HAIs and AROs are a major threat to global public health due to their increased morbidity, mortality, healthcare cost and burden on hospitals.

In 2020, CNISP conducted active surveillance in 87 adult and/or pediatric acute care hospitals across 10 provinces and one territory:

- 27 (31%) were non-teaching hospitals in the community
- The median number of hospital beds was 228 (range: 3 to 1093)



In 2020, 1 in 223 patients admitted to a CNISP participating hospital had a MRSA BSI, VRE BSI, CPE or C. difficile infection.

Percent change from 2016 to 2020





MRSA BSI (+33%)

VRE BSI (+72%)

CPE infection (+67%)



CDI (-8.5%)

OXA-48 OTHER

Among CPE in 2020, KPC, NDM and OXA-48 made up 91.9% of carbapenemases.

To learn more, click here.

Device and surgical procedure-related infections, 2011-2020

In 2020, 1 in 171 patients undergoing a hip or knee replacement, paediatric cardiac, or CSF shunt surgery at a CNISP participating hospital had a SSI.

Percent change from 2011 to 2020



Adult/mixed ICU CLABSI (+100%)



Neonatal ICU CLABSI (-60%)

SSI following knee replacement (-58%)



SSI following hip replacement

CSF shunt SSI

Pediatric cardiac SSI

CLABSIs in ICU represented 67% of identified device and surgical procedurerelated HAIs (n=4,751).

To learn more, click **here**.

CoNS (27%) and S. aureus (16%) were the most frequently reported pathogens among identified device and surgical procedure-related HAIs (n=5,071).



MRSA BSI, Methicillin-resistant Staphylococcus aureus bloodstream infections; VRE BSI, Vancomycin-resistant Enterococci bloodstream infections; CPE, Carbapenemase-producing Enterobacterales; CDI, Clostridioides difficile infection, KPC, Klebsiella pneumoniae carbapenemase; NDM, New Delhi metallo-β-lactamase; OXA-48, Carbapenem-resistant OXA β-lactamases; SSI, Surgical site infections; CSF, Cerebrospinal fluid; CLASBI, Central line-associated bloodstream infections; ICU, Intensive care unit; CoNS, Coagulase-Negative Staphylococci

Email: cnisp-pcsin@phac-aspc.gc.ca

Public Health

Agency of Canada



Agence de la santé publique du Canada



