



National Institute for Public Health  
and the Environment  
*Ministry of Health, Welfare and Sport*

# RIVM Annual

RIVM Annual Science Report 2010

# Science

# Report 2010



# Annual Science Report 2010



# Foreword

RIVM's 2010 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 2010, ranging from papers, bookchapters to doctoral theses. With a total of 778 scientific publications over 2010, up from 768 in 2009, 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 2010.

Prof. André van der Zande  
Director-General RIVM



# Research Output

Centre for Infectious Disease Control  
CIb

## Research papers (international, 260)

Abadia, E.; Zhang, J.; dos Vultos, T.; Ritacco, V.; Kremer, K.; Aktas, E.; Matsumoto, T.; Refregier, G.; van Soolingen, D.; Gicquel, B.; Sola, C.

**Resolving lineage assignment on Mycobacterium tuberculosis clinical isolates classified by spoligotyping with a new high-throughput 3R SNPs based method**

Infect Genet Evol 2010; 10(7):1066-74

Agonafir, M.; Lemma, E.; Wolde-Meskel, D.; Goshu, S.; Santhanam, A.; Girmachew, F.; Demissie, S.; Getahun, M.; Gebeyehu, M.; van Soolingen, D.

**Phenotypic and genotypic analysis of multidrug-resistant tuberculosis in Ethiopia**

Int J Tuberc Lung Dis 2010; 14(10):1259-65

Alffenaar, J.W.; van Altena, R.; Harmelink, I.M.; Filguera, P.; Molenaar, E.; Wessels, A.M.; van Soolingen, D.; Kosterink, J.G.; Uges, D.R.; van der Werf, T.S.

**Comparison of the pharmacokinetics of two dosage regimens of linezolid in multidrug-resistant and extensively drug-resistant tuberculosis patients**

Clin Pharmacokinet 2010; 49(8):559-65

Al-Hajoj, S.A.M.; Akkerman, O.; Parwati, I.; Al-Gamdi, S.; Rahim, Z.; van Soolingen, D.; van Ingen, J.; Supply, P.; van der Zanden, A.G.M.

**Microevolution of Mycobacterium tuberculosis in a tuberculosis patient**

J Clin Microbiol 2010; 48(10):3813-6

Amaral, L.; Boeree, M.J.; Gillespie, S.H.; Udawadia, Z.F.; van Soolingen, D.

**Thioridazine cures extensively drug-resistant tuberculosis (XDR-TB) and the need for global trials is now!**

Int J Antimicrob Agents 2010; 35(6):524-6

Atchison, C.J.; Tam, C.C.; Hajat, S.; van Pelt, W.; Cowden, J.M.; Lopman, B.A.

**Temperature-dependent transmission of rotavirus in Great Britain and The Netherlands**

Proc Biol Sci 2010; 277(1683):933-42

Attema, A.E.; Lugner, A.K.; Feenstra, T.L.

**Investment in antiviral drugs: a real options approach**

Health Econ 2010; 19(10):1240-54

Ayele, W.; Mekonnen, Y.; Messele, T.; Mengistu, Y.; Tsegaye, A.; Bakker, M.; Berkhout, B.; Dorigo-Zetsma, W.; Wolday, D.; Goudsmit, J.; Coutinho, R.A.; de Baar, M.; Paxton, W.A.; Pollakis, G.

**Differences in HIV type 1 RNA plasma load profile of closely related cocirculating Ethiopian subtype C strains: C and C'**

AIDS Res Hum Retroviruses 2010; 26(7):805-13

Baaten, G.G.; Roukens, A.H.; Geskus, R.B.; Kint, J.A.; Coutinho, R.A.; Sonder, G.J.; Hoek, A.

**Symptoms of infectious diseases in travelers with diabetes mellitus: a prospective study with matched controls**

J Travel Med 2010; 17(4):256-63



Baaten, G.G.; Sonder, G.J.B.; Schim van der Loeff, M.F.; Coutinho, R.A.; Hoek, A.

**Fecal-orally transmitted diseases among travelers are decreasing due to better hygienic standards at travel destination**  
J Travel Med 2010; 17(5):322-8

Bart, M.J.; van Gent, M.; van der Heide, H.G.J.; Boekhorst, J.; Hermans, P.; Parkhill, J.; Mooi, F.R.  
**Comparative genomics of prevaccination and modern Bordetella pertussis strains**  
BMC Genomics 2011; 11:627

Berkhof, J.; Bogaards, J.A.  
**Vaccination against human papillomavirus types 16 and 18: the impact on cervical cancer**  
Future Oncol 2010; 6(12):1817-21

Berkhof, J.; Coupe, V.M.; Bogaards, J.A.; van Kemenade, F.J.; Helmerhorst, T.J.; Snijders, P.J.; Meijer, C.J.

