Phenotype Discovery from Electronic Medical Records.

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The abstractions that we use to think about and manipulate information greatly affect the power that we derive from that information. For clinical data, we call these abstractions ‘phenotypes’, and in many cases we have been using the same phenotypes for decades. In this talk I will try to defend the assertion that our current clinical phenotypes are holding us back from making the leap to precision medicine and a learning health system, and that what we really want is to let our mountains of routinely collected clinical data tell us what those phenotypes should be. I will describe some of the computational hurdles that have made it difficult to let clinical data speak in this way, and present some early-stage results in overcoming those hurdles.

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For more information, please contact Jill Shell at jill.shell@vanderbilt.edu or 6-6760.
A schedule of the series and additional information is available at: https://medschool.vanderbilt.edu/cqs/workshop2015