

Project Information

- ◆ Department: Center of Excellence for Applied Epidemiology
- ◆ Unit: Research and Policy

Epidemiology of Respiratory Syncytial Virus (RSV) in Young, Hospitalized Children in Jordan: A Prospective Viral Surveillance Study

OBJECTIVES

1. To determine the proportions of RSV-only detection and RSV co-detections (e.g., influenza, human metapneumovirus (hMPV), and other pathogens) in young children hospitalized with fever and/or respiratory symptoms in Amman, Jordan.
- 1) To compare the current burden and seasonality of RSV with the pre-pandemic burden and seasonality of RSV.

REGIONS OF WORK

The project will be implemented in Amman-Jordan particularly in Al-Bashir Hospital

PROJECT DESCRIPTION

“Epidemiology of Respiratory Syncytial Virus in Young, Hospitalized Children in Jordan: A Prospective Viral Surveillance Study” is 18-month project that aims to determine the burden and seasonality of RSV in Amman, Jordan. The study will target children <5 years old hospitalized in Al-Bashir Hospital who meet the inclusion criteria. EMPHNET will provide Vanderbilt University Medical Center (VUMC) with logistic and operational support to conduct the study; through facilitating obtaining the needed approvals and letter of agreement from the site of study, shipping the collected specimens to VUMC, and entering into binding written agreements with the study personnel to conduct the study in Jordan.

BENEFICIARIES

The beneficiaries of this project are children under 5 years of age.

PROJECT PHASES

The project involves two phases:

Phase I – Initiation of the communication with the project-related stakeholders and obtain official approvals and letters to conduct the study in Jordan.

Phase II – Providing logistic and operational support to conduct the RSV surveillance study and monitor the study implementation in Jordan.

Project Start and End Date	January 2023 – June 2024
Partner Organizations	Vanderbilt University Medical Center (VUMC), Ministry of Health (MoH), Al-Bashir Hospital, Jordan University (JU)
Funded by	Vanderbilt University Medical Center

Currently . . .

The global burden of RSV in children is well-documented; however, earlier global summary reports have excluded the Middle East due to a paucity of population-based viral surveillance studies in the region. The seasonality of respiratory viral diseases and their overall burden in young, hospitalized children in low- and middle-income countries also remain poorly defined, particularly in the Middle East. Thus, the true prevalence and burden of childhood viral respiratory diseases in the Middle East including Jordan are largely unknown.

What's next . . .

Implementing this project will enhance the RSV surveillance in Jordan and will fill the research gap exists in the Middle East in understanding the epidemiology and seasonality of RSV. This in return will enhance the health of young children and reduce mortality and morbidity caused by respiratory illnesses.

GHD|EMPHNET Information: Global Health Development (GHD) Eastern Mediterranean Public Health Network (EMPHNET) works at achieving its mission by responding to public health needs with deliberate efforts that allow for health promotion and disease prevention.

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