

Evidence Solutions, Inc. &

Juris Educational Resource Knowledge

Present:

Electronic Medical Records Forensics EMR EHR Electronic Health Record Forensics

June 2016

Presented by:

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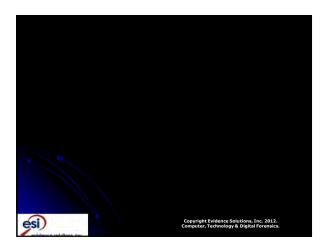
Electronically Stored Information in Litigation Frequently we are presented with data that appears perfectly normal and supports a particular side to a case. Unfortunately software, displays data in a sorted and organized form. Manipulated Data will not be evident when looking at standard reports. Copyright Evidence Solutions, Inc. 2012. Computer, Technology & Digital Forenaics.

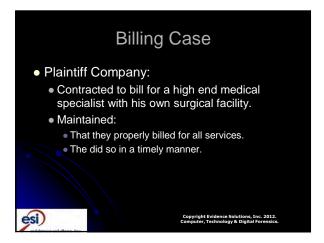
How am I going to get there? A Civil Case: Medical Billing Discussion of Electronic Medical Records A Civil Case: Falsified Email With a few other things thrown in...



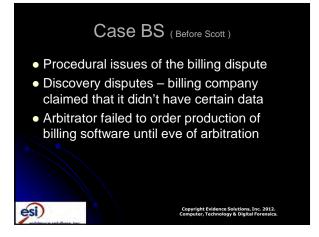
Reasons to examine electronic data Almost all documents are now 'word processing' documents. Nearly all business activities are now computerized E-mail communications have surpassed telephone and postal (snail mail) communication. Text Messages now overshadow E-mail

What can data Forensics Tell Us? Almost Everything: from the character of the user to their interests, activities, financial health, acquaintances and more. Collected from their life online: applications, email systems, web browsers and free space. The details from their life, outlook, intelligence and interactions are as individual as any fingerprint. All Public & Private business transactions, communications with accomplices, fraud indicators and much more are frequently available.





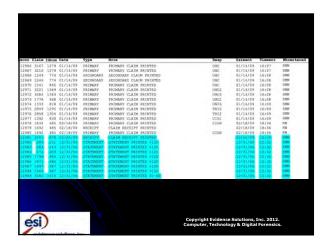
Billing Case Defendant Doctor/Surgical Facility Maintained that the Plaintiff did not bill timely Determined that the Plaintiff chose to concentrate on the large ticket bills Capyright Evidence Solutions, Inc. 2012. Computer, Technology & Digital Forensics.

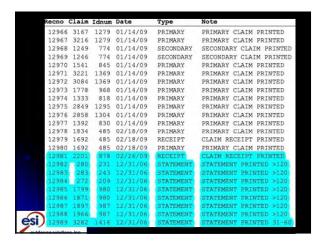


Scott's Special Master Tasks • Evidence Solutions was tasked with analyzing the software and determining what standard reports were available from the system. Copyright Evidence Solutions, Inc. 2012. Computer, Technology & Digital Forensics.

