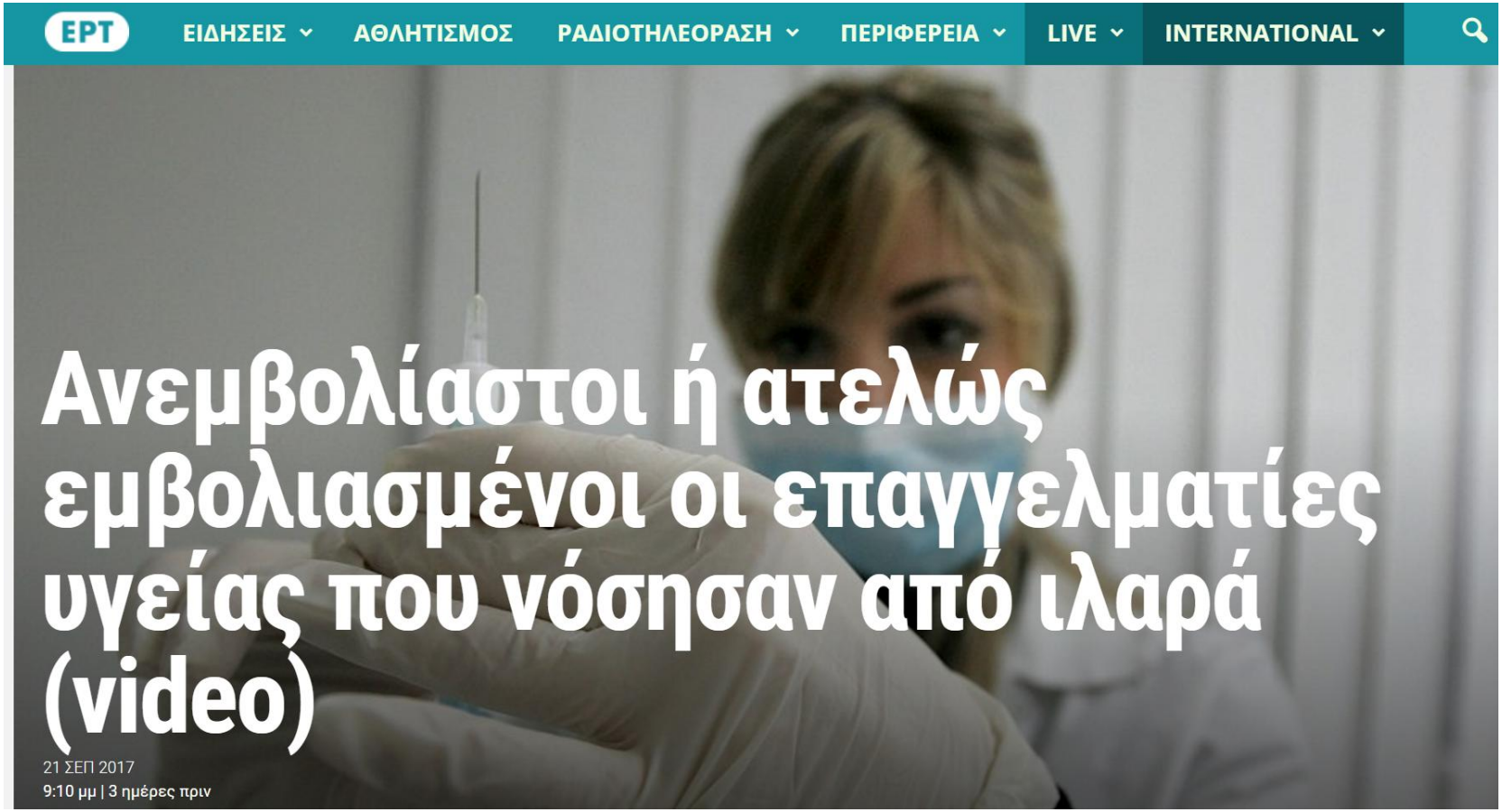
estimated deaths from measles in 2015 (15 deaths every hour)

own and the designations used on this map do notimply the expression of any opinion whatsoever on the part of the ncerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation Dotted and dashed lines on maps represent approximate border lines for which there may not yet be full agreement.

nest number of cases for the period

World Health Organization

Επαγγελματίες υγείας & ρόλος



Νέα Γρίπη: Λιγότερο από το ένα δέκατο των υγειονομικών εμβολιάστηκε

Με μάλλον... πενιχρά αποτελέσματα κλείνει η εβδομάδα εμβολιασμού γιατρών και νοσηλευτών κατά της νέας γρίπης: Μέχρι και την Παρασκευή, κάτι παραπάνω από 12.000 άτομα είχαν εμβολιαστεί, χωρίς να ανήκουν όλα στο προσωπικό των νοσοκομείων.

