

**TITLE:** From Map to App: Applying Geographic Information Systems to EMS Data to improve pediatric prehospital care

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**RESEARCH PROJECT DESCRIPTION** (brief overview of background, hypothesis, methods, role of medical student, funding and relevant publications -- SHOULD NOT EXCEED ~ 250 WORDS)

Florida's Emergency Medical Services Tracking and Reporting Systems (EMSTARS) is a data with EMS patient records, and geographic information systems (GIS) is an analytical method which can calculate transport time and distance, as well as geospatially significant clusters of disease. GIS will be applied to EMSTARS data to produce evidence-based guidelines for prehospital pediatric asthma care, to identify geospatially significant clusters of pediatric mental health conditions requiring EMS care, and to calculate pediatric transport's use of EMS resources. A medical student would be expected to assist in data abstraction, preparation, and if interest, in data analysis and result dissemination. The principal investigator is applying for funding from an internal grant through University of Florida.