



Annual Science Report 2009

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Foreword

RIVM's 2009 Annual Report provides a comprehensive overview of the institute's activities, which are mainly geared towards collecting and disseminating knowledge. Having obtained knowledge in a particular field, notably by conducting research, RIVM then shares it with its commissioning bodies, co-operation partners and other interested parties. The information thus disseminated often results in high-level policy changes.

RIVM disseminates the knowledge it collects in many ways. For instance, the institute publishes an enormous amount of information each year. All internal RIVM reports can be found on the website.

The current appendix lists RIVM's (inter)national scientific output over the course of 2009, ranging from papers, bookchapters to doctoral theses. With a total of 732 scientific publications over 2009, up from 722 in 2008, RIVM is building a strong profile for itself as an internationally oriented knowledge centre. I am proud of the marked increase in RIVM publications and regard it as the crowning glory of the work we did in 2009.

Dr Marc J.W. Sprenger
Director-General

Research Output

Centre for Infectious
Disease Control

CIb

Research papers (international, 235)

Advani A; Heide HGJ van der; Hallander HO; Mooi FR

Analysis of Swedish Bordetella pertussis isolates with three typing methods: characterization of an epidemic lineage
J Microbiol Methods 2009; 78(3):297-301

Akmatov MK; Mikolajczyk RT; Kretzschmar M; Kramer A

Attitudes and beliefs of parents about childhood vaccinations in post-Soviet countries
Pediatr Infect Dis J 2009; 28(7):637-40

Alffenaar JWC; Altena R van; Bokkerink HJ; Luijckx GJ; Soolingen D van; Aarnoutse RE; Werf TS van der

Pharmacokinetics of moxifloxacin in cerebrospinal fluid and plasma in patients with tuberculosis meningitis
Clin Infect Dis 2009; 49(7):1080-2

Al-Mahruqi SH; Ingen J van; Al-Busaidy S; Boeree MJ; Al-Zadjali S; Patel A; Dekhuijzen PNR; Soolingen D van

Clinical relevance of nontuberculous mycobacteria, Oman
Emerg Infect Dis 2009; 15(2):292-4

Anthony RM; Cobelens FGJ; Gebhard A; Klatsen PR; Lumb R; Rusch-Gerdes S; Soolingen D van

Liquid culture for Mycobacterium

tuberculosis: proceed, but with caution
Int J Tuberc Lung Dis 2009; 13(9):1051-3

Arend SM; Soolingen D van; Ottenhoff TH
Diagnosis and treatment of lung infection with nontuberculosis mycobacteria
Curr Opin Pulm Med 2009; 15(3):201-8

Asselt E van; Fischer A; Jong AEI de; Nauta MJ; Jonge R de
Cooking practices in the kitchen - Observed versus predicted behavior
Risk Anal 2009; 29(4):533-40

Asten L van; Lubben M van der; Wijngaard CC van den; Pelt W van; Verheij R; Jacobi A; Overduin P; Meijer A; Luijt D; Claas E; Hermans M; Melchers W; Rossen J; Schuurman R; Wolffs P; Bouchier C; Schirm J; Kroes L; Leenders S; Galama J; Peeters M; Loon A van; Stobberingh E; Schutten M; Koopmans M

Strengthening the diagnostic capacity to detect Bio Safety Level 3 organisms in unusual respiratory viral outbreaks
J Clin Virol 2009; 45(3):185-90

Baas MC; Donselaar KAMI van; Florquin S; Binnendijk RS van; Berge IJM ten; Bemelman FJ

Mumps: not an innocent bystander in solid organ transplantation
Am J Transplant 2009; 9(9):2186-9

Ballegooijen WM van; Houdt R van;

Bruisten SM; Boot HJ; Coutinho RA; Wallinga J

Molecular sequence data of hepatitis B virus and genetic diversity after vaccination

Am J Epidemiol 2009; 170(12):1455-63

Ballegooijen WM van; Houdt R van;

