



HIROSHIMA UNIVERSITY



The 207th RIRBM Seminar

The 13th Phoenix Leader Education Program Seminar

Medical Treatment of Acute Radiation Syndrome

Ms. Carol J. IDDINS, MD

(Associate Director, REAC/TS at ORAU, USA)

DATE&TIME : 1st Feb. 2018, 13:30-14:30

VENUE : 3rd floor seminar room, Research Institute for Radiation Biology and Medicine(RIRBM), Kasumi campus, Hiroshima Univ.

Acute Radiation Syndrome (ARS) is an acute illness caused by significant-level radiation exposure. The ARS varies in onset from a few hours to weeks. The illness typically follows a pattern of prodromal signs/symptoms, a latent period and a period of manifest illness, followed by recovery or death. Each phase varies in length relative to the radiation dose received and organ/tissue involved. Cellular damage is generally most severe in rapidly reproducing cell types, such as stem cells and intestinal crypt cells.

To save a victim with ARS, it is important to conduct a proper medical treatment based on the anticipated dose. Once the individual is medically stable, radiological dose estimation and a treatment planning can begin. Whereas, when a serious symptom is observed, immediate action for medical treatment by professional staffs is critical.

Dr. Iddins has worked for strengthening such radiation emergencies at the Radiation Emergency Assistance Center/Training Site (REAC/TS) at ORAU, Tennessee, USA. The REAC/TS has maintained professional staff 24 hours a day/seven days a week to deploy and provide emergency medical advice and consultation for incidents involving radiation anywhere in the world. Also, REAC/TS is uniquely qualified to teach medical personnel, health physicists, first responders and emergency planners about radiation emergency medical response. REAC/TS also operates a cytogenetic biodosimetry laboratory, where chromosome aberration analysis is used for ionizing radiation dose assessment.

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IIS 5pts (for subject students (3rd to 5th students of Phoenix Leader Education Program))