

**TITLE:**

**HEAT-ED: Emergency Department Flu Heat Map Study**

**FACULTY MENTORS:**

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**DEPARTMENT:**

Emergency Department

**PROJECT DESCRIPTION:**

The purpose of this study is to describe the temporal and geographic spread patterns of influenza in the population served by UF Health. Additionally, we will define the patient and neighborhood characteristics associated with influenza diagnosis.

Geographic neighborhood characteristics will be determined using geospatial analysis of ED visitor address (street, city, state, zip) and census tract factors including percent of population below the federal poverty level, median household income, percent of the population age 25 or older with a college degree, and driving distance from a primary care doctor's office.

The impact of demographic patient-level factors including vaccination status, co-morbidities, ethnicity, race, age, gender and payer status on influenza diagnosis will be determined.

The pattern of influenza spread in the community over time, factoring in the variables listed above, will be examined. Recurring patterns of spread will be examined to determine associated factors.