Bruisten SM; Boot HJ; Coutinho RA; Wallinga J

Respond to 'Evaluating vaccination programs using genetic sequence data'

Am J Epidemiol 2009; 170(12):1467-8

Barker GC; Gomez N; Smid J

An introduction to biotracing in food chain systems

Trends Food Sci Technol 2009; 20(5):220-6

Bartek IL; Rutherford R; Gruppo V; Morton RA;

Morris RP; Klein MR; Visconti KC; Ryan GJ;

Schoolnik GK; Lenaerts A; Voskuil MI

The DosR regulon of *M. tuberculosis* and antibacterial tolerance

Tuberculosis 2009; 89(4):310-6

Bavinck V; Bouma A; Boven M van; Bos MEH;

Stassen E; Stegeman JA

The role of backyard poultry flocks in the epidemic of highly pathogenic avian influenza virus (H7N7) in the Netherlands in 2003

Prev Vet Med 2009; 88(4):247-54

Beersma MFC; Schutten M; Vennema H;

Hartwig NG; Mes THM; Osterhaus ADME;

Doornum GJJ van; Koopmans M

Norovirus in a Dutch tertiary care hospital (2002-2007): frequent nosocomial transmission and dominance of GIIB strains in young children

J Hosp Infect 2009; 71(3):199-205

Ben Ayed L; Schijven J; Alouini Z; Jemli M;

Sabbahi S

Presence of parasitic protozoa and helminth in sewage and efficiency of sewage treatment in Tunisia

Parasitol Res 2009; 105(2):393-406

Berbers GAM; Greeff SC de; Mooi FR

Improving pertussis vaccination

Hum Vaccin 2009; 5(7):497-503

Berg CHSB van den; Laar TJW van de; Kok A;

Zuure FR; Coutinho RA; Prins M

Never injected, but hepatitis C virus-infected: a study among self-declared never-injecting drug users from the Amsterdam Cohort Studies

J Viral Hepat 2009; 16(8):568-77

Bernard H; Fischer R; Mikolajczyk RT;

Kretzschmar M; Wildner M

Nurses' contacts and potential for infectious disease transmission

Emerg Infect Dis 2009; 15(9):1438-44

Bisseye C; Sande M van der; Morgan WD;

Holder AA; Pinder M; Ismaili J

Plasmodium falciparum infection of the placenta impacts on the T helper type 1 (Th1)/Th2 balance of neonatal T cells through CD4(+)/CD25(+) forkhead box P3(+) regulatory T cells and interleukin-10

Clin Exp Immunol 2009; 158(3):298-93

Bivas-Benita M; Young Lin M; Bal SM;

Meijgaarden KE van; Franken KLME; Friggen

AH; Junginger HE; Borchard G; Klein MR;

Ottenhoff THM

Pulmonary delivery of DNA encoding

Mycobacterium tuberculosis latency antigen Rv1733c associated to PLGA-PEI nanoparticles enhances T cell responses in a DNA prime/protein boost vaccination regimen in mice

Vaccine 2009; 27(30):4010-7

Boot HJ; Schipper CMA

Simultaneous vaccination with prevenar and multicomponent vaccines for children. Interference or no interference?

Human Vaccine 2009; 5(1):15-7

Boot HJ; Waaij LA van der; Schirm J;

Kallenberg CG; Steenbergen J; Wolters B

Acute hepatitis B in a healthcare worker: a case report of genuine vaccination failure

J Hepatol 2009; 50(2):426-31

Boot HJ; Waaij LA van der; Schrim J;

Kallenberg CG; Steenbergen J van; Wolters B

Acute hepatitis B in a healthcare worker: a lesson in awareness of failure of hepatitis B vaccination

J Hepatol 2009; 51(4):826-7

Boot R; Vlemminx MJ; Reubsaet FAG

Comparison of polymerase chain reaction primer sets for amplification of rodent Pasteurellaceae

