PACS ADMIN Seminar & Workshop

Nov 9-13, 2014
Dubai, UAE

Organized by:
IBIS Edu / ICT for Health

www.ibisedu.com
INTRODUCTION:

IBIS Edu (formerly ICT for Health) is the pioneer and the most trusted name in PACS training in the Middle East. With 8 successful PACS seminar on our tribute, we have the right resources and the experience to deliver all what today’s PACS Managers and Admins needs. We always bring the industry leaders and top names in PACS industry including Herman Oosterwijk and Todd Kantchev.

Dr. Kantchev is perhaps the most senior living PACS trainer on earth. He delivered a very successful 3-day PACS Training class in 2013 in Dubai, however due to the nature of the subject, depth of his knowledge and thirst of the participants, the seminar was extended to 5 days including hands on in 2014 with practical experience and trouble shooting.

With over 8 years of PACS training experience in the Middle East, we can proudly say that we had the honor to train majority of the PACS admins in the Middle East. Through this big pool of trainees we understand the changing requirements and technology advancement in PACS and we keep modifying our training courses year to year and bring the best technology and knowledge base for healthcare professionals. If you are not yet registered in this class, you surely are missing a great deal of knowledge coming your way.

Please see the trainers detailed profile below and the course outline to understand the depth of the course and delivery. We look forward to welcoming you to the course at our Dubai class.

WHY ATTEND?

✓ Teaching of the generic medical imaging and data flow management process in relation to modern technology, regardless of specific branding
✓ Provides clear understanding of the PACS components, their functionality and the standard interfaces used for integration
✓ Presents a combination of knowledge in PACS engineering, implementation project planning and service management from real life
✓ Up to date study of modern PACS technology and healthcare data management
✓ Well balanced subject matter for good understanding of engineering as well as management
✓ Comprehensive intensive learning yet ensuring gradual learning curve by introducing key terms explaining the jargon first
✓ High quality study materials with review questions and answers to use for study and reference after the course
✓ Excellent balance between academic and practical knowledge
TRAINING INSTRUCTOR:

Karen Elizabeth Reid

British National Karen carries over 30 years of experience in medical imaging and radiology as radiographer and consultant. Karen carries vast experience in PACS and radiography in the Middle East. Some of the prominent positions she has worked for are:

- Application consultant at Philips Healthcare
- PACS Admin at Johns Hopkins Medicine International - Tawam Hospital
- MRI supervisor at King Fahad National Guard Hospital
- Senior radiographer at MRI/CT at Kingdom hospital
- Consultant radiographer at Kenfield.

Karen is CPAS, PARCA certified and currently works freelance radiology PACS/RIS consultant and PACS Trainer with IBIS Technologies.

COURSE COORDINATOR:

Todd Kantcheve, Ph. D. (London, UK)

INTRODUCTION: Without any doubt, Todd is perhaps the most experienced living PACS/DICOM resource on earth. With over 20 years of experience in PACS implementation, connectivity, management and training in Philips, Siemens, Merge, & Salvesta Todd is an excellent resource to enrich your PACS related knowledge.

SUMMARY: Resourceful cross domain IT experience with a good mixture of business, academic and technical skills; Strong exposure to medical devices and imaging informatics in a variety of roles at different levels; Ability to maintain processes, standards and good practices while managing, leading and inspiring;

SPECIALTIES: Healthcare Informatics; Interoperability Standards; DICOM; HL7; IHE; PACS; Medical Imaging; Medical Devices; Parallel Computing; Senior Level Management; Project Management; Consulting; DICOM Professional Training and Coaching.

KEY AREAS OF STRENGTH

- Management skills in medical devices in a variety of roles at different levels;
- PACS deployment Project Management experience;
- Advisory, consulting, training and coaching skills in healthcare interoperability standards and medical imaging technology;
- Strong DICOM and IHE PACS integration expertise;

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BACKGROUND: Todd Kantchev has been working in DICOM/IHE interoperability for more than 15 years. In 1996 he developed one of the first toolkits, implementing the client and the server sides of Image Storage with lossless and lossy compression, Query Retrieve and Modality Worklist as well as Print SCU. He participated in DICOM WG11 and contributed to the community on DICOM news group during the pioneering stages of the first commercial PACS architectures and implementations. His results were reported on Radiology’98 in Birmingham [1]. Later he acquired experience in validating DICOM implementations and training for Merge Healthcare, Siemens Healthcare, Philips and other companies worldwide as well as in project managing PACS deployment.

