

Healthcare Associated Infections: MRSA

Value of Xpert MRSA/SA blood culture assay on the GeneXpert® Dx System for rapid detection of *Staphylococcus aureus* and coagulase-negative staphylococci in patients with staphylococcal bacteremia.

Biendo M, Mammeri H, Pluquet E, Guillon H, Rousseau F, Canarelli B, Belmekki M, Eb F.
Diagn Microbiol Infect Dis. 2013 Feb;75(2):139-143. Epub 2012 Dec 27.

Cost-effectiveness of supplementing a broth-enriched culture test with the Xpert methicillin-resistant *Staphylococcus aureus* (MRSA) assay for screening inpatients at high risk of MRSA.

Li J, Ulvin K, Biboh H, Kristiansen IS.
J Hosp Infect. 2012 Dec;82(4):227-33. Epub 2012 Oct 23.

Clinical utility of the Xpert MRSA assay for early detection of methicillin-resistant *Staphylococcus aureus*.

Oh AC, Lee JK, Lee HN, Hong YJ, Chang YH, Hong SI, Kim DH.
Mol Med Report. 2012 Oct 9. [Epub ahead of print]

Molecular epidemiology of methicillin-resistant *Staphylococcus aureus* isolates from patients newly identified as nasal carriers.

Weir SK, Fram J, Berg G, Kabbani D, Strymish J, Tang M, Fitzsimmons D, Brecher SM, Gupta K.
J Clin Microbiol. 2012 Oct;50(10):3283-6. Epub 2012 Jul 25.

Reduced costs for *Staphylococcus aureus* carriers treated prophylactically with mupirocin and chlorhexidine in cardiothoracic and orthopaedic surgery.

van Rijen MM, Bode LG, Baak DA, Kluytmans JA, Vos MC.
PLoS One. 2012;7(8):e43065. Epub 2012 Aug 14.

Using rapid diagnostic tests to optimize antimicrobial selection in antimicrobial stewardship programs.

Goff DA, Jankowski C, Tenover FC.
Pharmacotherapy. 2012 Aug;32(8):677-87.

Evaluation of rapid *mecA* gene detection versus standard culture in staphylococcal chronic prosthetic joint infections.

Titécat M, Loïez C, Senneville E, Wallet F, Dezèque H, Legout L, Migaud H, Courcol RJ.
Diagn Microbiol Infect Dis. 2012 Aug;73(4):318-21. Epub 2012 Jun 6.

Multicenter Evaluation of the LightCycler MRSA Advanced Test, the Xpert MRSA Assay, and MRSAselect Directly Plated Culture with Simulated Workflow Comparison for the Detection of Methicillin-Resistant *Staphylococcus aureus* in Nasal Swabs.

Arcenas RC, Spadoni S, Mohammad A, Kiechle FL, Walker K, Fader RC, Perdreau-Remington F, Osiecki J, Liesenfeld O, Hendrickson S, Rao A.
J Mol Diagn. 2012 Jul;14(4):367-75. Epub 2012 May 11.



Healthcare Associated Infections: MRSA (cont'd)

Impact of results of a rapid *Staphylococcus aureus* diagnostic test on prescribing of antibiotics for patients with clustered gram-positive cocci in blood cultures.

Davies J, Gordon CL, Tong SY, Baird RW, Davis JS.

J Clin Microbiol. 2012 Jun;50(6):2056-8. Epub 2012 Apr 4.

Quantification by Real-Time PCR Assay of *Staphylococcus aureus* Load: a Useful Tool for Rapidly Identifying Persistent Nasal Carriers.

Verhoeven PO, Grattard F, Carricajo A, Lucht F, Cazorla C, Garraud O, Pozzetto B, Berthelot P.

J Clin Microbiol. 2012 Jun;50(6):2063-5. Epub 2012 Apr 4.

Cepheid Xpert MRSA cycle threshold in discordant colonization results and as a quantitative measure of nasal colonization burden.

Stenehjem E, Rimland D, Crispell EK, Stafford C, Gaynes R, Satola SW.

J Clin Microbiol. 2012 Jun;50(6):2079-81. Epub 2012 Mar 21.

MRSA screening on a paediatric intensive care unit.

Gray J, Patel M, Turner H, Reynolds F.

Arch Dis Child. 2012 Mar;97(3):243-4. Epub 2010 Nov 16.

Costs and benefits of rapid screening of methicillin-resistant *Staphylococcus aureus* carriage in intensive care units: a prospective multicenter study.

Wassenberg M, Kluytmans J, Erdkamp S, Bosboom R, Buiting A, van Elzakker E, Melchers W, Thijsen S, Troelstra A, Vandenbroucke-Grauls C, Visser C, Voss A, Wolffs P, Wulf M, van Zwet T, de Wit A, Bonten M.

Crit Care. 2012 Feb 7;16(1).

Direct Detection of *Staphylococcus* Osteoarticular Infections by Use of Xpert MRSA/SA SSTI Real-Time PCR.

Dubouix-Bourandy A, de Ladoucette A, Pietri V, Mehdi N, Benzaquen D, Guinand R, Gandois JM.

J Clin Microbiol. 2011 Dec;49(12):4225-30. Epub 2011 Oct 12.

Validation and Implementation of the GeneXpert MRSA/SA Blood Culture Assay in a Pediatric Setting.

Spencer DH, Sellenriek P, Burnham CA.

Am J Clin Pathol. 2011 Nov;136(5):690-4.

Prevalence and Genetic Relatedness of Methicillin-Susceptible *Staphylococcus aureus* Isolates Detected by the Xpert MRSA Nasal Assay.

Arbefeville SS, Zhang K, Kroeger JS, Howard WJ, Diekema DJ, Richter SS.

J Clin Microbiol. 2011 Aug;49(8):2996-9. Epub 2011 Jun 15.

Evaluation of the Xpert™ MRSA/SA Blood Culture assay for the detection of *Staphylococcus aureus* including strains with reduced vancomycin susceptibility from blood culture specimens.

Kelley PG, Grabsch EA, Farrell J, Xie S, Montgomery J, Mayall B, Howden BP.

Diagn Microbiol Infect Dis. 2011 Jul;70(3):404-7. Epub 2011 Apr 15.



Healthcare Associated Infections: MRSA (cont'd)

Detection of *Staphylococcus aureus* resistant to methicillin (MRSA) by molecular biology (Cepheid GeneXpert IL, GeneOhm BD, Roche LightCycler, Hyplex Evigene I2A) versus screening by culture: Economic and practical strategy for the laboratory.

Laudat P, Demondion E, Jouannet C, Charron J, Chillou C, Salaun V, Mankikian B.
Pathol Biol (Paris). 2012 Jun;60(3):208-13. Epub 2011 Jul 5. French.

Rapid PCR detection of methicillin-resistant *Staphylococcus aureus* and methicillin-sensitive *S. aureus* samples from charcoal-containing blood culture bottles.

Ratnayake L, Olver WJ.
J Clin Microbiol. 2011 Jun;49(6):2382. Epub 2011 Mar 30.

Veterans Affairs initiative to prevent methicillin-resistant *Staphylococcus aureus* infections.

Jain R, Kralovic SM, Evans ME, Ambrose M, Simbartl LA, Obrosky DS, Render ML, Freyberg RW, Jernigan JA, Muder RR, Miller LJ, Roselle GA.
N Engl J Med. 2011 Apr 14;364(15):1419-30.

Interest of real-time PCR Xpert™ MRSA/SA on GeneXpert® DX System in the investigation of staphylococcal bacteremia.

Scanvic A, Courdavault L, Sollet JP, Le Turdu F.
Pathol Biol (Paris). 2011 Apr;59(2):67-72. Epub 2010 Sep 15. French.