Lab Anim 2009; 43(4):371-5

Borg MA; Tiemersma E; Scicluna E; Sande-Bruinsma N van de; Kraker M de; Monen J; Grundmann H

Prevalence of penicillin and erythromycin resistance among invasive Streptococcus pneumoniae isolates reported by

laboratories in the southern and eastern Mediterranean region

Clin Microbiol Infect 2009; 15(3):232-7

Bouma A; Claassen I; Natih K; Klinkenberg D; Donnelly CA; Koch G; Boven M van

Estimation of transmission parameters of H5N1 avian influenza virus in chickens

PLoS Pathogens 2009; 5(1):e1000281

Bouwknegt M; Rutjes SA; Reusken CBEM;

Stockhofe-Zurwieden N; Frankena K; Jong

MCM de; Roda Husman AM de; Poel WHM van der

The course of hepatitis E virus infection in pigs after contact-infection and intravenous inoculation

BMC Vet Res 2009; 5:7

Boxman I; Dijkman R; Verhoef L; Maat A;

Dijk G van; Vennema H; Koopmans M

Norovirus on swabs taken from hands

illustrate route of transmission: a case study

J Food Prot 2009; 72(8):1753-5

Boxman IL; Dijkman R; Loeke NA te; Hagele G;

Tilburg JJ; Vennema H; Koopmans M

Environmental swabs as a tool in norovirus outbreak investigation, including outbreaks on cruise ships

J Food Prot 2009; 72(1):111-9

Broek IVF van den; Cleef BAGL van; Haenen A;

Broens EM; Wolf PJ van der; Broek MJM van

den; Huijsdens XW; Kluytmans JAJW;

Giessen AW van de; Tiemersma EW

Methicillin-resistant Staphylococcus aureus in people living and working in pig farms

Epidemiol Infect 2009; 137(5):700-8

Bronzwaer S; Hugas M; Collins JD; Newell DG; Robinson T; Makela P; Havelaar A
**EFSA's 12th Scientific Colloquium -
Assessing health benefits of controlling
Campylobacter in the food chain**
Int J Food Microbiol 2009; 131(2-3):284-5

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**Emergence of hepatitis C virus genotype 4:
phylogenetic analysis reveals three distinct
epidemiological profiles**
J Clin Microbiol 2009; 47(12):3832-8

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**The key events dose-response framework:
Its potential for application to foodborne
pathogenic microorganisms**
Crit Rev Food Sci Nutr 2009; 49(8):718-28

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Nontuberculous Mycobacteria, Zambia
Emerg Infect Dis 2009; 15(2):242-9

Buisman AM; Rond CGH de; Ozturk K; Hulscher HI ten; Binnendijk RS van
**Long-term presence of memory B-cells
specific for different vaccine components**
Vaccine 2009; 28(1):179-86

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The Beijing genotype is associated with

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tuberculosis in rural Vietnam**
Int J Tuberc Lung Dis 2009; 13(7):900-6

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and case notification rates, Rural Vietnam,
2003-2006**
Emerg Infect Dis 2009; 15(10):1570-7

Caccamo N; Guggino G; Meraviglia S; Gelsomino G; Carlo P di; Titone L; Bocchino M; Galati D; Matarese A; Nouta J; Klein MR; Salerno A; Sanduzzi A; Dieli F; Ottenhoff THM
**Analysis of Mycobacterium tuberculosis-
specific CD8 T-cells in patients with active
tuberculosis and in individuals with latent
infection**
PLoS One 2009; 4(5):e5528

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**Mycobacterium bovis and M. tuberculosis in
goats, Nigeria [Letter to the editor]**
Emerg Infect Dis 2009; 15(12):2066-7

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European best practice guidelines for cystic fibrosis neonatal screening

J Cyst Fibros 2009; 8(3):153-73

Ciancio BC; Meerhoff TJ; Kramarz P; Bonmarin I; Borgen K; Boucher CA; Buchholz U; Buda S; Dijkstra F; Dusman S; Duwe S; Hauge SH; Hungnes O; Meijer A; Mossong J; Paget WJ; Phin N; Sande M van der; Schweiger B; Nicoli A

