



Status of Medical Events FY 2010

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Medical Events 2010

- **47 Medical events reported - FY 2009**
- **49 Medical events reported - FY 2010**

	<u>FY09</u>	<u>FY10</u>
35.200	1	1
35.300	5	4
35.400	17	25
35.600	14	12
35.1000	10	7

Diagnostic Medical Event

35.200

1

Communication errors

- Referring physician intended I-123
- Wrote I-123 prescription and gave to patient
- Physician's office faxed request for I-131
- Hospital gave I-131
- Hospital refused patient's written prescription
- Technologist noted patient had thyroid

Medical Events 2010

35.300 Medical events **4**

– Oral Sodium Iodide I-131 **3**

- Wrong Patient
- Left capsules in vial (2 events - 5 capsules)

– MIBG I-131 **1**

Preparation volume error lead to air in
infusion line

Medical Events 2010

35.400 Medical events **25**

– Gynecological 3

– Anus 1

– Prostate 21

35.400 Medical Events

Gynecological Cs-137 3

- Applicator came out after 20 minutes – may have received 76 rem to thigh
- Applicator dislodged after vigorous coughing after 20 hours (total prescribed 45 hours)
- Failure to place sources in applicator one fell out and fell on buttocks (1,050 rad) other was missing and found in trash

Anus I-125 1

- 4 cm superior to intended location – 10 cm mark mistaken for 5 cm mark

35.400 Medical Events

Prostate (40 Patients) 21

- 4 licensees had multiple medical events - licensee not reviewing results against medical event criteria
 - DVA had 11 under one medical event report
 - Mercy St Vincent Medical Center and an associated facility had 9 reported individually
 - Marshfield Clinic had 9 in one report and 1 in another report
 - Jewish Hospital had 2 events in one report
 - Bristol Hospital had 2 events in one report

35.400 Medical Events

Prostate (Continued)

- 20 under dose to the prostate, no reason given
- 3 Over dose to prostate, no reason given
- 2 Multiple seeds eliminated from bladder or urethra
- 1 Tumor volume increase due to edema
- 11 Suboptimal dose distribution, poor placement, poor visualization, incorrect identification of prostate
- 3 Over doses to other organs (e.g., urethra)

Medical Events 2010

35.600 Medical events **12**

– HDR 9

• Mammosite 2

– Gammaknife 3

35.600 Medical Events

HDR Only (11 patients) 7

- 1 Software failure
- 2 Human error
 - hit “auto radiograph” instead of “treatment” button
 - – entered treatment site incorrectly
- 3 Catheter issues-tight bend, catheter movement
- 1 No reason given – 5 patients 30-50% under dosing

35.600 Medical Events

HDR Mammosite (3 patients) 2

- 2 source positioning error not discovered until after 10 of 10 fractions for patient 1 and 8 of 10 fractions for patient 2 –
- 1 incorrect distance measurement – used damaged source positioning simulator tool

35.600 Medical Events

Gammaknife

3

- removed right anterior pin from frame - left pin slipped 2 cm superiorly
- wrong coordinates put in 1st 5 of 10 fractions – used x coordinate value for both x and z
- head immobilization bracket not fully secured – patient pain

Medical Events 2010

35.1000 Medical events **7**

- Perfexion 2
- Microspheres 4
- Intravascular Brachytherapy 1

35.1000 Medical Events

Perfexion

2

- Wrong site – intended left side gave to right side of brain error discovered at 1.4 minutes into 30 minutes
- Failed computer disk froze treatment screen gave fatal error and terminated treatment intended

35.1000 Medical Events

35.1000 TheraSpheres

2

- Wrong site intended left lobe of liver delivered to right lobe – right lobe was scheduled to get dose on later date prescribed for later date
12,500 rad got 7,600 rad
- Waste container assay indicated 25% of pretreatment activity – iodine contrast media put in catheter, thought this impeded or caused aggregation.

35.1000 Medical Events

SirSpheres

2

- Leakage around stopper – manufacturer confirmed leakage, but thought physician put too much pressure to V-vial
- Thought procedure delivered entire dose with out complication, but about 4.4 mCi of intended 15.4 mCi left in tubing vial and other contaminated items

35.1000 Medical Events

Intravascular Brachytherapy

- Wrong treatment time selected for treatment intended 1,840 rad gave 2300 rad – AU did not sign written directive before administration