Σύμφωνα με το Κέντρο Ελέγχου και Πρόληψης Νοσημάτων (ΚΕΕΛΠΝΟ), την Παρασκευή, πέμπτη μέρα του πανδημικού εμβολιασμού, εμβολιάστηκαν 2.800 άτομα στα 161 εμβολιαστικά κέντρα που λειτουργούν από τις 16 Νοεμβρίου σε κρατικά, πανεπιστημιακά, στρατιωτικά και ιδιωτικά νοσοκομεία.

Έτσι, το σύνολο των ατόμων που θωρακίστηκαν ενάντια στον ιό H1N1 φτάνει τα 12.057. Ωστόσο, δεν είναι όλοι επαγγελματίες του χώρου της Υγείας, αφού από την πρώτη κιόλας μέρα, άτομα υψηλού κινδύνου έσπευσαν στα νοσοκομεία για να εμβολιαστούν.

Με αυτά τα δεδομένα και αν ληφθεί υπόψη ότι το σύνολο των επαγγελματιών που στελεχώνουν το σύστημα Υγείας (από διάφορους κλάδους) είναι περίπου 115.000, είναι φανερό ότι δεν έχει εμβολιαστεί ούτε ένας στους δέκα!

Οι πιθανότητες να εμβολιαστούν μαζικά το επόμενο διάστημα μειώνονται, αφού από την Δευτέρα, 23 Νοεμβρίου, έρχεται και επισήμως η σειρά των ευπαθών ομάδων του πληθυσμού, μεγάλο μέρος των οποίων θα εμβολιαστεί στα νοσοκομεία. Το ίδιο θα κάνει από 1ης Δεκεμβρίου και ένα μέρος του υγιούς πληθυσμού. Αυτό σημαίνει ότι ο διαθέσιμος προς εμβολιασμό χρόνος των υγειονομικών θα περιοριστεί.

Εγγραφείτε στο newsletter μας

Ακολουθήστε μας

ΚΕΘΕΑ
Στην κρίση είμαστε όλοι μαζί
ΣΤΗΝ ΚΡΙΣΗ ΑΠΑΝΤΑΜΕ ΜΕ ΑΛΛΗΛΕΓΓΥΗ

Επικαιρότητα

- Αποφασισμένος να αξιοποιήσει την ακίνητη περιουσία των νοσοκομείων ο υπουργός Υγείας

