## Using Event Reporting to Improve Patient Safety

#### **SAMs Session**

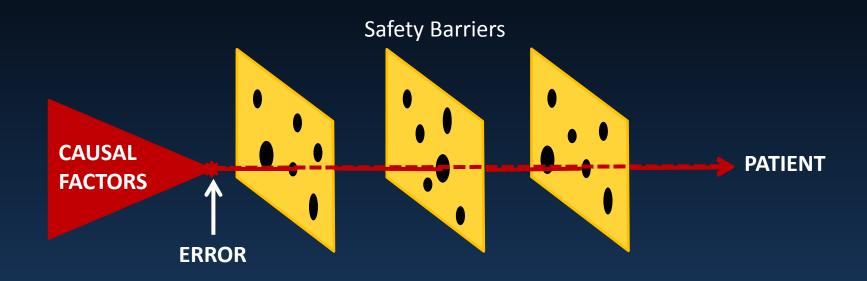
AAPM 2015 Spring Clinical Meeting, St. Louis, MO
Sunday 7:30-9:30 am
March 8, 2015

#### **Outline**

- Eric Ford, PhD, University of Washington
  - Incident learning and the AAPM/ASTRO RO-ILS system
- Susan Richardson, PhD, Swedish Cancer Center
  - Case studies
- Suzanne Evans, MD, Yale University
  - Barriers and buy-in

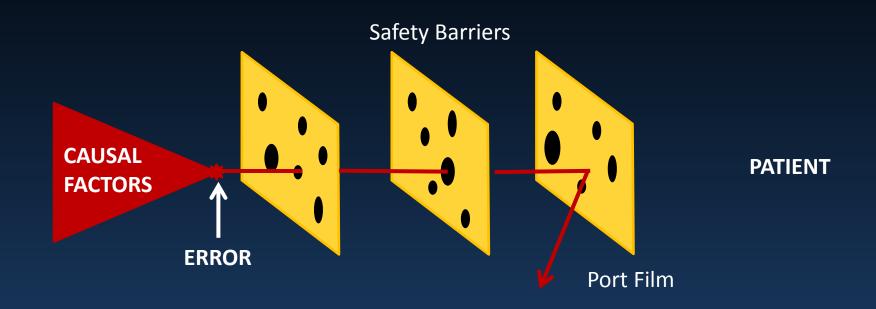
#### Disclosures

- R18 HS22244-01
- Chair ASTRO MDQA committee
- Vice-chair AAPM QASC
- Vice-chair AAPM WGPE
- Member ROHAC



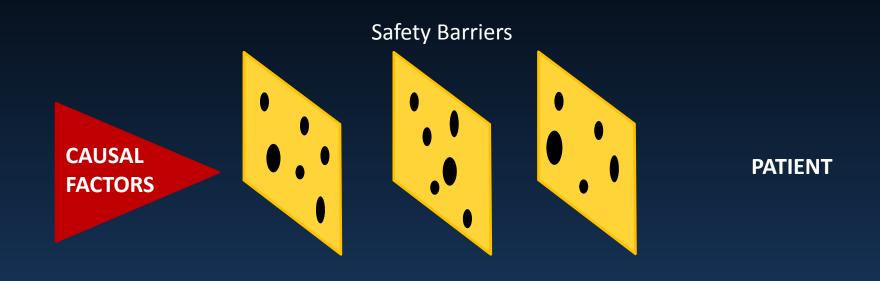
#### 1. Incident

- Impacted the patient in some way
- May or may not cause harm



#### 2. Near-miss

Event is stopped by some safety barrier



#### 3. Unsafe condition

Any circumstance that increases the probability of a patient safety event.

- 1. Incident reached patient
- 2. Near-miss
- 3. Unsafe condition

All three types of events are recorded and analyzed in incident learning.

Systematically analyzing events presents a learning opportunity.

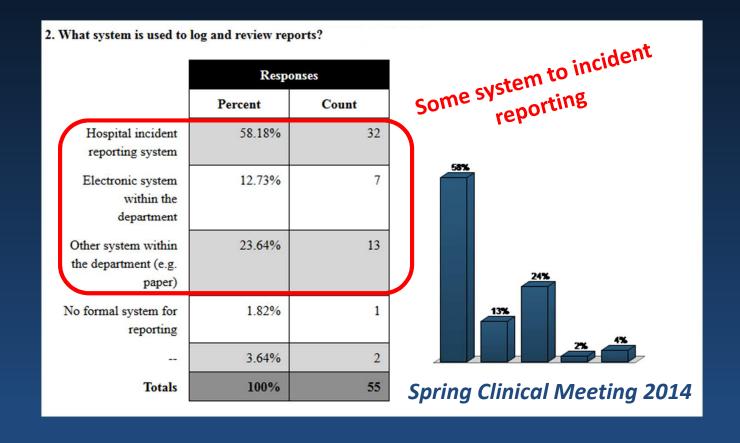
Agency for Healthcare Quality and Research (pso.ahrq.gov)

What does it look like today?

