



# 2016 Epidemiology Seminar Series

## Case Series Analysis of Infection-Cardiovascular Risk in Patients on Dialysis with Exposure Onset Error

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**Thursday, March 9, 2017**

**1:00pm to 2:00pm**

**Irvine Hall Conference Center, Room 207**

UCI main campus

This seminar will also be available via **Skype for Business**

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**Abstract:** Cardiovascular disease and infection are major factors for morbidity and mortality in patients on dialysis. Although the precise mechanisms by which infection may affect cardiovascular events are not fully known, infections may affect vascular endothelium and create a chronic sub-clinical inflammatory state that affects atherosclerosis. Thus, we hypothesize that the time period following infection are associated with increased cardiovascular events risk in patients on dialysis. We examine this hypothesis using the self-controlled case series (SCCS) design/method, which adjusts for measured and unmeasured baseline confounders using hospitalization data from United States Renal Data System (USRDS) which captures nearly all (> 95%) patients with end-stage renal disease in the U.S. This analytic approach is appealing because dialysis patients who do and do not acquire infections likely differ in important ways not easily measured, therefore making adjustment difficult. Furthermore, when the timing of infection onset (or exposure onset) is not known precisely, as with hospitalization data, issues with valid estimation and inferential procedures for the SCCS method must be addressed. In this talk I will discuss resolutions/developments for some of these challenges for the SCCS analysis as well as open topics.

**The seminar is free and open to the public.**

For more information, contact Maira Moctezuma: [mmoctezu@uci.edu](mailto:mmoctezu@uci.edu)  
Sponsored by the Department of Epidemiology, School of Medicine  
and the Genetic Epidemiology Research Institute