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A systematic review on prevention of Methicillin-Resistant *Staphylococcus aureus* infection by pre-admission screening: The cost effectiveness and practicality

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Tübbicke, A. , Hübner, C. , Kramer, A. (2012) *European Journal of Clinical Microbiology and Infectious Diseases*

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Background: Methicillin Resistant Staphylococcus aureus (MRSA) is a common source of nosocomial infection , which is spreading through the community and hospitals across the countries. The performance of screening program really needs major effort related to laboratory capacity and ethical consideration, among other costly components. Significant literature research was conducted to review the cost , effectiveness and practicality of different methods of pre - admission MRSA screening in the hospital setting. A systematic literature review was conducted with search strategy using the PubMed Medline, Scopus and the Science Direct databases. The relevant data was abstracted from all studies based on various countries which in line with the finalized eligibility criteria. **Results:** PCR method was reported to have high sensitivity with low turnaround time as compared to culture method. A review of selected studies found the increasing annual costs of screening from standard culture, chromogenic agar to rapid PCR. In the meantime, other studies reported the total costs for labor and materials was lower for rapid PCR screening compared to culture methods. The culturing method offers a high level of variability due to time consumption and additional costs. Whereas PCR was reported as advantageous in term of saving time to identify MRSA positive patients, which involved isolation, thus increase the effectiveness of screening programs. It can pick up false negative results by conventional methods in the early condition of disease. **Conclusion:** Most studies verified that PCR is the most accurate method for detection of MRSA with Xpert MRSA having the best performance. Otherwise, oxacillin agar screen was revealed as a good alternative method to PCR. Targeted screening on high risk patients using rapid PCR may be the best choice to be implemented, in order to balance the economic and practicality of screening . We recommend that further clinical studies should be done to provide a sharp evidence of MRSA screening .

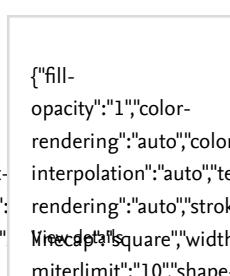
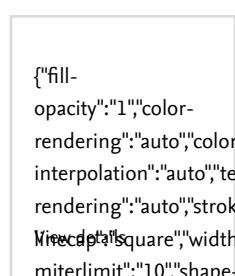
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1 Todar, K.

Todar's Online Textbook of Bacteriology. Cited 312 times.

Accessed 25 August 2013

<http://www.textbookofbacteriology.net/>

2 Heyman, D.L.

(2014) *Control of Communicable Diseases Manual*. Cited 867 times.

20th ed. Washington American Public Health Association (APHA) Press

- 3 Alemu, A.
Screening for MRSA.

(2011) *Nursing standard (Royal College of Nursing (Great Britain): 1987)*, 25 (36), p. 59.
doi: 10.7748/ns.25.36.59.s52

[View at Publisher](#)

- 4 Garnacho-Montero, J., Ortiz-Leyba, C., Herrera-Melero, I., Aldabó-Pallás, T., Cayuela-Dominguez, A., Marquez-Vacaro, J.A., Carballo-Guerrero, J., (...), Garcia-Garmendia, J.L.
Mortality and morbidity attributable to inadequate empirical antimicrobial therapy in patients admitted to the ICU with sepsis: A matched cohort study

(2008) *Journal of Antimicrobial Chemotherapy*, 61 (2), pp. 436-441. Cited 147 times.
doi: 10.1093/jac/dkm460

[View at Publisher](#)

- 5 Kuti, E.L., Patel, A.A., Coleman, C.I.
Impact of inappropriate antibiotic therapy on mortality in patients with ventilator-associated pneumonia and blood stream infection: A meta-analysis

(2008) *Journal of Critical Care*, 23 (1), pp. 91-100. Cited 118 times.
doi: 10.1016/j.jcrc.2007.08.007

[View at Publisher](#)

- 6 Schramm, G.E., Johnson, J.A., Doherty, J.A., Micek, S.T., Kollef, M.H.
Methicillin-resistant Staphylococcus aureus sterile-site infection: The importance of appropriate initial antimicrobial treatment

(2006) *Critical Care Medicine*, 34 (8), pp. 2069-2074. Cited 127 times.
doi: 10.1097/01.CCM.0000227655.41566.3E

[View at Publisher](#)

