	Antimicrobial Susceptibilities of Selected Pathogens, 1999 MINNES OTA DEPARTMENT OF HEALTH Sampling Methodology † all isolates tested * ~ 20% sample of statewide isolates received at MI * all isolates tested from 7-county metropolitan are v isolates from a normally sterile site No. of Isolates Tested	ы 🕺	99 Salmonella typhimurium ²⁴	Other <i>Salmonella</i> spp. (non-typhoidal) ²	Shigella spp.	Oses Neisseria gonorrhoeae ³	95 Neisseria meningitidis^{4†}7	Group A streptococci ⁵ †	Group B streptococci ⁶	Streptococcus pneumoniae 7**/	Mycobacterium tuberculosis ^{8†}	
ics		V////	1 00	I 00	45	% Susc	ceptible	1 400	1 400	V////	V////	
	ampicillin		60	86	15			100	100			
3-lactam antibiotics	penicillin	- <i>\}}}</i>				////	98	100	100	76		
anti	cefuroxime sodium	-4///				100				81		
tam	cefotaxime	_{////					100	100	100	83		
3-lac	ceftriaxone		100	95	100	100	100					
	meropenem	_{////					100			83		
Other antibiotics	levofloxacin		V////	////	V////	V////	V////	V////	V////	100		
	ciprofloxacin	82	100	100	100	100	100			////		
	chloramphenicol	////	75	95	80	/////	100			98		
	clindamycin		/////	////	////		////	100	87	98		
	erythromycin	100						95	79	78		
	gentamicin	98						7777	7///	7777		
	tetracycline	48								91		
	trimethoprim/sulfamethoxazole		96	100	75	<i>\////</i>	56			67		
	vancomycin		<i>\////</i>		<i>\////</i>	<i>\////</i>		100	100	100		
	ethambutol										98	
ics	isoniazid										88	
antibiotics	pyrazinamide										99	
ant	rifampin						100				98	
TB	streptomycin										89	
Trends, Comments and Other Pathogens									<i>V / / / /</i>	<i>V / / / /</i>		
1	Campylobacter spp.	< 20% of isolates from patients returning from foreign travel were susceptible to quinolones. Susceptibilities were determined using 1999 NCCLS breakpoints for Enterobacteriaceae. Susceptibility for erythromycin was based on an MIC ≤4 µg/ml.										
2	Samonena spp.	Antibiotic treatment for enteric salmonellosis generally is not recommended. 2/43 Salmonella spp. isolates were intermediate to ceftriaxone.										
3		250 isolates comprise 8.8% of total (2,835) cases reported. Also, all isolates tested were susceptible to cefpodoxime, cefixime and spectinomycin.										
4		Provisional breakpoints from CDC. MIC ≤0.06 to penicillin considered susceptible. One isolate had a MIC of 0.12, which is considered intermediate to penicillin.										
5	Group A streptococci	Susceptibility testing was also done on 514 pharyngeal (non-invasive) GAS isolates from five clinical labs (three were in metro area). 100% were susceptible to clindamycin and 98% were susceptible to erythromycin.										
6	Group B streptococci (GBS)	83% early-onset and late-onset infant cases, invasive maternal cases, and 84% of other invasive GBS cases tested. 86% (38/44) of infant and maternal isolates were susceptible to clindamycin and 80% (35/44) were susceptible to erythromycin.										
7		8% had intermediate-level and 16% had high-level resistance to penicillin; 13% had intermediate-level and 4% had high-level resistance to cefotaxime.										
8	Mycobacterium tuberculosis (TB)	National guidelines recommend initial 4-drug therapy where resistance to isoniazid (INH) exceeds 4%. In Minnesota, 12% of <i>M. tuberculosis</i> isolates were INH-resistant. Four cases of multi-drug resistant TB (i.e., resistant to INH and rifampin) were identified.										
	Bordetella pertussis	The first erythromycin-resistant <i>B. pertussis</i> in MN was identified in 1999. The remaining 80 isolates were susceptible to erythromycin by provisional CDC breakpoints. Erythromycin remains the drug of choice for treatment and prophylaxis of pertussis.										
	Escherichia coli O157:H7 Antibiotic treatment for E. coli O157:H7 infection is not recommended.											
_	Methicillin-resistant Staphylococcus aureus (MRSA)											

Reportable Diseases, MN Rule #4605.7040

Foodborne, Vectorborne and Zoonotic Diseases

Amebiasis (Entamoeba histolytica)

Anthrax (Bacillus anthracis) a

Babesiosis (Babesia spp.)

Botulism (Clostridium botulinum) a

Brucellosis (Brucella spp.) q

Campylobacteriosis (Campylobacter spp.) b

Cat scratch disease (infection caused by Bartonella spp.)

