

Antimicrobial Resistant Phenotype Definitions

NHSN Analysis Reports for AR Option data

Phenotype Name	Phenotype Code	Phenotype Definition
Methicillin-resistant <i>Staphylococcus aureus</i>	MRSA_AR	<i>Staphylococcus aureus</i> that has tested Resistant (R) to at least one of the following: oxacillin or ceftiofuran
Carbapenem-resistant Enterobacteriaceae (expanded)	CREexpanded_AR	Any <i>Citrobacter amalonaticus</i> , <i>Citrobacter freundii</i> , <i>Citrobacter koseri</i> , <i>Enterobacter</i> spp., <i>E. coli</i> , <i>Klebsiella oxytoca</i> , <i>Klebsiella pneumoniae</i> , and <i>Serratia marcescens</i> that has tested Resistant (R) to at least one of the following: imipenem, meropenem, doripenem, or ertapenem OR Any <i>Proteus mirabilis</i> , <i>Proteus penneri</i> , <i>Proteus vulgaris</i> , and <i>Morganella morganii</i> that has tested Resistant (R) to at least one of the following: meropenem, doripenem, or ertapenem
Carbapenem-resistant Enterobacteriaceae (<i>E. coli</i> , <i>Klebsiella</i> , or <i>Enterobacter</i>)	CREall_AR	Any <i>Escherichia coli</i> , <i>Klebsiella oxytoca</i> , <i>Klebsiella pneumoniae</i> , or <i>Enterobacter</i> spp. that has tested Resistant (R) to at least one of the following: imipenem, meropenem, doripenem, or ertapenem
Carbapenem-resistant <i>E.coli</i>	CREecoli_AR	Any <i>Escherichia coli</i> that has tested Resistant (R) to at least one of the following: imipenem, meropenem, doripenem, or ertapenem
Carbapenem-resistant <i>Enterobacter</i> spp.	CREenterobacter_AR	Any <i>Enterobacter</i> spp. that has tested Resistant (R) to at least one of the following: imipenem, meropenem, doripenem, or ertapenem
Carbapenem-resistant <i>Klebsiella pneumoniae/oxytoca</i>	CREklebsiella_AR	Any <i>Klebsiella oxytoca</i> or <i>Klebsiella pneumoniae</i> that has tested Resistant (R) to at least one of the following: imipenem, meropenem, doripenem, or ertapenem



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Carbapenem-non-susceptible <i>Pseudomonas aeruginosa</i>	carbNS_PA_AR	<i>Pseudomonas aeruginosa</i> that has tested either Intermediate (I) or Resistant (R) to at least one of the following: imipenem, meropenem, or doripenem
Extended-spectrum cephalosporin-resistant <i>E.coli</i>	ESCecoli_AR	Any <i>Escherichia coli</i> that has tested Resistant (R) to at least one of the following: cefepime, ceftriaxone, cefotaxime, or ceftazidime.
Extended-spectrum cephalosporin-resistant <i>Klebsiella pneumoniae/oxytoca</i>	ESCklebsiella_AR	Any <i>Klebsiella oxytoca</i> or <i>Klebsiella pneumoniae</i> that has tested Resistant (R) to at least one of the following: cefepime, ceftriaxone, cefotaxime, or ceftazidime.
Multidrug-resistant <i>Pseudomonas aeruginosa</i>	MDR_PA_AR	<p><i>Pseudomonas aeruginosa</i> that has tested either Intermediate (I) or Resistant (R) to at least one drug in at least three of the following five categories:</p> <ul style="list-style-type: none"> • Extended-spectrum cephalosporin (cefepime, ceftazidime) • Fluoroquinolones (ciprofloxacin, levofloxacin) • Aminoglycosides (amikacin, gentamicin, tobramycin) • Carbapenems (imipenem, meropenem, doripenem) • Piperacillin/tazobactam
Carbapenem-non-susceptible <i>Acinetobacter</i> spp.	carbNS_Acine_AR	Any <i>Acinetobacter</i> spp. that has tested either Intermediate (I) or Resistant (R) to at least one of the following: imipenem, meropenem, or doripenem
Multidrug-resistant <i>Acinetobacter</i> spp.	MDR_Acine_AR	<p>Any <i>Acinetobacter</i> spp. that has tested either Intermediate (I) or Resistant (R) to at least one drug in at least three of the following six categories:</p> <ul style="list-style-type: none"> • Extended-spectrum cephalosporin (cefepime, ceftazidime, ceftriaxone, cefotaxime) • Fluoroquinolones (ciprofloxacin, levofloxacin) • Aminoglycosides (amikacin, gentamicin, tobramycin) • Carbapenems (imipenem, meropenem, doripenem) • Piperacillin/tazobactam • Ampicillin/sulbactam



Phenotype Name	Phenotype Code	Phenotype Definition
Vancomycin-resistant <i>Enterococcus faecalis</i>	VREfaecalis_AR	<i>Enterococcus faecalis</i> that has tested Resistant (R) to vancomycin
Vancomycin-resistant <i>Enterococcus faecium</i>	VREfaecium_AR	<i>Enterococcus faecium</i> that has tested Resistant (R) to vancomycin
Fluconazole-resistant <i>Candida albicans</i> / <i>auris</i> / <i>glabrata</i> / <i>parapsilosis</i> / <i>tropicalis</i>	FR_Candi_AR	Any <i>Candida albicans</i> , <i>Candida auris</i> , <i>Candida glabrata</i> , <i>Candida parapsilosis</i> , or <i>Candida tropicalis</i> that has tested Resistant (R) to fluconazole
Drug-resistant <i>Streptococcus pneumoniae</i>	DR_SP_AR	<i>Streptococcus pneumoniae</i> that has tested either Intermediate (I) or Resistant (R) to at least one of the antimicrobials listed in the NHSN AR Option defined drug panel