- 7 Grundmann, H., Aires-de-Sousa, M., Boyce, J., Tiemersma, E.
Emergence and resurgence of methicillin-resistant Staphylococcus aureus as a public-health threat ([Open Access](#))

(2006) *Lancet*, 368 (9538), pp. 874-885. Cited 805 times.
<http://www.journals.elsevier.com/the-lancet/>
doi: 10.1016/S0140-6736(06)68853-3

[View at Publisher](#)

- 8 Keshtgar, J.M.R.S., Khalili, A., Coen, P.G., Carder, C., Macrae, B., Jeanes, A., Folan, P., (...), Wilson, A.P.R.
Impact of rapid molecular screening for methicillin-resistant Staphylococcus aureus in surgical wards

(2008) *British Journal of Surgery*, 95 (3), pp. 381-386. Cited 51 times.
doi: 10.1002/bjs.6013

[View at Publisher](#)

- 9 Conterno, L.O., Shymanski, J., Ramotar, K., Toye, B., Van Walraven, C., Coyle, D., Roth, V.R.

Real-time polymerase chain reaction detection of methicillin-resistant *Staphylococcus aureus*: Impact on nosocomial transmission and costs

(2007) *Infection Control and Hospital Epidemiology*, 28 (10), pp. 1134-1141. Cited 50 times.
doi: 10.1086/520099

[View at Publisher](#)

-
- 10 Noskin, G.A., Rubin, R.J., Schentag, J.J., Kluytmans, J., Hedblom, E.C., Jacobson, C., Smulders, M., (...), Bharmal, M.

Budget impact analysis of rapid screening for *Staphylococcus aureus* colonization among patients undergoing elective surgery in US hospitals

(2008) *Infection Control and Hospital Epidemiology*, 29 (1), pp. 16-24. Cited 20 times.
doi: 10.1086/524327

[View at Publisher](#)

-
- 11 Bühlmann, M., Bögli-Stuber, K., Droz, S., Mühlemann, K.

Rapid screening for carriage of methicillin-resistant *Staphylococcus aureus* by PCR and associated costs
([Open Access](#))

(2008) *Journal of Clinical Microbiology*, 46 (7), pp. 2151-2154. Cited 50 times.
<http://jcm.asm.org/cgi/reprint/46/7/2151>
doi: 10.1128/JCM.01957-07

[View at Publisher](#)

-
- 12 Murthy, A., De Angelis, G., Pittet, D., Schrenzel, J., Uckay, I., Harbarth, S.

Cost-effectiveness of universal MRSA screening on admission to surgery ([Open Access](#))

(2010) *Clinical Microbiology and Infection*, 16 (12), pp. 1747-1753. Cited 55 times.
[http://onlinelibrary.wiley.com.ezlib.iium.edu.my/journal/10.1111/\(ISSN\)1469-0691](http://onlinelibrary.wiley.com.ezlib.iium.edu.my/journal/10.1111/(ISSN)1469-0691)
doi: 10.1111/j.1469-0691.2010.03220.x

[View at Publisher](#)

-
- 13 Adaleti, R., Nakipoglu, Y., Karahan, Z.C., Tasdemir, C., Kaya, F.

Comparison of polymerase chain reaction and conventional methods in detecting methicillin-resistant *Staphylococcus aureus*. ([Open Access](#))

(2008) *Journal of infection in developing countries*, 2 (1), pp. 46-50. Cited 22 times.
doi: 10.3855/jidc.321

[View at Publisher](#)

-
- 14 Akpaka, P.E., Kissoon, S., Rutherford, C., Swantson, W.H., Jayaratne, P.

Evaluation of methods and costs for detecting methicillin-resistant *Staphylococcus aureus* isolates from clinical specimens at Regional Hospitals in Trinidad and Tobago

(2008) *West Indian Medical Journal*, 57 (1), pp. 24-27. Cited 4 times.