- An official recommendation of ASTRO (c.f. "Safety is No Accident" report and Safety White papers)
- Requirement for practice accreditation
- Can be part of ABR board maintenance of certification (via a PQI project)

What does it look like today?

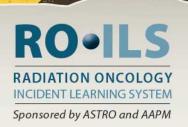
Most centers are engaged in incident learning



### What does it look like today? Low volume of reports

	Respon	ses
	Percent	Count
>40	1.67%	1
20-40	3.33%	2
4-20	11.67%	7
<4	71.67%	43
ow / No perience	11.67%	7
Totals	100%	60

#### National Voluntary System



The RO-ILS mission is to facilitate safer and higher quality care in radiation oncology by providing a mechanism for shared learning in a secure and non-punitive environment.

RO-ILS is the only medical-specialty-sponsored radiation oncology PSO. Data collected from RO-ILS will educate the radiation oncology community on how to improve safety and patient care.

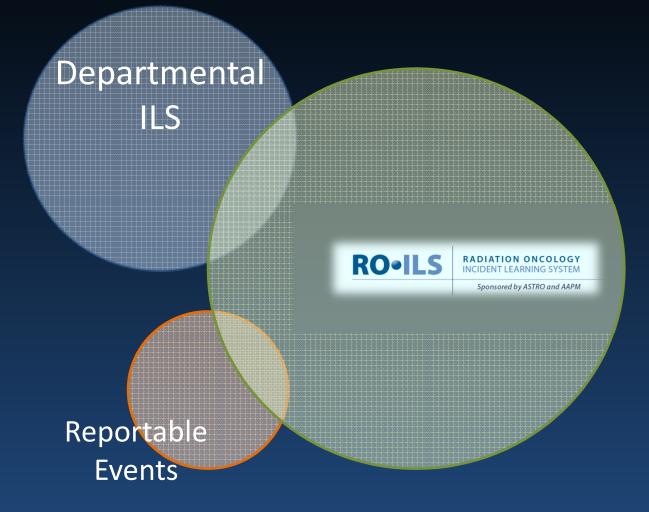
For more information, visit: www.astro.org/ROILS Email: ROILS@astro.org

#### **RO-ILS Launch**



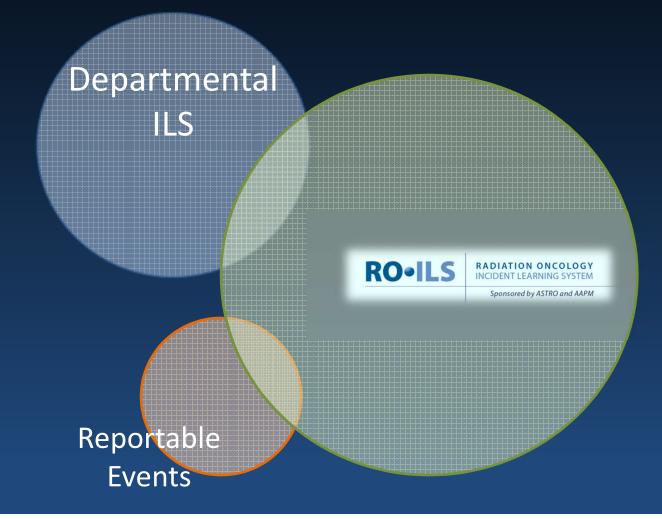


June 19, 2014

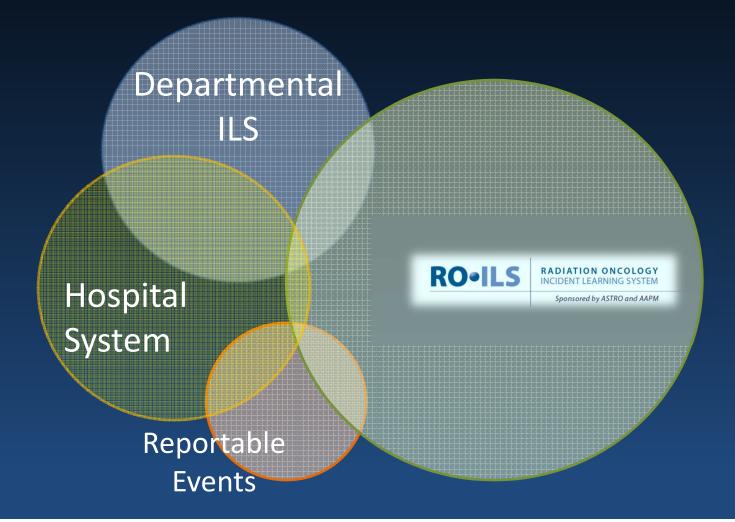


Reference: RO-ILS Users' Guide (astro.org/roils)

What does it look like today?



