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Key questions defining research program:
1) What is the role of routine whole genome bacterial sequencing and data mining of the electronic health record in detecting transmission of bacteria among hospitalized patients?
2) What is the role of analysis of the peri-rectal microbiome in determining the risk of bacterial infection among hospitalized patients?
3) What is the role of analysis of the peri-rectal microbiome in determining the risk of transmission of bacteria to other hospitalized patients?

Key words describing research program:
1) Bacterial genomics
2) Genomic epidemiology
3) Outbreak detection
4) Microbiome
5) Public health surveillance

Titles for shovel-ready research projects:
1) Enhanced detection system for hospital-acquired transmission of bacteria (EDS-HAT)
2) Examining the utility of the peri-rectal microbiome to identify hospitalized patients at high risk of developing serious bacterial infection.
3) Peri-rectal microbiome and the risk of hospital transmission
4) Active Bacterial Core surveillance (ABCs) in Maryland

Data sources for shovel-ready research projects:
1) Bacterial whole genome sequencing data
2) Peri-rectal swab microbiome data
3) Electronic health record data
4) Maryland public health surveillance data for multiple bacterial pathogens