- 15 Barkatali, B.M., Heywood, N., White, R., Paton, R.W.
MRSA screening in orthopaedic surgery: Clinically valuable and cost effective ? A prospective analysis of 8,867 patients
(2013) *Acta Orthopaedica Belgica*, 79 (4), pp. 463-469. Cited 8 times.
-
- 16 Boyce, J.M., Havill, N.L.
Comparison of BD GeneOhm methicillin-resistant *Staphylococcus aureus* (MRSA) PCR versus the CHROMagar MRSA assay for screening patients for the presence of MRSA strains ([Open Access](#))
(2008) *Journal of Clinical Microbiology*, 46 (1), pp. 350-351. Cited 65 times.
doi: 10.1128/JCM.02130-07
[View at Publisher](#)
-
- 17 Clancy, M., Graepel, A., Wilson, M., Douglas, I., Johnson, J., Price, C.S.
Active screening in high-risk units is an effective and cost-avoidant method to reduce the rate of methicillin-resistant *Staphylococcus aureus* infection in the hospital
(2006) *Infection Control and Hospital Epidemiology*, 27 (10), pp. 1009-1017. Cited 93 times.
doi: 10.1086/507915
[View at Publisher](#)
-
- 18 Creamer, E., Humphreys, H.
The value of universal versus targeted screening for methicillin-resistant *staphylococcus aureus* among admission patients ([Open Access](#))
(2012) *Infection Control and Hospital Epidemiology*, 33 (1), pp. 102-103.
<http://www.jstor.org.ezlib.iium.edu.my/stable/pdfplus/10.1086/663647.pdf>
doi: 10.1086/663647
[View at Publisher](#)
-
- 19 Cunha, B.A., Schoch, P., Abruzzo, E.D.
Clinical- and cost-ineffectiveness of targeted methicillin-resistant *Staphylococcus aureus* screening of high-risk patients admitted to a low-prevalence teaching hospital
(2013) *American Journal of Infection Control*, 41 (11), pp. 1137-1138.
doi: 10.1016/j.ajic.2013.03.297
[View at Publisher](#)
-
- 20 Danial, J., Noel, M., Templeton, K.E., Cameron, F., Mathewson, F., Smith, M., Cepeda, J.A.
Real-time evaluation of an optimized real-time PCR assay versus Brilliance chromogenic MRSA agar for the detection of methicillin-resistant *Staphylococcus aureus* from clinical specimens ([Open Access](#))
(2011) *Journal of Medical Microbiology*, 60 (3), pp. 323-328. Cited 12 times.
<http://jmm.sgmjournals.org/cgi/reprint/60/3/323>
doi: 10.1099/jmm.0.025288-0
[View at Publisher](#)
-

- 21 French, G.L.
Methods for screening for methicillin-resistant *Staphylococcus aureus* carriage ([Open Access](#))
(2009) *Clinical Microbiology and Infection*, 15 (SUPPL. 7), pp. 10-16. Cited 37 times.
[http://onlinelibrary.wiley.com.ezlib.iium.edu.my/journal/10.1111/\(ISSN\)1469-0691](http://onlinelibrary.wiley.com.ezlib.iium.edu.my/journal/10.1111/(ISSN)1469-0691)
doi: 10.1111/j.1469-0691.2009.03092.x
[View at Publisher](#)
-
- 22 Gavaldà, L., Masuet, C., Beltran, J., Garcia, M., Garcia, D., Sirvent, J.M., Ramon, J.M.
Comparative cost of selective screening to prevent transmission of methicillin-resistant *Staphylococcus aureus* (MRSA), compared with the attributable costs of MRSA infection
(2006) *Infection Control and Hospital Epidemiology*, 27 (11), pp. 1264-1266. Cited 41 times.
doi: 10.1086/507968
[View at Publisher](#)
-
- 23 Giese, A., Bous, J., Werner, S., Lemm, F., Wilhelm, M., Henning, B.F.
Postponing elective hospitalizations for pre-admission MRSA screening and decolonization. A study evaluating eligibility and acceptance among patients of a German university hospital
(2013) *International Journal of Hygiene and Environmental Health*, 216 (2), pp. 126-131. Cited 3 times.
doi: 10.1016/j.ijheh.2012.04.005
[View at Publisher](#)
-
- 24 Girou, E., Azar, J., Wolkenstein, P., Cizeau, F., Brun-Buisson, C., Roujeau, J.-C.
Comparison of systematic versus selective screening for methicillin-resistant *Staphylococcus aureus* carriage in a high-risk dermatology ward
(2000) *Infection Control and Hospital Epidemiology*, 21 (9), pp. 583-587. Cited 54 times.
doi: 10.1086/501807
[View at Publisher](#)
-
- 25 Goldsack, J.C., Deritter, C., Power, M., Spencer, A., Taylor, C.L., Kim, S.F., Kirk, R., (...), Drees, M.
Clinical, patient experience and cost impacts of performing active surveillance on known methicillin-resistant *Staphylococcus aureus* positive patients admitted to medical-surgical units
(2014) *American Journal of Infection Control*, 42 (10), pp. 1039-1043. Cited 17 times.
<http://www.journals.elsevier.com/ajic-american-journal-of-infection-control/>
doi: 10.1016/j.ajic.2014.07.011
[View at Publisher](#)
-

