

# S3: Computed Phenotypes, Implementing NLP, & Phenotyping Workflow

## Session Summary

Obtaining computed phenotypes, Implementation of Natural Language Processing (NLP) and the use of learning algorithms with applications for directing the phenotyping workflow are discussed during this session.

Presenters (4)



Victor Castro

Corporate Team  
Lead II

Partners HealthCare

---

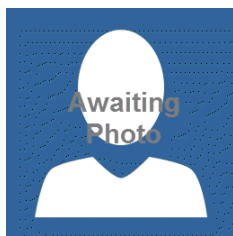


James Cimino,  
MD

Director, Informatics  
Institute

University of Alabama  
at Birmingham

---



Vivian Gainer

Corporate Manager

Partners HealthCare

---



Ken Mandl, MD,  
MPH

Director,  
Computational Health  
Informatics Program

Boston Children's  
Hospital

Professor of  
Biomedical  
Informatics

Harvard Medical  
School

## Presentations (3)

Presentation 1: High-throughput Population Phenotyping

*Presenter(s): Victor Castro and Vivian Gainer*

- High-quality computed phenotype
- Partners Biobank
- Phenotyping the biobank population
- High-throughput phenotype training



---

Presentation 2: i2b2 Development at UAB (UABi2b2)

*Presenter(s): James Cimino, MD*

- Automatic IRB approval for limited data sets
- UAB Learning System
- i2b2 incremental updates
- Infobuttons for i2b2 (i3b3 plug-in)



---

Presentation 3: Data Fusion in Phenotypes EHR, Registry, PRO

*Presenter(s): Ken Mandl, MD, MPH*

- More common phenotypes in Non-Registry
- More common phenotypes in Registry
- C3-PRO: Connecting ResearchKit to the Health System Using i2b2 and FHIR