Επαγγελματίες υγείας - ο ρόλος τους κρίσιμος

Clinical Microbiology and Infection 23 (2017) 279–280

Contents lists available at ScienceDirect

Clinical Microbiology and Infection

journal homepage: www.clinicalmicrobiologyandinfection.com

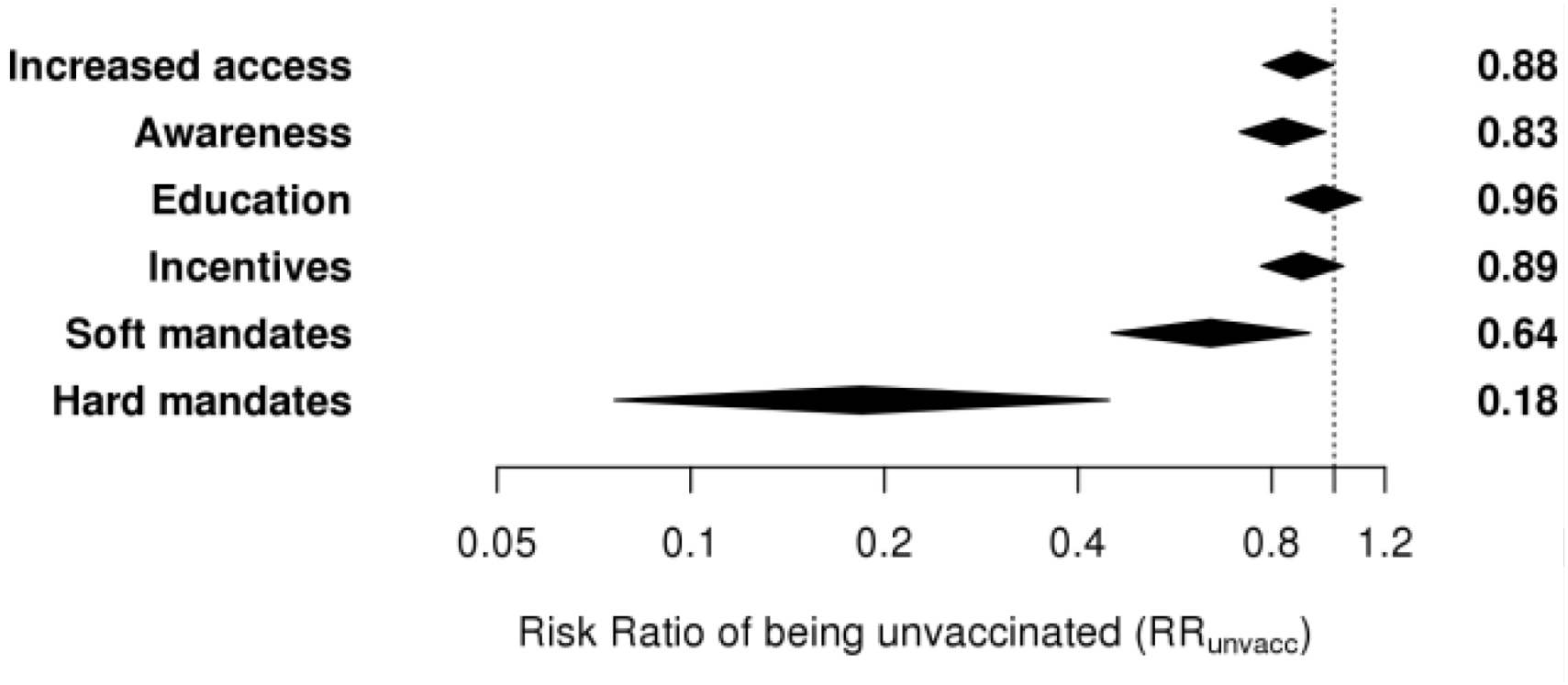
Commentary

Addressing vaccine hesitancy: the crucial role of healthcare providers

E. Dubé*

Institut national de santé publique du Québec and Centre de recherche du CHU de Québec – Université Laval, Québec, QC, Canada

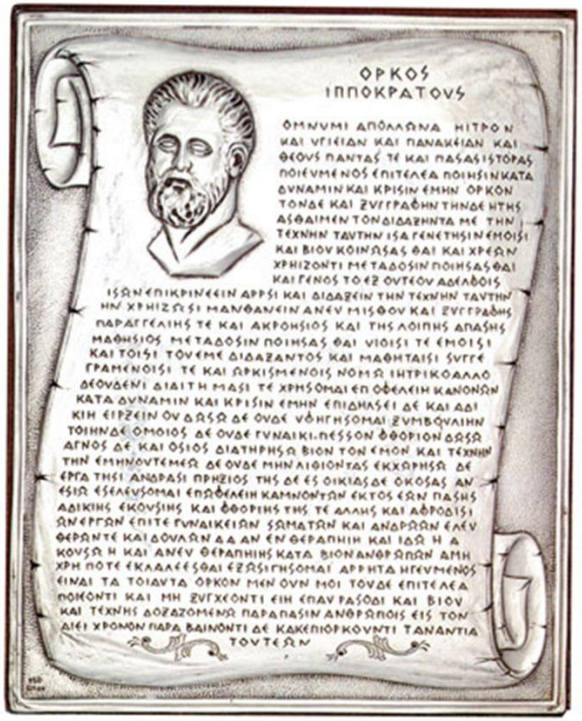
Ποια είναι η λύση;