- 26 Gurieva, T., Bootsma, M.C.J., Bonten, M.J.M.
Cost and Effects of Different Admission Screening Strategies to Control the Spread of Methicillin-resistant *Staphylococcus aureus* ([Open Access](#))
(2013) *PLoS Computational Biology*, 9 (2), art. no. e1002874. Cited 15 times.
[http://www.ploscompbiol.org/article/fetchObjectAttachment.action?
uri=info%3Adoi%2F10.1371%2Fjournal.pcbi.1002874&representation=PDF](http://www.ploscompbiol.org/article/fetchObjectAttachment.action?uri=info%3Adoi%2F10.1371%2Fjournal.pcbi.1002874&representation=PDF)
doi: 10.1371/journal.pcbi.1002874
[View at Publisher](#)
-
- 27 Hombach, M., Pfyffer, G.E., Roos, M., Lucke, K.
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 ([Open Access](#))
(2010) *Journal of Clinical Microbiology*, 48 (11), pp. 3882-3887. Cited 58 times.
<http://jcm.asm.org/cgi/reprint/48/11/3882>
doi: 10.1128/JCM.00670-10
[View at Publisher](#)
-
- 28 Hübner, C., Hübner, N.-O., Kramer, A., Flea, S.
Cost-analysis of PCR-guided pre-emptive antibiotic treatment of *Staphylococcus aureus* infections: An analytic decision model
(2012) *European Journal of Clinical Microbiology and Infectious Diseases*, 31 (11), pp. 3065-3072. Cited 2 times.
doi: 10.1007/s10096-012-1666-y
[View at Publisher](#)
-
- 29 Huletsky, A., Lebel, P., Picard, F.J., Bernier, M., Gagnon, M., Boucher, N., Bergeron, M.G.
Identification of methicillin-resistant *Staphylococcus aureus* carriage in less than 1 hour during a hospital surveillance program ([Open Access](#))
(2005) *Clinical Infectious Diseases*, 40 (7), pp. 976-981. Cited 100 times.
doi: 10.1086/428579
[View at Publisher](#)
-
- 30 Kang, J.H., Mandsager, P., Biddle, A.K., Weber, D.J.
Cost-effectiveness analysis of active surveillance screening for methicillin-resistant *Staphylococcus aureus* in an academic hospital setting
(2012) *Infection Control and Hospital Epidemiology*, 33 (5), pp. 477-486. Cited 25 times.
<http://www.jstor.org.ezlib.iium.edu.my/stable/pdfplus/10.1086/665315.pdf>
doi: 10.1086/665315
[View at Publisher](#)
-
- 31 Leonhardt, K.K., Yakusheva, O., Phelan, D., Reeths, A., Hosterman, T., Bonin, D., Costello, M.
Clinical effectiveness and cost benefit of universal versus targeted methicillin-resistant *Staphylococcus aureus* screening upon admission in hospitals
(2011) *Infection Control and Hospital Epidemiology*, 32 (8), pp. 797-803. Cited 35 times.
<http://www.jstor.org.ezlib.iium.edu.my/stable/pdfplus/10.1086/660875.pdf>
doi: 10.1086/660875
[View at Publisher](#)