**The health and economic effects of HPV DNA screening in the Netherlands**  
Int J Cancer 2010; 127(9):2147-58

Bezemer, D.; van Sighem, A.; Lukashov, V.V.; van der Hoek, L.; Back N, ; Schuurman, R.; Boucher, C.A.B.; Claas, E.C.J.; Boerlijst, M.C.; Coutinho, R.A.; de Wolf, F.; for the ATHENA observational cohort

**Transmission networks of HIV-1 among men having sex with men in the Netherlands**  
AIDS 2010; 24(2):271-82

Boerlijst, M.C.; van Ballegooijen, W.M.  
**Spatial pattern switching enables cyclic**

**evolution in spatial epidemics**  
PLoS Comput Biol 2010; 6(12):e1001030

Bofill-Mas, S.; Calgua, B.; Clemente-Casares, P.; la Rosa, G.; Iaconelli, M.; Muscillo, M.; Rutjes, S.; de Roda Husman, A.M.; Grunert, A.; Verani, M.; Calvo, M.; Wyn-Jones, P.; Girones, R.

**Quantification of human adenoviruses in European recreational waters**  
Food Environ Virol 2010; 2(2):101-9

Bogaards, J.A.; Xiridou, M.; Coupe, V.M.H.; Meijer, C.J.L.M.; Wallinga, J.; Berkhof, J.

**Model-based estimation of viral transmissibility and infection-induced resistance from the age-dependent prevalence of infection for 14 high-risk types of human papillomavirus**  
Am J Epidemiol 2010; 171(7):817-25

Boot, H.J.; Hahné, S.; Cremer, J.; Wong, A.; Boland, G.; van Loon, A.M.

**Persistent and transient hepatitis B virus (HBV) infections in children born to HBV-infected mothers despite active and passive vaccination**  
J Viral Hepat 2010; 17(12):872-8

Borgdorff, M.W.; van den Hof, S.; Kremer, K.; Verhagen, L.; Kalisvaart, N.; Erkens, C.; van Soolingen, D.

**Progress towards tuberculosis elimination: secular trend, immigration and transmission**  
Eur Respir J 2010; 36(2):339-47

Bos, M.E.H.; te Beest, D.E.; van Boven, M.; Robert-Du Ry van Beest Holle, M.; Meijer, A.; Bosman, A.; Mulder, Y.M.; Koopmans, M.P.G.;

Stegeman, A.

High probability of avian influenza virus (H7N7) transmission from poultry to humans active in disease control on infected farms

J Infect Dis 2010; 201(9):1390-6

Bosch, T.; de Neeling, A.J.; Schouls, L.M.; van de Zwaluw, K.W.; Kluytmans, J.A.J.W.; Grundmann, H.; Huijsdens, X.W.

PFGE diversity within the methicillin-resistant *Staphylococcus aureus* clonal lineage ST398 BMC

Microbiol 2010; 10:40

Bottema, R.W.; Kerkhof, M.; Reijmerink, N.E.; Koppelman, G.H.; Thijs, C.; Stelma, F.F.; Smit, H.A.; Brunekreef, B.; van Schayck, C.P.; Postma, D.S.

X-chromosome Forkhead Box P3 polymorphisms associate with atopy in girls in three Dutch birth cohorts

Allergy 2010; 65(7):865-74

Bouva, M.J.; Mohrmann, K.; Brinkman, H.B.J.M.; Kemper-Proper, E.A.; Elvers, B.; Loeber, J.G.; Verheul, F.E.A.M.; Giordano, P.C.

Implementing neonatal screening for haemoglobinopathies in the Netherlands

J Med Screen 2010; 17(2):58-65

Brienen, N.C.; Timen, A.; Wallinga, J.; van Steenbergen, J.E.; Teunis, P.F.

The effect of mask use on the spread of influenza during a pandemic

Risk Anal 2010; 30(8):1210-8

Brockhoff, H.J.; Mollema, L.; Sonder, G.J.B.; Postema, G.A.; van Binnendijk, R.S.; Kohl, R.H.G.;

de Melker, H.E.; Hahné, S.J.M.