Oseltamivir-resistant influenza A (H1N1) viruses detected in Europe during season 2007-8 had epidemiologic and clinical characteristics similar to co-circulating susceptible A (H1N1) viruses

Eurosurveillance 2009; 14(46)

Coupe VM; Ginkel J de; Melker HE de; Snijders PJ; Meijer CJ; Berkhof J
HPV16/18 vaccination to prevent cervical cancer in The Netherlands: model-based cost-effectiveness

Int J Cancer 2009; 124(4):970-8

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How to screen for cervical cancer after HPV16/18 vaccination in The Netherlands

Vaccine 2009; 27(37):5111-9

Crump JA; Ingen J van; Morrissey AB; Boeree MJ; Mavura DR; Swai B; Thielman NM; Bartlett JA; Grossman H; Maro VP; Soolingen D van

Invasive disease caused by nontuberculous mycobacteria, Tanzania

Emerg Infect Dis 2009; 15(1):53-5

Daha TJ; Bilkert-Mooiman MAJ; Ballemans C; Frijstein G; Keeman JN; Man RA de; Steenbergen JE van; Weers-Pothoff G; Zaaier HL

Hepatitis B virus infected health care workers in The Netherlands, 2000-2008

Eur J Clin Microbiol Infect Dis 2009; 28(9):1041-4

Dalla Costa ER; Ribeiro MO; Silva MSN; Arnold LS; Rostirolla DC; Cafrune PI; Espinoza RG; Palaci M; Telles MA; Ritacco V; Suffys PH; Lopes ML; Campelo CL; Miranda SS; Kremer K; Almeida da Silva PE; Souza Fonseca L de; Ho JL; Kritski AL; Rossetti MLR

Correlations of mutations in katG, oxyR-ahpC and inhA genes and in vitro susceptibility in Mycobacterium tuberculosis clinical strains segregated by spoligotype families from tuberculosis prevalent countries in South America

BMC Microbiol 2009; 9:39

Dam AP van; Weert A van; Harmanus C; Hovius KE; Claas EC; Reubsaet FA

Molecular characterization of Capnocytophaga canimorsus and other canine Capnocytophaga spp. and assessment by PCR of their frequencies in dogs

J Clin Microbiol 2009; 47(10):3218-25

Devaux I; Kremer K; Heersma H; Soolingen D van

Clusters of multidrug-resistant Mycobacterium tuberculosis cases, Europe

Emerg Infect Dis 2009; 15(7):1052-60

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Long-term trends in influenza-like illness and associated determinants in The Netherlands

Epidemiol Infect 2009; 137(4):473-9

Dool C van den; Bonten MJM; Hak E; Wallinga J

Modeling the effects of influenza vaccination of health care workers in hospital departments

Vaccine 2009; 27(44):6261-7

Dool C van den; Hak E; Bonten MJM; Wallinga J

A model-based assessment of oseltamivir prophylaxis strategies to prevent influenza in nursing homes

Emerg Infect Dis 2009; 15(10):1547-44

Duynhoven YTHP van; Isken LD; Borgen K; Besselse M; Soethoudt K; Haitsma O; Mulder B; Notermans DW; Jonge R de; Kock P; Pelt W van; Stenvers O

A prolonged outbreak of Salmonella Typhirium infection related to an uncommon vehicle: hard cheese made from raw milk

Epidemiol Infect 2009; 137(11):1548-57

Ensink JH; Hoek W van der

Implementation of the WHO guidelines for the safe use of wastewater in Pakistan: balancing risks and benefits

J Water Health 2009; 7(3):464-8

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An outbreak of non-typeable MRSA within a residential care facility

Eurosurveillance 2009; 14(1)

Farrington CP; Whitaker HJ; Wallinga J; Manfredi P

Measures of disassortativeness and their application to directly transmitted infections

Biometrical J 2009; 51(3):387-407

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Reubsat FAG; Sauerwein R; Meer JWM van der; Ven AJAM van der; Netea MG

Caspase-12 and the inflammatory response to Yersinia pestis

PLoS One 2009; 4(9):e6870

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Influenza virus resistance to oseltamivir: what are the implications?