- 32 Mathews, A.A., Thomas, M., Appalaraju, B., Jayalakshmi, J. Evaluation and comparison of tests to detect methicillin resistant *S. aureus* ([Open Access](#))
(2010) *Indian Journal of Pathology and Microbiology*, 53 (1), pp. 79-82. Cited 29 times.
doi: 10.4103/0377-4929.59189
[View at Publisher](#)
-
- 33 McGinigle, K.L., Gourlay, M.L., Buchanan, I.B. The use of active surveillance cultures in adult intensive care units to reduce methicillin-resistant *Staphylococcus aureus*-related morbidity, mortality, and costs: A systematic review ([Open Access](#))
(2008) *Clinical Infectious Diseases*, 46 (11), pp. 1717-1725. Cited 95 times.
doi: 10.1086/587901
[View at Publisher](#)
-
- 34 Nixon, M., Jackson, B., Varghese, P., Jenkins, D., Taylor, G. Methicillin-resistant *Staphylococcus aureus* on orthopaedic wards: Incidence, spread, mortality, cost and control
(2006) *Journal of Bone and Joint Surgery - Series B*, 88 (6), pp. 812-817. Cited 80 times.
doi: 10.1302/0301-620X.88B6.17544
[View at Publisher](#)
-
- 35 Nyman, J.A., Lees, C.H., Bockstedt, L.A., Filice, G.A., Lexau, C., Lesher, L.J., Como-Sabetti, K., (...), Lynfield, R. Cost of screening intensive care unit patients for methicillin-resistant *Staphylococcus aureus* in hospitals
(2011) *American Journal of Infection Control*, 39 (1), pp. 27-34. Cited 14 times.
doi: 10.1016/j.ajic.2010.09.006
[View at Publisher](#)
-
- 36 Ornskov, D., Kolmos, B., Horn, P.B., Nederby Nielsen, J., Brændslund, I., Schouenborg, P. Screening for methicillin-resistant *Staphylococcus aureus* in clinical swabs using a high-throughput real-time PCR-based method ([Open Access](#))
(2008) *Clinical Microbiology and Infection*, 14 (1), pp. 22-28. Cited 19 times.
[http://onlinelibrary.wiley.com.ezlib.iium.edu.my/journal/10.1111/\(ISSN\)1469-0691](http://onlinelibrary.wiley.com.ezlib.iium.edu.my/journal/10.1111/(ISSN)1469-0691)
doi: 10.1111/j.1469-0691.2007.01880.x
[View at Publisher](#)
-
- 37 Pillai, M.M., Latha, R., Sarkar, G. Detection of methicillin resistance in *Staphylococcus aureus* by polymerase chain reaction and conventional methods: A comparative study
(2012) *J Lab Physicians.*, 4 (2), pp. 83-88. Cited 27 times.

- 38 Polisena, J., Chen, S., Cimon, K., McGill, S., Forward, K., Gardam, M. Clinical effectiveness of rapid tests for methicillin resistant *Staphylococcus aureus* (MRSA) in hospitalized patients: A systematic review ([Open Access](#))

(2011) *BMC Infectious Diseases*, 11, art. no. 336. Cited 38 times.
<http://www.biomedcentral.com/1471-2334/11/336>
doi: 10.1186/1471-2334-11-336

[View at Publisher](#)

-
- 39 Pramodhini, S., Thenmozhivalli, P.R., Selvi, R., Dillirani, V., Vasumathi, A., Agatha, D. Comparison of various phenotypic methods and *mecA* based PCR for the detection of MRSA

(2012) *Journal of Clinical and Diagnostic Research*, 5 (7), pp. 1359-1362. Cited 9 times.
http://www.jcdr.net/articles/PDF/1659/3269_f.pdf

-
- 40 Shariati, L., Validi, M., Tabatabaiefar, M.A., Karimi, A., Nafisi, M.R. Comparison of real-time PCR with disk diffusion, agar screen and E-test methods for detection of methicillin-resistant *staphylococcus aureus*

(2010) *Current Microbiology*, 61 (6), pp. 520-524. Cited 17 times.
doi: 10.1007/s00284-010-9647-9

[View at Publisher](#)

-
- 41 Tübbicke, A., Hübner, C., Kramer, A., Hübner, N.-O., Fleßa, S. Transmission rates, screening methods and costs of MRSA-a systematic literature review related to the prevalence in Germany

(2012) *European Journal of Clinical Microbiology and Infectious Diseases*, 31 (10), pp. 2497-2511. Cited 27 times.
doi: 10.1007/s10096-012-1632-8

[View at Publisher](#)

-
- 42 Tübbicke, A., Hübner, C., Hübner, N.-O., Wegner, C., Kramer, A., Fleßa, S. Cost comparison of MRSA screening and management - A decision tree analysis ([Open Access](#))

(2012) *BMC Health Services Research*, 12 (1), art. no. 438. Cited 30 times.
doi: 10.1186/1472-6963-12-438