Lytras T et al. Human Vaccines & Immunotherapeutics 2016

ΕΠΑΓΓΕΛΜΑΤΙΕΣ ΥΓΕΙΑΣ & ΗΘΙΚΟ ΚΑΘΗΚΟΝ

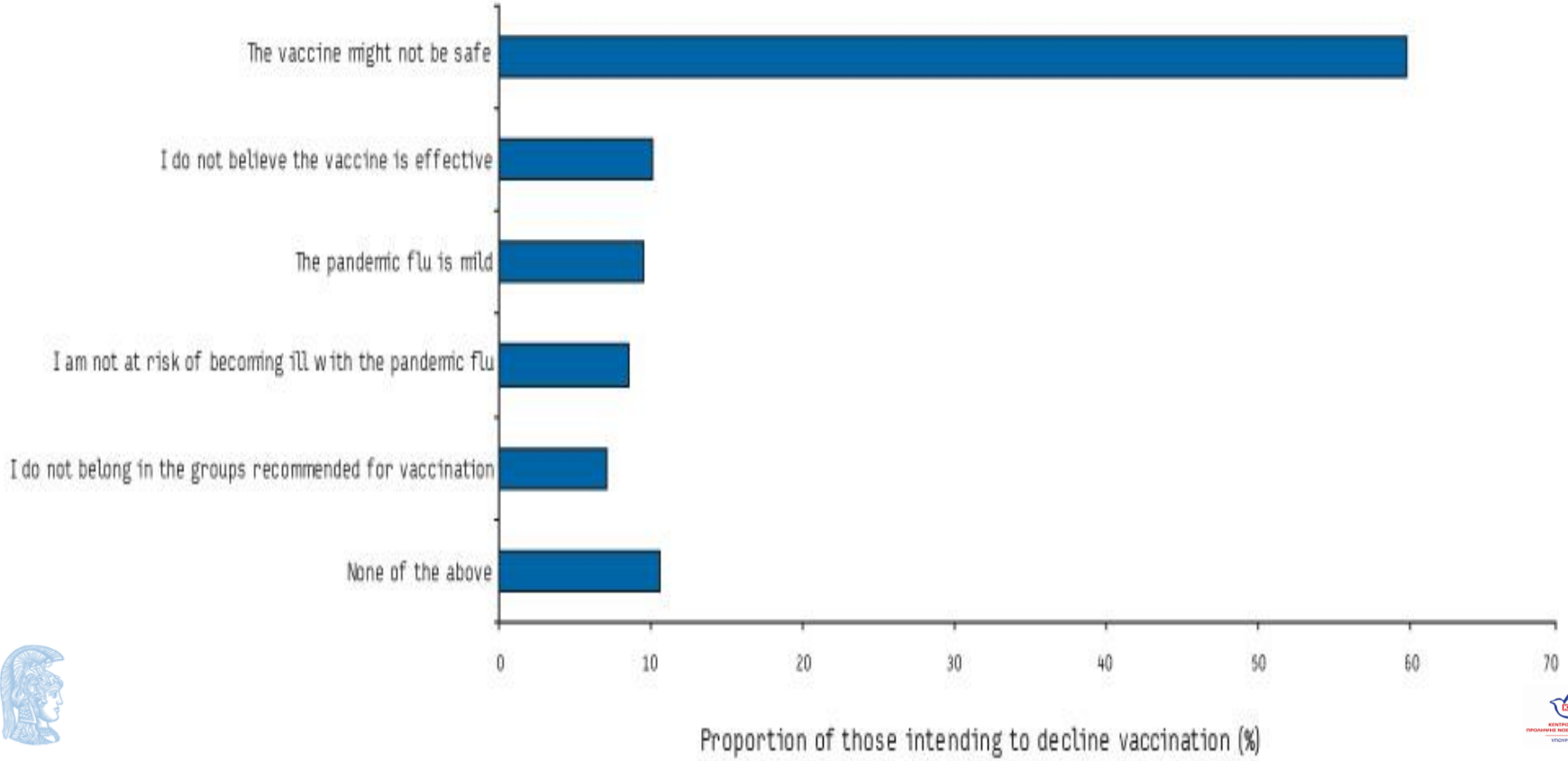
- Το ιατρονοσηλευτικό προσωπικό έχει ηθικό καθήκον να προστατεύσει τους ασθενείς του από τη μετάδοση νόσων
  - στο νοσοκομείο και
  - στο ιατρείο.



