

A black and white photograph of a snowy surface with several footprints. The footprints are arranged in a path, with one large footprint in the center and several smaller ones above and below it. The snow is bright and textured.

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Annual Science Report 2008

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Foreword

RIVM's 2008 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, ranging from reports and books to doctoral theses, both domestic and international in scope.

The current Science appendix lists all RIVM releases published over the course of 2008. With a total of 722 scientific publications over 2008, up from 654 in 2007, 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 2008.

Dr Marc J.W. Sprenger
Director-General

Research Output

Centre for Infectious
Disease Control

CIb

Research Papers (international, 196)

Akmatov MK; Kretzschmar M; Kramer A; Mikolajczyk RT

Timeliness of vaccination and its effects on fraction of vaccinated population

Vaccine 2008; 26(31):3805-11

Alamanza H; Cubillos C; Angulo I; Mateos F; Caston JR; Poel WHM van der; Vinje J;

Barcena J; Mena I

Self-assembly of the recombinant capsid protein of a swine norovirus into virus-like particles and evaluation of monoclonal antibodies cross-reactive with a human strain from genogroup II

J Clin Microbiol 2008; 46(12):3971-9

Alffenaar JWC; Vries PM de; Luijckx GJ;

Soolingen D van; Werf TS van der; Altena R van

Plasma and cerebrospinal fluid pharmacokinetics of moxifloxacin in a patient with

tuberculous meningitis

Antimicrob Agents Chemother 2008; 52(6):2293-5

Arkema JMS; Meijer A; Meerhoff TJ; Velden J van der; Paget WJ; European Influenza Surveillance Scheme (EISS)

Epidemiological and virological assessment of influenza activity in Europe, during the 2006-2007 winter

Eurosurveillance 2008; 13(34)

Arkema JMS; Meijer A; Paget WJ; Casteren V van; Hungnes O; Mazick A; Velden J van der

The influenza season has started in a number of European countries

Eurosurveillance 2008; 13(4)

Ashley EA; Pinoges L; Turyakira E; Dorsey G; Checchi F; Bukirwa H; Broek I van den; Zongo I;

Palma Urruta PP; Herp M van; Balkan S;

Taylor WR; Olliaro P; Guthmann JP

Different methodological approaches to the assessment of in vivo efficacy of three artemisinin-based combination antimalarial treatments for the treatment of uncomplicated falciparum malaria in African children

Malar J 2008; 7:154

Asselt ED van; Jong AEI de; Jonge R de;

Nauta MJ

Cross-contamination in the kitchen: estimation of transfer rates for cutting boards, hands and knives

J Appl Microbiol 2008; 105(5):1392-401

Baars J; Boon B; Wit JB de; Schutten M;

Steenbergen JE van; Garretsen HF; Mheen D van de

Drug users' participation in a free hepatitis B vaccination program: demographic, behavioral, and social-cognitive determinants

Substance Use & Misuse 2008; 43(14):2145-62

Banus S; Stenger RM; Gremmer ER; Dormans JAMA; Mooi FR; Kimman TG; Vandebriel RJ

The role of Toll-like receptor-4 in pertussis vaccine-induced immunity

BMC Immunology 2008; 9:21

Belkum A van; Melles DC; Peeters JK; Leeuwen WB van; Duijkeren E van; Huijsdens XW;

Spalburg E; Neeling A de; Verbrugh HA

Methicillin-resistant and -susceptible staphylococcus aureus sequence type 398 in pigs and humans

Emerg Infect Dis 2008; 14(3):479-83

Bentham BHB van; Vliet JA van

Reflections on an evaluation of the Dutch infectious diseases surveillance information system

Eurosurveillance 2008; 13(11)

Berends IMGA; Graat EAM; Swart WAJM;

Weber MF; Giessen AW van de; Lam TJGM;

Heuvelink AE; Weering HJ van

Prevalence of VTEC O157 in dairy and veal herds and risk factors for veal herds

Prev Vet Med 2008; 87(3-4):301-10

Bergmans AMC; Schouls LM; Ent M van der;

Klaassen A; Boehm N; Wintermans RGF

Validation of PCR-reverse line blot, a method for rapid detection and identification of nine dermatophyte species in nail, skin and hair samples

