

Phenotyping enthusiasts, please join the Phenotype Development and Evaluation Workgroup for our activity at the [2022 OHDSI US Symposium](#)! This workgroup activity will be facilitated by myself, [@jweave17](#), [@Gowtham Rao](#), and [@AzzaShoaibi](#)/[@Azza Shoaibi](#). Please see the details below and share any comments you may have.

When:

- Sunday, Oct. 16, 1pm-5pm
- Registration link: [2022 OHDSI Workgroup Activities October 15-16 Tickets, Sat, Oct 15, 2022 at 8:00 AM | Eventbrite](#)

Goal:

- Extend the terrific work done by the community during [Phenotype Phebruary](#)
- Formalize the process by which computable phenotypes are developed, evaluated, and importantly, validated

Background:

- Established, status quo, gold-standard validation studies are of immense value but have limitations given current observational research context of large, disparate, distributed database networks of heterogenous populations around the world
- Current validation approaches generally assess one phenotype in one data source/study population at a time. These provide high internal validity, but questionable external validity
- Involves manual chart review by a clinical expert, which limits number of case adjudications possible in a validation study. We get high quality results, but are time and resource intensive
- They generally assess cases only, which provides PPV but often with NPV or sensitivity, which is an incomplete picture of phenotype definition operating characteristics
- The validation metrics are often applied to external, possibly non-applicable study populations, which is problematic given that we know measurement error correction is highly sensitive to measurement error accuracy and applicability: it's not well understood how well measurement errors transport across populations

Opportunity:

- The OHDSI community has the people, the data, and the tools to advance computable phenotype validation by formalizing the process, born in Phenotype Phebruary, to solve some of these problems
- We'd like to invite data-holders to participate in a workshop where we will introduce a 2-part OHDSI validation study approach: the combination of 1) comprehensive clinical characterization [[CohortDiagnostics](#)] in conjunction with 2) probabilistic reference standard validation [[PheValuator](#)]
- We'd like your participation in the development this novel method for rapid phenotype development, evaluation, and validation that is scalable across a data network. The intent is that internal phenotype validation result can feasibly be available for any study using data in the OHDSI network
- Participants will run a study package that will characterize and validate an established phenotype in advance of the workshop and will report results during the workshop
- We will interpret and compare results with existing validation studies of the established phenotype

What next?

- Stay tuned for information on which traditionally validated phenotype we'll evaluate and validate during the workshop
 - The pre-workshop study package and execution instructions will follow
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