Γενικό κοινό – απάντηση στους φόβους, ενίσχυση επικοινωνίας

FIGURE 2

Reasons for intention to decline pandemic vaccination as reported by 631 participants in week 44/2009 (multiple answers were allowed), Greece



Εμβόλια παιδιών - γονείς

- Ακούστε προσεκτικά & με σεβασμό
- Με ειλικρίνεια απαντήστε ερωτήσεις για γνωστούς/άγνωστους κινδύνους-παρενέργειες
  - Όχι μεμονωμένα αλλά σε σχέση με όφελος
- Συζητήστε εμβόλια ένα προς ένα
- ↓πόνο, πιθανότητες ΑΕ
- Μιλήστε τους σε κάθε επίσκεψη για τα εμβόλια

1.000.000 που θα εμβολιαστούν με MMR

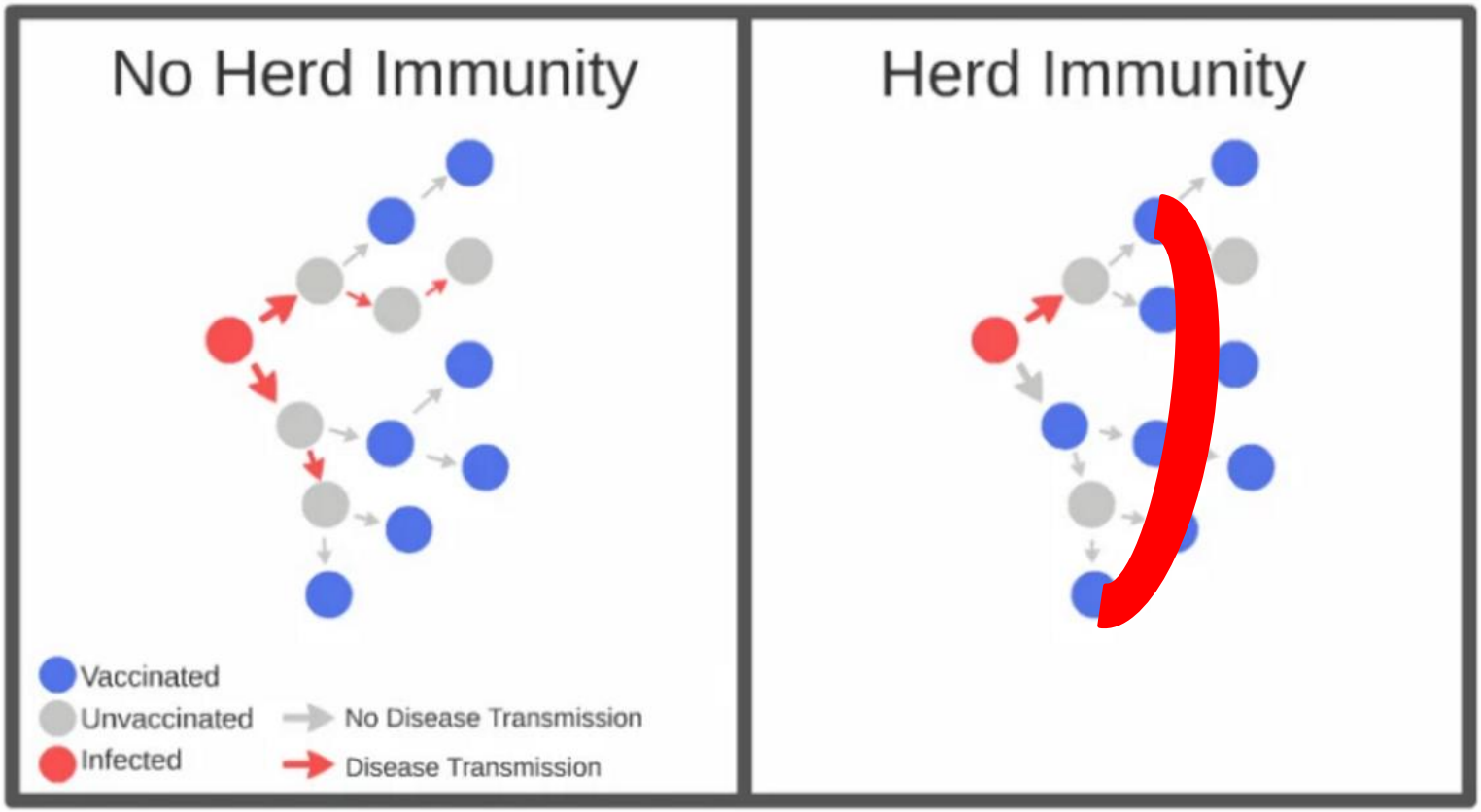
- Πυρετικοί σπασμοί 300
- Αναφυλαξία 4
- Εγκεφαλίτιδα 1
- Θρομβοπενία 26