Mumps outbreak in a highly vaccinated student population, The Netherlands, 2004  
Vaccine 2010; 28(17):2932-6

Budding, A.E.; Grasman, M.E.; Lin, F.; Bogaards, J.A.; Soeltan-Kaersenhout, D.J.; Vandenbroucke-Grauls, C.M.J.E.; van Bodegraven, A.A.; Savelkoul, P.H.M.

IS-pro: high-throughput molecular fingerprinting of the intestinal microbiota  
FASEB J 2010; 24(11):4556-64

Buijtsels, P.C.A.M.; Iseman, M.D.; Parkinson, S.; de Graaff, C.S.; Verbrugh, H.A.; Petit, P.L.C.; van Soelingen, D.

Misdiagnosis of tuberculosis and the clinical relevance of non-tuberculosis mycobacteria in Zambia

Asian Pac J Trop Med 2010; 3(5):386-91

Buijtsels, P.C.A.M.; van der Sande, M.A.B.; Parkinson, S.; Verbrugh, H.A.; Petit, P.L.C.; van Soelingen, D.

Isolation of non-tuberculous mycobacteria at three rural settings in Zambia; a pilot study  
Clin Microbiol Infect 2010; 16(8):1142-8

Bults, M.; Beaujean, D.J.M.A.; de Zwart, O.; Kok, G.; van Empelen, P.; van Steenbergen, J.E.; Richardus, J.H.; Voeten, H.A.C.M.

Perceived risk, anxiety, and behavioural responses of the general public during the early phase of the influenza A (H1N1) pandemic in the Netherlands: results of three consecutive online surveys

BMC Public Health 2010; 11:2

Buu, T.N.; Huyen, M.N.T.; van Soolingen, D.; Lan, N.T.N.; Quy, H.T.; Tiemersma, E.W.; Borgdorff, M.W.; Cobelens, F.G.J.

**The Mycobacterium tuberculosis Beijing genotype does not affect tuberculosis treatment failure in Vietnam**

Clin Infect Dis 2010; 51(8):879-86

Buu, T.N.; van Soolingen, D.; Huyen, M.N.T.; Lan, N.N.T.; Quy, H.T.; Tiemersma, E.W.; Borgdorff, M.W.; Cobelens, F.G.J.

**Tuberculosis acquired outside of households, Rural Vietnam**

Emerg Infect Dis 2010; 16(9):1466-8

Caccio, S.M.; Sprong, H.

**Giardia duodenalis: genetic recombination and its implications for taxonomy and molecular epidemiology**

Exp Parasitol 2010; 124(1):107-12

Cadmus, S.I.; Okoje, V.N.; Taiwo, B.O.; van Soolingen, D.

**Exposure of dentists to Mycobacterium tuberculosis, Ibadan, Nigeria**

Emerg Infect Dis 2010; 16(9):1479-81

Cadmus, S.I.B.; Yakubu, M.K.; Magaji, A.A.; Jenkins, A.O.; van Soolingen, D.

**Mycobacterium bovis, but also M. africanum present in raw milk of pastoral cattle in north-central Nigeria**

Trop Anim Health Prod 2010; 42(6):1047-8

Christerson, L.; de Vries, H.J.C.; de Barbeyrac, B.; Gaydos, C.A.; Henrich, B.; Hoffmann, S.; Schachter, J.; Thorvaldsen, J.; Vall-Mayans, M.; Klint, M.; Herrmann, B.; Morr e, S.A.

**Typing of lymphogranuloma venereum chlamydia trachomatis strains**

Emerg Infect Dis 2010; 16(11):1777-9

Chutinimitkul, S.; Herfst, S.; Steel, J.; Lowen, A.C.; Ye, J.; van Riel, D.; Schrauwen, E.J.A.; Bestebroer, T.M.; Koel, B.; Jonges, M.; Meijer, A.; Koopmans, M.; et al.,

**Virulence-associated substitution D222G in the hemagglutinin of 2009 pandemic influenza A(H1N1) virus affects receptor binding**

J Virol 2010; 84(22):11802-13

Cleef, B.A.; Verkade, E.J.M.; Wulf, M.W.; Buiting, A.G.; Voss, A.; Huijsdens, X.W.; van Pelt, W.; Mulders, M.N.; Kluytmans, J.A.