Clin Microbiol Infect 2008; 14(8):778-88

Bernard H; Schwarz NG; Melnic A; Bucov V;

Caterinciu N; Pebody RG; Mulders M;

Aidyralieva C; Hahne S

Mumps outbreak ongoing since october

2007 in the republic of Moldova

Eurosurveillance 2008; 13(13)

Bertrand S; Rimhanen-Finne R; Weill FX;

Rabsch W; Thornton L; Perevoscikovs J; Pelt W van; Heck M

Salmonella infections associated with reptiles: the current situation in Europe

Eurosurveillance 2008; 13(24)

Beyersmann J; Gastmeier P; Grundmann H;

Barwolff S; Geffers C; Behnke M; Ruden H;

Schumacher M

Transmission-associated nosocomial infections: prolongation of intensive care unit stay and risk factor analysis using multistate models

Am J Infect Control 2008; 36(2):98-103

Bezemer D; Sighem A van; Wolf F de;

Cornelissen M; Kuyl AC van der; Jurriaans S;

Hoek L van der; Prins M; Coutinho RA;

Lukashov VV

Combination antiretroviral therapy failure and HIV super-infection

AIDS 2008; 22(2):309-11

Bezemer D; Wolf F de; Boerlijst MC; Sighem A van; Hollingsworth TD; Prins M; Geskus RB;

Gras I; Coutinho RA; Fraser C

A resurgent HIV-1 epidemic among men who have sex with men in the era of potent antiretroviral therapy

AIDS 2008; 22:1071-7

Bij AK van der; Dukers NH; Coutinho RA;

Fennema HS

Low HIV-testing rates and awareness of HIV infection among high-risk heterosexual STI

clinic attendees in The Netherlands

Eur J Public Health 2008; 18(4):376-9

Binnendijk RS van; Hahne S; Timen A; Kempen G van; Kohl RHG; Boot HJ; Wolthers KC; Wetsteijn JCFM; Vries A de; Westert K; Brown KE; Swart RL de

Air travel as a risk factor for introduction of measles in a highly vaccinated population

Vaccine 2008; 26(46):5775-7

Boer JW den; Bruin JP; Verhoef LPB; Zwaluw K van der; Jansen R; Yzerman EPF

Genotypic comparison of clinical Legionella isolates and patient-related environmental isolates in The Netherlands, 2002-2006

Clin Microbiol Infect 2008; 14(5):459-66

Boer JW den; Coutinho RA; Yzerman EPF; Sande MAB van der

Use of surface water in drinking water production associated with municipal Legionnaires' disease incidence

J Epidemiol Community Health 2008; 62(4):e1

Boot HJ; Cremer J; Koedijk FDH; Ballegooijen WM van; Op de Coul ELM
Improved tracing of hepatitis B virus transmission chains by phylogenetic analysis based on C region sequences
J Med Virol 2008; 80(2):233-41

Boot R; Berg L van de; Reubsat FAG; Vlemminx MJ

Positive streptococcus moniliformis PCR in guinea pigs likely due to Leptotrichia spp.

Vet Microbiol 2008; 128(3-4):395-9

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

Antimicrobial resistance in invasive strains of Escherichia coli from southern and eastern Mediterranean laboratories

Clin Microbiol Infect 2008; 14(8):789-96

Borgen K; Herremans T; Duizer E; Vennema H; Rutjes S; Bosman A; Roda Husman AM de; Koopmans M

Non-travel related Hepatitis E virus genotype 3 infections in the Netherlands; a case series 2004-2006

BMC Infect Dis 2008; 8:61

Borgen K; Koster B; Meijer H; Kuyvenhoven V; Sande M van der; Cobelens F

Evaluation of a large-scale tuberculosis contact investigation in the Netherlands

Eur Respir J 2008; 32(2):419-25

Bouwknegt M; Engel B; Herremans MMPT; Widdowson MA; Worm HC; Koopmans MPG; Frankena K; Roda Husman AM de; Jong MCM de; Poel WHM van der

Bayesian estimation of hepatitis E virus seroprevalence for populations with different exposure levels to swine in The Netherlands