An antimicrobial stewardship program's impact with rapid polymerase chain reaction methicillin-resistant *Staphylococcus aureus*/*S. aureus* blood culture test in patients with *S. aureus* bacteremia.

Bauer KA, West JE, Balada-Llasat JM, Pancholi P, Stevenson KB, Goff DA.
Clin Infect Dis. 2010 Nov 1;51(9):1074-80

Detection of methicillin-resistant *Staphylococcus aureus* (MRSA) in specimens from various body sites: performance characteristics of the BD GeneOhm MRSA assay, the Xpert MRSA assay, and broth-enriched culture in an area with a low prevalence of MRSA infections.

Hombach M, Pfyffer GE, Roos M, Lucke K.
J Clin Microbiol. 2010 Nov;48(11):3882-7. Epub 2010 Sep 22.

Impact of an Assay That Enables Rapid Determination of *Staphylococcus* Species and Their Drug Susceptibility on the Treatment of Patients with Positive Blood Culture Results.

Parta M, Goebel M, Thomas J, Matloobi M, Stager C, Musher DM.
Infect Control Hosp Epidemiol. 2010 Oct;31(10):1043-8.

Institutional prescreening for detection and eradication of methicillin-resistant *Staphylococcus aureus* in patients undergoing elective orthopaedic surgery.

Kim DH, Spencer M, Davidson SM, Li L, Shaw JD, Gulczynski D, Hunter DJ, Martha JF, Miley GB, Parazin SJ, Dejoie P, Richmond JC.
J Bone Joint Surg Am. 2010 Aug 4;92(9):1820-6. Epub 2010 Jul 7.

Impact of rapid methicillin-resistant *Staphylococcus aureus* polymerase chain reaction testing on mortality and cost effectiveness in hospitalized patients with bacteraemia: a decision model.

Brown J, Paladino JA.
Pharmacoeconomics. 2010 Jul 1;28(7):567-75.



Healthcare Associated Infections: MRSA (cont'd)

Rapid MRSA test in exposed persons: costs and savings in hospitals.

Andersen BM, Tollefsen T, Seljordslia B, Hochlin K, Syversen G, Jonassen TØ, Rasch M, Sandvik L.
J Infect. 2010 Apr;60(4):293-9. Epub 2010 Feb 1

Contribution of two molecular assays as compared to selective culture for MRSA screening in a low MRSA prevalence population.

Nulens E, Descheemaeker P, Deurenberg RH, Stobberingh EE, Gordts B.
Infection. 2010 Apr;38(2):98-101. Epub 2010 Feb 27. Erratum in: *Infection.* 2010 Aug;38(4):345.

The effect of rapid screening for methicillin-resistant *Staphylococcus aureus* (MRSA) on the identification and earlier isolation of MRSA-positive patients.

Creamer E, Dolan A, Sherlock O, Thomas T, Walsh J, Moore J, Smyth E, O'Neill E, Shore A, Sullivan D, Rossney AS, Cunney R, Coleman D, Humphreys H.
Infect Control Hosp Epidemiol. 2010 Apr;31(4):374-81.

Feasibility study of a real-time PCR test for methicillin-resistant *Staphylococcus aureus* in a point of care setting.

Brenwald NP, Baker N, Oppenheim B.
J Hosp Infect. 2010 Mar;74(3):245-9. Epub 2009 Nov 14.

Extranasal methicillin-resistant *Staphylococcus aureus* colonization at admission to an acute care Veterans Affairs hospital.

Baker SE, Brecher SM, Robillard E, Strymish J, Lawler E, Gupta K.
Infect Control Hosp Epidemiol. 2010 Jan;31(1):42-6.

Implementation of a methicillin-resistant *Staphylococcus aureus* (MRSA) prevention bundle results in decreased MRSA surgical site infections.

Awad SS, Palacio CH, Subramanian A, Byers PA, Abraham P, Lewis DA, Young EJ.
Am J Surg. 2009 Nov;198(5):607-10.

Comparison of the Xpert methicillin-resistant *Staphylococcus aureus* (MRSA) assay, BD GeneOhm MRSA assay, and culture for detection of nasal and cutaneous groin colonization by MRSA.

Kelley PG, Grabsch EA, Howden BP, Gao W, Grayson ML.
J Clin Microbiol. 2009 Nov;47(11):3769-72. Epub 2009 Aug 26.

Identification of methicillin-resistant or methicillin-susceptible *Staphylococcus aureus* by GeneXpert in blood cultures and wound swabs by GeneXpert.

Parta M, Goebel M, Matloobi M, Stager M, and Musher DM.
J Clin Microbiol. 2009 May;47(5):1609-10. Epub 2009 March 4.

Rapid detection of *Staphylococcus aureus* and methicillin-resistant *S. aureus* (MRSA) in wound specimens and blood cultures: multicenter preclinical evaluation of the Cepheid Xpert MRSA/SA skin and soft tissue and blood culture assays.

Wolk DM, Struelens MJ, Pancholi P, Davis T, Della-Latta P, Fuller D, Picton E, Dickenson R, Denis O, Johnson D, Chapin K.
J Clin Microbiol. 2009 Mar;47(3):823-6. Epub 2009 January 14.



Healthcare Associated Infections: MRSA (cont'd)

Multicenter evaluation of the Cepheid Xpert methicillin-resistant *Staphylococcus aureus* (MRSA) test as a rapid screening method for detection of MRSA in nares.

Wolk DM, Picton E, Johnson D, Davis T, Pancholi P, Ginocchio CC, Finegold S, Welch DF, de Boer M, Fuller D, Solomon MC, Rogers B, Mehta MS, Peterson LR.

J Clin Microbiol. 2009 Mar;47(3):758-64. Epub 2009 January 7.

Detection of staphylococcal cassette chromosome mec-associated DNA segments in multiresistant methicillin-susceptible *Staphylococcus aureus* (MSSA) and identification of *Staphylococcus epidermidis* ccrAB4 in both methicillin-resistant *S. aureus* and MSSA.

Shore AC, Rossney AS, O'Connell B, Herra CM, Sullivan DJ, Humphreys H, Coleman DC.

Antimicrob Agents Chemother. 2008 Dec;52(12):4407-19. Epub 2008 October 13.

Evaluation of the Xpert methicillin-resistant *Staphylococcus aureus* (MRSA) assay using the GeneXpert real-time PCR platform for rapid detection of MRSA from screening specimens.

Rossney AS, Herra CM, Brennan GI, Morgan PM, O'Connell B.

J Clin Microbiol. 2008 Oct;46(10):3285-90. Epub 2008 Aug 6.

Healthcare Associated Infections: *C. difficile*

Evaluation of the fully automated BD MAX Cdiff and Xpert *C. difficile* assays for the direct detection of *Clostridium difficile* in stool specimens.

Dalpke AH, Hofko M, Zorn M, Zimmermann S.

J Clin Microbiol. 2013 Mar 20. [Epub ahead of print]

Improved detection of toxigenic *Clostridium difficile* using the Cepheid Xpert *C. difficile* assay and impact on *C. difficile* infection rates in a tertiary hospital: A double-edged sword.

Williamson DA, Basu I, Freeman J, Swager T, Roberts SA.

Am J Infect Control. 2013 Mar;41(3):270-2. Epub 2012 Aug 30.

Evaluation of *Clostridium difficile* Fecal Load and Limit of Detection during a Prospective Comparison of Two Molecular Tests, the illumigene *C. difficile* and Xpert *C. difficile*/Epi Tests.

Gyorke CE, Wang S, Leslie JL, Cohen SH, Solnick JV, Polage CR.

J Clin Microbiol. 2013 Jan;51(1):278-80. Epub 2012 Oct 10.