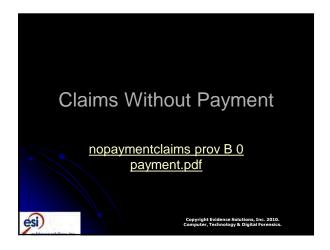


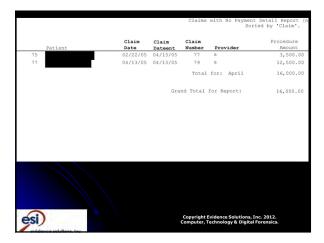




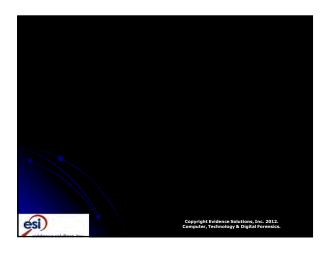


Note	Resp	Dateent	Timeent	Who
PRIMARY CLAIM PRINTED	UHC	01/14/09	16:07	SMW
PRIMARY CLAIM PRINTED	UHC	01/14/09	16:07	SMW
SECONDARY CLAIM PRINTED	UHC	01/14/09	16:08	SMW
SECONDARY CLAIM PRINTED	UHC	01/14/09	16:08	SMW
PRIMARY CLAIM PRINTED	UHC	01/14/09	16:08	SMW
PRIMARY CLAIM PRINTED	UHC2	01/14/09	16:08	SMW
PRIMARY CLAIM PRINTED	UHC2	01/14/09	16:08	SMW
PRIMARY CLAIM PRINTED	UHC2	01/14/09	16:08	SMW
PRIMARY CLAIM PRINTED	UNI6	01/14/09	16:09	SMW
PRIMARY CLAIM PRINTED	TRI2	01/14/09	16:09	SMW
PRIMARY CLAIM PRINTED	TRI2	01/14/09	16:09	SMW
PRIMARY CLAIM PRINTED	CIG1	01/14/09	16:09	SMW
PRIMARY CLAIM PRINTED	CIGN	02/18/09	18:36	KW
CLAIM RECEIPT PRINTED		02/18/09	18:36	KW
PRIMARY CLAIM PRINTED	CIGN	02/18/09	18:36	KW
CLAIM RECEIPT PRINTED		02/26/09	12:20	SMW
STATEMENT PRINTED >120		12/31/06	12:32	SMW
STATEMENT PRINTED >120		12/31/06	12:32	SMW
STATEMENT PRINTED >120		12/31/06	12:32	SMW
STATEMENT PRINTED >120		12/31/06	12:32	SMW
STATEMENT PRINTED >120		12/31/06	12:32	SMW
STATEMENT PRINTED >120		12/31/06	12:32	SMW
STATEMENT PRINTED >120		12/31/06	12:32	SMW
STATEMENT PRINTED 31-60		12/31/06	12:32	SMW





	Adjustment or Writeoff		Write off	Activity
8	Amount	8	Date	Dateent
0.0	-3,500.00	100.0	09/27/05	09/27/05
0.0	-12,500.00	100.0	12/31/06	05/14/09
	-16,000.00			
0.0	-16,000.00	100.0		
	0.0	% Amount 0.0 -3,500.00 0.0 -12,500.00 -16,000.00	% Amount % 0.0 -3,500.00 100.0 0.0 -12,500.00 100.0 -16,000.00	<pre>% Amount % Date 0.0 -3,500.00 100.0 09/27/05 0.0 -12,500.00 100.0 12/31/06 -16,000.00</pre>





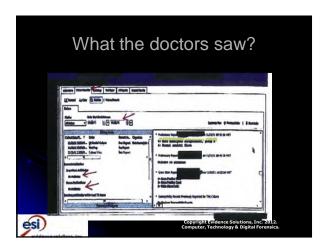
F	ederal Law – medical records
:	45 CFR §164.524: (a) Standard: Access to protected health information— (1) Right of access, Except as otherwise provided in paragraph (a)(2) or (a)(3) of this section, an individual has a rigid symptometric representation and produced to review of others in copy of protected health information about maintained in the designated records set, except form (a) of the protected health information is maintained in the designated record set, except form (i) Psychotherapy notes:
	action or proceeding; and 45 CFR; \$16.4501 Definitions. Designated record set means: (1) A group of records maintained by or for a covered entity that is: (0) The medical records and billing records about individuals maintained by or for a covered health
:	care provider; (ii) The enrollment, payment, claims adjudication, and case or medical management record systems maintained by or for a health plan, or (iii) Used, in whole or in part, by or for the covered entity to make decisions about individuals. (2) For purposes of this paragraph, the term record means any item, collection, or grouping of information that includes protected health information and is maintained, collected, used, or disseminated by or for a covered entity.
esi	Copyright Evidence Solutions, Inc. 2012. Computer, Technology & Digital Forensics.

