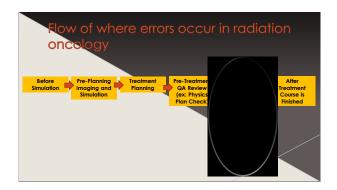
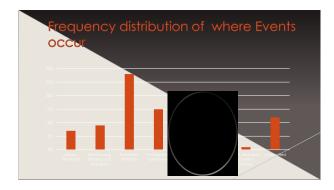
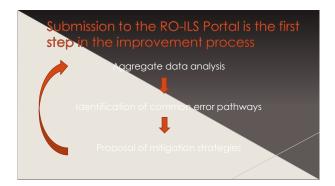
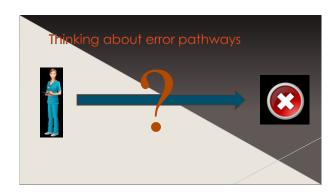
## What we have learned from RO-ILS Part 2: After the patient is on the table Sheri Weintraub MS DABR Chief Physicist and Director, Radiation Oncology Southcoast Health, Fairhaven, MA Conflict of interest statement Current member of the Radiation Oncology Healthcare Advisory Council What have we learned? Common path waysCase examplesMitigation strategiesCommon threads for ongoing analysis

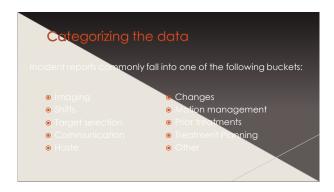






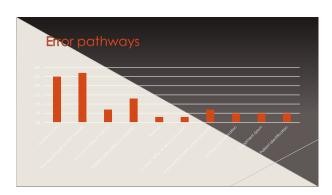


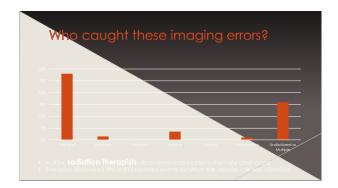


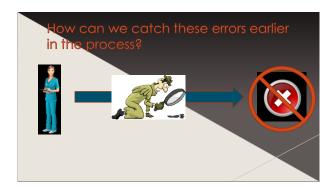


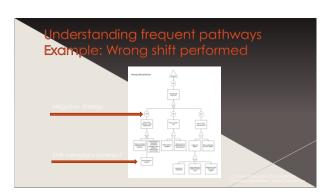
Common error po	athways
Patient misidentification Incorrect setup Problem with reference image. Lack of IGRT instruction – how to align Erroneous IGRT analysis	<ul> <li>Gating error</li> <li>Shift error – instruction or implementation</li> <li>Equipment down</li> <li>Communication</li> <li>Running</li> </ul>

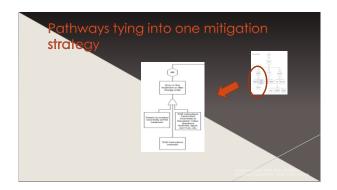




























## Case Example- shift documentation

- An SBRI lung patient underwent a verification simulation on the linear accelerator the day before he was to begin his therapy. It was defensined that a 0.3 cm anterior shift was required and that was hand-written on a standard documentation worksheet.
- Per standard procedure, the shift was then transcribed in to the record and verify system but was entered as 3.0 cm.
- The following day, the patient was set up and shifted 3.0 cm anterior. Fortunately, the error was caught on imaging and the patient was ultimately treated in the correct position.

## Mitigation Strategies

- Automated shift calculations and documentation
- Redundant checks/read-back of any manual shift documentation
- Re-imaging policy for shifts beyond a certain magnitude

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