



DSICCR Tuesday Seminar Series

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**Analytic and predictive modeling with electronic health record (EHR) data:
experience and perspective**

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Electronic health record (EHR) data, serving as important digital resources, offers incredible opportunities for gaming change data analyses. Analytic and predictive modeling with EHR data holds promise to unearth novel knowledge deposited in the big data, drive personalized medicine, and improve healthcare efficiency and quality. On one hand, the continuously evolving computational algorithms, including EHR-tailored sequential models and deep learning-based survival analysis, boost the predictive performance in an exciting manner. On the other hand, data quality (e.g., incompleteness and errors), along with the common knowledge gap between data scientists and clinical practice, also poses significant challenges in fully leveraging the data for secondary analyses. In this presentation, I would like to share our practical experiences in dealing with the EHR data and conducting analytic and predictive modeling research for disease risk stratification and treatment optimization. Furthermore, I will discuss promising directions for future studies.

Tuesday, March 1st, 2022. 12p – 1p. [Webcast](#)

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