[View at Publisher](#)

-
- 43 Uçkay, I., Sax, H., Iten, A., Camus, V., Renzi, G., Schrenzel, J., Perrier, A., (...), Pittet, D. Effect of screening for methicillin-resistant *Staphylococcus aureus* carriage by polymerase chain reaction on the duration of unnecessary preemptive contact isolation ([Open Access](#))

(2008) *Infection Control and Hospital Epidemiology*, 29 (11), pp. 1077-1079. Cited 21 times.
doi: 10.1086/591452

[View at Publisher](#)

- 44 Wassenberg, M.W.M., Kluytmans, J.A.J.W., Box, A.T.A., Bosboom, R.W., Buiting, A.G.M., Van Elzakker, E.P.M., Melchers, W.J.G., (...), Bonten, M.J.M.

Rapid screening of methicillin-resistant *Staphylococcus aureus* using PCR and chromogenic agar: A prospective study to evaluate costs and effects ([Open Access](#))

(2010) *Clinical Microbiology and Infection*, 16 (12), pp. 1754-1761. Cited 73 times.

[http://onlinelibrary.wiley.com.ezlib.iium.edu.my/journal/10.1111/\(ISSN\)1469-0691](http://onlinelibrary.wiley.com.ezlib.iium.edu.my/journal/10.1111/(ISSN)1469-0691)

doi: 10.1111/j.1469-0691.2010.03210.x

[View at Publisher](#)

- 45 Wernitz, M.H., Keck, S., Swidsinski, S., Schulz, S., Veit, S.K.

Cost analysis of a hospital-wide selective screening programme for methicillin-resistant *Staphylococcus aureus* (MRSA) carriers in the context of diagnosis related groups (DRG) payment ([Open Access](#))

(2005) *Clinical Microbiology and Infection*, 11 (6), pp. 466-471. Cited 97 times.

[http://onlinelibrary.wiley.com.ezlib.iium.edu.my/journal/10.1111/\(ISSN\)1469-0691](http://onlinelibrary.wiley.com.ezlib.iium.edu.my/journal/10.1111/(ISSN)1469-0691)

doi: 10.1111/j.1469-0691.2005.01153.x

[View at Publisher](#)

- 46 Wolk, D.M., Marx, J.L., Dominguez, L., Driscoll, D., Schiffman, R.B.

Comparison of MRSASelect agar, CHROMagar methicillin-resistant *Staphylococcus aureus* (MRSA) medium, and Xpert MRSA PCR for detection of MRSA in nares: Diagnostic accuracy for surveillance samples with various bacterial densities ([Open Access](#))

(2009) *Journal of Clinical Microbiology*, 47 (12), pp. 3933-3936. Cited 43 times.

<http://jcm.asm.org/cgi/reprint/47/12/3933>

doi: 10.1128/JCM.00601-09

[View at Publisher](#)

- 47 Van Der Zee, A., Hendriks, W.D.H., Roorda, L., Ossewaarde, J.M., Buitewerf, J.

Review of a major epidemic of methicillin-resistant *Staphylococcus aureus*: The costs of screening and consequences of outbreak management ([Open Access](#))

(2013) *American Journal of Infection Control*, 41 (3), pp. 204-209. Cited 16 times.

<http://www.journals.elsevier.com/ajic-american-journal-of-infection-control/>

doi: 10.1016/j.ajic.2012.02.033

[View at Publisher](#)

- 48 Böcher, S., Smyth, R., Kahlmeter, G., Kerremans, J., Vos, M.C., Skov, R.

Evaluation of four selective agars and two enrichment broths in screening for methicillin-resistant *Staphylococcus aureus* ([Open Access](#))

(2008) *Journal of Clinical Microbiology*, 46 (9), pp. 3136-3138. Cited 32 times.

<http://jcm.asm.org/cgi/reprint/46/9/3136>

doi: 10.1128/JCM.00478-08

[View at Publisher](#)

- 49 Grandin, S., Deschamps, C., Magdoud, F., Zihoune, N., Branger, C., Eveillard, M.