Epidemiol Infect 2008; 136(4):567-76

Bouwknegt M; Frankena K; Rutjes SA; Wellenberg GJ; Roda Husman AM; Poel WH van der; Jong MC de

Estimation of hepatitis E virus transmission among pigs due to contact-exposure

Vet Res 2008; 39(5):40

Boven M van; Klinkenberg D; Pen I; Weissing FJ; Heesterbeek H

Self-interest versus group-interest in antiviral control

PLoS ONE 2008; 3(2):e1558

Bruijnesteijn van Coppentraet LES; Haas PEW de; Lindeboom JA; Kuijper EJ; Soolingen D van Lymphadenitis in children is caused by Mycobacterium avium hominissuis and not related to 'bird tuberculosis'

Eur J Clin Microbiol Infect Dis 2008; 27(4):293-9

Buijtsels PCAM; Sande WWJ van de; Parkinson S; Petit PLC; Sande MAB van der; Soolingen D van; Verbrugh HA; Belkum A van

Polymorphism in CC-chemokine ligand 2 associated with tuberculosis in Zambia

Int J Tuberc Lung Dis 2008; 12(12):1485-8

Buijtsels PCAM; Willemse-Erix HFM; Petit PLC; Endtz HP; Puppels GJ; Verbrugh HA; Belkum A van; Soolingen D van; Maquelin K

Rapid identification of mycobacteria by Raman spectroscopy

J Clin Microbiol 2008; 46(3):961-5

Buisman AM; Abbink F; Schepp RM; Sonsma JAJ; Herremans T; Kimman TG
Preexisting poliovirus-specific IgA in the circulation correlates with protection against virus excretion in the elderly
J Infect Dis 2008; 197(1):698-706

Caws M; Thwaites G; Dunstan S; Hawn TR; Thi Ngoc Lan N; Thuong Thuong NT; Stepniewska K; Huyen MNT; Ban ND; Loc TH;

Gagneux S; Soolingen D van; Kremer K; Sande M van der; Small P; Anh PTH; Chinh NT; Quy HT; Duyen NTH; Tho DQ; Hieu NT; Torok E; Hien TT; Dung NH; Nhu NTQ; Duy PM; Chau NVV; Farrar J

The influence of host and bacterial genotype on the development of disseminated disease with Mycobacterium tuberculosis

Plos Pathogens 2008; 4(3):e1000034

Croci L; Dubois E; Cook N; Medici D de; Schultz AC; China B; Rutjes SA; Hoorfar J; Poel WHM van der

Current methods for extraction and concentration of enteric viruses from fresh fruit and vegetables: towards international standards.

Food Anal Methods 2008; 1:73-84

David S; Vermeer-de Bondt PE; Maas NAT van der

Reactogenicity of infant whole cell pertussis combination vaccine compared with acellular pertussis vaccines with or without simultaneous pneumococcal vaccine in the Netherlands

Vaccine 2008; 26(46):5883-7

Derks TGJ; Boer TS; Assen A van; Bos T; Ruiters J; Waterham HR; Niezen-Koning KE; Wanders RJA; Rondeel JMM; Loeber JG; Kate LP ten; Smit GPA; Reijngoud DJ

Neonatal screening for medium-chain acyl-CoA dehydrogenase (MCAD) deficiency in The Netherlands: the importance of enzyme analysis to ascertain true MCAD deficiency
J Inherit Metab Dis 2008; 31(1):88-96

Donoso Mantke O; Vaheiri A; Ambrose H; Koopmans M; Ory F de; Zeller H; Beyrer K; Windorfer A; Niedrig M
Analysis of the surveillance situation for viral encephalitis and meningitis in Europe
 Eurosurveillance 2008; 13(3)

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

The effects of influenza vaccination of health care workers in nursing home: insights from a mathematical model
 PLoS Med 2008; 5(10):e200

Dool C van den; Hak E; Wallinga J; Loon AM van; Lammers JWJ; Bonten MJM
Symptoms of influenza virus infection in hospitalized patients
 Infect Control Hosp Epidemiol 2008; 29(4):314-9

Doorduyn Y; Hofhuis A; Jager CM de; Zwaluw WK van der; Notermans DW; Pelt W van
Salmonella typhimurium outbreaks in the Netherlands in 2008
 Eurosurveillance 2008; 13(44)