***Clostridium difficile* 027 infection in Central Italy.**

Di Bella S, Paglia MG, Johnson E, Petrosillo N.

BMC Infect Dis. 2012 Dec 22;12:370

Evaluation of the Xpert *Clostridium difficile* Assay for the Diagnosis of *Clostridium difficile* Infection.

Shin S, Kim M, Kim M, Lim H, Kim H, Lee K, Chong Y.

Ann Lab Med. 2012 Sep;32(5):355-8. Epub 2012 Aug 13.

***Clostridium difficile* infection in children--experience of clinical centre in Bydgoszcz.**

Duleba K, Smukalska E, Pawłowska M.

Przegl Epidemiol. 2012;66(1):67-71. Polish.



Healthcare Associated Infections: *C. difficile* (cont'd)

Comparison of commercial molecular assays for toxigenic *Clostridium difficile* detection in stools: BD GeneOhm Cdiff, Xpert *C. difficile* and illumigene *C. difficile*.

Viala C, Le Monnier A, Maataoui N, Rousseau C, Collignon A, Poilane I.
J Microbiol Methods. 2012 Aug;90(2):83-5. Epub 2012 Apr 28.

Detection of Toxigenic *Clostridium difficile*: Comparison of the Cell Culture Neutralization, Xpert® *C. difficile*, Xpert® *C. difficile*/Epi and the Illumigene® *C. difficile* Assays.

Pancholi P, Kelly C, Raczkowski M, Balada-Llasat JM.
J Clin Microbiol. 2012 Apr;50(4):1331-5. Epub 2012 Jan 25.

Impact of Clinical Symptoms on the Interpretation of Diagnostic Assays for *Clostridium difficile* Infections.

Dubberke ER, Han Z, Bobo L, Hink T, Lawrence B, Copper S, Hoppe-Bauer J, Burnham CA, Dunne WM Jr.
J Clin Microbiol. 2011 Aug;49(8):2887-93. Epub 2011 Jun 22.

Comparison of two commercial molecular tests for the detection of *Clostridium difficile* in the routine diagnostic laboratory.

Zidaric V, Kotnik Kevorkijan B, Oresic N, Janezic S, Rupnik M.
J Med Microbiol. 2011 Aug;60(Pt 8):1131-6. Epub 2011 Mar 3.

Comparison of five assays for detection of *Clostridium difficile* toxin.

Chapin KC, Dickenson RA, Wu F, Andrea SB.
J Mol Diagn. 2011 Jul;13(4):395-400. Epub 2011 Apr 29.

Lack of effect of strain type on detection of toxigenic *Clostridium difficile* by glutamate dehydrogenase and polymerase chain reaction.

Goldenberg SD, Gumban M, Hall A, Patel A, French GL.
Diagn Microbiol Infect Dis. 2011 Jul;70(3):417-9.

Comparison of Strain Typing Results for *Clostridium difficile* Isolates from North America.

Tenover FC, Akerlund T, Gerding DN, Goering RV, Boström T, Jonsson AM, Wong E, Wortman AT, Persing DH.
J Clin Microbiol. 2011 May;49(5):1831-7. Epub 2011 Mar 9.

Evaluation of the Cepheid Xpert *Clostridium difficile*/Epi assay for diagnosis of *Clostridium difficile* infection and typing of the NAP1 strain at a cancer hospital.

Babady NE, Stiles J, Ruggiero P, Khosa P, Huang D, Shuptar S, Kamboj M, Kiehn TE.
J Clin Microbiol. 2010 Dec;48(12):4519-24. Epub 2010 Oct 13.

Impact of strain type on detection of toxigenic *Clostridium difficile*: comparison of molecular diagnostic and enzyme immunoassay approaches.

Tenover FC, Novak-Weekley S, Woods CW, Peterson LR, Davis T, Schreckenberger P, Fang FC, Dascal A, Gerding DN, Nomura JH, Goering RV, Akerlund T, Weissfeld AS, Baron EJ, Wong E, Marlowe EM, Whitmore J, Persing DH.
J Clin Microbiol. 2010 Oct;48(10):3719-24.

Is repeat PCR needed for diagnosis of *Clostridium difficile* infection?

Luo RF, Banaei N.
J Clin Microbiol. 2010 Oct;48(10):3738-41. Epub 2010 Aug 4.



Healthcare Associated Infections: *C. difficile* (cont'd)

Detection of toxigenic *Clostridium difficile* in diarrheal stools by rapid real-time polymerase chain reaction.

Goldenberg SD, Dieringer T, French GL.
Diagn Microbiol Infect Dis. 2010 Jul;67(3):304-7.

Clostridium difficile Testing in the Clinical Laboratory using Multiple Testing Algorithms.

Novak-Weekley SM, Marlowe EM, Miller JM, Cumpio J, Nomura JH, Vance PH, Weissfeld A.
J Clin Microbiol. 2010 Mar;48(3):889-93. Epub 2010 Jan 13.

Comparison of a commercial multiplex real-time PCR and the cell cytotoxicity neutralization assay for the diagnosis of *Clostridium difficile* infections.

Huang H, Weintraub A, Fang H and Nord C E.
J Clin Microbiol. 2009 Nov;47(11):3729-31. Epub 2009 Sep 9.

Healthcare Associated Infections: VRE

Performance characteristics of the Cepheid Xpert *vanA* assay for rapid identification of patients at high risk for carriage of vancomycin-resistant Enterococci.

Babady NE, Gilhuley K, Ciancimino-Bordelon D, Tang YW.
J Clin Microbiol. 2012 Nov;50(11):3659-63. Epub 2012 Sep 12.

Evaluation of GeneOhm VanR and Xpert *vanA/vanB* molecular assays for the rapid detection of vancomycin-resistant enterococci.

Gazin M, Lammens C, Goossens H, Malhotra-Kumar S; on behalf of the MOSAR WP2 Study Team.
Eur J Clin Microbiol Infect Dis. 2012 Mar;31(3):273-276. Epub 2011 Jun 12.

Implementation of *vanA* and *vanB* genes by PCR technique research interest in system (Xpert *vanA/vanB* Cepheid®) closed in a laboratory of microbiology in managing an outbreak to *Enterococcus faecium* resistant glycopeptide (EfRG).

Dekeyser S, Beclin E, Descamps D.
Pathol Biol (Paris). 2011 Apr;59(2):73-78. Epub 2010 Sep 9. French.

Diagnostic accuracy of the Cepheid GeneXpert *vanA/vanB* assay ver. 1.0 to detect the *vanA* and *vanB* vancomycin resistance genes in *Enterococcus* from perianal specimens.

Marnier ES, Wolk DM, Carr J, Hewitt C, Dominguez LL, Kovacs T, Johnson DR, Hayden RT.
Diagn Microbiol Infect Dis. 2011 Apr;69(4):382-9.

Rapid detection of vancomycin-resistant enterococci from rectal swabs by the Cepheid Xpert *vanA/vanB* assay.

Bourdon N, Bérenger R, Lepoutier R, Mouet A, Lesteven C, Borgey F, Fines-Guyon M, Leclercq R, Cattoir V.
Diagn Microbiol Infect Dis. 2010 Jul;67(3):291-3.



Critical Infectious Diseases: Tuberculosis

A more detailed Xpert MTB/RIF bibliography is available at <http://www.cepheidcares.com> (click on Resources).

Evaluation of the Xpert MTB/RIF test for the diagnosis of childhood pulmonary tuberculosis in Uganda: a cross-sectional diagnostic study.

Sekadde MP, Wobudeya E, Joloba ML, Ssengooba W, Kisémbó H, Bakeera-Kitaka S, Musoke P.
BMC Infect Dis. 2013 Mar 12;13(1):133. [Epub ahead of print]

GeneXpert® for smear-negative pulmonary tuberculosis: does it play a role in low-burden countries?

