A PAPERLESS RADIOLOGY DEPARTMENT!?

Max Clarke
NNUH status

- Sunquest / Anglia Healthcare webice requesting and results system
- McKesson TCRAD RIS
- GE PACS/Fuji CR
Basic requirements

• Bi-directional ‘e’ requesting and RIS messages
• Customisable RIS worklist filters for;
  WORKBENCH for Radiographers
  VETTING
  APPOINTMENTS
  REPORTING
• A PC in every imaging room
• Compliant staff
• Good workflows
A request is made on webice

- This may be from any originator;

Hospital in-patient
OP request
GP surgery
PCT/ triage/prison……
Request is received in RIS

ORDER SUMMARY
WORKLIST

Norfolk and Norwich University Hospitals NHS Foundation Trust
Request is vetted
Vetting

- May be done by Radiographers for walk-in patients
- May be done by sonographers
- Radiologists will vet CT, MRI and some Ultrasound examinations
- They all use vetting worklists
Request is processed in RIS;

- Using the Reception module – as a walk-in referral
- Or it may be booked on as an appointment (the appt date is sent back to webicce)
- Comments and protocols can be added (also bi-di)
The radiographer accesses ‘Examination details workbench’ in RIS to view the next patient waiting to be xrayed
<table>
<thead>
<tr>
<th>Attendance Date &amp; Time</th>
<th>Attendance Time</th>
<th>Status</th>
<th>Time in Day</th>
<th>Attendant Number</th>
<th>Examination</th>
<th>Sex</th>
<th>Operator(s)</th>
<th>Patient Name</th>
<th>Reg</th>
<th>DOB</th>
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</thead>
<tbody>
<tr>
<td>27.02.2009</td>
<td>14:39</td>
<td>Booked in</td>
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<td>099000038</td>
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<td>09900010</td>
<td>PELVIS</td>
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<td>Test, Anjali REG 0714022 FEMALE 31.07.1975</td>
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<td>14:35</td>
<td>(05.02.2009)</td>
<td>Booked in</td>
<td>&gt;24hrs</td>
<td>09900000</td>
<td>LUMBAR SPINE</td>
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<td>Booked in</td>
<td>&gt;24hrs</td>
<td>09900001</td>
<td>CT HEAD</td>
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</tbody>
</table>
Next patient in list is chosen

- Select the patient from the list
- Open the event and view the clinical details to ascertain imaging requirements
### Examination Details Workbench

#### Filter Applied (CHANGED)
- **Mobility:** ALL
- **Status:** Booked In
- **Patient:** ALL
- **Date Order:** Most recent 1st
- **Site:** ALL
- **Attendance Date/Time From:** 01.02.2009 at 08:00
- **To:** 01.03.2009 at 15:59
- **Appointment Date & Time:**
  - 27.02.2009
- **Examination:** ALL
- **Age/DOB:**
  - Patient Name: Ochil, Jonathan
  - REG: 0325412
  - MALE: 03.01.1980

#### Attendance/Appointment Number

<table>
<thead>
<tr>
<th>Attendance Time</th>
<th>Appointment Date &amp; Time</th>
<th>Status</th>
<th>Time in Day</th>
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</tbody>
</table>

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Norfolk and Norwich University Hospitals
NHS Foundation Trust
Created from Order 0123456[319]CE[ABD by TH on 05.02.2009 at 13:25

[inpatient] Outpatient
[Collection Option] Urgent
[Collection Date] 05/02/2009
[Collection Time] 01:20
[Bleep Number] 5502
[Requesting User] radmb - BULLOCK, Maxine

{a test request thursdi
testing testing.....
}}
next stage

• Check previous images on webpacs
Then….

- Invite patient to enter the room
- Identify patient using demographics on RIS screen
If you need extra ID
Patient is xrayed

• Images are QA'd, sent to PACS and Verified using PACS and FUJI workstations
Radiographer
Returns to the screen
To enter the post examination details;
And relax...........

Before starting all over again
Images are now available for reporting

- Reporting can be accessed from any diagnostic workstation networked to the archive.
- There are workstations both on and off site.
- Images taken at remote sites can still be reported the same day as imaging.
Next patient

REPORT TRANSCRIPTION WORKLIST

Norfolk and Norwich University Hospitals NHS Foundation Trust
Reporting

- Is carried out using Talking Point
- Is most efficiently done from a compiled worklist by modality
- Filtering can be done to ‘include’ all exams with an ‘e’ request
Obstacles:

- Radiographers
- Radiologists
- Workload
- Hardware
Easiest to remedy

• Hardware
More challenging;

• Staff groups!