



Pathfinding Session:

**Radiotherapy Treatment
Planning, Delivery, and
Record & Verify Systems**

IHE North America Webinar Series 2008

Colin Field on Behalf of ASTRO

IHE - Radiation Oncology

Cross Cancer Institute





Learning Objectives

Your Product:

- What Profiles may be relevant?
- What do the Profiles do?
- If the relevance isn't clear, Ask now.

Goals:

1. Introduction to IHE Radiation Oncology
2. Help you decide which webinars to attend

IHE-Radiation Oncology (1)

- **Secretariat: American Society for Therapeutic Radiology and Oncology (ASTRO)**
 - Robyn Watson, PhD
 - Sunita Ranjitkar
- **Co-chairs**
 - Prabhakar Tripuraneni, MD
 - Jatinder Palta, PhD
- **Planning Committee Co-chairs**
 - May Wahab, MD
 - Colin Field, MSc
 - Mika Miettinen, Varian
- **Technical Committee Co-chairs**
 - Bruce Curran, ME
 - Stuart Swerdloff, PhD, Impac

IHE Radiation Oncology (2)

- **Informal Connectathon**
 - 7-12 March, 2008
 - BrainLAB HQ, Munich, Germany
 - BrainLAB, CMS, IMPAC (Elekta), Nucletron, Philips Healthcare, Siemens, Tomotherapy, Varian, ASTRO, IHE-Spain/SEFM
- **RO Connectathon (NTPL-S, MMR-RO)**
 - 31 July - 5 August, 2008
 - After AAPM Annual Meeting, Houston, TX
- **RO Public Demonstration**
 - 21-25 September, 2008
 - During ASTRO Annual Meeting, Boston, MA

IHE Radiation Oncology (3)

- **Test Tools**

- Developed by ICT Embedded B. V.
- Financial support needs to be identified

- **Futures**

- 2009 RO Connectathon (Previous Profiles, RTWF, new)
- 2009 RO Public Demonstration
- Add a Webinar session for IHE-RO Connectathon ?

IHE Radiation Oncology

- **NTPL-S – Normal Treatment Planning – Simple**
 - define the process and mechanisms for image based (3 dimensional) radiation therapy treatment planning
- **MMR-RO – Multi-Modality Registration for RO**
 - register image sets specifically for Radiation Oncology
- **RTWF – RT Treatment Workflow**
 - integrate daily imaging with RT treatments

IHE Profiles: <http://wiki.ihe.net/index.php?title=Profiles>



IHE IT Infrastructure

- **CT – Consistent Time**
 - auto-synchronize system clocks
- **EUA – Enterprise User Authorization**
 - enables single sign-on by facilitating one name per user for participating devices and software
- **ATNA – Audit Trail & Node Authentication**
 - record HIPAA events; use security certificates



IHE Radiology

- **REM – Radiation Exposure Monitoring ?**
 - collect, process & report procedure dose
- **FUS**
 - Image fusion

Resources: Webinar Schedule

- Session 1: **Overview** of the IHE Connectathon Testing Process for New Participants - Tuesday, June 10
- Session 2: **Pathfinding**: HIT Products and IHE Profiles - Tuesday, June 17
- Session 3: **Radiology, Mammography and Nuclear Medicine** - Tuesday, June 24
- Session 4: **Eye Care** - Tuesday, June 24
- Session 5: **Laboratory** - Tuesday, July 8
- Session 6: **Patient Care Devices** - Tuesday, July 8
- Session 7: **Quality, Research and Public Health** - Thursday, July 10
- Session 8: **Cardiology** - Thursday, July 10
- Session 9: **IT Infrastructure: Profiles for Health Information Exchange** - Tuesday, July 15
- Session 10: **Patient Care Coordination: Medical Document Content Profiles** - Wednesday, July 16
- Session 11: **IT Infrastructure: Security and Privacy** - Tuesday, July 22
- Session 12: **IT Infrastructure: New Profiles for 2008** - Tuesday, August 5
- Session 13: **Connectathon Registration How-To** - Thursday, August 28

Web Resources:

- http://www.ihe.net/north_america/connectathon2009.cfm
Info on Connectathon 2009 including timeline, Webinar schedule and recorded sessions
- http://www.ihe.net/Technical_Framework/index.cfm
IHE Technical Frameworks and Supplements
- <http://www.ihe.net/profiles/index.cfm>
Overview of IHE profiles and brief descriptions
- <http://wiki.ihe.net/index.php?title=Profiles>
More detailed descriptions of many profiles
- ihe@himss.org, ihe@rsna.org
Inquire about Connectathon, committee participation, IHE membership, etc.

Discussion