What does it look like today?



#### **RO-ILS System**

A "how to" overview

- Structure and contracting process
- Live demo of the portal
- Use as an institutional QI tool

First year of experience

Statistics and overview

#### **Structure of RO-ILS**

Patient Safety
Organization
(PSO)
Clarity Inc.

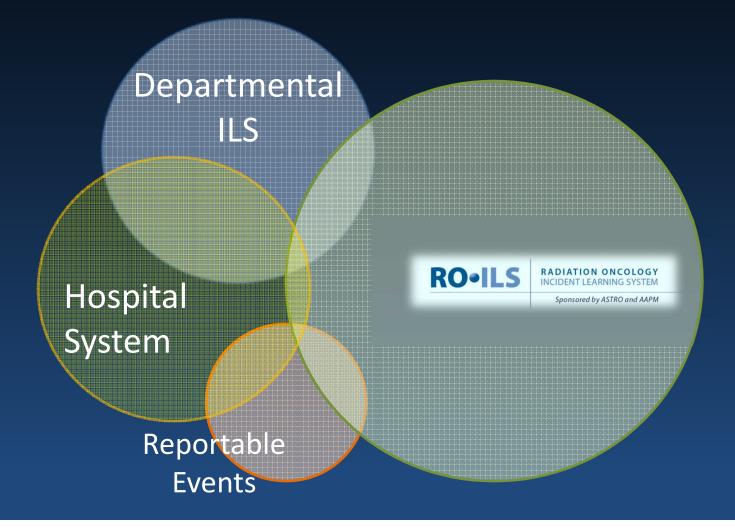


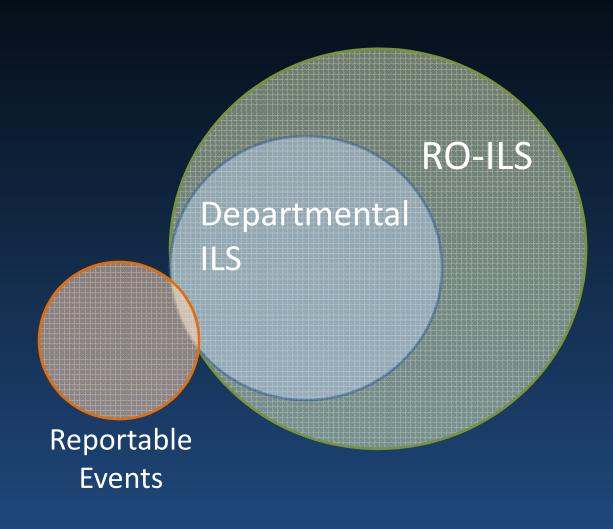


Download RO-ILS Users' Guide (astro.org/roils)



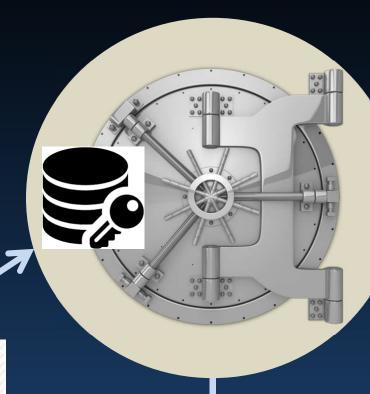
What does it look like today?





#### **Structure of RO-ILS**

Incident Reports



Patient Safety
Organization
(PSO)
Clarity Inc.



