Secure Logging & Audit

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Peeking happens

**Stolen Hopkins patient info used in $600K credit card fraud**

October 4, 2010 — 1:15pm ET | By Sandra Yin

Bosses have said they instructed staff and take steps to prevent future breaches of celebrity privacy.

**Ex-UCLA Healthcare Employee Pleads Guilty to Four Counts of Illegally Peeking at Patient Records**

Riverside County Superior Court in Moreno Valley on Thursday after two celebrity patients alleged they had reviewed their medical records without authorization.

**UCLA Health System has agreed to pay $865,000 in a settlement with U.S. attorneys to settle a civil lawsuit alleging breaches of confidentiality.**

The complaints cover 2005 to 2009, when patients were fired for peeping at the medical records of high-profile patients, including Michael Jackson and First Lady Maria Shriver.

**NJ hospital suspends 27 over Clooney record snoop**

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**Hospital staff sacked for breaches of data**

The hospital staff sacked for breaches of data.
## Systems Studied

### Summary of EHRs studied

<table>
<thead>
<tr>
<th></th>
<th>Version / Release Date</th>
<th>License</th>
<th>Clientele</th>
<th>Added Modules</th>
</tr>
</thead>
<tbody>
<tr>
<td>OpenEMR</td>
<td>3.2.0 / February 16, 2010</td>
<td>General Public License</td>
<td>&gt;30 million clients</td>
<td>None</td>
</tr>
<tr>
<td>PropMed</td>
<td></td>
<td>Prop</td>
<td>International client base</td>
<td>None</td>
</tr>
<tr>
<td>Tolven eCHR</td>
<td>RC1 / May 28, 2010</td>
<td>Lesser General Public License</td>
<td>US, Europe, Asia-Pacific</td>
<td>Performance Plugin</td>
</tr>
</tbody>
</table>
CCHIT Criteria: AM 03.08.01 – The system shall provide the ability to associate orders and medications with one or more codified problems/diagnoses.

Example Test Procedure:
1. Authenticate as Dr. Robert Alexander.
2. Remove the association between Theodore S. Smith’s Hypertension diagnosis and Zantac.
3. Add the association back between Theodore S. Smith’s Hypertension diagnosis and Zantac.
4. Logout as Dr. Robert Alexander.
5. Authenticate as Denny Hudzinger.
6. Open the audit records for today’s date. If necessary, focus on patient Theodore S. Smith.

Example Expected Results:
• The audit records should show adding and removing the association of Theodore S. Smith’s Hypertension diagnosis and Zantac, both linked to Dr. Robert Alexander, and with today’s date.
• The audit records should be clearly readable and easily accessible
## Results

<table>
<thead>
<tr>
<th>System</th>
<th>Pass</th>
<th>Fail</th>
<th>PNM</th>
<th>N/A</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>OpenEMR</td>
<td>3</td>
<td>37</td>
<td>0</td>
<td>18</td>
<td>58</td>
</tr>
<tr>
<td>PropMed</td>
<td>6</td>
<td>42</td>
<td>10</td>
<td>0</td>
<td>58</td>
</tr>
<tr>
<td>Tolven eCHR</td>
<td>0</td>
<td>27</td>
<td>2</td>
<td>29</td>
<td>58</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>9</td>
<td>106</td>
<td>12</td>
<td>47</td>
<td>174</td>
</tr>
<tr>
<td><strong>Percent</strong></td>
<td>5%</td>
<td>61%</td>
<td>7%</td>
<td>27%</td>
<td></td>
</tr>
</tbody>
</table>
Example “Modifying without a Trace”

- Maintaining the diagnoses associated with a patient
- Recording the prescribing of medications
- Displaying and maintaining an allergy list
- Managing diagnostic tests and test results
- Assigning privileges or restrictions to users and groups
# Activity Feed

- You successfully authenticated today at 7:34AM.
- You logged out of iTrust today at 7:34AM.
- You successfully authenticated today at 7:34AM.
- You successfully authenticated today at 7:33AM.
- You successfully authenticated today at 7:30AM.
- You successfully authenticated today at 7:16AM.

**Kelly Doctor** viewed your office visit on 05/12/2012 at 9:32PM.

**Kelly Doctor** added a prescription to your office visit on 05/12/2012 at 9:32PM.

**Kelly Doctor** edited your office visit on 05/12/2012 at 9:32PM.

**Kelly Doctor** viewed your office visit on 05/12/2012 at 9:32PM.

**Kelly Doctor** viewed your office visit on 05/12/2012 at 9:31PM.

**Kelly Doctor** viewed your office visit on 05/12/2012 at 9:31PM.
“Data Owner that Cares” (DOTC)

- iTrust feedback is for non-designated health care provider
- Access anomaly detection algorithms will have false positives ... send them to the DOTC
- Provides some deterrent to snooping