

Instructions for Completion of Laboratory Record of Primary Blood stream Infection (BSI) Event Form.

Data Field	Instructions for Data Collection
Page 2	
Surveillance date	Write down Surveillance date using the format: mm/yyyy
Facility name	Write down the facility name
Facility code	Write down the Facility code using form A
Number of Pathogens	Write the number of isolated pathogen as recorded in page 1.
Pathogen (s)name(s)	Write the name of the isolated microorganism(s). If the species is not given on the lab report or is not found on the KNHSS pathogen list, then select the “spp” choice for the genus.
Pathogen (s)code(s)	Write the code of each pathogen according to Form D .
MDRO	Check “Yes” and write the code if the isolated organism(s) was/were MDRO of the following, otherwise check “No”. (MRSA): <i>S. aureus</i> cultured from any specimen that tests oxacillin-resistant (R), ceftazidime-resistant, or methicillin-resistant by standard susceptibility testing methods, or any laboratory finding of MRSA (includes but not limited to PCR or other molecular based detection methods). VRE: <i>Enterococcus faecalis</i>, <i>Enterococcus faecium</i>, or <u>any Enterococcus</u> species that is <u>resistant (R)</u> to vancomycin, by standard susceptibility testing methods or a laboratory finding of VRE (includes but not limited to PCR or other molecular based detection methods). ESBL producing Gram negative bacteria: Gram negative spp. producing ESBLs enzymes that mediate resistance to extended-spectrum (third generation) cephalosporins (e.g., ceftazidime, cefotaxime, and

ceftriaxone) and monobactams (e.g., aztreonam) but do not affect cephamycins (e.g., cefoxitin and cefotetan) or carbapenems (e.g., meropenem or imipenem).

CRE: *Escherichia coli*, *Klebsiella oxytoca*, *Klebsiella pneumoniae*, *Klebsiella aerogenes*, *Enterobacter spp.* or any *Enterobacteriaceae spp.* (see table 1 of the “Updated KNHSS MDRO definitions 2020” document for a partial list of *Enterobacteriaceae spp.*) testing resistant (R) to imipenem, meropenem, doripenem, or ertapenem by standard susceptibility testing methods (i.e., minimum inhibitory concentrations of ≥ 4 mcg/mL for doripenem, imipenem and meropenem or ≥ 2 mcg/mL for ertapenem) OR by production of a carbapenemase (specifically, KPC, NDM, VIM, IMP, OXA-48) demonstrated using a recognized test (e.g., polymerase chain reaction, metallo- β -lactamase test, modified-Hodge test, Carba-NP). For ***Morganella morganii*, *Proteus spp* and *Providencia spp.*** that have intrinsic imipenem non-susceptibility, resistance to carbapenems other than imipenem is required.

MDR-*Pseudomonas aeruginosa*: Tested intermediate or resistant (I or R) for at least one agent in at least 3 of the following 5 classes:

β -lactam/ β -lactamase inhibitor combination	Aminoglycosides	Carbapenems	Fluoroquinolones
Piperacillin Piperacillin/tazobactam	Amikacin Gentamicin Tobramycin	Imipenem Meropenem Doripenem	Ciprofloxacin Levofloxacin
Cephalosporins			
Cefepime Ceftazidime			

Carbapenem Non-Susceptible (C-NS) *Pseudomonas aeruginosa*: *Pseudomonas aeruginosa* testing intermediate or resistant (I or R) to imipenem, meropenem or doripenem.

	<p>MDR-<i>Acinetobacter</i> spp.: Any <i>Acinetobacter</i> spp. testing <u>intermediate or resistant (I or R)</u> to at least one agent in at least 3 antimicrobial classes of the following 6 antimicrobial classes:</p> <table border="1" data-bbox="488 541 1435 909"> <thead> <tr> <th data-bbox="488 541 773 669">β-lactam/β-lactamase inhibitor combination</th> <th data-bbox="773 541 1027 669">Aminoglycosides</th> <th data-bbox="1027 541 1209 669">Carbapenems</th> <th data-bbox="1209 541 1435 669">Fluoroquinolones</th> </tr> </thead> <tbody> <tr> <td data-bbox="488 669 773 770">Piperacillin Piperacillin/tazobactam</td> <td data-bbox="773 669 1027 770">Amikacin Gentamicin Tobramycin</td> <td data-bbox="1027 669 1209 770">Imipenem Meropenem Doripenem</td> <td data-bbox="1209 669 1435 770">Ciprofloxacin Levofloxacin</td> </tr> <tr> <th data-bbox="488 770 773 827">Cephalosporins</th> <th data-bbox="773 770 1027 827">Sulbactam</th> <td data-bbox="1027 770 1209 827"></td> <td data-bbox="1209 770 1435 827"></td> </tr> <tr> <td data-bbox="488 827 773 909">Cefepime Ceftazidime</td> <td data-bbox="773 827 1027 909">Ampicillin/sulbactam</td> <td data-bbox="1027 827 1209 909"></td> <td data-bbox="1209 827 1435 909"></td> </tr> </tbody> </table> <p>Carbapenem Non-Susceptible (C-NS) <i>Acinetobacter</i> spp: Any <i>Acinetobacter</i> spp. testing <u>intermediate or resistant (I or R)</u> to imipenem, meropenem or doripenem.</p>	β -lactam/ β -lactamase inhibitor combination	Aminoglycosides	Carbapenems	Fluoroquinolones	Piperacillin Piperacillin/tazobactam	Amikacin Gentamicin Tobramycin	Imipenem Meropenem Doripenem	Ciprofloxacin Levofloxacin	Cephalosporins	Sulbactam			Cefepime Ceftazidime	Ampicillin/sulbactam		
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Date of sampling	Write the date of sample taken using this format: dd/mm/yyyy.																
Type of infection	Write the type according to the NHSN Laboratory-Confirmed Bloodstream Infection Criteria (e.g. LCBI 1).																
Type of sample	Write down blood sample																
Antimicrobial agents and susceptibility results	<p>For each isolated organism: In front of the each antimicrobial tested write the susceptibility result either: S – Sensitive, I – Intermediate or R – Resistant Others specify: any antimicrobial other than listed can be included.</p>																