Cholera (Vibrio cholerae) a,b

Cryptosporidiosis (Cryptosporidium parvum)

Dengue virus infection

Diphyllobothrium latum infection

Ehrlichiosis (Ehrlichia spp.)

Encephalitis (caused by viral agents) q

Enteric *E. coli* infection (*E. coli* O157:H7 and other pathogenic *E. coli* from gastrointestinal infections) **b**

Giardiasis (Giardia lamblia)

Hantavirus infection g

Hemolytic uremic syndrome

Leptospirosis (Leptospira interrogans)

Listeriosis (*Listeria monocytogenes*) **b**

Lyme disease (Borrelia burgdorferi)

Malaria (Plasmodium spp.)

Plaque (Yersinia pestis) q

Psittacosis (Chlamydia psittaci)

Q fever (Coxiella burnetii) q

Rabies (animal and human cases and suspects) a

Rocky Mountain spotted fever (Rickettsia spp., R. canada)

Salmonellosis, including typhoid (Salmonella spp.) b

Shigellosis (Shigella spp.) b

Toxoplasmosis

Trichinosis (Trichinella spiralis)

Tularemia (Francisella tularensis) q

Typhus (Rickettsia spp.)

Yellow fever

Yersiniosis (Yersinia spp.) b

- a Report immediately by telephone 612-676-5414 or 877-676-5414
- b Submit isolates to the MDH. If a rapid, non-culture assay is used for diagnosis, we request that positives be cultured, and isolates submitted. If not possible, please send specimens, enrichment broth, or other appropriate material
- c Isolates are considered to be from invasive disease if they are isolated from normally sterile sites, i.e. blood, CSF, joint fluid,..etc.

Invasive Bacterial Diseases

Haemophilus influenzae disease (all invasive disease) b,c
Meningitis (saused by Haemophilus influenzae b, Neisseria
other bacterial adentifiertococcus pneumoniae b, or viral or

Meningococcemia (Neisseria meningitidis) b,g Streops ครุสโต้เรตละคู่เสปตรงคลุที่ disease caused by S. pneumoniae) b,c

Toxic shock syndrome b

Vaccine Preventable Disease and Tuberculosis

Diphtheria (Corynebacterium diphtheriae) b

Hepatitis (all primary viral types including A,B,C,D, and E)

Influenza (unusual case incidence or lab confirmed cases) d

Measles (Rubeola) a

Mumps a

Pertussis (Bordetella pertussis) a,b

Poliomyelitis a,d

Rubella and congenital rubella syndrome

Tetanus (Clostridium tetani)

Tuberculosis (Mycobacterium tuberculosisand M. bovis) b

Sexually Transmitted Diseases and Retroviral Infections

Chancroid (Haemophilus ducreyi) a,e

Chlamydia trachomatis infections e

Gonorrhea (Neisseria gonorrhoeae) e

Human immunodeficiency virus (HIV) infection,

including Acquired Immunodeficiency Syndrome (AIDS) f

Retrovirus infection (other than HIV)

Syphilis (Treponema pallidum) a.e

Other Conditions

Agents of bioterrorism q

Blastomycosis (Blastomyces dermatitidis)

Histoplasmosis (Histoplasma capsulatum)

Increased incidence of any illness beyond expectations

Kawasaki disease

Legionellosis (Legionella spp.) d

Leprosy (Mycobacterium leprae)

Reve syndrome

Rheumatic fever (cases meeting the Jones Criteria only)

Staphlococcus aureus(only death or serious illness due to methicillinresistant S. aureus) b

Vancomycin Intermediate/Resistant $Staphylococcus\ aureus\ {\bf d}$

Unexplained deaths **b** and serious illness **d** (possibly due to infectious cause)

- d Submission of isolates to MDH is requested, but not required by rule
- e Report on separate Sexually Transmitted Disease Report Card
- f Report on separate HIV Report Card
- g Requested to report immediately by telephone; reporting rule change expected in 2000

Antimicrobial Susceptibilities of Selected Pathogens 1999



Minnesota Department of Health 717 Delaware Street SE Minneapolis, MN 55414 www.health.state.mn.us

To Report a Case:

Fill out a Minnesota Department of Health case report form and mail to the above address. For diseases that require immediate reporting, or for questions about reporting, call the Acute Disease Epidemiology Section at: 612-676-5414 or 877-676-5414 or fax form to 612-676-5743.

To Send an Isolate to MDH:

Send isolates by U.S. mail using approved containers to the above address. If using a courier, isolates should be sent to 717 Delaware Street SE, Minneapolis, MN 55414. To order pre-paid etiologic agent mailers, or for other assistance, call the Public Health Laboratory Specimen Handling Unit at: 612-676-5396.