Doorduyn Y; Pelt W van; Siezen CLE; Horst F van der; Duynhoven YTHP van; Hoebee B; Janssen R
Novel insight in the association between salmonellosis or campylobacteriosis and chronic illness, and the role of host genetics in susceptibility to these diseases
 Epidemiol Infect 2008; 136(9):1225-34

Duijkeren E van; Ikawaty R; Broekhuizen-Stins MJ; Jansen MD; Spalburg EC; Neeling AJ de; Allaart JG; Nes A van; Wagenaar JA; Fluit AC

Transmission of methicillin-resistant Staphylococcus aureus strains between different kinds of pig farms
 Vet Microbiol 2008; 126(4):383-9

Duizer E; Kroneman A; Siebenga J; Verhoef L; Vennema H; Koopmans M; the FBVE network
Typing database for noroviruses
 Eurosurveillance 2008; 13(19)

Duynhoven YTHP van; Friesema IHM; Schuurman T; Roovers A; Zwet AA van; Sabbe LJM; Zwaluw WK van der; Notermans DW; Mulder B; Hannen EJ; Heilmann FGC; Buiting A; Jansen R; Kooistra-Smid AMD
Prevalence, characterisation and clinical profiles of Shiga toxin-producing Escherichia coli in the Netherlands
 Clin Microbiol Infect 2008; 14(5):437-45

El-Sayed N; El-Gamal Y; Abbassy AA; Seoud I; Salama M; Kandeel A; Hossny E; Shawky A; Hussein HA; Pallansch MA; Avoort HGAM van der; Burton AH; Sreevatsava M; Malankar P; Wahdan MJ; Sutter RW
Monovalent type 1 oral poliovirus vaccine in newborns
 N Engl J Med 2008; 359(16):1655-65

Evers EG; Fels-Klerx HJ van der; Nauta MJ; Schijven JF; Havelaar AH
Campylobacter source attribution by exposure management
 Int J Risk Assess Manag 2008; 8(1-2):174-90

Ewijk BE van; Zalm MM van der; Wolfs TF; Fleer A; Kimpfen JL; Wilbrink B; Ent CK van der
Prevalence and impact of respiratory viral infections in young children with cystic

fibrosis: prospective cohort study
 Pediatrics 2008; 122(6):1171-6

Falkingham JO; Iseman MD; Haas P; Soolingen D van

Mycobacterium avium in a shower linked to pulmonary disease
 J Water Health 2008; 6(2):209-13

Fennelly NK; Sistas F; Higgins SC; Ross PJ; Heide H van der; Mooi FR; Boyd A; Mills KHG
Bordetella pertussis expresses a functional type III secretion system that subverts protective innate and adaptive immune responses
 Infect Immun 2008; 76(3):1257-66

Foppen JWA; Liem Y; Schijven J
Effect of humic acid on the attachment of Escherichia coli in columns of goethite-coated sand
 Water Res 2008; 42(1-2):211-9

Friesema I; Sigmundsdottir G; Zwaluw K van der; Heuvelink A; Schimmer B; Jager C de; Rump B; Briem H; Hardardottir H; Atladottir A; Gudmundsdottir E; Pelt W van
An international outbreak of Shiga toxin-producing Escherichia coli O157 infection due to lettuce, September-October 2007
 Eurosurveillance 2008; 13(50)

Gageldonk PGM van; Schaijk FG van; Klis FR van der; Berbers GAM
Development and validation of a multiplex immunoassay for the simultaneous determination of serum antibodies to Bordetella pertussis, diphtheria and tetanus
 J Immunol Meth 2008; 335(1-2):79-89

Garenaux A; Jugiau F; Rama F; Jonge R de; Denis M; Federighi M; Ritz M
Survival of Campylobacter jejuni strains from different origins under oxidative stress conditions: effect of temperature
 Curr Microbiol 2008; 56(4):293-7

