



Lecture Code : BD01-S1

Session Name : Big Data

Session Topic : -

Date & Time, Place : June 19 (Thu) / 15:00-17:00 / Room 1 (GBR 101)

Introduction to the Structure of the USRDS and Contributions to Research and Patient Care

James Wetmore

Hennepin Healthcare, United States

In this oral presentation, the structure of the United States Renal Data System (USRDS) is introduced and its contributions to research and patient care are outlined. The presentation will begin with a history of public financing for dialysis in the U.S. and how this impacted the creation of the USRDS in the 1980's. This historical perspective is enriched with archival material, including material from the U.S. Government. The acquisition of data on patients with ESKD -- patient "enrollment" -- into the USRDS is then discussed, which includes a discussion of the regulatory and payment structure which underpins the authority by which the USRDS is provided data. The operations of the USRDS are then explored in some detail, including how data is provided by U.S. government agencies to the USRDS in order to make master databases as well as standard analysis files (SAFs) available for researchers. Key inputs and outputs of the USRDS are then illustrated. Details on quality control efforts are provided, with a recent example presented as a relevant case study. Contemporary examples of research using USRDS data, both from within the USRDS itself and from independent researchers using SAFs created by the USRDS, are then provided, with an emphasis on how such efforts impact research and patient care. Lastly, the importance of the international efforts of the USRDS, including contributions from countries like the Republic of Korea, is briefly discussed.

Keywords: USRDS, epidemiology, dialysis , ESRD, public health