Muñoz L, Moure R, Porta N, Gonzalez L, Guerra R, Alcaide F, Santin M.
Diagn Microbiol Infect Dis. 2013 Mar;75(3):325-6. Epub 2012 Dec 28.

Point-of-care Xpert® MTB/RIF for smear-negative tuberculosis suspects at a primary care clinic in South Africa.

Van Rie A, Page-Shipp L, Hanrahan CF, Schnippel K, Dansey H, Bassett J, Clouse K, Scott L, Stevens W, Sanne I.
Int J Tuberc Lung Dis. 2013 Mar;17(3):368-72.

Xpert MTB/RIF increases timely TB detection among people living with HIV and saves lives.

WHO Information note. February 2013.
http://www.who.int/tb/challenges/hiv/Xpert_TBHIV_Information_Note_final.pdf

Xpert® MTB/RIF assay for pulmonary tuberculosis and rifampicin resistance in adults

Steingart KR, Sohn H, Schiller I, Kloda LA, Boehme CC, Pai M, Dendukuri N.
Cochrane Database Syst Rev. 2013 Jan 31;1:CD009593. Review.

Evaluation of Xpert MTB/RIF and MODS assay for the diagnosis of pediatric tuberculosis.

Nhu NT, Ha DT, Anh ND, Thu DD, Duong TN, Quang ND, Lan NT, Van Quyet T, Tuyen NT, Ha VT, Giang DC, Dung NH, Wolbers M, Farrar J, Caws M.
BMC Infect Dis. 2013 Jan 23;13:31.

Diagnosing Xpert MTB/RIF negative TB: Impact and cost of alternative algorithms for South Africa.

Schnippel K, Meyer-Rath G, Long L, Stevens WS, Sanne I, Rosen S.
S Afr Med J. 2013 Jan 14;103(2):101-6.

Assessment of the Xpert MTB/RIF assay for diagnosis of tuberculosis with gastric lavage aspirates in children in sub-Saharan Africa: a prospective descriptive study.

Bates M, O'Grady J, Maeurer M, Tembo J, Chilukutu L, Chabala C, Kasonde R, Mulota P, Mzyece J, Chomba M, Mukonda L, Mumba M, Kapata N, Rachow A, Clowes P, Hoelscher M, Mwaba P, Zumla A.
Lancet Infect Dis. 2013 Jan;13(1):36-42. Epub 2012 Nov 5.

Mycobacterium tuberculosis Beijing outbreak in a school in Marseille, France, 2012.

Golesi F, Brignatz J, Bellenfant M, Raoult D, Drancourt M.
Euro Surveill. 2013 Jan 10;18(2).

Rapid diagnosis of pediatric intrathoracic tuberculosis from stool samples using the Xpert MTB/RIF Assay: a pilot study.

Walters E, Gie RP, Hesselning AC, Friedrich SO, Diacon AH, Gie RP.
Pediatr Infect Dis J. 2012 Dec;31(12):1316. No abstract available.



Critical Infectious Diseases: Tuberculosis (cont'd)

Performance of Cepheid® Xpert MTB/RIF® and TB-Biochip® MDR in two regions of Russia with a high prevalence of drug-resistant tuberculosis.

Kurbatova EV, Kaminski DA, Erokhin VV, Volchenkov GV, Andreevskaya SN, Chernousova LN, Demikhova OV, Ershova JV, Kaunetis NV, Kuznetsova TA, Larionova EE, Smirnova TG, Somova TR, Vasilieva IA, Vorobieva AV, Zolkina SS, Cegielski JP.

Eur J Clin Microbiol Infect Dis. 2012 Dec 22. [Epub ahead of print]

Screening and rapid molecular diagnosis of tuberculosis in prisons in Russia and Eastern Europe: a cost-effectiveness analysis.

Winetsky DE, Negoescu DM, DeMarchis EH, Almukhamedova O, Dooronbekova A, Pulatov D, Vezhnina N, Owens DK, Goldhaber-Fiebert JD.

PLoS Med. 2012 Nov;9(11):e1001348. Epub 2012 Nov 27.

Population health impact and cost-effectiveness of tuberculosis diagnosis with Xpert MTB/RIF: a dynamic simulation and economic evaluation.

Menzies NA, Cohen T, Lin HH, Murray M, Salomon JA.

PLoS Med. 2012 Nov;9(11):e1001347. Epub 2012 Nov 20.

Impact of Xpert MTB/RIF testing on tuberculosis management and outcomes in hospitalized patients in Uganda.

Yoon C, Cattamanchi A, Davis JL, Worodria W, den Boon S, Kalema N, Katagira W, Kaswabuli S, Miller C, Andama A, Albert H, Nabeta P, Gray C, Ayakaka I, Huang L.

PLoS One. 2012;7(11):e48599. Epub 2012 Nov 6.

Xpert® MTB/RIF diagnosed disseminated smear-negative MDR-TB in a sub-district hospital in India.

Dorjee K, Salvo F, Dierberg KL.

Int J Tuberc Lung Dis. 2012 Nov;16(11):1560-1. No abstract available.

The Xpert® MTB/RIF assay evaluation in South Korea, a country with an intermediate tuberculosis burden.

Kim SY, Kim H, Kim SY, Ra EK, Joo SI, Shin S, Seong MW, Yoo CG, Kim EC, Park SS.

Int J Tuberc Lung Dis. 2012 Nov;16(11):1471-6. Epub 2012 Sep 12.

Performance of the Xpert® MTB/RIF assay in an active case-finding strategy: a pilot study from Tanzania.

Ntinginya EN, Squire SB, Millington KA, Mtafya B, Saathoff E, Heinrich N, Rojas-Ponce G, Kowuor D, Maboko L, Reither K, Clowes P, Hoelscher M, Rachow A.

Int J Tuberc Lung Dis. 2012 Nov;16(11):1468-70. Epub 2012 Sep 7.

Evaluation of the Xpert MTB/RIF assay at a tertiary care referral hospital in a setting where tuberculosis and HIV infection are highly endemic.

O'Grady J, Bates M, Chilukutu L, Mzyece J, Cheelo B, Chilufya M, Mukonda L, Mumba M, Tembo J, Chomba M, Kapata N, Maeurer M, Rachow A, Clowes P, Hoelscher M, Mwaba P, Zumla A.

Clin Infect Dis. 2012 Nov;55(9):1171-8. Epub 2012 Jul 17.

Evaluation of direct detection of *Mycobacterium tuberculosis* complex in respiratory and non-respiratory clinical specimens using the Cepheid GeneXpert® system.

Al-Ateah SM, Al-Dowaidi MM, El-Khizzi NA.

Saudi Med J. 2012 Oct;33(10):1100-5.



Critical Infectious Diseases: Tuberculosis (cont'd)

Rapid molecular detection of pulmonary tuberculosis in HIV-infected patients in Santiago, Chile.

Balcells ME, García P, Chanqueo L, Bahamondes L, Lasso M, Gallardo AM, Cifuentes L.
Int J Tuberc Lung Dis. 2012 Oct;16(10):1349-53. Epub 2012 Aug 3.

The impact of new tuberculosis diagnostics on transmission: why context matters.

Lin HH, Dowdy D, Dye C, Murray M, Cohen T.
Bull World Health Organ. 2012 Oct 1;90(10):739-747A. Epub 2012 Jul 16.

Rapid molecular diagnosis of pulmonary tuberculosis in children using nasopharyngeal specimens.

Zar HJ, Workman L, Isaacs W, Munro J, Black F, Eley B, Allen V, Boehme CC, Zemanay W, Nicol MP.
Clin Infect Dis. 2012 Oct;55(8):1088-95. Epub 2012 Jul 2.

