



DSECT/DSEN Monthly Seminar Series

“Leveraging post-market big data using integrative statistical methods: advancing drug safety and effectiveness research ”

Presented by
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Online webinar (GoToWebinar*)

RSVP: <https://attendee.gotowebinar.com/register/2136955098811898883>

*Audio is VOIP - you must have a speaker or headset to hear the webinar

Abstract:

Knowledge gained about drug safety and effectiveness from controlled environments (e.g. clinical trials), although essential, does not provide a complete picture of the impact of drugs in the larger population. Post-market research can fill this gap by tracking unexpected adverse events associated with particular drugs and drug combinations, as well as measuring new biological sources that may better indicate drug toxicity. Such data sources are massive in size and pose significant analytical challenges. We illustrate integrative statistical methods applied on these types of massive data in post-market research to gain insight into drug toxicity and underlying biological mechanisms.

Resources:

Shaikh M. Beyene J. Testing genotypes-phenotype relationships using permutation tests on association rules. *Statistical applications in genetics and molecular biology* 14.1 (2015): 83-92.

Bonner A. Beyene J. Detecting networks of genes associated with human drug induced liver injury (DILI) concern using sparse principal components. *Systems Biomedicine*, 2(1), (2014) e29413.

The ***Drug Safety and Effectiveness Cross-Disciplinary Training (DSECT) program*** and the ***Drug Safety and Effectiveness Network (DSEN)*** are presenting a monthly online seminar series for faculty, staff, trainees, decision-makers, and other stakeholders engaged in the field of drug safety and effectiveness.

For more information, please visit www.safeandeffectiverx.com or contact:

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