Gibson AL; Huard RC; Gey van Pittius NC; Lazzarini LCO; Driscoll J; Kurepina N; Zozio T; Sola C; Spindola SM; Kritski AL; Fitzgerald D; Kremer K; Mardassi H; Chitale P; Brinkworth J; Garcia de Viedma D; Gicquel B; Pape JW; Soolingen D van; Kreiswirth BN; Warren RM; Helden PD van; Rastogi N; Suffys PN; Lapa e Silva J; Ho JL
Application of sensitive and specific molecular methods to uncover global dissemination of the major RD10 sublineage of the Latin American-Mediterranean Mycobacterium tuberculosis spoligotype family
 J Clin Microbiol 2008; 46(4):1259-67

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Emergence of Clostridium difficile infection due to a new hypervirulent strain, polymerase chain reaction Ribotype 078
 Clin Infect Dis 2008; 47(9):1162-70

Goorhuis A; Debast SB; Leengoed LAMG van; Harmanus C; Notermans DW; Bergwerff AA; Kuijper EJ
Clostridium difficile PCR ribotype 078: an emerging strain in humans and in pigs?
 J Clin Microbiol 2008; 46(3):1157-8

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Transmission of highly pathogenic avian influenza H5N1 virus in Pekin ducks is significantly reduced by a genetically distant H5N2 vaccine
Virology 2008; 382(1):91-7
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Spatial effects of mosquito bednets on child mortality
BMC Public Health 2008; 8:356
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Pre-admission clinical course of meningococcal disease and opportunities for the earlier start of appropriate intervention: a prospective epidemiological study on 752 patients in the Netherlands, 2003-2005
Eur J Clin Microbiol Infect Dis 2008; 27(10):985-92
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Impact of acellular pertussis preschool booster vaccination on disease burden of pertussis in the Netherlands
Pediatr Infect Dis J 2008; 27(3):218-23
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Chronic hepatitis E virus infection in liver transplant recipients
Liver Transpl 2008; 14(4):547-53
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Disability adjusted life years and minimal disease: application of a preference-based relevance criterion to rank enteric pathogens
Population Health Metrics 2008; 6:7
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Cleavage of group 1 coronavirus spike proteins: how furin cleavage is traded off against heparan sulfate binding upon cell culture adaptation
J Virol 2008; 82(12):6078-83
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Universal hepatitis B vaccination. Comment on: Zuckerman J, Hattum J van, Cafferkey M [Letter to the editor]
Lancet Infect Dis 2008; 8(2):87-8
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Hepatitis B virus transmission in The Netherlands: a population-based, hierarchical case-control study in a very low-incidence country
Epidemiol Infect 2008; 136(2):184-95
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Cytokine expression in the brains of Toxocara canis-infected mice
Parasite Immunol 2008; 30(3):181-5
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Mycobacterial T cell responses in HIV-infected patients with advanced immunosuppression
J Infect Dis 2008; 197(2):295-9
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Challenges of quantitative microbial risk assessment at EU level
Trends Food Sci Technol 2008; 19(suppl 1):22-9
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Attribution of foodborne pathogens using structured expert elicitation
Foodborne Pathog Dis 2008; 5(5):649-59
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PLoS ONE 2008; 3(3):e1898
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High functional diversity in Mycobacterium tuberculosis driven by genetic drift and human demography
PLoS Biol 2008; 6(12):e311
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Antibody responses to defined regions of the Bordetella pertussis virulence factor pertactin
Scand J Infect Dis 2008; 40(2):94-104
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The rising incidence and clinical relevance of Mycobacterium malmoense: a review of the literature
Int J Tuberc Lung Dis 2008; 12(9):987-93
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Costs and effects of prenatal screening methods for down syndrome and neural tube defects
Community Genet 2008; 11(6):359-67
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Methicillin-resistant staphylococcus aureus in a beauty salon, the Netherlands
Emer Infect Dis 2008; 14(11):1797-9
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Eur Respir J 2008; 31(1):106-9
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Evidence-based biosafety: a review of the principles and effectiveness of microbiological containment measures
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Surgical site infection surveillance and the predictive power of the National Nosocomial Infection Surveillance index as compared with alternative determinants in The Netherlands
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J Med Microbiol 2008; 57(6):709-16
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Progress in understanding norovirus epidemiology
Curr Opin Infect Dis 2008; 21(5):544-52
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