A diagnostic accuracy study of Xpert® MTB/RIF in HIV-positive patients with high clinical suspicion of pulmonary tuberculosis in Lima, Peru.

Carriquiry G, Otero L, González-Lagos E, Zamudio C, Sánchez E, Nabeta P, Campos M, Echevarría J, Seas C, Gotuzzo E.
PLoS One. 2012;7(9):e44626. Epub 2012 Sep 7.

Rapid Diagnosis of Pulmonary and Extrapulmonary Tuberculosis in HIV-Infected Patients. Comparison of LED Fluorescent Microscopy and the GeneXpert MTB/RIF Assay in a District Hospital in India.

Alvarez-Uria G, Azcona JM, Midde M, Naik PK, Reddy S, Reddy R.
Tuberc Res Treat. 2012;2012:932862. Epub 2012 Aug 26.

Performance characteristics of the Cepheid Xpert MTB/RIF test in a tuberculosis prevalence survey.

Dorman SE, Chihota VN, Lewis JJ, Shah M, Clark D, Grant AD, Churchyard GJ, Fielding KL.
PLoS One. 2012;7(8):e43307. Epub 2012 Aug 15.

Clinical validation of Xpert MTB/RIF for the diagnosis of extrapulmonary tuberculosis.

Tortoli E, Russo C, Piersimoni C, Mazzola E, Dal Monte P, Pascarella M, Borroni E, Mondo A, Piana F, Scarparo C, Coltella L, Lombardi G, Cirillo DM.
Eur Respir J. 2012 Aug;40(2):442-7. Epub 2012 Jan 12.

The diagnostic accuracy of urine-based Xpert MTB/RIF in HIV-infected hospitalized patients who are smear-negative or sputum scarce.

Peter JG, Theron G, Muchinga TE, Govender U, Dheda K.
PLoS One. 2012;7(7):e39966. Epub 2012 Jul 9.

High Diagnostic Yield of Tuberculosis From Screening Urine Samples From HIV-Infected Patients With Advanced Immunodeficiency Using The Xpert MTB/RIF Assay.

Lawn SD, Kerkhoff AD, Vogt M, Wood R.
J Acquir Immune Defic Syndr. 2012 Jul 1;60(3):289-94.

Diagnosis of extrapulmonary tuberculosis using the Xpert® MTB/RIF assay.

Lawn SD, Zumla AI.
Expert Rev Anti Infect Ther. 2012 Jun;10(6):631-5.



Critical Infectious Diseases: Tuberculosis (cont'd)

Cost-effectiveness of tuberculosis diagnostic strategies to reduce early mortality among persons with advanced HIV infection initiating antiretroviral therapy.

Abimbola TO, Marston BJ, Date AA, Blandford JM, Sangrujee N, Wiktor SZ.
J Acquir Immune Defic Syndr. 2012 May 1;60(1):e1-7.

The cost-effectiveness of routine tuberculosis screening with Xpert MTB/RIF prior to initiation of antiretroviral therapy in South Africa: a model-based analysis.

Andrews JR, Lawn SD, Rusu C, Wood R, Noubary F, Bender MA, Horsburgh CR, Losina E, Freedberg KA, Walensky RP.
AIDS. 2012 May 15;26(8):987-95.

Effectiveness of an Integrated Real-Time PCR Method for Detection of the *Mycobacterium tuberculosis* Complex in Smear-Negative Extrapulmonary Samples in an Area of Low Tuberculosis Prevalence.

Moure R, Martín R, Alcaide F.
J Clin Microbiol. 2012 Feb;50(2):513-5. Epub 2011 Dec 7.

Two selected commercially based nucleic acid amplification tests for the diagnosis of tuberculosis.

Safianowska A, Walkiewicz R, Nejman-Gryz P, Grubek-Jaworska H.
Pneumonol Alergol Pol. 2012;80(1):6-12. Polish.

Comparison of quantitative techniques including Xpert MTB/RIF to evaluate mycobacterial burden.

van Zyl-Smit RN, Binder A, Meldau R, Mishra H, Semple PL, Theron G, Peter J, Whitelaw A, Sharma SK, Warren R, Bateman ED, Dheda K.
PLoS One. 2011;6(12):e28815. Epub 2011 Dec 22.

Dried Culture Spots for Xpert MTB/RIF External Quality Assessment: Results of a Phase 1 Pilot Study in South Africa.

Scott LE, Gous N, Cunningham BE, Kana BD, Perovic O, Erasmus L, Coetzee GJ, Koornhof H, Stevens W.
J Clin Microbiol. 2011 Dec;49(12):4356-60. Epub 2011 Oct 5.

Evaluation of the GeneXpert MTB/RIF Assay for Rapid Diagnosis of Tuberculosis and Detection of Rifampin Resistance in Pulmonary and Extrapulmonary Specimens.

Zeka AN, Tasbakan S, Cavusoglu C.
J Clin Microbiol. 2011 Dec;49(12):4138-41. Epub 2011 Sep 28.

Rapid Diagnosis of Tuberculosis with the Xpert MTB/RIF Assay in High Burden Countries: A Cost-Effectiveness Analysis.

Vassall A, van Kampen S, Sohn H, Michael JS, John KR, den Boon S, Davis JL, Whitelaw A, Nicol MP, Gler MT, Khaliqov A, Zamudio C, Perkins MD, Boehme CC, Cobelens F.
PLoS Med. 2011 Nov;8(11):e1001120. Epub 2011 Nov 8.

Xpert MTB/RIF for Rapid Diagnosis of Tuberculous Lymphadenitis from Fine-Needle-Aspiration Biopsy Specimens.

Ligthelm LJ, Nicol MP, Hoek KG, Jacobson R, van Helden PD, Marais BJ, Warren RM, Wright CA.
J Clin Microbiol. 2011 Nov;49(11):3967-70. Epub 2011 Aug 31.



Critical Infectious Diseases: Tuberculosis (cont'd)

Accuracy of the Xpert MTB/RIF test for the diagnosis of pulmonary tuberculosis in children admitted to hospital in Cape Town, South Africa: a descriptive study.

Nicol MP, Workman L, Isaacs W, Munro J, Black F, Eley B, Boehme CC, Zemanay W, Zar HJ.
Lancet Infect Dis. 2011 Nov;11(11):819-24. Epub 2011 Jul 19.

A multisite assessment of the quantitative capabilities of the Xpert MTB/RIF assay.

Blakemore R, Nabeta P, Davidow AL, Vadwai V, Tahiri R, Munsamy V, Nicol M, Jones M, Persing DH, Hillemann D, Ruesch-Gerdes S, Leisegang F, Zamudio C, Rodrigues C, Boehme CC, Perkins MD, Alland D.
Am J Respir Crit Care Med. 2011 Nov 1;184(9):1076-84.

Comparison of Two Nucleic Acid Amplification Assays, the Xpert MTB/RIF Assay and the Amplified *Mycobacterium Tuberculosis* Direct Assay, for Detection of *Mycobacterium tuberculosis* in Respiratory and Nonrespiratory Specimens.

Teo J, Jureen R, Chiang D, Chan D, Lin R.
J Clin Microbiol. 2011 Oct;49(10):3659-62. Epub 2011 Aug 24.

Performance of Xpert MTB/RIF RUO Assay and IS6110 Real-Time PCR for *Mycobacterium tuberculosis* Detection in Clinical Samples.

Miller MB, Popowitch EB, Backlund MG, Ager EP.
J Clin Microbiol. 2011 Oct;49(10):3458-62. Epub 2011 Aug 17.

GeneXpert® MTB/RIF for rapid detection of *Mycobacterium tuberculosis* in pulmonary and extra-pulmonary samples.