**Prevalence of livestock-associated MRSA in communities with high pig-densities in The Netherlands**

PLoS ONE 2010; 5(2):e9385

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**High prevalence of nasal MRSA carriage in slaughterhouse workers in contact with live pigs in the Netherlands**

Epidemiol Infect 2010; 138(5):756-63

Cohen Stuart, J.; Dierikx, C.; Al Naiema, N.; Karczmarek, A.; van Hoek, A.H.A.M.; Vos, P.; Fluit, A.C.; Scharringa, J.; Duim, B.; Mevius, D.; Leverstein-van Hall, M.A.

**Rapid detection of TEM, SHV and CTX-M extended-spectrum beta-lactamases in Enterobacteriaceae using ligation-mediated**

ed amplification with microarray analysis  
J Antimicrob Chemother 2010; 65(7):1377-81

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Guideline for phenotypic screening and confirmation of carbapenemases in Enterobacteriaceae  
Int J Antimicrob Agents 2010; 36(3):205-10

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Sex Transm Infect 2010; 86(6):427-32

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Nat Genet 2010; 42(6):498-503

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An international comparison of web-based reporting about health care quality: content analysis  
J Med Internet Res 2010; 12(2):e8

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Evaluation of a rapid molecular screening approach for the detection of toxigenic Clostridium difficile in general and subsequent identification of the tcdC delta117 mutation in human stools

J Microbiol Methods 2010; 83(1):59-65

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Seroprevalence of pertussis in the Netherlands: evidence for increased circulation of Bordetella pertussis  
PLoS One 2010; 5(12):e14183

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Pertussis disease burden in the household: how to protect young infants  
Clin Infect Dis 2010; 50(10):1339-45

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Disseminated Mycobacterium avium subsp. avium infection in a cat, the Netherlands [Letter to the editor]  
Vet Microbiol 2010; 144(3-4):527-9

de Jonge, R.; Verdier, J.E.; Havelaar, A.H.  
Prevalence of methicillin-resistant Staphylococcus aureus amongst professional meat handler in the Netherlands, March-July 2008  
Eurosurveillance 2010; 15(46):pii=19712

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Time-kill kinetics of anti-tuberculosis drugs, and emergence of resistance, in relation to metabolic activity of

### **Mycobacterium tuberculosis**

J Antimicrob Chemother 2010; 65(12):2582-9

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### **Immunity against Neisseria meningitidis serogroup C in the Dutch population before and after introduction of the meningococcal C conjugate vaccine**

PLoS One 2010; 5(8):e2144

*de Vries, E.; Jonges, M.; Herfst, S.; Maaskant, J.; van der Linden, A.; Guldemeester, J.; Aron, G.I.; Bestebroer, T.M.; Koopmans, M.; Meijer, A.; Fouchier, R.A.M.; Osterhaus, A.D.M.E.; Boucher, C.A.; Schutten, M.*

### **Evaluation of a rapid molecular algorithm for detection of pandemic influenza A (H1N1) 2009 virus and screening for a key oseltamivir resistance (H275Y) substitution in neuraminidase**

J Clin Virol 2010; 47(1):34-7

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### **Factors associated with the high tuberculosis case rate in an urban area**

Int J Tuberc Lung Dis 2010; 14(7):859-65

*de Vries, H.J.C.; Smelov, V.; Ouburg, S.; Pleijster, J.; Geskus, R.B.; Speksnijder, A.G.C.L.; Fennema, J.S.A.; Morre, S.A.*

### **Anal lymphogranuloma venereum infection screening with IgA anti-chlamydia trachomatis-specific major outer**

### **membrane protein serology**

Sex Transm Dis 2010; 37(12):789-95

*de Vries, R.; Kretzschmar, M.; Schellekens, J.F.P.; Versteegh, F.G.A.; Westra, T.A.; Roord, J.J.; Postma, M.J.*

### **Cost-effectiveness of adolescent pertussis vaccination for the Netherlands: using an individual-based dynamic model**

PLoS One 2010; 5(10):e13392

*Devaux, I.; Kreidl, P.; Penttinen, P.; Salminen, M.; Zucs, P.; Ammon, A.; Bijkerk, P.; Meijer, A.*

### **Initial surveillance of 2009 influenza A(H1N1) pandemic in the European Union and European Economic Area, April - September 2009**

Eurosurveillance 2010; 15(49):pii=19740

*Devaux, I.; Manissero, D.; Fernandez de la Hoz, K.; Kremer, K.; van Soelingen, D.*

### **Surveillance of extensively drug-resistant tuberculosis in Europe, 2003-2007**

Eurosurveillance 2010; 15(11):pii=19518

*di Giovine, P.; Pinto, A.; Olander, R.-M.; Sesardic, D.; Stickings, P.; Berbers, G.; Neal, S.; Efstratiou, A.; Paberza, R.; Dauksiene, S.; Bujko, M.; Detcheva, A.; Joks, U.; Levent, B.; von Hunolstein, C.*

