	Antimicrobial Susceptible of Selected Pathogens, 2 THE FORTAL Sampling Methodology all isolates tested 1 isolate tested per week at MDH ~10% sample of statewide isolates rece all isolates tested from 7-county metro isolates from a normally sterile site No. of Isolates Tested	2000	Campylobacter spp. 1*	Salmonella typhimurium ^{2†}	Other <i>Salmonella</i> serotypes (non-typhoidal) ²	⊗ <i>Shigella</i> spp.	955 Neisseria gonorrhoeae	© Neisseria meningitidis⁴1√	Group A Streptococcus [†]	Group B Streptococcus ^{5V}	Streptococcus pneumoniae 6***	Mycobacterium tuberculosis ^{7†}	
_			V////	V////	////	////	% Sus	eptible	V////	V////		V////	
,,	amoxicillin								<i>////</i>	1////	89		
otics	ampicillin			61 ////	89 /////	6 /////		////	100	100	72		
lactam antibiotics	penicillin						////	95	100	100	73		
	cefuroxime sodium						100	////	////	////	77		
lacta	cefotaxime							100	100	100	83		
β-	ceftriaxone			98	92	100	100	100					
	meropenem							100			80		
	levofloxacin										99		
Other antibiotics	ciprofloxacin		89¹	100	100	100	99	100					
	chloramphenicol			72	89	92		100		Y ////	98		
	clindamycin								100	88	97		
	erythromycin		98				////		96	77	74		
	gentamicin		92										
ō	tetracycline		43								91		
	trimethoprim/sulfamethoxazole		/////	93	100	90		64			66		
antibiotics	vancomycin			////				////	100	100	100		
	athombutol		7777	7777	7777	7777	7777	7777	7777	/////	/////	99	
	ethambutol											99 84	
												97	
	pyrazinamide rifampin							100				99	
TB	streptomycin							/////				83	
												03	
	Trends, Comments, and Other Pathogens Note that ciprofloxacin susceptibility was determined for all isolates received (n=1,028) rather than												
1	Campylobacter spp.	1 isolate per week. Less than 40% of isolates from patients re susceptible to quinolones. Susceptibilities were determined usin Enterobacteriaceae. Susceptibility for erythromycin was based of							returning sing 200	eturning from foreign travel wereing 2000 NCCLS breakpoints for			
2	Salmonella spp.	Antibiotic treatment for enteric salmonellosis generally is not recommended.											
3	Neisseria gonorrhoeae	255 isolates comprise 8% of total (3,163) cases reported. Also, all isolates tested were susceptible to cefpodoxime, cefixime, and spectinomycin. Two isolates were found to have intermediate susceptibility to ciprofloxacin. No decreased susceptibility to azithromycin was detected in 247 MN isolates tested through another surveillance system (GISP) using a CDC provisional breakpoint of 1.0 μg/ml.											
4	Neisseria meningitidis	Provisional breakpoints from CDC. MIC ≤0.06 µg/ml to penicillin was considered susceptible. In 2000, one isolate had intermediate susceptibility to penicillin (MIC of 0.25 µg/ml).											
5	Group B Streptococcus (GBS)	76% (25/33) of early-onset infant, 74% (17/23) of late-onset infant, 60% (9/15) of maternal, and 78% (175/223) of other invasive GBS cases were tested. 86% (44/51) of infant and maternal case isolates were susceptible to clindamycin, and 80% (41/51) were susceptible to erythromycin.											
6	Streptococcus pneumoniae	10% (41/411) had intermediate susceptibility, and 17% (68/411) were resistant to penicillin; 10% (41/411) had intermediate susceptibility, and 7% (28/411) were resistant to cefotaxime. Breakpoints for amoxicillin (susceptible $\leq 2 \mu$ g/ml; intermediate = 4 μ g/ml; resistant $\geq 8 \mu$ g/ml), were provisional in 2000 and officially adopted by NCCLS in 2001. Using these criteria, 3% (12/411) had intermediate susceptibility, and 8% (31/411) were resistant to amoxicillin. Isolates were screened for resistance (high-level) to rifampin at a single MIC (4 μ g/ml); all were $\leq 4 \mu$ g/ml.											
7	Mycobacterium tuberculosis (TB)	National guidelines recommend initial 4-drug therapy where resistance to isoniazid (INH) exceeds 4%. In Minnesota, 16% of <i>M. tuberculosis</i> isolates were INH-resistant. One case of multi-drug resistant TB (i.e., resistant to INH and rifampin) was identified.											
	Bordetella pertussis	189 isolates were received and tested for erythromycin susceptibility using provisional CDC breakpoints; none were resistant.											
	Escherichia coli O157:H7	Antibiotic treatment for <i>E. coli</i> O157:H7 infection is not recommended.											
	Staphylococcus aureus (VISA/GISA)	In 2000, a Minnesota resident became the fifth person in the U.S. with a vancomycin- or glycopeptide-intermediate <i>S. aureus</i> (VISA or GISA) infection. Like other VISA patients, this patient was on dialysis and had received prolonged vancomycin therapy. VISA/GISA strains have a vancomycin MIC of 8-16 μg/ml by broth microdilution. However, all <i>S. aureus</i> isolates with vancomycin MICs ≥4 μg/ml should be referred to MDH for further testing, since commercial susceptibility panels may underestimate the true vancomycin MIC.											

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.) g

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) g

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

Invasive Bacterial Diseases

Haemophilus influenzae disease (all invasive disease) b,c Mennellidis caused by Haemophilus influenzae b, Neisseria other bacterial agentistreptococcus pneumoniae b, or viral or

Meningococcemia (*Neisseria meningitidis*) **b,g** ମେଧ୍ୟର ପ୍ରଥମ ଗିଞ୍ଚୟଥେ ବ୍ୟମନା ହଣ୍ଡ disease caused by

S. pneumoniae) b.c

Toxic shock syndrome b

Vaccine Preventable Diseases

Diphtheria (Corvnebacterium diphtheriae) b

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

Influenza (unusual case incidence or lab confirmed cases) $\boldsymbol{\mathsf{d}}$

Measles (Rubeola) a

Mumps a

Pertussis (Bordetella pertussis) a,b

Poliomyelitis a,d

Rubella and congenital rubella syndrome

Tetanus (Clostridium tetani)

Sexually Transmitted Diseases and Retroviral Infections

Chancroid (Haemophilus ducreyi) a,e

Chlamydia trachomatis infections e

Gonorrhea (Neisseria gonorrhoeae) e

HIDGHAHINGNARCHAITEATILITEMEN SOPRETENIE (AIDS)

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)

Reye syndrome

Rheumatic fever (cases meeting the Jones Criteria only)

Staphylococcus aureus (only death or serious illness due to methicillin-resistant S. aureus) b

methicilin-resistant 3. aureus) D

Vancomycin Intermediate/Resistant Staphylococcus aureus d
Unexplained deaths b and serious illness d (possibly due to
infectious cause)

Tuberculosis (Mycobacterium tuberculosis and M. bovis) 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. Please call the MDH Public Health Laboratory at 612-676-5938 for instructions
- c Isolates are considered to be from invasive disease if they are isolated from normally sterile sites, e.g. blood, CSF, joint fluid, etc.
- 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 2001

Antimicrobial Susceptibilities of Selected Pathogens 2000



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.

The MDH Antibiogram is available on the MDH Web site (http://www.health.state.mn.us). Laminated copies can be ordered from: Antibiogram, Minnesota Dept. of Health, Acute Disease Epidemiology Section, 717 Delaware St. SE, Minneapolis, MN 55414.