Hanif SN, Eldeen HS, Ahmad S, Mokaddas E.
Int J Tuberc Lung Dis. 2011 Sep;15(9):1274-5.

Cepheid GeneXpert MTB/RIF Assay for *Mycobacterium tuberculosis* Detection and Rifampin Resistance Identification in Patients with Substantial Clinical Indications of Tuberculosis and Smear-Negative Microscopy Results.

Ioannidis P, Papaventsis D, Karabela S, Nikolaou S, Panagi M, Raftopoulou E, Konstantinidou E, Marinou I, Kanavaki S.
J Clin Microbiol. 2011 Aug;49(8):3068-70. Epub 2011 Jun 15.

Comparison of two molecular methods for rapid diagnosis of extrapulmonary tuberculosis.

Causse M, Ruiz P, Gutiérrez-Aroca JB, Casal M.
J Clin Microbiol. 2011 Aug;49(8):3065-7. Epub 2011 Jun 8.

Suitability of Xpert MTB/RIF and Genotype MTBDRplus for Patient Selection for a Tuberculosis Clinical Trial.

Friedrich SO, Venter A, Kayigire XA, Dawson R, Donald PR, Diacon AH.
J Clin Microbiol. 2011 Aug;49(8):2827-31. Epub 2011 Jun 8.

Screening for HIV-Associated Tuberculosis and Rifampicin Resistance before Antiretroviral Therapy Using the Xpert MTB/RIF Assay: A Prospective Study.

Lawn SD, Brooks SV, Kranzer K, Nicol MP, Whitelaw A, Vogt M, Bekker LG, Wood R.
PLoS Med. 2011 Jul;8(7):e1001067. Epub 2011 Jul 26.



Critical Infectious Diseases: Tuberculosis (cont'd)

Comparison of Xpert MTB/RIF with Other Nucleic Acid Technologies for Diagnosing Pulmonary Tuberculosis in a High HIV Prevalence Setting: A Prospective Study.

Scott LE, McCarthy K, Gous N, Nduna M, Van Rie A, Sanne I, Venter WF, Duse A, Stevens W.
PLoS Med. 2011 Jul;8(7):e1001061. Epub 2011 Jul 26.

Xpert® MTB/RIF, a novel automated polymerase chain reaction-based tool for the diagnosis of TB.

Bowles EC, Frey e B, van Ingen J, Mulder B, Boeree MJ, van Soolingen D.
Int J Tuberc Lung Dis. 2011 Jul;15(7):988-9.

Xpert MTB/RIF: a New Pillar in Diagnosis of Extrapulmonary Tuberculosis?

Vadwai V, Boehme C, Nabeta P, Shetty A, Alland D, Rodrigues C.
J Clin Microbiol. 2011 Jul;49(7):2540-5. Epub 2011 May 18.

Evaluation of the Xpert MTB/RIF Assay for the Diagnosis of Pulmonary Tuberculosis in a High HIV Prevalence Setting.

Theron G, Peter J, van Zyl-Smit R, Mishra H, Streicher E, Murray S, Dawson R, Whitelaw A, Hoelscher M, Sharma S, Pai M, Warren R, Dheda K.
Am J Respir Crit Care Med. 2011 Jul 1;184(1):132-40. Epub 2011 Apr 14.

Rapid and Accurate Detection of *Mycobacterium tuberculosis* in Sputum Samples by Cepheid Xpert MTB/RIF Assay-A Clinical Validation Study.

Rachow A, Zumla A, Heinrich N, Rojas-Ponce G, Mtafya B, Reither K, Ntinginya EN, O'Grady J, Huggett J, Dheda K, Boehme C, Perkins M, Saathoff E, Hoelscher M.
PLoS One. 2011;6(6):e20458. Epub 2011 Jun 29.

Comparison of the Xpert MTB/RIF Test with an IS6110-TaqMan Real-Time PCR Assay for Direct Detection of *Mycobacterium tuberculosis* in Respiratory and Nonrespiratory Specimens.

Armand S, Vanhuls P, Delcroix G, Courcol R, Lema tre N.
J Clin Microbiol. 2011 May;49(5):1772-6. Epub 2011 Mar 16.

Rapid and efficient detection of *Mycobacterium tuberculosis* in respiratory and non-respiratory samples.

Malbruny B, Le Marrec G, Courageux K, Leclercq R, Cattoir V.
Int J Tuberc Lung Dis. 2011 Apr;15(4):553-5.

Feasibility, diagnostic accuracy, and effectiveness of decentralised use of the Xpert MTB/RIF test for diagnosis of tuberculosis and multidrug resistance: a multicentre implementation study.

Boehme CC, Nicol MP, Nabeta P, Michael JS, Gotuzzo E, Tahirli R, Gler MT, Blakemore R, Worodria W, Gray C, Huang L, Caceres T, Mehdiev R, Raymond L, Whitelaw A, Sagadevan K, Alexander H, Albert H, Cobelens F, Cox H, Alland D, Perkins MD.
Lancet. 2011 Apr 30;377(9776):1495-505. Epub 2011 Apr 18.

Evaluation of the Cepheid Xpert MTB/RIF assay for the Direct Detection of *Mycobacterium tuberculosis* Complex from Respiratory Specimens.

Marlowe EM, Novak-Weekley SM, Cumpio J, Sharp SE, Momeny MA, Babst A, Carlson JS, Kawamura M, Pandori M.
J Clin Microbiol. 2011 Apr;49(4):1621-3. Epub 2011 Feb 2.



Critical Infectious Diseases: Tuberculosis (cont'd)

Rapid molecular detection of extrapulmonary tuberculosis by automated GeneXpert MTB/RIF system.

Hillemann D, Rüscher-Gerdes S, Boehme C, Richter E.

J Clin Microbiol. 2011 Apr;49(4):1202-5. Epub 2011 Jan 26.

Rapid Detection of Mycobacterium tuberculosis Complex and Rifampin Resistance in Smear-Negative Clinical Samples by Use of an Integrated Real-Time PCR Method.

Moure R, Muñoz L, Torres M, Santin M, Martín R, Alcaide F.

J Clin Microbiol. 2011 Mar;49(3):1137-9. Epub 2010 Dec 29.

Rapid diagnosis of smear-negative tuberculous osteoarthritis by real-time polymerase chain reaction on bone tissue.

de Lauzanne A, Doit C, Bonacorsi S, Fitoussi F, Boman F, Lorrot M, Faye A, Bingen E.

Pediatr Infect Dis J. 2011 Feb;30(2):184.

Evaluation of Xpert MTB/RIF Results for the Detection of Mycobacterium tuberculosis in Clinical Samples.

Ciftçi IH, Aslan MH, Aşık G.

Mikrobiyol Bul. 2011 Jan;45(1):43-47. Turkish.

Containment of bioaerosol infection risk by the Xpert MTB/RIF assay and its applicability to point-of-care settings.

Banada PP, Sivasubramani SK, Blakemore R, Boehme C, Perkins MD, Fennelly K, Alland D.

J Clin Microbiol. 2010 Oct;48(10):3551-7. Epub 2010 Aug 18.

Rapid Molecular Detection of Tuberculosis and Rifampin Resistance.

Boehme CC, Nabeta P, Hillemann D, Nicol MP, Shenai S, Krapp F, Allen J, Tahiri R, Blakemore R,

Rustomjee R, Milovic A, Jones M, O'Brien SM, Persing DH, Ruesch-Gerdes S, Gotuzzo E, Rodrigues C,

Alland D, Perkins MD.

N Engl J Med. 2010 Sep 9;363(11):1005-15. Epub 2010 Sep 1.

Evaluation of the analytical performance of the Xpert MTB/RIF assay.