### **External quality assessment for the determination of diphtheria antitoxin in human serum**

Clin Vaccine Immunol 2010; 17(8):1282-90

*Donker, T.; Wallinga, J.; Grundmann, H.*

### **Patient referral patterns and the spread of hospital-acquired infections through national health care networks**

PLoS Comput Biol 2010; 6(3):e1000715

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**Risk factors for indigenous *Campylobacter jejuni* and *Campylobacter coli* infections in The Netherlands: a case-control study**  
Epidemiol Infect 2010; 138(10):1391-404

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**The current state of introduction of human papillomavirus vaccination into national immunisation schedules in Europe: first results of the VENICE2 2010 survey**  
Eurosurveillance 2010; 15(47):pii=19730

Elberse, K.E.M.; Tcherniaeva, I.; Berbers, G.A.M.; Schouls, L.M.

**Optimization and application of a multiplex bead-based assay to quantify serotype-specific IgG against *Streptococcus pneumoniae* polysaccharides: response to the booster vaccine after immunization with the pneumococcal 7-valent conjugate vaccine**  
Clin Vaccine Immunol 2010; 17(4):674-82

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**Vaccine preventability of meningococcal clone, greater Aachen region, Germany**  
Emerg Infect Dis 2010; 16(3):465-72

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**A swift Quantitative Microbiological Risk Assessment (sQMRA) tool**  
Food Control 2010; 21(3):319-30

Evers, E.G.; Post, J.; Putirulan, F.F.; van der Wal, F.J.  
**Detection probability of *Campylobacter***  
Food Control 2010; 21(3):274-52

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**Molecular characteristics of "*Mycobacterium canettii*" the smooth *Mycobacterium tuberculosis* bacilli**  
Infect Genet Evol 2010; 10(8):1165-73

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**The effect of placental malaria infection on cord blood and maternal immunoregulatory responses at birth**  
Eur J Immunol 2010; 40(4):1062-72

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**Evaluation of the diversilab system for detection of hospital outbreaks of infections by different bacterial species**  
J Clin Microbiol 2010; 48(11):3979-89

Gandhi, N.R.; Nunn, P.; Dheda, K.; Schaaf, S.; Zignol, M.; van Soolingen, D.; Jensen, P.; Bayona, J.  
**Multidrug-resistant and extensively**

**drug-resistant tuberculosis: a threat to global control of tuberculosis**

Lancet 2010; 375(9728):1830-43

Gast, G.C.M.; Grobbee, D.E.; Smit, H.A.; Bueno de Mesquita, H.B.; Samsioe, G.N.; van der Schouw, Y.T.

**Menstrual cycle characteristics and risk of coronary heart disease and type 2 diabetes**

Fertil Steril 2010; 94(6):2379-81

Gerssen, A.; Pol-Hofstad, I.E.; Poelman, M.; Mulder, P.P.J.; van den Top, H.J.; Boer, J.

**Marine toxins: chemistry, toxicity, occurrence and detection, with special reference to the Dutch situation**

Toxins 2010; 2:878-904

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**Codon 24 (TAT>TAG) and codon 32 (ARG>AGC) (Hb rotterdam): two novel alpha2 gene mutations associated with mild alpha-Thalassemia found in the same family after newborn screening**

Hemoglobin 2010; 34(4):354-65

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**Distribution of vaccine/antivirals and the 'least spread line' in a stratified population**

J R Soc Interface 2010; 7(46):755-64

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**Distinct genotypic profiles of the two major clades of Mycobacterium africanum**

BMC Infect Dis 2010, 10:80

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**Geographic distribution of Staphylococcus aureus causing invasive infections in Europe: a molecular-epidemiological analysis**

PLoS Med 2010; 7(1):e1000215

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Eurosurveillance 2010; 15(46):pii=19711

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**Genetic basis of tetracycline resistance in Bifidobacterium animalis subsp. lactis**

Appl Environ Microbiol 2010; 76(10):3364-9

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J Virol 2010; 84(19):9695-708

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**Disease burden of post-infectious irritable bowel syndrome in The Netherlands**

Epidemiol Infect 2010; 138(11):1650-6

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**Measles outbreak, the Netherlands, 2008 [Letter to the editor]**

Emerg Infect Dis 2010; 16(3):567-9

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MEV

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