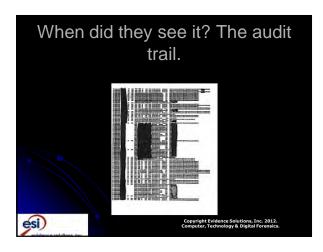
A.R.S. 12-2294 • Helpful when trying to get records and medical provider is blocking. • Records can be obtained by health care decision maker, personal representative of estate, spouse, trustee, adult child, parent, sibling, or guardian of decedent.

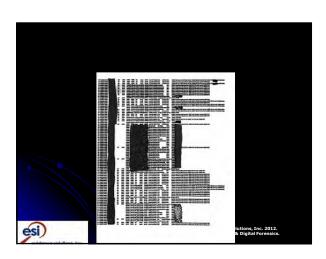


Request for Production No. 1: All information in your possession regarding your patient Jane Smith. This request is specifically intended to require production of information beyond what may be deemed the medical records or the "designated record set." In the event you maintain an electronic medical records system, this request for production is intended to require the production of every possible data set (or categories of data) that your electronic medical record system can provide. In the event you claim that information in your possession is privileged or work product, provide a privilege log specifying the privileged items.

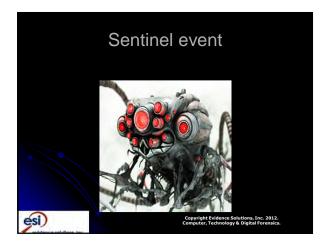
What to Ask for? • No. 2: The print screen of Defendant's EMR computer system that provides the data sets that Defendant may select for printing of Plaintiff's medical records. • No. 3: Any Room Activity Report, Detailed Room Activity Report, and/or any report documenting any visit by hospital personnel or health care providers to decedent/patient's room or that tracks the location and timing of decedent/patient in the hospital



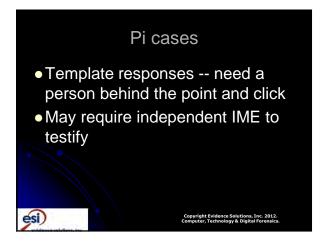


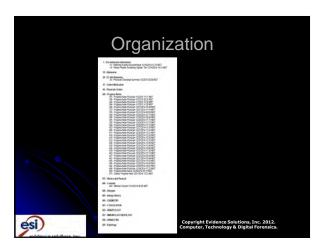


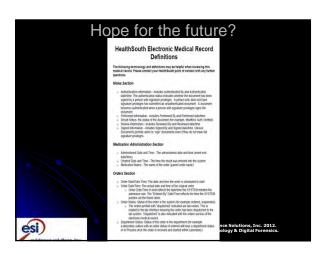
EMR: Causing Medical Errors Order entry errors Medication errors Communication errors Follow up errors System errors



"Incorrect or miscommunicated information entered into health IT systems may result in adverse events. In some cases, interfaces built into the technology contribute to the events."







Doctor's Company: ehr are causing medical errors	
 Analysis of EHR Contributing Factors in 	
Medical Professional Liability Claims	
Drugs: mistakes in patient receiving	
correct drug because of autofill	
mistakes. Flomax instead of Flonase. Mistake in failing to alert of drug	
interactions. Mistakes in dosage.	
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Computer, Lectinology & Digital Porensics.	
Doctor's Company: ehr are causing medical errors	
 Analysis of EHR Contributing Factors in Medical Professional Liability Claims 	
Drop Down Menu Limitations: not	
including enough information, including	-
who present during procedures.	
• Copy and Paste: History and	
physical copied and pasted without	
including new information. TB child	
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Doctor's Company: ehr are causing medical errors	
 Analysis of EHR Contributing Factors in 	
Medical Professional Liability Claims	
Lack of Physician training: Not	
seeing available data, including radiology. OB no see U/S; GYN no	
see recent CT.	
Alerts: Failure of system to transmit	
data to caregivers, including critical	
value alerts	
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