**Advisory Council** 

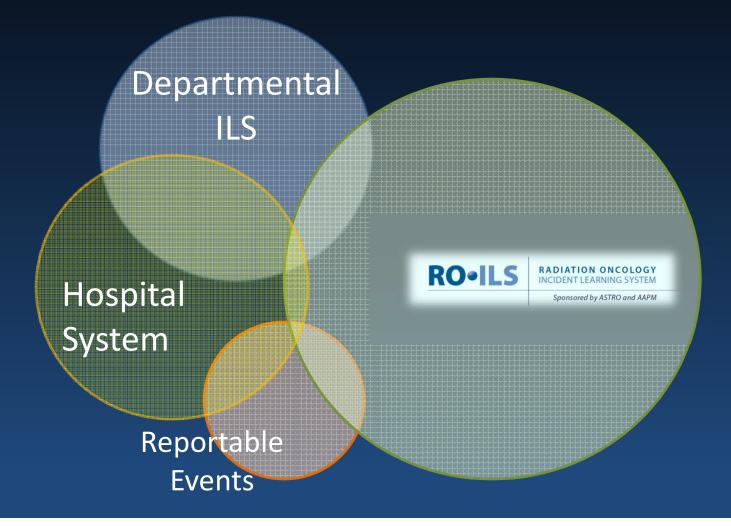


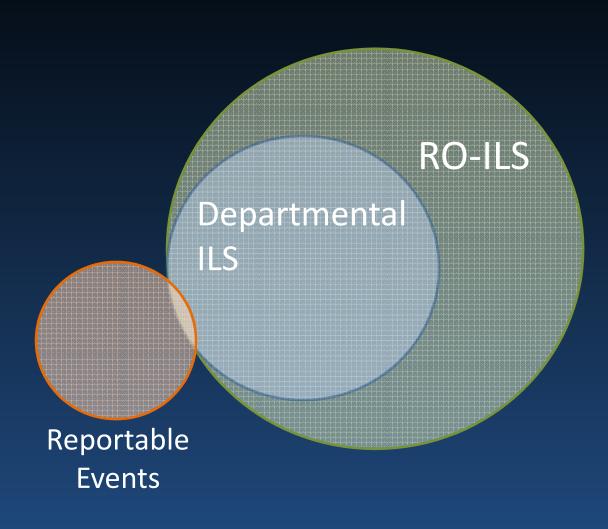
#### LIVE DEMO

Demo of web-portal reporting and analysis



What does it look like today?





#### LIVE DEMO

Further demo of use as a departmental ILS tool



#### **RO-ILS: Year 1**

Launched June 19, 2014

Current status (Feb 24, 2015)

- 46 contracts. 33 pending.
- 358 reports to PSO.
- Quarterly reports being issued to participants.







# QUARTERLY REPORT PATIENT SAFETY WORK PRODUCT

Q3 2014

JULY 1, 2014 - SEPTEMBER 30, 2014

CLARITY PSO,
a Division of Clarity Group, Inc.
8725 West Higgins Road - Suite 810 · Chicago, IL 60631
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# AGGREGATE REPORT CARD – Q3 2014

July 1, 2014 - September 30, 2014

Metric  Total number of Events  Patient Incident  Near Miss	Aggregate Current Quarter 60 24 25	Aggregate Previous Quarter 81 35	Provider Historical Quarter Average
Unsafe Conditions Not patient related	0	1 2	
Most Commonly Identified Characteristic Event	Desired Procedure Inadvertently Omitted: 20% (12/60)	Desired Procedure Inadvertently Omitted: 19% (15/81)	
	Unanswered/Not Sure: 58% (35/60)	Unanswered/Not Sure: 53% (43/81)	
Most Commonly Identified Workflow Step Where	Treatment Planning: 17% (10/60)	Treatment Planning: 16% (13/81)	,
Event Occurred	Unanswered: 70% (42/60)	Unanswered: 65% (53/81)	

# CASE REVIEWS

Case reviews offer an opportunity to learn about patient safety through sharing of actual events. Below are two events reported that were identified as opportunities for reflection and learning.

### CASE REVIEW 1

- correct patient, site and procedure did not prevent this incident. Two other cases this quarter included the Two patients with similar disease/dose/fractionation were treated out of order and the incorrect plan (i.e. other patient's plan) was treated on the first patient. The pretreatment "time-out" process used to verify incorrect extremity imaged or planned for treatment, but these incidents were identified and corrected before radiotherapy began.
- These incidents highlight the importance of performing a robust pre-procedure verification and "time-out" process before every simulation and every fraction.
- According to the ASRT Radiation Therapy Clinical Performance Standards (bttp://media.asrt.org/pdf/governance/practicestandards/ps\_rt.pdf): "The radiation therapist... performs procedural timeout," and "documents procedural timeout."
- Such incidents share commonalities with wrong site surgery cases
- The Joint Commission (TJC) includes the use of a "time-out" immediately prior to surgeries and "other invasive procedures that expose patients to harm."
- for Preventing Wrong Site, Wrong Procedure and Wrong Person Surgery is available as a resource Every radiotherapy clinic should implement a formal time-out process. TJC Universal Protocol at http://www.jointcommission.org/standards\_information/up.aspx.