

Full Report

10/28/2010

Item Number: 060475

Last Updated: 10/16/2006

Narrative:

The licensee reported that a patient prescribed to receive a prostate seed implant procedure received seeds with 27% higher activity than intended. The licensee stated that the seed implant plans are specified in air kerma units on their computer planning system. However, the ordering of seeds is specified in mCi. When the seeds for this patient were ordered, the activity was not changed to mCi. The patient was prescribed to receive 111 I-125 seeds, each with an activity of 14.58 MBq (0.394 mCi). The patient was implanted with seeds that had an activity of approximately 18.5 MBq (0.5 mCi), each. The physician, patient, and the State of Ohio were notified of the incident on 7/13/2006. The State Agency inspected the licensee's facility on 7/18/2006. Corrective actions taken by the licensee included observing compliance to newly established procedures through periodic inspections.

Event Date: 07/10/2006

Discovery Date: 07/12/2006

Report Date: 07/13/2006

Licensee/Reporting Party Information:

Agreement State Regulated:	YS	Reciprocity:	NONE
License Number:	OH-02120780000	Name:	AKRON GENERAL MEDICAL CENTER
NRC Docket Number:	NA	City:	AKRON
NRC Program Code:	NA	State:	OH Zip Code: NR
Responsible NRC Region:	3		

Site of Event:

Site Name: AKRON
State: OH

Additional Involved Party:

License Number:	NA	Name:	NA
NRC Docket Number:	NA	City:	NA
NRC Program Code:	NA	State:	NA Zip Code: NA
Responsible NRC Region:	NA		

Other Information:

NRC Reportable Event:	Y	Abnormal Occurrence:	N
Agreement State Reportable Event:	Y	Investigation:	Y
Atomic Energy Act Material:	Y	NMED Record Complete:	Y
Consultant Hired:	N	Event Closed by Region/State:	Y

Event Type:

MD2 - MEDICAL EVENT

Event Cause:

MD2

Cause: HUMAN ERROR
Old Cause: SOURCES SELECTED WITH INCORRECT ACTIVITY

Corrective Actions Information:

Action Number: Corrective Action:
MD2

1 IMPROVE RADIOACTIVE MATERIAL LABELING AND HANDLING

Patient Information:

Patient Number: 1

Patient Informed: Y Date Informed: 07/13/2006

Given:

Therapeutic Procedure: BRACHY, MANUAL IMPLANT

Organ: PROSTATE

Radiopharmaceutical: NA

Radionuclide: I-125 Activity: 55.5 mCi 2053.5 MBq Dose: NR rad NR Gy

Intended:

Therapeutic Procedure: BRACHY, MANUAL IMPLANT

Organ: PROSTATE

Radiopharmaceutical: NA

Radionuclide: I-125 Activity: 43.73 mCi 1618.01 MBq Dose: NR rad NR Gy

% Dose Exceeds Prescribed: 27

% Dose is Less Than Prescribed: NA

Effect on Patient:

Source of Radiation:

MD2

Source Number: 1

Source/Radioactive Material: SEALED SOURCE BRACHYTHERAPY Radionuclide or Voltage (kVp/MeV): I-125

Manufacturer: NR Activity: 0.0555 Ci 2.0535 GBq

Model Number: NR

Serial Number: AGGREGATE

Reporting Requirements:

MD2

Reporting Requirement: 35.3045(a)(1)(i) - Total dose delivered that differs from the prescribed dose by 20% or more; and differs from the prescribed dose by more than 0.05 Sv (5 rem) EDE, 0.5 Sv (50 rem) to an organ or tissue, or 0.5 Sv (50 rem) SDE.

References:

Reference Number:	Entry Date:	Retraction Date:	Coder Initials:	Reference Type:
EN42729	07/31/2006		DCH	EVENT NOTIFICATION REPORTED FROM AN AGREEMENT STATE
LTR061016	10/16/2006		DCH	AGREEMENT STATE LETTER