While working in the area of molecular imaging, Todd acquired knowledge and understanding in the areas of Nuclear Medicine (PET and SPECT imaging), RT Planning as well as Image Registration. He was one of the driving forces for improving interoperability in these areas. He participated in WG3 for Enhanced PET and was the draft author of the Image Fusion Profile (FUS) in IHE.

In 2007 Todd became an independent consultant providing training and consultancy for medical companies, healthcare institutions and individuals.

WORKED AT:

Project Manager: Philips Healthcare
Interoperability Project Manager: Siemens Molecular Imaging, Oxford
System Integration Consultant: Merge Healthcare

EDUCATION:

MBCS CITP
PRINCE2 Practitioner
DIC Medical Physics and Engineering, Imperial College, London
PhD Computer Science, Technical University, Sofia
MSc Electrical Engineering, Technical University, Sofia

WHAT INDUSTRY LEADERS SAY ABOUT HIM:

Roy Foster
Project Management Consultant - Philips Healthcare
Todd worked for me as a Project Manager deploying PACS into London Hospitals as part of the NPfIT Programme. He was a truly excellent PM being clear and concise, empathetic to the customer but yet strong, diligent and hard working and was able to complete all his projects to the required time, cost & quality criteria. I would recommend Todd to anyone.

Roy Foster
September 23, 2010, Roy managed Todd at Philips Healthcare

Sacha Helbig
Product Manager Service at Siemens Healthcare

Todd worked for me from 2002 to 2003 as System Integration Consultant in the MergeLink consulting organization of Merge Healthcare.

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Besides Interoperability Consulting and Classes on DICOM Test Tools, Todd’s main task was providing DICOM Compliance Testing Service and Interoperability Consulting. Our Client’s sought third party assessments on the high quality of their DICOM implementations assuring their clinical customers of best practice in plug and play DICOM connectivity. Todd’s ability to comfort our customers, collecting good feedback on his testing services, receiving recurring booking accompanied with savvy testing reports and implementation improvement recommendations supported our business. We wish much luck for Todd in his future life looking forward on meeting him again.

Sacha Helbig
November 18, 2010, Sacha managed Todd at Merge Healthcare

Publications:


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DAY-1

INTRODUCTION TO RADIOGRAPHY AND PACS

Learning objectives: Establish common clinical and technical (Healthcare IT) foundation in concepts and vocabulary. Introduce to the basics of healthcare IT-medical image management, interoperability standards and clinical basics.

Who should attend: Clinical Professionals with little or no IT background, as well as IT Professionals with little medical and healthcare IT experience, Healthcare Managers, System Administrators, Technologists, Radiologists, Healthcare IT Entrepreneurs.

Course Outlines:

✓ Computer Basics and Terminology
✓ Digital Image Management Basics
✓ Patient Healthcare Workflow
✓ PACS/HIS/RIS
✓ Medical Imaging Workflow
✓ DICOM and HL7 Basics, EHR
✓ Clinical Basics and Terminology
✓ Human Anatomy, Positioning, Orientation
✓ Principles of Imaging Modalities
✓ Image Quality and QA/QC
PACS MANAGEMENT

Learning objectives: Introduce to the basics of PACS procurement, implementation project management, operations, system management.

Who should attend: Healthcare Managers, Project Managers, Clinical Data Managers, Business Analysts, System Administrators, Technologists, Radiologists, Entrepreneurs as well as other Clinical and Medical IT Professionals.

Course Outlines:

- Exercises and Drills
- Review Questions from Day 1
- Understanding DICOM and HL7 Data
- PACS/RIS Management
- Business Case for Procurement
- Project Team and Methodology
- Main Stages of Implementing Filmless Radiology
- Site Preparation and Deployment
- Configuration Management
- Quality and Safety Regulations
- Maintenance and Administration
- Supervising Modality Integration
- Data Migration and VNA Challenges

For more details and registration, please visit: www.ibisedu.com
PACS Administration- Interfacing and Data Protocols

Learning objectives: In depth knowledge of the interface and interoperability standards in medical image management: DICOM and HL7.

Who should attend: Interface Analysts, PACS Administrators and Managers, Technologists with basic IT background, Engineers, Managers of HIT Systems and other leading professionals.