1.000.000 που θα νοσήσουν με ιλαρά

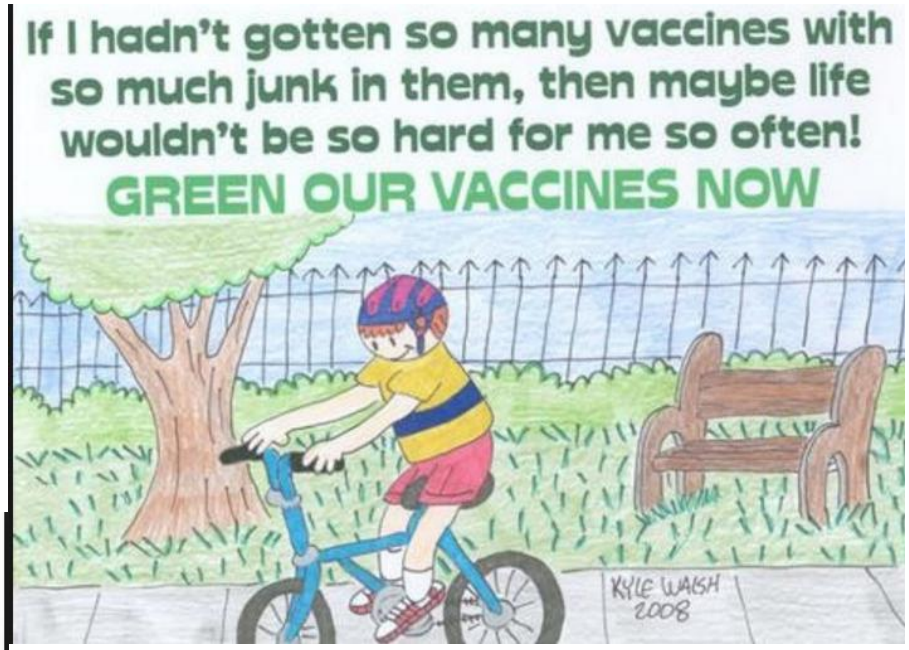
- Πυρετικοί σπασμοί 10.000
- 2θή πνευμονία 50.000
- Εγκεφαλίτιδα 2000
- **Θάνατοι 200**
- Μέση ωτίτιδα 90.000
- Γαστρεντερίτιδα 80.000
- Θρομβοπενία 330