Blakemore R, Story E, Helb D, Kop J, Banada P, Owens MR, Chakravorty S, Jones M, Alland D.

J Clin Microbiol. 2010 Jul;48(7):2495-501. Epub 2010 May 26.

Rapid detection of Mycobacterium tuberculosis and rifampin-resistance using on-demand, near patient technology.

Helb D, Jones M, Story E, Boehme C, Wallace E, Ho K, Kop J, Owens MR, Rodgers R, Banada P, Safi H,

Blakemore R, Lan NT, Jones-López EC, Levi M, Burday M, Ayakaka I, Mugerwa RD, McMillan B,

Winn-Deen E, Christel L, Dailey P, Perkins MD, Persing DH, Alland D.

J Clin Microbiol. 2010 Jan;48(1):229-37. Epub 2009 Oct.28.



Critical Infectious Diseases: Influenza

Comparison of Xpert Flu rapid nucleic acid testing with rapid antigen testing for the diagnosis of influenza A and B.

DiMaio MA, Sahoo MK, Waggoner J, Pinsky BA.
J Virol Methods. 2012 Dec;186(1-2):137-40. Epub 2012 Jul 25.

Rapid diagnosis of influenza: An evaluation of two commercially available RT-PCR assays.

Li M, Brenwald N, Bonigal S, Chana K, Osman H, Oppenheim B.
J Infect. 2012 Jul;65(1):60-3. Epub 2012 Apr 17.

Evaluation of the Cepheid® Xpert® Flu Assay for Rapid Identification and Differentiation of Influenza A, Influenza A 2009 H1N1, and Influenza B.

Novak-Weekley SM, Marlowe EM, Poulter M, Dwyer D, Speers D, Rawlinson W, Baleriola C, Robinson CC.
J Clin Microbiol. 2012 May;50(5):1704-10. Epub 2012 Feb 29.

Evaluation of the Xpert Flu test and comparison with in-house real-time RT-PCR assays for detection of influenza virus from 2008 to 2011 in Marseille, France.

Salez N, Ninove L, Thirion L, Gazin C, Zandotti C, de Lamballerie X, Charrel RN.
Clin Microbiol Infect. 2012 Apr;18(4):E81-3. Epub 2012 Feb 23.

Retrospective and prospective verification of the Cepheid Xpert influenza virus assay.

Popowitch EB, Rogers E, Miller MB.
J Clin Microbiol. 2011 Sep;49(9):3368-9. Epub 2011 Jul 20.

Comparison of GeneXpert FluA PCR to direct fluorescent antibody and respiratory viral panel PCR assays for detection of 2009 novel H1N1 influenza virus.

Miller S, Moayeri M, Wright C, Castro L, Pandori M.
J Clin Microbiol. 2010 Dec;48(12):4684-5. Epub 2010 Oct 20.

Evaluation of the Xpert™ Flu A Panel nucleic acid amplification-based point-of-care test for Influenza A virus detection and pandemic H1 subtyping.

Jenny SL, Hu Y, Overduin P, Meijer A.
J Clin Virol. 2010 Oct;49(2):85-9. Epub 2010 Jul 31.

Validation of the Cepheid Xpert™ Flu A real time RT-PCR detection panel for emergency use authorization.

Sambol AR, Iwen PC, Pieretti M, Basu S, Levi MH, Gilonske KD, Moses KD, Marola JL, Ramamoorthy P.
J Clin Virol. 2010 Aug;48(4):234-8. Epub 2010 Jun 26.



Critical Infectious Diseases: Enterovirus

Implementation of the Cepheid Xpert EV Assay for Rapid Detection of Enteroviral Meningitis: Experience of a Tertiary Care Center and a Technical Review.

Slika S, Abbas F, Mahfouz R.

Genet Test Mol Biomarkers. 2013 Mar;17(3):232-5. Epub 2013 Jan 8.

Enterovirus reverse transcriptase polymerase chain reaction assay in cerebrospinal fluid: An essential tool in meningitis management in childhood.

Menasalvas-Ruiz AI, Salvador-García C, Moreno-Docón A, Alfayate-Miguélez S, Pérez Cánovas C, Sánchez-Solís M.

Enferm Infecc Microbiol Clin. 2013 Feb;31(2):71-5. Epub 2012 Dec 11.

Rapid enterovirus molecular testing in cerebrospinal fluid reduces length of hospitalization and duration of antibiotic therapy in children with aseptic meningitis.

Huizing KM, Swanink CM, Landstra AM, van Zwet AA, van Setten PA.

Pediatr Infect Dis J. 2011 Dec;30(12):1107-9.

Comparative detection of enterovirus RNA in cerebrospinal fluid: GeneXpert system vs. real-time RT-PCR assay.

Ninove L, Nougairede A, Gazin C, Zandotti C, Drancourt M, de Lamballerie X, Charrel RN.

Clin Microbiol Infect. 2011 Dec;17(12):1890-4. Epub 2011 Aug 16.

Evaluation of a rapid and completely automated real-time reverse transcriptase PCR assay for diagnosis of enteroviral meningitis.

Nolte FS, Rogers BB, Tang YW, Oberste MS, Robinson CC, Kehl KS, Rand KA, Rotbart HA, Romero JR, Nyquist AC, Persing DH.

J Clin Microbiol. 2011 Feb;49(2):528-33. Epub 2010 Dec 15.

Multicenter evaluation of the enterovirus R-gene real-time RT-PCR assay for the detection of enteroviruses in clinical specimens.

Pillet S, Billaud G, Omar S, Lina B, Pozzetto B, Schuffenecker I.

J Clin Virol. 2010 Jan;47(1):54-9. Epub 2009 Oct 29.

Prevalence and management of invalid GeneXpert enterovirus results obtained with cerebrospinal fluid samples: a 2-year study.

Sefers SE, Raymer AK, Kilby JT, Persing DH, Tang YW.

J Clin Microbiol. 2009 Sep;47(9):3008-10. Epub 2009 Jul 15.

Performance of the GeneXpert enterovirus assay for detection of enteroviral RNA in cerebrospinal fluid.

Marlowe EM, Novak SM, Dunn JJ, Smith A, Cumpio J, Makalintal E, Barnes D, Burchette RJ.

J Clin Virol. 2008 Sep; 43(1):110-3. Epub 2008 Jun 4.

GeneXpert enterovirus assay: one-year experience in a routine laboratory setting and evaluation on three proficiency panels.

Seme K, Mocilnik T, Komlos KF, Dopljar A, Persing DH, Poljak M.

J Clin Microbiol. 2008 Apr;46(4):1510-3. Epub 2008 Feb 6.

Multicenter beta trial of the GeneXpert enterovirus assay.

Kost CB, Rogers B, Oberste MS, Robinson C, Eaves BL, Leos K, Danielson S, Satya M, Weir F, Nolte FS.

J Clin Microbiol. 2007 Apr; 45(4):1081-6. Epub 2007 Jan 24.



Women's Health: Group B Streptococcus

Evaluation of the Cepheid Xpert GBS Assay for Rapid Detection of Group B Streptococci in Amniotic Fluids from Pregnant Women with Premature Rupture of Membranes.

Bourgeois-Nicolaos N, Cordier AG, Guillet-Caruba C, Casanova F, Benachi A, Doucet-Populaire F.
J Clin Microbiol. 2013 Apr;51(4):1305-6. Epub 2013 Feb 6.

Usefulness of a Rapid Real-time PCR Assay in Prenatal Screening for Group B Streptococcus Colonization.

Park JS, Cho DH, Yang JH, Kim MY, Shin SM, Kim EC, Park SS, Seong MW.
Ann Lab Med. 2013 Jan;33(1):39-44. Epub 2012 Dec 17.

Cost and effectiveness of intrapartum group B streptococcus polymerase chain reaction screening for term deliveries.

