

## HelpMeBreathe: A Web-Based System for Asthma Management

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**Abstract :** We present in this paper a web-based system called "HelpMeBreathe" for managing asthma. The proposed system provides analytical tools, which allow better understanding of environmental triggers of asthma, hence better support of data-driven decision making. The developed system provides warning messages to a specific asthma patient if the weather in his/her area might cause any difficulty in breathing or could trigger an asthma attack. HelpMeBreathe collects, stores, and analyzes individuals' moving trajectories and health conditions as well as environmental data. It then processes and displays the patients' data through an analytical tool that leads to an effective decision making by physicians and other decision makers.

**Keywords :** asthma, environmental triggers, map interface, web-based systems

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