Evaluation of the impact of different lengths of pre-enrichment in a nutritive broth and prolonged incubation of MRSA-ID, a chromogenic agar medium, on its performances for identifying methicillin-resistant *Staphylococcus aureus* in screening samples

(2009) *Pathologie Biologie*, 57 (3), pp. e37-e42. Cited 6 times.
doi: 10.1016/j.patbio.2008.03.008

[View at Publisher](#)

-
- 50 Lee, S., Park, Y.-J., Yoo, J.-H., Kahng, J., Jeong, I.-H., Kwon, Y.-M., Han, K.

Comparison of culture screening protocols for Methicillin-Resistant *Staphylococcus aureus* (MRSA) using a chromogenic agar (MRSA-Select)

(2008) *Annals of Clinical and Laboratory Science*, 38 (3), pp. 254-257. Cited 16 times.

-
- 51 Paule, S.M., Mehta, M., Hacek, D.M., Gonzalzles, T.-M., Robicsek, A., Peterson, L.R.

Chromogenic media vs real-time pcr for nasal surveillance of methicillin-resistant *staphylococcus aureus* impact on detection of mrsa-positive persons ([Open Access](#))

(2009) *American Journal of Clinical Pathology*, 131 (4), pp. 532-539. Cited 48 times.
<http://ajcp.ascpjournals.org/content/131/4/532.full.pdf>
doi: 10.1309/AJCP18ONZUTDUGAQ

[View at Publisher](#)

-
- 52 Hujier, N.S.A., Sharif, F.A.

Detection of methicillin resistant *Staphylococcus aureus* in nosocomial infections in Gaza Strip African

(2008) *J Microbiol Res*, 2, pp. 235-241. Cited 5 times.

-
- 53 Dalla Valle, C., Pasca, M.R., De Vitis, D., Marzani, F.C., Emmi, V., Marone, P.

Control of MRSA infection and colonisation in an intensive care unit by GeneOhm MRSA assay and culture methods ([Open Access](#))

(2009) *BMC Infectious Diseases*, 9, art. no. 137. Cited 12 times.
doi: 10.1186/1471-2334-9-137

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-
- 54 Mimica, M.J., Berezin, E.N., Carvalho, R.L.B., Mimica, I.M., Mimica, L.M.J., Sáfadi, M.A.P., Schneider, E., (...), Caiaffa-Filho, H.H.

Detection of methicillin resistance in *Staphylococcus aureus* isolated from pediatric patients: Is the cefoxitin disk diffusion test accurate enough? ([Open Access](#))

(2007) *Brazilian Journal of Infectious Diseases*, 11 (4), pp. 415-417. Cited 19 times.
<http://www.scielo.br/pdf/bjid/v11n4/a09v11n4.pdf>
doi: 10.1590/S1413-86702007000400009

[View at Publisher](#)

- 55 Moussa, I.M., Shibli, A.M.
Molecular characterization of methicillin-resistant *Staphylococcus aureus* recovered from outpatient clinics in Riyadh, Saudi Arabia
(2009) *Saudi Medical Journal*, 30 (5), pp. 611-617. Cited 31 times.
<http://www.smj.org.sa/PDFFiles/May09/02Molecular20080468.pdf>
-
- 56 Rushdy, A.A., Salama, M.S., Othman, A.S.
Detection of methicillin/oxacillin resistant *Staphylococcus aureus* isolated from some clinical hospitals in Cairo using Meca/Nuc genes and antibiotic susceptibility profile
(2007) *Int J Agric Biol.*, 9 (6), pp. 800-806. Cited 13 times.
-
- 57 Cavassini, M., Wenger, A., Jaton, K., Blanc, D.S., Bille, J.
Evaluation of MRSA-Screen, a simple anti-PBP 2a slide latex agglutination kit, for rapid detection of methicillin resistance in *Staphylococcus aureus* ([Open Access](#))
(1999) *Journal of Clinical Microbiology*, 37 (5), pp. 1591-1594. Cited 114 times.
jcm.asm.org
doi: 10.1128/jcm.37.5.1591-1594.1999
[View at Publisher](#)
-
- 58 Frebourg, N.B., Nouet, D., Lemée, L., Martin, E., Lemeland, J.-F.
Comparison of ATB Staph, Rapid ATB Staph, Vitek, and E-test methods for detection of oxacillin heteroresistance in staphylococci possessing *mecA* ([Open Access](#))
(1998) *Journal of Clinical Microbiology*, 36 (1), pp. 52-57. Cited 75 times.
jcm.asm.org
doi: 10.1128/jcm.36.1.52-57.1998
[View at Publisher](#)
-
- 59 Gerberding, J.L., Miick, C., Liu, H.H., Chambers, H.F.
Comparison of conventional susceptibility tests with direct detection of penicillin-binding protein 2a in borderline oxacillin-resistant strains of *Staphylococcus aureus* ([Open Access](#))
(1991) *Antimicrobial Agents and Chemotherapy*, 35 (12), pp. 2574-2579. Cited 76 times.
doi: 10.1128/AAC.35.12.2574
[View at Publisher](#)
-
- 60 Knapp, C.C., Ludwig, M.D., Washington, J.A., Chambers, H.F.
Evaluation of Vitek GPS-SA card for testing of oxacillin against borderline-susceptible staphylococci that lack *mec* ([Open Access](#))
(1996) *Journal of Clinical Microbiology*, 34 (7), pp. 1603-1605. Cited 28 times.
jcm.asm.org
doi: 10.1128/jcm.34.7.1603-1605.1996
[View at Publisher](#)
-