Eur J Public Health 2009; 19(3):238-9

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J Clin Virol 2009; 46(4):341-4

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Internet-based monitoring of influenza-like illness in the general population: experience of five influenza seasons in the Netherlands

Vaccine 2009; 27(45):6353-7

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Fanoy EB; Teunis PFM; Linde R van der;
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Epidemiol Infect 2009; 137(12):1722-33

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Rat bite fever
Vet Microbiol 2009; 133(3):211-28

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Verheij RA; Sande MAB van der*
Time trends in primary-care morbidity, hospitalization and mortality due to pneumonia
Epidemiol Infect 2009; 137(10):1472-8

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Federighi M; Jonge R de*
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Curr Microbiol 2009; 58(2):134-8

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Mooi FR*
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Vaccine 2009; 27(13):1898-903

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Reusken CBEM*
Occurrence of methicillin-resistant *Staphylococcus aureus* in rats living on pig

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Prev Vet Med 2009; 91(2-4):270-3

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Daniels R; Nicoll A; Zambon M*
Start of the influenza season 2008-9 in Europe - increasing influenza activity moving from West to East dominated by A(H3N2)
Eurosurveillance 2009; 14(3)

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Math Biosc 2009; 221(1):11-25

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JAMA 2009; 301(10):1042-6

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Kroes ACM*
Prolonged influenza virus infection during lymphocytopenia and frequent detection of drug-resistant viruses
J Infect Dis 2009; 199(10):1435-41

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Rahamat-Langendoen JC; Mooi FR;
Melker HE de*
Seasonal patterns in time series of pertussis
Epidemiol Infect 2009; 137(10):1388-95

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Economic analysis of pertussis illness in the Dutch population: implications for current and future vaccination strategies

Vaccine 2009; 27(13):1932-7

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Nationwide outbreak of STEC O157 infection in the Netherlands, December 2008-January 2009: continuous risk of consuming raw beef products

Eurosurveillance 2009; 14(8)

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Prevalence of hepatitis E virus infection in liver transplant recipients

Liver Transpl 2009; 15(10):1225-8

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Alternative approaches to derive disability weights in injuries: do they make a difference?

Qual Life Res 2009; 18(5):657-65

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Mazzulli T; Timen A; Loon A van; Melker H de
Rubella outbreak in the Netherlands, 2004-2005: high burden of congenital infection and spread to Canada

Pediatr Infect Dis J 2009; 28(9):795-800

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Migrants and hepatitis B: new strategies for secondary prevention needed [Letter to the editor]

Eur J Public Health 2009; 19(4):439

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Eurosurveillance 2009; 14(15)

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BMC Microbiology 2009; 9:19

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Infect Immun 2009; 77(11):5097-106

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IgG responses after booster vaccination with different pertussis vaccines in Dutch children 4 years of age: effect of vaccine antigen content

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Decrease of hypervirulent *Clostridium difficile* PCR ribotype 027 in the Netherlands

Eurosurveillance 2009; 14(45)

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Evaluation of an in-house cat scratch disease IgM ELISA to detect *Bartonella henselae* in a routine laboratory setting

Eur J Clin Microbiol Infect Dis 2009; 28(2):147-52

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Molecular evolution of the two-component system BvgAS involved in virulence regulation in *Bordetella*

PLoS One 2009; 4(9):e6996

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Two outbreaks of campylobacteriosis associated with the consumption of raw cows' milk

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RIVM Annual Science Report 2009

Project coordination and final editing

RIVM Communications

Design

RIVM Publishing

Photo

Flip Franssen/Hollandse Hoogte

RIVM

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