Course Outlines:

- Computer Networking Basics
- OSI and TCP/IP
- Higher Layer Protocols: FTP, HTTP/S
- Understanding IP Addressing and Masks
- Understanding Domains: DNS, DHCP
- DMZ, Firewalls, VPN
- Advanced DICOM
- DICOM Data Model
- Information Object Definitions (IODs)
- Encoding for Network and Media Interchange
- Pixel Element Encoding
- Image Geometry
- Display Pipeline
- Non-Image Objects.
- DICOM- Data Transport Services
- Association Control
- Image Storage
- Query/Retrieve
- Modality Work-list (MWL)
- Modality Performed Procedure Step (MPPS)
- Print
- DICOM Configuration
- DICOM Conformance
- Advanced HL7 V.2 Messaging
- HL7 V2 Message Structure
- MLLP; Acknowledgement Message
- Patient Visit Management
- Order Management
- Results/Reports Management
- HL7 Conformance
PACS ADMINISTRATION- COMPONENTS, PROCESSES AND WORKFLOW

Learning objectives:   PACS Fundamentals: Components and Diagnostic Imaging Workflow Management, Image Quality, PACS Maintenance and Administration and the IHE recommendations

Who should attend:   PACS Administrators and Managers, PACS Workflow Managers, Technologists with basic IT background, Engineers, Managers of HIT Systems and other leading professionals.

Course Outlines:

- Exercises and Drills:
- Review Questions from Day 3
- Understanding and Defining DICOM Requirements
- PACS Fundamentals
- Imaging Service data Model
- Image Management and Archiving Servers
- Imaging Modalities
- Display Workstations
- Enterprise PACS Architecture
- PACS performance
- Diagnostic Imaging Workflow
- PACS Security
- Implementation and Administration
- Image Quality
- IHE Guidelines

For more details and registration, please visit: www.ibisedu.com
D A Y - 5

SYSTEM ADMINISTRATION WORKSHOP (TROUBLESHOOTING & HANDS ON)

Learning objectives: Examine typical issues in PACS interfacing, workflow and data interoperability. Test, analyse and edit images and image management data, monitor and troubleshoot connectivity.

Who should attend: PACS Administrators and Managers

Course Outlines:

- Issues in PACS Interoperability
- Connectivity Layer
- Presentation Layer
- Data Mapping and Interpretation
- Exercises
- Validating Images
- Read/Edit Images
- Send/Receive Images
- Monitoring and Analysis
- Troubleshooting Exercises

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Professional Competency & Certification Guidelines:

The scope of the course material is designed to help expand the career opportunities of the attendees in the area of PACS administration/management and imaging informatics in general. We provide all attendees with certificates for attendance and achievement, based on their active participation. However, the structure is designed also to allow for attending selectively, focusing on particular topics, required by the various third party certification bodies in the field, like ABII, PARCA etc.

For example, Day1 can be taken independently from the following 4 days. It is a basic level for those without background in either Healthcare IT or Radiology, providing a very good coverage of the requirements for CPAS. The following 2nd day is for those who have orientation in the field of organisation and management- aiming for CIIP. They need to have had experience similar to the one provided by Day 1. The first half of the day will be reviewing the previous day. Anyone stepping in straight into the second day can still use the morning to refresh their Healthcare IT and basic radiology through the review questions and drills.

The following 3d and 4th days are advanced level for PACS Administrators. The 3d day can be taken independently from the 4th. It focuses on standards (DICOM, HL7) covering for CPIA, CIIP. The 4th is for those focusing on PACS workflow- CPSA, CIIP. Both can be taken as a required step for the 5th day, which is hands-on and troubleshooting, aiming at CPSM. Prerequisite for 3d and 4th days is to have a basic knowledge in Healthcare IT and Radiology (or having Day 1-2 done or similar experience).

The 5th day is hands-on/ troubleshooting for those already familiar with the DICOM and HL7 standard and the networking basics. Prerequisite is day 3 and day 4 done or similar experience. It is aiming at covering for CPSM.

Disclaimer: Third party certification bodies differ in their requirements and the structures of their tests are dissimilar. Although our teaching and training programme is of the highest quality, attendance on any part or the whole of this course does not automatically guarantee achieving certification with any third party institution which operates independently. Customers attending this course are expected to further complement their knowledge and experience by reading text books, taking computer based courses, attending conferences or taking other forms of continuous professional development before they go for third party certification.

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