Acute Respiratory Distress Syndrome (ARDS) is a very common, unpredictable critical illness affecting 200,000 people each year. About 40% of those people die according to the American Thoracic Society.

The biggest barrier to combating ARDS is under-recognition. Currently, the causes are not well understood and many of the symptoms are shared with pneumonia. For proper treatment, clinicians need to be able to provide evidence-based care to patients.

Develop real-time systems to improve accuracy and timeliness of ARDS diagnosis

- Developing a system to identify ARDS’ indicators in EHR data to accurately identify patients meeting ARDS criteria.
- Defining the early natural history of developing ARDS to more accurately predict patients' future ARDS risk.

Algorithms that can identify patients with ARDS using available EHR data. Such algorithms could be implemented into current EHR’s to assist physicians with ARDS detection, ensuring patients receive early/optimal treatment.