

CoSTAR-HS: Facility Cores

Facility Core 1: MCBT Analysis

Hosted at SGH, the purpose of this facility core is to perform combination antibiotic testing, with the ultimate aim of identifying appropriate antimicrobial combinations in a rapid manner to guide timely therapeutic decisions against drug-resistant bacteria such as CRE.

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Facility Core 2: Proteomics Laboratory

Hosted at SGH, the purpose of this core facility is to build human expertise and support bacterial protein characterization and quantification specific to AMR research in this collaborative proposal. The core facility will provide access to mass spectrometry (MS) and gel-based proteomics for the characterization and quantification of antibiotic resistance mechanisms for CRE and other drug-resistant bacteria.

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Facility Core 3: Whole Genome Sequencing (WGS) & Analysis

Hosted at CDC, this facility aims to meet the WGS and analysis needs of the collaborative proposal. We anticipate that the current collaborative group requires dedicated sequencing capability as sequencing needs will increase markedly with implementation of the projects under several of the research themes within CoSTAR-HS.

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Facility Core 4: Bioinformatics Analysis of Pathogen Sequencing Data

Hosted at NUHS and supported by the National Supercomputing Centre (NSCC), we aim to build a platform for data storage, management, sharing and rapid analysis of pathogen genomics sequencing data which can be easily used by microbiologists, public health investigators and researchers for the purposes of research, clinical management, infection control and disease surveillance.

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Facility Core 5: Health Technology Assessment, Health Systems and Modeling of AMR

Hosted at NUHS, the objectives of setting up this dedicated core is to build the manpower capacity and expertise on costs and outcomes research, health systems research, as well as statistical modeling specifically relevant to AMR.

Other functions include:

- Facilitating access to cross-institutional clinical and cost data
- Maintaining access to specialised software and other equipment necessary for health technology assessment (HTA), health systems research, and statistical modeling
- Maintaining an updated and standardised repository of regulatory and other information for technology assessment relevant to AMR, and
- Allowing all groups to benefit from access to national and international health economics and modelling expertise on AMR-related studies.

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