Public health of England

ΑΝΟΣΙΑ ΤΗΣ ΑΓΕΛΗΣ



Απόρριψη των μύθων



Public Health
Volume 124, Issue 6, June 2010, Pages 360–361

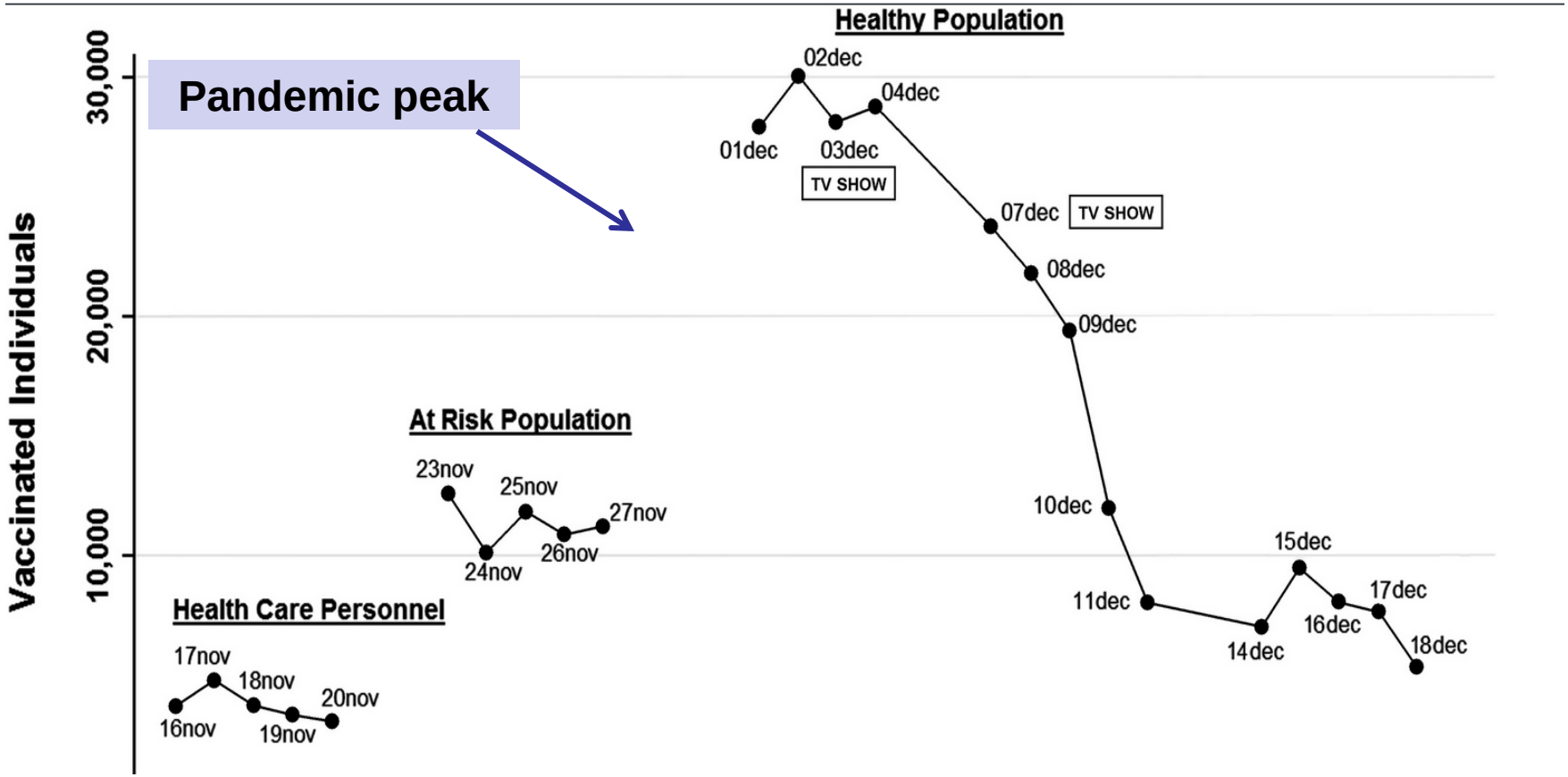
Letter to the Editor

The media: A public health partner or an unintentional enemy?

G. Nikolopoulos, S. Bonovas

Hellenic Centre for Diseases Control and Prevention, 15123 Athens, Greece

Available online 1 April 2010.



ΣΥΜΠΕΡΑΣΜΑΤΑ

- Τα εμβόλια είναι ασφαλή
- Τα εμβόλια δεν συνδέονται με αυτισμό
- Λίγες οι πραγματικές ανεπιθύμητες ενέργειες-πολύ σημαντικό το όφελος σε σχέση με την νόσο
- Το αντιεμβολιαστικό κίνημα έχει οδηγήσει σε επάνοδο επιδημιών από «εξαφανισμένα» νοσήματα

ΣΥΜΠΕΡΑΣΜΑΤΑ (2)

- Ανάγκη **περαιτέρω βελτίωσης**
  - ↑ **ενίσχυση υποστήριξης εμβολίων από επαγγελματίες υγείας**
  - ↑ **επιπέδου γνώσεων** στον γενικό πληθυσμό με έμφαση στην ακρίβεια της πληροφόρησης, **σημασία των νόσων**
    - **Προληπτική δράση του εμβολιασμού**
  - ↑ **επιπέδου γνώσεων** στους δημοσιογράφους, media
  - **Βελτίωση της επικοινωνίας αβεβαιοτήτων**
  - **Οικοδόμηση εμπιστοσύνης με το κοινό**

ILLNESS PREVENTED & LIVES SAVED

(IN MILLIONS; 2011-2020)

CASES PREVENTED		LIVES SAVED
31 M	HIB	1.4 M
21 M	PNEUMOCOCCAL	1.5 M
50 M	ROTAVIRUS	0.8 M

VACCINES

SAVING MONEY, SAVING LIVES

#VACCINESWORK

BILL & MELINDA GATES *foundation*

JOHNS HOPKINS BLOOMBERG SCHOOL of PUBLIC HEALTH

IVAC International Vaccine Access Center

"The good thing about science is that it's true whether or not you believe in it"

Neil deGrasse Tyson