- 61 Louie, L., Matsumura, S.O., Choi, E., Louie, M., Simor, A.E.
Evaluation of three rapid methods for detection of methicillin resistance in *Staphylococcus aureus*
(2000) *Journal of Clinical Microbiology*, 38 (6), pp. 2170-2173. Cited 141 times.
jcm.asm.org
doi: 10.1128/JCM.38.6.2170-2173.2000
[View at Publisher](#)
-
- 62 Resende, C.A., Figueiredo, A.M.S.
Discrimination of methicillin-resistant *Staphylococcus aureus* from borderline-resistant and susceptible isolates by different methods ([Open Access](#))
(1997) *Journal of Medical Microbiology*, 46 (2), pp. 145-149. Cited 27 times.
<http://jmm.sgmjournals.org/>
doi: 10.1099/00222615-46-2-145
[View at Publisher](#)
-
- 63 Swenson, J.M., Spargo, J., Tenover, F.C., Ferraro, M.J.
Optimal inoculation methods and quality control for the NCCLS oxacillin agar screen test for detection of oxacillin resistance in *Staphylococcus aureus* ([Open Access](#))
(2001) *Journal of Clinical Microbiology*, 39 (10), pp. 3781-3784. Cited 36 times.
doi: 10.1128/JCM.39.10.3781-3784.2001
[View at Publisher](#)
-
- 64 Fang, H., Hedin, G.
Rapid screening and identification of methicillin-resistant *Staphylococcus aureus* from clinical samples by selective-broth and real-time PCR assay ([Open Access](#))
(2003) *Journal of Clinical Microbiology*, 41 (7), pp. 2894-2899. Cited 144 times.
doi: 10.1128/JCM.41.7.2894-2899.2003
[View at Publisher](#)
-
- 65 Niesters, H.G.M.
Molecular and diagnostic clinical virology in real time ([Open Access](#))
(2004) *Clinical Microbiology and Infection*, 10 (1), pp. 5-11. Cited 81 times.
[http://onlinelibrary.wiley.com.ezlib.iium.edu.my/journal/10.1111/\(ISSN\)1469-0691](http://onlinelibrary.wiley.com.ezlib.iium.edu.my/journal/10.1111/(ISSN)1469-0691)
doi: 10.1111/j.1469-0691.2004.00699.x
[View at Publisher](#)
-
- 66 Krishna, B.V.S., Smith, M., McIndoe, A., Gibb, A.P., Dave, J.
Evaluation of Chromogenic MRSA medium, MRSASelect and Oxacillin Resistance Screening Agar for the detection of methicillin-resistant *Staphylococcus aureus*
(2008) *Journal of Clinical Pathology*, 61 (7), pp. 841-843. Cited 11 times.
doi: 10.1136/jcp.2008.055376
[View at Publisher](#)

67 Jeyaratnam, D., Whitty, C.J.M., Phillips, K., Liu, D., Orezzi, C., Ajoku, U., French, G.L.

Impact of rapid screening tests on acquisition of meticillin resistant *Staphylococcus aureus*: Cluster randomised crossover trial ([Open Access](#))

(2008) *BMJ*, 336 (7650), pp. 927-930. Cited 109 times.
doi: 10.1136/bmj.39525.579063.BE

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