El Helali N, Giovangrandi Y, Guyot K, Chevet K, Gutmann L, Durand-Zaleski I.
Obstet Gynecol. 2012 Apr;119(4):822-9.

Intrapartum Group B streptococcus detection by rapid polymerase chain reaction assay for the prevention of neonatal sepsis.

de Tejada BM, Pfister RE, Renzi G, François P, Irion O, Boulvain M, Schrenzel J.
Clin Microbiol Infect. 2011 Dec;17(12):1786-91. Epub 2011 Apr 12.

Evaluation of a rapid, real-time intrapartum group B streptococcus assay.

Young BC, Dodge LE, Gupta M, Rhee JS, Hacker MR.
Am J Obstet Gynecol. 2011 Oct;205(4):372.e1-6. Epub 2011 Jun 29.

Evaluation of the Xpert® Group B streptococcus real-time polymerase chain reaction assay compared to StrepB Carrot Broth™ for the rapid intrapartum detection of group B streptococcus colonization.

Church DL, Baxter H, Lloyd T, Miller B, Gregson DB.
Diagn Microbiol Infect Dis. 2011 Apr;69(4):460-2.

Diagnostic accuracy of a rapid real-time polymerase chain reaction assay for universal intrapartum group B Streptococcus screening.

El Helali N, Nguyen JC, Ly A, Giovangrandi Y, Trinquart L.
Clinical Infectious Diseases. 2009 Aug 1; 49(3):417-2.

Rapid group B Streptococci screening using a real-time polymerase chain reaction assay.

Edwards RK, Novak-Weekley SM, Koty PP, Davis T, Leeds LJ, Jordan JA.
Obstetrics and Gynecology. 2008 June; 111(6):1335-1341.



Women's Health: CT/NG

Analytical evaluation of the GeneXpert® CT/NG, the first genetic point of care assay for simultaneous detection of *Neisseria gonorrhoeae* and *Chlamydia trachomatis*.

Tabrizi SN, Unemo M, Golparian D, Twin J, Limnios AE, Lahra M, Guy R; on behalf of the TTANGO Investigators. *J Clin Microbiol.* 2013 Apr 3. [Epub ahead of print]

Comparison of the Abbott m2000 RealTime CT Assay and the Cepheid GeneXpert CT/NG Assay to the Roche Amplicor CT Assay for Detection of *Chlamydia trachomatis* in ocular samples from Tanzania.

Dize L, West S, Williams JA, Van Der Pol B, Quinn TC, Gaydos CA. *J Clin Microbiol.* 2013 Mar 13. [Epub ahead of print]

Performance of the Cepheid CT/NG Xpert Rapid PCR Test for the Detection of *Chlamydia trachomatis* and *Neisseria gonorrhoeae*.

Gaydos CA, Van Der Pol B, Jett-Goheen M, Barnes M, Quinn N, Clark C, Daniel GE, Dixon PB, Hook EW 3rd; The CT/NG Study Group. *J Clin Microbiol.* 2013 Mar 6. [Epub ahead of print]

Performance of the GeneXpert CT/NG assay compared to the Aptima AC2 assay for detection of rectal *Chlamydia trachomatis* and *Neisseria gonorrhoeae* using residual Aptima samples.

Goldenberg SD, Finn J, Sedudzi E, White JA, Tong CY. *J Clin Microbiol.* 2012 Dec;50(12):3867-9. Epub 2012 Sep 19.

Oncology & Genetics

Comparative study of BCR-ABL1 quantification: Xpert assay, a feasible solution to standardization concerns.

López-Jorge CE, Gómez-Casares MT, Jiménez-Velasco A, García-Bello MA, Barrios M, Lopez J, de la Iglesia S, Ramírez T, Sánchez G, Heiniger AI, Molero T. *Ann Hematol.* 2012 Aug;91(8):1245-50. Epub 2012 Apr 25.

Evaluation of the GeneXpert assay in the detection of Factor V Leiden and Prothrombin 20210 in stored, previously classified samples.

Gessoni G, Valverde S, Manoni F. *Clin Chim Acta.* 2012 Apr 11;413(7-8):814-6. Epub 2012 Jan 21.

GeneXpert in the diagnosis of risk factors for thrombophilia: evaluation of its use in a small laboratory. Establishment of a conversion factor for the Cepheid GeneXpert BCR-ABL assay.

McNiven M, Talaulikar D. *Pathology.* 2012 Jan;44(1):55-7.

GeneXpert in the diagnosis of risk factors for thrombophilia: evaluation of its use in a small laboratory.

Gessoni G, Sara SV, Canistro R, Manoni F. *Blood Transfus.* 2012 Apr;10(2):228-9. Epub 2011 Dec 21.



Oncology & Genetics (cont'd)

Cartridge-based automated BCR-ABL1 mRNA quantification: solving the issues of standardisation, at what cost?

Cayuela JM, Macintyre E, Darlington M, Abdelali RB, Fund X, Villarese P, Tulliez M, Raffoux E, Sigaux F, Réa D, Seror V.

Haematologica. 2011 May;96(5):664-71. Epub 2011 Feb 17.

Development of an integrated assay for detection of BCR-ABL RNA.

Winn-Deen ES, Helton B, Van Atta R, Wong W, Peralta J, Wang J, Tsongalis GJ, Belloni D, Chan D, Eshleman JR, Gocke CD, Jobbagy Z, Beppu L, Radich JP.

Clin Chem. 2007 Sep;53(9):1593-600. Epub 2007 Jul 27.

Quantitative assessment of the BCR-ABL transcript using the Cepheid Xpert BCR-ABL Monitor assay.

Dufresne SD, Belloni DR, Levy NB, Tsongalis GJ.

Arch Pathol Lab Med. 2007 Jun;131(6):947-50.

Evaluation of the Cepheid GeneXpert BCR-ABL assay.

Jobbagy Z, van Atta R, Murphy KM, Eshleman JR, Gocke CD.

J Mol Diagn. 2007 Apr;9(2):220-7.

Research

Alternative Processing of the U2 Small Nuclear RNA Produces a 19–22nt Fragment with Relevance for the Detection of Non-Small Cell Lung Cancer in Human Serum.

Mazières J, Catherine C, Delfour O, Gouin S, Rouquette I, et al.

PLoS ONE 8(3): e60134. March 20, 2013.

The passionate race for miRNA detection and function deciphering.

Delfour O, Vilanova D, Atzorn V, Michot B.

In: Clarke NJ, Sanseau P, editor. *miRNA: Biology, Function and Expression*. DNA Press; 2007. pp. 335–362.



GeneXpert System Technology

GeneXpert Testing: Applications for Clinical Microbiology, Part I.

E. Marlowe, D. Wolk

Clinical Microbiology Newsletter, Volume 30, Issue 23, Dec 2008

GeneXpert Testing: Applications for Clinical Microbiology, Part II.

E. Marlowe, D. Wolk

Clinical Microbiology Newsletter, Volume 30, Issue 24, Dec 2008

Evaluation of the Cepheid GeneXpert system for detecting Bacillus anthracis.

Ulrich MP, Christensen DR, Coyne SR, Craw PD, Henschel EA, Sakai SH, Swenson D, Tholath J, Tsai J, Weir AF, Norwood DA.

J Appl Microbiol. 2006 May;100(5):1011-6.

Technology for automated, rapid, and quantitative PCR or reverse transcription-PCR clinical testing.

Raja S, Ching J, Xi L, Hughes SJ, Chang R, Wong W, McMillan W, Gooding WE, McCarty KS Jr, Chestney M, Luketich JD, Godfrey TE.

Clin Chem. 2005 May;51(5):882-90. Epub 2005 Mar 3.

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